someday starts today

2017 ANNUAL REPORT THE PNC FINANCIAL SERVICES GROUP



The PNC Financial Services Group, Inc. Financial Highlights

Year ended December 31 In millions, except per share dat

In millions, except per share data			
	2017	2016	2015
FINANCIAL RESULTS			
Net interest income	\$ 9,108	\$ 8,391	\$ 8,278
Noninterest income	7,221	6,771	6,947
Total revenue	16,329	15,162	15,225
Noninterest expense	10,398	9,476	9,463
Pretax, pre-provision earnings (non-GAAP)	5,931	5,686	5,762
Provision for credit losses	441	433	255
Income taxes	102	1,268	1,364
Net income	\$ 5,388	\$ 3,985	\$ 4,143
PER COMMON SHARE			
Diluted earnings	\$ 10.36	\$ 7.30	\$ 7.39
Cash dividends	2.60	2.12	2.01
Closing price	144.29	116.96	95.31
Book value	91.94	85.94	81.84
Tangible book value (non-GAAP)	72.28	67.26	63.65
BALANCE SHEET At year end			
Assets	\$ 380,768	\$ 366,380	\$ 358,493
Loans	220,458	210,833	206,696
Deposits	265,053	257,164	249,002
Shareholders' equity	47,513	45,699	44,710
Common shares outstanding	473	485	504
SELECTED RATIOS			
Return on average common shareholders' equity	12.09 %	8.85 %	9.50 %
Return on average assets	1.45	1.10	1.17
Net interest margin	2.87	2.73	2.74
Noninterest income to total revenue	44	45	46
Transitional Basel III common equity			
Tier 1 capital ratio	10.4	10.6	10.6
Pro forma fully phased-in Basel III common			
equity Tier 1 capital ratio (non-GAAP)	9.8	10.0	10.0

Tangible book value per common share calculated as tangible common shareholders' equity divided by period end common shares outstanding. Net interest margin calculated on a taxable-equivalent basis. See the Statistical Information (Unaudited) section in Item 8 of the accompanying 2017 Form 10-K for additional information.

Transitional Basel III common equity Tier 1 capital ratios were calculated using the regulatory capital methodologies, including phase-ins, applicable to PNC during 2017, 2016 and 2015 using the standardized approach. Pro forma fully phased-in Basel III common equity Tier 1 capital ratios were also calculated based on the standardized approach. See the capital ratios discussion in the Supervision and Regulation section of Item 1, the capital management discussion in the Risk Management section of Item 7 and the Statistical Information (Unaudited) section in Item 8 of the accompanying 2017 Form 10-K for additional information.

These Financial Highlights should be read in conjunction with disclosures in the accompanying 2017 Form 10-K, including the audited financial statements. Certain prior period amounts have been reclassified to conform with the current period presentation.

We all have hopes and dreams. Someday I'll buy that car or that house. Someday we'll start a family. Someday the kids will go to college. Someday we'll open a small business ... or grow a small business into a big one. Someday we'll have enough to retire, to travel the world, to really enjoy life.

The difference between those who just dream about someday and those who actually achieve their dreams is in what they choose to do today.

At PNC, we work to understand our customers' dreams, to help them turn their dreams into plans, and to walk alongside them through every stage of life. We're there when they need us, and we're there when they begin to think about what they might need down the road. Because, no matter where our customers are or how big their dreams may be, the journey to **SOMEDAY STARTS TODAY**.

DEAR SHAREHOLDER,



PNC had a successful year in 2017. We grew revenue, loans and deposits, and we deepened relationships with our customers as we helped them achieve their financial goals. We enhanced our product and service offerings, maintained our risk profile, and executed on our strategic priorities. For the full year, PNC reported record net income of \$5.4 billion, or \$10.36 per diluted common share. Our return on average assets was 1.45 percent, and our return on average common equity was 12.09 percent.

As an industry, we began 2017 with hopes for an improving interest rate environment, along with regulatory and tax reform. We did see three interest rate increases, which helped to lift PNC's net interest income by 9 percent for the year despite a flattening yield curve and rates that are still low by historical standards. Our net interest margin increased meaningfully by 14 basis points to 2.87 percent in 2017.

Our results benefited from new federal tax legislation signed into



law in December. We recognized an income tax benefit of \$1.2 billion, primarily attributable to the revaluation of deferred tax liabilities at the lower statutory tax rate.

Even without the tax benefit, our underlying business performance was strong in 2017. We grew loans by \$9.6 billion, or 5 percent, and deposits by \$7.9 billion, or 3 percent. We added customers across our businesses. And total revenue increased \$1.2 billion, or 8 percent, driven by the growth in net interest income as well as record fee income for the year, which grew 7 percent over 2016.

Expenses were up year over year in 2017, reflecting more business activity and ongoing investments in our businesses. However, they increased less than revenues, and we were able to achieve positive operating leverage as a result. As we begin 2018, we remain focused on disciplined expense management throughout the organization.

THE BENEFITS OF TAX REFORM

The tax legislation enacted in December gives us increased flexibility as we continue to invest in our businesses, people and communities.

Upon news that the legislation had been signed by the president, PNC announced a number of important investments.





We continued to invest in our employees by providing a \$1,500 credit to the pension accounts of employees who participate in the PNC pension plan. Additionally, for about 90 percent of our approximately 53,000 employees, we announced a one-time cash payment of \$1,000. We also announced plans to raise our minimum hourly pay rate to \$15 for eligible employees by the end of 2018. Collectively, our investment in the careers of our lowerpaid employees has reduced turnover substantially over the last year. We believe employee engagement and retention are key to delivering a superior customer experience.

For our communities, we made a \$200 million contribution to the PNC Foundation, which oversees our work on early childhood education as well as our support for other important causes that help our communities thrive, including the arts, culture and our partnership with United Way.

RETURNING CAPITAL AND CREATING LONG-TERM VALUE FOR OUR SHAREHOLDERS

Shareholders' equity increased 4 percent to \$47.5 billion at year end 2017 compared with 2016, and our strong capital position gives us flexibility going forward. Share repurchases totaled 18.6 million common shares for \$2.3 billion, and we paid \$1.3 billion in common stock dividends, including raising the quarterly dividend on our common stock to 75 cents per share in the third quarter.

PNC continued to grow tangible book value in 2017 to \$72.28 per common share as of December 31, an increase of 7 percent over the prior year.

And, PNC stock reached an alltime-high share price in 2017. As of December 31, 2017, PNC's five-year annualized total shareholder return was 23 percent.

MUCH TO CELEBRATE HEADING INTO 2018

By virtually all measures, 2017 was a good year for PNC. Beyond the financials, we received a first-place ranking in the J.D. Power 2017 National Bank Satisfaction Study, which provides a comprehensive view of retail customer experiences with all bank product lines and channels at the six largest national banks.

We earned the No. 2 ranking among superregional banks on *FORTUNE* magazine's list of the Most Admired Companies for 2018.

And, PNC received a number of awards throughout 2017 for the work we've done to build a talent culture defined by our values and focused on assembling high-performing, diverse teams; establishing a welcoming and inclusive environment; and creating





career paths that offer every employee an opportunity to develop and grow within the organization.

BUT WE ARE NOT RESTING ON OUR LAURELS

We have delivered through time for our shareholders, customers, communities and employees because we are steadfastly committed to three things: doing right by the people we serve, building strong and lasting relationships, and working each day to be better at what we do. Those are simple concepts, really, but they require discipline. It takes knowing what we're working toward, knowing how we're going to get there and then executing with intense focus.

At PNC, we are making progress on our three strategic priorities with a lot of near-term actions underway to help us achieve them:

1. Expanding our leading banking franchise to new markets and digital platforms

In recent years, we have worked to build our business in the Southeast atop the retail branch network we acquired from RBC Bank (USA) in 2012 and using the Regional Presidents model that has been so successful for PNC in the markets where we've operated for decades. We continue to be pleased with the growth of our business across the Southeast, and we have learned important lessons about our ability to grow in markets where we do not have a robust retail branch presence.

Last year, that led our Corporate & Institutional Bank (C&IB) to expand our middle market banking business to three new markets — Dallas, Kansas City and Minneapolis — where our national businesses like Commercial Real Estate and Business Credit were operating with existing employees. As part of our multi-year expansion, we are working to build or grow relationships with best-in-class companies by proactively offering ideas that create value for them. We are now delivering our full suite of commercial products and services to new middle market and larger clients and embedding ourselves in those communities. And, based on our early success, we are now actively expanding our middle market franchise into Denver, Houston and Nashville.

Through time, we will evaluate the potential benefits of opening retail branches in these markets. Studies have shown that the fastest-growing consumer segment is thin-branchready, meaning they place importance on a branch but use it infrequently. Across our existing retail footprint, PNC has one of the country's largest branch and ATM networks but, as customers have demonstrated their increasing preference for mobile and self-service channels. we have reduced our branch network by about 15 percent over the last five years. The expense savings we have generated have been reinvested in technology.

Keeping our customers at the forefront of our thinking throughout this transformation effort has enabled us to retain 98 percent of households and 97 percent of deposits from closed branches, and customer satisfaction across our network remains high.

In the J.D. Power 2017

National Bank Satisfaction Study

among superregional banks on FORTUNE magazine's list of the Most Admired Companies for 2018



of consumer customers primarily digital vs. 35% five years ago

Our branches and the people in them will always be an important part of our retail bank. But with more than 60 percent of the 8 million consumer customers we serve now identified as primarily digital, the pace at which digital sales are growing signifies tremendous opportunity. So, as this year unfolds, you can expect to hear about our efforts to expand the reach of our retail bank nationally on a primarily digital platform.

2. Deepening customer relationships by delivering a superior banking experience and financial solutions

When it comes to the experience whether in the branch, over the phone, through our digital products and services, or in the field — customers expect us to make it easy. They want options that enable them to engage with us when, where and how they choose. They want the experience to be seamless, especially as they move across our channels.

We are making important investments in our relationships with our customers and how we serve them to make banking and investing easier. Across our lines of business, we are working to simplify our business model in ways that enable our employees to better focus on understanding our customers' needs and exceeding their expectations. We are transitioning all of our lines of business to a single customer relationship management platform that will make it easier for us to see and better service the whole relationship over time. We also are investing for constant improvement across our product and service offerings.

In C&IB, for example, we announced the acquisitions in 2017 of ECN's U.S.-based commercial and vendor finance business, the Trout Group, and Fortis Advisors in order to bolster our existing capabilities. And, we launched new products and services, including real-time payments (RTP). RTP is enabling clients to conduct business with greater speed, efficiency and security as it makes everyday financial tasks such as paying bills, issuing invoices, making payroll or settling insurance claims faster, safer and more satisfying for businesses and consumers.

Within our Asset Management Group (AMG), we have real advantages by which to grow the business, including our retail and commercial customer base, a well-recognized brand, a solid record of risk management, and a broad product suite. As we enter 2018, we are investing to offer more products and services, innovate, and — importantly — attract and retain the best talent, all for the purpose of delivering superior client experiences. Keeping our customers at the forefront of our thinking throughout this transformation effort has enabled us to retain 98 percent of households and 97 percent of deposits from closed branches, and customer satisfaction across our network remains high. Because of the work we have done to modernize our data centers and build a private cloud, we are now able to analyze data in ways we never could before.

Inside our Retail Bank, we have focused significant efforts this past year on improving the quality of our credit product offerings. And, we have made terrific progress on our multi-year initiative to redesign the home lending process by combining mortgage and home equity lending on a common platform. Our new platform for mortgage originations and servicing is now up and running.

3. Leveraging technology to innovate and enhance products, services, security and processes

Within Retail and beyond, we are meeting customers where they are and providing tools for how they want to bank through our investments in digital technologies. In recent years, we have made major investments to bolster our infrastructure. We have now reached a point at which these investments are beginning to power significant enhancements in the products and services our customers want.

Because of the work we have done to modernize our data centers and build a private cloud, we are now able to analyze data in ways we never could before. We are gaining important insight into how our customers use our products and services, which is helping us to better meet their financial needs, as well as their evolving service and digital experience expectations. Additionally, our services are more stable and more secure. The agile development approach we are adopting has resulted in about a one-third reduction in the time it takes to release a new product or enhancement, which is incredibly important given the increasing pace at which our customers are adopting digital products and services.

Consider that, in July 2017, we launched enhancements to our digital direct auto application process to make it simpler and to optimize it for mobile devices, and for the third and fourth guarters, 44 percent of all direct auto loan applications came through our digital channels. Similarly, credit card and installment loan applicants are coming to us online at an increasing pace. Customers continue to embrace e-statement, online bill pay and mobile deposit services. And, we recently launched a new version of our popular Virtual Wallet personal checking account app for online and mobile users that is simpler, faster and boasts smart new features.

Our mobile offerings now include PNC Pay and Zelle, which are changing the way customers make payments in real time. PNC Pay is integrated in our mass market mobile application so that customers can use credit, debit or prepaid cards to make instant purchases more securely. And Zelle

INCREASED TOTAL DEVELOPMENT AND APPLICATION WORKLOAD

10%

is now available on both the Virtual Wallet and mass market mobile apps, providing a faster, more secure and convenient way to exchange money with customers at a growing number of financial institutions using a registered mobile phone number or email address. With Zelle, we have seen the fastest adoption of any new digital service we have ever launched.

All of these and our many other digital products and services require continual updating to enhance features for a better customer experience and to keep up with the latest best practices in cybersecurity and fraud prevention. We invest heavily in our cybersecurity efforts, most of which happen behind the scenes, but we also are making important investments in security and fraud prevention features such as multi-factor authentication, fingerprint verification and facial recognition to help keep our customers' sensitive financial information and assets safe and secure.

In 2018, we are leveraging application programming interfaces, known as APIs, to create consumable digital services by which PNC is extending its core business processes and data beyond the walls of a traditional bank to enhance the quality and value of our client interactions, expand our capacity for innovation internally and with partners, and explore opportunities



5.4 in grants through Grow Up Great®



PNC employees volunteered in ways big and small across our communities while also helping to raise more than \$8.3 million for United Way.

created by an evolving ecosystem to redefine business models. And, we expect to further improve both the banking experience and the efficiency of our operations with investments in artificial intelligence and robotics, which promise reduced instances of human error and greater speed of fulfillment in service of our customers.

DOING RIGHT BY OUR PEOPLE AND **DOING GOOD IN OUR COMMUNITIES**

In addition to the steps we took on behalf of employees at the end of the year, throughout 2017 we continued to build on investments we have been making for a number of years to enhance benefits and compensation in order to make PNC an employer of choice for top talent and to make managers throughout the organization more accountable not only for the performance of their teams, but also for the career development of the people they lead.

In September, I announced to employees that beginning this year PNC would introduce a \$2,000 minimum earnings credit to the PNC pension plan. We announced higher health savings account contributions to employees under certain income levels. We made the decision to absorb the rising cost of health insurance so that employees would see no increase in their per-pay healthcare premiums from 2017 to 2018. And, we

increased vacation eligibility, expanded bereavement leave, and promoted additional financial education programs to help our employees achieve greater financial well-being.

In our communities, PNC played an important role above and beyond most years as Hurricanes Harvey and Irma caused billions of dollars in damages in markets that we serve and where we have both employees and customers. In response, PNC waived certain fees and contributed more than \$900,000 in disaster relief, including matching gifts to encourage employee donations.

Across our markets, PNC provided more than \$2.9 billion in financing that benefited low- and moderate-income families and communities, including nearly \$2 billion in community development loans. The PNC Foundation and PNC Bank provided \$72 million in charitable giving and sponsorships, the majority of which supports education, the arts and economic development.

And our signature philanthropic effort, PNC Grow Up Great, continues to open doors and create paths to quality early childhood education. In 2017, the PNC Foundation distributed \$15.4 million in grants through Grow Up Great, and we launched an important partnership with DonorsChoose.org, funding hundreds of pre-K classroom requests as



Start Your Engines

Just a few weeks into 2018. PNC marked the beginning of an exciting new partnership as we announced our sponsorship of the No. 9 Honda IndyCar, owned by Chip Ganassi Racing. Ganassi; IndyCar's winningest active driver, Scott Dixon; PNC CEO Bill Demchak; and PNC Regional President Connie Bond Stuart were on hand at the Indianapolis Motor Speedway on February 6 to announce PNC's first primary sponsorship on the IndyCar race circuit and to unveil the new design for the car. Throughout the 2018 IndyCar season, Dixon will drive the No. 9 car and wear PNC colors in 17 races across the country. He also will make appearances on behalf of PNC in many of our markets on the circuit. At the announcement, Dixon said that he is looking forward to representing the PNC brand, engaging with PNC clients and getting involved as an active partner with PNC Grow Up Great. (Photo: Courtesy AJ Mast/AP Image Services for PNC Bank)

part of a new \$5 million initiative to address some of the most pressing needs identified by early childhood education professionals.

Additionally, PNC employees volunteered in ways big and small across our communities while also helping to raise more than \$8.3 million for the United Way.

You can read much more about our community support in the 2017 PNC Corporate Social Responsibility report when it is published on PNC.com in early April.

SOMEDAY STARTS TODAY

We have a lot to be proud of as we look at what we accomplished in 2017, and we have much to be excited about as 2018 begins. For the first time in a long time, as an industry we are operating in an environment with wind in our sails. The economy is strong, and confidence remains high among both consumers and business leaders.

There are tremendous opportunities in front of us, and PNC is wellpositioned to grow and deepen relationships with our customers as a result of the investments we have been making in our business, products, services, communities and people. We have significant challenges ahead as competition intensifies and as both technology and consumer behaviors continue to evolve.

I am excited about the team I have the privilege to lead, the things we will accomplish together in the year ahead and all of the "someday" dreams we will help our customers achieve.

I'd like to thank the employees who worked so hard on behalf of our customers, communities and ultimately — our shareholders in 2017. I'd like to also thank our board of directors and the members of the PNC Executive Committee for their vision and leadership. And to that end, I'd like to acknowledge four retiring members of our board — Kay Coles James, Jane Pepper, Lorene Steffes and Dennis Strigl — along with Orlando Esposito, who is retiring as head of our Asset Management Group, for their years of service and dedication to PNC, its values and the people we serve.

Finally, thank you for your continued investment and trust in our company.

Sincerely,

Bill Dencht

William S. Demchak Chairman, President and Chief Executive Officer

For more information regarding certain factors that could cause future results to differ, possibly materially, from historical performance or from those anticipated in forward-looking statements, see the Cautionary Statement in Item 7 of our 2017 Form 10-K, which accompanies this letter. For additional information regarding PNC's Peer Group, see Item 5 of the accompanying 2017 Form 10-K, and for additional information on PNC's fee income and tangible book value, which are non-GAAP financial measures, see the Statistical Information (Unaudited) section in Item 8 of the accompanying 2017 Form 10-K.

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, DC 20549

FORM 10-K

Annual Report Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

For the fiscal year ended December 31, 2017 Commission file number 001-09718

THE PNC FINANCIAL SERVICES GROUP, INC.

(Exact name of registrant as specified in its charter)

Pennsylvania

25-1435979

(State or other jurisdiction of incorporation or organization)

(I.R.S. Employer Identification No.)

The Tower at PNC Plaza **300 Fifth Avenue** Pittsburgh, Pennsylvania 15222-2401

(Address of principal executive offices, including zip code)

Registrant's telephone number, including area code - (888) 762-2265

Securities registered pursuant to Section 12(b) of the Act:

Title of Each Class

Common Stock, par value \$5.00 Depositary Shares Each Representing a 1/4,000 Interest in a Share of Fixed-to-Floating Rate Non-Cumulative Perpetual Preferred Stock, Series P Depositary Shares Each Representing a 1/4,000 Interest in a Share of 5.375% Non-Cumulative Perpetual Preferred Stock, Series Q

Warrants (expiring December 31, 2018) to purchase Common Stock

Name of Each Exchange on Which Registered New York Stock Exchange New York Stock Exchange

New York Stock Exchange

New York Stock Exchange

Securities registered pursuant to Section 12(g) of the Act: \$1.80 Cumulative Convertible Preferred Stock - Series B, par value \$1.00

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes X No ____

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act. Yes No X

Indicate by check mark whether the registrant: (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes X No ____

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes X No

Indicate by check mark if the disclosure of delinquent filers pursuant to Item 405 of Regulation S-K is not contained herein, and will not be contained, to the best of registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendment to this Form 10-K. Х

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of "large accelerated filer", "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer X Non-accelerated filer ____

Accelerated filer Smaller reporting company ____ Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act. \Box

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Act). Yes __ No X

The aggregate market value of the registrant's outstanding voting common stock held by nonaffiliates on June 30, 2017, determined using the per share closing price on that date on the New York Stock Exchange of \$124.87, was approximately \$59.8 billion. There is no non-voting common equity of the registrant outstanding.

Number of shares of registrant's common stock outstanding at February 9, 2018: 471,590,384

DOCUMENTS INCORPORATED BY REFERENCE

Portions of the definitive Proxy Statement of The PNC Financial Services Group, Inc. to be filed pursuant to Regulation 14A for the 2018 annual meeting of shareholders (Proxy Statement) are incorporated by reference into Part III of this Form 10-K.

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PART I

Forward-Looking Statements: From time to time, The PNC Financial Services Group, Inc. has made and may continue to make written or oral forward-looking statements regarding our outlook for earnings, revenues, expenses, capital and liquidity levels and ratios, asset levels, asset quality, financial position and other matters regarding or affecting us and our future business and operations or the impact of legal, regulatory or supervisory matters on our business operations or performance. This Annual Report on Form 10-K (the Report or Form 10-K) also includes forward-looking statements. With respect to all such forward-looking statements, you should review our Risk Factors discussion in Item 1A, our Risk Management, Critical Accounting Estimates and Judgments, and Cautionary Statement Regarding Forward-Looking Information sections included in Item 7, and Note 19 Legal Proceedings in the Notes To Consolidated Financial Statements included in Item 8 of this Report. See page 73 for a glossary of certain terms used in this Report. In this Report, "PNC", "we", "us", "the Company" or "the Corporation" refers to The PNC Financial Services Group, Inc. and its subsidiaries on a consolidated basis (except when referring to PNC as a public company, its common stock or other securities issued by PNC, which just refer to The PNC Financial Services Group, Inc.). References to The PNC Financial Services Group, Inc. or to any of its subsidiaries are specifically made where applicable.

ITEM 1 – BUSINESS

Business Overview

Headquartered in Pittsburgh, Pennsylvania, we are one of the largest diversified financial services companies in the United States. We have businesses engaged in retail banking, including residential mortgage, corporate and institutional banking and asset management, providing many of our products and services nationally. Our primary geographic markets are located in 19 states in the Mid-Atlantic, Midwest and Southeast. We also provide certain products and services internationally. At December 31, 2017, our consolidated total assets, total deposits and total shareholders' equity were \$380.8 billion, \$265.1 billion and \$47.5 billion, respectively.

We were incorporated under the laws of the Commonwealth of Pennsylvania in 1983 with the consolidation of Pittsburgh National Corporation and Provident National Corporation. Since 1983, we have diversified our geographical presence, business mix and product capabilities through internal growth, strategic bank and non-bank acquisitions and equity investments, and the formation of various non-banking subsidiaries.

Review of Business Segments

In addition to the following information relating to our businesses, we incorporate the information under the caption Business Segments Review in Item 7 of this Report here by reference. Also, we include the financial and other information by business in Note 22 Segment Reporting in the Notes To Consolidated Financial Statements in Item 8 of this Report here by reference.

Effective for the first quarter of 2017, as a result of changes to how we manage our businesses, we realigned our segments and, accordingly, changed the basis of presentation of our segments, resulting in four reportable business segments:

- Retail Banking
- Corporate & Institutional Banking
- Asset Management Group
- BlackRock

See the Business Segments Review section in Item 7 for additional detail on our first quarter 2017 change.

Assets, revenue and earnings attributable to foreign activities were not material in the periods presented. We periodically refine our internal methodologies as management reporting practices are enhanced. To the extent significant and practicable, retrospective application of new methodologies is made to prior period reportable business segment results and disclosures to create comparability with the current period. See Note 22 Segment Reporting in the Notes To Consolidated Financial Statements in Item 8 of this Report for information on adjustments made in the first quarter of 2017 to our internal funds transfer pricing methodology.

Retail Banking provides deposit, lending, brokerage, insurance services, investment management and cash management products and services to consumer and small business customers within our primary geographic markets. Our customers are serviced through our branch network, ATMs, call centers, online banking and mobile channels. The branch network is located primarily in Pennsylvania, Ohio, New Jersey, Michigan, Illinois, Maryland, Indiana, Florida, North Carolina, Kentucky, Washington, D.C., Delaware, Virginia, Georgia, Alabama, Missouri, Wisconsin and South Carolina. Deposit products include checking, savings and money market accounts and certificates of deposit. Lending products include residential mortgages, home equity loans and lines of credit, auto loans, credit cards, education loans and personal and small business loans and lines of credit. The residential mortgage loans are directly originated within our branch network and nationwide, and are typically underwritten to government agency and/or third-party standards, and either sold, servicing retained, or held on our balance sheet. Brokerage, investment management and cash management products and services include managed, education, retirement and trust accounts.

Our core strategy is to acquire and retain customers who maintain their primary checking and transaction relationships with us. We also seek to deepen relationships by meeting the broad range of our customers' financial needs with savings, liquidity, lending, investment and retirement solutions. A strategic priority for us is to reinvent the retail banking experience in response to changing customer preferences. A key element of this strategy is to expand the use of lower-cost alternative distribution channels, with an emphasis on digital capabilities, while continuing to optimize the traditional branch network. In addition, we have a disciplined process to continually improve the engagement of both our employees and customers, which is a strong indicator of customer growth, retention and relationship expansion.

Corporate & Institutional Banking provides lending, treasury management, and capital markets-related products and services to mid-sized and large corporations, and government and not-for-profit entities. Lending products include secured and unsecured loans, letters of credit and equipment leases. Treasury management services include cash and investment management, receivables management, disbursement services, funds transfer services, information reporting and global trade services. Capital markets-related products and services include foreign exchange, derivatives, securities underwriting, loan syndications, mergers and acquisitions advisory and equity capital markets advisory related services. We also provide commercial loan servicing and technology solutions for the commercial real estate finance industry. Products and services are provided nationally. We offer certain products and services internationally.

Corporate & Institutional Banking's strategy is to be the leading relationship-based provider of traditional banking products and services to its customers through the economic cycles. We aim to grow our market share and drive higher returns by delivering value-added solutions that help our clients better run their organizations, all while maintaining prudent risk and expense management.

Asset Management Group provides personal wealth management for high net worth and ultra high net worth clients and institutional asset management. Wealth management products and services include investment and retirement planning, customized investment management, private banking, tailored credit solutions, and trust management and administration for individuals and their families. Our Hawthorn unit provides multi-generational family planning including estate, financial, tax planning, fiduciary, investment management and consulting, private banking, personal administrative services, asset custody and customized performance reporting to ultra high net worth families. Institutional asset management provides advisory, custody and retirement administration services. The business also offers PNC proprietary mutual funds. Institutional clients include corporations, unions, municipalities, non-profits, foundations and endowments, primarily located in our geographic footprint.

Asset Management Group is focused on being a premier bankheld individual and institutional asset managers in each of the markets it serves. The business seeks to deliver high quality banking, trust and investment management services to our high net worth, ultra high net worth and institutional client sectors through a broad array of products and services. Asset Management Group's priorities are to serve our clients' financial objectives, grow and deepen customer relationships and deliver solid financial performance with prudent risk and expense management.

BlackRock, in which we hold an equity investment, is a leading publicly-traded investment management firm providing a broad range of investment, risk management and technology services to institutional and retail clients worldwide. Using a diverse platform of active and index investment strategies across asset classes, BlackRock develops investment outcomes and asset allocation solutions for clients. Product offerings include single- and multi-asset class portfolios investing in equities, fixed income, alternatives and money market instruments. BlackRock also offers an investment and risk management technology platform, risk analytics, advisory and technology services and solutions to a broad base of institutional and wealth management investors. Our equity investment in BlackRock provides us with an additional source of noninterest income and increases our overall revenue diversification. BlackRock is a publicly-traded company, and additional information regarding its business is available in its filings with the Securities and Exchange Commission (SEC).

<u>Subsidiaries</u>

Our corporate legal structure at December 31, 2017 consisted of one domestic subsidiary bank, including its subsidiaries, and approximately 50 active non-bank subsidiaries, in addition to various affordable housing investments. Our bank subsidiary is PNC Bank, National Association (PNC Bank), a national bank headquartered in Pittsburgh, Pennsylvania. For additional information on our subsidiaries, see Exhibit 21 to this Report.

Statistical Disclosure By Bank Holding Companies

The following statistical information is included on the indicated pages of this Report and is incorporated herein by reference:

	Form 10-K page
Average Consolidated Balance Sheet And Net Interest Analysis	158
Analysis Of Year-To-Year Changes In Net Interest Income	159
Book Values Of Securities	37 and 108-111
Maturities And Weighted-Average Yield Of Securities	37 and 110-111
Loan Types	36, 53, 98-99 and 160
Selected Loan Maturities And Interest Sensitivity	163
Nonaccrual, Past Due And Restructured Loans And Other Nonperforming Assets	53-59, 87-90, 97-105 and 161
Potential Problem Loans	53-59
Summary Of Loan Loss Experience	58-59, 106-107 and 162
Allocation Of Allowance For Loan And Lease Losses	58-59 and 162
Average Amount And Average Rate Paid On Deposits	158
Time Deposits Of \$100,000 Or More	163
Selected Consolidated Financial Data	28-29
Short-term Borrowings – not included as average balances during 2017, 2016, and 2015 were less than 30% of total shareholders' equity at the end of each period.	

Supervision and Regulation

The PNC Financial Services Group, Inc. is a bank holding company (BHC) registered under the Bank Holding Company Act of 1956 (BHC Act) and a financial holding company under the Gramm-Leach-Bliley Act (GLB Act).

We are subject to numerous governmental regulations, some of which are highlighted below. See Note 18 Regulatory Matters in the Notes To Consolidated Financial Statements in Item 8 of this Report for additional information regarding our regulatory matters. Applicable laws and regulations restrict our permissible activities and investments, impose conditions and requirements on the products and services we offer and the manner in which they are offered and sold, and require compliance with protections for loan, deposit, brokerage, fiduciary, investment management and other customers, among other things. They also restrict our ability to repurchase stock or pay dividends, or to receive dividends from our bank subsidiary, and impose capital adequacy and liquidity requirements. The consequences of noncompliance with these, or other applicable laws or regulations, can include substantial monetary and nonmonetary sanctions.

In addition, we are subject to comprehensive supervision and periodic examination by, among other regulatory bodies, the Board of Governors of the Federal Reserve System (Federal Reserve) and the Office of the Comptroller of the Currency (OCC). These examinations consider not only compliance with applicable laws, regulations and supervisory policies of the agency, but also capital levels, asset quality, risk management effectiveness, the ability and performance of management and the board of directors, the effectiveness of internal controls, earnings, liquidity and various other factors.

The results of examination activity by any of our federal bank regulators potentially can result in the imposition of significant limitations on our activities and growth. These regulatory agencies generally have broad discretion to impose restrictions and limitations on the operations of a regulated entity and take enforcement action, including the imposition of substantial monetary penalties and nonmonetary requirements, against a regulated entity where the relevant agency determines, among other things, that such operations fail to comply with applicable law or regulations or are conducted in an unsafe or unsound manner. This supervisory framework, including the examination reports and supervisory ratings (which are not publicly available) of the agencies, could materially impact the conduct, growth and profitability of our operations.

The Consumer Financial Protection Bureau (CFPB) is responsible for examining PNC Bank and its affiliates (including PNC) for compliance with most federal consumer financial protection laws, including the laws relating to fair lending and prohibiting unfair, deceptive or abusive acts or practices in connection with the offer, sale or provision of consumer financial products or services, and for enforcing such laws with respect to PNC Bank and its affiliates. The results of the CFPB's examinations (which are not publicly available) also can result in restrictions or limitations on the operations of a regulated entity as well as enforcement actions against a regulated entity, including the imposition of substantial monetary penalties and nonmonetary requirements.

We also are subject to regulation by the SEC by virtue of our status as a public company and by the SEC and the Commodity Futures Trading Commission (CFTC) due to the nature of some of our businesses. Our businesses with operations outside the United States are also subject to regulation by appropriate authorities in the foreign jurisdictions in which they do business.

As a regulated financial services firm, our relationships and good standing with regulators are of fundamental importance to the operation and growth of our businesses. The Federal Reserve, OCC, CFPB, SEC, CFTC and other domestic and foreign regulators have broad enforcement powers, and certain of the regulators have the power to approve, deny, or refuse to act upon our applications or notices to conduct new activities, acquire or divest businesses, assets or deposits, or reconfigure existing operations. Among the areas that have been receiving a high level of regulatory focus are compliance with the Bank Secrecy Act and anti-money laundering laws, capital and liquidity management, fair lending and other consumer protection issues, including retail sales practices, fee assessment and collection, cyber-security, capital planning and stress testing, the oversight of arrangements with third-party vendors and suppliers, the protection of confidential customer information, and the structure and effectiveness of enterprise risk management frameworks.

New legislation, changes in rules promulgated by federal financial regulators, other federal and state regulatory authorities and self-regulatory organizations, or changes in the interpretation or enforcement of existing laws and rules, may directly affect the method of operation and profitability of our businesses. We anticipate new legislative and regulatory initiatives over the next several years, focused specifically on banking and other financial services in which we are engaged. Legislative and regulatory developments to date, as well as those that come in the future, have had and are likely to continue to have an impact on the conduct of our business. The more detailed description of the significant regulations to which we are subject included in this Report is based on current laws and regulations and is subject to potentially material change. See also the additional information included as Risk Factors in Item 1A of this Report discussing the impact of financial regulatory initiatives on the regulatory environment for us and the financial services industry, including ongoing implementation of Dodd-Frank Wall Street Reform and Consumer Protection Act (Dodd-Frank) reforms.

The profitability of our businesses could also be affected by rules and regulations that impact the business and financial sectors in general, including changes to the laws governing taxation, antitrust regulation and electronic commerce.

In the fourth quarter of 2017, federal tax reform legislation, the Tax Cuts and Jobs Act, was enacted and, among other provisions, lowered the statutory tax rate for corporations to 21% from 35% effective January 1, 2018. PNC's consolidated financial statements for the fourth quarter and full year 2017 reflect reasonable estimates of the impact of the tax legislation as of December 31, 2017, and the amounts could be adjusted during the measurement period, which will end in December 2018. See the Critical Accounting Estimates and Judgments section in Item 7 of this Report for more detail.

There are numerous rules governing the regulation of financial services institutions and their holding companies. Accordingly, the following discussion is general in nature and does not purport to be complete or to describe all of the laws, regulations and supervisory policies that apply to us. To a substantial extent, the purpose of the regulation and supervision of financial services institutions and their holding companies is not to protect our shareholders and our noncustomer creditors, but rather to protect our customers (including depositors) and the financial markets and financial system in general.

Banking Regulation and Supervision

Regulatory Capital Requirements, Stress Testing and Capital Planning. PNC and PNC Bank are subject to the regulatory capital requirements established by the Federal Reserve and the OCC, respectively. The foundation of the agencies' regulatory capital rules is the international regulatory capital framework developed by the Basel Committee on Banking Supervision (Basel Committee), the international body responsible for developing global regulatory standards for banking organizations for consideration and adoption by national jurisdictions. The regulatory capital rules establish minimum requirements for the ratio of a banking organization's regulatory capital to its risk-weighted assets, referred to as risk-based capital requirements, as well as for the ratio of its regulatory capital to measures of assets and other exposures, referred to as leverage capital requirements. The agencies' regulatory capital rules have undergone significant change since 2013, when the agencies adopted final rules to implement changes to the Basel Committee's international regulatory capital framework, known as "Basel III", as well as certain provisions of Dodd-Frank. Many provisions of these rules, referred to as the Basel III capital rules, are subject to multi-year phase-in periods, with the rules generally fully phased-in as of January 1, 2019. Certain provisions (described below) of these rules apply only to banking organizations that have \$250 billion or more in total consolidated assets (such as PNC and PNC Bank) or that have \$10 billion or more in on-balance sheet foreign exposure (referred to as advanced approaches banking organizations).

The regulatory capital rules generally divide regulatory capital into three components: common equity tier 1 (CET1) capital, additional Tier 1 capital (which, together with CET1 capital, comprises Tier 1 capital) and Tier 2 capital. CET1 capital is generally common stock, retained earnings, qualifying minority interest and, for PNC and PNC Bank as advanced approaches banking organizations, accumulated other comprehensive income related to both available for sale securities and pension and other post-retirement plans, less the deductions required to be made from CET1 capital. Additional Tier 1 capital generally includes, among other things, perpetual preferred stock and qualifying minority interests, less the deductions required to be made from additional Tier 1 capital. Tier 2 capital generally comprises qualifying subordinated debt, less any required deductions from Tier 2 capital. There are significant limits on the extent to which minority interests in consolidated subsidiaries (including minority interests in the form of REIT preferred securities) may be included in regulatory capital.

Total capital is the sum of Tier 1 capital and Tier 2 capital, less the deductions required from total capital. Significant common stock investments in unconsolidated financial institutions, as well as mortgage servicing rights and deferred tax assets, must be deducted from CET1 regulatory capital (subject to a phasein schedule and net of associated deferred tax liabilities) to the extent such items individually exceed 10%, or in the aggregate exceed 15%, of our adjusted Basel III CET1 regulatory capital. Our common stock investment in BlackRock is treated as a significant common stock investment in an unconsolidated financial institution for these purposes.

The regulatory capital rules include a standardized approach for determining a banking organization's risk-weighted assets for purposes of calculating the risk-based capital ratios. To determine risk-weighted assets under the standardized approach, a banking organization must allocate its assets and specified off-balance sheet financial exposures and instruments into risk-weighted categories. The standardized approach for risk-weighted assets takes into account credit and market risk. To calculate risk-weighted assets under the standardized approach for credit risk, the nominal dollar amounts of assets and credit equivalent amounts of off-balance sheet items are generally multiplied by risk weights set forth in the rules, which increase as the perceived credit risk of the relevant asset or exposure increases. For certain types of exposures, such as securitization exposures, the standardized approach establishes one or more methodologies that are to be used to calculate the risk-weighted asset amount for the exposure. High volatility commercial real estate, past due, securitization and equity exposures, as well as investments in unconsolidated financial institutions, mortgage servicing rights and deferred tax assets that are not deducted from capital are generally subject to higher risk weights than other types of exposures.

Advanced approaches banking organizations (such as PNC and PNC Bank) are also required to calculate risk-weighted assets using a separate methodology, referred to as the advanced approaches, that is based on the Basel II capital framework. The Basel II framework, seeks to provide more risk-sensitive regulatory capital calculations and promote enhanced risk management practices among large, internationally active banking organizations. Advanced approaches risk-weighted assets take into account credit, market and operational risk and rely to a significant extent on internal models. Prior to fully implementing the advanced approaches to calculate risk-weighted assets, PNC and PNC Bank must successfully complete a "parallel run" qualification phase. PNC and PNC Bank entered this parallel run qualification phase on January 1, 2013. As discussed further in Item 1A Risk Factors of this Report, the Basel Committee in 2017 finalized additional, significant changes to the international capital framework for banking organizations. The extent to and manner in which these or similar changes would be implemented by the U.S. banking agencies, and the implications of any such developments on the U.S. regulatory capital framework (including the advanced approaches and the parallel run qualification period for PNC and PNC Bank) are not fully known at this time.

As a result of the phase-in period for provisions of the Basel III capital rules, as well as the fact that we remain in the parallel run qualification phase for the advanced approaches, our regulatory risk-based capital ratios in 2017 were based on the definitions of, and deductions from, regulatory capital (as such definitions and deductions were phased-in for 2017) and the standardized approach for determining risk-weighted assets. Until we have exited parallel run, our regulatory risk-

based capital ratios will be calculated using the standardized approach for determining risk-weighted assets, and the definitions of, and deductions from, capital (as such definitions and deductions are phased-in). Once we exit parallel run, our regulatory risk-based capital ratios will be the lower of the ratios calculated under the standardized approach and the advanced approaches. We refer to the capital ratios calculated using the phased-in Basel III provisions as the Transitional Basel III ratios. The Transitional Basel III regulatory capital ratios of PNC and PNC Bank as of December 31, 2017 exceeded the applicable minimum levels. For additional information regarding the Transitional Basel III capital ratios of PNC and PNC Bank as of December 31, 2017, as well as the levels needed to be considered "well capitalized", see the Liquidity and Capital Management portion of the Risk Management section of Item 7 of this Report.

The risk-based capital rules establish certain minimum standards for the capital ratios of banking organizations, including PNC and PNC Bank. Banking organizations must maintain a minimum CET1 ratio of 4.5%, a Tier 1 capital ratio of 6.0%, and a total capital ratio of 8.0%, in each case in relation to risk-weighted assets, to be considered "adequately capitalized." Banking organizations also must maintain a capital conservation buffer requirement above the minimum risk-based capital ratio requirements in order to avoid limitations on capital distributions (including dividends and repurchases of any Tier 1 capital instrument, such as common and qualifying preferred stock) and certain discretionary incentive compensation payments. The capital conservation buffer requirement is subject to a multi-year phase-in period. For 2018, banking organizations (including PNC and PNC Bank) are required to maintain a risk-based CET1 capital ratio of at least 6.375%, a Tier 1 capital ratio of at least 7.875%, and a total capital ratio of at least 9.875% to avoid limitations on capital distributions and certain discretionary incentive compensation payments. When fully phased-in on January 1, 2019, banking organizations must maintain a CET1 capital ratio of at least 7.0%, a Tier 1 capital ratio of at least 8.5%, and a total capital ratio of at least 10.5%, in each case in relation to risk-weighted assets, to avoid limitations on capital distributions and certain discretionary incentive compensation payments.

For advanced approaches banking organizations (such as PNC and PNC Bank), these higher capital conservation buffer levels above the regulatory minimums could be supplemented by a countercyclical capital buffer based on U.S. credit exposures of up to an additional 2.5% of risk-weighted assets (once fully phased-in). This buffer is currently set at zero in the U.S. A 2016 Federal Reserve policy statement establishes the framework and factors the Federal Reserve would use in setting and adjusting the amount of the U.S. countercyclical capital buffer. Covered banking organizations would generally have 12 months after the announcement of any increase in the countercyclical capital buffer to meet the increased buffer requirement, unless the Federal Reserve determines to establish an earlier effective date. Under the phase-in schedule for the countercyclical capital buffer, the maximum potential countercyclical capital buffer amount is 1.875% in 2018 and 2.5% in 2019 and thereafter. When fully phased-in and if the full countercyclical buffer amount is implemented, PNC and PNC Bank could be required to maintain a risk-based CET1 capital ratio of at least 9.5%, a Tier 1 capital ratio of at least 11%, and a total capital ratio of at least 13% to avoid limitations on capital distributions and certain discretionary incentive compensation payments.

PNC and PNC Bank are not subject to the additional riskbased CET1 capital surcharge, minimum long-term debt requirement, or minimum total loss-absorbing capacity (TLAC) requirement that applies to U.S. firms identified as globally systemically important banks (GSIBs).

The regulatory capital rules also require that banking organizations maintain a minimum amount of Tier 1 capital to average consolidated assets, referred to as the leverage ratio. Banking organizations are required to maintain a minimum leverage ratio of Tier 1 capital to total assets of 4.0%. As of December 31, 2017, the leverage ratios of PNC and PNC Bank were above the required minimum level.

Advanced approaches banking organizations (such as PNC and PNC Bank) also are subject to a minimum 3.0% supplementary leverage ratio that took effect on January 1, 2018. The supplementary leverage ratio is calculated by dividing Tier 1 capital by total leverage exposure, which takes into account on-balance sheet assets as well as certain offbalance sheet items, including loan commitments and potential future exposure under derivative contracts. BHCs with total consolidated assets of more than \$700 billion or assets under custody of more than \$10 trillion, as well as the insured depository institution subsidiaries of these BHCs, are subject to a higher supplementary leverage ratio requirement. These higher supplementary leverage requirements do not apply to PNC or PNC Bank.

Failure to meet applicable capital requirements could subject a banking organization to a variety of enforcement remedies available to the federal banking agencies, including a limitation on the ability to pay dividends or repurchase shares, the issuance of a capital directive to increase capital and, in severe cases, the termination of deposit insurance by the Federal Deposit Insurance Corporation (FDIC), and the appointment of a conservator or receiver. In some cases, the extent of these powers depends upon whether the institution in question is considered "well capitalized," "adequately capitalized," "undercapitalized," "significantly undercapitalized" or "critically undercapitalized." Generally, the smaller an institution's capital base in relation to its riskweighted or total assets, the greater the scope and severity of the agencies' powers. Business activities may also be affected by an institution's capital classification. For example, as a financial holding company, PNC and PNC Bank must remain "well capitalized." At December 31, 2017, PNC and PNC Bank exceeded the required ratios for classification as "well capitalized." The thresholds at which an insured depository institution is considered "well capitalized," "adequately capitalized," "undercapitalized," "significantly

undercapitalized" or "critically undercapitalized" are based on (i) the institution's CET1, Tier 1 and total risk-based capital ratios; (ii) the institution's leverage ratio; and (iii) for the definitions of "adequately capitalized" and "undercapitalized", the institution's supplementary leverage ratio. For additional discussion of capital adequacy requirements, see the Liquidity and Capital Management portion of the Risk Management section of Item 7 of this Report and to Note 18 Regulatory Matters in the Notes To Consolidated Financial Statements in Item 8 of this Report.

In addition to potential changes to the U.S. capital rules as a result of developments at the Basel Committee, the U.S. banking agencies also are undertaking a review of the regulatory capital rules. In September 2017, the banking agencies jointly requested public comment on a proposal that would implement certain changes to the Basel III regulatory capital rules. The proposal would reduce the risk weight (from 150 percent to 130 percent) for high-volatility commercial real estate exposures under the standardized approach, while also making certain changes to the definition of such exposures and relabeling such exposures as either high-volatility acquisition, development or construction exposures. For non-advanced approaches banking organizations, the proposal also would modify the threshold deductions from CET1 regulatory capital for significant common stock investments in unconsolidated financial institutions, mortgage servicing rights and certain deferred tax assets. The public comment period on the proposal closed on December 26, 2017.

In addition to regulatory capital requirements, we are subject to the Federal Reserve's capital plan rule, annual capital stress testing requirements and Comprehensive Capital Analysis and Review (CCAR) process, as well as the annual and mid-year Dodd-Frank capital stress testing (DFAST) requirements of the Federal Reserve (annual and mid-cycle) and the OCC (annual). As part of the CCAR process, the Federal Reserve undertakes a supervisory assessment of the capital planning process of BHCs, including PNC, that have \$50 billion or more in total consolidated assets. For us, this capital planning assessment is based on a review of a comprehensive capital plan submitted to the Federal Reserve that describes the company's planned capital actions, such as plans to pay or increase common stock dividends, reinstate or increase common stock repurchase programs, or issue or redeem preferred stock or other regulatory capital instruments, during the nine quarter review period, as well as the results of stress tests conducted by both the company and the Federal Reserve under different hypothetical macro-economic scenarios, including a supervisory adverse scenario and severely adverse scenario provided by the Federal Reserve. The Federal Reserve can object to our capital plan for qualitative or quantitative reasons. If the Federal Reserve objects to a BHC's capital plan, the BHC cannot make capital distributions without Federal Reserve approval.

In evaluating capital plans of advanced approaches BHCs (such as PNC) or BHCs with \$75 million or more in nonbank assets, the Federal Reserve considers a number of qualitative factors, which have become increasingly important in the

CCAR process in recent years. The Federal Reserve's supervisory expectations for the capital planning and stress testing processes at large and complex BHCs, including PNC, are heightened relative to smaller and less complex BHCs. In assessing a BHC's capital planning and stress testing processes, the Federal Reserve considers whether the BHC has sound and effective governance to oversee these processes. The Federal Reserve's evaluation focuses on whether a BHC's capital planning and stress testing processes are supported by a strong risk management framework to identify, measure and assess material risks and that provides a strong foundation to capital planning. The Federal Reserve also considers the comprehensiveness of a BHC's control framework and evaluates a BHC's policy guidelines for capital planning and assessing capital adequacy. A BHC's stress testing scenario design processes and approaches for estimating the impact of stress on its capital position, including stress testing models and non-model qualitative approaches, are comprehensively reviewed to ensure that projections reflect the impact of appropriately stressful conditions, as well as risks idiosyncratic to the BHC, on its capital position. Significant deficiencies in a BHC's capital planning and stress testing processes may result in a qualitative objection by the Federal Reserve to its capital plan.

From a quantitative perspective, the Federal Reserve considers whether under different hypothetical macro-economic scenarios, including the supervisory severely adverse scenario, the BHC would be able to maintain, throughout each quarter of the nine quarter review period, projected regulatory riskbased and leverage capital ratios that exceed the applicable minimums. In making these estimates, the Federal Reserve assumes that the BHC would continue its base case capital actions in each supervisory scenario, including the severely adverse scenario. Failure to meet a minimum regulatory riskbased or leverage capital requirement on a projected stress basis is grounds for objection to a BHC's capital plan.

In connection with the 2018 CCAR exercise, we must file our capital plan and stress testing results using financial data as of December 31, 2017 with the Federal Reserve by April 5, 2018. We expect to receive the Federal Reserve's response (either a non-objection or objection) to the capital plan submitted as part of the 2018 CCAR in June 2018.

As part of the CCAR and annual DFAST processes, both we and the Federal Reserve release certain revenue, loss and capital results from stress testing exercises. For the 2018 exercises, the Federal Reserve has announced that it intends to publish its supervisory revenue, loss and capital projections for participating BHCs under the supervisory adverse and severely adverse macro-economic scenarios using the common assumptions concerning capital distributions established by the Federal Reserve in its DFAST regulations (DFAST capital action assumptions), as well as capital ratio information using the company's proposed base case capital actions. Within 15 days of the Federal Reserve publishing its DFAST results, we also are required to publicly disclose our own estimates of certain capital, revenue and loss information under the same hypothetical supervisory severely adverse macro-economic scenario and applying the DFAST capital action assumptions.

Federal Reserve regulations also require that we and other large BHCs conduct a separate, mid-cycle stress test using financial data as of June 30 and three company-derived macroeconomic scenarios (base, adverse and severely adverse) and publish a summary of the results under the severely adverse scenario. For the 2018 mid-cycle stress test cycle, we must publish our results in the period between October 5 and November 4, 2018.

The Federal Reserve's capital plan rule provides that a BHC must resubmit a new capital plan prior to the annual submission date if, among other things, there has been or will be a material change in the BHC's risk profile, financial condition or corporate structure since its last capital plan submission. Under the "de minimis" safe harbor of the Federal Reserve's capital plan rule, we may make limited repurchases of common stock or other capital distributions in amounts that exceed the amounts included in our most recently approved capital plan subject to certain conditions, including that the Federal Reserve does not object to the additional repurchases or distributions. Such additional distributions may not exceed, in the aggregate, 0.25% of Tier 1 capital during the relevant 12-month period.

Regulatory Liquidity Standards and Liquidity Risk

<u>Management Requirements</u>. The Basel Committee's Basel III framework included short-term liquidity standards (Liquidity Coverage Ratio or LCR) and long-term funding standards (Net Stable Funding Ratio or NSFR).

The U.S. banking agencies' LCR rules are designed to ensure that covered banking organizations maintain an adequate level of cash and high quality, unencumbered liquid assets (HQLA) to meet estimated net liquidity needs in a short-term stress scenario using liquidity inflow and outflow assumptions prescribed in the rules (net cash outflow). A company's LCR is the amount of its HQLA, as defined and calculated in accordance with the haircuts and limitations in the rule, divided by its net cash outflows, with the quotient expressed as a percentage. The regulatory minimum LCR that covered banking organizations are required to maintain is 100%. As of December 31, 2017, the LCR for PNC and PNC Bank exceeded the fully phased-in requirement of 100%.

Top-tier BHCs (like PNC) that are subject to the advanced approaches for regulatory capital purposes, as well as any subsidiary depository institution of such a company that has \$10 billion or more in total consolidated assets (such as PNC Bank), are subject to the full LCR (rather than the less stringent modified LCR). PNC and PNC Bank are required to calculate the LCR on a daily basis. Under the full LCR, an institution required to calculate the LCR on a daily basis must promptly provide its regulator with a plan for achieving compliance with the minimum LCR requirement if its LCR is below the minimum requirement for three consecutive business days. The Federal Reserve requires large BHCs, including PNC, to publicly disclose certain quantitative and qualitative measures of their LCR-related liquidity profile. These disclosures include major components used to calculate the LCR (*e.g.*, HQLA, cash outflows and inflows for the consolidated parent company), and a qualitative discussion of the BHC's LCR results, including, among other things, key drivers of the results, composition of HQLA and concentration of funding sources. We are required to make these disclosures starting with the second quarter of 2018.

The NSFR is designed to promote a stable maturity structure of assets and liabilities of banking organizations over a oneyear time horizon. In 2016, the federal banking agencies requested comment on proposed rules that would implement the NSFR in the United States. The proposed rules would require a covered BHC to calculate its NSFR as the ratio of its available stable funding (ASF) to its required stable funding (RSF) amount, each as defined in the proposed rules, over a one-year horizon. The regulatory minimum ratio for all covered banking organizations is 100%. For BHCs with assets of \$50 billion or more, but less than \$250 billion, and onbalance sheet foreign exposure of less than \$10 billion, the RSF amount is scaled by a factor of 70%. The proposal also includes requirements for quarterly quantitative and qualitative NSFR disclosures. Although the impact on us will not be fully known until the rules are finalized, we have taken several actions to prepare for implementation of the NSFR and we expect to be in compliance with the NSFR requirements if and when they become effective.

PNC is also subject to Federal Reserve rules that require BHCs with \$50 billion or more in consolidated total assets to, among other things, conduct internal liquidity stress tests over a range of time horizons, maintain a buffer of highly liquid assets sufficient to meet projected net outflows under the BHC's 30-day liquidity stress test, and maintain a contingency funding plan that meets detailed requirements.

For additional discussion of regulatory liquidity requirements, please refer to the Liquidity and Capital Management portion of the Risk Management section of Item 7 of this Report.

Source of Parent Company Liquidity and Dividends. The principal source of our liquidity at the parent company level is dividends from PNC Bank. PNC Bank is subject to various restrictions on its ability to pay dividends to PNC Bancorp, Inc., its direct parent, which is a wholly-owned direct subsidiary of The PNC Financial Services Group, Inc. PNC Bank is also subject to federal laws limiting extensions of credit to its parent holding company and non-bank affiliates as discussed in Note 18 Regulatory Matters in the Notes To Consolidated Financial Statements in Item 8 of this Report. Further information on bank level liquidity and parent company liquidity is also available in the Liquidity and Capital Management portion of the Risk Management section of Item 7 of this Report Federal Reserve rules provide that a BHC is expected to serve as a source of financial strength to its subsidiary banks and to commit resources to support such banks if necessary. Dodd-Frank requires that the Federal Reserve jointly adopt new rules with the OCC and the FDIC to implement this source of strength requirement. These joint rules have not yet been proposed. Consistent with this source of strength policy for subsidiary banks, the Federal Reserve has stated that, as a matter of prudent banking, a BHC generally should not maintain a rate of cash dividends unless its net income available to common shareholders has been sufficient to fully fund the dividends and the prospective rate of earnings retention appears to be consistent with the corporation's capital needs, asset quality and overall financial condition. Further, in providing guidance to the large BHCs participating in the 2018 CCAR, discussed above, the Federal Reserve stated that it expects capital plans submitted in 2018 to reflect conservative dividend payout ratios, and that requests that imply common dividend payout ratios above 30% of projected after-tax net income available to common shareholders will receive particularly close scrutiny.

Enhanced Prudential Requirements. Under Federal Reserve rules, PNC (and other BHCs with total consolidated assets of \$50 billion or more) are subject to enhanced prudential standards related to liquidity risk management and overall risk management. These rules, among other things, establish liquidity stress testing requirements (described further below) and certain oversight and governance responsibilities for the chief risk officer, the board of directors, and the risk committee of the board of directors of a covered company. These standards also require the Federal Reserve to impose a maximum 15-to-1 debt to equity ratio on a BHC, if the federal agencies that comprise the Financial Stability Oversight Council (FSOC), determine that the company poses a grave threat to the financial stability of the United States and that the imposition of such a debt-to-equity requirement would mitigate such risk.

The Federal Reserve is also required to establish single counterparty credit limits and early remediation requirements for BHCs with more than \$50 billion in total assets. The Federal Reserve requested comment on proposed rules to implement a single counterparty credit limit in March 2016. Under those rules, the aggregate net credit exposure by PNC, to any single, unaffiliated counterparty, including its subsidiaries, would have to be calculated on a daily basis and could not exceed 25 percent of our Tier 1 capital. The proposed limit would cover credit exposure resulting from, among other transactions, extensions of credit, repurchase and reverse repurchase transactions, purchases or investments in securities, and derivative transactions, although certain exposures, including, among others, exposures to the U.S. government, would be excluded. Compliance with the proposed rules would be required one year after the effective date. The proposed rule, if finalized, would not have a material impact on our credit relationships with third parties.

The Federal Reserve is also required to establish early remediation requirements for BHCs with more than \$50 billion in total assets and continues to work towards finalizing these requirements.

In addition, the Federal Reserve may continue to develop the set of enhanced prudential standards that apply to large BHCs in order to further promote the resiliency of such firms and the U.S. financial system. For additional information see Item 1A Risk Factors of this Report.

Additional Powers Under the GLB Act. The GLB Act permits a qualifying BHC to become a "financial holding company" and thereby engage in, or affiliate with financial companies engaging in, a broader range of activities than would otherwise be permitted for a BHC. Permitted affiliates include securities underwriters and dealers, insurance companies, insurance agents and companies engaged in other activities that are determined by the Federal Reserve, in consultation with the Secretary of the Treasury, to be "financial in nature or incidental thereto" or are determined by the Federal Reserve unilaterally to be "complementary" to financial activities. We became a financial holding company as of March 13, 2000. A BHC qualifies to become a financial holding company if the BHC and its subsidiary depository institutions are "well capitalized" and "well managed" and its subsidiary depository institutions have a rating under the Community Reinvestment Act (CRA) of Satisfactory or better. Among other activities, we currently rely on our status as a financial holding company to conduct merchant banking activities and securities underwriting and dealing activities. As subsidiaries of a financial holding company under the GLB Act, our non-bank subsidiaries are generally allowed to conduct new financial activities, and we are generally permitted to acquire non-bank financial companies that have less than \$10 billion in assets, with after-the-fact notice to the Federal Reserve.

In addition, the GLB Act permits qualifying national banks to engage in expanded activities through a "financial subsidiary." PNC Bank has filed a financial subsidiary certification with the OCC and currently engages in insurance agency activities through financial subsidiaries. PNC Bank may also generally engage through a financial subsidiary in any activity that is determined to be financial in nature or incidental to a financial activity by the Secretary of the Treasury, in consultation with the Federal Reserve (other than insurance underwriting activities, insurance company investment activities and merchant banking). In order to establish a financial subsidiary, a national bank and each of its depository institution affiliates must be "well capitalized" and "well managed" and the national bank and each of its depository institution affiliates must have a CRA rating of Satisfactory or better.

If a financial holding company or a national bank with a financial subsidiary fails to continue to meet the applicable "well capitalized" or "well managed" criteria, the financial holding company or national bank must enter into an agreement with the Federal Reserve or the OCC, respectively, that, among other things, identifies how the capital or management deficiencies will be corrected. Until such

deficiencies are corrected, the relevant agency may impose limits or conditions on the activities of the company or bank, and the company or bank may not engage in, or acquire a company engaged in, the types of expanded activities only permissible for a financial holding company or financial subsidiary without prior approval of the relevant agency.

In addition, a financial holding company generally may not engage in a new financial activity authorized by the GLB Act, or acquire a company engaged in such a new activity, if any of its insured depository institutions receives a CRA rating of less than Satisfactory rating. A national bank's financial subsidiary generally may not engage in a new financial activity authorized by the GLB Act, or acquire a company engaged in such a new financial activity, if the national bank or any of its insured depository institution affiliates received a CRA rating of less than Satisfactory.

<u>Volcker Rule</u>. Banking entities of any size, including PNC, are prohibited under the Volcker Rule and its implementing regulations from engaging in short-term trading as principal and having certain ownership interests in and relationships with hedge funds, private equity funds, and certain other private funds (together, "covered funds"), unless an exemption or exception applies. For example, the exemptions under the Volcker Rule allow PNC to trade as principal for securities underwriting, market making and risk-mitigating hedging purposes, subject to a variety of conditions.

To date, the prohibitions under the final Volcker Rule regulations have not had, and we do not expect them to have in the future, a material effect on our businesses or revenue. However, the conditions for engaging in exempted trading activities and having permissible relationships with a private fund under the regulations could, depending on the agencies' approach to interpreting them, cause us to forego engaging in hedging or other transactions that we would otherwise undertake in the ordinary course of business and, thus, to some extent, may limit our ability to most effectively hedge our risks, manage our balance sheet or provide products or services to our customers.

The final Volcker Rule regulations impose significant compliance and reporting obligations on banking entities. We are subject to the enhanced compliance program requirements and have adopted an enterprise Volcker compliance program. We have also divested prohibited investments in covered funds and received extensions allowing an extended conformance period for our remaining \$.2 billion interests in illiquid covered funds (as defined by the applicable requirements).

Other Federal Reserve and OCC Regulation and Supervision.

The federal banking agencies also possess broad powers to take corrective action as deemed appropriate for an insured depository institution and its holding company, and the Federal Reserve and the OCC have the ability to take enforcement action against PNC and PNC Bank, respectively, to prevent and remedy acts and practices that the agencies determine to be unfair or deceptive.

Moreover, less than satisfactory examination ratings, lower capital ratios than peer group institutions, or regulatory concerns regarding management, controls, assets, operations or other factors can all potentially result in practical limitations on the ability of a bank or BHC to engage in new activities, grow, acquire new businesses, repurchase its stock or pay dividends, or to continue to conduct existing activities. Furthermore, the OCC has established certain heightened risk management and governance standards for large banks, including PNC Bank, as enforceable guidelines under section 39 of the Federal Deposit Insurance Act (FDI Act). The guidelines, among other things, establish minimum standards for the design and implementation of a risk governance framework, describe the appropriate risk management roles and responsibilities of front line units, independent risk management, internal audit, and the board of directors, and provide that a covered bank should have a comprehensive written statement that articulates its risk appetite and serves as a basis for the framework (a risk appetite statement). If the OCC determines that a covered national bank is not in compliance with these or other guidelines established under section 39 of the FDI Act (including the guidelines relating to information security standards), the OCC may require the bank to submit a corrective action plan and may initiate enforcement action against the bank if an acceptable plan is not submitted or the bank fails to comply with an approved plan.

In August 2017, the Federal Reserve requested public comment on a proposal that would introduce a new supervisory rating system for BHCs with \$50 billion or more in total consolidated assets, including PNC. Under the proposal, covered BHCs would receive separate ratings from the Federal Reserve for (i) capital planning and positions, (ii) liquidity risk management and positions and (iii) governance and controls. Each of these component areas would receive one of the following four ratings: (i) Satisfactory, (ii) Satisfactory Watch, (iii) Deficient-1 or (iv) Deficient-2. As proposed, a covered BHC would have to maintain a rating of Satisfactory Watch or better for each of the three components to be considered "well managed". The public comment period for the proposal closed on February 15, 2018, with initial ratings under the new framework to be assigned during 2018.

Sections 23A and 23B of the Federal Reserve Act and the Federal Reserve's implementing regulation, Regulation W, place quantitative and qualitative restrictions on covered transactions between a bank and its affiliates (for example between PNC Bank, on the one hand, and The PNC Financial Services Group, Inc. and its nonbank subsidiaries, on the other hand). In general, section 23A and Regulation W limit the total amount of covered transactions between a bank and any single affiliate to 10 percent of the bank's capital stock and surplus, limit the total amount of covered transactions between a bank and all its affiliates to 20 percent of the bank's capital stock and surplus, prohibit a bank from purchasing low-quality assets from an affiliate, and require certain covered transactions to be secured with prescribed amounts of collateral. Section 23B generally requires that transactions between a bank and its affiliates be on terms that are at least as

favorable to the bank as the terms that would apply in comparable transactions between the bank and a third party. Dodd-Frank amended section 23A of the Federal Reserve Act to include as a covered transaction the credit exposure of a bank to an affiliate arising from a derivative transaction with the affiliate. The Federal Reserve has yet to propose rules to implement these revisions.

The Federal Reserve and the OCC have provided guidance regarding incentive and other elements of compensation provided to executives and other employees at financial services companies they regulate, both as general industrywide guidance and guidance specific to select larger companies, including PNC. These guidelines are intended to ensure that the incentive compensation practices of covered banking organizations do not encourage excessive risk-taking. The Federal Reserve, the OCC, the FDIC, the SEC and two other regulatory agencies jointly proposed regulations in 2011 and again in 2016 to implement the incentive compensation requirements of Section 956 of Dodd-Frank. Regulation of compensation provided by us to our executives and other employees, whether through guidance or rules and regulations, could hamper our ability to attract and retain quality employees.

The Federal Reserve's prior approval is required whenever we propose to acquire all or substantially all of the assets of any bank, to acquire direct or indirect ownership or control of more than 5% of any class of voting securities of any bank or BHC, or to merge or consolidate with any other BHC. The BHC Act and other federal law enumerates the factors the Federal Reserve must consider when reviewing the merger of BHCs, the acquisition of banks or the acquisition of voting securities of a bank or BHC. These factors include the competitive effects of the proposal in the relevant geographic markets; the financial and managerial resources and future prospects of the companies and banks involved in the transaction; the effect of the transaction on the financial stability of the United States; the organizations' compliance with anti-money laundering laws and regulations; the convenience and needs of the communities to be served; and the records of performance under the CRA of the insured depository institutions involved in the transaction.

The Federal Reserve's prior approval is also required, and similar factors are considered, to acquire direct or indirect ownership or control of more than 5% of any class of voting securities of a savings association or savings and loan holding company, or to merge or consolidate with a savings and loan holding company. In cases involving interstate bank acquisitions, the Federal Reserve also must consider the concentration of deposits nationwide and in certain individual states. Under Dodd-Frank, a BHC is generally prohibited from merging or consolidating with, or acquiring, another company if upon consummation the resulting company would control 10% or more of deposits in the U.S or a state, or if the resulting company's liabilities would exceed 10% of the aggregate liabilities of the U.S. financial sector (including the U.S. liabilities of foreign financial companies). In extraordinary cases, the FSOC, in conjunction with the

Federal Reserve, could order the break-up of financial firms that are deemed to present a grave threat to the financial stability of the United States.

OCC prior approval is required for PNC Bank to acquire another insured bank or savings association by merger or to acquire deposits or substantially all of the assets of such institutions. In deciding whether to approve such a transaction, the OCC is required to consider factors similar to those that must be considered by the Federal Reserve in connection with the acquisition of a bank or BHC. Approval of the FDIC is required to merge a nonbank entity into PNC Bank. Our ability to grow through acquisitions or reorganize our operations could be limited by these approval requirements.

At December 31, 2017, PNC Bank had an Outstanding rating with respect to the CRA.

Based on the Federal Reserve's interpretation of the BHC Act, the Federal Reserve has indicated that it considers BlackRock to be a subsidiary of The PNC Financial Services Group, Inc. for purposes of the BHC Act due to PNC's current and historical ownership interest in, as well as other relationships with, BlackRock and, thus, subject to the supervision and regulation of the Federal Reserve.

FDIC Insurance and Related Matters. PNC Bank is insured by the FDIC and subject to deposit premium assessments. Regulatory matters could increase the cost of FDIC deposit insurance premiums to an insured bank as FDIC deposit insurance premiums are "risk based." Therefore, higher fee percentages would be charged to banks that have lower capital ratios or higher risk profiles. These risk profiles take into account, among other things, weaknesses that are found by the primary federal banking regulator through its examination and supervision of the bank and the bank's holdings of assets or liabilities classified as higher risk by the FDIC. A negative evaluation by the FDIC or a bank's primary federal banking regulator could increase the costs to a bank and result in an aggregate cost of deposit funds higher than that of competing banks in a lower risk category.

Federal banking laws and regulations also apply a variety of requirements or restrictions on insured depository institutions with respect to brokered deposits. For instance, only a "well capitalized" insured depository institution may accept brokered deposits without prior regulatory approval. In addition, brokered deposits are generally subject to higher outflow assumptions than other types of deposits for purposes of the LCR.

The FDIC has imposed a deposit insurance assessment surcharge on insured depository institutions with total consolidated assets of \$10 billion or more (including PNC Bank), which will continue in effect until the earlier of (i) the date on which the Designated Reserve Ratio (the balance in the Deposit Insurance Fund divided by estimated insured deposits) reaches 1.35% (estimated by the FDIC to occur before the end of 2018), or (ii) December 31, 2018. If the ratio does not reach 1.35% by December 31, 2018, the FDIC will impose a one-time shortfall assessment on insured depository institutions with total consolidated assets of \$10 billion or more (including PNC Bank).

Resolution and Recovery Planning. BHCs that have \$50 billion or more in assets, such as PNC, are required to periodically submit to the Federal Reserve and the FDIC a resolution plan that includes, among other things, an analysis of how the company could be resolved in a rapid and orderly fashion if the company were to fail or experience material financial distress. The Federal Reserve and the FDIC may jointly impose restrictions on a covered BHC, including additional capital requirements or limitations on growth, if the agencies jointly determine that the company's plan is not credible or would not facilitate a rapid and orderly resolution of the company under the U.S. Bankruptcy Code (or other applicable resolution framework), and additionally could require the company to divest assets or take other actions if the company did not submit an acceptable resolution plan within two years after any such restrictions were imposed. The FDIC also requires large insured depository institutions, including PNC Bank, to periodically submit a resolution plan to the FDIC that includes, among other things, an analysis of how the institution could be resolved under the FDI Act in a manner that protects depositors and limits losses or costs to creditors of the bank in accordance with the FDI Act. PNC and PNC Bank are required to provide the Federal Reserve and FDIC a public summary of their resolution plans, which the agencies then make available to the public. Depending on how the agencies conduct their review of the resolution plans submitted by PNC and PNC Bank, these requirements could affect the ways in which PNC structures and conducts its business and result in higher compliance and operating costs.

PNC Bank also is subject to OCC guidelines under section 39 of the FDI Act that establish standards for recovery planning. These guidelines require a covered bank to develop and maintain a recovery plan that, among other things, identifies a range of options that could be undertaken by the covered bank to restore its financial strength and viability should identified triggering events occur. The recovery plan guidelines are enforceable in the same manner as the other guidelines the OCC has established under section 39 of the FDI Act.

<u>CFPB Regulation and Supervision</u>. The CFPB examines PNC and PNC Bank for compliance with a broad range of federal consumer financial laws and regulations, including the laws and regulations that relate to deposit products, credit card, mortgage, automobile, student and other consumer loans, and other consumer financial products and services that we offer. The CFPB also has authority to take enforcement actions to prevent and remedy acts and practices relating to consumer financial products and services that it deems to be unfair, deceptive or abusive, and to impose new disclosure requirements for any consumer financial product or service.

The CFPB may issue regulations that impact products and services offered by PNC Bank. The regulations could reduce the fees that we receive, alter the way we provide our products and services, or expose us to greater risk of private litigation or regulatory enforcement action. The CFPB may engage in rulemakings affecting prepaid cards, data on small business lending, the Home Mortgage Disclosure Act, and payday, vehicle title, and certain high-cost installment loans.

Securities and Derivatives Regulation

Our registered broker-dealer and investment adviser subsidiaries are subject to the Securities Exchange Act of 1934, and the Investment Advisers Act of 1940, respectively, and related rules and regulations promulgated by the SEC.

Our investment adviser subsidiary that serves as adviser to registered investment companies is also subject to the requirements of the Investment Company Act of 1940 and related regulations. The Financial Industry Regulatory Authority (FINRA) is the primary self-regulatory organization for our registered broker-dealer subsidiaries. Our broker-dealer and investment adviser subsidiaries also are subject to additional regulation by states or local jurisdictions.

The SEC and FINRA have active enforcement functions that oversee broker-dealers and investment advisers and can bring actions that result in fines, restitution, a limitation on permitted activities, disqualification to continue to conduct certain activities and an inability to rely on certain favorable exemptions. Certain types of infractions and violations also can affect our ability to expeditiously issue new securities into the capital markets. In addition, certain changes in the activities of a broker-dealer require approval from FINRA, and FINRA takes into account a variety of considerations in acting upon applications for such approval, including internal controls, capital levels, management experience and quality, prior enforcement and disciplinary history and supervisory concerns.

Dodd-Frank imposed comprehensive and significant regulations on the activities of financial institutions that are active in the U.S. over-the-counter derivatives and foreign exchange markets. These regulations were intended to (i) address systemic risk issues, (ii) bring greater transparency to the derivatives markets, (iii) provide enhanced disclosures and protections to customers and (iv) promote market integrity. Among other things, Dodd-Frank: (i) requires the registration of both "swap dealers" and "major swap participants" with one or both of the CFTC (in the case of non security-based swaps) and the SEC (in the case of securitybased swaps); (ii) requires that most standardized swaps be centrally cleared through a regulated clearing house and traded on a centralized exchange or swap execution facility; (iii) subjects swap dealers and major swap participants to capital and margin requirements in excess of historical practice; (iv) subjects swap dealers and major swap participants to comprehensive new recordkeeping and realtime public reporting requirements; (v) subjects swap dealers and major swap participants to new business conduct requirements, including the provision of daily marks to counterparties and disclosing to counterparties (pre-execution) the material risks, material incentives, and any conflicts of interest associated with their swap; (vi) imposes special duties on swap dealers and major swap participants when transacting

a swap with a "special entity" (*e.g.*, governmental agency (federal, state or local) or political subdivision thereof, pension plan or endowment); and (vii) imposes margin requirements on swaps that are not centrally cleared through a regulated clearing house.

As a registered swap dealer with the CFTC, PNC Bank's derivatives and foreign exchange businesses are subject to the regulations and requirements imposed on registered swap dealers, and the CFTC (and for certain delegated responsibilities, the National Futures Association) has a meaningful supervisory role with respect to PNC Bank's derivatives and foreign exchange businesses. Because of the limited volume of our security-based swap activities, PNC Bank has not registered with the SEC as a security-based swap dealer. The regulations and requirements applicable to swap dealers have and will continue to impose compliance burdens on PNC Bank and introduces additional legal risks (including as a result of applicable anti-fraud and anti-manipulation provisions and private rights of action). In addition, failure to comply with the "pay-to-play" regulations that govern our swap and municipal securities businesses could result in limitations on PNC Bank's ability to conduct swap and municipal securities business with state or local governments and their authorities.

BlackRock has subsidiaries in securities and related businesses subject to SEC, other governmental agencies, state, local and FINRA regulation, and a federally chartered nondepository trust company subsidiary subject to supervision and regulation by the OCC. For additional information about the regulation of BlackRock by these agencies and otherwise, see the discussion under the "Regulation" section of Item 1 Business in BlackRock's most recent Annual Report on Form 10-K, which may be obtained electronically at the SEC's website at www.sec.gov.

Regulations of Other Agencies

In addition to regulations issued by the federal banking, securities and derivatives regulators, we also are subject to regulations issued by other federal agencies with respect to certain financial products and services we offer. For example, certain of our fiduciary, brokerage and investment management activities are subject to regulations issued by the Department of Labor (DOL) under the Employee Retirement Income Security Act of 1974 (ERISA), as amended, and related provisions of the Internal Revenue Code and certain of our student lending and servicing activities are subject to regulation by the Department of Education. Certain provisions of final rules issued by the DOL expanding the definition of "investment advice" for retirement accounts and certain other accounts took effect in June 2017. The rules increased the scope of activities that give rise to fiduciary status under ERISA and the Internal Revenue Code and primarily apply to aspects of our Retail Banking and Asset Management Group segments. Certain requirements of the amended rules that had been scheduled to take effect on January 1, 2018 have been delayed until July 1, 2019 and the DOL is expected to propose amendments to the rules during the delay.

Competition

We are subject to intense competition from other regulated banking organizations, as well as various other types of financial institutions and non-bank entities that can offer a number of similar products and services without being subject to bank regulatory supervision and restrictions.

PNC Bank competes for deposits and/or loans with:

- Other commercial banks,
- Savings banks,
- Credit unions,
- Consumer finance companies,
- Leasing companies,
- Other non-bank lenders,
- Financial technology companies,
- Treasury management service companies,
- Insurance companies, and
- Issuers of commercial paper and other securities, including mutual funds.

In providing asset management services, our businesses compete with:

- Investment management firms,
- Large banks and other financial institutions,
- Brokerage firms,
- Financial technology companies,
- Mutual fund complexes, and
- Insurance companies.

Our various non-bank businesses engaged in investment banking and alternative investment activities compete with:

- Commercial banks,
- Investment banking firms,
- Collateralized loan obligation (CLO) managers,
- Hedge funds,
- Mutual fund complexes,
- Merchant banks,
- Insurance companies,
- Private equity firms, and
- Other investment vehicles.

Loan pricing, structure and credit standards are extremely important in the current environment as we seek to achieve appropriate risk-adjusted returns. Traditional deposit-taking activities are also subject to pricing pressures and to customer migration as a result of intense competition for deposits and investments. Competitors may seek to compete with us through traditional channels such as physical locations or through digital channels such as internet or mobile. We include here by reference the additional information regarding competition and factors affecting our competitive position included in the Item 1A Risk Factors of this Report.

Employees

Employees totaled 52,906 at December 31, 2017. This total included 50,358 full-time and 2,548 part-time employees, of which 29,604 full-time and 2,368 part-time employees were employed by our Retail Banking business.

SEC Reports and Corporate Governance Information

We are subject to the informational requirements of the Securities Exchange Act of 1934 (Exchange Act) and, in accordance with the Exchange Act, we file annual, quarterly and current reports, proxy statements, and other information with the SEC. Our SEC File Number is 001-09718. You may read and copy this information at the SEC's Public Reference Room located at 100 F Street NE, Room 1580, Washington, D.C. 20549. You can obtain information on the operation of the Public Reference Room by calling the SEC at 800-SEC-0330. You can obtain copies of this information by mail from the Public Reference Section of the SEC, 100 F Street NE, Washington, D.C. 20549, at prescribed rates.

The SEC maintains an internet website at www.sec.gov that contains reports, including exhibits, proxy and information statements, and other information about issuers, like us, who file electronically with the SEC. You can also inspect reports, proxy statements and other information about us at the offices of the New York Stock Exchange, 20 Broad Street, New York, New York 10005.

We make our Annual Report on Form 10-K, Quarterly Reports on Form 10-Q, Current Reports on Form 8-K, and amendments to those reports filed with or furnished to the SEC pursuant to Section 13(a) or 15(d) of the Exchange Act available free of charge on our internet website as soon as reasonably practicable after we electronically file such material with, or furnish it to, the SEC. Our corporate internet address is www.pnc.com and you can find this information at www.pnc.com/secfilings. Shareholders and bondholders may obtain copies of these filings without charge by contacting Shareholder Services at 800-982-7652 or via the online contact form at www.computershare.com/contactus for copies without exhibits, and by contacting Shareholder Relations at 800-843-2206 or via e-mail at investor.relations@pnc.com for copies of exhibits, including financial statement and schedule exhibits where applicable. The interactive data file (XBRL) exhibit is only available electronically.

Information about our Board of Directors and its committees and corporate governance, including our PNC Code of Business Conduct and Ethics, is available on our corporate website at www.pnc.com/corporategovernance. In addition, any future amendments to, or waivers from, a provision of the PNC Code of Business Conduct and Ethics that applies to our directors or executive officers (including our principal executive officer, principal financial officer, and principal accounting officer or controller) will be posted at this internet address.

Shareholders who would like to request printed copies of the PNC Code of Business Conduct and Ethics or our Corporate Governance Guidelines or the charters of our Board of Directors's Audit, Nominating and Governance, Personnel and Compensation, or Risk Committees (all of which are posted on our corporate website at www.pnc.com/ corporategovernance) may do so by sending their requests to PNC's Corporate Secretary at corporate headquarters at The Tower at PNC Plaza, 300 Fifth Avenue, Pittsburgh, Pennsylvania 15222-2401. Copies will be provided without charge to shareholders.

Our common stock is listed on the New York Stock Exchange (NYSE) under the symbol "PNC."

Internet Information

The PNC Financial Services Group, Inc.'s financial reports and information about its products and services are available on the internet at www.pnc.com. We provide information for investors on our corporate website under "About Us – Investor Relations." We use our Twitter account, @pncnews, as an additional way of disseminating to the public information that may be relevant to investors.

We generally post the following under "About Us – Investor Relations" shortly before or promptly following its first use or release: financially-related press releases, including earnings releases, and supplemental financial information, various SEC filings, including annual, quarterly and current reports and proxy statements, presentation materials associated with earnings and other investor conference calls or events, and access to live and recorded audio from earnings and other investor conference calls or events. In some cases, we may post the presentation materials for other investor conference calls or events several days prior to the call or event. When warranted, we will also use our website to expedite public access to time-critical information regarding PNC in advance of distribution of a press release or a filing with the SEC disclosing the same information. For earnings and other conference calls or events, we generally include in our posted materials a cautionary statement regarding forward-looking and non-GAAP financial information, and we provide GAAP reconciliations when we include non-GAAP financial information. Where applicable, we provide such GAAP reconciliations in materials for that event or in materials for prior investor presentations or in our annual, quarterly or current reports.

We are required to provide additional public disclosure regarding estimated income, losses and pro forma regulatory capital ratios under supervisory and PNC-developed hypothetical severely adverse economic scenarios, as well as information concerning our capital stress testing processes, pursuant to the stress testing regulations adopted by the Federal Reserve and the OCC. We are also required to make certain additional regulatory capital-related public disclosures about our capital structure, risk exposures, risk assessment processes, risk-weighted assets and overall capital adequacy, including market risk-related disclosures, under the regulatory capital rules adopted by the Federal banking agencies. Under these regulations, we may satisfy these requirements through postings on our website, and we have done so and expect to continue to do so without also providing disclosure of this information through filings with the SEC.

Other information posted on our corporate website that may not be available in our filings with the SEC includes information relating to our corporate governance and annual communications from our chairman to shareholders.

Where we have included internet addresses in this Report, such as our internet address and the internet address of the SEC, we have included those internet addresses as inactive textual references only. Except as specifically incorporated by reference into this Report, information on those websites is not part hereof.

ITEM 1A – RISK FACTORS

We are subject to a number of risks potentially impacting our business, financial condition, results of operations and cash flows. As a financial services organization, certain elements of risk are inherent in what we do and the business decisions we make. Thus, we encounter risk as part of the normal course of our business, and we design risk management processes to help manage these risks.

Our success is dependent on our ability to identify, understand and manage the risks presented by our business activities so that we can appropriately balance revenue generation and profitability. We categorize the risks we face as credit risk, liquidity risk, capital management, market risk, operational risk and compliance risk. We discuss our principal risk management processes and, in appropriate places, related historical performance and other metrics in the Risk Management section included in Item 7 of this Report.

The following are the key risk factors that affect us. Any one or more of these risk factors could have a material adverse impact on our business, financial condition, results of operations or cash flows, in addition to presenting other possible adverse consequences, including those described below. These risk factors and other risks we face are also discussed further in other sections of this Report.

Our business and financial performance are vulnerable to the impact of adverse economic conditions.

As a financial services company, our business and overall financial performance are affected to a significant extent by economic conditions. Adverse economic conditions generally result in reduced business activity, which may decrease the demand for our products and services, can impair the ability of borrowers to repay loans, and may lead to turmoil and volatility in financial markets. Such effects would likely have an adverse impact on financial institutions such as PNC, with the significance of the impact generally depending on the severity of the adverse economic conditions, increasing typically under recessionary conditions.

Even when economic conditions are relatively good or stable, specific economic factors can negatively affect the performance of financial institutions, especially as these factors relate to particular industries or geographical regions. For example, shifting consumer behavior with respect to retail purchases over the internet rather than in physical stores has negatively impacted performance by some retailers, potentially decreasing demand for financial services in that sector and impairing the creditworthiness of some shopping malls and retail companies.

Given the geographic scope of our business and operations, we are most exposed to issues within the United States economy and financial markets and, within the United States, most exposed to issues within our primary geographic footprint concentrated in the Mid-Atlantic, Midwest and Southeast.

International economic conditions, however, can impact our business and financial performance both directly to the extent of our international business activities and, possibly more significantly, indirectly due to the possibility that poor economic conditions impacting other major economies around the world will have an impact on the United States. For example, the prospect of the United Kingdom's impending exit from the European Union has led to uncertainty regarding the impact on the United Kingdom's economy and capital markets as well as that of the remaining countries in the European Union. It is also possible that other countries might seek to exit the European Union in the future. The extent to which these uncertainties will affect the United States economy and capital markets is unclear.

The recently enacted Tax Cuts and Jobs Act will impact PNC's business and financial results, including likely resultant changes in customer behavior.

In December 2017, Congress passed and the President signed the Tax Cuts and Jobs Act, representing the most significant change in U.S. federal tax law in decades. Although the direct impact of this legislation on PNC is likely to be positive, primarily as a result of a reduction in the corporate tax rate from 35% to 21%, there are specific aspects that will have a negative impact, including the disallowance of deductions for FDIC deposit insurance premiums and for a portion of our executive incentive compensation.

In addition, we anticipate that business and retail customers will modify behavior going forward in response to changes in the tax law, some of which are likely to be favorable to PNC over time, but some changes in customer behavior could be detrimental to our business. For example, in addition to various potential positive impacts, new or modified limitations on the ability of individuals to deduct mortgage and home equity interest expense could adversely affect demand for our home lending products. As another example, there could be reduced demand for commercial borrowing, due to factors such as improved cash flow resulting from lower tax rates or funds repatriated from outside the U.S. or utilization of other financing options.

It is not possible at present to determine the likely overall impact of the new tax law on PNC as a result of changes in economic activity and customer behavior, either in terms of magnitude or timing.

The monetary policies of governmental agencies, including the Federal Reserve, have a significant impact on interest rates and overall financial market performance.

Governmental monetary policies, including those of the Federal Reserve, have a significant impact on interest rates and overall financial market performance. These governmental policies can thus affect the activities and results of operations of banking companies such as PNC. An important function of the Federal Reserve is to regulate the national supply of bank credit and certain interest rates. The actions of the Federal Reserve influence the rates of interest that we charge on loans and that we pay on borrowings and interest-bearing deposits and can also affect the value of our on-balance sheet and offbalance sheet financial instruments. Both due to the impact on rates and by controlling access to direct funding from the Federal Reserve Banks, the Federal Reserve's policies also significantly influence our cost of funding.

We cannot predict the nature or timing of future changes in monetary policies or the precise effects that they may have on our activities and financial results. The very low interest rate environment that has prevailed since the financial crisis has had a negative impact on our ability to increase our net interest income. Although the Federal Reserve started increasing its benchmark interest rate in December 2015, ending approximately seven years of near zero rates, and has continued to do so through 2017, with expectations that it will continue to do so in 2018, there is no assurance that it will do so or that it will do so in a manner that will be consistent with market expectations. Should the Federal Reserve not continue raising rates, it could affect consumer and business behavior in ways that are adverse to us in addition to continuing to affect our net interest income. Even if the Federal Reserve continues to increase the interest rates it directly influences, there may be a prolonged period before interest rates return to more historically typical levels. Recent and pending changes in the membership of the Federal Reserve Board, including its Chair, may create additional uncertainty regarding the direction of policy by the Federal Reserve.

After an extended period during which the Federal Reserve increased its balance sheet substantially above historical levels through the purchase of debt securities, the Federal Reserve has indicated an intention to start reducing its balance sheet from these elevated levels. It is unclear what impact this will have on the economy or on the markets for and values of financial assets, including assets of the types that we hold, purchase and sell.

In addition, monetary policy actions by governmental authorities in the European Union or other countries could have an impact on global interest rates, which could affect rates in the United States as well as rates on instruments denominated in currencies other than the U.S. dollar, any of which could have one or more of the potential effects on us described above. While we have not experienced negative interest rates in the United States, and in recent periods the Federal Reserve has been gradually increasing rates, some central banks in Europe and Asia have cut interest rates below zero. If U.S. interest rates were to fall below zero, it could significantly affect our businesses and results of operation in ways that cannot easily be predicted.

Other government legislation, regulation and policy potentially impacting the economy can have an adverse effect on our business and financial performance.

Changes in law or governmental policy affecting the economy, business activity, or personal spending, investing or saving activities may cause consumers and businesses to alter behavior in ways that impact demand for our products and services. PNC may also adjust the types of transactions we seek to pursue under those circumstances. Uncertainty regarding future law or policy may have similar impacts. Concern regarding the ability of Congress and the President collectively to reach agreement on federal budgetary matters (including the debt ceiling), or prolonged stalemates leading to total or partial governmental shutdowns, also can have adverse economic consequences and create the risk of economic instability or market volatility with potential adverse consequences to our business and financial performance.

As a regulated financial services firm, we are subject to numerous governmental regulations, and the financial services industry as a whole continues to be subject to significant regulatory reform initiatives in the United States and elsewhere.

The PNC Financial Services Group, Inc. is a bank holding company (BHC) and a financial holding company and is subject to numerous governmental regulations involving both its business and organization.

Our businesses are subject to regulation by multiple banking, consumer protection, securities and derivatives regulatory bodies. In recent years, we, together with the rest of the financial services industry, have faced intense regulation, with many new regulatory initiatives and vigorous oversight and enforcement on the part of numerous regulatory bodies. Legislatures and regulators have pursued a broad array of initiatives intended to promote the safety and soundness of financial institutions, financial market stability, the transparency and liquidity of financial markets, and consumer and investor protection. As a result, we have experienced significantly increased compliance costs and have needed to adjust our business practices to accommodate new requirements and limitations, impacting some of our revenue opportunities.

Applicable laws and regulations restrict our ability to repurchase stock or to receive dividends from subsidiaries that operate in the banking and securities businesses and impose capital adequacy requirements. PNC's ability to service its obligations and pay dividends to shareholders is largely dependent on the receipt of dividends and advances from its subsidiaries, primarily PNC Bank. The Federal Reserve requires a BHC to act as a source of financial and managerial strength for its subsidiary banks. The Federal Reserve could require PNC to commit resources to PNC Bank when doing so is not otherwise in the interests of PNC or its shareholders or creditors.

Applicable laws and regulations also restrict permissible activities and investments and require compliance with provisions designed to protect loan, deposit, brokerage, fiduciary, mutual fund and other customers, and for the protection of customer information, among other things. We are also subject to laws and regulations designed to combat money laundering, terrorist financing, and transactions with persons, companies or foreign governments designated by U.S. authorities.

The current presidential administration has indicated an intent to pursue the regulation of the financial services industry differently than under the previous administration. There is, however, significant uncertainty regarding the direction this administration will take and its ability to implement its policies and objectives. In addition, the ultimate impact on potential new regulatory initiatives and the enforcement of existing laws and regulations is not known. Even to the extent that the current administration takes a different approach to regulation of the financial services industry than had previously been the case, and even if that is overall favorable to us, we would still expect compliance with regulations to be a meaningful burden presenting significant risk. In addition, there could be an increase in state regulation of aspects of our business and in foreign regulation that impacts our operations. Different approaches to regulation by different jurisdictions could increase our compliance costs.

There are currently pending numerous additional regulatory proposals, and other new initiatives are likely to be pursued in the future. The implementation of new regulatory requirements and limitations could further increase our compliance costs and the risks associated with noncompliance and could affect our ability to pursue or take full advantage of some desirable business opportunities.

A failure to comply, or to have adequate policies and procedures designed to comply, with regulatory requirements and expectations could expose us to damages, fines and regulatory penalties and other regulatory actions or consequences, such as limitations on activities otherwise permissible for us or additional requirements for engaging in new activities, and could also injure our reputation with customers and others with whom we do business.

See Supervision and Regulation in Item 1 of this Report for more information concerning the regulation of PNC and recent initiatives to reform financial institution regulation, including some of the matters discussed in this Risk Factor. Note 18 Regulatory Matters in the Notes To Consolidated Financial Statements in Item 8 of this Report also discusses some of the regulation applicable to us.

Current and likely future capital and liquidity standards will result in banks and bank holding companies needing to maintain more and higher quality capital and greater liquidity than has historically been the case.

We are subject to regulatory capital and liquidity requirements established by the Federal Reserve and the OCC, and discuss these requirements and standards in the Supervision and Regulation section included in Item 1 of this Report and the Liquidity and Capital Management portion of the Risk Management section of Item 7 of this Report.

The regulatory capital requirements applicable to banks and BHCs have undergone significant changes. For example, the final rules adopted by the U.S. banking agencies in July 2013 to implement the new international guidelines for determining regulatory capital established by the Basel Committee known as "Basel III," as well as to implement certain provisions of Dodd-Frank, fundamentally altered the U.S. regulatory capital requirements for U.S. BHCs and banks. Significant parts of these rules are now effective for us, although as a result of the staggered effective dates of the rules, many provisions are being phased-in over a period of years, with the rules generally to be fully phased-in as of January 1, 2019. The Basel Committee recently finalized additional, significant changes to the international capital framework for banking organizations, including modifications that would: (i) significantly alter the international frameworks governing the market risk capital requirements for trading positions and the standardized risk weighting approach for credit risk, (ii) introduce a new standardized measure of operational risk to replace the current methodology under the advanced approaches, and (iii) establish a standardized approach floor for capital ratios calculated by banking organizations that use the advanced approaches for the risk weighting of assets. Moreover, the Basel Committee continues to consider other changes to the international regulatory capital framework to enhance the transparency and consistency of capital requirements among banks and jurisdictions, including, among others, the treatment of securitization positions. It is unclear how these or other initiatives by the Basel Committee may be implemented in the U.S. and, thus, we are unable to estimate what potential impact such initiatives may have on us.

The liquidity standards applicable to large U.S. banking organizations also are expected to be supplemented in the coming years. For example, the Basel Committee, in October 2014, released the final framework for the NSFR standard, which is designed to ensure that banking organizations maintain a stable, long-term funding profile in relation to their asset composition and off-balance sheet activities. In May 2016, the U.S. banking agencies proposed rules to implement the NSFR but these rules have not yet been finalized. Thus, the potential impact of the NSFR on us remains unclear.

The need to maintain more and higher quality capital, as well as greater liquidity, going forward than historically has been required could limit our business activities, including lending, and our ability to expand, either organically or through acquisitions. It could also result in us taking steps to increase our capital that may be dilutive to shareholders, being limited in our ability to pay dividends or otherwise return capital to shareholders, or selling or refraining from acquiring assets, for which the capital requirements appear inconsistent with the assets' underlying risks. In addition, the new liquidity standards require us to maintain holdings of highly liquid short-term investments, thereby reducing our ability to invest in longer-term or less liquid assets, even if more desirable from a balance sheet or interest rate risk management perspective. In addition, PNC, as a BHC that is subject to the advanced approaches for regulatory capital purposes, is subject to a higher LCR requirement than other BHCs that have more than \$50 billion in total assets but are not subject to the advanced approaches. Until the scope and terms of pending or future rulemakings relating to capital, liquidity or liability composition are known, the extent to which such rules may apply to us and the potential impact of such rules on us will remain uncertain.

The planned discontinuance of the requirement that banks submit rates for the calculation of LIBOR presents risks to the financial instruments originated or held by PNC that use LIBOR as a reference rate.

LIBOR is the reference rate for many transactions in which we lend and borrow money, issue, purchase and sell securities and enter into derivatives to manage our or our customers' risk of these transactions. LIBOR has been the subject of recent national and international regulatory guidance and proposals for reform. The United Kingdom Financial Conduct Authority, which regulates the process for establishing LIBOR, announced in July 2017 that it intends to stop persuading or compelling banks to submit rates for the calculation of LIBOR to the administrator of LIBOR after 2021. It is not possible to predict the effect of this announcement, including whether LIBOR will continue in place, and if so what changes will be made to it, what rates may replace LIBOR in use going forward, and how LIBOR will be determined for purposes of loans, securities and derivative instruments currently referencing it if it ceases to exist at some point. Any change in the availability or calculation of LIBOR may adversely affect the yield on loans or securities held by us, amounts paid on securities we have issued, or amounts received and paid on derivative instruments we have entered into, the value of such loans, securities, or derivative instruments, the trading market for LIBOR-based securities, the terms of new loans being made using different or modified reference rates, or our ability to effectively use derivative instruments to manage risk.

Any of the reform proposals or the general increased regulatory scrutiny of LIBOR could increase the costs and risks of administering or otherwise participating in the setting of LIBOR and complying with any such regulations or requirements. Such factors may have the effect of discouraging market participants from continuing to administer or contribute to LIBOR or lead to the ultimate discontinuance or unavailability of quotes of LIBOR. It is impossible to predict whether and to what extent banks will continue to provide LIBOR submissions to the administrator of LIBOR.

Our business and financial results are subject to risks associated with the creditworthiness of our customers and counterparties.

Credit risk is inherent in the financial services business and results from, among other things, extending credit to customers, purchasing securities, and entering into financial derivative transactions and certain guarantee contracts. Credit risk is one of our most significant risks, particularly given the high percentage of our assets represented directly or indirectly by loans and securities and the importance of lending activity to our overall business. We manage credit risk by assessing and monitoring the creditworthiness of our customers and counterparties, by diversifying our loan portfolio and by investing primarily in high quality securities.

A borrower's ability to repay a loan can be adversely affected by several factors. Individual borrowers can be affected by, among other things, declines in income, job losses, health issues or family issues. Commercial borrowers can be affected by, among other things, poor business performance or catastrophe losses. A weak or deteriorating economy and changes in the domestic or global markets would typically adversely impact the ability of our borrowers to repay outstanding loans. We may also be exposed to credit risk if we fail to evaluate properly at origination the likely ability of a borrower to repay a loan or fail to identify declining creditworthiness of a borrower at a time when remedial actions may reduce our exposure. Any decrease in our borrowers' ability to repay loans would result in higher levels of nonperforming loans, net charge-offs, provision for credit losses and valuation adjustments on loans held for sale.

Financial services institutions are interrelated as a result of trading, clearing, lending, counterparty and other relationships. We have exposure to many different industries and counterparties, and we routinely execute transactions with counterparties in the financial services industry, including brokers and dealers, commercial banks, investment banks, mutual and hedge funds, and other institutional clients. Many of these transactions expose us to credit risk in the event of default of our counterparty or client.

Despite maintaining a diversified loan and securities portfolio, in the ordinary course of business, we may have concentrated credit exposure to a particular person or entity, industry, region or financial market. Loans secured by commercial and residential real estate represent a significant percentage of our overall credit portfolio, as well as of the assets underlying our investment securities. Events adversely affecting specific customers or counterparties, industries, regions or financial markets, including a decline in their creditworthiness or a worsening overall risk profile, could adversely affect us.

Our credit risk may be exacerbated when collateral held by us to secure obligations to us cannot be realized upon or is liquidated at prices that are not sufficient to recover the full amount of the loan or derivative exposure due us. We reserve for credit losses on our loan and lease portfolio, as well as for unfunded loan commitments and letters of credit, through our Allowances for loan and lease losses and unfunded loan commitments and letters of credit, with changes in the allowances reflected in Net income through Provision for credit losses. An increase in credit risk would likely lead to an increase in Provision for credit losses with a resulting reduction in our Net income and would increase our allowances.

Our business and financial performance is impacted significantly by market interest rates and movements in those rates.

As a result of the high percentage of our assets and liabilities that are in the form of interest-bearing or interest-related instruments, changes in interest rates, in the shape of the yield curve, or in spreads between different market interest rates can have a material effect on our business, our profitability and the value of our financial assets and liabilities. For example:

- Changes in interest rates or interest rate spreads can affect the difference between the interest that we earn on assets and the interest that we pay on liabilities, which impacts our overall net interest income and margin as well as our profitability.
- Such changes can affect the ability of borrowers to meet obligations under variable or adjustable rate loans and other debt instruments, and can, in turn, affect our loss rates on those assets.
- Such changes may decrease the demand for interest rate-based products and services, including loans and deposit accounts.
- Such changes can also affect our ability to hedge various forms of market and interest rate risk and may decrease the effectiveness of those hedges in helping to manage such risks.
- Movements in interest rates also affect mortgage prepayment speeds and could result in impairments of mortgage servicing assets or otherwise affect the profitability of such assets.
- Increases in interest rates can lower the price we would receive on fixed-rate customer obligations if we were to sell them.

We discuss the impact of governmental monetary policy on interest rates in "The monetary policies of governmental agencies, including the Federal Reserve, have a significant impact on interest rates and overall financial market performance" Risk Factor in this Item 1A.

Our business and financial performance are vulnerable to the impact of changes in the values of financial assets.

As a financial institution, a substantial majority of our assets and liabilities are financial in nature (items such as loans, securities, servicing rights, deposits and borrowings). Such assets and liabilities will fluctuate in value, often significantly, due to movements in the financial markets or market volatility as well as developments specific to the asset or liability in question. Credit-based assets and liabilities will fluctuate in value due to changes in the perceived creditworthiness of borrowers or other counterparties and also due to changes in market interest rates.

In addition, changes in loan prepayment speeds, usually based on fluctuations in market interest rates, could adversely impact the value of our mortgage servicing rights. Additionally, the underlying value of assets under lease or securing an obligation may decrease due to supply and demand for the asset or the condition of the asset. This could cause the ability to collect fully on, or the value of, the secured obligation to decline.

In many cases, we mark our assets and liabilities to market on our financial statements, either through our Net income and Retained earnings or through adjustments to Accumulated other comprehensive income on our balance sheet. We may need to record losses in the value of financial assets even where our expectation of realizing the face value of the underlying instrument has not changed.

In addition, asset management revenue is primarily based on a percentage of the value of the assets being managed and thus is impacted by general changes in market valuations. Thus, although we are not directly impacted by changes in the value of such assets, decreases in the value of those assets would affect related noninterest income.

Our asset and liability valuations and the determination of the amount of loss allowances and impairments taken on our assets are highly subjective. Inaccurate estimates could materially impact our results of operations or financial position.

We must use estimates, assumptions and judgments when assets and liabilities are measured and reported at fair value. Assets and liabilities carried at fair value inherently result in a higher degree of financial statement volatility. Changes in underlying factors or assumptions in any of the areas underlying our estimates could materially impact our future financial condition and results of operations. During periods of market disruption, it may be more difficult to value certain assets if trading becomes less frequent and/or market data becomes less observable. There may be certain asset classes that were historically traded in active markets with significant observable data that rapidly become illiquid due to market volatility, a loss in market confidence or other factors. In addition, we have certain assets and liabilities carried at fair value that are estimated using unobservable inputs that are significant to the fair value of the assets or liabilities. Further, rapidly changing and unprecedented market conditions in any particular market could materially impact the valuation of assets as reported within our consolidated financial statements.

The determination of the amount of loss allowances and asset impairments varies by asset type and is based upon our periodic evaluation and assessment of known and inherent risks associated with the respective asset class. Management updates its evaluations regularly and reflects changes in allowances and impairments in operations as such evaluations are revised. Although we have policies and procedures in place to determine loss allowance and asset impairments, due to the subjective nature of this area, there can be no assurance that our management has accurately assessed the level of impairments taken and allowances reflected in our financial statements. Furthermore, additional impairments may need to be taken or allowances provided for in the future. Historical trends may not be indicative of future impairments or allowances.

Our success depends on our ability to attract and retain customers for our products and services, which may be negatively impacted by a lack of consumer and business economic confidence as well as our actions, including our ability to anticipate and satisfy customer demands for products and services.

As a financial institution, our performance is subject to risks associated with declines in customer demand for our products and services, including as a result of a loss of economic confidence or customer trust in us.

Economic and market developments may affect consumer and business confidence levels. If customers lose confidence due to a weak or deteriorating economy or uncertainty surrounding the future of the economy, the demand for our products and services could suffer. We may also fail to attract or retain customers if we are unable to develop and market products and services that meet evolving customer needs or demands or if we are unable to deliver them effectively and securely to our customers, particularly to the extent that our competitors are better able to do so.

News or other publicity that impairs our reputation, or the reputation of our industry generally, also could cause a loss of customers. Financial companies are highly vulnerable to reputational damage when they are found to have harmed customers, particularly retail customers, through conduct that is illegal or viewed as unfair, deceptive, manipulative or otherwise wrongful. The negative impact of such reputational damage on our business may be disproportionate to the actual harm caused customers. In addition, we could suffer reputational harm and a loss of customer trust as a result of conduct of others in which we have not engaged.

If we fail to attract and retain customers, demand for our loans and other financial products and services could decrease and we could experience adverse changes in payment patterns. We could lose interest income from a decline in credit usage and noninterest income from a decline in product sales, investments and other transactions. Our customers could remove money from checking, savings or other types of deposit accounts in favor of other banks or other types of investment products. Deposits are a low cost source of funds for us. Therefore, losing deposits could increase our funding costs and reduce our net interest income. The United States is just starting to emerge from an extended period of very low interest rates. Very low interest rates decrease the attractiveness of alternatives to bank checking and savings accounts, which may lack deposit insurance and some of the convenience associated with more traditional banking products. As interest rates rise, and the spread between the rates we offer and those offered by alternatives to bank accounts widens, customers may be less willing to maintain balances in noninterest bearing or low interest bank accounts, which could result in a relatively higher cost of funds to us and negatively affect net interest income. This could also result in a loss of noninterest income.

In our asset management business, investment performance is an important factor influencing the level of assets that we manage. Poor investment performance could impair revenue and growth as existing clients might withdraw funds in favor of better performing products. Additionally, the ability to attract funds from existing and new clients might diminish. Overall economic conditions may limit the amount that customers are able or willing to invest as well as the value of the assets they do invest. The failure or negative performance of products of other financial institutions could lead to a loss of confidence in similar products offered by us without regard to the performance of our products. Such a negative contagion could lead to withdrawals, redemptions and liquidity issues in such products and have a material adverse impact on our assets under management and asset management revenues and earnings.

We operate in a highly competitive environment, in terms of the products and services we offer and the geographic markets in which we conduct business, as well as in our labor markets where we compete for talented employees. Competition could adversely impact our customer acquisition, growth and retention, as well as our credit spreads and product pricing, causing us to lose market share and deposits and revenues.

We are subject to intense competition from various financial institutions as well as from non-bank entities that engage in many similar activities without being subject to bank regulatory supervision and restrictions. This competition is described in Item 1 of this Report under "Competition."

In all, the principal bases for competition are pricing (including the interest rates charged on loans or paid on interest-bearing deposits), product structure, the range of products and services offered and the quality of customer service (including convenience and responsiveness to customer needs and concerns). The ability to access and use technology is an increasingly important competitive factor in the financial services industry. Having the right technology is a critically important component to customer satisfaction as it affects our ability to deliver the products and services that customers desire and in a manner that they find convenient and attractive. Banks generally are facing the risk of increased competition from products and services offered by non-bank financial technology companies, particularly related to payment services and lending. Consolidation in our industry, including among smaller banks combining to form more competitive larger ones and between banks and non-bank entities offering financial products and services, could result in PNC facing more intense competition, particularly in impacted regions or with respect to particular products.

Another increasingly competitive factor in the financial services industry is the competition to attract and retain talented employees across many of our business and support areas. This factor presents greater risk when we are expanding into new markets, developing new product lines, or need to significantly enhance staffing in certain areas. This competition leads to increased expenses in many business areas and can also cause us to not pursue certain business opportunities. Limitations on the manner in which regulated financial institutions can compensate their officers and employees, including those contained in pending rule proposals implementing requirements of the Dodd-Frank Act, may make it more difficult for regulated financial institutions, including PNC, to compete with unregulated financial institutions for talent.

A failure to adequately address the competitive pressures we face could make it harder for us to attract and retain customers across our businesses. On the other hand, meeting these competitive pressures could require us to incur significant additional expense or to accept risk beyond what we would otherwise view as desirable under the circumstances. In addition, in our interest rate sensitive businesses, pressures to increase rates on deposits or decrease rates on loans could reduce our net interest margin with a resulting negative impact on our net interest income.

We continually encounter technological change and need to keep pace with this change in order to maintain or enhance the competitiveness of our businesses.

The financial services industry is undergoing rapid technological change with frequent introductions of new technology-driven products and services. Examples at the present time include expanded use of cloud computing, artificial intelligence and machine learning, virtual and augmented reality, biometric authentication, voice and natural language, and data protection enhancements, as well as increased on-line and mobile device interaction with customers. The effective use of technology increases efficiency and enables financial institutions to better serve customers and to reduce costs. We have been investing in technology and connectivity in order to automate functions previously performed manually, to facilitate the ability of customers to engage in financial transactions, and otherwise to enhance the customer experience with respect to our products and services. On the retail side, this has included developments such as more sophisticated ATMs (including the ability to cash checks using exact change), cashless bank branches, and expanded access to banking transactions (including mobile deposits, instant availability of funds, and real time payment processing) through the internet, smart phones, tablets and other mobile devices. These efforts have
all been in response to actual and anticipated customer behavior and expectations. Our continued success depends, in part, upon our ability to address the needs of our customers by using technology to provide products and services that satisfy customer demands, including demands for faster and more secure payment services, and create efficiencies in our operations. A failure to maintain or enhance our competitive position with respect to technology, whether because we fail to anticipate customer expectations or because our technological developments fail to perform as desired or are not rolled out in a timely manner, may cause us to lose market share or incur additional expense.

We depend on the effectiveness and integrity of our employees, systems and controls to manage operational risks.

We are a large organization that offers a wide variety of products and services to a broad and diverse group of customers. We are dependent on our employees, systems and controls to assure that we properly enter into, record and manage processes, transactions and other relationships with customers, suppliers and other parties with whom we do business, as well as to assure that we identify and mitigate the risks that are inherent in these relationships.

We necessarily rely on our employees or, in some cases, employees of third parties to perform these tasks and manage the resulting risks. As a result, we are vulnerable to human error, misconduct or malfeasance, leading potentially to operational breakdowns or other errors. In addition, when we change processes or procedures or introduce new products or services, we may fail to adequately identify or manage operational risks resulting from such changes. We have taken measures to manage and mitigate this risk, but our controls may not be adequate to prevent problems resulting from human involvement in our business, including risks associated with the design, operation and monitoring of automated systems.

Errors by our employees or those of third parties, whether accidental, intentional or fraudulent, or other failures of our systems and controls, including systems and controls that are automated, could result in customer remediation costs, regulatory fines or penalties, litigation or enforcement actions, or limitations on our business activities. They also could result in damage to our reputation and to our ability to attract and retain customers, with the reputational impact likely greater to the extent that the mistakes or failures are pervasive, longstanding or affect a significant number of customers, particularly retail consumers. It is possible that the damage to our reputation may be disproportionate to the actual harm suffered by our customers or may be severe even if we fully remediate any harm suffered by our customers.

It is not possible to prevent all errors of these types, and over the last several years, financial services organizations have been reported to have failed to adequately prevent, identify or respond to a broad range of operational risk matters with resulting consequences to the other organizations of the types described above. Recent examples include unauthorized account openings, assessment of inappropriate fees, and failure to report information timely to the government.

We depend on technology, both internally and through third-parties, to conduct our business and could suffer a material adverse impact from interruptions in the effective operation of, or security breaches affecting, those systems.

As a large financial company, we handle a substantial volume of customer and other financial transactions on a continuous basis. As a result, we rely heavily on information systems to conduct our business and to process, record and monitor our transactions and those of our customers. Over time, we have increased substantially in size, scope and complexity. We have also seen more customer usage of technological solutions for financial needs as well as higher expectations of customers and regulators regarding effective and safe systems operation. We expect these trends to continue for the foreseeable future. The need to ensure proper functioning and resiliency of these systems has become more challenging, and the costs involved in that effort are greater than ever.

The risks to these systems result from a variety of factors, both internal and external. In some cases, these factors relate to the potential for bad acts on the part of hackers, criminals, foreign governments or their agents, employees and others, and to some extent will be beyond our ability to prevent. In other cases, our systems could fail to operate as needed, including failures to prevent access in an unauthorized manner, due to factors such as design or performance issues, human error, unexpected transaction volumes or inadequate measures to protect against unauthorized access or transmissions. We are also at risk for the impact of natural or other disasters, terrorism, international hostilities and the like on our systems or for the effect of outages or other failures involving power, communications, or payment, clearing and settlement systems operated by others. In addition, we face a variety of types of cyber attacks, some of which are discussed in more detail below. Cyber attacks often include efforts to disrupt our ability to provide services or to gain access to, or destroy, confidential or proprietary company and customer information.

We rely on other companies for the provision of a broad range of products and services. Many of these products and services rely on information systems maintained by third parties or involve the use of such systems in connection with providing our products or services. In some cases, these other companies provide the infrastructure that supports communications, payment, clearing and settlement systems, or information processing and storage. These other companies are generally subject to many of the same risks we face with respect to our systems. To the extent we rely on these other companies, we could be adversely affected if they are impacted by system failures, cyber attacks or employee misconduct.

All of these types of events, whether resulting from cyber attacks or other internal or external sources, expose customer and other confidential information to security risks. They also could disrupt our ability to use our accounting, deposit, loan and other systems and could cause errors in transactions or system functionality with customers, vendors or other parties.

In addition, our customers often use their own devices, such as computers, smartphones and tablets, to do business with us and may provide their PNC customer information (including passwords) to a third party in connection with obtaining services from the third party. Although we take steps to provide safety and security for our customers' transactions with us and their customer information to the extent they are utilizing their own devices or providing third parties access to their accounts, our ability to assure such safety and security is necessarily limited.

We are faced with ongoing efforts by others to breach data security at financial institutions or with respect to financial transactions. Some of these involve efforts to enter our systems directly by going through or around our security protections. Others involve the use of schemes such as "phishing" to gain access to identifying customer information, often from customers themselves. Most corporate and commercial transactions are now handled electronically, and our retail customers increasingly use online access and mobile devices to bank with us. The ability to conduct business with us in this manner depends on the transmission of confidential information, which increases the risk of data security breaches.

As our customers regularly use PNC-issued credit and debit cards to pay for transactions with retailers and other businesses, there is the risk of data security breaches at those other businesses covering PNC account information. When our customers use PNC-issued cards to make purchases from those businesses, card account information may be provided to the business. If the business's systems that process or store card account information are subject to a data security breach, holders of our cards who have made purchases from that business may experience fraud on their card accounts. We may suffer losses associated with reimbursing our customers for such fraudulent transactions on customers' card accounts, as well as for other costs related to data security compromise events, such as replacing cards associated with compromised card accounts. In addition, we provide card transaction processing services to some merchant customers under agreements we have with payment networks such as Visa and MasterCard. Under these agreements, we may be responsible for certain losses and penalties if one of our merchant customers suffers a data security breach.

Over the last few years, several large companies disclosed that they had suffered substantial data security breaches compromising millions of user accounts and credentials. To date, our losses and costs related to these breaches have not been material, but other similar events in the future could be more significant to us.

There have been other recent publicly announced cyber attacks that were not focused on gaining access to credit card or user credential information but instead sought access to a

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range of other types of confidential information including internal emails and other forms of customer financial information. Ransomware attacks have sought to deny access to data and possibly shut down systems and devices maintained by target companies. In a ransomware attack, system data is encrypted or access is otherwise denied, accompanied by a demand for ransom to restore access to the data.

Other types of attacks in recent years have included distributed denial of service (DDoS) attacks, in which individuals or organizations flood commercial websites with extraordinarily high volumes of traffic with the goal of disrupting the ability of commercial enterprises to process transactions and possibly making their websites unavailable to customers for extended periods of time. We (as well as other financial services companies) have been subject to such attacks.

To date, these types of attacks have not had a material financial impact on us, but attacks on others demonstrate the risks posed by new and evolving types of cyber attacks. We could suffer material financial and reputational losses in the future from any of these or other types of attacks.

Methods used by others to attack information systems change frequently (with generally increasing sophistication), often are not recognized until launched against a target, may be supported by foreign governments or other well-financed entities, and may originate from less regulated and remote areas around the world. As a result, we may be unable to address these methods in advance of attacks, including our inability to implement adequate preventive measures.

In addition to threats from people external to us, insider threats represent a significant risk to us. Insiders, having legitimate access to our systems and the information contained in them, have the easiest opportunity to make inappropriate use of the systems and information. Addressing that risk requires understanding not only how to protect us from unauthorized use and disclosure of data, but also how to engage behaviorial analytics to identify potential internal threats before any damage is done.

We have policies, procedures and systems (including business continuity programs) designed to prevent or limit the effect of possible failures, interruptions or breaches in security of information systems. We design our business continuity and other information and technology risk management programs to manage our capabilities to provide services in the case of an event resulting in material disruptions of business activities affecting our employees, facilities, technology or suppliers. We regularly seek to test the effectiveness of and enhance these policies, procedures and systems. Nonetheless, we cannot guarantee the effectiveness of our policies, procedures and systems to protect us in any particular future situation.

Our ability to mitigate the adverse consequences of such occurrences is in part dependent on the quality of our business continuity planning, our ability to understand threats to us from a holistic perspective, and our ability to anticipate the timing and nature of any such event that occurs. The adverse impact of natural and other disasters, terrorist activities, international hostilities and the like could be increased to the extent that there is a lack of preparedness on the part of national or regional governments, including emergency responders, or on the part of other organizations and businesses with which we deal, particularly those on which we depend, many of which we have little or no control over.

In recent years, we have incurred significant expense towards improving the reliability of our systems and their security against external and internal threats. Even with our proactive and defensive measures in place, there remains the risk that one or more adverse events might occur. If one does occur, we might not be able to remediate the event or its consequences timely or adequately, particularly to the extent that it represents a novel or unusual threat. To the extent that the risk relates to products or services provided by others, we seek to engage in due diligence and monitoring to limit the risk, but here, as well, we cannot eliminate it. Should an adverse event affecting another company's systems occur, we may not have indemnification or other protection from the other company sufficient to compensate us or otherwise protect us from the consequences.

The occurrence of any failure, interruption or security breach of any of our information or communications systems, or the systems of other companies on which we rely, could result in a wide variety of adverse consequences to us. This risk is greater if the issue is widespread or results in financial losses to our customers. Possible adverse consequences include damage to our reputation or a loss of customer business. We also could face litigation or additional regulatory scrutiny, which in turn could lead to liability or other sanctions, including fines and penalties or reimbursement of customers adversely affected by a systems problem or security breach. Even if we do not suffer any material adverse consequences as a result of events affecting us directly, successful attacks or systems failures at other financial institutions could lead to a general loss of customer confidence in financial institutions, including us. Also, systems problems, including those resulting from third party attacks, whether at PNC or at our competitors, would likely broadly increase regulatory and customer concerns regarding the functioning, safety and security of such systems. In that case, we would expect to incur even higher levels of costs with respect to prevention and mitigation of these risks.

There are risks resulting from the extensive use of models in our business.

We rely on quantitative models to measure risks and to estimate certain financial values. Models may be used in such processes as determining the pricing of various products, grading loans and extending credit, measuring interest rate and other market risks, predicting or estimating losses, assessing capital adequacy, and calculating economic and regulatory capital levels, as well as to estimate the value of financial instruments and balance sheet items. Poorly designed or implemented models present the risk that our business decisions based on information incorporating model output will be adversely affected due to the inadequacy of that information. Also, information we provide to the public or to our regulators based on poorly designed or implemented models could be inaccurate or misleading. Some of the decisions that our regulators make, including those related to capital distributions to our shareholders, could be affected adversely due to their perception that the quality of the models used to generate the relevant information is insufficient.

Our business and financial results could be impacted materially by adverse results in legal proceedings.

Many aspects of our business involve substantial risk of legal liability. We have been named or threatened to be named as defendants in various lawsuits arising from our business activities (and in some cases from the activities of companies we have acquired). In addition, we are regularly the subject of governmental investigations and other forms of regulatory inquiry. We also are at risk when we have agreed to indemnify others for losses related to legal proceedings they face, including litigation and governmental investigations and inquiries, such as in connection with the sale of a business or assets by us. The results of these legal proceedings could lead to significant monetary damages or penalties, restrictions on the way in which we conduct our business, or reputational harm.

Although we establish accruals for legal proceedings when information related to the loss contingencies represented by those matters indicates both that a loss is probable and that the amount of loss can be reasonably estimated, we do not have accruals for all legal proceedings where we face a risk of loss. In addition, due to the inherent subjectivity of the assessments and unpredictability of the outcome of legal proceedings, amounts accrued may not represent the ultimate loss to us from the legal proceedings in question. Thus, our ultimate losses may be higher, and possibly significantly so, than the amounts accrued for legal loss contingencies. We discuss further the unpredictability of legal proceedings and describe certain of our pending legal proceedings in Note 19 Legal Proceedings in the Notes To Consolidated Financial Statements in Item 8 of this Report.

We grow our business in part by acquiring other financial services companies or assets from time to time, and these acquisitions present a number of risks and uncertainties related both to the acquisition transactions themselves and to the integration of the acquired businesses into PNC after closing.

Acquisitions of other financial services companies, financial assets and related deposits and other liabilities present risks and uncertainties to us in addition to those presented by the nature of the business acquired.

In general, acquisitions may be substantially more expensive or take longer to complete than anticipated (including unanticipated costs incurred in connection with the integration of the acquired company). Anticipated benefits (including anticipated cost savings and strategic gains, for example resulting from being able to offer product sets to a broader potential customer base) may be significantly harder or take longer to achieve than expected or may not be achieved in their entirety as a result of unexpected factors or events.

Our ability to achieve anticipated results from acquisitions is often dependent also on the extent of credit losses in acquired loan portfolios and the extent of deposit attrition, which are, in part, related to the state of economic and financial markets.

Also, litigation and governmental investigations that may be pending at the time of the acquisition or be filed or commenced thereafter, as a result of an acquisition or otherwise, could impact the timing or realization of anticipated benefits to us.

Integration of an acquired company's business and operations into PNC, including conversion of the acquired company's different systems and procedures, may take longer or be more costly than originally anticipated or have unanticipated adverse results relating to the acquired company's or our existing businesses. In some cases, acquisitions involve our entry into new businesses or new geographic or other markets, and these situations also present risks and uncertainties in instances where we may be inexperienced in these new areas.

Our ability to analyze the risks presented by prospective acquisitions, as well as our ability to prepare in advance of closing for integration, depends, in part, on the information we can gather with respect to the target, which is more limited than the information we have regarding companies we already own. As a regulated financial institution, our ability to pursue or complete attractive acquisition opportunities could be negatively impacted by regulatory delays or other regulatory issues. In addition, our ability to make large acquisitions in the future may be negatively impacted by regulatory rules or future regulatory initiatives designed to limit systemic risk and the potential for a financial institution to become "too big to fail."

Our business and financial performance could be adversely affected, directly or indirectly, by disasters, natural or otherwise, by terrorist activities or by international hostilities.

Neither the occurrence nor the potential impact of disasters (such as earthquakes, hurricanes, tornadoes, floods and other severe weather conditions, pandemics, dislocations, fires, explosions, and other catastrophic accidents or events), terrorist activities and international hostilities can be predicted. However, these occurrences could impact us directly (for example, by causing significant damage to our facilities or preventing us from conducting our business in the ordinary course), or indirectly as a result of their impact on our borrowers, depositors, other customers, suppliers or other counterparties. We could also suffer adverse consequences to the extent that disasters, terrorist activities or international hostilities affect the financial markets or the economy in general or in any particular region. These types of impacts

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could lead, for example, to an increase in delinquencies, bankruptcies or defaults that could result in our experiencing higher levels of nonperforming assets, net charge-offs and provisions for credit losses.

Our ability to mitigate the adverse consequences of such occurrences is in part dependent on the quality of our resiliency planning, and our ability, if any, to anticipate the nature of any such event that occurs. The adverse impact of disasters or terrorist activities or international hostilities also could be increased to the extent that there is a lack of preparedness on the part of national or regional emergency responders or on the part of other organizations and businesses that we deal with, particularly those that we depend upon but have no control over.

ITEM 1B – UNRESOLVED STAFF COMMENTS

There are no SEC staff comments regarding PNC's periodic or current reports under the Exchange Act that are pending resolution.

ITEM 2 – PROPERTIES

Our executive and primary administrative offices are currently located at The Tower at PNC Plaza, Pittsburgh, Pennsylvania. The 33-story structure is owned by PNC Bank, National Association.

We own or lease numerous other premises for use in conducting business activities, including operations centers, offices, and branches and other facilities. We consider the facilities owned or occupied under lease by our subsidiaries to be adequate for the purposes of our business operations. We include here by reference the additional information regarding our properties in Note 8 Premises, Equipment and Leasehold Improvements in the Notes To Consolidated Financial Statements in Item 8 of this Report.

ITEM 3 – LEGAL PROCEEDINGS

See the information set forth in Note 19 Legal Proceedings in the Notes To Consolidated Financial Statements in Item 8 of this Report, which is incorporated here by reference.

ITEM 4 – MINE SAFETY DISCLOSURES

Not applicable

EXECUTIVE OFFICERS OF THE REGISTRANT

Information regarding each of our executive officers as of February 22, 2018 is set forth below. Executive officers do not have a stated term of office. Each executive officer has held the position or positions indicated or another executive position with the same entity or one of its affiliates for the past five years unless otherwise indicated below.

Name	Age	Position with PNC	Year Employed (a)
William S. Demchak	55	Chairman, President and Chief Executive Officer (b)	2002
Orlando C. Esposito	59	Executive Vice President	1988
Michael J. Hannon	61	Executive Vice President and Chief Credit Officer	1982
Vicki C. Henn	49	Executive Vice President and Chief Human Resources Officer	1994
Gregory B. Jordan	58	Executive Vice President, General Counsel and Chief Administrative Officer	2013
Stacy M. Juchno	42	Executive Vice President and General Auditor	2009
Karen L. Larrimer	55	Executive Vice President, Chief Customer Officer and Head of Retail Banking	1995
Michael P. Lyons	47	Executive Vice President, Head of Corporate & Institutional Banking and Head of Asset Management Group	2011
E William Parsley, III	52	Executive Vice President and Chief Operating Officer	2003
Robert Q. Reilly	53	Executive Vice President and Chief Financial Officer	1987
Joseph E. Rockey	53	Executive Vice President and Chief Risk Officer	1999
Steven Van Wyk	59	Executive Vice President and Head of Technology and Innovation	2013
Gregory H. Kozich	54	Senior Vice President and Controller	2010

(a) Where applicable, refers to year employed by predecessor company.

(b) Mr. Demchak also serves as a director. Biographical information for Mr. Demchak is included in "Election of Directors (Item 1)" in our proxy statement for the 2018 annual meeting of shareholders. See Item 10 of this Report.

Orlando C. Esposito was appointed Executive Vice President in April 2013 and was head of PNC's Asset Management Group from April 2013 until December 2017. He held numerous leadership positions within Corporate Banking from November 2006 to April 2013. Mr. Esposito has announced that he will retire in the spring of 2018. Michael J. Hannon has served as Executive Vice President since February 2009. He has served as Chief Credit Officer since November 2001.

Vicki C. Henn has served as Executive Vice President and Chief Human Resources Officer of PNC since July 2014. Ms. Henn joined PNC in 1994 and has held numerous management positions. Prior to being named to her current position, Ms. Henn was responsible for Human Resources for Retail Banking.

Gregory B. Jordan joined PNC as Executive Vice President, General Counsel and Head of Regulatory and Government Affairs in October 2013. In February 2016, Mr. Jordan was also appointed Chief Administrative Officer. Prior to joining PNC, he served as the Global Managing Partner for the last 13 years of his 29 year tenure at Reed Smith LLP.

Stacy M. Juchno has served as Executive Vice President and General Auditor of PNC since April 2014. Ms. Juchno joined PNC in 2009 and previously served as Finance Governance and Oversight Director.

Karen L. Larrimer was appointed Executive Vice President in May 2013. Ms. Larrimer became head of PNC's Retail Banking in 2016. She has also served as Chief Customer Officer since April 2014, prior to which she served as Chief Marketing Officer.

Michael P. Lyons has been an Executive Vice President since November 2011 and is head of PNC's Corporate & Institutional Banking. Mr. Lyons assumed responsibility for PNC's Asset Management Group in January 2018.

E William Parsley, III has served as Executive Vice President since February 2009. In February 2018, Mr. Parsley was appointed Chief Operating Officer. Previously, he served as Treasurer and Chief Investment Officer since January 2004 and the head of Consumer Lending since the spring of 2016.

Robert Q. Reilly was appointed Chief Financial Officer in August 2013. He served as the head of PNC's Asset Management Group from 2005 until April 2013. He was appointed Executive Vice President in February 2009.

Joseph E. Rockey was appointed Executive Vice President and Chief Risk Officer in January 2015. Prior to his appointment, Mr. Rockey led enterprise risk management and the Basel office within PNC's risk management organization.

Steven Van Wyk joined PNC as Head of Technology and Operations in January 2013 and was appointed Head of Technology and Innovation in April 2017. From 2007 until joining PNC, Mr. Van Wyk served as Global Chief Operating Officer for ING. He was appointed Executive Vice President of PNC in February 2013.

Gregory H. Kozich has served as Controller of PNC since 2011. He was appointed as Senior Vice President in November 2010.

DIRECTORS OF THE REGISTRANT

The name, age and principal occupation of each of our directors as of February 22, 2018 and the year he or she first became a director is set forth below:

- Charles E. Bunch, 68, Retired Executive Chairman of PPG Industries, Inc. (*coatings, sealants and glass products*) (2007)
- Debra A. Cafaro, 60, Chairman of the Board and Chief Executive Officer of Ventas, Inc. (*real estate investment trust*) (2017)
- Marjorie Rodgers Cheshire, 49, President and Chief Operating Officer of A&R Development Corp. (*real estate development company*) (2014)
- William S. Demchak, 55, Chairman, President and Chief Executive Officer of PNC (2013)
- Andrew T. Feldstein, 53, Chief Executive Officer and Chief Investment Officer of BlueMountain Capital Management, LLC (asset management firm) (2013)
- Daniel R. Hesse, 64, Retired President and Chief Executive Officer of Sprint Corporation (*telecommunications*) (2016)
- Richard B. Kelson, 71, Chairman, President and Chief Executive Officer of ServCo LLC (*strategic sourcing*, *supply chain management*) (2002)
- Linda R. Medler, 61, Retired Brigadier General, United States Air Force and President and Chief Executive Officer of L A Medler & Associates, LLC (*cyber strategy consulting services*) (2018)
- Jane G. Pepper, 72, Retired President of the Pennsylvania Horticultural Society (*non-profit*) (1997)
- Martin Pfinsgraff, 63, Former Senior Deputy Comptroller of the Office of the Comptroller of the Currency (*federal agency*) (2018)
- Donald J. Shepard, 71, Retired Chairman of the Executive Board and Chief Executive Officer of AEGON N.V. (*insurance*) (2007)
- Lorene K. Steffes, 72, Independent Business Advisor (*executive, business management and technical expertise*) (2000)
- Dennis F. Strigl, 71, Retired President and Chief Operating Officer of Verizon Communications Inc. (*telecommunications*) (2001)
- Michael J. Ward, 67, Retired Chairman and Chief Executive Officer of CSX Corporation (*railroads, transportation*) (2016)
- Gregory D. Wasson, 59, Retired President and Chief Executive Officer of Walgreens Boots Alliance (pharmacy, health and wellbeing enterprise) (2015)

PART II

ITEM 5 – MARKET FOR REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY SECURITIES

(a) (1) Our common stock is listed on the New York Stock Exchange and is traded under the symbol "PNC." At the close of business on February 16, 2018, there were 57,157 common shareholders of record.

Holders of PNC common stock are entitled to receive dividends when declared by our Board of Directors out of funds legally available for this purpose. Our Board of Directors may not pay or set apart dividends on the common stock until dividends for all past dividend periods on any series of outstanding preferred stock and certain outstanding capital securities issued by the parent company have been paid or declared and set apart for payment. The Board of Directors presently intends to continue the policy of paying quarterly cash dividends. The amount of any future dividends will depend on economic and market conditions, our financial condition and operating results, and other factors, including contractual restrictions and applicable government regulations and policies (such as those relating to the ability of bank and non-bank subsidiaries to pay dividends to the parent company and regulatory capital limitations). The amount of our dividend is also currently subject to the results of the supervisory assessment of capital adequacy and capital planning processes undertaken by the Federal Reserve and our primary bank regulators as part of the Comprehensive Capital Analysis and Review (CCAR) process as described in the Supervision and Regulation section in Item 1 of this Report.

The Federal Reserve has the power to prohibit us from paying dividends without its approval. For further information concerning dividend restrictions and other factors that could limit our ability to pay dividends, as well as restrictions on loans, dividends or advances from bank subsidiaries to the parent company, see the Supervision and Regulation section in Item 1, Item 1A Risk Factors, the Capital and Liquidity Management portion of the Risk Management section in Item 7, and Note 10 Borrowed Funds, Note 15 Equity and Note 18 Regulatory Matters in the Notes To Consolidated Financial Statements in Item 8 of this Report, which we include here by reference.

We include here by reference additional information relating to PNC common stock under the Common Stock Prices/ Dividends Declared section in the Statistical Information (Unaudited) section of Item 8 of this Report.

We include here by reference the information regarding our compensation plans under which PNC equity securities are authorized for issuance as of December 31, 2017 in the table (with introductory paragraph and notes) in Item 12 of this Report.

Our stock transfer agent and registrar is: Computershare Trust Company, N.A. 250 Royall Street Canton, MA 02021 800-982-7652 www.computershare.com/pnc

Registered shareholders may contact Computershare regarding dividends and other shareholder services.

We include here by reference the information that appears under the Common Stock Performance Graph caption at the end of this Item 5.

- (a)(2) None.
- (b) Not applicable.
- (c) Details of our repurchases of PNC common stock during the fourth quarter of 2017 are included in the following table:

In thousands, except per share data

2017 period	Total shares purchased (a)	Average price paid per share	Total shares purchased as part of publicly announced programs (b)	Maximum number of shares that may yet be purchased under the programs (b)
October 1 – 31	1,092	\$ 135.97	1,065	43,308
November 1 – 30	1,159	\$ 134.65	1,159	42,149
December 1 – 31	1,512	\$ 144.56	1,512	40,637
Total	3,763	\$ 139.01		

- (a) Includes PNC common stock purchased in connection with our various employee benefit plans generally related to forfeitures of unvested restricted stock awards and shares used to cover employee payroll tax withholding requirements. Note 11 Employee Benefit Plans and Note 12 Stock Based Compensation Plans in the Notes To Consolidated Financial Statements in Item 8 of this Report include additional information regarding our employee benefit and equity compensation plans that use PNC common stock.
- On March 11 2015, we announced that our Board of Directors approved (b) the establishment of a stock repurchase program authorization in the amount of 100 million shares of PNC common stock, effective April 1, 2015. Repurchases are made in open market or privately negotiated transactions and the timing and exact amount of common stock repurchases will depend on a number of factors including, among others, market and general economic conditions, regulatory capital considerations, alternative uses of capital, the potential impact on our credit ratings, and contractual and regulatory limitations, including the results of the supervisory assessment of capital adequacy and capital planning processes undertaken by the Federal Reserve as part of the CCAR process. In June 2017, we announced share repurchase programs of up to \$2.7 billion for the four quarter period beginning with the third quarter of 2017, including repurchases of up to \$300 million related to employee benefit plans, in accordance with PNC's 2017 capital plan. In the fourth quarter of 2017, we repurchased 3.7 million shares of common stock on the open market, with an average price of \$139.05 per share and an aggregate repurchase price of \$.5 billion. See the Liquidity and Capital Management portion of the Risk Management section in Item 7 of this Report for more information on the share repurchase programs for the period July 1, 2017 through June 30, 2018 included in the 2017 capital plan accepted by the Federal Reserve.

Common Stock Performance Graph

This graph shows the cumulative total shareholder return (*i.e.*, price change plus reinvestment of dividends) on our common stock during the five-year period ended December 31, 2017, as compared with: (1) a selected peer group as set forth below and referred to as the "Peer Group;" (2) an overall stock market index, the S&P 500 Index; and (3) a published industry index, the S&P 500 Banks. The yearly points marked on the horizontal axis of the graph correspond to December 31 of each year. The stock performance graph assumes that \$100 was invested on January 1, 2013 for the five-year period and that any dividends were reinvested. The table below the graph shows the resultant compound annual growth rate for the performance period.



]	Base Period		Assumes \$100 investment at Close of Market on December 31, 2012 Total Return = Price change plus reinvestment of dividends									
		Dec. 2012	Dec. 2013	Dec. 2014	Dec. 2015	Dec. 2016	Dec. 2017						
PNC	\$	100	\$136.45	\$164.18	\$175.35	\$220.56	\$277.82	22.67%					
S&P 500 Index	\$	100	\$132.37	\$150.48	\$152.55	\$170.78	\$208.05	15.78%					
S&P 500 Banks	\$	100	\$135.72	\$156.78	\$158.10	\$196.54	\$240.87	19.22%					
Peer Group	\$	100	\$135.48	\$151.18	\$145.75	\$197.16	\$238.65	19.00%					

The Peer Group for the preceding chart and table consists of the following companies: Bank of America Corporation; BB&T Corporation; Capital One Financial Corporation; Fifth Third Bancorp; JPMorgan Chase & Co.; KeyCorp; M&T Bank Corporation; Regions Financial Corporation; SunTrust Banks, Inc.; The PNC Financial Services Group, Inc.; U.S. Bancorp; and Wells Fargo & Company. This Peer Group was approved for 2017 by the Board of Directors's Personnel and Compensation Committee. Such Committee has approved a peer group of thirteen for 2018, consisting of all the companies in the 2017 Peer Group and Citizens Financial Group, Inc. Each yearly point for the Peer Group is determined by calculating the cumulative total shareholder return for each company in the Peer Group from December 31, 2012 to December 31 of that year (End of Month Dividend Reinvestment Assumed) and then using the median of these returns as the yearly plot point. In accordance with the rules of the SEC, this section, captioned "Common Stock Performance Graph," is not incorporated by reference into any of our future filings made under the Securities Exchange Act of 1934 or the Securities Act of 1933. The Common Stock Performance Graph, including its accompanying table and footnotes, is not deemed to be soliciting material or to be filed under the Exchange Act or the Securities Act.

ITEM 6 - SELECTED FINANCIAL DATA

	Year ended December 31									
Dollars in millions, except per share data		2017		2016		2015		2014		2013
Summary of Operations	·									
Interest income	\$	10,814	\$	9,652	\$	9,323	\$	9,431	\$	10,007
Interest expense		1,706		1,261		1,045		906		860
Net interest income		9,108		8,391		8,278		8,525		9,147
Noninterest income		7,221		6,771		6,947		6,850		6,865
Total revenue		16,329		15,162		15,225		15,375		16,012
Provision for credit losses		441		433		255		273		643
Noninterest expense		10,398		9,476		9,463		9,488		9,681
Income before income taxes and noncontrolling interests		5,490		5,253		5,507		5,614		5,688
Income taxes		102		1,268		1,364		1,407		1,476
Net income		5,388		3,985		4,143		4,207		4,212
Less: Net income attributable to noncontrolling interests		50		82		37		23		11
Preferred stock dividends		236		209		220		232		237
Preferred stock discount accretion and redemptions		26		6		5		5		12
Net income attributable to common shareholders	\$	5,076	\$	3,688	\$	3,881	\$	3,947	\$	3,952
Per Common Share										
Basic earnings	\$	10.49	\$	7.42	\$	7.52	\$	7.44	\$	7.45
Diluted earnings	\$	10.36	\$	7.30	\$	7.39	\$	7.30	\$	7.36
Book value	\$	91.94	\$	85.94	\$	81.84	\$	77.61	\$	72.07
Cash dividends declared	\$	2.60	\$	2.12	\$	2.01	\$	1.88	\$	1.72
Effective tax rate (a)		1.9%		24.1%		24.8%		25.1%		25.9%

(a) The effective tax rates are generally lower than the statutory rate due to the relationship of pretax income to tax credits and earnings that are not subject to tax. The full year 2017 results benefited from the new federal tax legislation. Certain tax legislation amounts are considered reasonable estimates as of December 31, 2017. See the Critical Accounting Estimates and Judgments section in Item 7 of this Report for additional details.

Certain prior period amounts have been reclassified to conform with the current period presentation, which we believe is more meaningful to readers of our consolidated financial statements.

This Selected Financial Data should be reviewed in conjunction with the Consolidated Financial Statements and Notes included in Item 8 of this Report as well as the other disclosures in this Report concerning our historical financial performance, our future prospects and the risks associated with our business and financial performance.

	At or for the year ended December 31									
Dollars in millions, except as noted		2017		2016		2015		2014		2013
Balance Sheet Highlights										
Assets	\$			366,380		358,493		345,072	\$	320,192
Loans (a)	\$	220,458	\$	210,833	\$	206,696	\$	204,817	\$	195,613
Allowance for loan and lease losses	\$	2,611	\$	2,589	\$	2,727	\$	3,331	\$	3,609
Interest-earning deposits with banks (b)	\$	28,595	\$	25,711	\$	30,546	\$	31,779	\$	12,135
Investment securities	\$	76,131	\$	75,947	\$	70,528	\$	55,823	\$	60,294
Loans held for sale (a)	\$	2,655	\$	2,504	\$	1,540	\$	2,262	\$	2,255
Equity investments (c)	\$	11,392	\$	10,728	\$	10,587	\$	10,728	\$	10,560
Mortgage servicing rights	\$	1,832	\$	1,758	\$	1,589	\$	1,351	\$	1,636
Goodwill	\$	9,173	\$	9,103	\$	9,103	\$	9,103	\$	9,074
Other assets (a)	\$	27,894	\$	27,506	\$	26,566	\$	28,180	\$	28,191
Noninterest-bearing deposits	\$	79,864	\$	80,230	\$	79,435	\$	73,479	\$	70,306
Interest-bearing deposits	\$	185,189	\$	176,934	\$	169,567	\$	158,755	\$	150,625
Total deposits	\$	265,053	\$		\$		\$	232,234		220,931
Borrowed funds (a) (d)	\$	59,088	\$	52,706	\$	54,532	\$	56,768	\$	46,105
Total shareholders' equity	\$	47,513	\$	45,699	\$	44,710	\$	44,551	\$	42,334
Common shareholders' equity	\$	43,530	\$	41,723	\$	41,258	\$	40,605	\$	38,392
Accumulated other comprehensive income (loss)	\$	(148)	\$	(265)	\$		\$	503	\$	436
Period-end common shares outstanding (millions)		473		485		504		523	·	533
Client Investment Assets (billions)										
Discretionary client assets under management	\$	151	\$	137	\$	134	\$	135	\$	127
Nondiscretionary client assets under administration	Ŷ	131	Ψ	120	Ψ	119	Ψ	123	Ψ	116
Total client assets under administration (e)		282		257		253		258		243
Brokerage account client assets		49		44		43		43		41
Total	\$	331	\$	301	\$		\$	301	\$	284
Selected Ratios	Ŧ		<u> </u>				<u> </u>			
Net interest margin (f)		2.87%		2.73%		2.74%		3.08%		3.57%
Noninterest income to total revenue		44%		45%		46%		45%		43%
Efficiency		64%		62%		62%		62%		60%
Return on		01/0		0270		0270		0270		0070
Average common shareholders' equity (g)		12.09%		8.85%		9.50%		9.91%		10.85%
Average assets (g)		1.45%		1.10%		1.17%		1.28%		1.38%
Loans to deposits		83%		82%		83%		88%		89%
Dividend payout		24.7%		29.0%		27.0%		25.3%		23.1%
Transitional Basel III common equity Tier 1 capital ratio (h) (i) (j)		10.4%		10.6%		10.6%		10.9%		N/A
Transitional Basel III Tier 1 risk-based capital ratio (h) (j)		11.6%		12.0%		12.0%		12.6%		N/A
Pro forma fully phased-in Basel III common equity Tier 1 capital ratio		11.070		12.070		12.070		12.070		14/71
(Non-GAAP) (i) (j) (k)		9.8%		10.0%		10.0%		10.0%		9.4%
Basel I Tier 1 common capital ratio (j)		N/A		N/A		N/A		N/A		10.5%
Basel I Tier 1 risk-based capital ratio (j)		N/A		N/A		N/A		N/A		12.4%
Common shareholders' equity to total assets		11.4%		11.4%		11.5%		11.8%		12.0%
Average common shareholders' equity to average assets		11.3%		11.5%		11.5%		12.1%		11.9%
Selected Statistics										
Employees		52,906		52,006		52,513		53,587		54,433
Retail Banking branches		2,459		2,520		2,616		2,697		2,714
ATMs		9.051		9.024		8,956		8,605		7,445

(a) Includes assets and liabilities for which we have elected the fair value option. See the Consolidated Balance Sheet and Note 6 Fair Value in Item 8 of this Report for additional information.

(b) Includes balances held with the Federal Reserve Bank of Cleveland of \$28.3 billion, \$25.1 billion, \$30.0 billion, \$31.4 billion and \$11.7 billion as of December 31, 2017, 2016, 2015, 2014 and 2013, respectively.

(c) Includes our equity interest in BlackRock.

(d) Includes long-term borrowings of \$43.1 billion, \$38.3 billion, \$43.6 billion, \$41.5 billion and \$27.6 billion for 2017, 2016, 2015, 2014 and 2013, respectively. Borrowings which mature more than one year after December 31, 2017 are considered to be long-term.

(e) As a result of certain investment advisory services performed by one of our registered investment advisors, certain assets were previously reported as both discretionary client assets under management and nondiscretionary client assets under administration. Effective for the first quarter of 2017, these amounts are only reported as discretionary assets under management. Prior periods were adjusted to remove amounts previously included in nondiscretionary assets under administration of approximately \$9 billion, \$6 billion, \$5 billion and \$4 billion at December 31, 2016, 2015, 2014 and 2013, respectively.

(f) Calculated as taxable-equivalent net interest income divided by average earning assets. To provide more meaningful comparisons of net interest margins, we use net interest income on a taxable-equivalent basis in calculating net interest margin by increasing the interest income earned on tax-exempt assets to make it fully equivalent to interest income earned on taxable investments. This adjustment is not permitted under GAAP in the Consolidated Income Statement. For additional information, see Reconciliation of Taxable-Equivalent Net Interest Income Statistical Information (Unaudited) in Item 8 of this Report.

(g) The full year 2017 results benefited from the new federal tax legislation. Certain tax legislation amounts are considered reasonable estimates as of December 31, 2017. See the Critical Accounting Estimates and Judgments section in Item 7 of this Report for additional details.

(h) Calculated using the regulatory capital methodology applicable to us during each period presented.

(i) See capital ratios discussion in the Supervision and Regulation section of Item 1 and in the Liquidity and Capital Management portion of the Risk Management section in Item 7 of this Report for additional discussion on these capital ratios.

(j) See additional information on the pro forma ratios, Transitional Basel III ratios and the Basel I ratios in the Statistical Information (Unaudited) section in Item 8 of this Report.

(k) The pro forma ratios for all periods presented were calculated under the standardized approach. The 2013 ratio has not been updated to reflect the first quarter 2014 adoption of ASU 2014-01 related to investments in low income housing tax credits.

ITEM 7 – MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS (MD&A)

EXECUTIVE SUMMARY

Key Strategic Goals

At PNC we manage our company for the long term. We are focused on the fundamentals of growing customers, loans, deposits and revenue and improving profitability, while investing for the future and managing risk, expenses and capital. We continue to invest in our products and services, and markets and brand, and embrace our commitments to our customers, shareholders, employees and the communities where we do business.

We strive to expand and deepen customer relationships by offering a broad range of deposit, credit and fee-based products and services. We are focused on delivering those products and services to our customers with the goal of addressing their financial objectives and putting customers' needs first. Our business model is built on customer loyalty and engagement, understanding our customers' financial goals and offering our diverse products and services to help them achieve financial well-being. Our approach is concentrated on organically growing and deepening client relationships across our businesses that meet our risk/return measures.

We are focused on our strategic priorities, which are designed to enhance value over the long term, and consist of:

- Expanding our leading banking franchise to new markets and digital platforms;
- Deepening customer relationships by delivering a superior banking experience and financial solutions; and
- Leveraging technology to innovate and enhance products, services, security and processes.

Our capital priorities are to support client growth and business investment, maintain appropriate capital in light of economic conditions and the Basel III framework and return excess capital to shareholders, in accordance with the currently effective capital plan included in our Comprehensive Capital Analysis and Review (CCAR) submission to the Board of Governors of the Federal Reserve System (Federal Reserve). For more detail, see the Capital Highlights portion of this Executive Summary and the Liquidity and Capital Management portion of the Risk Management section of this Item 7 and the Supervision and Regulation section in Item 1 Business of this Report.

Key Factors Affecting Financial Performance

We face a variety of risks that may impact various aspects of our risk profile from time to time. The extent of such impacts may vary depending on factors such as the current economic, political and regulatory environment, merger and acquisition activity and operational challenges. Many of these risks and our risk management strategies are described in more detail elsewhere in this Report. Our financial performance is substantially affected by a number of external factors outside of our control, including the following:

- Global and domestic economic conditions, including the continuity, speed and stamina of the current U.S. economic expansion;
- The monetary policy actions and statements of the Federal Reserve and the Federal Open Market Committee (FOMC);
- The level of, and direction, timing and magnitude of movement in, interest rates and the shape of the interest rate yield curve;
- The functioning and other performance of, and availability of liquidity in, the capital and other financial markets;
- Changes in the competitive and regulatory landscape;
- The impact of legislative, regulatory and administrative initiatives and actions;
- The impact of market credit spreads on asset valuations;
- The ability of customers, counterparties and issuers to perform in accordance with contractual terms, and the resulting impact on our asset quality;
- Loan demand, utilization of credit commitments and standby letters of credit; and
- The impact on customers and changes in customer behavior due to changing business and economic conditions or regulatory or legislative initiatives, including newly enacted federal tax legislation.

In addition, our success will depend upon, among other things:

- Effectively managing capital and liquidity including:
 - Continuing to maintain and grow our deposit base as a low-cost stable funding source;
 - Prudent liquidity and capital management to meet evolving regulatory capital, capital planning, stress testing and liquidity standards; and
 - Actions we take within the capital and other financial markets.
- Management of credit risk in our portfolio;
- Execution of our strategic priorities;
- Our ability to manage and implement strategic business objectives within the changing regulatory environment;
- The impact of legal and regulatory-related contingencies; and
- The appropriateness of reserves needed for critical accounting estimates and related contingencies.

For additional information, see the Cautionary Statement Regarding Forward-Looking Information section in this Item 7 and Item 1A Risk Factors in this Report.

Income Statement Highlights

Net income for 2017 was \$5.4 billion, or \$10.36 per diluted common share, an increase of 35% compared to \$4.0 billion, or \$7.30 per diluted common share, for 2016.

- Total revenue increased \$1.2 billion, or 8%, to \$16.3 billion.
 - Net interest income increased \$717 million, or 9%, to \$9.1 billion.
 - Net interest margin increased to 2.87% for 2017 compared to 2.73% for 2016.
 - Noninterest income increased \$450 million, or 7%, to \$7.2 billion.
- Provision for credit losses was \$441 million in 2017 compared to \$433 million for 2016.
- Noninterest expense increased \$922 million, or 10%, to \$10.4 billion.
- Income tax expense decreased to \$102 million in 2017 compared to \$1.3 billion in 2016.

PNC's full year and fourth quarter 2017 reported net income and earnings per share benefited from the new federal tax legislation, the Tax Cuts and Jobs Act, and were also impacted by other significant items, described in more detail below:

- Total revenue increase of \$28 million.
 - Net interest income decrease of \$26 million due to the impact of tax legislation on leveraged leases.
 - Noninterest income increase of \$54 million consisting of :
 - \$254 million increase in asset management noninterest income as a result of the flow through impact of tax legislation from our equity investment in BlackRock.
 - \$119 million increase in other noninterest income for appreciation of BlackRock common stock contributed to the PNC Foundation.
 - Negative fair value adjustments in the fourth quarter of 2017 of \$248 million in other noninterest income related to Visa Class B derivatives and \$71 million in residential mortgage noninterest income for servicing rights assumption updates.
- Noninterest expense increase of \$502 million consisting of:
 - \$200 million contribution of BlackRock common stock to the PNC Foundation.
 - \$197 million of charges for real estate dispositions and exits.
 - \$105 million for employee cash payments and pension account credits.
- Income tax expense benefit of \$1.2 billion from tax legislation primarily attributable to revaluation of net deferred tax liabilities and \$230 million from the tax effect of the aforementioned other significant items.

For additional detail, please see the Consolidated Income Statement Review section of this Item 7.

Balance Sheet Highlights

Our balance sheet was strong and well positioned at December 31, 2017. Compared to December 31, 2016:

- Total loans increased \$9.6 billion, or 5%, to \$220.5 billion.
 - Total commercial lending grew \$9.5 billion, or 7%.
 - Total consumer lending increased \$.1 billion.
- Total deposits increased \$7.9 billion, or 3%, to \$265.1 billion.
- Investment securities increased \$.2 billion to \$76.1 billion.
- Interest earning deposits with banks, primarily with the Federal Reserve Bank, increased \$2.9 billion, or 11%, to \$28.6 billion.

For additional detail, see the Consolidated Balance Sheet Review section of this Item 7.

Credit Quality Highlights

Overall credit quality remained stable in 2017 compared to 2016.

- Nonperforming assets decreased \$339 million, or 14%, to \$2.0 billion at December 31, 2017 compared to December 31, 2016.
- Overall loan delinquencies of \$1.5 billion at December 31, 2017 decreased \$56 million, or 4%, compared to December 31, 2016.
- Net charge-offs of \$457 million in 2017 decreased compared to net charge-offs of \$543 million for 2016.
- The allowance for loan and lease losses to total loans was 1.18% at December 31, 2017 compared to 1.23% at December 31, 2016.

For additional detail, see the Credit Risk Management portion of the Risk Management section of this Item 7.

Capital Highlights

We maintained a strong capital position during 2017 and continued to return capital to shareholders.

- The Transitional Basel III common equity Tier 1 capital ratio was 10.4% at December 31, 2017 compared to 10.6% at December 31, 2016.
- Pro forma fully phased-in Basel III common equity Tier 1 capital ratio, a non-GAAP financial measure, was an estimated 9.8% at December 31, 2017 compared to 10.0% at December 31, 2016 based on the standardized approach rules.
- For the full year 2017, we returned \$3.6 billion of capital to shareholders through repurchases of 18.6 million common shares for \$2.3 billion and dividends on common shares of \$1.3 billion.
- Common shareholders' equity increased to \$43.5 billion at December 31, 2017 compared to \$41.7 billion at December 31, 2016.

See the Liquidity and Capital Management portion of the Risk Management section of this Item 7 for more detail on our 2017 capital and liquidity actions as well as our capital ratios.

Our ability to take certain capital actions, including plans to pay or increase common stock dividends or to repurchase shares under current or future programs, is subject to the results of the supervisory assessment of capital adequacy undertaken by the Federal Reserve as part of the CCAR process. For additional information, see the Supervision and Regulation section in Item 1 Business of this Report.

Business Outlook

Statements regarding our business outlook are forwardlooking within the meaning of the Private Securities Litigation Reform Act of 1995. Our forward-looking statements are subject to the risk that economic and financial market conditions will be substantially different than those we are currently expecting and do not take into account potential legal and regulatory contingencies. These statements are based on our current view that U.S. economic growth will accelerate somewhat in 2018, in light of the recently passed corporate and personal income tax cuts that are expected to support business investment and consumer spending, respectively. Further gradual improvement in the labor market this year, including job gains and rising wages, is another positive for consumer spending. Other sources of growth for the U.S. economy in 2018 will be the global economic expansion and the housing market. Although inflation slowed in 2017, it should pick up as the labor market continues to tighten. Shortterm interest rates and bond yields are expected to rise throughout 2018; PNC's baseline forecast is for three increases in the federal funds rate in 2018, pushing the rate to a range of 2.00 to 2.25 percent by the end of the year. Longerterm rates are also expected to increase as the Federal Reserve slowly reduces the size of its balance sheet and the federal government borrows more, but at a slower pace than shortterm rates, so we anticipate the yield curve will flatten but not invert. See the Cautionary Statement Regarding Forward-Looking Information section in this Item 7 and Item 1A Risk Factors in this Report for other factors that could cause future events to differ, perhaps materially, from those anticipated in these forward-looking statements.

Our outlook for certain financial information for full year and first quarter 2018 is compared to full year and fourth quarter 2017 results as adjusted for the tax legislation and significant items described in the Income Statement Highlights section of this Executive Summary. For additional information on financial results for the fourth quarter of 2017, see the Selected Quarterly Financial Data section in the Statistical Information (Unaudited) section of Item 8 of this Report.

For full year 2018 compared to full year 2017 on an adjusted basis, we expect:

- Loan growth to be up mid-single digits, on a percentage basis;
- Revenue to increase mid-single digits, on a percentage basis;
- Noninterest expense to increase by low-single digits, on a percentage basis; and
- The effective tax rate to be approximately 17%.

For the first quarter of 2018 compared to the fourth quarter of 2017 on an adjusted basis, we expect:

- Modest loan growth;
- Stable net interest income;
- Fee income to decrease by low mid-single digits, on a percentage basis, mainly attributable to lower first quarter client activity and elevated fourth quarter fees. Fee income consists of asset management, consumer services, corporate services, residential mortgage and service charges on deposits;
- Other noninterest income to be between \$250 million and \$300 million;
- Provision for credit losses to be between \$100 million and \$150 million; and
- Noninterest expense to decrease by low-single digits, on a percentage basis.

CONSOLIDATED INCOME STATEMENT REVIEW

Our Consolidated Income Statement is presented in Item 8 of this Report.

Net income for 2017 was \$5.4 billion, or \$10.36 per diluted common share, an increase of 35% compared with \$4.0 billion, or \$7.30 per diluted common share, for 2016. Higher net income was driven by an 8% increase in total revenue and a tax benefit from the new federal tax legislation, partially offset by a 10% increase in noninterest expense. Revenue growth resulted from a 9% increase in net interest income and a 7% increase in noninterest income.

Net Interest Income

Table 1: Summarized Average Balances and Net Interest Income (a)

2017 Average Yields/ Rates	Interest Income/ Expense		Average Balances	2016 Average Yields/ Rates	Interest Income/ Expense
Yields/ Rates	Income/			Yields/	Income/
2.740/ \$					
2740/ \$					
2740/ \$					
2.74% \$	2,059	\$	72,046	2.62% \$	1,889
3.86%	8,390		208,817	3.61%	7,543
1.11%	267		26,328	.52%	136
3.48%	313		7,843	3.56%	279
3.39%	11,029	\$	315,034	3.13%	9,847
.35%	623	\$	172,764	.25%	430
1.90%	1,083		52,939	1.57%	831
.72%	1,706	\$	225,703	.56%	1,261
2.87%	9,323			2.73%	8,586
	(215)				(195)
\$	9,108			\$	8,391
	1.11% 3.48% 3.39% .35% 1.90% .72% 2.87%	3.86% 8,390 1.11% 267 3.48% 313 3.39% 11,029 .35% 623 1.90% 1,083 .72% 1,706 2.87% 9,323 (215) (215)	3.86% 8,390 1.11% 267 3.48% 313 3.39% 11,029 .35% 623 .35% 623 .35% 1,083 .72% 1,706 2.87% 9,323 (215)	3.86% 8,390 208,817 1.11% 267 26,328 3.48% 313 7,843 3.39% 11,029 \$ 315,034	3.86% 8,390 208,817 3.61% 1.11% 267 26,328 .52% 3.48% 313 7,843 3.56% 3.39% 11,029 \$ 315,034 3.13% .35% 623 \$ 172,764 .25% 1.90% 1,083 52,939 1.57% .72% 1,706 \$ 225,703 .56% 2.87% 9,323 2.73%

(a) Interest income calculated as taxable-equivalent interest income. To provide more meaningful comparisons of interest income and yields for all interest-earning assets, as well as net interest margins, we use interest income on a taxable-equivalent basis in calculating average yields and net interest margins by increasing the interest income earned on tax-exempt assets to make it fully equivalent to interest income earned on taxable investments. This adjustment is not permitted under GAAP on the Consolidated Income Statement. For more information, see Reconciliation of Taxable-Equivalent Net Interest Income in the Statistical Information (Unaudited) section in Item 8 of this Report.

Changes in net interest income and margin result from the interaction of the volume and composition of interest-earning assets and related yields, interest-bearing liabilities and related rates paid, and noninterest-bearing sources of funding. See the Statistical Information (Unaudited) – Average Consolidated Balance Sheet And Net Interest Analysis and Analysis Of Year-To-Year Changes In Net Interest Income in Item 8 of this Report.

Net interest income increased \$717 million, or 9%, in 2017 compared with 2016 due to increases in loan and securities balances and yields, partially offset by an increase in borrowing and deposit costs. Net interest margin increased largely reflecting the benefit to loans and securities yields from higher interest rates in 2017.

Average investment securities increased \$3.0 billion, or 4%, reflecting net purchases of U.S. Treasury and government agency securities of \$2.9 billion and agency residential mortgage-backed securities of \$2.8 billion, partially offset by declines in average commercial mortgage-backed securities of \$1.6 billion and non-agency residential mortgage-backed securities of \$.8 billion. Total investment securities were 23% of average interest-earning assets in both 2017 and 2016.

Average loans grew by \$8.5 billion, or 4%, reflecting an increase in average commercial lending of \$8.4 billion driven by broad-based growth in our Corporate Banking, Real Estate, Equipment Finance and Business Credit businesses in our Commercial & Institutional Banking segment. Growth in Equipment Finance included the impact of the acquisition of a commercial and vendor finance business with \$1.0 billion of loans and leases in the second quarter of 2017. Average consumer lending increased \$.1 billion in the comparison, as growth in average residential real estate, automobile and credit card loans was substantially offset by declines in average home equity and education loans. These declines reflected run-off in the non-strategic consumer loan portfolios of brokered home equity and government guaranteed education loans. Average loans represented 67% of average interestearning assets in 2017 compared to 66% in 2016.

Average total deposits increased \$7.2 billion, or 3%, primarily due to growth in average interest-bearing deposits of \$6.7 billion, or 4%, driven by higher average savings deposits of \$13.1 billion. This increase reflected a shift, in part, to relationship-based savings products from money market deposits, which decreased \$9.2 billion. Additionally, average interest-bearing demand deposits grew \$4.3 billion, mainly attributable to the higher interest rate environment and customer growth. Average interest-bearing deposits represented 76% of average interest-bearing liabilities in 2017 compared to 77% in 2016.

Further details regarding average loans and deposits are included in the Business Segments Review section of this Item 7.

Noninterest Income

Table 2: Noninterest Income

Year ended December 31				ge	
Dollars in millions	2017	2016		\$	%
Noninterest income					
Asset management	\$1,942	\$1,521	\$	421	28 %
Consumer services	1,415	1,388		27	2 %
Corporate services	1,621	1,504		117	8 %
Residential mortgage	350	567		(217)	(38)%
Service charges on deposits	695	667		28	4 %
Other	1,198	1,124		74	7 %
Total noninterest income	\$7,221	\$6,771	\$	450	7%

Noninterest income as a percentage of total revenue was 44% for 2017 and 45% for 2016.

Asset management revenue increased reflecting higher earnings from our equity investment in BlackRock, including a \$254 million flow through impact of the new federal tax legislation on our equity investment. Additionally, the impact of stronger equity markets contributed to the increase. Discretionary client assets under management in our Asset Management Group segment increased to \$151 billion at December 31, 2017 compared with \$137 billion at December 31, 2016, primarily attributable to higher equity markets.

Growth in consumer service fees was primarily due to a \$25 million increase in credit card fees, net of rewards, and debit card fees, which reflected continued momentum in customer activity in both transaction trends and customer growth. In addition, brokerage fees increased \$17 million, driven by higher brokerage assets under management. These increases were partially offset by individually insignificant items.

Corporate services revenue reflected broad based growth, including higher merger and acquisition (M&A) advisory fees of \$65 million and an increase in loan syndication and agency fees of \$28 million, both of which reflected continued momentum in the M&A market. Higher treasury management revenue also contributed to the increase in corporate services revenue.

Lower residential mortgage revenue reflected a decline of \$122 million in residential mortgage servicing rights valuation, net of economic hedge, which included a \$71 million negative adjustment for mortgage servicing rights fair value assumption updates in the fourth quarter of 2017. In addition, the decrease reflected lower loan sales revenue of \$85 million, which was driven by lower origination volume and compressed pricing margins.

Higher service charges on deposits reflected net growth of \$30 million related to fee income on personal deposit accounts, reflecting higher levels of customer activity.

The increase in other noninterest income included higher revenue from private equity investments of \$172 million and \$119 million for the appreciation of BlackRock common stock used to fund PNC's fourth quarter 2017 contribution to the PNC Foundation. The increase in revenue from private equity investments reflected positive impacts from valuation adjustments on equity investments subject to the Volcker Rule provision of Dodd-Frank. Additionally, operating lease income increased related to the commercial and vendor finance business acquired in the second quarter of 2017.

These increases were largely offset by the impact of negative derivative fair value adjustments related to Visa Class B common shares of \$280 million in 2017, including \$248 million in the fourth quarter primarily related to the extension of anticipated timing of litigation resolution. Derivative fair value adjustments relate to swap agreements with purchasers of Visa shares in connection with all prior sales to date. In 2016, gains on sales of Visa Class B common shares, net of derivative fair value adjustments, were \$32 million.

Other noninterest income typically fluctuates from period to period depending on the nature and magnitude of transactions completed. Further details regarding our customer-related trading activities are included in the Market Risk Management – Customer-Related Trading Risk portion of the Risk Management section of this Item 7. Further details regarding private and other equity investments are included in the Market Risk Management – Equity and Other Investment Risk section, and further details regarding gains or losses related to our equity investment in BlackRock are included in the Business Segments Review section of this Item 7.

Effective for the first quarter of 2018, and as a result of the commercial and vendor finance business we acquired in the second quarter of 2017, we intend to classify operating lease income as corporate services noninterest income on the Consolidated Income Statement. In 2017 and prior years, this revenue was classified as other noninterest income, and these periods will be reclassified to reflect this change.

Provision for Credit Losses

Overall credit quality remained stable in 2017. The provision for credit losses was \$441 million compared to \$433 million in 2016. The provision for 2017 reflected loan growth, including an initial provision for the loan and lease portfolio obtained through the business acquired in the second quarter of 2017, mostly offset by lower provisions in the oil, gas and coal sectors.

³⁴ The PNC Financial Services Group, Inc. – Form 10-K

The Credit Risk Management portion of the Risk Management section of this Item 7 includes additional information regarding factors impacting the provision for credit losses.

Noninterest Expense

Table 3: Noninterest Expense

Year ended December 31			Char	nge
Dollars in millions	2017	2016	 \$	%
Noninterest expense				
Personnel	\$ 5,224	\$4,841	\$ 383	8 %
Occupancy	868	861	7	1 %
Equipment	1,065	974	91	9 %
Marketing	244	247	(3)	(1)%
Other	2,997	2,553	444	17 %
Total noninterest expense	\$ 10,398	\$9,476	\$ 922	10 %

Noninterest expense increased reflecting higher levels of business activity and ongoing investments in technology and business infrastructure. The increase in personnel expense also included the fourth quarter 2017 announcement of employee cash payments and pension account credits totaling \$105 million. In addition, charges for real estate dispositions and exits, including data centers, totaled \$197 million in the fourth quarter of 2017, primarily within other noninterest expense.

Other noninterest expense for 2017 included the fourth quarter \$200 million contribution of BlackRock common stock to the PNC Foundation. Contributions to the PNC Foundation in 2016 were \$75 million.

CONSOLIDATED BALANCE SHEET REVIEW

Table 4: Summarized Balance Sheet Data

During 2017, we completed actions and achieved our 2017 continuous improvement program savings goal of \$350 million, which funded a significant portion of our business and technology investments, including our Retail branch strategy, enhanced digital capabilities and our home lending transformation. In 2018, we have a goal of \$250 million in cost savings through our continuous improvement program, which we expect will partially fund our ongoing business and technology investments.

Effective Income Tax Rate

An income tax benefit of \$1.2 billion was recorded in the fourth quarter of 2017 related to the new tax legislation and was primarily attributable to the revaluation of net deferred tax liabilities at the lower statutory tax rate of 21%. As a result, the effective income tax rate for 2017 was 1.9% compared with 24.1% for 2016. Certain tax legislation amounts are considered reasonable estimates as of December 31, 2017. See the Critical Accounting Estimates and Judgments section in this Item 7 for additional details.

The effective tax rate is generally lower than the statutory rate primarily due to tax credits we receive from our investments in low income housing and new markets investments, as well as earnings in other tax exempt investments.

Additional information regarding our effective tax rate is included in the Reconciliation of Statutory and Effective Tax Rates table in Note 17 Income Taxes in the Notes To Consolidated Financial Statements included in this Report.

	 December 31			Change		
Dollars in millions	2017		2016	\$	%	
Assets						
Interest-earning deposits with banks	\$ 28,595	\$	25,711	\$ 2,8	84 11 %	
Loans held for sale	2,655		2,504	1	51 6 %	
Investment securities	76,131		75,947	1	84 —	
Loans	220,458		210,833	9,6	25 5 %	
Allowance for loan and lease losses	(2,611)		(2,589)	(22) (1)%	
Mortgage servicing rights	1,832		1,758		74 4 %	
Goodwill	9,173		9,103		70 1 %	
Other, net	44,535		43,113	1,4	22 3 %	
Total assets	\$ 380,768	\$	366,380	\$ 14,3	88 4 %	
Liabilities						
Deposits	\$ 265,053	\$	257,164	\$ 7,8	89 3 %	
Borrowed funds	59,088		52,706	6,3	82 12 %	
Other	9,042		9,656	(6	14) (6)%	
Total liabilities	333,183		319,526	13,6	57 4 %	
Equity						
Total shareholders' equity	47,513		45,699	1,8	14 4 %	
Noncontrolling interests	72		1,155	(1,0	83) (94)%	
Total equity	47,585		46,854	7	31 2 %	
Total liabilities and equity	\$ 380,768	\$	366,380	\$ 14,3	88 4 %	

The summarized balance sheet data in Table 4 is based upon our Consolidated Balance Sheet in Item 8 of this Report.

Our balance sheet grew compared to December 31, 2016 and we had strong liquidity and capital positions at December 31, 2017.

- Total assets increased driven by strong loan growth and higher interest-earning deposits with banks;
- Total liabilities increased due to deposit growth and higher borrowed funds;
- Total equity increased due to higher retained earnings driven by net income, partially offset by common share repurchases and a decline in noncontrolling interests related to the redemption of Perpetual Trust Securities in the first quarter of 2017.

The following discussion provides additional information about the major components of our balance sheet. Information regarding our capital and regulatory compliance is included in the Liquidity and Capital Management portion of the Risk Management section of this Item 7 and in Note 18 Regulatory Matters in our Notes To Consolidated Financial Statements included in this Report.

Loans

Table 5: Loans

	December 31	December 31	Change				
Dollars in millions	2017	2016	\$%				
Commercial lending							
Commercial	\$ 110,527	\$ 101,364	\$9,163 9 %				
Commercial real estate	28,978	29,010	(32) —				
Equipment lease financing	7,934	7,581	353 5 %				
Total commercial lending	147,439	137,955	9,484 7 %				
Consumer lending							
Home equity	28,364	29,949	(1,585) (5)%				
Residential real estate	17,212	15,598	1,614 10 %				
Credit card	5,699	5,282	417 8 %				
Other consumer							
Automobile	12,880	12,380	500 4 %				
Education	4,454	5,159	(705) (14)%				
Other	4,410	4,510	(100) (2)%				
Total consumer lending	73,019	72,878	141 —				
Total loans	\$ 220,458	\$ 210,833	\$9,625 5 %				

Commercial loans increased \$9.2 billion, or 9%, reflecting broad based growth across our lending businesses, including Corporate Banking, Business Credit and Equipment Finance within our Corporate & Institutional Banking segment. In Corporate Banking, commercial loans increased \$3.9 billion, or 8%, largely due to increased lending related to M&A activity and strong growth in middle market lending. In Business Credit, new originations and higher utilization resulted in an increase of \$2.0 billion, or 14%, in the comparison.

Additionally, commercial loans and equipment lease financing loans increased as a result of new production in the Equipment Finance business, as well as the acquisition of a commercial and vendor finance business with \$1.0 billion of loans and leases during the second quarter of 2017.

For commercial loans by industry and commercial real estate loans by geography, see Loan Portfolio Characteristics and Analysis in the Credit Risk Management portion of the Risk Management section in this Item 7.

Growth in consumer lending balances was driven by higher residential real estate, automobile and credit card loans, partially offset by lower home equity and education loans.

Residential real estate loans increased as a result of growth in originations of nonconforming residential mortgage loans, both nationwide and within our branch network. Nonconforming residential mortgage loans are those with loan amounts above government agency standards for conforming loan amount limits.

Automobile loans grew in part due to continued expansion in our Southeast markets. Higher credit card balances reflected an increase in new accounts, due in part to the introduction of a new credit card product, as well as higher purchase volume. Decreases in home equity and education loans included the continued runoff in our non-strategic brokered home equity and government guaranteed education loan portfolios. The decline in home equity also reflected decreases due to paydowns and payoffs exceeding new originated volume. For information on home equity and residential real estate loans, including by geography, and automobile loans, see Loan Portfolio Characteristics and Analysis in the Credit Risk Management portion of the Risk Management section in this Item 7.

For additional information regarding our loan portfolio, see the Credit Risk Management portion of the Risk Management section in this Item 7 and Note 1 Accounting Policies, Note 3 Asset Quality and Note 4 Allowance for Loan and Lease Losses in our Notes To Consolidated Financial Statements included in Item 8 of this Report.

Investment Securities

Table 6: Investment Securities

	December	r 31, 2017	December 31, 2016			As of D			
Dollars in millions	Amortized Cost	Fair Value	Amortized Cost	Fair Value	AAA/ AA	А	BBB	BB and Lower	No Rating
U.S. Treasury and government agencies	\$ 15,173	\$ 15,286	\$ 13,627	\$ 13,714	100%				
Agency residential mortgage-backed	40,037	39,847	37,319	37,109	100%				
Non-agency residential mortgage-backed	2,610	2,932	3,382	3,564	11%		3%	77%	9%
Agency commercial mortgage-backed	2,367	2,315	3,053	3,046	100%				
Non-agency commercial mortgage-backed (b)	3,141	3,161	4,590	4,602	81%	6%			13%
Asset-backed (c)	5,531	5,598	6,496	6,524	86%	3%	5%	6%	
Other debt (d)	6,279	6,459	6,679	6,810	75%	15%	7%	1%	2%
Other	587	585	603	601					100%
Total investment securities (e)	\$ 75,725	\$ 76,183	\$ 75,749	\$ 75,970	92%	2%	1%	3%	2%

(a) Ratings percentages allocated based on amortized cost.

(b) Collateralized primarily by retail properties, office buildings, lodging properties and multi-family housing.

(c) Collateralized primarily by corporate debt, government guaranteed education loans and other consumer credit products.

(d) Includes state and municipal securities.

(e) Includes available for sale and held to maturity securities, which are recorded on our balance sheet at fair value and amortized cost, respectively.

Investment securities increased \$.2 billion at December 31, 2017 compared to December 31, 2016. Growth in investment securities was driven by net purchases of agency residential mortgage-backed securities of \$2.7 billion and U.S. Treasury and government agencies securities of \$1.6 billion, partially offset by declines in commercial mortgage-backed securities of \$2.2 billion, asset-backed securities of \$.9 billion and non-agency residential mortgage-backed securities of \$.6 billion.

The level and composition of the investment securities portfolio fluctuates over time based on many factors including market conditions, loan and deposit growth, and balance sheet management activities. We manage our investment securities portfolio to optimize returns, while providing a reliable source of liquidity for our banking and other activities, considering LCR and other internal and external guidelines and constraints.

Table 6 presents the distribution of our investment securities portfolio by credit rating. We have included credit ratings information because we believe that the information is an indicator of the degree of credit risk to which we are exposed, which could affect our risk-weighted assets and, therefore, our risk-based regulatory capital ratios under the regulatory capital rules. Changes in credit ratings classifications could indicate increased or decreased credit risk and could be accompanied by a reduction or increase in the fair value of our investment securities portfolio. At least quarterly, we conduct a comprehensive security-level impairment assessment on all securities. If economic conditions, including home prices, were to deteriorate from current levels, and if market volatility and liquidity were to deteriorate from current levels, or if market interest rates were to increase or credit spreads were to widen appreciably, the valuation of our investment securities portfolio would likely be adversely affected and we could incur additional other than temporary impairment (OTTI) credit losses that would impact our Consolidated Income Statement.

The duration of investment securities was 3.2 years at December 31, 2017. We estimate that at December 31, 2017 the effective duration of investment securities was 3.4 years for an immediate 50 basis points parallel increase in interest rates and 3.0 years for an immediate 50 basis points parallel decrease in interest rates. Comparable amounts at December 31, 2016 for the effective duration of investment securities were 3.1 years and 2.9 years, respectively.

Based on expected prepayment speeds, the weighted-average expected maturity of the investment securities portfolio (excluding other) was 5.2 years at December 31, 2017 compared to 5.0 years at December 31, 2016.

Table 7: Weighted-Average Expected Maturities of Mortgageand Other Asset-Backed Debt Securities

December 31, 2017	Years
Agency residential mortgage-backed	5.8
Non-agency residential mortgage-backed	6.0
Agency commercial mortgage-backed	3.6
Non-agency commercial mortgage-backed	3.5
Asset-backed	2.5

Additional information regarding our investment securities is included in Note 5 Investment Securities and Note 6 Fair Value in the Notes To Consolidated Financial Statements included in this Report.

Funding Sources

Table 8: Details of Funding Sources

	December 31	December 31	Chang	e
Dollars in millions	2017	2016	\$	%
Deposits				
Noninterest-bearing	\$ 79,864	\$ 80,230	\$ (366)	
Interest-bearing				
Money market	59,735	63,946	(4,211)	(7)%
Demand	61,213	58,472	2,741	5 %
Savings	46,980	36,956	10,024	27 %
Time deposits	17,261	17,560	(299)	(2)%
Total deposits	265,053	257,164	7,889	3 %
Borrowed funds				
FHLB borrowings	21,037	17,549	3,488	20 %
Bank notes and senior debt	28,062	22,972	5,090	22 %
Subordinated debt	5,200	8,009	(2,809)	(35)%
Other	4,789	4,176	613	15 %
Total borrowed funds	59,088	52,706	6,382	12 %
Total funding sources	\$ 324,141	\$ 309,870	\$14,271	5 %

Growth in savings deposits reflected, in part, a shift from consumer money market to relationship-based savings products. Money market deposits declined due to the shift to savings products, which was partially offset by growth of \$3.5 billion in commercial interest-bearing money market deposits. Interest-bearing demand deposits reflected growth in consumer deposits of \$1.7 billion and higher commercial deposits of \$1.0 billion.

Growth in both bank notes and senior debt and FHLB borrowings were driven by new issuances outpacing maturities and calls. These increases were partially offset by subordinated debt maturities. The level and composition of borrowed funds fluctuates over time based on many factors including market conditions, loan, investment securities and deposit growth, and capital considerations. We manage our borrowed funds to provide a reliable source of liquidity for our banking and other activities, considering LCR and other internal and external guidelines and constraints.

See the Liquidity and Capital Management portion of the Risk Management section of this Financial Review for additional information regarding our 2017 capital and liquidity activities.

Shareholders' Equity

Total shareholders' equity was \$47.5 billion at December 31, 2017, an increase of \$1.8 billion compared to December 31, 2016. Higher retained earnings, which reflected net income of \$5.4 billion reduced by \$1.5 billion of common and preferred dividends, was partially offset by common share repurchases of \$2.3 billion.

Common shares outstanding were 473 million and 485 million at December 31, 2017, and December 31, 2016, respectively, as repurchases of 18.6 million shares during 2017 were partially offset by share issuances from treasury stock related to warrants exercised and stock-based compensation activity.

BUSINESS SEGMENTS REVIEW

Effective for the first quarter of 2017, as a result of changes to how we manage our businesses, we realigned our segments and, accordingly, have changed the basis of presentation of our segments, resulting in four reportable business segments:

- Retail Banking
- Corporate & Institutional Banking
- Asset Management Group
- BlackRock

Our changes in business segment presentation resulting from the realignment included the following:

- The Residential Mortgage Banking segment was combined into Retail Banking as a result of our strategic initiative to transform the home lending process by integrating mortgage and home equity lending to enhance product capability and speed of delivery for a better customer experience and to improve efficiency. In conjunction with this shift, residential mortgages previously reported within the "Other" category were also moved to Retail Banking.
- The Non-Strategic Assets Portfolio segment was eliminated. The segment's remaining consumer assets were moved to the "Other" category as they are unrelated to the ongoing strategy of any segment, while its commercial assets were transferred to Corporate & Institutional Banking in order to continue the relationships we have with those customers.
- A portion of business banking clients was moved from Retail Banking to Corporate & Institutional Banking to facilitate enhanced product offerings to meet the financial needs of our business banking clients.

Net interest income in business segment results reflects our internal funds transfer pricing methodology. Assets receive a funding charge and liabilities and capital receive a funding credit based on a transfer pricing methodology that incorporates product repricing characteristics, tenor and other factors. Effective for the first quarter of 2017, we made certain adjustments to our internal funds transfer pricing methodology primarily relating to weighted average lives of certain nonmaturity deposits based on our recent historical experience. These changes in methodology affected business segment results, primarily adversely impacting net interest income for Corporate & Institutional Banking and Retail Banking, offset by increased net interest income in the "Other" category.

All prior periods presented were revised to conform to the new segment alignment and to our change in internal funds transfer pricing methodology.

Business segment results and a description of each business are included in Note 22 Segment Reporting included in the Notes To Consolidated Financial Statements in Item 8 of this Report. Certain amounts included in this Business Segments Review differ from those amounts shown in Note 22, primarily due to the presentation in this Item 7 of business net interest revenue on a taxable-equivalent basis. Note 22 presents results of businesses for 2017, 2016 and 2015.

Our business segment results reflect the allocation of the impact of the new tax legislation to our business segments, primarily the revaluation of the net deferred tax positions allocated to the segments. Certain tax legislation amounts are considered reasonable estimates as of December 31, 2017. See the Critical Accounting Estimates and Judgments section in this Item 7 for additional details.

Total business segment financial results differ from total consolidated net income. The impact of these differences is reflected in the "Other" category in the business segment tables. "Other" includes residual activities that do not meet the criteria for disclosure as a separate reportable business, such as asset and liability management activities including net securities gains or losses, other-than-temporary impairment of investment securities, certain trading activities, certain nonstrategic runoff consumer loan portfolios, private equity investments, intercompany eliminations, most corporate overhead, tax adjustments that are not allocated to business segments, gains or losses related to BlackRock transactions, integration costs, exited businesses, and differences between business segment performance reporting and financial statement reporting (GAAP), including the presentation of net income attributable to noncontrolling interests as the segments' results exclude their portion of net income attributable to noncontrolling interests.

Retail Banking

(Unaudited)

Table 9: Retail Banking Table

Year ended December 31			Change	e
Dollars in millions, except as noted	2017	2016	\$	%
Net interest income	\$ 4,626	\$ 4,511	\$ 115	3 %
Noninterest income	2,236	2,693	(457)	(17)%
Total revenue	6,862	7,204	(342)	(5)%
Provision for credit losses	347	297	50	17 %
Noninterest expense	5,451	5,291	160	3 %
Pretax earnings	1,064	1,616	(552)	(34)%
Income taxes	534	593	(59)	(10)%
Earnings	\$ 530	\$ 1,023	\$ (493)	(48)%
AVERAGE BALANCE SHEET				
Loans held for sale	\$ 799	\$ 942	\$ (143)	(15)%
Loans				
Consumer				
Home equity	\$ 25,278	\$ 26,204	\$ (926)	(4)%
Automobile	12,407	11,248	1,159	10 %
Education	4,832	5,562	(730)	(13)%
Credit cards	5,248	4,889	359	7 %
Other	1,773	1,789	(16)	(1)%
Total consumer	49,538	49,692	(154)	
Commercial and commercial real estate	10,767	11,410	(643)	(6)%
Residential mortgage	12,238	10,682	1,556	15 %
Total loans	\$ 72,543	\$ 71,784	\$ 759	1 %
Total assets	\$ 88,663	\$ 85,871	\$ 2,792	3 %
Deposits				
Noninterest-bearing demand	\$ 29,788	\$ 28,364	\$ 1,424	5 %
Interest-bearing demand	40,958	38,584	2,374	6 %
Money market	36,592	44,855	(8,263)	(18)%
Savings	38,802	27,340	11,462	42 %
Certificates of deposit	13,135	14,770	(1,635)	(11)%
Total deposits	\$ 159,275	\$ 153,913	\$ 5,362	3 %
PERFORMANCE RATIOS				
Return on average assets	.60%	1.19%		
Noninterest income to total revenue	33%	37%		
Efficiency	79%	73%		

					Chang	e	
2017			2016	\$		%	
\$	1,079	\$	1,061	\$	18	2 %	
\$	312	\$	295	\$	17	6 %	
\$	350	\$	567	\$	(217)	(38)%	
\$	668	\$	639	\$	29	5 %	
\$	127	\$	125	\$	2	2 %	
\$	19	\$	19		_		
\$	1.2	\$	1.2		_		
	92		94		(2)	(2)%	
\$	187	\$	192	\$	(5)	(3)%	
\$	(30)	\$	92	\$	(122)	*	
\$	9.0	\$	10.6	\$	(1.6)	(15)%	
	2.80%		3.17%				
	53%		40%				
	47%		60%				
	53%		49%				
	62%		58%				
\$	1,129	\$	1,257	\$	(128)	(10)%	
\$	371	\$	351	\$	20	6 %	
	9,051		9,024		27	_	
	2,459		2,520		(61)	(2)%	
\$	49	\$	44	\$	5	11 %	
	\$ \$ \$ \$ \$ \$ \$ \$ \$	\$ 1,079 \$ 312 \$ 350 \$ 668 \$ 127 \$ 19 \$ 1.2 92 \$ 187 \$ (30) \$ 9.0 2.80% 53% 47% 53% 62% \$ 1,129 \$ 371 9,051 2,459	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	

* - Not Meaningful

Represents mortgage loan servicing balances for third parties and the related income. (a)

Presented as of December 31, except for customer-related statistics, which are averages for the year ended, and net charge-offs, which are for the year ended. (b)

Servicing fees net of impact of decrease in MSR value due to passage of time, including the impact from both regularly scheduled loan prepayments and loans that were paid (c) down or paid off during the period.

(d) Mortgages with borrowers as part of residential real estate purchase transactions.

Percentage of total consumer and business banking deposit transactions processed at an ATM or through our mobile banking application. (e)

Represents consumer checking relationships that process the majority of their transactions through non-teller channels. (f)

Includes nonperforming loans of \$1.1 billion and \$1.2 billion at December 31, 2017 and December 31, 2016, respectively. (g)

Excludes stand-alone mortgage offices and satellite offices (e.g., drive-ups, electronic branches and retirement centers) that provide limited products and/or services. (h) (i) Includes cash and money market balances.

Retail Banking earned \$530 million in 2017 compared with \$1.0 billion in 2016. The decrease in earnings was driven by lower noninterest income, increased noninterest expense and income tax expense, which reflected the impact of new federal tax legislation, partially offset by higher net interest income.

Net interest income increased due to higher interest rate spread on the value of deposits and increases in deposit balances, partially offset by interest rate spread compression on the value of loans.

Noninterest income declined in the comparison due to negative derivative fair value adjustments related to Visa Class B common shares of \$280 million in 2017, including \$248 million in the fourth quarter primarily related to the extension of anticipated timing of litigation resolution. Derivative fair value adjustments relate to swap agreements with purchasers of Visa shares in connection with all prior sales to date. In 2016, gains on sales of Visa Class B common shares, net of derivative fair value adjustments, were \$32 million. Residential mortgage loan sales revenue declined as a result of lower origination volume and compressed pricing margins compared to 2016. Residential mortgage servicing rights

valuation, net of economic hedge, decreased compared with 2016 and included a \$71 million negative adjustment for residential mortgage servicing rights fair value assumption updates in the fourth quarter of 2017. These decreases were partially offset by higher debit card, brokerage and credit card fees, net of rewards, as well as higher service charges on deposits.

Provision for credit losses increased in the comparison, reflecting loan growth and higher delinquencies in auto and credit card.

The increase in noninterest expense in the comparison primarily resulted from investments in technology and higher personnel and compliance expense.

Income taxes reflected \$139 million of expense as a result of the new federal tax legislation relating to the revaluation of net deferred tax assets.

Retail Banking continues to enhance the customer experience with refinements to product and service offerings that drive value for consumers and small businesses. We are focused on meeting the financial needs of our customers by providing a broad range of liquidity, banking and investment products.

The deposit strategy of Retail Banking is to remain disciplined on pricing and focused on growing and retaining relationshipbased balances, executing on market-specific deposit growth strategies and providing a source of low-cost funding and liquidity to PNC. In 2017, average total deposits increased compared to 2016, driven by growth in savings deposits reflecting, in part, a shift from money market deposits to relationship-based savings products. Additionally, demand deposits increased, partially offset by a decline in certificates of deposit due to the net runoff of maturing accounts.

Retail Banking average total loans grew in 2017 compared with 2016:

- Average residential mortgages increased as a result of growth in originations of nonconforming residential mortgage loans, both nationwide and within our branch network.
- Average automobile loans increased primarily due to portfolio growth, including growth in our Southeast markets.
- Average credit card balances increased as a result of organic growth as we continued to focus on delivering on our long-term objective of deepening penetration within our existing customer base.
- Average home equity loans decreased as paydowns and payoffs on loans exceeded new originated volume. The weighted-average updated FICO scores for this portfolio were 749 at December 31, 2017 and 746 at December 31, 2016.

- Average commercial and commercial real estate loans declined as paydowns and payoffs on loans exceeded new volume.
- In 2017, average loan balances for the education and other loan portfolios decreased \$746 million, or 10%, compared to 2016, driven by declines in the government guaranteed education and indirect other portfolios, which are primarily runoff portfolios.

Nonperforming assets decreased compared to December 31, 2016 due to declines in both consumer and commercial nonperforming loans.

Retail Banking continued to focus on its strategy of reinventing the retail banking experience by transforming the customer experience through transaction migration, branch network and home lending transformations and multi-channel engagement and service strategies.

- In 2017, approximately 62% of consumer customers used non-teller channels for the majority of their transactions compared with 58% for 2016.
- Deposit transactions via ATM and mobile channels increased to 53% of total deposit transactions in 2017 compared with 49% for 2016.
- We had a network of 2,459 branches and 9,051 ATMs at December 31, 2017.
- Instant debit card issuance, which enables us to print a customer's debit card in minutes, was available in 90% of the branch network as of December 31, 2017.

Retail Banking continued to make progress on its multi-year initiative to redesign the home lending process by integrating mortgage and home equity lending into a common platform to enhance product capability and improve speed of delivery and convenience.

- We implemented a new mortgage origination system in the fourth quarter of 2017.
- Loans continue to be originated primarily through direct channels under Federal National Mortgage Association (FNMA), Federal Home Loan Mortgage Corporation (FHLMC) and Federal Housing Administration (FHA)/Department of Veterans Affairs agency guidelines.

Corporate & Institutional Banking

(Unaudited)

Table 10: Corporate & Institutional Banking Table

Year ended December 31	 	 	 Change	
Dollars in millions, except as noted	2017	2016	 \$	%
INCOME STATEMENT				
Net interest income	\$ 3,551	\$ 3,312	\$ 239	7 %
Noninterest income	2,271	2,035	236	12 %
Total revenue	5,822	 5,347	 475	9 %
Provision for credit losses	160	177	(17)	(10)%
Noninterest expense	2,428	2,222	206	9 %
Pretax earnings	3,234	2,948	 286	10 %
Income taxes	770	1,039	(269)	(26)%
Earnings	\$ 2,464	\$ 1,909	\$ 555	29 %
AVERAGE BALANCE SHEET				
Loans held for sale	\$ 898	\$ 868	\$ 30	3 %
Loans				
Commercial	\$ 96,937	\$ 88,934	\$ 8,003	9 %
Commercial real estate	27,372	26,677	695	3 %
Equipment lease financing	7,619	7,463	156	2 %
Total commercial lending	 131,928	123,074	 8,854	7 %
Consumer	233	424	(191)	(45)%
Total loans	\$ 132,161	\$ 123,498	\$ 8,663	7 %
Total assets	\$ 148,414	\$ 140,309	\$ 8,105	6 %
Deposits				
Noninterest-bearing demand	\$ 47,264	\$ 48,072	\$ (808)	(2)%
Money market	22,464	22,543	(79)	_
Other	16,389	13,943	2,446	18 %
Total deposits	\$ 86,117	\$ 84,558	\$ 1,559	2 %
PERFORMANCE RATIOS				
Return on average assets	1.66%	1.36%		
Noninterest income to total revenue	39%	38%		
Efficiency	42%	42%		
OTHER INFORMATION				
Consolidated revenue from: (a)				
Treasury Management (b)	\$ 1,516	\$ 1,348	\$ 168	12 %
Capital Markets (b)	\$ 1,017	\$ 808	\$ 209	26 %
Commercial mortgage banking activities				
Commercial mortgage loans held for sale (c)	\$ 115	\$ 127	\$ (12)	(9)%
Commercial mortgage loan servicing income (d)	228	248	(20)	(8)%
Commercial mortgage servicing rights valuation, net of economic hedge (e)	54	44	10	23 %
Total	\$ 397	\$ 419	\$ (22)	(5)%
MSR asset value (f)	\$ 668	\$ 576	\$ 92	16 %
Average Loans by C&IB Business				
Corporate Banking	\$ 55,701	\$ 51,392	\$ 4,309	8 %
Real Estate	38,235	36,493	1,742	5 %
Business Credit	15,804	14,763	1,041	7 %
Equipment Finance	13,408	11,826	1,582	13 %
Commercial	7,028	7,159	(131)	(2)%
Other	1,985	1,865	 120	6 %
Total average loans	\$ 132,161	\$ 123,498	\$ 8,663	7 %
Credit-related statistics				
Nonperforming assets (f) (g)	\$ 531	\$ 691	\$ (160)	(23)%
Net charge-offs	\$ 93	\$ 180	\$ (87)	(48)%

(continued on following page)

(continued from previous page)

- (a) Represents consolidated amounts. See the additional revenue discussion regarding treasury management, capital markets-related products and services, and commercial mortgage banking activities in the Product Revenue section of this Corporate & Institutional Banking section.
- (b) Includes amounts reported in net interest income and noninterest income, predominantly in corporate service fees.
- (c) Includes other noninterest income for valuations on commercial mortgage loans held for sale and related commitments, derivative valuations, originations fees, gains on sale of loans held for sale and net interest income on loans held for sale.
- (d) Includes net interest income and noninterest income (primarily in corporate service fees) from loan servicing net of reduction in commercial mortgage servicing rights due to time decay and payoffs. Commercial mortgage servicing rights valuation, net of economic hedge is shown separately.
- (e) Includes amounts reported in corporate service fees.
- (f) As of December 31.
- (g) Includes nonperforming loans of \$.5 billion and \$.6 billion at December 31, 2017 and December 31, 2016, respectively.

Corporate & Institutional Banking earned \$2.5 billion in 2017 compared to \$1.9 billion in 2016. The increase was primarily due to higher revenue and lower income tax expense, which reflected the impact of new federal tax legislation, partially offset by higher noninterest expense. We continue to focus on building client relationships where the risk-return profile is attractive.

Net interest income increased in the comparison, reflecting higher average loan and deposit balances as well as interest rate spread expansion on deposits.

Growth in noninterest income was primarily driven by higher capital markets-related revenue, including merger and acquisition advisory fees, loan syndication fees and underwriting fees. Additionally, operating lease income increased, mainly due to the acquisition of a commercial and vendor finance business with \$1.0 billion of loans and leases in the second quarter of 2017. Higher treasury management fees also contributed to the increase in noninterest income.

The decrease in provision for credit losses reflected lower provision in the oil, gas and coal sectors, partially offset by an initial provision for the loan and lease portfolio obtained through the acquired business and loan growth.

Noninterest expense increased in the comparison largely driven by higher variable compensation commensurate with increased business activity, operating expenses related to the acquired business and continued investments in technology and infrastructure.

Income tax expense reflected a benefit of \$373 million as a result of the new tax legislation, primarily related to revaluation of net deferred tax liabilities.

Average loans increased compared with 2016 reflecting broad-based growth:

- Corporate Banking provides lending, treasury management and capital markets-related products and services to midsized and large corporations, government and not-for-profit entities. Average loans for this business grew in the comparison reflecting increased lending to large and midsized corporate clients as well as strong production in specialty lending verticals.
- PNC Real Estate provides banking, financing and servicing solutions for commercial real estate clients across the country. Higher average loans for this business were primarily due to growth in commercial mortgage and commercial loans, and to a lesser extent project loans.
- PNC Business Credit provides asset-based lending. The loan portfolio is relatively high yielding, with acceptable risk as the loans are mainly secured by short-term assets. Average loans for this business increased due to new originations and increased utilization, partially offset by payoffs.
- PNC Equipment Finance provides equipment financing solutions for clients throughout the U.S. and Canada. Average loans, including commercial loans and finance leases, and operating leases totaled \$14.3 billion in 2017, an increase of \$1.8 billion compared with 2016 due to new production and the business acquired in the second quarter of 2017.
- Commercial Banking provides lending, treasury management and capital markets-related products and services to smaller corporations and businesses. Average loans for this business decreased slightly primarily due to strategic risk/return considerations.

The deposit strategy of Corporate & Institutional Banking is to remain disciplined on pricing and focus on growing and retaining relationship-based balances over time, executing on customer and segment-specific deposit growth strategies and continuing to provide funding and liquidity to PNC. In 2017, average total deposits increased compared to 2016 driven by growth in interest-bearing demand deposits reflecting in part a shift from noninterest-bearing deposits in the rising rate environment. We continue to monitor and balance the relationship between increases in rates paid and overall profitability of our deposit balances.

In 2017, Corporate & Institutional Banking opened offices in Dallas, Kansas City and Minneapolis as part of a multi-year expansion of our middle market banking business. These locations complement national Corporate & Institutional Banking businesses with operations in these cities, and build on past success in markets where PNC's retail banking presence was limited, such as in the Southeast. We plan to offer our entire suite of commercial products and services. We have also formalized plans to expand our middle market business into the Denver, Houston and Nashville markets in 2018.

Product Revenue

In addition to credit and deposit products for commercial customers, Corporate & Institutional Banking offers other services, including treasury management, capital markets-related products and services, and commercial mortgage banking activities, for customers of all business segments. On a consolidated basis, the revenue from these other services is included in net interest income, corporate service fees and other noninterest income. From a segment perspective, the majority of the revenue and expense related to these services is reflected in the Corporate & Institutional Banking segment results and the remainder is reflected in the results of other businesses. The Other Information section in Table 10 includes the consolidated revenue to PNC for these services. A discussion of the consolidated revenue from these services follows.

Treasury management services include cash and investment management, receivables management, disbursement services, funds transfer services, information reporting and global trade services. Treasury management revenue comprises fees from products and services and net interest income from customer deposit balances. Compared with 2016, treasury management revenue increased due to liquidity-related revenue associated with customer deposit balances, including interest rate spread expansion, and higher fee income.

Capital markets-related products and services include foreign exchange, derivatives, securities underwriting, loan syndications, mergers and acquisitions advisory and equity capital markets advisory related services. The increase in revenue in the comparison was broad based across most products and services and included higher merger and acquisition advisory fees and higher fees from loan syndications and underwriting activities.

Commercial mortgage banking activities include revenue derived from commercial mortgage servicing (including net interest income and noninterest income) and revenue derived from commercial mortgage loans held for sale and related hedges. Total revenue from commercial mortgage banking activities decreased in the comparison as declines in commercial mortgage loan servicing income and commercial mortgage loans held for sale revenue were partially offset by a higher benefit from commercial mortgage servicing rights valuation, net of economic hedge.

Asset Management Group

(Unaudited)

Table 11: Asset Management Group Table

Year ended December 31			Change	e
Dollars in millions, except as noted	2017	2016	\$	%
INCOME STATEMENT				
Net interest income	\$ 287	\$ 300	\$ (13)	(4)%
Noninterest income	881	851	30	4 %
Total revenue	1,168	1,151	 17	1 %
Provision for credit losses (benefit)	1	(6)	7	*
Noninterest expense	863	825	38	5 %
Pretax earnings	304	332	 (28)	(8)%
Income taxes	102	122	(20)	(16)%
Earnings	\$ 202	\$ 210	\$ (8)	(4)%
AVERAGE BALANCE SHEET				
Loans				
Consumer	\$ 5,018	\$ 5,436	\$ (418)	(8)%
Commercial and commercial real estate	715	754	(39)	(5)%
Residential mortgage	1,301	1,058	243	23 %
Total loans	\$ 7,034	\$ 7,248	\$ (214)	(3)%
Total assets	\$ 7,511	\$ 7,707	\$ (196)	(3)%
Deposits				
Noninterest-bearing demand	\$ 1,528	\$ 1,431	\$ 97	7 %
Interest-bearing demand	3,628	4,013	(385)	(10)%
Money market	3,158	4,128	(970)	(23)%
Savings	3,947	2,303	1,644	71 %
Other	250	275	(25)	(9)%
Total deposits	\$ 12,511	\$ 12,150	\$ 361	3 %
PERFORMANCE RATIOS				
Return on average assets	2.69%	2.72%		
Noninterest income to total revenue	75%	74%		
Efficiency	74%	72%		
OTHER INFORMATION				
Nonperforming assets (a) (b)	\$ 49	\$ 53	\$ (4)	(8)%
Net charge-offs	\$ 4	\$ 9	\$ (5)	(56)%
CLIENT ASSETS UNDER ADMINISTRATION (in billions) (a) (c) (d)				
Discretionary client assets under management	\$ 151	\$ 137	\$ 14	10 %
Nondiscretionary client assets under administration	131	120	11	9 %
Total	\$ 282	\$ 257	\$ 25	10 %
Discretionary client assets under management				
Personal	\$ 94	\$ 85	\$ 9	11 %
Institutional	57	52	5	10 %
Total	\$ 151	\$ 137	\$ 14	10 %

* - Not meaningful

(a) As of December 31.

(b) Includes nonperforming loans of \$44 million at December 31, 2017 and \$46 million at December 31, 2016.

(c) Excludes brokerage account client assets.

(d) Effective for the first quarter of 2017, we have adjusted nondiscretionary client assets under administration for prior periods to remove assets which, as a result of certain investment advisory services performed by one of our registered investment advisors, were previously reported as both discretionary client assets under management and nondiscretionary client assets under administration. Effective for the first quarter of 2017, these amounts are only reported as discretionary assets under management. The prior period presented was adjusted to remove approximately \$9 billion as of December 31, 2016 previously included in nondiscretionary assets under administration.

Asset Management Group earned \$202 million in 2017 compared with \$210 million in 2016. Earnings decreased as higher revenue and lower income tax expense, which reflected the impact of new federal tax legislation, was more than offset by higher noninterest expense.

The increase in revenue in the comparison was driven by higher noninterest income from asset management fees due to stronger average equity markets. This increase was partially offset by lower net interest income due to lower average home equity loan balances and interest rate spread compression on residential mortgages.

Noninterest expense increased in 2017 compared to 2016 primarily attributable to higher compensation, technology and vendor-related expenses.

Asset Management Group's strategy is focused on growing investable assets by continually evolving the client experience and products and services. The business offers an open architecture platform with a full array of investment products and banking solutions.

Wealth Management and Hawthorn have nearly 100 offices operating in seven of the ten most affluent states in the U.S. with a majority co-located with retail banking branches. The businesses provide customized investments, wealth planning, trust and estate administration and private banking solutions to affluent individuals and ultra-affluent families.

Institutional Asset Management provides advisory, custody and retirement administration services to institutional clients such as corporations, unions, municipalities, non-profits, foundations and endowments. The business also offers PNC proprietary mutual funds and investment strategies. Institutional Asset Management is strengthening its partnership with Corporate & Institutional Banking to drive growth and is focused on building retirement capabilities and expanding product solutions for all customers.

Asset Management Group's discretionary client assets under management increased compared with 2016, primarily attributable to higher equity markets as of December 31, 2017.

<u>BlackRock</u>

(Unaudited)

Information related to our equity investment in BlackRock follows:

Table 12: BlackRock Table

Year ended December 31		
Dollars in millions	2017	2016
Business segment earnings (a)	\$ 1,764 \$	532
PNC's economic interest in BlackRock (b)	22%	22%

(a) Includes our share of BlackRock's reported GAAP earnings and income taxes on those earnings incurred by us.

(b) At December 31.

In billions	Dec	ember 31 2017	De	cember 31 2016
Carrying value of our investment in BlackRock (c)	\$	7.7	\$	7.0
Market value of our investment in BlackRock (d)	\$	17.9	\$	13.4

(c) We account for our investment in BlackRock under the equity method of accounting, exclusive of a related deferred tax liability of \$1.6 billion at December 31, 2017 and \$2.3 billion at December 31, 2016. Our voting interest in BlackRock common stock was approximately 21% at December 31, 2017.

(d) Does not include liquidity discount.

Earnings for our BlackRock segment increased compared with 2016 and included the impact of new federal tax legislation. This resulted in an income tax benefit of \$972 million from the revaluation of our deferred tax liabilities related to BlackRock. Our share of BlackRock's reported GAAP earnings also included a \$254 million flow through impact of the new tax legislation on the income recognized on our equity investment in BlackRock.

In addition to our investment in BlackRock reflected in Table 12, at December 31, 2017, we held approximately 0.25 million shares of BlackRock Series C Preferred Stock valued at \$101 million, which are available to fund our obligation in connection with certain BlackRock long-term incentive plan (LTIP) programs. Additional information regarding the valuation of the BlackRock Series C Preferred Stock is included in Note 6 Fair Value, and additional information regarding our BlackRock LTIP share obligations is included in Note 12 Stock Based Compensation Plans, both of which are in the Notes To Consolidated Financial Statements in Item 8 of this Report.

See Note 23 Subsequent Events in Item 8 of this Report for information on our January 31, 2018 transfer of 0.1 million shares of Series C Preferred Stock to BlackRock to satisfy a portion of our LTIP obligation.

2016 VERSUS 2015

Consolidated Income Statement Review

Summary Results

Net income for 2016 was \$4.0 billion, or \$7.30 per diluted common share, a decrease of 4% compared with \$4.1 billion, or \$7.39 per diluted common share, for 2015. The decrease was driven by higher provision for credit losses and a 3% decline in noninterest income, partially offset by 1% increase in net interest income.

Net Interest Income

Net interest income increased by \$113 million, or 1%, to \$8.4 billion in 2016 compared to 2015 due to increases in loan and securities balances and higher loan yields, partially offset by an increase in borrowing costs and lower securities yields. Net interest margin was 2.73% in 2016 and 2.74% in 2015.

Noninterest Income

Noninterest income decreased \$176 million, or 3%, to \$6.8 billion for 2016 compared to 2015. Noninterest income as a percentage of total revenue was 45% for 2016, down from 46% for 2015.

Asset management revenue decreased \$46 million, or 3%, to \$1.5 billion in 2016 compared to 2015 mainly due to lower earnings from BlackRock and the impact from a \$30 million trust settlement in 2015 in our asset management business segment. Discretionary client assets under management in the Asset Management Group were \$137 billion at December 31, 2016 compared with \$134 billion at December 31, 2015.

Consumer service fees increased \$53 million, or 4%, in 2016 compared to 2015, primarily from growth in payment-related products including debit card and credit card, as well as higher brokerage fees.

Corporate service fees increased \$13 million, or 1%, in 2016 compared to 2015, reflecting higher treasury management fees and a higher benefit from commercial mortgage servicing rights valuation, net of economic hedge, partially offset by lower merger and acquisition advisory fees.

Other noninterest income decreased \$213 million, or 16%, to \$1.1 billion in 2016 compared with \$1.3 billion in 2015. The decline was primarily attributable to the impact of lower net gains on sales of Visa Class B common shares and lower revenue from private equity investments. Net gains on sale of Visa shares for 2016 were \$32 million compared with \$166 million in 2015. Net gains on Visa sales include derivative fair value adjustments related to swap agreements with purchasers of Visa shares in connection with all prior sales to date.

Provision For Credit Losses

The provision for credit losses increased to \$433 million in 2016 compared with \$255 million in 2015, primarily attributable to a higher provision for energy related loans in the oil, gas, and coal sectors. Overall credit portfolio performance and loan growth also contributed to the higher provision.

Noninterest Expense

Noninterest expense increased slightly by \$13 million to \$9.5 billion in 2016 compared to 2015 as we continued to focus on disciplined expense management. Higher 2016 contributions to the PNC Foundation, a new FDIC deposit insurance surcharge and investments in technology and business infrastructure were offset by net lower contingency accruals.

During 2016, we completed actions and achieved our 2016 continuous improvement program savings goal of \$400 million, which largely funded our investments in technology and business infrastructure.

Effective Income Tax Rate

The effective income tax rate was 24.1% for 2016 compared with 24.8% for 2015. The effective tax rate is generally lower than the statutory rate primarily due to tax credits we receive from our investments in low income housing and new markets investments, as well as earnings in other tax exempt investments. The decline in the comparison reflected the tax favorability of the 2016 PNC Foundation contributions.

Consolidated Balance Sheet Review

Summary Results

Our balance sheet reflected asset growth and strong liquidity and capital positions at December 31, 2016. Total assets increased in 2016 compared to 2015 primarily due to increases in investment securities and loan balances. Total liabilities increased in 2016 compared to 2015 mainly due to deposit growth. Total equity increased in 2016 compared to 2015, reflecting increased retained earnings driven by net income, partially offset by share repurchases.

Loans

Loans increased \$4.1 billion to \$210.8 billion as of December 31, 2016 compared with December 31, 2015. Loan growth was driven by an increase in total commercial lending driven by higher commercial and commercial real estate loans, partially offset by a decline in consumer lending due to lower home equity and education loans.

Average total loans increased by \$3.5 billion to \$208.8 billion in 2016, which resulted from growth in average commercial real estate loans of \$3.6 billion and average commercial loans of \$2.2 billion, partially offset by a decrease in consumer loans of \$2.6 billion. The decline in consumer loans was primarily attributable to lower nonstrategic consumer and government guaranteed education loan portfolios.

Investment Securities

Investment securities increased \$5.4 billion to \$75.9 billion at December 31, 2016 compared to December 31, 2015. Growth in investment securities was driven by net purchases of U.S. Treasury and government agency securities and agency residential mortgage-backed securities, partially offset by prepayments of non-agency commercial mortgage-backed and non-agency residential mortgage-backed securities.

Average investment securities increased to \$72.0 billion during 2016 compared to \$61.7 billion during 2015, primarily due to increases in average agency residential mortgagebacked securities and U.S. Treasury and government agency securities, partially offset by a decrease in average non-agency residential mortgage-backed securities.

The weighted-average expected maturity of the investment securities portfolio (excluding other) was 5.0 years at December 31, 2016 and 4.8 years at December 31, 2015.

Funding Sources

Total deposits increased \$8.2 billion to \$257.2 billion at December 31, 2016 compared with December 31, 2015, due to strong growth in demand and savings deposits which reflected in part a shift from money market deposits to relationshipbased savings products.

Average total deposits increased \$10.5 billion to \$250.8 billion in 2016 compared to 2015, primarily due to an increase in average interest-bearing deposits, which reflected higher average savings deposits and higher average interest-bearing demand deposits.

Total borrowed funds decreased \$1.8 billion to \$52.7 billion at December 31, 2016 compared with December 31, 2015 as maturities of FHLB borrowings were partially offset by higher bank notes and senior debt.

Shareholders' Equity

Total shareholders' equity grew \$1.0 billion to \$45.7 billion at December 31, 2016 compared with December 31, 2015. The increase was primarily due to higher retained earnings and capital surplus, which included the issuance of Series S preferred stock, partially offset by common share repurchases of \$2.0 billion and a decrease in accumulated other comprehensive income primarily related to net unrealized securities losses. The growth in retained earnings resulted from 2016 net income of \$4.0 billion, reduced by \$1.3 billion of common and preferred dividends declared. Common shares outstanding were 485 million and 504 million at December 31, 2016 and 2015, respectively, reflecting repurchases of 22.8 million shares during 2016.

RISK MANAGEMENT

Enterprise Risk Management

We encounter risk as part of the normal course of operating our business. Accordingly, we design risk management processes to help manage this risk. We manage risk in light of our risk appetite to optimize long-term shareholder value while supporting our employees, customers and communities.

Our Enterprise Risk Management (ERM) Framework is structurally aligned with enhanced prudential standards that establish minimum requirements for the design and implementation of a risk governance framework. This Risk Management section describes our ERM Framework which consists of risk culture, enterprise strategy (including risk appetite, strategic planning, capital planning and stress testing), risk governance and oversight, risk identification, risk assessments, risk controls and monitoring, and risk aggregation and reporting. The overall Risk Management section of this Item 7 also provides an analysis of our key areas of risk, which include but are not limited to credit, liquidity and capital, market, operational and compliance. Our use of financial derivatives as part of our overall asset and liability risk management process is also addressed within this Risk Management section.

We operate within a rapidly evolving regulatory environment. Accordingly, we are actively focused on the timely adoption of regulatory pronouncements within our ERM Framework.

We view risk management as a cohesive combination of the following risk elements which form our ERM Framework:



Risk Culture

A strong risk culture helps us make well-informed decisions, ensures individuals conform to the established culture, reduces an individual's ability to do something for personal gain, and rewards employees working toward a common goal rather than individual interests. Our risk culture reinforces the appropriate protocols for responsible and ethical behavior. These protocols are especially critical in terms of our risk awareness, risk-taking behavior and risk management practices.

Managing risk is every one of our employee's responsibility. All of our employees individually and collectively assume responsibility for ensuring the organization is performing with the utmost integrity, is applying sound risk management practices and is striving to achieve our stated objectives rather than pursuing individual interests. All employees are responsible for understanding our Enterprise Risk Appetite Statement, the ERM Framework and how risk management applies to their respective roles and responsibilities. Employees are encouraged to collaborate across groups to identify and mitigate risks and elevate issues as required. We reinforce risk management responsibilities through a performance management system where employee performance goals include risk management objectives and incentives for employees to reinforce balanced measures of risk-adjusted performance.

Proactive communication, between groups and up to the Board of Directors, facilitates timely identification and resolution of risk issues. Our multi-level risk committee structure provides a formal channel to identify and report risk.

Enterprise Strategy

We ensure that our overall enterprise strategy is within acceptable risk parameters through our risk appetite, strategic planning, capital planning and stress testing processes. These components are reviewed and approved at least annually by the Board of Directors.

Risk Appetite: Our risk appetite represents the organization's desired enterprise risk position, set within our capital based risk and liquidity capacity to achieve our strategic objectives and business plans. The Enterprise Risk Appetite Statement qualitatively describes the aggregate level of risk we are willing to accept in order to execute our business strategies. Qualitative guiding principles further define each of the risks within our taxonomy to support the risk appetite statement. Risk appetite metrics and limits, including forward-looking metrics, quantitatively measure whether we are operating within our stated Risk Appetite. Our risk appetite metrics reflect material risks, align with our established Risk Appetite Framework, balance risk and reward, leverage analytics, and adjust in a timely manner to changes in the external and internal risk environments.

Strategic Planning: Our enterprise and line of business strategic plans outline major objectives, strategies and goals which are expected to be achieved over the next five years while seeking to ensure we remain compliant with

all capital, risk appetite and liquidity targets and guidelines. Our CEO and CFO lead the development of the strategic plan, the strategic objectives and the comprehensive identification of material risks that could hinder successful implementation and execution of strategies. Strategic planning is linked to our risk management and capital planning processes.

Capital Planning and Stress Testing: Capital planning helps to ensure we are maintaining safe and sound operations and viability. The capital planning process and the resulting capital plan evolve as our overall risks, activities and risk management practices change. Capital planning aligns with our strategic planning process.

Stress testing is an essential element of the capital planning process. Effective stress testing enables us to consider the estimated effect on capital of various hypothetical scenarios.

Risk Governance and Framework

We employ a comprehensive risk management governance framework to help ensure that risks are identified, balanced decisions are made that consider risk and return, and risks are adequately monitored and managed. Risk committees established within this risk governance and oversight framework provide oversight for risk management activities at the Board of Directors, executive, corporate and business levels. Committee composition is designed to provide effective oversight balanced across the three lines of defense in accordance with the OCC's heightened risk management and governance expectations and guidelines. See discussion of the enhanced prudential standards in the Supervision and Regulation section in Item 1 of this Report.

To ensure the appropriate risks are being taken and effectively managed and controlled, risk is managed across three lines of defense. The Board of Directors' and each line of defense's responsibilities are detailed below:

Board of Directors – The Board of Directors oversees our risk-taking activities and is responsible for exercising sound, independent judgment when assessing risk.

First line of defense – The front line units are accountable for identifying, owning and managing risks to within acceptable levels while adhering to the risk management framework established by the Independent Risk Management department. Our businesses strive to enhance risk management and internal control processes within their areas. Integrated and comprehensive processes are designed to adequately identify, measure, manage, monitor and report risks which may significantly impact each business.

Second line of defense – The second line of defense is independent from the first line of defense and is responsible for establishing the standards for identifying, measuring, monitoring and controlling aggregate risks. As the second line of defense, the independent risk areas monitor the risks generated by the first line of defense, review and challenge the implementation of effective risk management practices, and report any issues or exceptions. The risk areas help to ensure the first line of defense is properly designed and operating as intended, and they may intervene directly in modifying and developing first line of defense risk processes and controls.

Third line of defense – As the third line of defense, Internal Audit is independent from the first and second lines of defense. Internal Audit provides the Board of Directors and executive management comprehensive assurance on the effectiveness of risk management practices across the organization.

Within the three lines of defense, the independent risk organization has sufficient authority to influence material decisions. Our business oversight and decision-making is supported through a governance structure at the Board of Directors and management level. Specific responsibilities include:

Board of Directors – Our Board of Directors oversees our business and affairs as managed by our officers and employees. The Board of Directors may receive assistance in carrying out its duties and may delegate authority through the following standing committees:

- Audit Committee: monitors the integrity of our consolidated financial statements; monitors internal control over financial reporting; monitors compliance with our code of ethics; evaluates and monitors the qualifications and independence of our independent auditors; and evaluates and monitors the performance of our Internal Audit function and our independent auditors.
- *Nominating and Governance Committee*: oversees the implementation of sound corporate governance principles and practices while promoting our best interests and those of our shareholders
- *Personnel and Compensation Committee*: oversees the compensation of our executive officers and other specified responsibilities related to personnel compensation matters affecting us.
- *Risk Committee*: oversees enterprise-wide risk structure and the processes established to identify, measure, monitor and manage the organization's risks and evaluates and approves our risk governance framework. The Risk Committee has formed a Technology Subcommittee and a Compliance Subcommittee to facilitate Board-level oversight of risk management in these areas.

Corporate Committees – The corporate committees are responsible for overseeing risk standards and strategies, recommending risk limits, policies and metrics, monitoring risk exposures, reviewing risk profiles and key risk issues, and approving significant transactions and initiatives. We have established several senior management-level corporate committees to facilitate the review, evaluation and management of risk. The management-level Executive Committee is the corporate committee that is responsible for developing enterprisewide strategy and achieving our strategic objectives. The Executive Committee evaluates risk management, in part, by monitoring risk reporting from the other corporate committees which are the supporting committees for the Executive Committee.

Working Committees – The working committees are generally subcommittees of the corporate committees. Working committees are intended to assist in the implementation of key enterprise-level activities within a business or function; recommend and/or approve risk appetite metrics and limits; recommend and/or approve policies that are generally within the standards outlined in the applicable enterprise policy; and review and/or approve certain significant transactions or initiatives.

Policies and Procedures – We have established risk management policies and procedures to provide direction, guidance and clarity on roles and responsibilities to management and the Board of Directors. These policies and procedures are organized in a multi-tiered framework and require periodic review and approval by relevant committees within the governance structure.

We have established risk management policies, programs and procedures to support our ERM Framework, articulate our risk culture, define the parameters and processes within which employees are to manage risk and conduct our business activities and to provide direction, guidance and clarity on roles and responsibilities to management and the Board of Directors. These policies, programs and procedures are organized in a multi-tiered framework and require periodic review and approval by relevant committees within the governance structure.

Risk Identification

Risk identification takes place across a variety of risk types throughout the organization. These risk types consist of, but are not limited to, credit, liquidity and capital, market, operational and compliance. Risks are identified based on a balanced use of analytical tools and management judgment for both on- and off-balance sheet exposures. Our governance structure supports risk identification by facilitating assessment of key risk issues, emerging risks and idiosyncratic risks and implementation of mitigation strategies as appropriate. These risks are prioritized based on quantitative and qualitative analysis and assessed against the risk appetite. Multiple tools and approaches are used to help identify and prioritize risks, including Risk Appetite Metrics, Key Risk Indicators, Key Performance Indicators, Risk Control and Self-Assessments, scenario analysis, stress testing and special investigations.

Risks are aggregated and assessed within and across risk functions or businesses. The aggregated risk information is reviewed and reported at an enterprise level for adherence to the Risk Appetite Framework and approved by the Board of Directors or by appropriate committees. This enterprise aggregation and reporting approach promotes the identification and appropriate escalation of material risks across the organization and supports an understanding of the cumulative impact of risk in relation to our risk appetite.

Risk Assessment

Once risks are identified, they are evaluated based on quantitative and qualitative analysis to determine whether they are material. Risk assessments support the overall management of an effective ERM Framework and allow us to control and monitor our actual risk level through the use of risk measures. Comprehensive, accurate and timely assessments of risk are essential to an effective ERM Framework. Effective risk measurement practices will uncover reoccurring risks that have been experienced in the past; make the known risks easy to see, understand, compare and report; and reveal unanticipated risks that may not be easy to understand or predict.

Risk Controls and Monitoring

Our ERM Framework consists of policies, processes, personnel and control systems. Risk controls and limits provide the linkage from our Risk Appetite Statement and associated guiding principles to the risk taking activities of our businesses. In addition to risk appetite limits, a system of more detailed internal controls exists which oversees and monitors our various processes and functions. These control systems measure performance, help employees make correct decisions, ensure information is accurate and reliable, and document compliance with laws and regulations.

Our monitoring and evaluation of risks and controls provides assurance that policies, procedures and controls are effective and also results in the identification of control improvement recommendations. Risk monitoring is a daily, on-going process used by both the first and second line of defense to ensure compliance with our ERM Framework. Risk monitoring is accomplished in many ways, including performing risk assessments at the prime process and risk assessment unit level, monitoring an area's key controls, the timely reporting of issues, and establishing a quality assurance and/or quality control function, as applicable.

Risk Aggregation and Reporting

Risk reporting is a comprehensive way to: (i) aggregate risks; (ii) identify concentrations; (iii) help ensure we remain within our established risk appetite; (iv) serve as a basis for monitoring our risk profile in relation to our risk appetite and (v) communicate risks to the Board of Directors and executive management.

Risk reports are produced at the line of business, functional risk and enterprise levels. The enterprise level risk report aggregates risks identified in the functional and business reports to define the enterprise risk profile. The enterprise risk profile is a point-in-time assessment of enterprise risk and represents our overall risk position in relation to the desired enterprise risk appetite. The determination of the enterprise risk profile is based on analysis of quantitative reporting of risk limits and other measures along with qualitative assessments. Quarterly aggregation of our risk profile enables a clear view of our risk level relative to our quantitative risk appetite. The enterprise level report is provided through the governance structure to the Board of Directors.

Each individual risk report includes an assessment of inherent risk, quality of risk management, residual risk, risk appetite, and risk outlook. The enterprise level risk report includes an aggregate view of risks identified in the individual report and provides a summary of our overall risk profile compared to our risk appetite.

Credit Risk Management

Credit risk represents the possibility that a customer, counterparty or issuer may not perform in accordance with contractual terms. Credit risk is inherent in the financial services business and results from extending credit to customers, purchasing securities, and entering into financial derivative transactions and certain guarantee contracts. Credit risk is one of our most significant risks. Our processes for managing credit risk are embedded in our risk culture and in our decision-making processes using a systematic approach whereby credit risks and related exposures are identified and assessed, managed through specific policies and processes, measured and evaluated against our risk appetite and credit concentration limits, and reported, along with specific mitigation activities, to management and the Board of Directors through our governance structure. Our most significant concentration of credit risk is in our loan portfolio.

Loan Portfolio Characteristics and Analysis

Table 13: Details of Loans

Dollars in billions



We use several asset quality indicators, as further detailed in Note 3 Asset Quality, to monitor and measure our exposure to credit risk within our loan portfolio. The following provides additional information about our significant loan classes.

Commercial

Commercial loans comprised 50% and 48% of our total loan portfolio at December 31, 2017 and December 31, 2016, respectively. Most of our commercial loans are secured by collateral that provides a secondary source of repayment for the loan should the borrower experience cash generation difficulties. Examples of this collateral include short-term assets, such as accounts receivable, inventory and securities, and long-lived assets, such as equipment, real estate and other business assets.

We actively manage our commercial loans to assess any changes (both positive and negative) in the level of credit risk at both the borrower and portfolio level. To evaluate the level of credit risk, we assign an internal risk rating reflecting the borrower's probability of default (PD) and loss given default (LGD). This two-dimensional credit risk rating methodology provides granularity in the risk monitoring process and is updated on an ongoing basis through our credit risk management processes. In addition to continual monitoring of the level of credit risk, we also monitor concentrations of credit risk pertaining to both specific industries and geography that may exist in our portfolio. Our portfolio remains stable and well-diversified as evidenced by the following table which provides a breakout of our commercial loans by industry classification (classified based on the North American Industry Classification System (NAICS)).

Table 14: Commercial Loans by Industry

	December 31, 2017		December 3	1, 2016
Dollars in millions	Amount	% of Total	Amount	% of Total
Commercial				
Manufacturing	\$ 20,578	19%	\$ 18,891	19%
Retail/wholesale trade	17,846	16%	16,752	17%
Service providers	15,100	14%	14,707	15%
Real estate related (a)	12,496	11%	11,920	12%
Health care	9,739	9%	9,491	9%
Financial services	8,532	8%	7,241	7%
Transportation and warehousing	5,609	5%	5,170	5%
Other industries	20,627	18%	17,192	16%
Total commercial loans	\$110,527	100%	\$101,364	100%

(a) Includes loans to customers in the real estate and construction industries.

Commercial Real Estate

Commercial real estate loans comprised \$15.3 billion of real estate project loans and \$13.7 billion related to commercial mortgages as of December 31, 2017. Comparable amounts were \$16.3 billion and \$12.7 billion, respectively, as of December 31, 2016.

We monitor credit risk associated with our commercial real estate projects and commercial mortgages similar to commercial loans by analyzing PD and LGD. Additionally, risks associated with types of credit activities tend to be correlated to the loan structure, collateral location, project progress and business environment. These attributes are also monitored and utilized in assessing credit risk. The portfolio is geographically diverse due to the nature of our business involving clients throughout the U.S. The following table presents our commercial real estate loans by geographic market.

Table 15: Commer	cial Real Estate	Loans by	Geography
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	December 3	December 31, 2017		31, 2016
Dollars in millions	Amount	% of Total	Amount	% of Total
Geography				
California	\$ 4,192	14%	\$ 4,045	14%
Florida	2,221	8%	2,263	8%
Maryland	2,104	7%	2,189	7%
Texas	1,639	6%	1,531	5%
Virginia	1,609	5%	1,666	6%
Pennsylvania	1,394	5%	1,424	5%
Illinois	1,325	5%	1,135	4%
New York	1,163	4%	1,384	5%
Ohio	1,134	4%	1,128	4%
New Jersey	964	3%	1,079	4%
All other states	11,233	39%	11,166	38%
Total commercial real estate loans	\$ 28,978	100%	\$ 29,010	100%

Home Equity

Home equity loans comprised \$16.8 billion of primarily variable-rate home equity lines of credit and \$11.6 billion of closed-end home equity installment loans at December 31, 2017. Comparable amounts were \$17.7 billion and \$12.2 billion, respectively, as of December 31, 2016.

We track borrower performance monthly, including obtaining original loan-to-value ratios (LTV), updated FICO scores at least quarterly, updated LTVs at least semi-annually, and other credit metrics at least quarterly, including the historical performance of any related mortgage loans regardless of lien position that we do or do not hold. This information is used for internal reporting and risk management. For internal reporting and risk management we also segment the population into pools based on product type (*e.g.*, home equity loans, brokered home equity loans, home equity lines of credit, brokered home equity lines of credit). As part of our overall risk analysis and monitoring, we also segment the portfolio based upon the loan delinquency, nonperforming status, modification and bankruptcy status, FICO scores, LTV, lien position and geographic concentration.

The portfolio is primarily originated within our primary geographic markets, with only 5% of the portfolio in states outside of those markets as of December 31, 2017. The credit quality of newly originated loans in 2017 was strong overall as evidenced by a weighted- average LTV on originations of 67% and a weighted-average FICO score of 776.

The credit performance of the majority of the home equity portfolio where we hold the first lien position is superior to the portion of the portfolio where we hold the second lien position, but do not hold the first lien. Lien position information is generally based upon original LTV at the time of origination. We use an industry-leading third-party service provider to obtain updated loan, lien and collateral data that is aggregated from public and private sources.

The following table presents our home equity loans by geographic market and lien type.

Table 16: Home	Equity	Loans l	by Geogr	raphy an	d by Lien
Priority					

	December	31, 2017	December 31, 2016		
Dollars in millions	Amount	% of Total	Amount	% of Total	
Geography					
Pennsylvania	\$ 6,792	24%	\$ 7,259	24%	
New Jersey	4,252	15%	4,364	15%	
Ohio	3,413	12%	3,616	12%	
Illinois	1,801	6%	1,907	6%	
Maryland	1,572	6%	1,629	6%	
Michigan	1,442	5%	1,483	5%	
North Carolina	1,266	5%	1,338	5%	
Florida	1,255	4%	1,275	4%	
Kentucky	1,138	4%	1,206	4%	
Indiana	924	3%	1,000	3%	
All other states	4,509	16%	4,872	16%	
Total home equity loans	\$28,364	100%	\$ 29,949	100%	
Lien type					
1st lien		58%		55%	
2nd lien		42%		45%	
Total home equity loans		100%		100%	

Residential Real Estate

Residential real estate loans primarily consisted of residential mortgage loans at both December 31, 2017 and December 31, 2016.

We track borrower performance of this portfolio monthly similar to home equity loans. This information is used for internal reporting and risk management. For internal reporting and risk management we also segment the mortgage portfolio into pools based on product type (e.g., FHA, conforming, etc.). As part of our overall risk analysis and monitoring, we also segment the portfolio based upon loan delinquency, nonperforming status, modification and bankruptcy status, FICO scores, LTV and geographic concentrations. Loan performance is evaluated by source originators and loan servicers.

The credit quality of newly originated loans that we retained on our balance sheet in 2017 was strong overall as evidenced by a weighted-average LTV on originations of 71% and a weighted-average FICO score of 768.

We originate residential mortgage loans nationwide through our national mortgage business as well as within our branch network. Residential mortgage loans underwritten to government agency standards, including conforming loan amount limits, are typically sold with servicing retained by us. We also originate residential mortgage loans above the conforming loan amount limits, known as nonconforming mortgage loans, which we retain on our balance sheet. In recent years, including in 2017, we have increased the volume of nonconforming loans that we originate, including in California.

The following presents our residential real estate loans by geographic market.

	December 3	31, 2017	December 31, 2016				
Dollars in millions	Amount	% of Total	Amount	% of Total			
Geography							
California	\$ 3,676	21%	\$ 2,842	18%			
Florida	1,529	9%	1,511	10%			
New Jersey	1,503	9%	1,285	8%			
Illinois	1,230	7%	1,263	8%			
Pennsylvania	962	5%	843	5%			
Maryland	902	5%	857	6%			
New York	847	5%	722	5%			
Virginia	824	5%	772	5%			
North Carolina	821	5%	797	5%			
Ohio	684	4%	649	4%			
All other states	4,234	25%	4,057	26%			
Total residential real estate loans	\$ 17,212	100%	\$ 15,598	100%			

Table 17: Residential Real Estate Loans by Geography

Automobile

Within auto loans, \$11.4 billion resided in the indirect auto portfolio, \$1.4 billion in the direct auto portfolio and \$.1 billion in securitized portfolios as of December 31, 2017. Comparable amounts as of December 31, 2016 were \$10.8 billion, \$1.3 billion and \$.3 billion, respectively. The indirect auto portfolio relates to loan applications generated from franchised automobile dealers. This business is strategically aligned with our core retail business.

We continue to focus on a strong origination profile as evidenced by a weighted-average loan origination FICO score during 2017 of 745 for indirect auto loans and 767 for direct auto loans. The weighted-average term of loan originations during 2017 was 72 months for indirect auto loans and 62 months for direct auto loans. We offer both new and used automobile financing to customers through our various channels. The portfolio was composed of 54% new vehicle loans and 46% used vehicle loans at December 31, 2017.

The auto loan portfolio's performance is measured monthly, including updated collateral values that are obtained monthly and updated FICO scores that are obtained at least quarterly. For internal reporting and risk management, we analyze the portfolio by product channel and product type and regularly evaluate default and delinquency experience. As part of our overall risk analysis and monitoring, we segment the portfolio by loan structure, collateral attributes and credit metrics which include FICO score, LTV and term.

Nonperforming Assets and Loan Delinquencies

Nonperforming Assets

Nonperforming assets include nonperforming loans and leases for which ultimate collectability of the full amount of contractual principal and interest is not probable and include nonperforming troubled debt restructurings (TDRs), other real estate owned (OREO), foreclosed and other assets. Loans held for sale, certain government insured or guaranteed loans, purchased impaired loans and loans accounted for under the fair value option are excluded from nonperforming loans. Additional information regarding our nonperforming loans and nonaccrual policies is included in Note 1 Accounting Policies in the Notes To Consolidated Financial Statements in Item 8 of this report. A summary of the major categories of nonperforming assets are presented in Table 18. See Note 3 Asset Quality in the Notes To Consolidated Financial Statements in Item 8 of this Report for further detail of nonperforming asset categories.

Table 18: Nonperforming Assets by Type

	Da	cember 31	Da	Change		
Dollars in millions	De	2017	December 31 2016		\$	%
Nonperforming loans						
Commercial lending	\$	554	\$	655	(101)	(15)%
Consumer lending (a)		1,311		1,489	(178)	(12)%
Total nonperforming loans		1,865		2,144	(279)	(13)%
OREO, foreclosed and other assets		170		230	(60)	(26)%
Total nonperforming assets	\$	2,035	\$	2,374	\$(339)	(14)%
Amount of TDRs included in nonperforming loans	\$	964	\$	1,112	\$(148)	(13)%
Percentage of total nonperforming loans		52%		52%		
Nonperforming loans to total loans		.85%		1.02%		
Nonperforming assets to total loans, OREO, foreclosed and other assets		.92%		1.12%		
Nonperforming assets to total assets		.53%		.65%		
Allowance for loan and lease losses to total nonperforming loans		140%		121%		

(a) Excludes most consumer loans and lines of credit not secured by residential real estate, which are charged off after 120 to 180 days past due and are not placed on nonperforming status.

Table 19: Change in Nonperforming Assets

In millions	2017	2016
January 1	\$ 2,374	\$ 2,425
New nonperforming assets	1,376	1,835
Charge-offs and valuation adjustments	(585)	(604)
Principal activity, including paydowns and payoffs	(638)	(697)
Asset sales and transfers to loans held for sale	(178)	(336)
Returned to performing status	(314)	(249)
December 31	\$ 2,035	\$ 2,374

Table 20: Accruing Loans Past Due (a)

As of December 31, 2017, approximately 90% of total nonperforming loans were secured by collateral which lessened reserve requirements and is expected to reduce credit losses in the event of default. As of December 31, 2017, commercial lending nonperforming loans were carried at approximately 62% of their unpaid principal balance, due to charge-offs recorded to date, before consideration of the Allowance for loan and lease losses (ALLL).

Within consumer nonperforming loans, residential real estate TDRs comprise 75% of total residential real estate nonperforming loans at December 31, 2017, up from 70% at December 31, 2016. Home equity TDRs comprise 50% of home equity nonperforming loans at December 31, 2017 and 52% at December 31, 2016. TDRs generally remain in nonperforming status until a borrower has made at least six consecutive months of both principal and interest payments under the modified terms or ultimate resolution occurs. Loans where borrowers have been discharged from personal liability through Chapter 7 bankruptcy and have not formally reaffirmed their loan obligations to us and loans to borrowers not currently obligated to make both principal and interest payments under the restructured terms are not returned to accrual status.

At December 31, 2017, our largest nonperforming asset was \$44 million in the Wholesale Trade industry. The ten largest individual nonperforming assets represented 12% of total nonperforming assets as of December 31, 2017.

Loan Delinquencies

We regularly monitor the level of loan delinquencies and believe these levels may be a key indicator of loan portfolio asset quality. Measurement of delinquency status is based on the contractual terms of each loan. Loans that are 30 days or more past due in terms of payment are considered delinquent. Loan delinquencies exclude loans held for sale and purchased impaired loans, but include government insured or guaranteed loans and loans accounted for under the fair value option.

	Amount				 Percentage of Total Loans Outstanding			
		December 31		December 31	 Change		December 31	December 31
Dollars in millions		2017		2016	\$	%	2017	2016
Early stage loan delinquencies						· · · · ·		
Accruing loans past due 30 to 59 days	\$	545	\$	562	\$ (17)	(3)%	.25%	.27%
Accruing loans past due 60 to 89 days		238		232	6	3 %	.11%	.11%
Total		783		794	(11)	(1)%	.36%	.38%
Late stage loan delinquencies								
Accruing loans past due 90 days or more		737		782	(45)	(6)%	.33%	.37%
Total	\$	1,520	\$	1,576	\$ (56)	(4)%	.69%	.75%

(a) Past due loan amounts include government insured or guaranteed loans of \$.9 billion at both December 31, 2017 and December 31, 2016.
Accruing loans past due 90 days or more decreased at December 31, 2017 compared to December 31, 2016 driven by declines in government insured residential real estate, and government insured education loans within other consumer. Accruing loans past due 90 days or more are not included in nonperforming loans and continue to accrue interest because they are well secured by collateral and are in the process of collection, or are managed in homogenous portfolios with specified charge-off timeframes adhering to regulatory guidelines, or are certain government insured or guaranteed loans.

Loan Modifications and Troubled Debt Restructurings

Consumer Loan Modifications

We modify loans under government and PNC-developed programs based upon our commitment to help eligible homeowners and borrowers avoid foreclosure, where appropriate. Initially, a borrower is evaluated for a modification under a government program. If a borrower does not qualify under a government program, the borrower is then evaluated under a PNC program. Our programs utilize both temporary and permanent modifications and typically reduce the interest rate, extend the term and/or defer principal. Loans that are either temporarily or permanently modified under programs involving a change to loan terms are generally classified as TDRs. Further, loans that have certain types of payment plans and trial payment arrangements which do not include a contractual change to loan terms may be classified as TDRs.

A temporary modification, with a term up to 24 months, involves a change in original loan terms for a period of time and reverts to a calculated exit rate for the remaining term of the loan as of a specific date. A permanent modification, with a term greater than 24 months, is a modification in which the terms of the original loan are changed. Permanent modification programs generally result in principal forgiveness, interest rate reduction, term extension, capitalization of past due amounts, interest-only period or deferral of principal.

We also monitor the success rates and delinquency status of our loan modification programs to assess their effectiveness in serving our borrowers' and servicing customers' needs while mitigating credit losses. Table 21 provides the number of accounts and unpaid principal balance of modified consumer real estate related loans at the end of each year presented.

Table 21: Consumer Real Estate Related Loan Modifications

	December	31, 2017	December 31, 2016					
Dollars in millions	Number of Accounts Balance		Number of Accounts	Unpaid Principal Balance				
Temporary modifications	3,033	\$ 217	3,484	\$ 258				
Permanent modifications	23,270	2,581	23,904	2,693				
Total consumer real estate related loan modifications	26,303	\$ 2,798	27,388	\$ 2,951				

Commercial Loan Modifications

Modifications of terms for commercial loans are based on individual facts and circumstances. Commercial loan modifications may involve reduction of the interest rate, extension of the loan term and/or forgiveness of principal. Modified commercial loans are usually already nonperforming prior to modification. We evaluate these modifications for TDR classification based upon whether we granted a concession to a borrower experiencing financial difficulties.

Troubled Debt Restructurings

A TDR is a loan whose terms have been restructured in a manner that grants a concession to a borrower experiencing financial difficulties. TDRs result from our loss mitigation activities and include rate reductions, principal forgiveness, postponement/reduction of scheduled amortization and extensions, which are intended to minimize economic loss and to avoid foreclosure or repossession of collateral. Additionally, TDRs also result from court imposed concessions (*e.g.* a Chapter 7 bankruptcy where the debtor is discharged from personal liability to us and a court approved Chapter 13 bankruptcy repayment plan).

Table 22: Summary of Troubled Debt Restructurings (a)

	Dag	ember 31 December 31			_	Char	nge
In millions	Dec	2017	Det	2016		\$	%
Total commercial lending	\$	409	\$	428	\$	(19)	(4)%
Total consumer lending		1,652		1,793		(141)	(8)%
Total TDRs	\$	2,061	\$	2,221	\$	(160)	(7)%
Nonperforming	\$	964	\$	1,112	\$	(148)	(13)%
Accruing (b)		1,097		1,109		(12)	(1)%
Total TDRs	\$	2,061	\$	2,221	\$	(160)	(7)%

(a) Amounts in table represent recorded investment, which includes the unpaid principal balance plus accrued interest and net accounting adjustments, less any charge-offs. Recorded investment does not include any associated valuation allowance.

(b) Accruing loans include consumer credit card loans and loans that have demonstrated a period of at least six months of performance under the restructured terms and are excluded from nonperforming loans.

Excluded from TDRs are \$1.2 billion of consumer loans held for sale, loans accounted for under the fair value option and pooled purchased impaired loans, as well as certain government insured or guaranteed loans at both December 31, 2017 and December 31, 2016. Nonperforming TDRs represented approximately 52% of total nonperforming loans at both December 31, 2017 and December 31, 2016, while representing 47% and 50% of total TDRs at December 31, 2017 and December 31, 2016, respectively. The remaining portion of TDRs represents TDRs that have been returned to accrual accounting after performing under the restructured terms for at least six consecutive months.

Allowances for Loan and Lease Losses and Unfunded Loan Commitments and Letters of Credit

We maintain an ALLL to absorb losses from the loan and lease portfolio and determine this allowance based on quarterly assessments of the estimated probable credit losses incurred in the loan and lease portfolio. Our total ALLL of \$2.6 billion at December 31, 2017 consisted of \$1.6 billion and \$1.0 billion established for the commercial lending and consumer lending categories, respectively. We maintain the ALLL at a level that we believe to be appropriate to absorb estimated probable credit losses incurred in the loan and lease portfolio as of the balance sheet date. The reserve calculation and determination process is dependent on the use of key assumptions. Key reserve assumptions and estimation processes react to and are influenced by observed changes in loan and lease portfolio performance experience, the financial strength of the borrower, and economic conditions. Key reserve assumptions are periodically updated.

Reserves are established for non-impaired commercial loan classes based primarily on PD and LGD.

Our commercial pool reserve methodology is sensitive to changes in key risk parameters such as PD and LGD. The results of these parameters are then applied to the loan balance and unfunded loan commitments and letters of credit to determine the amount of the respective reserves. The majority of the commercial portfolio is secured by collateral, including loans to asset-based lending customers, which generally demonstrate lower LGD compared to loans not secured by collateral. Our PDs and LGDs are primarily determined using internal commercial loan loss data. This internal data is supplemented with third-party data and management judgment, as deemed necessary. We continue to evaluate and enhance our use of internal commercial loss data and will periodically update our PDs and LGDs as well as consider third-party data, regulatory guidance and management judgment.

Allowances for non-impaired consumer loan classes are primarily based upon transition matrices, including using a roll-rate model. The roll-rate model uses statistical relationships, calculated from historical data that estimate the movement of loan outstandings through the various stages of delinquency and ultimately charge-off.

We establish specific allowances for loans considered impaired using methods prescribed by GAAP. All impaired loans are subject to individual analysis, except leases and large groups of smaller-balance homogeneous loans which may include, but are not limited to, credit card, residential real estate secured and consumer installment loans. Specific allowances for individual loans (including commercial and consumer TDRs) are determined based on an analysis of the present value of expected future cash flows from the loans discounted at their effective interest rate, observable market price or the fair value of the underlying collateral. A portion of the ALLL is related to qualitative measurement factors. These factors may include, but are not limited to, the following:

- Industry concentrations and conditions,
- Recent credit quality trends,
- Recent loss experience in particular portfolios,
- Recent macro-economic factors,
- Model imprecision,
- Changes in lending policies and procedures,
- Timing of available information, including the performance of first lien positions, and
- Limitations of available historical data.

Our determination of the ALLL for non-impaired loans is sensitive to the risk grades assigned to commercial loans and loss rates for consumer loans. There are several other qualitative and quantitative factors considered in determining the ALLL. This sensitivity analysis does not necessarily reflect the nature and extent of future changes in the ALLL. It is intended to provide insight into the impact of adverse changes to risk grades and loss rates only and does not imply any expectation of future deterioration in the risk ratings or loss rates. Given the current processes used, we believe the risk grades and loss rates currently assigned are appropriate.

Purchased impaired loans are initially recorded at fair value and applicable accounting guidance prohibits the carry over or creation of valuation allowances at acquisition. Because the initial fair values of these loans already reflect a credit component, additional reserves are established when performance is expected to be worse than our expectations as of the acquisition date. At December 31, 2017, we had established reserves of \$.3 billion for purchased impaired loans. In addition, loans (purchased impaired and nonimpaired) acquired after January 1, 2009 were recorded at fair value. No allowance for loan losses was carried over and no allowance was created at the date of acquisition.

In determining the appropriateness of the ALLL, we make specific allocations to impaired loans and allocations to portfolios of commercial and consumer loans. We also allocate reserves to provide coverage for probable losses incurred in the portfolio at the balance sheet date based upon current market conditions, which may not be reflected in historical loss data. Commercial lending is the largest category of credits and is sensitive to changes in assumptions and judgments underlying the determination of the ALLL.

In addition to the ALLL, we maintain an allowance for unfunded loan commitments and letters of credit. We report this allowance as a liability on our Consolidated Balance Sheet. We maintain the allowance for unfunded loan commitments and letters of credit at a level we believe is appropriate to absorb estimated probable losses on these unfunded credit facilities. We determine this amount using estimates of the probability of the ultimate funding and losses related to those credit exposures. Other than the estimation of the probability of funding, this methodology is very similar to the one we use for determining our ALLL. See Note 1 Accounting Policies and Note 3 Asset Quality in the Notes To Consolidated Financial Statements in Item 8 of this Report for further information on certain key asset quality indicators that we use to evaluate our portfolios and establish the allowances.

Table 23: Allowance for Loan and Lease Losses

Dollars in millions	2017	2016
January 1	\$ 2,589	\$ 2,727
Total net charge-offs	(457)	(543)
Provision for credit losses	441	433
Net decrease / (increase) in allowance for unfunded loan commitments and letters of credit	4	(40)
Other	34	12
December 31	\$ 2,611	\$ 2,589
Net charge-offs to average loans (for the year ended)	.21%	.26%
Allowance for loan and lease losses to total loans	1.18%	1.23%
Commercial lending net charge-offs	\$ (105)	\$ (185)
Consumer lending net charge-offs	(352)	(358)
Total net charge-offs	\$ (457)	\$ (543)
Net charge-offs to average loans (for the year ended)		
Commercial lending	.07%	.14%
Consumer lending	.49%	.50%

At December 31, 2017, total ALLL to total nonperforming loans was 140%. The comparable amount for December 31, 2016 was 121%. These ratios are 102% and 89%, respectively, when excluding the \$.7 billion of ALLL at both December 31, 2017 and December 31, 2016 allocated to consumer loans and lines of credit not secured by residential real estate and purchased impaired loans. We have excluded these amounts from ALLL in these ratios as these asset classes are not included in nonperforming loans. See Table 18 within this Credit Risk Management section for additional information.

The ALLL balance increases or decreases across periods in relation to fluctuating risk factors, including asset quality trends, net charge-offs and changes in aggregate portfolio balances. During 2017, overall credit quality remained stable, which resulted in an essentially flat ALLL balance as of December 31, 2017 compared to December 31, 2016.

The following table summarizes our loan charge-offs and recoveries.

Table 24: Loan Charge-Offs and Recoveries

Year ended December 31 Dollars in millions	C	Gross Tharge- offs	Rec	overies	(Re	Net Charge- offs / coveries)	Percent of Average Loans
2017							
Commercial	\$	186	\$	81	\$	105	.10 %
Commercial real estate		24		28		(4)	(.01)%
Equipment lease financing		11		7		4	.05 %
Home equity		123		91		32	.11 %
Residential real estate		9		18		(9)	(.06)%
Credit card		182		21		161	3.06 %
Other consumer		251		83		168	.77 %
Total	\$	786	\$	329	\$	457	.21 %
2016							
Commercial	\$	332	\$	117	\$	215	.21 %
Commercial real estate		26		51		(25)	(.09)%
Equipment lease financing		5		10		(5)	(.07)%
Home equity		143		84		59	.19 %
Residential real estate		14		9		5	.03 %
Credit card		161		19		142	2.90 %
Other consumer		205		53		152	.70 %
Total	\$	886	\$	343	\$	543	.26 %

See Note 1 Accounting Policies and Note 4 Allowance for Loan and Lease Losses in the Notes To Consolidated Financial Statements in Item 8 of this Report for additional information on the ALLL.

Liquidity and Capital Management

Liquidity risk has two fundamental components. The first is potential loss assuming we were unable to meet our funding requirements at a reasonable cost. The second is the potential inability to operate our businesses because adequate contingent liquidity is not available. We manage liquidity risk at the consolidated company level (bank, parent company, and nonbank subsidiaries combined) to help ensure that we can obtain cost-effective funding to meet current and future obligations under both normal "business as usual" and stressful circumstances, and to help ensure that we maintain an appropriate level of contingent liquidity.

Management monitors liquidity through a series of early warning indicators that may indicate a potential market, or PNC-specific, liquidity stress event. In addition, management performs a set of liquidity stress tests over multiple time horizons with varying levels of severity and maintains a contingency funding plan to address a potential liquidity stress event. In the most severe liquidity stress simulation, we assume that our liquidity position is under pressure, while the market in general is under systemic pressure. The simulation considers, among other things, the impact of restricted access to both secured and unsecured external sources of funding, accelerated run-off of customer deposits, valuation pressure on assets and heavy demand to fund committed obligations. Parent company liquidity guidelines are designed to help ensure that sufficient liquidity is available to meet our parent company obligations over the succeeding 24-month period. Liquidity-related risk limits are established within our Enterprise Liquidity Management Policy and supporting policies. Management committees, including the Asset and Liability Committee, and the Board of Directors and its Risk Committee regularly review compliance with key established limits.

In addition to these liquidity monitoring measures and tools described above, we also monitor our liquidity by reference to the Liquidity Coverage Ratio (LCR) which is further described in the Supervision and Regulation section in Item 1 of this Report. PNC and PNC Bank calculate the LCR on a daily basis and as of December 31, 2017, the LCR for PNC and PNC Bank exceeded the fully phased-in requirement of 100%.

We provide additional information regarding regulatory liquidity requirements and their potential impact on us in the Supervision and Regulation section of Item 1 Business and Item 1A Risk Factors of this Report.

Sources of Liquidity

Our largest source of liquidity on a consolidated basis is the customer deposit base generated by our banking businesses. These deposits provide relatively stable and low-cost funding. Total deposits increased to \$265.1 billion at December 31, 2017 from \$257.2 billion at December 31, 2016, driven by higher consumer and commercial deposits. Consumer deposits reflected in part a shift from money market deposits to relationship-based savings products. Commercial deposits reflected a shift from demand deposits to money market deposits primarily due to higher interest rates in 2017. Additionally, certain assets determined by us to be liquid and unused borrowing capacity from a number of sources are also available to manage our liquidity position.

At December 31, 2017, our liquid assets consisted of shortterm investments (Federal funds sold, resale agreements, trading securities and interest-earning deposits with banks) totaling \$33.0 billion and securities available for sale totaling \$57.6 billion. The level of liquid assets fluctuates over time based on many factors, including market conditions, loan and deposit growth and balance sheet management activities. Of our total liquid assets of \$90.6 billion, we had \$3.2 billion of securities available for sale and trading securities pledged as collateral to secure public and trust deposits, repurchase agreements and for other purposes. In addition, \$4.9 billion of securities held to maturity were also pledged as collateral for these purposes.

We also obtain liquidity through various forms of funding, including long-term debt (senior notes, subordinated debt and FHLB advances) and short-term borrowings (securities sold under repurchase agreements, commercial paper and other short-term borrowings). See Note 10 Borrowed Funds and the Funding Sources section of the Consolidated Balance Sheet Review in this Report for additional information related to our Borrowings.

Total senior and subordinated debt, on a consolidated basis, increased due to the following activity:

Table 25: Senior and Subordinated Debt

In billions	 2017
January 1	\$ 31.0
Issuances	7.1
Calls and maturities	(4.6)
Other	(.2)
December 31	\$ 33.3

Bank Liquidity

Under PNC Bank's 2014 bank note program, as amended, PNC Bank may from time to time offer up to \$40.0 billion aggregate principal amount outstanding at any one time of its unsecured senior and subordinated notes with maturity dates more than nine months (in the case of senior notes) and five years or more (in the case of subordinated notes) from their date of issue. At December 31, 2017, PNC Bank had \$26.7 billion of notes outstanding under this program of which \$23.1 billion were senior bank notes and \$3.6 billion were subordinated bank notes. The following table details issuances for the three months ended December 31, 2017:

Issuance Date	Amount	Description of Issuance
October 23, 2017	\$1 billion	Senior notes with a maturity date of October 25, 2027. Interest is payable semi-annually at a fixed rate of 3.100% on April 25 and October 25 of each year, beginning April 25, 2018.
October 23, 2017	\$750 million	Senior notes with a maturity date of November 5, 2020. Interest is payable semi-annually at a fixed rate of 2.450% on May 5 and November 5 of each year, beginning November 5, 2017. Following the re-opening, the aggregate outstanding principal amount of this series of notes initially issued on November 3, 2015 increased to \$1.5 billion.

See Note 23 Subsequent Events for information on the January 2018 issuances of \$900 million and \$700 million of senior fixed rate notes and \$400 million of senior floating rate notes by PNC Bank.

PNC Bank maintains additional secured borrowing capacity with the FHLB-Pittsburgh and through the Federal Reserve Bank discount window. The Federal Reserve Bank, however, is not viewed as a primary means of funding our routine business activities, but rather as a potential source of liquidity in a stressed environment or during a market disruption. At December 31, 2017, our unused secured borrowing capacity at the FHLB-Pittsburgh and the Federal Reserve Bank totaled \$41.0 billion.

PNC Bank has the ability to offer up to \$10.0 billion of its commercial paper to provide additional liquidity. As of December 31, 2017, there were no issuances outstanding under this program.

Parent Company Liquidity

In addition to managing liquidity risk at the bank level, we monitor the parent company's liquidity. The parent company's contractual obligations consist primarily of debt service related to parent company borrowings and funding non-bank affiliates. Additionally, the parent company maintains adequate liquidity to fund discretionary activities such as paying dividends to our shareholders, share repurchases, and acquisitions.

As of December 31, 2017, available parent company liquidity totaled \$5.7 billion. Parent company liquidity is primarily held in intercompany short-term investments, the terms of which provide for the availability of cash in 31 days or less. Investments with longer durations may also be acquired, but if so, the related maturities are aligned with scheduled cash needs, such as the maturity of parent company debt obligations. The principal source of parent company liquidity is the dividends it receives from PNC Bank, which may be impacted by the following:

- Bank-level capital needs,
- Laws and regulations,
- Corporate policies,
- Contractual restrictions, and
- Other factors.

There are statutory and regulatory limitations on the ability of a national bank to pay dividends or make other capital distributions or to extend credit to the parent company or its non-bank subsidiaries. See Note 18 Regulatory Matters in the Notes To Consolidated Financial Statements in Item 8 of this Report for a further discussion of these limitations.

In addition to dividends from PNC Bank, other sources of parent company liquidity include cash and investments, as well as dividends and loan repayments from other subsidiaries and dividends or distributions from equity investments. We can also generate liquidity for the parent company and PNC's non-bank subsidiaries through the issuance of debt and equity securities, including certain capital instruments, in public or private markets and commercial paper. The parent company has the ability to offer up to \$5.0 billion of commercial paper to provide additional liquidity. As of December 31, 2017, there was \$.1 billion of commercial paper issuances outstanding.

The parent company has an effective shelf registration statement pursuant to which we can issue additional debt, equity and other capital instruments.

Parent company senior and subordinated debt outstanding totaled \$6.8 billion at December 31, 2017 compared with \$6.2 billion at December 31, 2016.

Commitments

The following tables set forth contractual obligations and various other commitments as of December 31, 2017.

Table 27: Contractual Obligations

		Payment Due By Period							
December 31, 2017 – in millions	Total		Less than one year		One to three years		Four to five years		After five years
Remaining contractual maturities of time deposits	\$ 17,261	\$	12,138	\$	1,976	\$	1,868	\$	1,279
Borrowed funds (a)	59,088		15,961		26,086		8,634		8,407
Minimum annual rentals on noncancellable leases	2,555		382		645		477		1,051
Nonqualified pension and postretirement benefits	474		54		102		97		221
Purchase obligations (b)	1,025		405		362		135		123
Total contractual cash obligations	\$ 80,403	\$	28,940	\$	29,171	\$	11,211	\$	11,081

(a) Includes basis adjustment relating to accounting hedges and purchase accounting adjustments.

(b) Includes purchase obligations for goods and services covered by noncancellable contracts and contracts including cancellation fees.

Our contractual obligations totaled \$74.3 billion at December 31, 2016. The increase in the comparison is primarily attributable to the increase in borrowed funds. See Funding Sources in the Consolidated Balance Sheet Review section of this Item 7 for additional information regarding our funding sources.

Table 28: Other Commitments (a)

	 -	Amount Of Commitment Expiration By Period							
December 31, 2017 – in millions	Total Amounts Committed		Less than one year		One to three years		Four to five years		After five years
Commitments to extend credit (b)	\$ 159,641	\$	59,713	\$	57,573	\$	41,532	\$	823
Net outstanding standby letters of credit (c)	8,651		4,787		2,946		886		32
Reinsurance agreements (d)	1,654		7		16		11		1,620
Standby bond purchase agreements	843		301		542				
Other commitments (e)	1,732		1,333		305		60		34
Total commitments	\$ 172,521	\$	66,141	\$	61,382	\$	42,489	\$	2,509

(a) Other commitments are funding commitments that could potentially require performance in the event of demands by third parties or contingent events. Loan commitments are reported net of syndications, assignments and participations.

(b) Commitments to extend credit, or net unfunded loan commitments, represent arrangements to lend funds or provide liquidity subject to specified contractual conditions.

(c) Includes \$3.5 billion of standby letters of credit that support remarketing programs for customers' variable rate demand notes.

(d) Reinsurance agreements are with third-party insurers related to insurance sold to or placed on behalf of our customers. Balances represent estimates based on availability of financial information.

(e) Includes other commitments of \$.9 billion that were not on our Consolidated Balance Sheet. The remaining \$.8 billion of other commitments were included in Other liabilities on our Consolidated Balance Sheet.

Our total commitments were \$163.9 billion at December 31, 2016. The increase in the comparison is primarily attributable to an increase in commitments to extend credit and other commitments, partially offset by declines in reinsurance agreements.

Credit Ratings

PNC's credit ratings affect the cost and availability of short and long-term funding, collateral requirements for certain derivative instruments and the ability to offer certain products.

In general, rating agencies base their ratings on many quantitative and qualitative factors, including capital adequacy, liquidity, asset quality, business mix, level and quality of earnings, and the current legislative and regulatory environment, including implied government support. In addition, rating agencies themselves have been subject to scrutiny arising from the most recent financial crisis and could make or be required to make substantial changes to their ratings policies and practices, particularly in response to legislative and regulatory changes. Potential changes in the legislative and regulatory environment and the timing of those changes could impact our ratings, which as noted above, could impact our liquidity and financial condition. A decrease, or potential decrease, in credit ratings could impact access to the capital markets and/or increase the cost of debt, and thereby adversely affect liquidity and financial condition.

Table 29: Credit Ratings as of December 31, 2017 for PNC and PNC Bank

	Moody's	Standard & Poor's	Fitch
PNC			
Senior debt	A3	A-	A+
Subordinated debt	A3	BBB+	А
Preferred stock	Baa2	BBB-	BBB-
PNC Bank			
Senior debt	A2	А	A+
Subordinated debt	A3	A-	А
Long-term deposits	Aa2	А	AA-
Short-term deposits	P-1	A-1	F1+
Short-term notes	P-1	A-1	F1

Capital Management

We manage our funding and capital positions by making adjustments to our balance sheet size and composition, issuing or redeeming debt, issuing equity or other capital instruments, executing treasury stock transactions and capital redemptions or repurchases, and managing dividend policies and retaining earnings.

For the full year 2017, we returned \$3.6 billion of capital to shareholders. Repurchases totaled 18.6 million common shares for \$2.3 billion and dividends on common shares were \$1.3 billion.

We repurchase shares of PNC common stock under share repurchase authorization provided by our Board of Directors in the amount of up to 100 million shares and consistent with capital plans submitted to, and accepted by, the Federal Reserve. Repurchases are made on the open market or in privately negotiated transactions and the extent and timing of share repurchases under authorizations depend on a number of factors including, among others, market and general economic conditions, economic and regulatory capital considerations, alternative uses of capital, the potential impact on our credit ratings, contractual and regulatory limitations, and the results of supervisory assessments of capital adequacy and capital planning processes undertaken by the Federal Reserve as part of the CCAR and DFAST processes.

In relation to the 2016 capital plan accepted by the Federal Reserve, we announced new share repurchase programs of up to \$2.0 billion for the four quarter period ended June 30, 2017, including repurchases of up to \$.2 billion related to employee benefit plans. In January 2017, we announced a \$.3 billion increase in our share repurchase programs for the four quarter period. For the four quarter period ended June 30, 2017, we repurchased 21.5 million shares of PNC common stock for \$2.3 billion. Of the total repurchased, 10.7 million shares for \$1.3 billion occurred in the first two quarters of 2017.

In connection with the 2017 CCAR process, the Federal Reserve accepted our capital plan, as approved by our Board of Directors, and did not object to our proposed capital actions in June 2017. As provided for in the 2017 capital plan, we announced new share repurchase programs of up to \$2.7 billion for the four quarter period beginning in the third quarter of 2017, including repurchases of up to \$.3 billion related to employee benefit plans. We repurchased 7.9 million common shares for \$1.1 billion during the third and fourth quarters of 2017 under these share repurchase programs.

The quarterly cash dividend on common stock was increased to 75 cents from 55 cents effective with the August 5, 2017 dividend payment date.

See the Supervision and Regulation section of Item 1 Business in this Report for further information concerning the CCAR process and the factors the Federal Reserve takes into consideration in its evaluation of capital plans.

Table 30: Basel III Capital

	December 31, 2017					
Dollars in millions	2017	Transitional Basel III (a)	Pro forma Fully Phased- In Basel III (Non-GAAP) (estimated) (b)(c)			
Common equity Tier 1 capital						
Common stock plus related surplus, net of treasury stock	\$	8,195	\$	8,195		
Retained earnings		35,481		35,481		
Accumulated other comprehensive income for securities currently and those transferred from available for sale		270		337		
Accumulated other comprehensive income for pension and other postretirement plans		(436)		(544)		
Goodwill, net of associated deferred tax liabilities		(8,988)		(8,988)		
Other disallowed intangibles, net of deferred tax liabilities		(255)		(319)		
Other adjustments/(deductions)		(138)		(141)		
Total common equity Tier 1 capital before threshold deductions		34,129		34,021		
Total threshold deductions (d)		(1,983)		(2,928)		
Common equity Tier 1 capital		32,146		31,093		
Additional Tier 1 capital						
Preferred stock plus related surplus		3,985		3,985		
Other adjustments/(deductions)		(124)		(146)		
Tier 1 capital		36,007		34,932		
Additional Tier 2 capital						
Qualifying subordinated debt		3,482		3,433		
Trust preferred capital securities		100				
Eligible credit reserves includable in Tier 2 capital		2,907		2,907		
Total Basel III capital	\$	42,496	\$	41,272		
Risk-weighted assets						
Basel III standardized approach risk-weighted assets (e)	\$	309,460	\$	316,120		
Basel III advanced approaches risk-weighted assets (f)		N/A	\$	285,226		
Average quarterly adjusted total assets	\$	364,999	\$	363,967		
Supplementary leverage exposure (g)	\$	435,731	\$	434,698		
Basel III risk-based capital and leverage ratios						
Common equity Tier 1		10.4%		9.8% (h)(i)		
Tier 1		11.6%		11.1% (h)(j)		
Total		13.7%		13.1% (h)(k)		
Leverage (l)		9.9%		9.6%		
Supplementary leverage ratio (m)		8.3%		8.0%		

(a) Calculated using the regulatory capital methodology applicable to us during 2017.

(b) PNC utilizes the pro forma fully phased-in Basel III capital ratios to assess its capital position (without the benefit of phase-ins), as these ratios represent the regulatory capital standards that may ultimately be applicable to PNC under the final Basel III rules. Pro forma fully phased-in capital amounts, ratios and risk-weighted and leverage-related assets are estimates.

(c) Basel III capital ratios and estimates may be impacted by additional regulatory guidance or analysis and, in the case of those ratios calculated using the advanced approaches, may be subject to variability based on the ongoing evolution, validation and regulatory approval of PNC's models integral to the calculation of advanced approaches riskweighted assets.

(d) Under the Basel III rules, certain items such as significant common stock investments in unconsolidated financial institutions (primarily BlackRock), mortgage servicing rights and deferred tax assets must be deducted from capital (subject to a phase-in schedule and net of associated deferred tax liabilities) to the extent they individually exceed 10%, or in the aggregate exceed 15%, of PNC's adjusted common equity Tier 1 capital.

(e) Includes credit and market risk-weighted assets.

(f) Basel III advanced approaches risk-weighted assets are estimated based on the Basel III advanced approaches rules, and include credit, market, and operational risk-weighted assets. During the parallel run qualification phase, PNC has refined the data, models, and internal processes used as part of the advanced approaches for determining risk-weighted assets. We anticipate additional refinements to this estimate through the parallel run qualification phase.

(g) Supplementary leverage exposure is the sum of Adjusted average assets and certain off-balance sheet exposures including undrawn credit commitments and derivative potential future exposures.

(h) Pro forma fully phased-in Basel III capital ratio based on Basel III standardized approach risk-weighted assets and rules.

(i) For comparative purposes only, the pro forma fully phased-in advanced approaches Basel III Common equity Tier 1 capital ratio estimate is 10.9%. This capital ratio is calculated using pro forma fully phased-in Common equity Tier 1 capital and dividing by estimated Basel III advanced approaches risk-weighted assets.

(j) For comparative purposes only, the pro forma fully phased-in advanced approaches Basel III Tier 1 risk-based capital ratio estimate is 12.2%. This capital ratio is calculated using fully phased-in Tier 1 capital and dividing by estimated Basel III advanced approaches risk-weighted assets.

(k) For comparative purposes only, the pro forma fully phased-in advanced approaches Basel III Total capital risk-based capital ratio estimate is 13.5%. This ratio is calculated using fully phased-in Total Basel III capital, which under the advanced approaches, Additional Tier 2 capital includes allowance for loan and lease losses in excess of Basel expected credit losses, if any, up to 0.6% of credit risk-weighted assets, and dividing by estimated Basel III advanced approaches risk-weighted assets.

(l) Leverage ratio is calculated based on Tier 1 capital divided by Average quarterly adjusted total assets.

(m) Supplementary leverage ratio is calculated based on Tier 1 capital divided by Supplementary leverage exposure. As advanced approaches banking organizations, PNC and PNC Bank are subject to a 3% minimum supplementary leverage ratio effective January 1, 2018. For detailed information on regulatory capital requirements, see the Banking Regulation and Supervision portion of the Supervision and Regulation section of Item 1 Business.

We refer to the capital ratios calculated using the phased-in Basel III provisions in effect for 2017 and, for the risk-based ratios, standardized approach risk-weighted assets, as the 2017 Transitional Basel III ratios.

Federal banking regulators have stated that they expect the largest U.S. bank holding companies, including PNC, to have a level of regulatory capital well in excess of the regulatory minimum and have required the largest U.S. bank holding companies, including PNC, to have a capital buffer sufficient to withstand losses and allow them to meet the credit needs of their customers through estimated stress scenarios. We seek to manage our capital consistent with these regulatory principles, and believe that our December 31, 2017 capital levels were aligned with them.

At December 31, 2017, PNC and PNC Bank, our sole bank subsidiary, were both considered "well capitalized," based on applicable U.S. regulatory capital ratio requirements. To qualify as "well capitalized", PNC must have Transitional Basel III capital ratios of at least 6% for Tier 1 risk-based capital and 10% for Total risk-based capital, and PNC Bank must have Transitional Basel III capital ratios of at least 6.5% for Common equity Tier 1 risk-based capital, 8% for Tier 1 risk-based capital, 10% for Total risk-based capital and a Leverage ratio of at least 5%.

We provide additional information regarding regulatory capital requirements and some of their potential impacts on us in Item 1A Risk Factors and Note 18 Regulatory Matters in the Notes To Consolidated Financial Statements in Item 8 of this Report. See the Statistical Information (Unaudited) section of this Report for details on our December 31, 2016 Transitional Basel III and Pro forma fully phased-in Basel III common equity tier 1 capital ratios.

Market Risk Management

Market risk is the risk of a loss in earnings or economic value due to adverse movements in market factors such as interest rates, credit spreads, foreign exchange rates, commodity prices and equity prices. We are exposed to market risk primarily by our involvement in the following activities, among others:

- Traditional banking activities of gathering deposits and extending loans,
- Equity and other investments and activities whose economic values are directly impacted by market factors, and
- Fixed income securities, derivatives and foreign exchange activities, as a result of customer activities and securities underwriting.

We have established enterprise-wide policies and methodologies to identify, measure, monitor and report market risk. Market Risk Management provides independent oversight by monitoring compliance with established guidelines and reporting significant risks in the business to the Risk Committee of the Board of Directors.

Market Risk Management - Interest Rate Risk

Interest rate risk results primarily from our traditional banking activities of gathering deposits and extending loans. Many factors, including economic and financial conditions, movements in interest rates and consumer preferences, affect the difference between the interest that we earn on assets and the interest that we pay on liabilities and the level of our noninterest-bearing funding sources. Due to the repricing term mismatches and embedded options inherent in certain of these products, changes in market interest rates not only affect expected near-term earnings, but also the economic values of these assets and liabilities.

Our Asset and Liability Management group centrally manages interest rate risk as prescribed in our risk management policies, which are approved by management's Asset and Liability Committee and the Risk Committee of the Board of Directors.

Sensitivity results and market interest rate benchmarks for the fourth quarters of 2017 and 2016 follow:

Table 31: Interest Sensitivity Analysis

	Fourth Quarter 2017	Fourth Quarter 2016
Net Interest Income Sensitivity Simulation (a)		
Effect on net interest income in first year from gradual interest rate change over the following 12 months of:		
100 basis point increase	2.7 %	2.6 %
100 basis point decrease	(3.2)%	(4.2)%
Effect on net interest income in second year from gradual interest rate change over the preceding 12 months of:		
100 basis point increase	5.0 %	4.7 %
100 basis point decrease	(8.1)%	(8.3)%
Duration of Equity Model (a)		
Base case duration of equity (in years)	(1.7)	(2.5)
Key Period-End Interest Rates		
One-month LIBOR	1.56 %	.77 %
Three-year swap	2.17 %	1.69 %

(a) Given the inherent limitations in certain of these measurement tools and techniques, results become less meaningful as interest rates approach zero.

In addition to measuring the effect on net interest income assuming parallel changes in current interest rates, we routinely simulate the effects of a number of nonparallel interest rate environments. Table 32 reflects the percentage change in net interest income over the next two 12-month periods assuming (i) the PNC Economist's most likely rate forecast, (ii) implied market forward rates and (iii) yield curve slope flattening (a 100 basis point yield curve slope flattening between one-month and ten-year rates superimposed on current base rates) scenario.

Table 32: Net Interest Income Sensitivity to Alternative RateScenarios (Fourth Quarter 2017)

	PNC Economist	Market Forward	Slope Flattening
First year sensitivity	.7%	.5%	(.8)%
Second year sensitivity	1.8%	.4%	(3.8)%

All changes in forecasted net interest income are relative to results in a base rate scenario where current market rates are assumed to remain unchanged over the forecast horizon.

When forecasting net interest income, we make assumptions about interest rates and the shape of the yield curve, the volume and characteristics of new business and the behavior of existing on- and off-balance sheet positions. These assumptions determine the future level of simulated net interest income in the base interest rate scenario and the other interest rate scenarios presented in Tables 31 and 32. These simulations assume that as assets and liabilities mature, they are replaced or repriced at then current market rates.

The following graph presents the LIBOR/Swap yield curves for the base rate scenario and each of the alternate scenarios one year forward.

Table 33: Alternate Interest Rate Scenarios: One YearForward



The fourth quarter 2017 interest sensitivity analyses indicate that our Consolidated Balance Sheet is positioned to benefit from an increase in interest rates and an upward sloping interest rate yield curve. We believe that we have the deposit funding base and balance sheet flexibility to adjust, where appropriate and permissible, to changing interest rates and market conditions.

Market Risk Management – Customer-Related Trading Risk

We engage in fixed income securities, derivatives and foreign exchange transactions to support our customers' investing and hedging activities. These transactions, related hedges and the credit valuation adjustment related to our customer derivatives portfolio are marked-to-market daily and reported as customer-related trading activities. We do not engage in proprietary trading of these products. We use value-at-risk (VaR) as the primary means to measure and monitor market risk in customer-related trading activities. VaR is used to estimate the probability of portfolio losses based on the statistical analysis of historical market risk factors. A diversified VaR reflects empirical correlations across different asset classes. We calculate a diversified VaR at a 95% confidence interval and the results for 2017 and 2016 were within our acceptable limits.

To help ensure the integrity of the models used to calculate VaR for each portfolio and enterprise-wide, we use a process known as backtesting. The backtesting process consists of comparing actual observations of gains or losses against the VaR levels that were calculated at the close of the prior day. Our VaR measure assumes that exposures remain constant and that recent market variability is a good predictor of future variability. Actual observations include customer related revenue and intraday hedging which helps to reduce losses and can reduce the number of instances actual losses exceed the prior day VaR measure. There were one and two instances during 2017 and 2016, respectively, under our diversified VaR measure where actual losses exceeded the prior day VaR measure and those losses were insignificant. Our portfolio and enterprise-wide VaR models utilize a historical approach with a 500 day look back period.

Customer-related trading revenue was \$255 million for full year 2017 compared with \$203 million for full year 2016 and is recorded in Other noninterest income and Other interest income on our Consolidated Income Statement. The increase was mainly due to higher revenue from credit valuations on customer-related derivative activities and higher foreign exchange client sales revenues.

Market Risk Management – Equity And Other Investment Risk

Equity investment risk is the risk of potential losses associated with investing in both private and public equity markets. In addition to extending credit, taking deposits, underwriting securities and trading financial instruments, we make and manage direct investments in a variety of transactions, including management buyouts, recapitalizations and growth financings in a variety of industries. We also have investments in affiliated and non-affiliated funds that make similar investments in private equity. The economic and/or book value of these investments and other assets are directly affected by changes in market factors.

Various PNC business units manage our equity and other investment activities. Our businesses are responsible for making investment decisions within the approved policy limits and associated guidelines. A summary of our equity investments follows:

Table 34: Equity	Investments	Summary
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	De	cember 31	De	cember 31		Chan	ge						
In millions		2017		2016	\$		\$		\$		\$		%
BlackRock	\$	7,576	\$	6,886	\$	690	10 %						
Tax credit investments		2,148		2,090		58	3 %						
Private equity and other		1,668		1,752		(84)	(5)%						
Total	\$	11,392	\$	10,728	\$	664	6 %						

BlackRock

We owned approximately 35 million common stock equivalent shares of BlackRock equity at December 31, 2017, accounted for under the equity method. The Business Segments Review section of this Item 7 includes additional information about BlackRock.

Tax Credit Investments

Included in our equity investments are direct tax credit investments and equity investments held by consolidated entities. These tax credit investment balances included unfunded commitments totaling \$.8 billion and \$.7 billion at December 31, 2017 and December 31, 2016, respectively. These unfunded commitments are included in Other Liabilities on our Consolidated Balance Sheet.

Note 2 Loan Sale and Servicing Activities and Variable Interest Entities in the Notes To Consolidated Financial Statements in Item 8 of this Report has further information on Tax Credit Investments.

Private Equity and Other

The majority of our other equity investments consists of our private equity portfolio. The private equity portfolio is an illiquid portfolio consisting of mezzanine and equity investments that vary by industry, stage and type of investment. Private equity investments carried at estimated fair value totaled \$1.3 billion and \$1.4 billion at December 31, 2017 and December 31, 2016, respectively. As of December 31, 2017, \$1.1 billion was invested directly in a variety of companies and \$.2 billion was invested indirectly through various private equity funds. See Item 1 Business -Supervision and Regulation of this Report for discussion of the potential impacts of the Volcker Rule provisions of Dodd-Frank on our interests in and of private funds covered by the Volcker Rule, including the five-year extension we received in February 2017 to conform certain equity investments subject to the Volcker Rule.

Included in our other equity investments are Visa Class B common shares, which are recorded at cost. At December 31, 2017, the estimated value of our investment in Visa Class B common shares was approximately \$661 million and our cost basis was not significant. Visa Class B common shares that we own are transferable only under limited circumstances until they can be converted into shares of the publicly-traded class of stock, which cannot happen until the settlement of the pending interchange litigation. See Note 6 Fair Value and Note 19 Legal Proceedings in the Notes To Consolidated Financial

Statements in Item 8 of this Report for additional information regarding our Visa agreements. In the fourth quarter of 2017, we recorded a negative derivative fair value adjustment of \$248 million related to swap agreements with purchasers of Visa Class B common shares. These fair value adjustments were primarily related to the extension of anticipated timing of litigation resolution.

We also have certain other equity investments, the majority of which represent investments in affiliated and non-affiliated funds with both traditional and alternative investment strategies. Net gains related to these investments were not significant during 2017 and 2016.

Impact of Inflation

Our assets and liabilities are primarily financial in nature and typically have varying maturity dates. Accordingly, future changes in prices do not affect the obligations to pay or receive fixed and determinable amounts of money. However, during periods of inflation, there may be a subsequent impact affecting certain fixed costs or expenses, an erosion of consumer and customer purchasing power, and fluctuations in the need or demand for our products and services. Should significant levels of inflation occur, our business could potentially be impacted by, among other things, reducing our tolerance for extending credit or causing us to incur additional credit losses resulting from possible increased default rates.

Financial Derivatives

We use a variety of financial derivatives as part of the overall asset and liability risk management process to help manage exposure to market and credit risk inherent in our business activities. Substantially all such instruments are used to manage risk related to changes in interest rates. Interest rate swaps, interest rate caps and floors, swaptions, options, forwards and futures contracts are the primary instruments we use for interest rate risk management. We also enter into derivatives with customers to facilitate their risk management activities.

Financial derivatives involve, to varying degrees, market and credit risk. Periodic cash payments are exchanged for interest rate swaps, options and future contracts. Premiums are also exchanged for options contracts. Therefore, cash requirements and exposure to credit risk are significantly less than the notional amount on these instruments.

Further information on our financial derivatives is presented in Note 1 Accounting Policies, Note 6 Fair Value and Note 13 Financial Derivatives in the Notes To Consolidated Financial Statements in Item 8 of this Report, which is incorporated here by reference.

Not all elements of market and credit risk are addressed through the use of financial derivatives, and such instruments may be ineffective for their intended purposes due to unanticipated market changes, among other reasons.

Operational Risk Management

Operational risk is the risk to the current or projected financial condition and resilience arising from inadequate or failed internal processes or systems, human errors or misconduct, or adverse external events. Operational risk is inherent to the entire organization.

Operational risk management is embedded in our culture and decision-making processes through a systematic approach whereby operational risks and exposures are: 1) identified and assessed; 2) managed through the design and implementation of controls; 3) measured and evaluated against our risk tolerance limits; and 4) appropriately reported to management and the Risk Committee. Strong operational risk management and well-informed risk-based decisions benefit us by improving the customer experience, enhancing compliance, reducing reputational risk, minimizing losses, and establishing an appropriate amount of required operational risk capital held by us.

The Operational Risk Management Framework supports our effective and consistent management of operational risk. The primary purpose of the framework is to enable us to understand our operational risks and manage them to the desired risk profile, in line with our Risk Appetite. Additionally, the guidance established within the framework enables management to make well-informed risk-based business decisions.

The framework provides a disciplined and structured process for us to manage operational risk across eight operational risk domains. These domains provide a comprehensive view of operational risk and allow us to discuss operational risk in a standard way, facilitating reporting and ongoing risk mitigation.

The operational risk domains are:

- Operations: Risk resulting from inadequate or failed internal processes, misconduct or errors of people or fraud.
- Compliance: Risk of legal or regulatory sanctions, financial loss, or damage to reputation resulting from failure to comply with laws, regulations, rules, self-regulatory standards, or other regulatory requirements.
- Data Management: Risk associated with incomplete or inaccurate data.
- Model: Risk associated with the design, implementation, and ongoing use and management of a model.
- Technology and Systems: Risk associated with the use, operation, and adoption of technology.
- Information Security: Risk resulting from the failure to protect information and ensure appropriate access to, and use and handling of information assets.
- Business Continuity: Risk of potential disruptive events to business activities.

Third Party: Risk arising from failure of third party providers to conduct activity in a safe and sound manner and in compliance with contract provisions and applicable laws and regulations.

We utilize operational risk management programs within the framework, including Risk Control and Self-Assessments, scenario analysis, and internal and external loss event review and analysis, to assess existing risks, determine potential/ emerging risks and evaluate the effectiveness of internal controls. The program tools and methodology enable our business managers to identify potential risks and control gaps.

Lines of business are responsible for identifying, owning, managing, and monitoring the operational risks and controls associated with its business activities and product or service offerings to within acceptable levels. Centralized functions, such as Business Continuity, Enterprise Third Party Management, and Information Security, are responsible for the development, implementation and management of their individual programs and for the development and maintenance of the policies, procedures, methodologies, tools, and technology utilized across the enterprise to identify, assess, monitor, and report program risks. Additionally, independent risk management reviews and challenges line of business adherence to the framework to ensure proper controls are in place and appropriate risk mitigation plans are established as necessary.

Compliance Risk

Enterprise Compliance is responsible for coordinating the compliance risk component of our Operational Risk Management Framework. Compliance issues are identified and tracked through enterprise-wide monitoring and tracking programs. Key compliance risk issues are escalated through a comprehensive risk reporting process at both a business and enterprise level and incorporated, as appropriate, into the development and assessment of our operational risk profile. A committee, chaired by the Chief Compliance Officer, is responsible for oversight of compliance and fiduciary risk management programs across PNC. In order to help understand and proactively address emerging regulatory issues where appropriate, Enterprise Compliance communicates regularly with various regulators having supervisory or regulatory responsibilities with respect to us, our subsidiaries, or businesses and participates in forums focused on regulatory and compliance matters in the financial services industry.

CRITICAL ACCOUNTING ESTIMATES AND JUDGMENTS

Our consolidated financial statements are prepared by applying certain accounting policies. Note 1 Accounting Policies in the Notes To Consolidated Financial Statements in Item 8 of this Report describes the most significant accounting policies that we use. Certain of these policies require us to make estimates or economic assumptions that may vary under different assumptions or conditions and such variations may significantly affect our reported results and financial position for the period or in future periods.

Fair Value Measurements

We must use estimates, assumptions, and judgments when assets and liabilities are required to be recorded at, or adjusted to reflect, fair value. Assets and liabilities carried at fair value inherently result in a higher degree of financial statement volatility. Fair values and the information used to record valuation adjustments for certain assets and liabilities are based on either quoted market prices or are provided by independent third-party sources, including appraisers and valuation specialists, when available. When such third-party information is not available, we estimate fair value primarily by using cash flow and other financial modeling techniques. Changes in underlying factors, assumptions, or estimates in any of these areas could materially impact our future financial condition and results of operations.

We apply ASC 820 – Fair Value Measurements. This guidance defines fair value as the price that would be received to sell a financial asset or paid to transfer a financial liability in an orderly transaction between market participants at the measurement date. This guidance requires a three level hierarchy for disclosure of assets and liabilities recorded at fair value. The classification of assets and liabilities within the hierarchy is based on whether the inputs to the valuation methodology used in the measurement are observable or unobservable.

The following table summarizes the assets and liabilities measured at fair value on a recurring basis at December 31, 2017 and December 31, 2016, respectively, and the portions of such assets and liabilities that are classified within Level 3 of the valuation hierarchy. Level 3 assets and liabilities are those where the fair value is estimated using significant unobservable inputs.

	December 31, 2017		December 31, 2			2016		
Dollars in millions		Total Fair Value	,	Level 3		Total Fair Value		Level 3
Total assets	\$	69,673	\$	6,475	\$	74,608	\$	8,830
Total assets at fair value as a percentage of consolidated assets	18%		20%	20%				
Level 3 assets as a percentage of total assets at fair value	9%		12%					
Level 3 assets as a percentage of consolidated assets				2%				2%
Total liabilities	\$	4,233	\$	531	\$	4,818	\$	433
Total liabilities at fair value as a percentage of consolidated liabilities	1%		2%					
Level 3 liabilities as a percentage of total liabilities at fair value	of total liabilities at fair value 13%			9%				
Level 3 liabilities as a percentage of consolidated liabilities	<1%			<1%				

The majority of assets recorded at fair value are included in the securities available for sale portfolio. The majority of Level 3 assets represent non-agency residential mortgagebacked securities in the securities available for sale portfolio, equity investments and mortgage servicing rights. The decline in Level 3 assets was driven by the transfer of certain commercial mortgage loans held for sale to Level 2 and settlements related to residential mortgage-backed securities available for sale during the period. For further information on fair value, see Note 6 Fair Value in the Notes To the Consolidated Financial Statements in Item 8 of this Report.

Allowances for Loan and Lease Losses and Unfunded Loan Commitments and Letters of Credit

We maintain the ALLL and the Allowance for Unfunded Loan Commitments and Letters of Credit at levels that we believe to be appropriate to absorb estimated probable credit losses incurred in the loan and lease portfolios and on these unfunded credit facilities as of the balance sheet date. Our determination of the allowances is based on periodic evaluations of the loan and lease portfolios and unfunded credit facilities and other relevant factors. These critical estimates include significant use of our own historical data and complex methods to interpret them. We have an ongoing process to evaluate and enhance the quality, quantity and timeliness of our data and interpretation methods used in the determination of these allowances. These evaluations are inherently subjective, as they require material estimates and may be susceptible to significant change, and include, among others:

- Probability of default (PD),
- Loss given default (LGD),
- Outstanding balance of the loan,
- Movement through delinquency stages,
- Amounts and timing of expected future cash flows,
- Value of collateral, which may be obtained from third parties, and
- Qualitative factors, such as changes in current economic conditions, that may not be reflected in modeled results.

Table 35: Fair Value Measurements – Summary

For all loans, the ALLL is the sum of three components: (i) asset specific/individual impaired reserves, (ii) quantitative (formulaic or pooled) reserves and (iii) qualitative (judgmental) reserves. The reserve calculation and determination process is dependent on the use of key assumptions. Key reserve assumptions and estimation processes react to and are influenced by observed changes in loan portfolio performance experience, the financial strength of the borrower, and economic conditions. For unfunded commitments, the reserve estimate also includes estimation of the probability of funding. Key reserve assumptions are periodically updated.

To the extent actual outcomes differ from our estimates, additional provision for credit losses may be required that would reduce future earnings. See the following for additional information:

- Allowances For Loan And Lease Losses And Unfunded Loan Commitments And Letters Of Credit in the Credit Risk Management section of this Item 7, and
- Note 1 Accounting Policies and Note 4 Allowance for Loan and Lease Losses in the Notes To Consolidated Financial Statements and Allocation of Allowance for Loan and Lease Losses in the Statistical Information (Unaudited) section of Item 8 of this Report.

Goodwill

Goodwill arising from business acquisitions represents the value attributable to unidentifiable intangible elements in the business acquired. Most of our goodwill relates to value inherent in the Retail Banking and Corporate & Institutional Banking businesses.

The value of goodwill is supported by earnings, which is driven by our invested assets and transaction volume and, for certain businesses, the market value of assets under administration or for which processing services are provided. Lower earnings and realized profitability resulting from a lack of growth or our inability to deliver cost-effective services over sustained periods can lead to impairment of goodwill, which could result in a current period charge to earnings. At least annually, in the fourth quarter, or more frequently if events occur or circumstances have changed significantly from the annual test date, management reviews the current operating environment and strategic direction of each reporting unit taking into consideration any events or changes in circumstances that may have an effect on the unit. For this review, inputs are generated and used in calculating the fair value of the reporting unit, which is compared to its carrying amount ("Step 1" of the goodwill impairment test) as further discussed below. The fair values of our reporting units are determined using a discounted cash flow valuation model with assumptions based upon market comparables. Additionally, we may also evaluate certain financial metrics that are indicative of fair value, including market quotes, price to earnings ratios and recent acquisitions involving other financial institutions. A reporting unit is defined as an operating segment or one level below an operating segment. If the fair value of the reporting unit is less than its carrying amount, the reporting unit's

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goodwill would be evaluated for impairment. In this circumstance, the implied fair value of reporting unit goodwill, which is determined as if the reporting unit had been acquired in a business combination, would be compared to the carrying amount of that goodwill ("Step 2" of the goodwill impairment test). If the carrying amount of goodwill exceeds the implied fair value of goodwill, the difference is recognized as an impairment loss.

The results of our annual 2017 impairment test indicated that the estimated fair values of our reporting units with goodwill exceeded their carrying values by at least 10% and are not considered to be at risk of not passing Step 1. By definition, assumptions utilized in estimating the fair value of a reporting unit are judgmental and inherently uncertain, but absent a significant change in economic conditions of a reporting unit, we would not expect the fair values of these reporting units to decrease below their respective carrying values. Similarly, there were no impairment charges related to goodwill in 2016 or 2015.

See Note 7 Goodwill and Mortgage Servicing Rights in the Notes To Consolidated Financial Statements in Item 8 of this Report for additional information.

Residential and Commercial Mortgage Servicing Rights

We elect to measure our residential and commercial mortgage servicing rights (MSRs) at fair value. This election was made to be consistent with our risk management strategy to hedge changes in the fair value of these assets. The fair value of residential and commercial MSRs is estimated by using a discounted cash flow valuation model which calculates the present value of estimated future net servicing cash flows, taking into consideration actual and expected mortgage loan prepayment rates, discount rates, servicing costs, and other factors which are determined based on current market conditions.

We employ risk management strategies designed to protect the value of MSRs from changes in interest rates and related market factors. The values of the residential and commercial MSRs are economically hedged with securities and derivatives, including interest-rate swaps, options, and forward mortgage-backed and futures contracts. As interest rates change, these financial instruments are expected to have changes in fair value negatively correlated to the change in fair value of the hedged MSR portfolios. The hedge relationships are actively managed in response to changing market conditions over the life of the MSRs. Selecting appropriate financial instruments to economically hedge residential or commercial MSRs requires significant management judgment to assess how mortgage rates and prepayment speeds could affect the future values of MSRs. Hedging results can frequently be less predictable in the short term, but over longer periods of time are expected to protect the economic value of the MSRs.

The following sections of this Report provide further information on residential and commercial MSRs:

- Note 6 Fair Value included in the Notes To Consolidated Financial Statements in Item 8 of this Report.
- Note 7 Goodwill and Mortgage Servicing Rights included in the Notes To Consolidated Financial Statements in Item 8 of this Report.

Income Taxes

In the normal course of business, we and our subsidiaries enter into transactions for which the tax treatment is unclear or subject to varying interpretations. In addition, filing requirements, methods of filing and the calculation of taxable income in various state and local jurisdictions are subject to differing interpretations.

We evaluate and assess the relative risks and merits of the tax treatment of transactions, filing positions, filing methods and taxable income calculations after considering statutes, regulations, judicial precedent, and other information, and maintain tax accruals consistent with our evaluation of these relative risks and merits. The result of our evaluation and assessment is by its nature an estimate. We and our subsidiaries are routinely subject to audit and challenges from taxing authorities. In the event we resolve a challenge for an amount different than amounts previously accrued, we will account for the difference in the period in which we resolve the matter.

Where our accounting of certain income tax effects of the Tax Cuts and Jobs Act enacted on December 22, 2017 is complete, these tax effects have been included in the financial statements. However, to the extent our accounting for certain income tax effects is incomplete, but can be reasonably estimated, the estimated effects are included as provisional amounts in the financial statements. During the measurement period, which will end on December 21, 2018, these estimates may be adjusted upon obtaining or analyzing additional information about facts and circumstances or clarification of uncertain aspects of the newly enacted tax law. If known, the adjustments would have affected the initially reported provisional amounts.

Legal Contingencies

For a description of the significant estimates and judgments associated with establishing reserves for legal contingencies, see Note 19 Legal Proceedings in the Notes To Consolidated Financial Statements in Item 8 of this Report.

Recently Issued Accounting Standards

Revenue Recognition

In May 2014, the Financial Accounting Standard Board (FASB) issued Accounting Standards Update (ASU) 2014-09, *Revenue from Contracts with Customers* (Topic 606). This ASU clarifies the principles for recognizing revenue and replaces nearly all existing revenue recognition guidance in U.S. GAAP with one accounting model. The core principle of the guidance is that an entity should recognize revenue when it satisfies a performance obligation by transferring a promised good or service to a customer. The ASU requires additional qualitative and quantitative disclosures relating to the nature, amount, timing and uncertainty of revenue and cash flows arising from contracts with customers.

We adopted this standard as of January 1, 2018 under the modified retrospective approach. The impact of adoption was immaterial to PNC's consolidated results of operations and financial position. The most significant impact of adoption will be expanded disclosures relating to disaggregation of inscope revenue, which will be included in our first quarter 2018 Form 10-Q.

Financial Instruments

In January 2016, the FASB issued ASU 2016-01, Financial Instruments - Overall (Subtopic 825-10): Recognition and Measurement of Financial Assets and Financial Liabilities. This ASU changes the accounting for certain equity investments, financial liabilities under the fair value option and presentation and disclosure requirements for financial instruments. Equity investments not accounted for under the equity method of accounting will be measured at fair value with any changes in fair value recognized in net income. For an equity investment which does not have a readily determinable fair value, an election can be made to measure the investment at cost, less any impairment, plus or minus changes in value resulting from observable price changes in identical or similar instruments of the issuer. The ASU also simplifies the impairment assessment of equity investments for which fair value is not readily determinable.

We adopted this standard as of January 1, 2018 under the modified retrospective approach, except for the amendment related to equity securities without readily determinable fair values, which is applied prospectively. The impact of adoption was immaterial to PNC's consolidated results of operations and financial position.

Leases

In February 2016, the FASB issued ASU 2016-02, Leases (Topic 842). The primary change in the new guidance is the recognition of lease assets and lease liabilities by lessees for operating leases. The ASU requires lessees to recognize a right-of-use asset and related lease liability for all leases with lease terms of more than 12 months. The recognition, measurement and presentation of expenses and cash flows arising from a lease by a lessee will depend on its classification as a finance or operating lease. The ASU is effective for annual periods, and interim periods within those annual periods, beginning after December 15, 2018 using a

modified retrospective approach through a cumulative-effect adjustment. Early adoption is permitted.

Our implementation efforts are ongoing, including the deployment of a lease accounting software solution. We are currently evaluating the impact of various accounting policy elections, the discount rate to present value the future minimum payments under operating leases, and the impact of new disclosure requirements. We are substantially complete with the evaluation of our initial lease population. We expect, at a minimum, to recognize lease liabilities and corresponding right-of-use assets commensurate with the present value of the future minimum payments required under operating leases as disclosed in Note 8 Premises, Equipment and Leasehold Improvements in the Notes To Consolidated Financial Statements in this Report. We do not expect a material change to the timing of our expense recognition.

Credit Losses

In June 2016, the FASB issued ASU 2016-13, Financial Instruments - Credit Losses (Topic 326): Measurement of Credit Losses on Financial Instruments. The ASU requires the use of an expected credit loss methodology; specifically, current expected credit losses (CECL) for the remaining life of the asset will be recognized at the time of origination or acquisition. The CECL methodology will apply to loans, debt securities, and other financial assets and net investment in leases not accounted for at fair value through net income. It will also apply to off-balance sheet credit exposures except for unconditionally cancellable commitments. Assets in the scope of the ASU will be presented at the net amount expected to be collected after deducting the allowance for credit losses from the amortized cost basis of the assets. Enhanced credit quality disclosures will be required including disaggregation of credit quality indicators by vintage. The ASU is effective for us for the first quarter of 2020 using a modified retrospective approach through a cumulative-effect adjustment to retained earnings as of the beginning of the year of adoption. We do not plan to adopt the standard at its early adoption date in the first quarter of 2019.

The CECL methodology and new disclosures requires significant data collection, building or enhancement of loss models, and process re-development prior to adoption. We established a company-wide, cross-functional governance structure in the third quarter of 2016, which oversees overall strategy for implementation of Topic 326, including model methodology, technology, development, data enhancements and governance issues. We continue to design and develop CECL estimation methodologies and technological solutions. Concurrently, we are assessing and analyzing whether data that is required to comply with the standard is available and accurate.

We continue to believe that the adoption of the standard will result in an overall increase in the allowance for loan losses to cover credit losses over the estimated life of the financial assets. However, the magnitude of the increase in our allowance for loan losses at the adoption date will depend upon the nature and characteristics of the portfolio at the adoption date, as well as macroeconomic conditions and forecasts at that date.

Statement of Cash Flows

In August 2016, the FASB issued ASU 2016-15, Statement of Cash Flows (Topic 230): Classification of Certain Cash Receipts and Cash Payments. The ASU provides guidance on eight specific issues related to classification within the statement of cash flows with the objective of reducing existing diversity in practice. The specific issues cover cash payments for debt prepayment or debt extinguishment costs; cash outflows for settlement of zero-coupon debt instruments or other debt instruments with coupon interest rates that are insignificant; contingent consideration payments that are not made soon after a business combination; proceeds from the settlement of insurance claims; proceeds from the settlement of corporate-owned life insurance policies, including bankowned life insurance policies; distributions received from equity method investees; beneficial interests received in securitization transactions; and clarifies that when no specific GAAP guidance exists and the source of the cash flows are not separately identifiable, then the predominant source of cash flows should be used to determine the classification for the item. We adopted the standard as of January 1, 2018 under the retrospective transition method. The impact of adoption was immaterial to our consolidated statement of cash flows.

Derivatives and Hedging

In August 2017, the FASB issued ASU 2017-12, Derivatives and Hedging (Topic 815): *Targeted Improvements to Accounting for Hedging Activities*. The ASU simplifies the application of hedge accounting by easing the requirements for effectiveness testing, hedge documentation and the application of critical terms match method. The ASU also provides new alternatives for applying hedge accounting to additional hedging strategies and measuring the hedged item in fair value hedges of interest rate risk.

The ASU is effective for annual periods, and interim periods within those annual periods, beginning after December 15, 2018 with early adoption permitted. All transition requirements and elections should be applied to hedging relationships existing on the date of adoption and the effect of adoption is required to be reflected as of the beginning of the fiscal year of adoption (i.e. modified retrospective application) through a cumulative-effect adjustment. The amended presentation and disclosure guidance is required only prospectively. One-time transition elections are available to modify existing hedge documentation.

We adopted the standard on January 1, 2018 using the modified retrospective approach with the cumulative effect of initially applying ASU 2017-12 recognized at the date of initial application. The impact of adoption was immaterial to PNC's consolidated results of operations and financial position.

Comprehensive Income

In February 2018, the FASB issued ASU 2018-02, Income Statement - Reporting Comprehensive Income (Topic 220): *Reclassification of Certain Tax Effects from Accumulated Other Comprehensive Income*. This ASU permits the reclassification to retained earnings of the income tax effects stranded within accumulated other comprehensive income (AOCI) as a result of the enactment of the Tax Cuts and Jobs Act. This standard requires qualitative disclosures of the accounting policy relating to releasing income tax effects from AOCI and if the reclassification election is made, the impacts of the change on the financial statements. We adopted this standard as of January 1, 2018 and have elected to reclassify the income tax effects from AOCI to retained earnings at the beginning of the period of adoption. The impact of adoption was immaterial to PNC's consolidated balance sheet.

Recently Adopted Accounting Pronouncements

See Note 1 Accounting Policies in the Notes To the Consolidated Financial Statements in Item 8 of this Report regarding the impact of new accounting pronouncements which we have adopted.

OFF-BALANCE SHEET ARRANGEMENTS AND VARIABLE INTEREST ENTITIES

We engage in a variety of activities that involve entities that are not consolidated or otherwise reflected in our Consolidated Balance Sheet that are generally referred to as "off-balance sheet arrangements." Additional information on these types of activities is included in the following sections of this Report:

- Commitments, including contractual obligations and other commitments, included within the Risk Management section of this Item 7, and
- Note 2 Loan Sale and Servicing Activities and Variable Interest Entities,
- Note 10 Borrowed Funds,
- Note 15 Equity, and
- Note 20 Commitments, all of which are in the Notes To Consolidated Financial Statements included in Item 8 of this Report.

A summary and further description of variable interest entities (VIEs) as of December 31, 2017 and December 31, 2016 is included in Note 1 Accounting Policies and Note 2 Loan Sale and Servicing and Variable Interest Entities in the Notes To Consolidated Financial Statements included in Item 8 of this Report.

Trust Preferred Securities and REIT Preferred Securities

See Note 10 Borrowed Funds and Note 15 Equity in the Notes To Consolidated Financial Statements in Item 8 of this Report for additional information on trust preferred securities issued by PNC Capital Trust C including information on contractual limitations potentially imposed on payments (including dividends) with respect to PNC's equity securities and for additional information on the redemption of the REIT preferred securities issued by PNC Preferred Funding Trust I and PNC Preferred Funding Trust II.

GLOSSARY OF TERMS

<u>Adjusted average total assets</u> – Primarily consisted of total average quarterly (or annual) assets plus/less unrealized losses (gains) on investment securities, less goodwill and certain other intangible assets (net of eligible deferred taxes).

<u>Basel III common equity Tier 1 capital</u> – Common stock plus related surplus, net of treasury stock, plus retained earnings, plus accumulated other comprehensive income for securities currently and those transferred from available for sale and pension and other postretirement benefit plans, subject to phase-in limits, less goodwill, net of associated deferred tax liabilities, less other disallowed intangibles, net of deferred tax liabilities and plus/less other adjustments. Significant common stock investments in unconsolidated financial institutions, as well as mortgage servicing rights and deferred tax assets, must then be deducted to the extent such items individually exceed 10%, or in the aggregate exceed 15%, of our adjusted Basel III common equity Tier 1 capital .

<u>Basel III common equity Tier 1 capital ratio</u> – Common equity Tier 1 capital divided by period-end risk-weighted assets (as applicable).

<u>Basel III Tier 1 capital</u> – Common equity Tier 1 capital, plus qualifying preferred stock, plus certain trust preferred capital securities, plus certain noncontrolling interests that are held by others and plus/less other adjustments.

<u>Basel III Tier 1 capital ratio</u> – Tier 1 capital divided by periodend risk-weighted assets (as applicable).

<u>Basel III Total capital</u> – Tier 1 capital plus qualifying subordinated debt, plus certain trust preferred securities, plus, under the Basel III transitional rules and the standardized approach, the allowance for loan and lease losses included in Tier 2 capital and other.

<u>Basel III Total capital ratio</u> – Total capital divided by periodend risk-weighted assets (as applicable).

<u>Charge-off</u> – Process of removing a loan or portion of a loan from our balance sheet because it is considered uncollectible. We also record a charge-off when a loan is transferred from portfolio holdings to held for sale by reducing the loan carrying amount to the fair value of the loan, if fair value is less than carrying amount.

<u>Combined loan-to-value ratio (CLTV)</u> – This is the aggregate principal balance(s) of the mortgages on a property divided by its appraised value or purchase price.

<u>Common shareholders' equity</u> – Total shareholders' equity less the liquidation value of preferred stock.

<u>Credit valuation adjustment</u> – Represents an adjustment to the fair value of our derivatives for our own and counterparties' non-performance risk.

<u>Criticized commercial loans</u> – Loans with potential or identified weaknesses based upon internal risk ratings that comply with the regulatory classification definitions of "Special Mention," "Substandard" or "Doubtful."

<u>Discretionary client assets under management</u> – Assets over which we have sole or shared investment authority for our customers/clients. We do not include these assets on our Consolidated Balance Sheet.

<u>Duration of equity</u> – An estimate of the rate sensitivity of our economic value of equity. A negative duration of equity is associated with asset sensitivity (*i.e.*, positioned for rising interest rates), while a positive value implies liability sensitivity (*i.e.*, positioned for declining interest rates). For example, if the duration of equity is -1.5 years, the economic value of equity increases by 1.5% for each 100 basis point increase in interest rates.

<u>Earning assets</u> – Assets that generate income, which include: interest-earning deposits with banks; loans held for sale; loans; investment securities; and certain other assets.

<u>Effective duration</u> – A measurement, expressed in years, that, when multiplied by a change in interest rates, would approximate the percentage change in value of on- and off-balance sheet positions.

Efficiency – Noninterest expense divided by total revenue.

<u>Fair value</u> – The price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date.

<u>Fee income</u> – When referring to the components of Noninterest income, we use the term fee income to refer to the following categories within Noninterest income: Asset management; Consumer services; Corporate services; Residential mortgage; and Service charges on deposits.

<u>FICO score</u> – A credit bureau-based industry standard score created by Fair Isaac Co. which predicts the likelihood of borrower default. We use FICO scores both in underwriting and assessing credit risk in our consumer lending portfolio. Lower FICO scores indicate likely higher risk of default, while higher FICO scores indicate likely lower risk of default. FICO scores are updated on a periodic basis.

<u>Foreign exchange contracts</u> – Contracts that provide for the future receipt and delivery of foreign currency at previously agreed-upon terms.

<u>Futures and forward contracts</u> – Contracts in which the buyer agrees to purchase and the seller agrees to deliver a specific financial instrument at a predetermined price or yield. May be settled either in cash or by delivery of the underlying financial instrument.

<u>GAAP</u> – Accounting principles generally accepted in the United States of America.

<u>Home price index (HPI)</u> – A broad measure of the movement of single-family house prices in the U.S.

<u>Impaired loans</u> – Loans are determined to be impaired when, based on current information and events, it is probable that all contractually required payments will not be collected. Impaired loans include commercial nonperforming loans and consumer and commercial TDRs, regardless of nonperforming status. Excluded from impaired loans are nonperforming leases, loans held for sale, loans accounted for under the fair value option, smaller balance homogenous type loans and purchased impaired loans.

<u>Interest rate swap contracts</u> – Contracts that are entered into primarily as an asset/liability management strategy to reduce interest rate risk. Interest rate swap contracts are exchanges of interest rate payments, such as fixed-rate payments for floating-rate payments, based on notional principal amounts.

<u>Intrinsic value</u> – The difference between the price, if any, required to be paid for stock issued pursuant to an equity compensation arrangement and the fair market value of the underlying stock.

<u>Leverage ratio</u> – Tier 1 capital divided by average quarterly adjusted total assets.

<u>LIBOR</u> – Acronym for London InterBank Offered Rate. LIBOR is the average interest rate charged when banks in the London wholesale money market (or interbank market) borrow unsecured funds from each other. LIBOR rates are used as a benchmark for interest rates on a global basis. Our product set includes loans priced using LIBOR as a benchmark.

<u>Loan-to-value ratio (LTV)</u> – A calculation of a loan's collateral coverage that is used both in underwriting and assessing credit risk in our lending portfolio. LTV is the sum total of loan obligations secured by collateral divided by the market value of that same collateral. Market values of the collateral are based on an independent valuation of the collateral. For example, a LTV of less than 90% is better secured and has less credit risk than a LTV of greater than or equal to 90%.

Loss given default (LGD) – An estimate of loss, net of recovery based on collateral type, collateral value, loan exposure, and other factors. Each loan has its own LGD. The LGD risk rating measures the percentage of exposure of a specific credit obligation that we expect to lose if default occurs. LGD is net of recovery, through any means, including but not limited to the liquidation of collateral or deficiency judgments rendered from foreclosure or bankruptcy proceedings.

<u>Nonaccrual loans</u> – Loans for which we do not accrue interest income. Nonaccrual loans include nonperforming loans, in addition to loans accounted for under fair value option and loans accounted for as held for sale for which full collection of contractual principal and/or interest is not probable.

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<u>Nondiscretionary client assets under administration</u> – Assets we hold for our customers/clients in a nondiscretionary, custodial capacity. We do not include these assets on our Consolidated Balance Sheet.

<u>Nonperforming assets</u> – Nonperforming assets include nonperforming loans and OREO, foreclosed and other assets, but exclude certain government insured or guaranteed loans for which we expect to collect substantially all principal and interest, loans held for sale, loans accounted for under the fair value option and purchased impaired loans. We do not accrue interest income on assets classified as nonperforming.

<u>Nonperforming loans</u> – Loans accounted for at amortized cost for which we do not accrue interest income. Nonperforming loans include loans to commercial, commercial real estate, equipment lease financing, home equity, residential real estate, credit card and other consumer customers as well as TDRs which have not returned to performing status. Nonperforming loans exclude certain government insured or guaranteed loans for which we expect to collect substantially all principal and interest, loans held for sale, loans accounted for under the fair value option and purchased impaired loans. Nonperforming loans exclude purchased impaired loans as we are currently accreting interest income over the expected life of the loans.

<u>Notional amount</u> – A number of currency units, shares, or other units specified in a derivative contract.

<u>Operating leverage</u> – The period to period dollar or percentage change in total revenue (GAAP basis) less the dollar or percentage change in noninterest expense. A positive variance indicates that revenue growth exceeded expense growth (*i.e.*, positive operating leverage) while a negative variance implies expense growth exceeded revenue growth (*i.e.*, negative operating leverage).

 $\underline{Options}$ – Contracts that grant the purchaser, for a premium payment, the right, but not the obligation, to either purchase or sell the associated financial instrument at a set price during a specified period or at a specified date in the future.

Other real estate owned (OREO), foreclosed and other assets – Assets taken in settlement of troubled loans primarily through deed-in-lieu of foreclosure or foreclosure. Foreclosed and other assets include real and personal property, equity interests in corporations, partnerships, and limited liability companies. Excludes certain assets that have a government guarantee which are classified as other receivables.

<u>Probability of default (PD)</u> – An internal risk rating that indicates the likelihood that a credit obligor will enter into default status.

<u>Recovery</u> – Cash proceeds received on a loan that we had previously charged off. We credit the amount received to the allowance for loan and lease losses. $\underline{\text{Risk}}$ – The potential that an event or series of events could occur that would threaten our ability to achieve our strategic objectives, thereby negatively affecting shareholder value or reputation.

<u>Risk appetite</u> – A dynamic, forward-looking view on the aggregate amount of risk we are willing and able to take in executing business strategy in light of the current business environment.

<u>Risk limits</u> – Quantitative measures based on forward looking assumptions that allocate the firm's aggregate risk appetite (*e.g.* measure of loss or negative events) to business lines, legal entities, specific risk categories, concentrations and as appropriate, other levels.

<u>Risk profile</u> – The risk profile is a point-in-time assessment of risk. The profile represents overall risk position in relation to the desired risk appetite. The determination of the risk profile's position is based on qualitative and quantitative analysis of reported risk limits, metrics, operating guidelines and qualitative assessments.

<u>Risk-weighted assets</u> – Computed by the assignment of specific risk-weights (as defined by the Board of Governors of the Federal Reserve System) to assets and off-balance sheet instruments.

<u>Servicing rights</u> – An intangible asset or liability created by an obligation to service assets for others. Typical servicing rights include the right to receive a fee for collecting and forwarding payments on loans and related taxes and insurance premiums held in escrow.

<u>Taxable-equivalent interest income</u> – The interest income earned on certain assets that is completely or partially exempt from federal income tax. These tax-exempt instruments typically yield lower returns than taxable investments. To provide more meaningful comparisons of yields and margins for all interest-earning assets, we use interest income on a taxable-equivalent basis in calculating average yields and net interest margins by increasing the interest income earned on tax-exempt assets to make it fully equivalent to interest income earned on other taxable investments. This adjustment is not permitted under GAAP on the Consolidated Income Statement.

<u>Transitional Basel III common equity Tier 1 capital</u> – Common equity Tier 1 capital calculated under Basel III using phased-in definitions and deductions applicable to us during the related presentation period and standardized approach riskweighted assets.

<u>Troubled debt restructuring (TDR)</u> - A loan whose terms have been restructured in a manner that grants a concession to a borrower experiencing financial difficulties. <u>Value-at-risk (VaR)</u> – A statistically-based measure of risk that describes the amount of potential loss which may be incurred due to adverse market movements. The measure is of the maximum loss which should not be exceeded on 95 out of 100 days for a 95% VaR.

<u>Yield curve</u> – A graph showing the relationship between the yields on financial instruments or market indices of the same credit quality with different maturities. For example, a "normal" or "positive" yield curve exists when long-term bonds have higher yields than short-term bonds. A "flat" yield curve exists when yields are the same for short-term and long-term bonds. A "steep" yield curve exists when yields on long-term bonds are significantly higher than on short-term bonds. An "inverted" or "negative" yield curve exists when short-term bonds have higher yields than long-term bonds.

CAUTIONARY STATEMENT REGARDING FORWARD-LOOKING INFORMATION

We make statements in this Report, and we may from time to time make other statements, regarding our outlook for earnings, revenues, expenses, tax rates, capital and liquidity levels and ratios, asset levels, asset quality, financial position, and other matters regarding or affecting us and our future business and operations that are forward-looking statements within the meaning of the Private Securities Litigation Reform Act. Forward-looking statements are typically identified by words such as "believe," "plan," "expect," "anticipate," "see," "look," "intend," "outlook," "project," "forecast," "estimate," "goal," "will," "should" and other similar words and expressions. Forward-looking statements are subject to numerous assumptions, risks and uncertainties, which change over time.

Forward-looking statements speak only as of the date made. We do not assume any duty to update forward-looking statements. Actual results or future events could differ, possibly materially, from those anticipated in forward-looking statements, as well as from historical performance.

Our forward-looking statements are subject to the following principal risks and uncertainties.

- Our businesses, financial results and balance sheet values are affected by business and economic conditions, including the following:
 - Changes in interest rates and valuations in debt, equity and other financial markets.
 - Disruptions in the U.S. and global financial markets.
 - Actions by the Federal Reserve Board, U.S. Treasury and other government agencies, including those that impact money supply and market interest rates.
 - Changes in customer behavior due to newly enacted tax legislation, changing business and economic conditions or legislative or regulatory initiatives.
 - Changes in customers', suppliers' and other counterparties' performance and creditworthiness.

- Slowing or reversal of the current U.S. economic expansion.
- Commodity price volatility.
- Our forward-looking financial statements are subject to the risk that economic and financial market conditions will be substantially different than those we are currently expecting and do not take into account potential legal and regulatory contingencies. These statements are based on our current view that the U.S. economic growth will accelerate somewhat in 2018, in light of stimulus from recently passed corporate and personal income tax cuts that are expected to support business investment and consumer spending, respectively. Further gradual improvement in the labor market this year, including job gains and rising wages, is another positive for consumer spending. Other sources of growth for the U.S. economy in 2018 will be the global economic expansion and the housing market. Although inflation slowed in 2017, it should pick up as the labor market continues to tighten. Short-term interest rates and bond yields are expected to rise throughout 2018; our baseline forecast is for three increases in the federal funds rate in 2018, pushing the rate to a range of 2.00 to 2.25 percent by the end of the year. Longer-term rates are also expected to increase as the Federal Reserve slowly reduces the size of its balance sheet and the federal government borrows more, but at a slower pace than the short-term rates, so we anticipate the yield curve will flatten but not invert.
- Our ability to take certain capital actions, including returning capital to shareholders, is subject to review by the Federal Reserve Board as part of our comprehensive capital plan for the applicable period in connection with the Federal Reserve Board's Comprehensive Capital Analysis and Review (CCAR) process and to the acceptance of such capital plan and non-objection to such capital actions by the Federal Reserve Board.
- Our regulatory capital ratios in the future will depend on, among other things, the company's financial performance, the scope and terms of final capital regulations then in effect (particularly those implementing the international regulatory capital framework developed by the Basel Committee on Banking Supervision (Basel Committee), and management actions affecting the composition of our balance sheet. In addition, our ability to determine, evaluate and forecast regulatory capital ratios, and to take actions (such as capital distributions) based on actual or forecasted capital ratios, will be dependent at least in part on the development, validation and regulatory approval of related models.
- Legal and regulatory developments could have an impact on our ability to operate our businesses, financial condition, results of operations, competitive position, reputation, or pursuit of attractive acquisition opportunities. Reputational impacts could affect matters such as business generation and retention,

liquidity, funding, and ability to attract and retain management. These developments could include:

- Changes resulting from legislative and regulatory reforms, including changes affecting oversight of the financial services industry, consumer protection, pension, bankruptcy and other industry aspects, and changes in accounting policies and principles.
- Changes to regulations governing bank capital and liquidity standards, including due to the Dodd-Frank Act and initiatives of the Basel Committee.
- Unfavorable resolution of legal proceedings or other claims and regulatory and other governmental investigations or other inquiries. These matters may result in monetary judgments or settlements or other remedies, including fines, penalties, restitution or alterations in our business practices, and in additional expenses and collateral costs, and may cause reputational harm to us.
- Results of the regulatory examination and supervision process, including our failure to satisfy requirements of agreements with governmental agencies.
- Impact on business and operating results of any costs associated with obtaining rights in intellectual property claimed by others and of adequacy of our intellectual property protection in general.
- Business and operating results are affected by our ability to identify and effectively manage risks inherent in our businesses, including, where appropriate, through effective use of systems and controls, third-party insurance, derivatives, and capital management techniques, and to meet evolving regulatory capital and liquidity standards.
- Business and operating results also include impacts relating to our equity interest in BlackRock, Inc. and rely to a significant extent on information provided to us by BlackRock. Risks and uncertainties that could affect BlackRock are discussed in more detail by BlackRock in its SEC filings.
- We grow our business in part through acquisitions. Acquisition risks and uncertainties include those presented by the nature of the business acquired, including in some cases those associated with our entry into new businesses or new geographic or other markets and risks resulting from our inexperience in those new areas, as well as risks and uncertainties related to the acquisition transactions themselves, regulatory issues, and the integration of the acquired businesses into PNC after closing.
- Competition can have an impact on customer acquisition, growth and retention and on credit spreads and product pricing, which can affect market share, deposits and revenues. Our ability to anticipate and respond to technological changes can also impact our ability to respond to customer needs and meet competitive demands.

Business and operating results can also be affected by widespread natural and other disasters, pandemics, dislocations, terrorist activities, system failures, security breaches, cyberattacks or international hostilities through impacts on the economy and financial markets generally or on us or our counterparties specifically.

We provide greater detail regarding these as well as other factors in this Report, and elsewhere in this Report, including in the Risk Factors and Risk Management sections and the Legal Proceedings and Commitments Notes of the Notes To Consolidated Financial Statements in this Report. Our forward-looking statements may also be subject to other risks and uncertainties, including those discussed elsewhere in this Report or in our other filings with the SEC.

ITEM 7A – QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

This information is set forth in the Risk Management section of Item 7 and in Note 1 Accounting Policies, Note 6 Fair Value, and Note 13 Financial Derivatives in the Notes To Consolidated Financial Statements in Item 8 of this Report.

ITEM 8 – FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA

REPORT OF INDEPENDENT REGISTERED PUBLIC Accounting Firm

To the Board of Directors and Shareholders of The PNC Financial Services Group, Inc.

Opinions on the Financial Statements and Internal Control over Financial Reporting

We have audited the accompanying consolidated balance sheets of The PNC Financial Services Group, Inc. and its subsidiaries as of December 31, 2017 and December 31, 2016, and the related consolidated statements of income, comprehensive income, changes in equity and cash flows for each of the three years in the period ended December 31, 2017, including the related notes (collectively referred to as the "consolidated financial statements"). We also have audited the Company's internal control over financial reporting as of December 31, 2017, based on criteria established in *Internal Control - Integrated Framework* (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO).

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of the Company as of December 31, 2017 and December 31, 2016, and the results of their operations and their cash flows for each of the three years in the period ended December 31, 2017 in conformity with accounting principles generally accepted in the United States of America. Also in our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2017, based on criteria established in *Internal Control – Integrated Framework (2013)* issued by the COSO.

Basis for Opinions

The Company's management is responsible for these consolidated financial statements, for maintaining effective internal control over financial reporting, and for its assessment of the effectiveness of internal control over financial reporting, included in Management's Report on Internal Control over Financial Reporting under Item 9A. Our responsibility is to express opinions on the Company's consolidated financial statements and on the Company's internal control over financial reporting based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) ("PCAOB") and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the consolidated financial statements are free of material misstatement, whether due to error or fraud, and whether effective internal control over financial reporting was maintained in all material respects.

Our audits of the consolidated financial statements included performing procedures to assess the risks of material misstatement of the consolidated financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the consolidated financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the consolidated financial statements. Our audit of internal control over financial reporting included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. Our audits also included performing such other procedures as we considered necessary in the circumstances. We believe that our audits provide a reasonable basis for our opinions.

Definition and Limitations of Internal Control over Financial Reporting

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (i) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (ii) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (iii) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

/s/ PricewaterhouseCoopers LLP Pittsburgh, Pennsylvania February 28, 2018

We have served as the Company's auditor since 2007.

CONSOLIDATED INCOME STATEMENT

THE PNC FINANCIAL SERVICES GROUP, INC.

	Year ended December 31			31			
In millions, except per share data	 2017		2016		2015		
Interest Income							
Loans	\$ 8,238	\$	7,414	\$	7,203		
Investment securities	1,998		1,826		1,679		
Other	578		412		441		
Total interest income	10,814		9,652		9,323		
Interest Expense							
Deposits	623		430		403		
Borrowed funds	1,083		831		642		
Total interest expense	1,706		1,261		1,045		
Net interest income	9,108		8,391		8,278		
Noninterest Income							
Asset management	1,942		1,521		1,567		
Consumer services	1,415		1,388		1,335		
Corporate services	1,621		1,504		1,491		
Residential mortgage	350		567		566		
Service charges on deposits	695		667		651		
Other	1,198		1,124		1,337		
Total noninterest income	7,221		6,771		6,947		
Total revenue	16,329		15,162		15,225		
Provision For Credit Losses	441		433		255		
Noninterest Expense							
Personnel	5,224		4,841		4,831		
Occupancy	868		861		842		
Equipment	1,065		974		925		
Marketing	244		247		249		
Other	2,997		2,553		2,616		
Total noninterest expense	10,398		9,476		9,463		
Income before income taxes and noncontrolling interests	5,490		5,253		5,507		
Income taxes	102		1,268		1,364		
Net income	5,388		3,985		4,143		
Less: Net income attributable to noncontrolling interests	50		82		37		
Preferred stock dividends	236		209		220		
Preferred stock discount accretion and redemptions	26		6		5		
Net income attributable to common shareholders	\$ 5,076	\$	3,688	\$	3,881		
Earnings Per Common Share							
Basic	\$ 10.49	\$	7.42	\$	7.52		
Diluted	\$ 10.36	\$	7.30	\$	7.39		
Average Common Shares Outstanding							
Basic	481		494		514		
Diluted	486		500		521		

CONSOLIDATED STATEMENT OF COMPREHENSIVE INCOME

THE PNC FINANCIAL SERVICES GROUP, INC.

	Year ended December 3			r 31	1	
In millions		2017		2016		2015
Net income	\$	5,388	\$	3,985	\$	4,143
Other comprehensive income (loss), before tax and net of reclassifications into Net income:						
Net unrealized gains (losses) on non-OTTI securities		16		(369)		(569)
Net unrealized gains (losses) on OTTI securities		172		63		(13)
Net unrealized gains (losses) on cash flow hedge derivatives		(287)		(153)		127
Pension and other postretirement benefit plan adjustments		169		1		(54)
Other		61		(59)		(42)
Other comprehensive income (loss), before tax and net of reclassifications into Net income		131		(517)		(551)
Income tax benefit (expense) related to items of other comprehensive income		(14)		122		178
Other comprehensive income (loss), after tax and net of reclassifications into Net income		117		(395)		(373)
Comprehensive income		5,505		3,590		3,770
Less: Comprehensive income attributable to noncontrolling interests		50		82		37
Comprehensive income attributable to PNC	\$	5,455	\$	3,508	\$	3,733

CONSOLIDATED BALANCE SHEET

THE PNC FINANCIAL SERVICES GROUP, INC.

In millions, except par value	De	ecember 31 2017	December 31 2016
Assets		2017	2010
Cash and due from banks	\$	5,249	\$ 4,879
Interest-earning deposits with banks		28,595	25,711
Loans held for sale (a)		2,655	2,504
Investment securities – available for sale		57,618	60,104
Investment securities – held to maturity		18,513	15,843
Loans (a)		220,458	210,833
Allowance for loan and lease losses		(2,611)	(2,589)
Net loans		217,847	208,244
Equity investments		11,392	10,728
Mortgage servicing rights		1,832	1,758
Goodwill		9,173	9,103
Other (a)		27,894	27,506
Total assets	\$	380,768	\$ 366,380
Liabilities			
Deposits			
Noninterest-bearing	\$	79,864	\$ 80,230
Interest-bearing		185,189	176,934
Total deposits		265,053	257,164
Borrowed funds			
Federal Home Loan Bank borrowings		21,037	17,549
Bank notes and senior debt		28,062	22,972
Subordinated debt		5,200	8,009
Other (b)		4,789	4,176
Total borrowed funds		59,088	52,706
Allowance for unfunded loan commitments and letters of credit		297	301
Accrued expenses and other liabilities		8,745	9,355
Total liabilities		333,183	319,526
Equity			
Preferred stock (c)			
Common stock (\$5 par value, Authorized 800 shares, issued 542 shares)		2,710	2,709
Capital surplus		16,374	16,651
Retained earnings		35,481	31,670
Accumulated other comprehensive income (loss)		(148)	(265
Common stock held in treasury at cost: 69 and 57 shares		(6,904)	(5,066
Total shareholders' equity		47,513	45,699
Noncontrolling interests		72	1,155
Total equity		47,585	46,854
Total liabilities and equity	\$	380,768	\$ 366,380

(a) Our consolidated assets included the following for which we have elected the fair value option: Loans held for sale of \$1.7 billion, Loans of \$.9 billion, and Other assets of \$.3 billion at December 31, 2017 and Loans held for sale of \$2.4 billion, Loans of \$.9 billion, and Other assets of \$.5 billion at December 31, 2016.

(b) Our consolidated liabilities included Other borrowed funds of \$1 billion at both December 31, 2017 and December 31, 2016, for which we have elected the fair value option.

(c) Par value less than \$.5 million at each date.

CONSOLIDATED STATEMENT OF CHANGES IN EQUITY

THE PNC FINANCIAL SERVICES GROUP, INC.

				Shareh	olders' Equ	iity			
	Shares Outstanding Common	Common	Capital Surplus - Preferred	Capital Surplus - Common Stock and	Retained	Accumulated Other Comprehensive	Treasury	Noncontrolling	Total
In millions	Stock	Stock	Stock	Other	Earnings	Income (Loss)	Stock	Interests	Equity
Balance at January 1, 2015 (a)	523	\$ 2,705	\$ 3,946	\$ 12,627	\$26,200	\$ 503	\$ (1,430)	\$ 1,523	\$46,074
Net income					4,106			37	4,143
Other comprehensive income, net of tax						(373)			(373)
Cash dividends declared									
Common (\$2.01 per share)					(1,038)	1			(1,038)
Preferred					(219)	1			(219)
Preferred stock discount accretion			6		(6)	1			
Preferred stock redemption - Series K (b)			(500)					(500)
Common stock activity	1	3		46					49
Treasury stock activity	(20)			(56)			(1,938)		(1,994)
Other				128				(290)	(162)
Balance at December 31, 2015 (a)	504	\$ 2,708	\$ 3,452	\$ 12,745	\$29,043	\$ 130	\$ (3,368)	\$ 1,270	\$45,980
Net income					3,903			82	3,985
Other comprehensive income (loss), net of tax						(395)			(395)
Cash dividends declared									
Common (\$2.12 per share)					(1,061)				(1,061)
Preferred					(209)				(209)
Preferred stock discount accretion			6		(6)				
Preferred stock issuance - Series S (c)			519						519
Common stock activity (d)		1		18					19
Treasury stock activity	(19)			(131)			(1,698)		(1,829)
Other				42				(197)	(155)
Balance at December 31, 2016 (a)	485	\$ 2,709	\$ 3,977	\$ 12,674	\$31,670	\$ (265)	\$ (5,066)	\$ 1,155	\$46,854
Net income					5,338			50	5,388
Other comprehensive income (loss), net of tax						117			117
Cash dividends declared									
Common (\$2.60 per share)					(1,266)				(1,266)
Preferred					(236)				(236)
Preferred stock discount accretion			6		(6)				
Redemption of noncontrolling interests (e)					(19)			(981)	(1,000)
Common stock activity (d)		1		17					18
Treasury stock activity	(12)			(309)			(1,838)		(2,147)
Other			2	7				(152)	(143)
Balance at December 31, 2017 (a)	473	\$ 2,710	\$ 3,985	\$ 12,389	\$35,481	\$ (148)	\$ (6,904)	\$ 72	\$47,585

(a) The par value of our preferred stock outstanding was less than \$.5 million at each date and, therefore, is excluded from this presentation.

(b) On May 4, 2015, we redeemed all 50,000 shares of our Series K preferred stock, as well as all 500,000 Depositary Shares representing fractional interests in such shares, resulting in net outflow of \$500 million.

(c) On November 1, 2016, PNC issued 5,250 shares of Series S preferred stock with a \$1 par value.

(d) Common stock activity totaled less than .5 million shares issued.

(e) Relates to the redemption of Perpetual Trust Securities in the first quarter of 2017. See Note 15 Equity for additional information.

CONSOLIDATED STATEMENT OF CASH FLOWS

THE PNC FINANCIAL SERVICES GROUP, INC.

	Year ended December 31					
In millions		2017		2016		2015
Operating Activities						
Net income	\$	5,388	\$	3,985	\$	4,143
Adjustments to reconcile net income to net cash provided (used) by operating activities						
Provision for credit losses		441		433		255
Depreciation and amortization		1,117		1,193		1,088
Deferred income taxes		(403)		326		404
Changes in fair value of mortgage servicing rights		323		179		274
Gain on sales of Visa Class B common shares				(126)		(169)
Undistributed earnings of BlackRock		(727)		(361)		(407)
Net change in						
Trading securities and other short-term investments		305		(1,167)		203
Loans held for sale		(1,148)		(935)		393
Other assets		757		(644)		1,568
Accrued expenses and other liabilities		(704)		652		(1,788)
Other		350		100		(439)
Net cash provided (used) by operating activities	\$	5,699	\$	3,635	\$	5,525
Investing Activities						
Sales						
Securities available for sale	\$	5,647	\$	3,456	\$	6,723
Loans		2,001		1,897		2,040
Repayments/maturities						
Securities available for sale		10,734		11,061		7,920
Securities held to maturity		2,948		3,209		2,032
Purchases						
Securities available for sale		(13,605)		(19,495)		(26,367)
Securities held to maturity		(5,605)		(4,305)		(4,896)
Loans		(841)		(1,334)		(748)
Net change in						
Federal funds sold and resale agreements		(245)		126		481
Interest-earning deposits with banks		(2,884)		4,835		1,233
Loans		(10,483)		(5,940)		(3,972)
Net cash paid for acquisition		(1,342)				
Other		(1,340)		(952)		(706)
Net cash provided (used) by investing activities	\$	(15,015)	\$	(7,442)	\$	(16,260)

(continued on following page)

CONSOLIDATED STATEMENT OF CASH FLOWS

THE PNC FINANCIAL SERVICES GROUP, INC. (continued from previous page)

	Year ended December 31				
In millions	 2017		2016		2015
Financing Activities					
Net change in					
Noninterest-bearing deposits	\$ (264)	\$	1,212	\$	5,765
Interest-bearing deposits	8,255		7,367		10,812
Federal funds purchased and repurchase agreements	(148)		18		(1,733)
Commercial paper	100				
Other borrowed funds	459		272		(9)
Sales/issuances					
Federal Home Loan Bank borrowings	11,000		1,000		2,250
Bank notes and senior debt	7,062		5,601		8,173
Commercial paper					1,394
Other borrowed funds	427		165		694
Preferred stock			519		
Common and treasury stock	132		151		139
Repayments/maturities					
Federal Home Loan Bank borrowings	(7,512)		(3,559)		(2,147)
Bank notes and senior debt	(1,800)		(3,750)		(2,624)
Subordinated debt	(2,758)		(488)		(524)
Commercial paper			(14)		(6,219)
Other borrowed funds	(318)		(541)		(1,622)
Preferred stock redemption					(500)
Redemption of noncontrolling interests	(1,000)				
Acquisition of treasury stock	(2,447)		(2,062)		(2,152)
Preferred stock cash dividends paid	(236)		(209)		(219)
Common stock cash dividends paid	(1,266)		(1,061)		(1,038)
Net cash provided (used) by financing activities	9,686		4,621		10,440
Net Increase (Decrease) In Cash And Due From Banks	370		814		(295)
Cash and due from banks at beginning of period	4,879		4,065		4,360
Cash and due from banks at end of period	\$ 5,249	\$	4,879	\$	4,065
Supplemental Disclosures					
Interest paid	\$ 1,743	\$	1,317	\$	1,005
Income taxes paid	\$ 72	\$	658	\$	919
Income taxes refunded	\$ 24	\$	111	\$	286
Non-cash Investing and Financing Items					
Transfer from loans to loans held for sale, net	\$ 419	\$	606	\$	285
Transfer from loans to foreclosed assets	\$ 215	\$	281	\$	435
Transfer from trading securities to investment securities	\$ 192				

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

THE PNC FINANCIAL SERVICES GROUP, INC.

BUSINESS

The PNC Financial Services Group, Inc. (PNC) is one of the largest diversified financial services companies in the United States and is headquartered in Pittsburgh, Pennsylvania.

We have businesses engaged in retail banking, including residential mortgage, corporate and institutional banking and asset management, providing many of our products and services nationally. Our primary geographic markets are located in 19 states in the Mid-Atlantic, Midwest and Southeast. We also provide certain products and services internationally.

NOTE 1 ACCOUNTING POLICIES

Basis of Financial Statement Presentation

Our consolidated financial statements include the accounts of the parent company and its subsidiaries, most of which are wholly-owned, certain partnership interests, and variable interest entities.

We prepared these consolidated financial statements in accordance with accounting principles generally accepted in the United States of America (GAAP). We have eliminated intercompany accounts and transactions. We have also reclassified certain prior year amounts to conform to the 2017 presentation, which did not have a material impact on our consolidated financial condition or results of operations.

We have also considered the impact of subsequent events on these consolidated financial statements.

Use of Estimates

We prepared these consolidated financial statements using financial information available at the time of preparation, which requires us to make estimates and assumptions that affect the amounts reported. Our most significant estimates pertain to our fair value measurements and allowances for loan and lease losses and unfunded loan commitments and letters of credit. Actual results may differ from the estimates and the differences may be material to the consolidated financial statements.

Investment in BlackRock, Inc.

We account for our investment in the common stock and Series B Preferred Stock of BlackRock (deemed to be insubstance common stock) under the equity method of accounting. The investment in BlackRock is reflected on our Consolidated Balance Sheet in Equity investments, while our equity in earnings of BlackRock is reported on our Consolidated Income Statement in Asset management noninterest income. We also hold shares of Series C Preferred Stock of BlackRock pursuant to our obligation to partially fund a portion of certain BlackRock long-term incentive plan (LTIP) programs. Since these preferred shares are not deemed to be in-substance common stock, we have elected to account for these preferred shares at fair value and the changes in fair value will offset the impact of marking-to-market the obligation to deliver these shares to BlackRock. Our investment in the BlackRock Series C Preferred Stock is included on our Consolidated Balance Sheet in Other assets. Our obligation to transfer these shares to BlackRock is classified as a derivative not designated as a hedging instrument under GAAP as disclosed in Note 13 Financial Derivatives.

Variable Interest Entities

A variable interest entity (VIE) is a corporation, partnership, limited liability company, or any other legal structure used to conduct activities or hold assets generally that either:

- Does not have equity investors with voting rights that can directly or indirectly make decisions about the entity's activities through those voting rights or similar rights, or
- Has equity investors that do not provide sufficient equity for the entity to finance its activities without additional subordinated financial support.

A VIE often holds financial assets, including loans or receivables, real estate or other property.

VIEs are assessed for consolidation under ASC 810 – Consolidation when we hold a variable interest in these entities. We consolidate a VIE if we are its primary beneficiary. The primary beneficiary of a VIE is determined to be the party that meets both of the following criteria: (i) has the power to make decisions that most significantly affect the economic performance of the VIE; and (ii) has the obligation to absorb losses or the right to receive benefits that in either case could potentially be significant to the VIE. Upon consolidation of a VIE, we recognize all of the VIE's assets, liabilities and noncontrolling interests on our Consolidated Balance Sheet. On a quarterly basis, we determine whether any changes occurred requiring a reassessment of whether we are the primary beneficiary of an entity.

See Note 2 Loan Sale and Servicing Activities and Variable Interest Entities for information about VIEs that we consolidate as well as those that we do not consolidate but in which we hold a significant variable interest.

Revenue Recognition

We earn interest and noninterest income from various sources, including:

- Lending,
- Securities portfolio,
- Asset management,
- Customer deposits,
- Loan sales, loan securitizations, and servicing,
- Brokerage services,
- Sale of loans and securities,
- Certain private equity activities, and
- Securities, derivatives and foreign exchange activities.

We earn fees and commissions from:

- Issuing loan commitments, standby letters of credit and financial guarantees,
- Selling various insurance products,
- Providing treasury management services,
- Providing merger and acquisition advisory and related services
- Debit and credit card transactions, and
- Participating in certain capital markets transactions.

Our Asset management noninterest income includes asset management fees, which are generally based on a percentage of the fair value of the assets under management. Additionally, it includes our share of the earnings of BlackRock recognized under the equity method of accounting.

Service charges on deposit accounts are recognized when earned. Brokerage fees and gains and losses on the sale of securities and certain derivatives are recognized on a tradedate basis.

We record private equity income or loss based on changes in the valuation of the underlying investments or when we dispose of our interest.

We recognize gain/(loss) on changes in the fair value of certain financial instruments where we have elected the fair value option. These financial instruments include certain commercial and residential mortgage loans originated for sale, certain residential mortgage portfolio loans, resale agreements and our investment in BlackRock Series C preferred stock. We also recognize gain/(loss) on changes in the fair value of residential and commercial mortgage servicing rights (MSRs).

We recognize revenue from servicing residential mortgages, commercial mortgages and other consumer loans as earned based on the specific contractual terms. These revenues are reported on the Consolidated Income Statement in the line items Residential mortgage, Corporate services and Consumer services. We recognize revenue from securities, derivatives and foreign exchange customer-related trading, as well as securities underwriting activities, as these transactions occur or as services are provided. We generally recognize gains from the sale of loans upon receipt of cash. Mortgage revenue recognized is reported net of mortgage repurchase reserves.

Cash and Cash Equivalents

Cash and due from banks are considered "cash and cash equivalents" for financial reporting purposes.

Investments

We hold interests in various types of investments. The accounting for these investments is dependent on a number of factors including, but not limited to, items such as:

- Ownership interest,
- Our plans for the investment, and
- The nature of the investment.

Debt Securities

Debt securities are recorded on a trade-date basis. We classify debt securities as held to maturity and carry them at amortized cost if we have the positive intent and ability to hold the securities to maturity. Debt securities that we purchase for certain risk management activities or customer-related trading activities are carried at fair value and classified as trading securities and are reported in the Other assets line item on our Consolidated Balance Sheet. Realized and unrealized gains and losses on trading securities are included in Other noninterest income.

Debt securities not classified as held to maturity or trading are designated as securities available for sale and carried at fair value with unrealized gains and losses, net of income taxes, reflected in Accumulated other comprehensive income (loss).

On at least a quarterly basis, we review all debt securities that are in an unrealized loss position for other than temporary impairment (OTTI). An investment security is deemed impaired if the fair value of the investment is less than its amortized cost. Amortized cost includes adjustments (if any) made to the cost basis of an investment for accretion, amortization, previous other-than-temporary impairments and hedging gains and losses. After an investment security is determined to be impaired, we evaluate whether the decline in value is other-than-temporary. Declines in the fair value of available for sale and held to maturity debt securities that are deemed other-than-temporary and are attributable to credit deterioration are recognized in Other noninterest income on our Consolidated Income Statement in the period in which the determination is made. Declines in fair value which are deemed other-than-temporary and attributable to factors other than credit deterioration are recognized in Accumulated other comprehensive income (loss) on our Consolidated Balance Sheet.

We include all interest on debt securities, including amortization of premiums and accretion of discounts on investment securities, in net interest income using the constant effective yield method generally calculated over the contractual lives of the securities. Effective yields reflect either the effective interest rate implicit in the security at the date of acquisition or the effective interest rate determined based on improved cash flows subsequent to impairment. We compute gains and losses realized on the sale of available for sale debt securities on a specific security basis. These securities gains/(losses) are included in Other noninterest income on the Consolidated Income Statement.

Equity Securities and Partnership Interests

We account for equity securities and equity investments other than BlackRock and private equity investments under one of the following methods:

- Marketable equity securities are recorded on a tradedate basis and are accounted for based on the securities' quoted market prices from a national securities exchange. Those purchased with the intention of selling in the near term are classified as trading and included in Other assets on our Consolidated Balance Sheet. Both realized and unrealized gains and losses on trading securities are included in Noninterest income. Marketable equity securities not classified as trading are designated as securities available for sale with unrealized gains and losses, net of income taxes, reflected in Accumulated other comprehensive income (loss). Any unrealized losses that we have determined to be other-thantemporary on securities classified as available for sale are recognized in current period earnings.
- For investments in limited partnerships, limited liability companies and other investments that are not required to be consolidated, we use either the equity method or the cost method of accounting. We use the equity method for general and limited partner ownership interests and limited liability companies in which we are considered to have significant influence over the operations of the investee. Under the equity method, we record our equity ownership share of net income or loss of the investee in Noninterest income and any dividends received on equity method investments are recorded as a reduction to the investment balance. When an equity investment experiences an other-than-temporary decline in value, we may be required to record a loss on the investment. We use the cost method for all other investments. Under the cost method, there is no change to the cost basis unless there is an other-thantemporary decline in value or dividends received are considered a return on investment. If the decline is determined to be other-than-temporary, we write down the cost basis of the investment to a new cost basis that represents realizable value. The amount of the write-down is accounted for as a loss included in Noninterest income. Distributions received from the income of an investee on cost method investments are included in Noninterest income. Investments described above are included in Equity investments on our Consolidated Balance Sheet.

Private Equity Investments

We report private equity investments, which include direct investments in companies, affiliated partnership interests and indirect investments in private equity funds, at estimated fair value. These estimates are based on available information and may not necessarily represent amounts that we will ultimately realize through distribution, sale or liquidation of the investments. Fair values of publicly-traded direct investments are determined using quoted market prices and are subject to various discount factors arising from security level restrictions, when appropriate. The valuation procedures applied to direct investments and indirect investments are detailed in Note 6 Fair Value. We include all private equity investments within Equity investments on our Consolidated Balance Sheet. Changes in fair value of private equity investments are recognized in Noninterest income.

We consolidate affiliated partnerships when we have determined that we have control of the partnership or are the primary beneficiary if the entity is a VIE. The portion we do not own is reflected in Noncontrolling interests on our Consolidated Balance Sheet.

Loans

Loans are classified as held for investment when management has both the intent and ability to hold the loan for the foreseeable future, or until maturity or payoff. Management's intent and view of the foreseeable future may change based on changes in business strategies, the economic environment, market conditions and the availability of government programs.

Measurement of delinquency status is based on the contractual terms of each loan. Loans that are 30 days or more past due in terms of payment are considered delinquent.

Except as described below, loans held for investment are stated at the principal amounts outstanding, net of unearned income, unamortized deferred fees and costs on originated loans, and premiums or discounts on purchased loans. Interest on performing loans (excluding interest on purchased impaired loans, which is further discussed below) is accrued based on the principal amount outstanding and recorded in Interest income as earned using the constant effective yield method. Loan origination fees, direct loan origination costs, and loan premiums and discounts are deferred and accreted or amortized into Net interest income using the constant effective yield method, over the contractual life of the loan.

In addition to originating loans, we also acquire loans through portfolio purchases or acquisitions of other financial services companies. For certain acquired loans that have experienced a deterioration of credit quality, we follow the guidance contained in ASC 310-30 – Loans and Debt Securities Acquired with Deteriorated Credit Quality. Under this guidance, acquired purchased impaired loans are to be recorded at fair value without the carryover of any existing valuation allowances. When evidence of credit quality deterioration and evidence that it is probable that we will be unable to collect all contractual amounts due exist, we consider the loans to be purchased credit impaired and we estimate the amount and timing of undiscounted expected cash flows at acquisition for each loan either individually or on a pool basis. The excess of undiscounted cash flows expected to be collected on a purchased impaired loan (or pool of loans) over its carrying value represents the accretable yield which is recognized into interest income over the remaining life of the loan (or pool of loans) using the constant effective yield method. Subsequent decreases in expected cash flows that are attributable, at least in part, to credit quality are recognized as impairments through a charge to the provision for credit losses resulting in an increase in the Allowance for Loan and Lease Losses (ALLL). Subsequent increases in expected cash flows are recognized as a provision recapture of previously recorded ALLL or prospectively through an adjustment of the loan's or pool's yield over its remaining life.

Loans Held for Sale

We designate loans as held for sale when we have the intent to sell them. We transfer loans to the Loans held for sale category at the lower of cost or estimated fair value less cost to sell. At the time of transfer, write-downs on the loans are recorded as charge-offs. We establish a new cost basis upon transfer. Any subsequent lower-of-cost-or-market adjustment is determined on an individual loan basis and is recognized as a valuation allowance with any charges included in Other noninterest income.

We have elected to account for certain commercial and residential mortgage loans held for sale at fair value. The changes in the fair value of the commercial mortgage loans are measured and recorded in Other noninterest income while the residential mortgage loans are measured and recorded in Residential mortgage noninterest income each period. See Note 6 Fair Value for additional information.

Interest income with respect to loans held for sale is accrued based on the principal amount outstanding and the loan's contractual interest rate.

In certain circumstances, loans designated as held for sale may be transferred to held for investment based on a change in strategy. We transfer these loans at the lower of cost or estimated fair value; however, any loans originated or purchased for held for sale and designated at fair value remain at fair value for the life of the loan.

Leases

We provide financing for various types of equipment, including aircraft, energy and power systems, and vehicles through a variety of lease arrangements. Direct financing leases are carried at the aggregate of lease payments plus estimated residual value of the leased equipment, less unearned income. Leveraged leases, a form of financing lease, are carried net of nonrecourse debt. We recognize income over the term of the lease using the constant effective yield method. Lease residual values are reviewed for impairment at least annually. Gains or losses on the sale of leased assets are included in Other noninterest income while valuation adjustments on lease residuals are included in Other noninterest expense.

Loan Sales, Loan Securitizations and Retained Interests

We recognize the sale of loans or other financial assets when the transferred assets are legally isolated from our creditors and the appropriate accounting criteria are met. We have sold mortgage and other loans through securitization transactions. In a securitization, financial assets are transferred into trusts or to special purpose entities (SPEs) in transactions to effectively legally isolate the assets from us.

In a securitization, the trust or SPE issues beneficial interests in the form of senior and subordinated securities backed or collateralized by the assets sold to the trust. The senior classes of the asset-backed securities typically receive investment grade credit ratings at the time of issuance. These ratings are generally achieved through the creation of lower-rated subordinated classes of asset-backed securities, as well as subordinated or residual interests. In certain cases, we may retain a portion or all of the securities issued, interest-only strips, one or more subordinated tranches, servicing rights and, in some cases, cash reserve accounts. Securitized loans are removed from the balance sheet and a net gain or loss is recognized in Noninterest income at the time of initial sale. Gains or losses recognized on the sale of the loans depend on the fair value of the loans sold and the retained interests at the date of sale. We generally estimate the fair value of the retained interests based on the present value of future expected cash flows using assumptions as to discount rates, interest rates, prepayment speeds, credit losses and servicing costs, if applicable.

With the exception of loan sales to certain U.S. governmentchartered entities, our loan sales and securitizations are generally structured without recourse to us except for representations and warranties and with no restrictions on the retained interests. We originate, sell and service commercial mortgage loans under the Federal National Mortgage Association (FNMA) Delegated Underwriting and Servicing (DUS) program. Under the provisions of the DUS program, we participate in a loss-sharing arrangement with FNMA. When we are obligated for loss-sharing or recourse, our policy is to record such liabilities initially at fair value and subsequently reserve for estimated losses in accordance with guidance contained in applicable GAAP.

Nonperforming Loans and Leases

The matrix below summarizes our policies for classifying certain loans as nonperforming loans and/or discontinuing the accrual of loan interest income.

	Commercial loans
Loans Classified as Nonperforming and Accounted for as Nonaccrual	 Loans accounted for at amortized cost where: The loan is 90 days or more past due. The loan is rated substandard or worse due to the determination that full collection of principal and interest is not probable as demonstrated by the following conditions: The collection of principal or interest is 90 days or more past due; Reasonable doubt exists as to the certainty of the borrower's future debt service ability, according to the terms of the credit arrangement, regardless of whether 90 days have passed or not; The borrower has filed or will likely file for bankruptcy; The bank advances additional funds to cover principal or interest; We are in the process of liquidating a commercial borrower; or We are pursuing remedies under a guarantee.
Loans Excluded from Nonperforming Classification but Accounted for as Nonaccrual	 Loans accounted for under the fair value option and full collection of principal and interest is not probable. Loans accounted for at the lower of cost or market less costs to sell (held for sale) and full collection of principal and interest is not probable.
Loans Excluded from Nonperforming Classification and Nonaccrual Accounting	• Loans that are well secured and in the process of collection.

	Consumer loans
Loans Classified as Nonperforming and Accounted for as Nonaccrual	 Loans accounted for at amortized cost where full collection of contractual principal and interest is not deemed probable as demonstrated in the policies below: The loan is 90 days past due for home equity and installment loans, and 180 days past due for well secured residential real estate loans; The loan has been modified and classified as a troubled debt restructuring (TDR); Notification of bankruptcy has been received within the last 60 days; The bank holds a subordinate lien position in the loan and the first lien mortgage loan is seriously stressed (i.e., 90 days or more past due); Other loans within the same borrower relationship have been placed on nonaccrual or charge-offs have been taken on them; The bank has repossessed non-real estate collateral securing the loan; or The bank has charged-off the loan to the value of the collateral.
Loans Excluded from Nonperforming Classification but Accounted for as Nonaccrual	 Loans accounted for under the fair value option and full collection of principal and interest is not probable. Loans accounted for at the lower of cost or market less costs to sell (held for sale) and full collection of principal and interest is not probable.
Loans Excluded from Nonperforming Classification and Nonaccrual Accounting	 Purchased impaired loans because interest income is accreted through the accounting model. Certain government insured loans where substantially all principal and interest is insured. Residential real estate loans that are well secured and in the process of collection. Consumer loans and lines of credit, not secured by residential real estate or automobiles, as permitted by regulatory guidance.

See Note 3 Asset Quality in this Report for additional detail on nonperforming assets and asset quality indicators for commercial and consumer loans.

Commercial Loans

We generally charge off Commercial Lending (Commercial, Commercial Real Estate, and Equipment Lease Financing) nonperforming loans when we determine that a specific loan, or portion thereof, is uncollectible. This determination is based on the specific facts and circumstances of the individual loans. In making this determination, we consider the viability of the business or project as a going concern, the past due status when the asset is not well-secured, the expected cash flows to repay the loan, the value of the collateral, and the ability and willingness of any guarantors to perform. Additionally, in general, for smaller commercial loans of \$1 million or less, a partial or full charge-off occurs at 120 days past due for term loans and 180 days past due for revolvers. Certain small business credit card balances that are placed on nonaccrual status when they become 90 days or more past due are charged-off at 180 days past due.

Consumer Loans

Home equity installment loans, home equity lines of credit, and residential real estate loans that are not well-secured and in the process of collection are charged-off at no later than 180 days past due. At that time, the basis in the loan is reduced to the fair value of the collateral less costs to sell. In addition to this policy, the bank recognizes a charge-off on a secured consumer loan when:

- The bank holds a subordinate lien position in the loan and a foreclosure notice has been received on the first lien loan;
- The bank holds a subordinate lien position in the loan which is 30 days or more past due with a combined loan to value ratio of greater than or equal to 110% and the first lien loan is seriously stressed (*i.e.*, 90 days or more past due);
- The loan is modified or otherwise restructured in a manner that results in the loan becoming collateral dependent;
- Notification of bankruptcy has been received within the last 60 days;
- The borrower has been discharged from personal liability through Chapter 7 bankruptcy and has not formally reaffirmed his or her loan obligation to us; or
- The collateral securing the loan has been repossessed and the value of the collateral is less than the recorded investment of the loan outstanding.

For loans that continue to meet any of the above policies, collateral values are updated annually and subsequent declines in collateral values are charged-off resulting in incremental provision for credit loss.

Most consumer loans and lines of credit, not secured by residential real estate, are charged off after 120-180 days past due.

Accounting for Nonperforming Assets and Leases and Other Nonaccrual Loans

For accrual loans, interest income is accrued on a monthly basis and certain fees and costs are deferred upon origination and recognized in income over the term of the loan utilizing an effective yield method. For nonaccrual loans, interest income accrual and deferred fee/cost recognition is discontinued. Additionally, the current year accrued and uncollected interest is reversed through Net interest income and prior year accrued and uncollected interest is charged-off. Nonaccrual loans may also be charged-off to reduce the basis to the fair value of collateral less costs to sell.

If payment is received on a nonaccrual loan, generally the payment is first applied to the recorded investment; payments are then applied to recover any charged-off amounts related to the loan. Finally, if both recorded investment and any chargeoffs have been recovered, then the payment will be recorded as fee and interest income. For certain consumer loans, the receipt of interest payments is recognized as interest income on a cash basis. Cash basis income recognition is applied if a loan's recorded investment is deemed fully collectible and the loan has performed for at least six months. For TDRs, payments are applied based upon their contractual terms unless the related loan is deemed non-performing. TDRs are generally included in nonperforming and nonaccrual loans. However, after a reasonable period of time in which the loan performs under restructured terms and meets other performance indicators, it is returned to performing/accruing status. This return to performing/accruing status demonstrates that the bank expects to collect all of the loan's remaining contractual principal and interest. TDRs resulting from 1) borrowers that have been discharged from personal liability through Chapter 7 bankruptcy and have not formally reaffirmed their loan obligations to us and 2) borrowers that are not currently obligated to make both principal and interest payments under the restructured terms are not returned to accrual status.

Other nonaccrual loans are generally not returned to accrual status until the borrower has performed in accordance with the contractual terms and other performance indicators for at least six months, the period of time which was determined to demonstrate the expected collection of the loan's remaining contractual principal and interest. When a nonperforming loan is returned to accrual status, it is then considered a performing loan.

See Note 3 Asset Quality and Note 4 Allowance for Loan and Lease Losses in this Report for additional TDR information.

Foreclosed assets consist of any asset seized or property acquired through a foreclosure proceeding or acceptance of a deed-in-lieu of foreclosure. Other real estate owned comprises principally commercial and residential real estate properties obtained in partial or total satisfaction of loan obligations. After obtaining a foreclosure judgment, or in some jurisdictions the initiation of proceedings under a power of sale in the loan instruments, the property will be sold. When we are awarded title or completion of deed-in-lieu of foreclosure, we transfer the loan to foreclosed assets included in Other assets on our Consolidated Balance Sheet. Property obtained in satisfaction of a loan is initially recorded at estimated fair value less cost to sell. Based upon the estimated fair value less cost to sell, the recorded investment of the loan is adjusted and, typically, a charge-off/recovery is recognized to the ALLL. We estimate fair values primarily based on appraisals, or sales agreements with third parties. Subsequently, foreclosed assets are valued at the lower of the amount recorded at acquisition date or estimated fair value less cost to sell. Valuation adjustments on these assets and gains or losses realized from disposition of such property are reflected in Other noninterest expense.

For certain mortgage loans that have a government guarantee, we establish a separate other receivable upon foreclosure. The receivable is measured based on the loan balance (inclusive of principal and interest) that is expected to be recovered from the guarantor.

Allowance for Loan and Lease Losses

We maintain the ALLL at a level that we believe to be appropriate to absorb estimated probable credit losses incurred in the loan and lease portfolios as of the balance sheet date. Our determination of the allowance is based on periodic evaluations of these loan and lease portfolios and other relevant factors. This critical estimate includes significant use of our own historical data and complex methods to interpret this data. These evaluations are inherently subjective, as they require material estimates and may be susceptible to significant change, and include, among others:

- Probability of default (PD),
- Loss given default (LGD),
- Outstanding balance of the loan,
- Movement through delinquency stages,
- Amounts and timing of expected future cash flows,
- Value of collateral, which may be obtained from third parties, and
- Qualitative factors, such as changes in current economic conditions, that may not be reflected in modeled results.

For all loans, except purchased impaired loans, the ALLL is the sum of three components: (i) asset specific/individual impaired reserves, (ii) quantitative (formulaic or pooled) reserves and (iii) qualitative (judgmental) reserves.

The reserve calculation and determination process is dependent on the use of key assumptions. Key reserve assumptions and estimation processes react to and are influenced by observed changes in loan portfolio performance experience, the financial strength of the borrower, and economic conditions. Key reserve assumptions are periodically updated.

See Note 4 Allowance for Loan and Lease Losses for additional detail on our ALLL.

Asset Specific/Individual Component

Nonperforming loans that are considered impaired under ASC 310 – Receivables, which include all commercial and consumer TDRs, are evaluated for a specific reserve. Specific reserve allocations are determined as follows:

- For commercial nonperforming loans and commercial TDRs greater than or equal to a defined dollar threshold, specific reserves are based on an analysis of the present value of the loan's expected future cash flows, the loan's observable market price or the fair value of the collateral.
- For commercial nonperforming loans and commercial TDRs below the defined dollar threshold, the individual loan's loss given default (LGD) percentage is multiplied by the loan balance and the results are aggregated for purposes of measuring specific reserve impairment.
- Consumer nonperforming loans are collectively reserved for unless classified as consumer TDRs. For consumer TDRs, specific reserves are determined through an analysis of the present value of the loan's expected future cash flows, except for those instances

where loans have been deemed collateral dependent, including loans where borrowers have been discharged from personal liability through Chapter 7 bankruptcy and have not formally reaffirmed their loan obligations to us. Once that determination has been made, those TDRs are charged down to the fair value of the collateral less costs to sell at each period end.

Commercial Lending Quantitative Component

The estimates of the quantitative component of ALLL for incurred losses within the commercial lending portfolio segment are determined through statistical loss modeling utilizing PD, LGD and outstanding balance of the loan. Based upon loan risk ratings, we assign PDs and LGDs. Each of these statistical parameters is determined based on internal historical data and market data. PD is influenced by such factors as liquidity, industry, obligor financial structure, access to capital and cash flow. LGD is influenced by collateral type, original and/or updated loan-to-value ratio (LTV), facility structure and other factors.

Consumer Lending Quantitative Component

Quantitative estimates within the consumer lending portfolio segment are calculated primarily using transition matrices, including using a roll-rate model. The roll-rate model uses statistical relationships, calculated from historical data that estimate the movement of loan outstandings through the various stages of delinquency and ultimately charge-off over our loss emergence period.

Qualitative Component

While our reserve methodologies strive to reflect all relevant risk factors, there continues to be uncertainty associated with, but not limited to, potential imprecision in the estimation process due to the inherent time lag of obtaining information and normal variations between estimates and actual outcomes. We provide additional reserves that are designed to provide coverage for losses attributable to such risks. The ALLL also includes factors that may not be directly measured in the determination of specific or pooled reserves. Such qualitative factors may include:

- Industry concentrations and conditions,
- Recent credit quality trends,
- Recent loss experience in particular portfolios,
- Recent macro-economic factors,
- Model imprecision,
- Changes in lending policies and procedures,
- Timing of available information, including the performance of first lien positions, and
- Limitations of available historical data.

Allowance for Purchased Non-Impaired Loans

ALLL for purchased non-impaired loans is determined based upon a comparison between the methodologies described above and the remaining acquisition date fair value discount that has yet to be accreted into interest income. After making the comparison, an ALLL is recorded for the amount greater than the discount, or no ALLL is recorded if the discount is greater.

Allowance for Purchased Impaired Loans

ALLL for purchased impaired loans is determined in accordance with ASC 310-30 by comparing the net present value of management's best estimate of cash flows expected to be collected over the life of the loan (or pool of loans) to the recorded investment for a given loan (or pool of loans). In cases where the net present value of expected cash flows is lower than the recorded investment, ALLL is established.

Allowance for Unfunded Loan Commitments and Letters of Credit

We maintain the allowance for unfunded loan commitments and letters of credit at a level we believe is appropriate to absorb estimated probable credit losses incurred on these unfunded credit facilities as of the balance sheet date. We determine the allowance based on periodic evaluations of the unfunded credit facilities, including an assessment of the probability of commitment usage, credit risk factors, and, solely for commercial lending, the terms and expiration dates of the unfunded credit facilities. Other than the estimation of the probability of funding, the reserve for unfunded loan commitments is estimated in a manner similar to the methodology used for determining reserves for funded exposures. The allowance for unfunded loan commitments and letters of credit is recorded as a liability on the Consolidated Balance Sheet. Net adjustments to the allowance for unfunded loan commitments and letters of credit are included in the provision for credit losses.

Mortgage Servicing Rights

We provide servicing under various loan servicing contracts for commercial and residential loans. These contracts are either purchased in the open market or retained as part of a loan securitization or loan sale. All acquired or originated servicing rights are measured at fair value. Fair value is based on the present value of the expected future net cash flows, including assumptions as to:

- Deposit balances and interest rates for escrow and commercial reserve earnings,
- Discount rates,
- Estimated prepayment speeds, and
- Estimated servicing costs.

We measure commercial and residential MSRs at fair value in order to reduce any potential measurement mismatch between our economic hedges and the MSRs. We manage the risk by hedging the fair value of the MSR with derivatives and securities which are expected to increase in value when the value of the servicing right declines. Changes in the fair value of MSRs are recognized as gains/(losses). The fair value of these servicing rights is estimated by using a discounted cash flow valuation model which calculates the present value of estimated future net servicing cash flows, taking into consideration actual and expected mortgage loan prepayment rates, discount rates, servicing costs, and other factors which are determined based on current market conditions.

Fair Value of Financial Instruments

The fair value of financial instruments and the methods and assumptions used in estimating fair value amounts and financial assets and liabilities for which fair value was elected are detailed in Note 6 Fair Value.

Goodwill

We assess goodwill for impairment at least annually, in the fourth quarter, or when events or changes in circumstances indicate the assets might be impaired.

Depreciation and Amortization

For financial reporting purposes, we depreciate premises and equipment, net of salvage value, principally using the straightline method over their estimated useful lives.

We use estimated useful lives for furniture and equipment ranging from one to 10 years, and depreciate buildings over an estimated useful life of up to 40 years. We amortize leasehold improvements over their estimated useful lives of up to 15 years or the respective lease terms, whichever is shorter.

We purchase, as well as internally develop and customize, certain software to enhance or perform internal business functions. Software development costs incurred in the planning and post-development project stages are charged to Noninterest expense. Costs associated with designing software configuration and interfaces, installation, coding programs and testing systems are capitalized and amortized using the straight-line method over periods ranging from one to 10 years.

Other Comprehensive Income

Other comprehensive income, on an after-tax basis, primarily consists of unrealized gains or losses, excluding OTTI attributable to credit deterioration, on investment securities classified as available for sale, unrealized gains or losses on derivatives designated as cash flow hedges, and changes in pension and other postretirement benefit plan liability adjustments. Details of each component are included in Note 16 Other Comprehensive Income.

Treasury Stock

We record common stock purchased for treasury at cost. At the date of subsequent reissue, the treasury stock account is reduced by the cost of such stock on the first-in, first-out basis.

Derivative Instruments and Hedging Activities

We use a variety of financial derivatives as part of our overall asset and liability risk management process to help manage exposure to interest rate, market and credit risk inherent in our business activities. Interest rate and total return swaps, swaptions, interest rate caps and floors, options, forwards, and futures contracts are the primary instruments we use for interest rate risk management.
Financial derivatives involve, to varying degrees, interest rate, market and credit risk. We manage these risks as part of our asset and liability management process and through credit policies and procedures.

We recognize all derivative instruments at fair value as either Other assets or Other liabilities on the Consolidated Balance Sheet and the related cash flows in the Operating Activities section of the Consolidated Statement of Cash Flows. Adjustments for counterparty credit risk are included in the determination of fair value. The accounting for changes in the fair value of a derivative instrument depends on whether it has been designated and qualifies as part of a cash flow or net investment hedging relationship. For all other derivatives, changes in fair value are recognized in earnings.

We utilize a net presentation for derivative instruments on the Consolidated Balance Sheet taking into consideration the effects of legally enforceable master netting agreements. Cash collateral exchanged with counterparties is also netted against the applicable derivative exposures by offsetting obligations to return, or general rights to reclaim, cash collateral against the fair values of the net derivatives being collateralized.

For those derivative instruments that are designated and qualify as accounting hedges, we designate the hedging instrument, based on the exposure being hedged, as a fair value hedge, a cash flow hedge or a hedge of the net investment in a foreign operation.

We formally document the relationship between the hedging instruments and hedged items, as well as the risk management objective and strategy, before undertaking an accounting hedge. To qualify for hedge accounting, the derivatives and related hedged items must be designated as a hedge at inception of the hedge relationship. For accounting hedge relationships, we formally assess, both at the inception of the hedge and on an ongoing basis, if the derivatives are highly effective in offsetting designated changes in the fair value or cash flows of the hedged item. If it is determined that the derivative instrument is not highly effective, hedge accounting is discontinued.

For derivatives that are designated as fair value hedges (*i.e.*, hedging the exposure to changes in the fair value of an asset or a liability attributable to a particular risk, such as changes in LIBOR), changes in the fair value of the hedging instrument are recognized in earnings and offset by also recognizing in earnings the changes in the fair value of the hedged item attributable to the hedged risk. To the extent the change in fair value of the hedged item, the difference or ineffectiveness is reflected in the Consolidated Income Statement in the same financial statement category as the hedged item.

For derivatives designated as cash flow hedges (*i.e.*, hedging the exposure to variability in expected future cash flows), the effective portions of the gain or loss on derivatives are reported as a component of Accumulated other comprehensive income (loss) and subsequently reclassified to income in the same period or periods during which the hedged transaction affects earnings. The change in fair value attributable to the ineffective portion of the hedging instrument is recognized immediately in Interest income.

For derivatives designated as a hedge of net investment in a foreign operation, the effective portions of the gain or loss on the derivatives are reported as a component of Accumulated other comprehensive income (loss). The change in fair value attributable to the ineffective portion of the hedging instrument is recognized immediately in Noninterest income.

We discontinue hedge accounting when it is determined that the derivative no longer qualifies as an effective hedge; the derivative expires or is sold, terminated or exercised; or the derivative is de-designated as a fair value or cash flow hedge or, for a cash flow hedge, it is no longer probable that the forecasted transaction will occur by the end of the originally specified time period. We did not terminate any cash flow hedges in 2017, 2016 or 2015 due to a determination that a forecasted transaction was no longer probable of occurring.

We purchase or originate financial instruments that contain an embedded derivative. At the inception of the transaction, we assess if the economic characteristics of the embedded derivative are clearly and closely related to the economic characteristics of the host contract, whether the hybrid financial instrument is measured at fair value with changes in fair value reported in earnings, and whether a separate instrument with the same terms as the embedded derivative would be a derivative. If the embedded derivative does not meet all of these conditions, the embedded derivative is recorded separately from the host contract with changes in fair value recorded in earnings, unless we elect to account for the hybrid instrument at fair value.

We have elected, on an instrument-by-instrument basis, fair value measurement for certain financial instruments with embedded derivatives.

We enter into commitments to originate residential and commercial mortgage loans for sale. We also enter into commitments to purchase or sell commercial and residential real estate loans. These commitments are accounted for as free-standing derivatives which are recorded at fair value in Other assets or Other liabilities on the Consolidated Balance Sheet. Any gain or loss from the change in fair value after the inception of the commitment is recognized in Noninterest income.

Income Taxes

We account for income taxes under the asset and liability method. Deferred tax assets and liabilities are determined based on differences between the financial reporting and tax bases of assets and liabilities and are measured using the enacted tax rates and laws that we expect will apply at the time when we believe the differences will reverse. Changes in tax rates and tax law are accounted for in the period of enactment. Thus, at the enactment date, deferred taxes are remeasured and the change is recognized in Income Tax expense. The recognition of deferred tax assets requires an assessment to determine the realization of such assets. Realization refers to the incremental benefit achieved through the reduction in future taxes payable or refunds receivable from the deferred tax assets, assuming that the underlying deductible differences and carryforwards are the last items to enter into the determination of future taxable income. We establish a valuation allowance for tax assets when it is more likely than not that they will not be realized, based upon all available positive and negative evidence.

We use the deferral method of accounting on investments that generate investment tax credits. Under this method, the investment tax credits are recognized as a reduction to the related asset.

Earnings Per Common Share

Basic earnings per common share is calculated using the twoclass method to determine income attributable to common shareholders. Unvested share-based payment awards that contain nonforfeitable rights to dividends or dividend equivalents are considered participating securities under the two-class method. Distributed dividends and dividend equivalents related to participating securities and an allocation of undistributed net income to participating securities reduce the amount of income attributable to common shareholders. Income attributable to common shareholders is then divided by the weighted-average common shares outstanding for the period.

Diluted earnings per common share is calculated under the more dilutive of either the treasury method or the two-class method. For the diluted calculation, we increase the weightedaverage number of shares of common stock outstanding by the assumed conversion of outstanding convertible preferred stock from the beginning of the year or date of issuance, if later, and the number of shares of common stock that would be issued assuming the exercise of stock options and warrants and the issuance of incentive shares using the treasury stock method. These adjustments to the weighted-average number of shares of common stock outstanding are made only when such adjustments will dilute earnings per common share. See Note 14 Earnings Per Share for additional information.

PNC Foundation - Related Party Transactions

During 2017 and 2016, we contributed \$200 million and \$75 million, respectively, of BlackRock common stock to the PNC Foundation.

Recently Adopted Accounting Standards

We did not adopt any new accounting standards that had a significant impact during 2017.

Note 2 Loan Sale and Servicing Activities and Variable Interest Entities

Loan Sale and Servicing Activities

We have transferred residential and commercial mortgage loans in securitization or sales transactions in which we have continuing involvement. These transfers have occurred through Agency securitization, Non-agency securitization, and loan sale transactions. Agency securitizations consist of securitization transactions with FNMA, Federal Home Loan Mortgage Corporation (FHLMC) and Government National Mortgage Association (GNMA) (collectively the Agencies). FNMA and FHLMC generally securitize our transferred loans into mortgage-backed securities for sale into the secondary market through SPEs that they sponsor. We, as an authorized GNMA issuer/servicer, pool Federal Housing Administration (FHA) and Department of Veterans Affairs (VA) insured loans into mortgage-backed securities for sale into the secondary market. In Non-agency securitizations, we have transferred loans into securitization SPEs. In other instances, third-party investors have also purchased our loans in loan sale transactions and in certain instances have subsequently sold these loans into securitization SPEs. Securitization SPEs utilized in the Agency and Non-agency securitization transactions are variable interest entities (VIEs).

Our continuing involvement in the FNMA, FHLMC, and GNMA securitizations, Non-agency securitizations, and loan sale transactions generally consists of servicing, repurchasing previously transferred loans under certain conditions and loss share arrangements, and, in limited circumstances, holding of mortgage-backed securities issued by the securitization SPEs.

Depending on the transaction, we may act as the master, primary, and/or special servicer to the securitization SPEs or third-party investors. Servicing responsibilities typically consist of collecting and remitting monthly borrower principal and interest payments, maintaining escrow deposits, performing loss mitigation and foreclosure activities, and, in certain instances, funding of servicing advances. Servicing advances, which are generally reimbursable, are made for principal and interest and collateral protection and are carried in Other assets at cost.

We earn servicing and other ancillary fees for our role as servicer and, depending on the contractual terms of the servicing arrangement, we can be terminated as servicer with or without cause. At the consummation date of each type of loan transfer where we retain the servicing, we recognize a servicing right at fair value. See Note 6 Fair Value and Note 7 Goodwill and Mortgage Servicing Rights for further discussion of our servicing rights. Certain loans transferred to the Agencies contain removal of account provisions (ROAPs). Under these ROAPs, we hold an option to repurchase at par individual delinquent loans that meet certain criteria. In other limited cases, GNMA has granted us the right to repurchase current loans when we intend to modify the borrower's interest rate under established guidelines. When we have the unilateral ability to repurchase a loan, effective control over the loan has been regained and we recognize an asset (in either Loans or Loans held for sale) and a corresponding liability (in Other borrowed funds) on the balance sheet regardless of our intent to repurchase the loan.

The Agency and Non-agency mortgage-backed securities issued by the securitization SPEs that are purchased and held on our balance sheet are typically purchased in the secondary market. We do not retain any credit risk on our Agency mortgage-backed security positions as FNMA, FHLMC, and the U.S. Government (for GNMA) guarantee losses of principal and interest.

We also have involvement with certain Agency and Nonagency commercial securitization SPEs where we have not transferred commercial mortgage loans. These SPEs were sponsored by independent third-parties and the loans held by these entities were purchased exclusively from other thirdparties. Generally, our involvement with these SPEs is as servicer with servicing activities consistent with those described above.

We recognize a liability for our loss exposure associated with contractual obligations to repurchase previously transferred loans due to possible breaches of representations and warranties and also for loss sharing arrangements (recourse obligations) with the Agencies. Other than providing temporary liquidity under servicing advances and our loss exposure associated with our repurchase and recourse obligations, we have not provided nor are we required to provide any type of credit support, guarantees, or commitments to the securitization SPEs or third-party investors in these transactions. The following table provides cash flows associated with our loan sale and servicing activities:

Table 36: Cash Flows Associated with Loan Sale andServicing Activities

In millions		sidential ortgages	mmercial tgages (a)
CASH FLOWS - Year ended December 31, 2017	_		
Sales of loans (b)	\$	5,759	\$ 5,276
Repurchases of previously transferred loans (c)	\$	464	
Servicing fees (d)	\$	374	\$ 126
Servicing advances recovered/(funded), net	\$	101	\$ 48
Cash flows on mortgage-backed securities held (e)	\$	1,527	\$ 206
CASH FLOWS - Year ended December 31, 2016			
Sales of loans (b)	\$	6,913	\$ 3,810
Repurchases of previously transferred loans (c)	\$	534	
Servicing fees (d)	\$	374	\$ 125
Servicing advances recovered/(funded), net	\$	109	\$ (14)
Cash flows on mortgage-backed securities held (e)	\$	1,727	\$ 283

(a) Represents cash flow information associated with both commercial mortgage loan transfer and servicing activities.

(b) Gains/losses recognized on sales of loans were insignificant for the periods presented.

(c) Includes residential mortgage government insured or guaranteed loans eligible for repurchase through the exercise of our removal of account provision option, and loans repurchased due to alleged breaches of origination covenants or representations and warranties made to purchasers.

 (d) Includes contractually specified servicing fees, late charges and ancillary fees.

(e) Represents cash flows on securities we hold issued by a securitization SPE in which we transferred to and/or services loans. The carrying values of such securities held were \$8.8 billion in residential mortgage-backed securities and \$.6 billion in commercial mortgage-backed securities at December 31, 2017 and \$6.9 billion in residential mortgage-backed securities and \$.9 billion in commercial mortgage-backed securities at December 31, 2016.

Table 37 presents information about the principal balances of transferred loans that we service and are not recorded on our Consolidated Balance Sheet. We would only experience a loss on these transferred loans if we were required to repurchase a loan due to a breach in representations and warranties or a loss sharing arrangement associated with our continuing involvement with these loans. The estimate of losses related to breaches in representations and warranties was insignificant at December 31, 2017.

Table 37: Principal Balance, Delinquent Loans and NetCharge-offs Related to Serviced Loans For Others

	 Residential		Commercial
In millions	Mortgages	-	ortgages (a)
December 31, 2017			
Total principal balance	\$ 58,320	\$	49,116
Delinquent loans (b)	\$ 899	\$	355
December 31, 2016			
Total principal balance	\$ 66,081	\$	45,855
Delinquent loans (b)	\$ 1,422	\$	941
Year ended December 31, 2017			
Net charge-offs (c)	\$ 78	\$	965
Year ended December 31, 2016			
Net charge-offs (c)	\$ 97	\$	1,439

(a) Represents information at the securitization level in which we have sold loans and we are the servicer for the securitization.

(b) Serviced delinquent loans are 90 days or more past due or are in process of foreclosure.

(c) Net charge-offs for Residential mortgages represent credit losses less recoveries distributed and as reported to investors during the period. Net charge-offs for Commercial mortgages represent credit losses less recoveries distributed and as reported by the trustee for commercial mortgage backed securitizations. Realized losses for Agency securitizations are not reflected as we do not manage the underlying real estate upon foreclosure and, as such, do not have access to loss information.

Variable Interest Entities (VIEs)

We are involved with various entities in the normal course of business that are deemed to be VIEs. We assess VIEs for consolidation based upon the accounting policies described in Note 1 Accounting Policies. Our consolidated VIEs were insignificant at both December 31, 2017 and December 31, 2016. We have not provided additional financial support to these entities which we are not contractually required to provide.

The following table provides a summary of non-consolidated VIEs with which we have significant continuing involvement but are not the primary beneficiary. We do not consider our continuing involvement to be significant when it relates to a VIE where we only invest in securities issued by the VIE and were not involved in the design of the VIE or where no transfers have occurred between us and the VIE. We have excluded certain transactions with non-consolidated VIEs from the balances presented in Table 38 where we have determined that our continuing involvement is not significant. In addition, where we only have lending arrangements in the normal course of business with entities that could be VIEs, we have excluded these transactions with non-consolidated entities from the balances presented in Table 38. These loans are included as part of the asset quality disclosures that we make in Note 3 Asset Quality.

In millions	PNC Ri	sk of Loss (a)	Carryin	g Value of Assets Owned by PNC	Carrying	Value of Liabilities Owned by PNC
December 31, 2017						
Mortgage-Backed Securitizations (b)	\$	9,738	\$	9,738 (c)		
Tax Credit Investments and Other		3,069		3,001 (d)	\$	858 (e)
Total	\$	12,807	\$	12,739	\$	858
December 31, 2016	,					
Mortgage-Backed Securitizations (b)	\$	8,003	\$	8,003 (c)		
Tax Credit Investments and Other		3,083		3,043 (d)	\$	823 (e)
Total	\$	11,086	\$	11,046	\$	823

Table 38: Non-Consolidated VIEs

(a) This represents loans, investments and other assets related to non-consolidated VIEs, net of collateral (if applicable).

(b) Amounts reflect involvement with securitization SPEs where we transferred to and/or services loans for an SPE and we hold securities issued by that SPE. Values disclosed in the PNC Risk of Loss column represent our maximum exposure to loss for those securities' holdings.

(c) Included in Investment securities, Mortgage servicing rights and Other assets on our Consolidated Balance Sheet.

(d) Included in Investment securities, Loans, Equity investments and Other assets on our Consolidated Balance Sheet.

(e) Included in Deposits and Other liabilities on our Consolidated Balance Sheet.

Mortgage-Backed Securitizations

In connection with each Agency and Non-agency residential and commercial mortgage-backed securitization discussed above, we evaluate each SPE utilized in these transactions for consolidation. In performing these assessments, we evaluate our level of continuing involvement in these transactions as the nature of our involvement ultimately determines whether or not we hold a variable interest and/or are the primary beneficiary of the SPE. Factors we consider in our consolidation assessment include the significance of (i) our role as servicer, (ii) our holdings of mortgage-backed securities issued by the securitization SPE, and (iii) the rights of third-party variable interest holders. The first step in our assessment is to determine whether we hold a variable interest in the securitization SPE. We hold variable interests in Agency and Non-agency securitization SPEs through our holding of residential and commercial mortgage-backed securities issued by the SPEs and/or our recourse obligations. Each SPE in which we hold a variable interest is evaluated to determine whether we are the primary beneficiary of the entity. For Agency securitization transactions, our contractual role as servicer does not give us the power to direct the activities that most significantly affect the economic performance of the SPEs. Thus, we are not the primary beneficiary of these entities. For Non-agency securitization transactions, we would be the primary beneficiary to the extent our servicing activities give us the power to direct the activities that most significantly affect the economic performance of the SPE and we hold a more than insignificant variable interest in the entity.

Details about the Agency and Non-agency securitization SPEs where we hold a variable interest and are not the primary beneficiary are included in Table 38. Our maximum exposure to loss as a result of our involvement with these SPEs is the carrying value of the mortgage-backed securities, servicing assets, servicing advances, and our liabilities associated with our recourse obligations. Creditors of the securitization SPEs have no recourse to our assets or general credit.

Tax Credit Investments and Other

For tax credit investments in which we do not have the right to make decisions that will most significantly impact the economic performance of the entity, we are not the primary beneficiary and thus do not consolidate the entity. These investments are disclosed in Table 38. The table also reflects our maximum exposure to loss exclusive of any potential tax credit recapture. Our maximum exposure to loss is equal to our legally binding equity commitments adjusted for recorded impairment, partnership results, or amortization for qualifying low income housing tax credit investments when applicable. For all legally binding unfunded equity commitments, we increase our recognized investment and recognize a liability. As of December 31, 2017, we had a liability for unfunded commitments of \$.5 billion related to investments in qualified affordable housing projects which is reflected in Other liabilities on our Consolidated Balance Sheet.

Table 38 also includes our involvement in lease financing transactions with limited liability companies (LLCs) engaged in solar power generation that to a large extent provided returns in the form of tax credits. The outstanding financings and operating lease assets are reflected as Loans and Other assets, respectively, on our Consolidated Balance Sheet, whereas related liabilities are reported in Deposits and Other liabilities.

We make certain equity investments in various tax credit limited partnerships or LLCs. The purpose of these investments is to achieve a satisfactory return on capital and to assist us in achieving goals associated with the Community Reinvestment Act. During 2017 and 2016, we recognized \$.2 billion of amortization, \$.2 billion of tax credits, and \$.1 billion of other tax benefits associated with qualified investments in low income housing tax credits within Income taxes.

NOTE 3 ASSET QUALITY

We closely monitor economic conditions and loan performance trends to manage and evaluate our exposure to credit risk. Trends in delinquency rates may be a key indicator, among other considerations, of credit risk within the loan portfolios. The measurement of delinquency status is based on the contractual terms of each loan. Loans that are 30 days or more past due in terms of payment are considered delinquent. Loan delinquencies exclude loans held for sale, purchased impaired loans, nonperforming loans and loans accounted for under the fair value option which are on nonaccrual status, but include government insured or guaranteed loans and accruing loans accounted for under the fair value option.

Nonperforming assets include nonperforming loans and leases, OREO, foreclosed and other assets. Nonperforming loans are those loans accounted for at amortized cost whose credit quality has deteriorated to the extent that full collection of contractual principal and interest is not probable. Interest income is not recognized on these loans. Loans accounted for under the fair value option are reported as performing loans as these loans are accounted for at fair value. However, when nonaccrual criteria is met, interest income is not recognized on these loans. Additionally, certain government insured or guaranteed loans for which we expect to collect substantially all principal and interest are not reported as nonperforming loans and continue to accrue interest. Purchased impaired loans are excluded from nonperforming loans as we are currently accreting interest income over the expected life of the loans.

See Note 1 Accounting Policies for additional information on our loan related policies.

The following tables display the delinquency status of our loans and our nonperforming assets at December 31, 2017 and December 31, 2016, respectively.

Table 39: Analysis of Loan Portfolio (a)

Dollars in millions Past Due Past Due Past Due Past Due Due (b) Loans (c)					Accr	uing]						
	Dollars in millions	han 30 Days	F	Days	Р	Days	0	Dr More	Pa	ast		Nonp		No	Option naccrual		mpaired	Total Loans (d)
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	December 31, 2017																	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Commercial Lending																	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Commercial	\$ 109,989	\$	45	\$	25	\$	39	\$ 109	9		\$	429					\$110,527
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Commercial real estate	28,826		27		2			29)			123					28,978
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$		7,914		17		1			18	8			2					7,934
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Total commercial lending	 146,729		89		28		39	150	5			554					147,439
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Consumer Lending																	
Credit card 5,579 4,3 26 45 114 6 5,699 Other consumer 4utomobile 12,697 79 20 8 107 76 12,880 Education and other 8,525 105 64 159 328 (b) 11 8,864 Total consumer lending 67,751 456 210 698 1,364 1,311 197 2,396 73,019 Total \$ 214,480 \$ 545 \$ 238 \$ 737 \$ 1,520 \$ 1,865 \$ 197 \$ 2,396 \$ 220,458 Percentage of total loans 97.29% .25% .11% .33% .69% .85% .09% 1.08% 100.00 December 31, 2016 Commercial Lending .25,769 5 2 7 143 91 29,010 Equipment lease financing 7,535 29 1 .30 16 .7,581 Total commercial lending 137,014 .115 23 39 177	Home equity	26,561		78		26			\$ 104	4			818			\$	881	28,364
Other consumer View	Residential real estate	14,389		151		74		486	71	1	(b)		400	\$	197		1,515	17,212
Automobile 12,697 79 20 8 107 76 12,880 Education and other 8,525 105 64 159 328 (b) 11 8,864 Total consumer lending 67,751 456 210 698 1,364 1,311 197 2,396 73,019 Total \$ 214,480 \$ 545 \$ 238 \$ 737 \$1,520 \$ 1,865 \$ 197 \$2,396 \$220,458 Percentage of total loans 97.29% .25% .11% .33% .69% .85% .09% 1.08% 100.00 December 31, 2016 39 \$ 140 \$ 496 \$ \$ 18 \$101,64 Commercial Lending \$ 100,710 \$ 81 \$ 20 \$ 39 \$ 140 \$ 496 \$ \$ 18 \$101,64 Commercial Lending 7,535 29 1 30 16 7,581	Credit card	5,579		43		26		45	114	4			6					5,699
Education and other 8,525 105 64 159 328 (b) 11 97 2,396 73,019 Total consumer lending 67,751 456 210 698 1,364 1,311 197 2,396 73,019 Total \$ 214,480 \$ 545 \$ 238 \$ 737 \$1,520 \$ 1,865 \$ 197 \$2,396 \$220,458 Percentage of total loans 97.29% .25% .11% .33% .69% .85% .09% 1.08% 100.00 December 31, 2016 . .11% .33% .69% .85% .09% 1.08% 100.00 December 31, 2016 	Other consumer																	
Total consumer lending 67,751 456 210 698 1,364 1,311 197 2,396 73,019 Total \$ 214,480 \$ 545 \$ 238 \$ 737 \$1,520 \$ 1,865 \$ 197 \$2,396 \$220,458 Percentage of total loans 97.29% .25% .11% .33% .69% .85% .09% 1.08% 100.00 December 31, 2016 .11% .33% .69% .85% .09% 1.08% 100.00 December 31, 2016 .11% .33% .69% .85% .09% 1.08% 100.00 December 31, 2016 .11% .33% .69% .85% .09% 1.08% 100.00 Commercial Lending 100,710 \$ 81<\$	Automobile	12,697		79		20		8	10'	7			76					12,880
Total \$ 214,480 \$ 545 \$ 238 \$ 737 \$ 1,520 \$ 1,865 \$ 197 \$ 2,396 \$ 220,458 Percentage of total loans 97.29% .25% .11% .33% .69% .85% .09% 1.08% 100.00 December 31, 2016	Education and other	8,525		105		64		159	328	8	(b)		11					8,864
Percentage of total loans 97.29% .25% .11% .33% .69% .85% .09% 1.08% 100.00 December 31, 2016 Commercial Lending Commercial Lending 100,710 \$ 81 \$ 20 \$ 39 \$ 140 \$ 496 \$ 18 \$101,364 Commercial Lending 20,755 2 7 143 91 29,010 Equipment lease financing 7,535 29 1 30 16 7,581 Total commercial lending 137,014 115 23 39 177 655 109 137,955 Consumer Lending 137,014 115 23 39 177 655 109 137,955 Consumer Lending 137,014 115 23 39 177 655 109 137,955 Credit card 5,187 33 21 37 91 4 5,282 Other consumer 30 12 5 68 55 12,380 Automobile 12,257	Total consumer lending	67,751		456		210		698	1,364	4			1,311		197		2,396	73,019
December 31, 2016 Image: Commercial Lending Image: Com	Total	\$ 214,480	\$	545	\$	238	\$	737	\$ 1,520)		\$	1,865	\$	197	\$ 2	2,396	\$220,458
Commercial Lending Commercial \$ 100,710 \$ 81 \$ 20 \$ 39 \$ 140 \$ 496 \$ 18 \$ 101,364 Commercial real estate 28,769 5 2 7 143 91 29,010 Equipment lease financing 7,535 29 1 30 16 7,581 Total commercial lending 137,014 115 23 39 177 655 109 137,955 Consumer Lending 137,014 115 23 39 177 655 109 137,955 Consumer Lending 137,014 115 23 39 177 655 109 137,955 Consumer Lending 12,425 159 68 500 727 (b) 501 \$ 219 1,726 15,598 Credit card 5,187 33 21 37 91 4 5,282 12,380 Other consumer	Percentage of total loans	 97.29%		.25%		.11%		.33%	.69	9%			.85%		.09%		1.08%	100.00%
Commercial \$ 100,710 \$ 81 \$ 20 \$ 39 \$ 140 \$ 496 \$ 18 \$101,364 Commercial real estate 28,769 5 2 7 143 91 29,010 Equipment lease financing 7,535 29 1 30 16 7,581 Total commercial lending 137,014 115 23 39 177 655 109 137,955 Consumer Lending 137,014 115 23 39 177 655 109 137,955 Consumer Lending 17,014 115 23 39 177 655 109 137,955 Consumer Lending 12,425 159 68 500 727 (b) 501 \$ 219 1,726 15,988 Credit card 5,187 33 21 37 91 4 5,282 Other consumer 12,257 51 12 5 68 55 12,380 Education and other 9,235 140 78 201 419 (b) 15 9,669 <	December 31, 2016																	
Commercial real estate 28,769 5 2 7 143 91 29,010 Equipment lease financing 7,535 29 1 30 16 7,581 Total commercial lending 137,014 115 23 39 177 655 109 137,955 Consumer Lending 137,014 115 23 39 177 655 109 137,955 Consumer Lending 12,425 159 68 500 727 (b) 501 \$ 219 1,726 15,598 Credit card 5,187 33 21 37 91 4 528 5282 Other consumer 12,257 51 12 5 68 55 12,380 Automobile 12,257 51 12 5 68 55 12,380 Education and other 9,235 140 78 201 419 (b) 15 9,669 Total 66,924 447 209 743 1,399 1,489 219 2,847 72,878 <	Commercial Lending																	
Equipment lease financing 7,535 29 1 30 16 7,581 Total commercial lending 137,014 115 23 39 177 655 109 137,955 Consumer Lending 127,820 64 30 94 914 1,121 29,949 Residential real estate 12,425 159 68 500 727 (b) 501 \$ 219 1,726 15,598 Credit card 5,187 33 21 37 91 4 5,282 Other consumer 12,257 51 12 5 68 55 12,380 Education and other 9,235 140 78 201 419 (b) 15 9,669 Total consumer lending 66,924 447 209 743 1,399 1,489 219 2,847 72,878 Total \$ 203,938 \$ 562 \$ 232 \$ 782 \$ 1,576 \$ 2,144	Commercial	\$ 100,710	\$	81	\$	20	\$	39	\$ 140)		\$	496			\$	18	\$101,364
financing7,53529130167,581Total commercial lending137,0141152339177655109137,955Consumer Lending27,8206430949141,12129,949Residential real estate12,42515968500727(b)501\$2191,72615,988Credit card5,1873321379145,282Other consumer12,25751125685512,380Education and other9,23514078201419(b)159,669Total consumer lending66,9244472097431,3991,4892192,84772,878Total\$203,938\$562\$232\$782\$1,576\$2,144\$219\$2,956\$210,833	Commercial real estate	28,769		5		2			,	7			143				91	29,010
Consumer Lending 27,820 64 30 94 914 1,121 29,949 Residential real estate 12,425 159 68 500 727 (b) 501 \$ 219 1,726 15,988 Credit card 5,187 33 21 37 91 4 5,282 Other consumer		7,535		29		1			30)			16					7,581
Home equity27,8206430949141,12129,949Residential real estate12,42515968500727(b)501\$ 2191,72615,98Credit card5,1873321379145,282Other consumer	Total commercial lending	137,014		115		23		39	17	7			655				109	137,955
Residential real estate 12,425 159 68 500 727 (b) 501 \$ 219 1,726 15,598 Credit card 5,187 33 21 37 91 4 5,282 Other consumer 12,257 51 12 5 68 555 12,380 Education and other 9,235 140 78 201 419 (b) 15 9,669 Total consumer lending 66,924 447 209 743 1,399 1,489 219 2,847 72,878 Total \$ 203,938 \$ 562 \$ 232 \$ 782 \$1,576 \$ 2,144 \$ 219 \$2,956 \$210,833	Consumer Lending																	
Credit card 5,187 33 21 37 91 4 5,127 5,187 Other consumer Image: State of the	Home equity	27,820		64		30			94	4			914				1,121	29,949
Other consumer Instant	Residential real estate	12,425		159		68		500	72	7	(b)		501	\$	219		1,726	15,598
Automobile 12,257 51 12 5 68 55 12,380 Education and other 9,235 140 78 201 419 (b) 15 9,669 Total consumer lending 66,924 447 209 743 1,399 1,489 219 2,847 72,878 Total \$ 203,938 \$ 562 \$ 232 \$ 782 \$1,576 \$ 2,144 \$ 219 \$2,956 \$210,833	Credit card	5,187		33		21		37	9	1			4					5,282
Education and other 9,235 140 78 201 419 (b) 15 9,669 Total consumer lending 66,924 447 209 743 1,399 1,489 219 2,847 72,878 Total \$ 203,938 \$ 562 \$ 232 \$ 782 \$1,576 \$ 2,144 \$ 219 \$ 2,956 \$210,833	Other consumer																	
Total consumer lending 66,924 447 209 743 1,399 1,489 219 2,847 72,878 Total \$ 203,938 \$ 562 \$ 232 \$ 782 \$1,576 \$ 2,144 \$ 219 \$ 2,956 \$210,833	Automobile	12,257		51		12		5	68	8			55					12,380
Total \$ 203,938 \$ 562 \$ 232 \$ 782 \$ 1,576 \$ 2,144 \$ 219 \$ 2,956 \$ 210,833	Education and other	9,235		140		78		201	419	9	(b)		15					9,669
	Total consumer lending	66,924		447		209		743	1,399)			1,489		219		2,847	72,878
	Total	\$ 203,938	\$	562	\$	232	\$	782	\$ 1,570	5		\$	2,144	\$	219	\$ 2	2,956	\$210,833
Percentage of total loans 96.73% .27% .11% .37% .75% 1.02% .10% 1.40% 100.00	Percentage of total loans	 96.73%		.27%		.11%		.37%	.75	5%			1.02%		.10%		1.40%	100.00%

(a) Amounts in table represent recorded investment and exclude loans held for sale. Recorded investment in a loan includes the unpaid principal balance plus net accounting adjustments, less any charge-offs. Recorded investment does not include any associated valuation allowance.

(b) Past due loan amounts exclude purchased impaired loans, even if contractually past due (or if we do not expect to receive payment in full based on the original contractual terms), as we are currently accreting interest income over the expected life of the loans. Past due loan amounts include government insured or guaranteed Residential real estate mortgages totaling \$.6 billion at both December 31, 2017 and December 31, 2016, and Education and other consumer loans totaling \$.3 billion and \$.4 billion at December 31, 2017 and December 31, 2016, respectively.

(c) Consumer loans accounted for under the fair value option for which we do not expect to collect substantially all principal and interest are subject to nonaccrual accounting and classification upon meeting any of our nonaccrual policies. Given that these loans are not accounted for at amortized cost, these loans have been excluded from the nonperforming loan population.

(d) Net of unearned income, net deferred loan fees, unamortized discounts and premiums, and purchase discounts and premiums totaling \$1.2 billion and \$1.3 billion at December 31, 2017 and December 31, 2016, respectively.

In the normal course of business, we originate or purchase loan products with contractual characteristics that, when concentrated, may increase our exposure as a holder of those loan products. Possible product features that may create a concentration of credit risk would include a high original or updated LTV ratio, terms that may expose the borrower to future increases in repayments above increases in market interest rates, and interest-only loans, among others.

We originate interest-only loans to commercial borrowers. Such credit arrangements are usually designed to match borrower cash flow expectations (*e.g.*, working capital lines, revolvers). These products are standard in the financial services industry and product features are considered during the underwriting process to mitigate the increased risk that the interest-only feature may result in borrowers not being able to make interest and principal payments when due. We do not believe that these product features create a concentration of credit risk.

At December 31, 2017, we pledged \$18.7 billion of commercial loans to the Federal Reserve Bank (FRB) and \$62.8 billion of residential real estate and other loans to the Federal Home Loan Bank (FHLB) as collateral for the ability to borrow, if necessary. The comparable amounts at December 31, 2016 were \$22.0 billion and \$60.8 billion, respectively.

Table 40: Nonperforming Assets

Dollars in millions	De	cember 31 2017	De	cember 31 2016
Nonperforming loans				
Total commercial lending	\$	554	\$	655
Total consumer lending (a)		1,311		1,489
Total nonperforming loans		1,865		2,144
OREO, foreclosed and other assets		170		230
Total nonperforming assets	\$	2,035	\$	2,374
Nonperforming loans to total loans		.85%		1.02%
Nonperforming assets to total loans, OREO, foreclosed and other assets		.92%		1.12%
Nonperforming assets to total assets		.53%		.65%
Interest on nonperforming loans (b)				
Computed on original terms	\$	114	\$	111
Recognized prior to nonperforming status	\$	19	\$	21

(a) Excludes most consumer loans and lines of credit not secured by residential real estate, which are charged off after 120 to 180 days past due and are not placed on nonperforming status.

(b) Amounts are for the year ended.

Nonperforming loans also include certain loans whose terms have been restructured in a manner that grants a concession to a borrower experiencing financial difficulties. In accordance with applicable accounting guidance, these loans are considered TDRs. See Note 1 Accounting Policies and the TDR section of this Note 3. Total nonperforming loans in Table 40 include TDRs of \$1.0 billion at December 31, 2017 and \$1.1 billion at December 31, 2016. TDRs that are performing, including consumer credit card TDR loans, totaled \$1.1 billion at both December 31, 2017 and December 31, 2016, and are excluded from nonperforming loans. Nonperforming TDRs are returned to accrual status and classified as performing after demonstrating a period of at least six months of consecutive performance under the restructured terms. Loans where borrowers have been discharged from personal liability through Chapter 7 bankruptcy and have not formally reaffirmed their loan obligations to us and loans to borrowers not currently obligated to make both principal and interest payments under the restructured terms are not returned to accrual status. See the TDRs section of this Note 3 for more information on TDRs.

Additional Asset Quality Indicators

We have two overall portfolio segments – Commercial Lending and Consumer Lending. Each of these two segments comprises multiple loan classes. Classes are characterized by similarities in initial measurement, risk attributes and the manner in which we monitor and assess credit risk. The Commercial Lending segment is composed of the commercial, commercial real estate and equipment lease financing loan classes. The Consumer Lending segment is composed of the home equity, residential real estate, credit card and other consumer loan classes.

Commercial Lending Asset Classes

Commercial Loan Class

For commercial loans, we monitor the performance of the borrower in a disciplined and regular manner based upon the level of credit risk inherent in the loan. To evaluate the level of credit risk, we assign an internal risk rating reflecting the borrower's PD and LGD. This two-dimensional credit risk rating methodology provides granularity in the risk monitoring process on an ongoing basis. These ratings are reviewed and updated, generally at least once per year. Additionally, no less frequently than on an annual basis, we review PD rates related to each rating grade based upon internal historical data. These rates are updated as needed and augmented by market data as deemed necessary. For small balance homogeneous pools of commercial loans, mortgages and leases, we apply statistical modeling to assist in determining the probability of default within these pools. Further, on a periodic basis, we update our LGD estimates associated with each rating grade based upon historical data. The combination of the PD and LGD ratings assigned to commercial loans, capturing both the combination of expectations of default and loss severity in event of default, reflects the relative estimated likelihood of loss at the reporting date. In general, loans with better PD and LGD tend to have a lower likelihood of loss compared to loans with worse PD and LGD. The loss amount also considers an estimate of exposure at date of default, which we also periodically update based upon historical data.

Based upon the amount of the lending arrangement and our risk rating assessment, we follow a formal schedule of written periodic review. Quarterly, we conduct formal reviews of a market's or business unit's entire loan portfolio, focusing on those loans which we perceive to be of higher risk, based upon PDs and LGDs, or loans for which credit quality is weakening. If circumstances warrant, it is our practice to review any customer obligation and its level of credit risk more frequently. We attempt to proactively manage our loans by using various procedures that are customized to the risk of a given loan, including ongoing outreach, contact, and assessment of obligor financial conditions, collateral inspection and appraisal.

Commercial Real Estate Loan Class

We manage credit risk associated with our commercial real estate projects and commercial mortgages similar to commercial loans by analyzing PD and LGD. Additionally, risks associated with commercial real estate projects and commercial mortgage activities tend to be correlated to the loan structure and collateral location, project progress and business environment. As a result, these attributes are also monitored and utilized in assessing credit risk.

Table 41: Commercial Lending Asset Quality Indicators (a)

As with the commercial class, a formal schedule of periodic review is also performed to assess market/geographic risk and business unit/industry risk. Often as a result of these overviews, more in-depth reviews and increased scrutiny are placed on areas of higher risk, including adverse changes in risk ratings, deteriorating operating trends, and/or areas that concern management. These reviews are designed to assess risk and take actions to mitigate our exposure to such risks.

Equipment Lease Financing Loan Class

We manage credit risk associated with our equipment lease financing loan class similar to commercial loans by analyzing PD and LGD.

Based upon the dollar amount of the lease and the level of credit risk, we follow a formal schedule of periodic review. Generally, this occurs quarterly, although we have established practices to review such credit risk more frequently if circumstances warrant. Our review process entails analysis of the following factors: equipment value/residual value, exposure levels, jurisdiction risk, industry risk, guarantor requirements, and regulatory compliance as applicable.

		Criticized Commercial Loans							
In millions	 Pass Rated		Special Mention (b)	S	Substandard (c)	-	Doubtful (d)		Total Loans
December 31, 2017									
Commercial	\$ 105,280	\$	1,858	\$	3,331	\$	58	\$	110,527
Commercial real estate	28,380		148		435		15		28,978
Equipment lease financing	7,754		77		102		1		7,934
Total commercial lending	\$ 141,414	\$	2,083	\$	3,868	\$	74	\$	147,439
December 31, 2016									
Commercial	\$ 96,231	\$	1,612	\$	3,449	\$	72	\$	101,364
Commercial real estate	28,561		98		327		24		29,010
Equipment lease financing	7,395		89		91		6		7,581
Total commercial lending	\$ 132,187	\$	1,799	\$	3,867	\$	102	\$	137,955

(a) Loans are classified as "Pass", "Special Mention", "Substandard" and "Doubtful" based on the Regulatory Classification definitions. We use PDs and LGDs to rate commercial loans.

(b) Special Mention rated loans have a potential weakness that deserves management's close attention. If left uncorrected, these potential weaknesses may result in deterioration of repayment prospects at some future date. These loans do not expose us to sufficient risk to warrant a more adverse classification at the reporting date.

(c) Substandard rated loans have a well-defined weakness or weaknesses that jeopardize the collection or liquidation of debt. They are characterized by the distinct possibility that we will sustain some loss if the deficiencies are not corrected.

(d) Doubtful rated loans possess all the inherent weaknesses of a Substandard loan with the additional characteristics that the weakness makes collection or liquidation in full improbable due to existing facts, conditions, and values.

Consumer Lending Asset Classes

Home Equity and Residential Real Estate Loan Classes We use several credit quality indicators, including delinquency information, nonperforming loan information, updated credit scores, originated and updated loan-to-value (LTV) ratios, and geography, to monitor and manage credit risk within the home equity and residential real estate loan classes. We evaluate mortgage loan performance by source originators and loan servicers. A summary of asset quality indicators follows:

<u>Delinquency/Delinquency Rates</u>: We monitor trending of delinquency/delinquency rates for home equity and residential real estate loans. See Table 39 for additional information.

<u>Nonperforming Loans</u>: We monitor trending of nonperforming loans for home equity and residential real estate loans. See Table 39 for additional information.

<u>Credit Scores</u>: We use a national third-party provider to update FICO credit scores for home equity loans and lines of credit and residential real estate loans at least quarterly. The updated scores are incorporated into a series of credit management reports, which are utilized to monitor the risk in the loan classes.

LTV (inclusive of combined loan-to-value (CLTV) for first and subordinate lien positions): At least annually, we update the property values of real estate collateral and calculate an updated LTV ratio. For open-end credit lines secured by real estate in regions experiencing significant declines in property values, more frequent valuations may occur. We examine LTV migration and stratify LTV into categories to monitor the risk in the loan classes. Historically, we used, and we continue to use, a combination of original LTV and updated LTV for internal risk management and reporting purposes (*e.g.*, line management, loss mitigation strategies). In addition to the fact that estimated property values by their nature are estimates, given certain data limitations it is important to note that updated LTVs may be based upon management's assumptions (*e.g.*, if an updated LTV is not provided by the third-party service provider, home price index (HPI) changes will be incorporated in arriving at management's estimate of updated LTV).

Updated LTV is estimated using modeled property values. The related estimates and inputs are based upon an approach that uses a combination of third-party automated valuation models (AVMs), broker price opinions (BPOs), HPI indices, property location, internal and external balance information, origination data and management assumptions. We generally utilize origination lien balances provided by a third-party, where applicable, which do not include an amortization assumption when calculating updated LTV. Accordingly, the results of the calculations do not represent actual appraised loan level collateral or updated LTV based upon lien balances held by others, and as such, are necessarily imprecise and subject to change as we refine our methodology.

<u>Geography</u>: Geographic concentrations are monitored to evaluate and manage exposures. Loan purchase programs are sensitive to, and focused within, certain regions to manage geographic exposures and associated risks.

A combination of updated FICO scores, originated and updated LTV ratios and geographic location assigned to home equity loans and lines of credit and residential real estate loans is used to monitor the risk in the loan classes. Loans with higher FICO scores and lower LTVs tend to have a lower level of risk. Conversely, loans with lower FICO scores, higher LTVs, and in certain geographic locations tend to have a higher level of risk. The following table presents asset quality indicators for home equity and residential real estate balances, excluding consumer purchased impaired loans of \$2.4 billion and \$2.8 billion at December 31, 2017 and 2016, respectively, and government insured or guaranteed residential real estate mortgages of \$.8 billion at both December 31, 2017 and 2016, respectively.

Table 42: Asset Quality Indicators for Home Equity and Residential Real Estate Loans – Excluding Purchased Impaired and
Government Insured or Guaranteed Loans (a)

	Home	Equit	/	Residential	
December 31, 2017 – in millions	1st Liens		2nd Liens	Real Estate	Total
Current estimated LTV ratios					
Greater than or equal to 125% and updated FICO scores:					
Greater than 660	\$ 108	\$	385	\$ 126	\$ 619
Less than or equal to 660 (b)	21		64	23	108
Missing FICO	1		5	1	7
Greater than or equal to 100% to less than 125% and updated FICO scores:					
Greater than 660	300		842	253	1,395
Less than or equal to 660 (b)	46		143	45	234
Missing FICO	2		9	5	16
Greater than or equal to 90% to less than 100% and updated FICO scores:					
Greater than 660	331		890	324	1,545
Less than or equal to 660	55		134	55	244
Missing FICO	2		9	4	15
Less than 90% and updated FICO scores:					
Greater than 660	13,954		8,066	13,445	35,465
Less than or equal to 660	1,214		774	507	2,495
Missing FICO	42		57	95	194
Total home equity and residential real estate loans	\$ 16,076	\$	11,378	\$ 14,883	\$ 42,337

	Home Equity				Residential	
December 31, 2016 – in millions		1st Liens		2nd Liens	Real Estate	Total
Current estimated LTV ratios						
Greater than or equal to 125% and updated FICO scores:						
Greater than 660	\$	161	\$	629	\$ 174	\$ 964
Less than or equal to 660 (b)		32		110	35	177
Missing FICO		1		9	2	12
Greater than or equal to 100% to less than 125% and updated FICO scores:						
Greater than 660		394		1,190	345	1,929
Less than or equal to 660 (b)		66		211	76	353
Missing FICO		3		10	7	20
Greater than or equal to 90% to less than 100% and updated FICO scores:						
Greater than 660		453		1,100	463	2,016
Less than or equal to 660		77		171	78	326
Missing FICO		1		8	6	15
Less than 90% and updated FICO scores:						
Greater than 660		14,047		7,913	11,153	33,113
Less than or equal to 660		1,323		822	586	2,731
Missing FICO		42		55	102	199
Missing LTV and updated FICO scores:						
Greater than 600					1	1
Total home equity and residential real estate loans	\$	16,600	\$	12,228	\$ 13,028	\$ 41,856

(a) Amounts shown represent recorded investment.

(b) Higher risk loans are defined as loans with both an updated FICO score of less than or equal to 660 and an updated LTV greater than or equal to 100%. The following states had the highest percentage of higher risk loans at December 31, 2017: New Jersey 17%, Pennsylvania 13%, Illinois 13%, Ohio 9%, Maryland 8%, Florida 6%, North Carolina 5% and Michigan 4%. The remainder of the states had lower than 4% of the higher risk loans individually, and collectively they represent approximately 25% of the higher risk loans. The following states had the highest percentage of higher risk loans at December 31, 2016: New Jersey 16%, Pennsylvania 14%, Illinois 12%, Ohio 10%, Florida 7%, Maryland 6%, Michigan 4% and North Carolina 4%. The remainder of the states had lower than 4% of the high risk loans individually, and collectively they represent approximately 27% of the higher risk loans.

Credit Card and Other Consumer Loan Classes

We monitor a variety of asset quality information in the management of the credit card and other consumer loan classes. Other consumer loan classes include education, automobile, and other secured and unsecured lines and loans. Along with the trending of delinquencies and losses for each class, FICO credit score updates are generally obtained monthly, as well as a variety of credit bureau attributes. Loans with high FICO scores tend to have a lower likelihood of loss. Conversely, loans with low FICO scores tend to have a higher likelihood of loss.

Table 43: Credit Card and Other Consumer Loan Classes Asset Quality Indicators

	 Credit C	Card	Other Consumer (a)						
Dollars in millions	Amount	% of Total Loans Using FICO Credit Metric		Amount	% of Total Loans Using FICO Credit Metric				
December 31, 2017									
FICO score greater than 719	\$ 3,457	61%	\$	10,366	63%				
650 to 719	1,596	28%		4,352	27%				
620 to 649	250	4%		659	4%				
Less than 620	272	5%		715	4%				
No FICO score available or required (b)	124	2%		314	2%				
Total loans using FICO credit metric	 5,699	100%		16,406	100%				
Consumer loans using other internal credit metrics (a)				5,338					
Total loan balance	\$ 5,699		\$	21,744					
Weighted-average updated FICO score (b)		735			741				
December 31, 2016									
FICO score greater than 719	\$ 3,244	61%	\$	10,247	65%				
650 to 719	1,466	28%		3,873	25%				
620 to 649	215	4%		552	3%				
Less than 620	229	4%		632	4%				
No FICO score available or required (b)	128	3%		489	3%				
Total loans using FICO credit metric	5,282	100%		15,793	100%				
Consumer loans using other internal credit metrics (a)				6,256					
Total loan balance	\$ 5,282		\$	22,049					
Weighted-average updated FICO score (b)		736			744				

(a) We use updated FICO scores as an asset quality indicator for non-government guaranteed or insured education loans, automobile loans and other secured and unsecured lines and loans. We use internal credit metrics, such as delinquency status, geography or other factors, as an asset quality indicator for government guaranteed or insured education loans and consumer loans to high net worth individuals, as internal credit metrics are more relevant than FICO scores for these types of loans.

(b) Credit card loans and other consumer loans with no FICO score available or required generally refers to new accounts issued to borrowers with limited credit history, accounts for which we cannot obtain an updated FICO score (e.g., recent profile changes), cards issued with a business name and/or cards secured by collateral. Management proactively assesses the risk and size of this loan portfolio and, when necessary, takes actions to mitigate the credit risk. Weighted-average updated FICO score excludes accounts with no FICO score available or required.

Troubled Debt Restructurings (TDRs)

A TDR is a loan whose terms have been restructured in a manner that grants a concession to a borrower experiencing financial difficulty. TDRs result from our loss mitigation activities, and include rate reductions, principal forgiveness, postponement/reduction of scheduled amortization, and extensions, which are intended to minimize economic loss and to avoid foreclosure or repossession of collateral. Additionally, TDRs also result from borrowers that have been discharged from personal liability through Chapter 7 bankruptcy and have not formally reaffirmed their loan obligations to us. In those situations where principal is forgiven, the amount of such principal forgiveness is immediately charged off.

Some TDRs may not ultimately result in the full collection of principal and interest, as restructured, and result in potential incremental losses. These potential incremental losses have been factored into our overall ALLL estimate. The level of any subsequent defaults will likely be affected by future economic conditions. Once a loan becomes a TDR, it will continue to be reported as a TDR until it is ultimately repaid in full, the collateral is foreclosed upon, or it is fully charged off. We held specific reserves in the ALLL of \$.2 billion and \$.3 billion at December 31, 2017 and December 31, 2016, respectively, for the total TDR portfolio.

Table 44 quantifies the number of loans that were classified as TDRs as well as the change in the loans' recorded investment as a result of becoming a TDR during the years 2017, 2016 and 2015. Additionally, the table provides information about the types of TDR concessions. The Principal Forgiveness TDR category includes principal forgiveness and accrued interest forgiveness. The Rate Reduction TDR category includes reduced interest and interest deferral. The Other TDR category primarily includes consumer borrowers that have been discharged from personal liability through Chapter 7 bankruptcy and have not formally reaffirmed their loan obligations to us, as well as postponement/reduction of scheduled amortization and contractual extensions for both consumer and commercial borrowers.

In some cases, there have been multiple concessions granted on one loan. This is most common within the commercial loan portfolio. When there have been multiple concessions granted in the commercial loan portfolio, the principal forgiveness concession was prioritized for purposes of determining the inclusion in Table 44. Second in priority would be rate reduction. In the event that multiple concessions are granted on a consumer loan, concessions resulting from discharge from personal liability through Chapter 7 bankruptcy without formal affirmation of the loan obligations to us would be prioritized and included in the Other type of concession in Table 44. After that, consumer loan concessions would follow the previously discussed priority of concessions for the commercial loan portfolio.

		Pre-TDR Post-TDR Recorded Investment (c)							
During the year ended December 31, 2017 Dollars in millions	Number of Loans	Recorded tment (b)	I	Principal Forgiveness		Rate Reduction		Other	Total
Total commercial lending	120	\$ 293	\$	18	\$	7	\$	227	\$ 252
Total consumer lending	11,993	248				146		97	243
Total TDRs	12,113	\$ 541	\$	18	\$	153	\$	324	\$ 495
During the year ended December 31, 2016 Dollars in millions									
Total commercial lending	143	\$ 524			\$	57	\$	413	\$ 470
Total consumer lending	11,262	245				157		76	233
Total TDRs	11,405	\$ 769			\$	214	\$	489	\$ 703
During the year ended December 31, 2015 Dollars in millions									
Total commercial lending	158	\$ 284	\$	22	\$	4	\$	198	\$ 224
Total consumer lending	10,962	311				190		106	296
Total TDRs	11,120	\$ 595	\$	22	\$	194	\$	304	\$ 520

Table 44: Financial Impact and TDRs by Concession Type (a)

(a) Impact of partial charge-offs at TDR date are included in this table.

(b) Represents the recorded investment of the loans as of the quarter end prior to TDR designation, and excludes immaterial amounts of accrued interest receivable.

(c) Represents the recorded investment of the TDRs as of the end of the quarter in which the TDR occurs, and excludes immaterial amounts of accrued interest receivable.

After a loan is determined to be a TDR, we continue to track its performance under its most recent restructured terms. We consider a TDR to have subsequently defaulted when it becomes 60 days past due after the most recent date the loan was restructured. The recorded investment of loans that were both (i) classified as TDRs or were subsequently modified during each 12-month period preceding January 1, 2017, 2016 and 2015, and (ii) subsequently defaulted during the 12-month period following each of January 1, 2017, 2016 and 2015, totaled \$.1 billion, \$.2 billion and \$.1 billion, respectively.

Impaired Loans

Impaired loans include commercial and consumer nonperforming loans and TDRs, regardless of nonperforming status. TDRs that were previously recorded at amortized cost and are now classified and accounted for as held for sale are also included. Excluded from impaired loans are nonperforming leases, loans accounted for as held for sale other than the TDRs described in the preceding sentence, loans accounted for under the fair value option, smaller balance homogeneous type loans and purchased impaired loans. We did not recognize any interest income on impaired loans that have not returned to performing status, while they were impaired during the year ended December 31, 2017 and December 31, 2016. The following table provides further detail on impaired loans individually evaluated for impairment and the associated ALLL. Certain commercial and consumer impaired loans do not have a related ALLL as the valuation of these impaired loans exceeded the recorded investment.

Table 45: Impaired Loans

In millions		Unpaid Principal Balance	Recorded Investment	Associated Allowance	Average Recorded Investment (a)
December 31, 2017					
Impaired loans with an associated allowance					
Total commercial lending	\$	580	\$ 353	\$ 76	\$ 419
Total consumer lending		1,061	1,014	195	1,072
Total impaired loans with an associated allowance		1,641	1,367	271	1,491
Impaired loans without an associated allowance					
Total commercial lending		494	366		330
Total consumer lending		1,019	638		648
Total impaired loans without an associated allowance		1,513	1,004		978
Total impaired loans	\$	3,154	\$ 2,371	\$ 271	\$ 2,469
December 31, 2016	, i				
Impaired loans with an associated allowance					
Total commercial lending	\$	742	\$ 477	\$ 105	\$ 497
Total consumer lending		1,237	1,185	226	1,255
Total impaired loans with an associated allowance		1,979	1,662	331	1,752
Impaired loans without an associated allowance					
Total commercial lending		447	322		365
Total consumer lending		982	608		604
Total impaired loans without an associated allowance		1,429	930		969
Total impaired loans	\$	3,408	\$ 2,592	\$ 331	\$ 2,721

(a) Average recorded investment is for the years ended December 31, 2017 and 2016.

NOTE 4 ALLOWANCE FOR LOAN AND LEASE LOSSES

We maintain the ALLL at levels that we believe to be appropriate to absorb estimated probable credit losses incurred in the portfolios as of the balance sheet date. We use the two main portfolio segments – Commercial Lending and Consumer Lending, and develop and document the ALLL under separate methodologies for each of these portfolio segments. See Note 1 Accounting Policies for a description of the accounting policies for ALLL. A rollforward of the ALLL and associated loan data follows.

Table 46: Rollforward of Allowance for Loan and Lease Losses and Associated Loan Data

		Commercial		Consumer		Tetal
Dollars in millions		Lending		Lending		Total
December 31, 2017						
Allowance for Loan and Lease Losses	٠	1.504	<i></i>	1.055	A	0.500
January 1	\$	1,534	\$	1,055	\$	2,589
Charge-offs		(221)		(565)		(786)
Recoveries		116		213		329
Net (charge-offs)		(105)		(352)		(457)
Provision for credit losses		147		294		441
Net decrease / (increase) in allowance for unfunded loan commitments and letters of credit		5		(1)		4
Other		1		33		34
December 31	\$	1,582	\$	1,029	\$	2,611
TDRs individually evaluated for impairment	\$	35	\$	195	\$	230
Other loans individually evaluated for impairment		41				41
Loans collectively evaluated for impairment		1,506		561		2,067
Purchased impaired loans				273		273
December 31	\$	1,582	\$	1,029	\$	2,611
Loan Portfolio						
TDRs individually evaluated for impairment	\$	409	\$	1,652	\$	2,061
Other loans individually evaluated for impairment		310				310
Loans collectively evaluated for impairment		146,720		68,102		214,822
Fair value option loans (a)				869		869
Purchased impaired loans				2,396		2,396
December 31	\$	147,439	\$	73,019	\$	220,458
Portfolio segment ALLL as a percentage of total ALLL		61%		39%		100%
Ratio of the allowance for loan and lease losses to total loans		1.07%		1.41%		1.18%
December 31, 2016						
Allowance for Loan and Lease Losses						
January 1	\$	1,605	\$	1,122	\$	2,727
Charge-offs		(363)		(523)		(886)
Recoveries		178		165		343
Net (charge-offs)		(185)		(358)		(543)
Provision for credit losses		153		280		433
Net (increase) in allowance for unfunded loan commitments and letters of credit		(39)		(1)		(40)
Other				12		12
December 31	\$	1,534	\$	1,055	\$	2,589
TDRs individually evaluated for impairment	\$	45	\$	226	\$	271
Other loans individually evaluated for impairment		60				60
Loans collectively evaluated for impairment		1,392		546		1,938
Purchased impaired loans		37		283		320
December 31	\$	1,534	\$	1,055	\$	2,589
Loan Portfolio						
TDRs individually evaluated for impairment	\$	428	\$	1,793	\$	2,221
Other loans individually evaluated for impairment		371				371
Loans collectively evaluated for impairment		137,047		67,345		204,392
Fair value option loans (a)		,		893		893
Purchased impaired loans		109		2,847		2,956
December 31	\$	137,955	\$	72,878	\$	210,833
Portfolio segment ALLL as a percentage of total ALLL	- - - -	59%	4	41%	Ψ	100%

In millions	 Commercial Lending	 Consumer Lending	 Total
December 31, 2015			
Allowance for Loan and Lease Losses			
January 1	\$ 1,571	\$ 1,760	\$ 3,331
Charge-offs	(255)	(550)	(805)
Recoveries	240	179	419
Net charge-offs	(15)	(371)	(386)
Provision for credit losses	55	200	255
Net (increase) / decrease in allowance for unfunded loan commitments and letters of credit	(3)	1	(2)
Other (b)	(3)	(468)	(471)
December 31	\$ 1,605	\$ 1,122	\$ 2,727
TDRs individually evaluated for impairment	\$ 43	\$ 276	\$ 319
Other loans individually evaluated for impairment	76		76
Loans collectively evaluated for impairment	1,437	585	2,022
Purchased impaired loans	49	261	310
December 31	\$ 1,605	\$ 1,122	\$ 2,727
Loan Portfolio			
TDRs individually evaluated for impairment	\$ 434	\$ 1,917	\$ 2,351
Other loans individually evaluated for impairment	309		309
Loans collectively evaluated for impairment	132,632	66,977	199,609
Fair value option loans (a)		905	905
Purchased impaired loans	169	3,353	3,522
December 31	\$ 133,544	\$ 73,152	\$ 206,696
Portfolio segment ALLL as a percentage of total ALLL	59%	41%	100%
Ratio of the allowance for loan and lease losses to total loans	1.20%	1.53%	1.32%

(a) Loans accounted for under the fair value option are not evaluated for impairment as these loans are accounted for at fair value. Accordingly there is no allowance recorded on these loans.

(b) Includes \$468 million in write-offs of purchased impaired loans due to the change in derecognition policy effective December 31, 2015 for certain consumer purchased impaired loans. See Note 1 Accounting Policies in our 2015 Form 10-K for additional information.

Net interest income less the provision for credit losses was \$8.7 billion, \$8.0 billion and \$8.0 billion for 2017, 2016 and 2015, respectively.

NOTE 5 INVESTMENT SECURITIES

Table 47: Investment Securities Summary

·							
In millions		Amortized Cost		Unrea	alized		Fair Value
December 31, 2017				Gains		Losses	value
Securities Available for Sale							
Debt securities							
U.S. Treasury and government agencies	\$	14,432	\$	173	\$	(84) \$	14,521
	Ф	14,452	Ф	175	ф	(84) \$	14,321
Residential mortgage-backed		25 524		101		(240)	25 400
Agency		25,534		121 336		(249)	25,406
Non-agency		2,443		330		(21)	2,758
Commercial mortgage-backed		1.070		2		(59)	1.004
Agency		1,960 2,603		2 19		(58)	1,904
Non-agency		,				(9)	2,613
Asset-backed		5,331		74		(8)	5,397
Other debt		4,322		129		(17)	4,434
Total debt securities		56,625		854		(446)	57,033
Other		587	.	054		(2)	585
Total securities available for sale	\$	57,212	\$	854	\$	(448) \$	57,618
Securities Held to Maturity							
Debt securities							
U.S. Treasury and government agencies	\$	741	\$	37	\$	(13) \$	765
Residential mortgage-backed							
Agency		14,503		77		(139)	14,441
Non-agency		167		7			174
Commercial mortgage-backed							
Agency		407		4			411
Non-agency		538		10			548
Asset-backed		200		1			201
Other debt		1,957		88		(20)	2,025
Total securities held to maturity	\$	18,513	\$	224	\$	(172) \$	18,565
December 31, 2016							
Securities Available for Sale							
Debt securities							
U.S. Treasury and government agencies	\$	13,100	\$	151	\$	(77) \$	13,174
Residential mortgage-backed							
Agency		26,245		170		(287)	26,128
Non-agency		3,191		227		(52)	3,366
Commercial mortgage-backed							
Agency		2,150		3		(34)	2,119
Non-agency		4,023		29		(27)	4,025
Asset-backed		5,938		52		(22)	5,968
Other debt		4,656		104		(37)	4,723
Total debt securities		59,303		736		(536)	59,503
Other		603				(2)	601
Total securities available for sale	\$	59,906	\$	736	\$	(538) \$	60,104
Securities Held to Maturity							
Debt securities							
U.S. Treasury and government agencies	\$	527	\$	35	\$	(22) \$	540
Residential mortgage-backed							
Agency		11,074		68		(161)	10,981
Non-agency		191		7		. /	198
Commercial mortgage-backed				·			
Agency		903		24			927
Non-agency		567		10			577
Asset-backed		558		10		(2)	556
							550
Other debt		2,023		76		(12)	2,087

The fair value of investment securities is impacted by interest rates, credit spreads, market volatility and liquidity conditions. Net unrealized gains and losses in the securities available for sale portfolio are included in Shareholders' equity as Accumulated other comprehensive income or loss, net of tax, unless credit-related. Securities held to maturity are carried at amortized cost. At December 31, 2017, Accumulated other comprehensive income included pretax gains of \$54 million from derivatives that hedged the purchase of investment securities classified as held to maturity. The gains will be accreted into interest income as an adjustment of yield on the securities.

Table 48 presents gross unrealized losses and fair value of debt securities at December 31, 2017 and December 31, 2016. The securities are segregated between investments that have been in a continuous unrealized loss position for less than twelve months and twelve months or more based on the point in time that the fair value declined below the amortized cost basis. The table includes debt securities where the noncredit portion of OTTI has been recognized in Accumulated other comprehensive income (loss).

Table 48: Gross Unrealized Loss and Fair Value of Debt Securities

In millions	Unrealized loss position less than 12 months					Unrealized le 12 months		 Total				
	1	Unrealized Loss		Fair Value		Unrealized Loss	Fair Value	 Unrealized Loss		Fair Value		
December 31, 2017		E033		varue		E033	Value	1033		varue		
Securities Available for Sale												
Debt securities												
U.S. Treasury and government agencies	\$	(42)	\$	6,099	\$	(42)	\$ 1,465	\$ (84)	\$	7,564		
Residential mortgage-backed												
Agency		(47)		8,151		(202)	9,954	(249)		18,105		
Non-agency						(21)	383	(21)		383		
Commercial mortgage-backed						. ,		. ,				
Agency		(11)		524		(47)	1,302	(58)		1,826		
Non-agency		(3)		400		(6)	333	(9)		733		
Asset-backed		(4)		1,697		(4)	462	(8)		2,159		
Other debt		(3)		966		(14)	798	(17)		1,764		
Total debt securities available for sale	\$	(110)	\$	17,837	\$	(336)	\$ 14,697	\$ (446)	\$	32,534		
Securities Held to Maturity				<i>.</i>		` ´ ´				,		
Debt securities												
U.S. Treasury and government agencies	\$	(3)	\$	195	\$	(10)	\$ 255	\$ (13)	\$	450		
Residential mortgage-backed												
Agency		(10)		3,167		(129)	6,168	(139)		9,335		
Other debt		(12)		83		(8)	67	(20)		150		
Total debt securities held to maturity	\$	(25)	\$	3,445	\$	(147)	\$ 6,490	\$ (172)	\$	9,935		
December 31, 2016		· · · · ·				· · · · ·						
Securities Available for Sale												
Debt securities												
U.S. Treasury and government agencies	\$	(57)	\$	3,108	\$	(20)	\$ 2,028	\$ (77)	\$	5,136		
Residential mortgage-backed												
Agency		(267)		16,942		(20)	922	(287)		17,864		
Non-agency		(1)		109		(51)	1,119	(52)		1,228		
Commercial mortgage-backed												
Agency		(33)		1,577		(1)	86	(34)		1,663		
Non-agency		(14)		880		(13)	987	(27)		1,867		
Asset-backed		(5)		1,317		(17)	902	(22)		2,219		
Other debt		(33)		1,827		(4)	243	(37)		2,070		
Total debt securities available for sale	\$	(410)	\$	25,760	\$	(126)	\$ 6,287	\$ (536)	\$	32,047		
Securities Held to Maturity												
Debt securities												
U.S. Treasury and government agencies	\$	(22)	\$	238				\$ (22)	\$	238		
Residential mortgage-backed		. ,						. /				
Agency		(153)		8,041	\$	(8)	\$ 161	(161)		8,202		
Asset-backed						(2)	451	(2)		451		
Other debt		(12)		146			1	(12)		147		
Total debt securities held to maturity	\$	(187)	\$	8,425	\$	(10)	\$ 613	\$ (197)	\$	9,038		

<u>Evaluating Investment Securities for Other-than-</u> <u>Temporary Impairments</u>

For the securities in Table 48, as of December 31, 2017 we do not intend to sell and believe we will not be required to sell the securities prior to recovery of the amortized cost basis.

On at least a quarterly basis, we review all debt securities that are in an unrealized loss position for OTTI, as discussed in Note 1 Accounting Policies. For those securities on our balance sheet at December 31, 2017, where during our quarterly security-level impairment assessments we determined losses represented OTTI, we have recorded cumulative credit losses of \$1.1 billion in earnings and accordingly have reduced the amortized cost of our securities.

The majority of these cumulative impairment charges related to non-agency residential mortgage-backed and asset-backed securities rated BB or lower. During 2017, 2016 and 2015, the OTTI credit losses recognized in noninterest income and the OTTI noncredit losses recognized in accumulated other

Table 50: Contractual Maturity of Debt Securities

comprehensive income (loss), net of tax, on securities were not significant.

Information relating to gross realized securities gains and losses from the sales of securities is set forth in the following table.

Table 49: Gains (Losses) on Sales of Securities Available forSale

In millions	I	Proceeds	iross Jains	Gross osses	G	Net ains	E	Tax xpense
Year ended December 31								
2017	\$	5,722	\$ 38	\$ (31)	\$	7	\$	2
2016	\$	3,489	\$ 24	\$ (8)	\$	16	\$	6
2015	\$	6,829	\$ 56	\$ (13)	\$	43	\$	15

The following table presents, by remaining contractual maturity, the amortized cost, fair value and weighted-average yield of debt securities at December 31, 2017.

December 31, 2017	 1 Year or	 After 1 Year		After 5 Years		After 10		
Dollars in millions	Less	through 5 Years	thre	through 10 Years		Years		Total
Securities Available for Sale								
U.S. Treasury and government agencies	\$ 85	\$ 8,780	\$	4,449	\$	1,118	\$	14,432
Residential mortgage-backed								
Agency	3	45		561		24,925		25,534
Non-agency						2,443		2,443
Commercial mortgage-backed								
Agency	2	259		624		1,075		1,960
Non-agency				451		2,152		2,603
Asset-backed	13	1,846		1,897		1,575		5,331
Other debt	521	2,032		670		1,099		4,322
Total debt securities available for sale	\$ 624	\$ 12,962	\$	8,652	\$	34,387	\$	56,625
Fair value	\$ 626	\$ 12,958	\$	8,695	\$	34,754	\$	57,033
Weighted-average yield, GAAP basis	2.73%	2.12%		2.29%		2.97%		2.67%
Securities Held to Maturity								
U.S. Treasury and government agencies			\$	377	\$	364	\$	741
Residential mortgage-backed								
Agency		\$ 67		346		14,090		14,503
Non-agency						167		167
Commercial mortgage-backed								
Agency	\$ 172	177		4		54		407
Non-agency						538		538
Asset-backed				114		86		200
Other debt	49	394		854		660		1,957
Total debt securities held to maturity	\$ 221	\$ 638	\$	1,695	\$	15,959	\$	18,513
Fair value	\$ 221	\$ 654	\$	1,751	\$	15,939	\$	18,565
Weighted-average yield, GAAP basis	3.58%	3.92%		3.44%		3.21%		3.26%

Weighted-average yields are based on historical cost with effective yields weighted for the contractual maturity of each security. At December 31, 2017, there were no securities of a single issuer, other than FNMA, that exceeded 10% of Total shareholders' equity. The FNMA investments had a total amortized cost of \$31.0 billion and fair value of \$30.8 billion.

The following table presents the fair value of securities that have been either pledged to or accepted from others to collateralize outstanding borrowings.

Table 51: Fair Value of Securities Pledged and Accepted asCollateral

In millions	Dec	ember 31 2017	De	cember 31 2016
Pledged to others	\$	8,175	\$	9,493
Accepted from others:				
Permitted by contract or custom to sell or repledge	\$	1,152	\$	912
Permitted amount repledged to others	\$	1,097	\$	799

The securities pledged to others include positions held in our portfolio of investment securities, trading securities, and securities accepted as collateral from others that we are permitted by contract or custom to sell or repledge, and were used to secure public and trust deposits, repurchase agreements, and for other purposes.

NOTE 6 FAIR VALUE

<u>Fair Value Measurement</u>

We measure certain financial assets and liabilities at fair value. Fair value is defined as the price that would be received to sell an asset or the price that would be paid to transfer a liability on the measurement date, determined using an exit price in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants. The fair value hierarchy established by GAAP requires us to maximize the use of observable inputs when measuring fair value. The three levels of the fair value hierarchy are:

- Level 1: Fair value is determined using a quoted price in an active market for identical assets or liabilities. Level 1 assets and liabilities may include debt securities, equity securities and listed derivative contracts that are traded in an active exchange market and certain U.S. Treasury securities that are actively traded in over-the-counter markets.
- Level 2: Fair value is estimated using inputs other than quoted prices included within Level 1 that are observable for assets or liabilities, either directly or indirectly. The majority of Level 2 assets and liabilities include debt securities, equity securities and listed derivative contracts with quoted prices that are traded in markets that are not active, and certain debt and equity securities and over-the-counter derivative contracts whose fair value is determined using a pricing model without significant unobservable inputs.
- **Level 3:** Fair value is estimated using unobservable inputs that are significant to the fair value of the assets or liabilities. Level 3 assets and liabilities include financial instruments whose value is determined using pricing models and discounted cash flow methodologies, or similar techniques for which the significant valuation inputs are not observable and the determination of fair value requires significant management judgment or estimation.

We characterize active markets as those where transaction volumes are sufficient to provide objective pricing information, with reasonably narrow bid/ask spreads and where dealer quotes received do not vary widely and are based on current information. Inactive markets are typically characterized by low transaction volumes, price quotations that vary substantially among market participants or are not based on current information, wide bid/ask spreads, a significant increase in implied liquidity risk premiums, yields, or performance indicators for observed transactions or quoted prices compared to historical periods, a significant decline or absence of a market for new issuance, or any combination of the above factors. We also consider nonperformance risks including credit risk as part of our valuation methodology for all assets and liabilities measured at fair value.

Assets and liabilities measured at fair value, by their nature, result in a higher degree of financial statement volatility. Assets and liabilities classified within Level 3 inherently require the use of various assumptions, estimates and judgments when measuring their fair value. As observable market activity is commonly not available to use when estimating the fair value of Level 3 assets and liabilities, we must estimate fair value using various modeling techniques. These techniques include the use of a variety of inputs/ assumptions including credit quality, liquidity, interest rates or other relevant inputs across the entire population of our Level 3 assets and liabilities. Changes in the significant underlying factors or assumptions (either an increase or a decrease) in any of these areas underlying our estimates may result in a significant increase/decrease in the Level 3 fair value measurement of a particular asset and/or liability from period to period.

Any models used to determine fair values or to validate dealer quotes are subject to review and independent testing as part of our model validation and internal control testing processes. Our Model Risk Management Group reviews significant models on at least an annual basis. In addition, the Valuation Committee approves valuation methodologies and reviews the results of independent valuation reviews and processes for assets and liabilities measured at fair value on a recurring basis.

Assets and Liabilities Measured at Fair Value on a Recurring Basis

Securities Available for Sale and Trading Securities

Securities accounted for at fair value include both the available for sale and trading portfolios. We primarily use prices obtained from pricing services, dealer quotes, or recent trades to determine the fair value of securities. The majority of securities were priced by third-party vendors. The third-party vendors use a variety of methods when pricing securities that incorporate relevant market data to arrive at an estimate of what a buyer in the marketplace would pay for a security under current market conditions. We monitor and validate the reliability of vendor pricing on an ongoing basis through pricing methodology reviews, including detailed reviews of the assumptions and inputs used by the vendor to price individual securities, and through price validation testing. Securities not priced by one of our pricing vendors may be valued using a dealer quote, which are also subject to price validation testing. Price validation testing is performed independent of the risk-taking function and involves corroborating the prices received from third-party vendors and dealers with prices from another third party or through other sources, such as internal valuations or sales of similar securities. Security prices are also validated through actual cash settlement upon sale of a security.

Securities are classified within the fair value hierarchy after giving consideration to the activity level in the market for the security type and the observability of the inputs used to determine the fair value. When a quoted price in an active market exists for the identical security, this price is used to determine fair value and the security is classified within Level 1 of the hierarchy. Level 1 securities include U.S. Treasury securities and money-market mutual funds. When a quoted price in an active market for the identical security is not available, fair value is estimated using either an alternative market approach, such as a recent trade or matrix pricing, or an income approach, such as a discounted cash flow pricing model. If the inputs to the valuation are based primarily on market observable information, then the security is classified within Level 2 of the hierarchy. Level 2 securities include agency debt securities, agency residential mortgage-backed securities, agency and non-agency commercial mortgagebacked securities, certain non-agency residential mortgagebacked securities, asset-backed securities collateralized by non-mortgage-related consumer loans, municipal securities, and other debt securities. Level 2 securities are predominantly priced by third parties, either a pricing vendor or dealer.

In certain cases where there is limited activity or less transparency around the inputs to the valuation, securities are classified within Level 3 of the hierarchy. Securities classified as Level 3 consist primarily of non-agency residential mortgage-backed and asset-backed securities collateralized by first- and second-lien residential mortgage loans. Fair value for these securities is primarily estimated using pricing obtained from third-party vendors. In some cases, fair value is estimated using a dealer quote, by reference to prices of securities of a similar vintage and collateral type or by reference to recent sales of similar securities. Market activity for these security types is limited with little price transparency. As a result, these securities are generally valued by the thirdparty vendor using a discounted cash flow approach that incorporates significant unobservable inputs and observable market activity where available. Significant inputs to the valuation include prepayment projections and credit loss assumptions (default rate and loss severity) and discount rates that are deemed representative of current market conditions. Significant increases (decreases) in any of those assumptions in isolation would result in a significantly lower (higher) fair value measurement.

Certain infrequently traded debt securities within Other debt securities available-for-sale and Trading securities are also classified in Level 3 and are included in the Insignificant Level 3 assets, net of liabilities line item in Table 54. The significant unobservable inputs used to estimate the fair value of these securities include an estimate of expected credit losses and a discount for liquidity risk. These inputs are incorporated into the fair value measurement by either increasing the spread over the benchmark curve or by applying a credit and liquidity discount to the par value of the security. Significant increases (decreases) in credit and/or liquidity risk could result in a significantly lower (higher) fair value estimate.

Residential Mortgage Loans Held for Sale

We account for certain residential mortgage loans originated for sale at fair value on a recurring basis. The election of the fair value option aligns the accounting for the residential mortgages with the related hedges. Residential mortgage loans are valued based on quoted market prices, where available, prices for other traded mortgage loans with similar characteristics, and purchase commitments and bid information received from market participants. The prices are adjusted as necessary to include the embedded servicing value in the loans and to take into consideration the specific characteristics of certain loans that are priced based on the pricing of similar loans. These adjustments represent unobservable inputs to the valuation but are not considered significant given the relative insensitivity of the value to changes in these inputs to the fair value of the loans. Accordingly, the majority of residential mortgage loans held for sale are classified as Level 2.

Commercial Mortgage Loans Held for Sale

We account for certain commercial mortgage loans classified as held for sale in whole loan transactions at fair value. We determine the fair value of commercial mortgage loans held for sale based upon discounted cash flows. Fair value is determined using sale valuation assumptions that management believes a market participant would use in pricing the loans.

Valuation assumptions may include observable inputs based on the benchmark interest rate swap curve, whole loan sales and agency sales transactions. The significant unobservable input for commercial mortgage loans held for sale, excluding those to be sold to agencies, is management's assumption of the spread applied to the benchmark rate. The spread over the benchmark curve includes management's assumptions of the impact of credit and liquidity risk. Significant increases (decreases) in the spread applied to the benchmark would result in a significantly lower (higher) asset value. The wide range of the spread over the benchmark curve is due to the varying risk and underlying property characteristics within our portfolio. Based on the significance of the unobservable input we classified this portfolio as Level 3.

For loans to be sold to agencies with servicing retained, the fair value is adjusted for the estimated servicing cash flows, which is an unobservable input. This adjustment is not considered significant given the relative insensitivity of the value to changes in the input to the fair value of the loans. Accordingly, commercial mortgage loans held for sale to agencies are classified as Level 2 as of December 31, 2017.

Loans

Loans accounted for at fair value consist primarily of residential mortgage loans. These loans are generally valued similarly to residential mortgage loans held for sale and are classified as Level 2. However, similar to residential mortgage loans held for sale, if these loans are repurchased and unsalable, they are classified as Level 3. In addition, repurchased VA loans, where only a portion of the principal will be reimbursed, are classified as Level 3. The fair value is determined using a discounted cash flow calculation based on our historical loss rate. We have elected to account for certain home equity lines of credit at fair value. These loans are classified as Level 3. Significant inputs to the valuation of these loans include credit and liquidity discount, cumulative default rate, loss severity and gross discount rate and are deemed representative of current market conditions. Significant increases (decreases) in any of these assumptions would result in a significantly lower (higher) fair value measurement.

Equity Investments

The valuation of direct and indirect private equity investments requires significant management judgment due to the absence of quoted market prices, inherent lack of liquidity and the long-term nature of such investments. Various valuation techniques are used for direct investments, including multiples of adjusted earnings of the entity, independent appraisals, anticipated financing and sale transactions with third parties, or the pricing used to value the entity in a recent financing transaction. A multiple of adjusted earnings calculation is the valuation technique utilized most frequently and is the most significant unobservable input used in such calculation. Significant decreases (increases) in the multiple of earnings could result in a significantly lower (higher) fair value measurement. Direct equity investments are classified as Level 3.

Indirect investments are not redeemable; however, we receive distributions over the life of the partnerships from liquidation of the underlying investments by the investee, which we expect to occur over the next twelve years. We value indirect investments in private equity funds using consensus pricing and the net asset value (NAV) practical expedient as provided in the financial statements that we receive from fund managers. Due to the time lag in our receipt of the financial information and based on a review of investments and valuation techniques applied, adjustments to the managerprovided value are made when available recent portfolio company information or market information indicates a significant change in value from that provided by the manager of the fund. Indirect investments valued using NAV are not classified in the fair value hierarchy.

Mortgage Servicing Rights (MSRs)

MSRs are carried at fair value on a recurring basis. Assumptions incorporated into the MSRs valuation model reflect management's best estimate of factors that a market participant would use in valuing the MSRs. Although sales of MSRs do occur and can offer some market insight, MSRs do not trade in an active, open market with readily observable prices so the precise terms and conditions of sales are not available.

Residential MSRs

As a benchmark for the reasonableness of our residential MSRs fair value, we obtained opinions of value from independent brokers. These brokers provided a range (+/-10 bps) based upon their own discounted cash flow calculations of our portfolio that reflect conditions in the secondary market and any recently executed servicing transactions. We compare our internally-developed residential

MSRs value to the ranges of values received from the brokers. If our residential MSRs fair value falls outside of the brokers' ranges, management will assess whether a valuation adjustment is warranted. For the periods presented, our residential MSRs value did not fall outside of the brokers' ranges. We consider our residential MSRs value to represent a reasonable estimate of fair value.

Due to the nature of the unobservable valuation inputs, residential MSRs are classified as Level 3. The significant unobservable inputs used in the fair value measurement of residential MSRs are constant prepayment rates and spread over the benchmark curve. Significant increases (decreases) in prepayment rates and spread over the benchmark curve would result in lower (higher) fair market value of residential MSRs.

Commercial MSRs

The fair value of commercial MSRs is estimated by using a discounted cash flow model incorporating unobservable inputs for assumptions such as constant prepayment rates, discount rates and other factors. Due to the nature of the unobservable valuation inputs and the limited availability of market pricing, commercial MSRs are classified as Level 3. Significant increases (decreases) in constant prepayment rates and discount rates would result in significantly lower (higher) commercial MSR value determined based on current market conditions and expectations.

Financial Derivatives

Exchange-traded derivatives are valued using quoted market prices and are classified as Level 1. The majority of derivatives that we enter into are executed over-the-counter and are valued using internal models. These derivatives are primarily classified as Level 2 as the readily observable market inputs to these models are validated to external sources such as industry pricing services, or are corroborated through recent trades, dealer quotes, yield curves, implied volatility or other market-related data. Level 2 financial derivatives are primarily estimated using a combination of Eurodollar future prices and observable benchmark interest rate swaps to construct projected discounted cash flows.

Financial derivatives that are priced using significant management judgment or assumptions are classified as Level 3. Unobservable inputs related to interest rate contracts include probability of funding of residential mortgage loan commitments and estimated servicing cash flows of commercial and residential mortgage loan commitments. Probability of default and loss severity are the significant unobservable inputs used in the valuation of risk participation agreements. The fair values of Level 3 assets and liabilities related to these financial derivatives as of December 31, 2017 and 2016 are included in the Insignificant Level 3 assets, net of liabilities line item in Table 54 of this Note 6.

In connection with the sales of portions of our Visa Class B common shares, we entered into swap agreements with the purchasers of the shares to retain any future risk of decreases in the conversion rate of Class B common shares to Class A common shares resulting from increases in the escrow funded by Visa to pay for the costs of resolution of specified litigation

(see Note 19 Legal Proceedings). These swaps also require PNC to make periodic payments based on the market price of the Class A common shares and a fixed rate of interest until the Visa litigation is resolved. An increase in the estimated length of litigation resolution date, a decrease in the estimated conversion rate, or an increase in the estimated growth rate of the Class A share price will each have a negative impact on the fair value of the swaps and vice versa.

The fair values of our derivatives include a credit valuation adjustment to reflect our own and our counterparties' nonperformance risk. Our credit valuation adjustment is computed using new loan pricing and considers externally available bond spreads, in conjunction with internal historical recovery observations.

Other Assets and Liabilities

Other assets held at fair value on a recurring basis primarily include assets related to PNC's deferred compensation and supplemental incentive savings plans and BlackRock Series C Preferred Stock.

The assets related to PNC's deferred compensation and supplemental incentive savings plans primarily consist of a prepaid forward contract referencing an amount of shares of PNC stock, equity mutual funds and fixed income funds, and are valued based on the underlying investments. These assets are valued either by reference to the market price of PNC's stock or by using the quoted market prices for investments other than PNC's stock and are primarily classified in Levels 1 and 2.

We have elected to account for the shares of BlackRock Series C Preferred Stock received in a stock exchange with BlackRock at fair value as these shares economically hedge the BlackRock LTIP liability that is accounted for and reported as a derivative. The fair value of the Series C Preferred Stock is determined using a third-party modeling approach, which includes both observable and unobservable inputs. Due to the significance of unobservable inputs, this security is classified as Level 3. Significant increases (decreases) in the liquidity discount would result in a lower (higher) asset value for the BlackRock Series C Preferred Stock.

All Level 3 other assets and liabilities are included in the Insignificant Level 3 assets, net of liabilities line item in Table 54 in this Note 6.

Other Borrowed Funds

Other borrowed funds primarily consist of U.S. Treasury securities sold short classified as Level 1. Other borrowed funds also includes the related liability for certain repurchased loans for which we have elected the fair value option and are classified as either Level 2 or Level 3, consistent with the level classification of the corresponding loans. All Level 3 amounts are included in the Insignificant Level 3 assets, net of liabilities line item in Table 54 in this Note 6. The following table summarizes our assets and liabilities measured at fair value on a recurring basis, including instruments for which we have elected the fair value option.

		Decembe	r 31, 2017		December 31, 2016					
In millions	Level 1	Level 2	Level 3	Total Fair Value	Level 1	Level 2	Level 3	Total Fair Value		
Assets						1 I				
Residential mortgage loans held for sale		\$ 829	\$ 3	\$ 832		\$ 1,008	\$ 2	\$ 1,010		
Commercial mortgage loans held for sale		723	107	830			1,400	1,400		
Securities available for sale										
U.S. Treasury and government agencies	\$ 14,088	433		14,521	\$12,572	602		13,174		
Residential mortgage-backed										
Agency		25,406		25,406		26,128		26,128		
Non-agency		97	2,661	2,758		112	3,254	3,366		
Commercial mortgage-backed										
Agency		1,904		1,904		2,119		2,119		
Non-agency		2,613		2,613		4,025		4,025		
Asset-backed		5,065	332	5,397		5,565	403	5,968		
Other debt		4,347	87	4,434		4,657	66	4,723		
Total debt securities	14,088	39,865	3,080	57,033	12,572	43,208	3,723	59,503		
Other	524	61		585	541	60		601		
Total securities available for sale	14,612	39,926	3,080	57,618	13,113	43,268	3,723	60,104		
Loans		571	298	869		558	335	893		
Equity investments (a)			1,036	1,265			1,331	1,381		
Residential mortgage servicing rights			1,164	1,164			1,182	1,182		
Commercial mortgage servicing rights			668	668			576	576		
Trading securities (b)	1,243	1,670	2	2,915	1,458	1,169	2	2,629		
Financial derivatives (b) (c)		2,864	10	2,874	10	4,566	40	4,616		
Other assets	278	253	107	638	266	312	239	817		
Total assets	\$ 16,133	\$46,836	\$ 6,475	\$ 69,673	\$ 14,847	\$ 50,881	\$ 8,830	\$74,608		
Liabilities						1 I				
Other borrowed funds	\$ 1,079	\$ 254	\$ 11	\$ 1,344	\$ 799	\$ 161	\$ 10	\$ 970		
Financial derivatives (c) (d)		2,369	487	2,856	1	3,424	414	3,839		
Other liabilities			33	33			9	9		
Total liabilities	\$ 1,079	\$ 2,623	\$ 531	\$ 4,233	\$ 800	\$ 3,585	\$ 433	\$ 4,818		

(a) Certain investments that are measured at fair value using the NAV per share (or its equivalent) practical expedient have not been classified in the fair value hierarchy. The fair value amounts presented in this table are intended to permit reconciliation of the fair value hierarchy to the amounts presented on the Consolidated Balance Sheet.

(b) Included in Other assets on the Consolidated Balance Sheet.

(c) Amounts at December 31, 2017 and December 31, 2016, are presented gross and are not reduced by the impact of legally enforceable master netting agreements that allow us to net positive and negative positions and cash collateral held or placed with the same counterparty. See Note 13 Financial Derivatives for additional information related to derivative offsetting.

(d) Included in Other liabilities on the Consolidated Balance Sheet.

Table 53: Reconciliation of Level 3 Assets and Liabilities

Year Ended December 31, 2017

			ealized / s or losse period (Unrealized gains / losses on assets and liabilities held on
Level 3 Instruments Only In millions	Fair Value Dec. 31, 2016	Include Earning	in con	Included in Other nprehensive income	ırchases	Sales	Is	suances	Se	ettlements	Transf ii Leve	nto	Transfers out of Level 3	Fai Value Dec. 31 2017	e ,	Consolidated Balance Sheet at Dec. 31, 2017 (a) (b)
Assets																
Residential mortgage loans held for sale	\$ 2				\$ 8	\$ (1)			:	\$	10 \$	5 (16) (c)	\$ 3	3	
Commercial mortgage loans held for sale	1,400	\$ 8	1			(5,278) \$	4,885	\$	(258)			(723) (d)	107	7 \$	6 4
Securities available for sale																
Residential mortgage- backed non-agency	3,254	7	7	\$ 137		(33)			(774)				2,66	1	(1)
Commercial mortgage- backed non-agency		1	2			(12)									
Asset-backed	403	1	2	22		(25)			(80)				332	2	
Other debt	66			19	13	(1)			(10)				8	7	
Total securities available for sale	3,723	10)1	178	13	(71)			(864)				3,080	b	(1)
Loans	335				97	(28)			(68)		13	(51) (c)	298	8	(7)
Equity investments	1,331	23	9		214	(565)						(183) (e)	1,030	5	145
Residential mortgage servicing rights	1,182	(8	3)		185			55		(175)				1,164	4	(79)
Commercial mortgage servicing rights	576	4	-6		69			88		(111)				668	8	45
Trading securities	2													2	2	
Financial derivatives	40	3	9		3					(67)			(5)	10	0	67
Other assets	239	2	.3							(155)				107	7	24
Total assets	\$ 8,830	\$ 44	-6	\$ 178	\$ 589	\$ (5,943) \$	5,028	\$	(1,698)	\$	23 \$	6 (978)	\$ 6,475	5 \$	198
Liabilities																
Other borrowed funds	\$ 10						\$	72	\$	(71)				\$ 1	1	
Financial derivatives	414	\$ 29	3			\$ 3				(221)		5	6 (2)	487	7 \$	297
Other liabilities	9	2	.5					173		(174)				33	3	26
Total liabilities	\$ 433	\$ 31	8			\$ 3	\$	245	\$	(466)		\$	6 (2)	\$ 53	1 \$	323
Net gains (losses)		\$ 12	28 (f)												\$	6 (125) (g)

Year Ended December 31, 2016

	·																	
		gains or	ized / unreal losses for t eriod (a)														Ċ	Unrealized gains / losses on assets and lities held on
Level 3 Instruments Only In millions	Fair Value Dec. 31, 2015	Included in Earnings	in comprehe		Purchases	Sale	s Is:	suances	Settle	ements	Transfers into Level 3		0	usfers out of evel 3 (Fair Value Dec. 31, 2016	(Bala	Consolidated ance Sheet at Dec. 31, 2016 (a) (b)
Assets																		
Residential mortgage loans held for sale	\$ 5			5	\$ 10	\$ (3	3)				\$ 10	:	\$	(20)	5	\$ 2		
Commercial mortgage loans held for sale	641	\$ 79				(3,81) \$	4,515	\$	(25)						1,400	\$	(3)
Securities available for sale																		
Residential mortgage- backed non-agency	4,008	75	\$	16		(6))			(785)						3,254		(2)
Asset-backed	482	13		(3)						(89)						403		
Other debt	45	1		28	12	(1	7)			(3)	2			(2)		66		
Total securities available for sale	4,535	89		41	12	(7	7)			(877)	2			(2)		3,723		(2)
Loans	340	8			126	(2	2)			(78)	15	_		(54)		335		2
Equity investments	1,098	148			269	(41	8)				235	(e)		(1)		1,331		127
Residential mortgage servicing rights	1,063	37			188			62		(168)						1,182		39
Commercial mortgage servicing rights	526	45			36			61		(92)						576		45
Trading securities	3									(1)						2		
Financial derivatives	31	115			2					(108)						40		102
Other assets	364	15		(2)						(138)						239		13
Total assets	\$ 8,606	\$ 536	\$	39 3	\$ 643	\$(4,33) \$	4,638	\$ ((1,487)	\$ 262		\$	(77)	9	\$ 8,830	\$	323
Liabilities																		
Other borrowed funds	\$ 12						\$	87	\$	(89)					5	\$ 10		
Financial derivatives	473	\$ 127				\$	4			(190)						414	\$	129
Other liabilities	10	(9)						132		(124)						9		
Total liabilities	\$ 495	\$ 118				\$ 4	4 \$	219	\$	(403)					5	\$ 433	\$	129
Net gains (losses)		\$ 418	(f)														\$	194 (g)

(a) Losses for assets are bracketed while losses for liabilities are not.

(b) The amount of the total gains or losses for the period included in earnings that is attributable to the change in unrealized gains or losses related to those assets and liabilities held at the end of the reporting period.

(c) Transfers out of Level 3 primarily reflect the reclassification of residential mortgage loans held for sale to held for investment and the transfer of residential mortgage loans to OREO.

(d) Reflects a transfer from Level 3 to Level 2 due to an unobservable valuation input that was deemed to be not significant.

(e) Reflects transfers into and out of Level 3 associated with changes in valuation methodology for certain equity investments subject to the Volcker Rule provisions of the Dodd-Frank Act.
 (f) Net gains (losses) realized and unrealized included in earnings related to Level 3 assets and liabilities included amortization and accretion. The amortization and accretion amounts were included in Interest income on the Consolidated Income Statement and the remaining net gains (losses) realized and unrealized were included in Noninterest income on the Consolidated

Income Statement.
 (g) Net unrealized gains (losses) related to assets and liabilities held at the end of the reporting period were included in Noninterest income on the Consolidated Income Statement.

An instrument's categorization within the hierarchy is based on the lowest level of input that is significant to the fair value measurement. Changes from one quarter to the next related to the observability of inputs to a fair value measurement may result in a reclassification (transfer) of assets or liabilities between hierarchy levels. Our policy is to recognize transfers in and transfers out as of the end of the reporting period.

Quantitative information about the significant unobservable inputs within Level 3 recurring assets and liabilities follows.

Table 54: Fair Value Measurements – Recurring Quantitative Information

December 31, 2017

evel 3 Instruments Only Dollars in millions	Fair Value	Valuation Techniques	Unobservable Inputs	Range (Weighted Average)
Commercial mortgage loans held for sale	\$ 10	7 Discounted cash flow	Spread over the benchmark curve (a)	525bps - 1,470bps (1,020bps)
Residential mortgage-backed	2,66		Constant prepayment rate (CPR)	1.0% - 31.6% (10.8%)
non-agency securities		using a discounted cash flow pricing model	Constant default rate (CDR)	0.1% - 18.8% (5.4%)
		1 0	Loss severity	15.0% - 100.0% (51.5%)
			Spread over the benchmark curve (a)	190bps weighted average
Asset-backed securities	33	2 Priced by a third-party vendor	Constant prepayment rate (CPR)	1.0% - 19.0% (7.9%)
		using a discounted cash flow pricing model	Constant default rate (CDR)	2.0% - 11.8% (5.4%)
		1 0	Loss severity	15.0% - 100.0% (68.5%)
			Spread over the benchmark curve (a)	179bps weighted average
Loans	13	3 Consensus pricing (b)	Cumulative default rate	11.0% - 100.0% (85.7%)
			Loss severity	0.0% - 100.0% (20.6%)
			Discount rate	5.5% - 8.0% (5.7%)
	10	4 Discounted cash flow	Loss severity	8.0% weighted average
			Discount rate	4.9% weighted average
	6	1 Consensus pricing (b)	Credit and Liquidity discount	0.0% - 99.0% (61.1%)
Equity investments	1,03	6 Multiple of adjusted earnings	Multiple of earnings	4.5x - 29.7x (8.3x)
Residential mortgage servicing rights	1,16	4 Discounted cash flow	Constant prepayment rate (CPR)	0.0% - 36.7% (10.0%)
			Spread over the benchmark curve (a)	390bps - 1,839bps (830bps)
Commercial mortgage servicing rights	66	8 Discounted cash flow	Constant prepayment rate (CPR)	7.7% - 14.2% (8.5%)
			Discount rate	6.4% - 7.9% (7.8%)
Financial derivatives - Swaps related to sales of certain Visa Class B	(38	0) Discounted cash flow	Estimated conversion factor of Visa Class B shares into Class A shares	163.8% weighted average
common shares			Estimated growth rate of Visa Class A share price	16.0%
			Estimated length of litigation resolution date	Q2 2021
Insignificant Level 3 assets, net of liabilities (c)	5	8		
Total Level 3 assets, net of liabilities (d)	\$ 5,94	4		

December 31, 2016

evel 3 Instruments Only				
Pollars in millions	Fair Value	Valuation Techniques	Unobservable Inputs	Range (Weighted Average)
Commercial mortgage loans held for sale	\$ 1,400	Discounted cash flow	Spread over the benchmark curve (a)	42bps - 1,725bps (362bps)
			Estimated servicing cash flows	0.0% - 7.3% (1.5%)
Residential mortgage-backed	3,254	Priced by a third-party vendor	Constant prepayment rate (CPR)	1.0% - 24.2% (7.2%)
non-agency securities		using a discounted cash flow pricing model	Constant default rate (CDR)	0.0% - 16.7% (5.3%)
			Loss severity	10.0% - 98.5% (53.5%)
			Spread over the benchmark curve (a)	236bps weighted average
Asset-backed securities	403		Constant prepayment rate (CPR)	1.0% - 16.0% (6.4%)
		using a discounted cash flow pricing model	Constant default rate (CDR)	2.0% - 13.9% (6.6%)
			Loss severity	24.2% - 100.0% (77.3%)
			Spread over the benchmark curve (a)	278bps weighted average
Loans	141	Consensus pricing (b)	Cumulative default rate	11.0% - 100.0% (86.9%)
			Loss severity	0.0% - 100.0% (22.9%)
			Discount rate	4.7% - 6.7% (5.1%)
	116	Discounted cash flow	Loss severity	8.0% weighted average
			Discount rate	4.2% weighted average
	78	Consensus pricing (b)	Credit and Liquidity discount	0.0% - 99.0% (57.9%)
Equity investments	1,331	Multiple of adjusted earnings	Multiple of earnings	4.5x - 12.0x (7.8x)
		Consensus pricing (b)	Liquidity discount	0.0% - 40.0%
Residential mortgage servicing rights	1,182	Discounted cash flow	Constant prepayment rate (CPR)	0.0% - 36.0% (9.4%)
			Spread over the benchmark curve (a)	341bps - 1,913bps (850bps)
Commercial mortgage servicing rights	576	Discounted cash flow	Constant prepayment rate (CPR)	7.5% - 43.4% (8.6%)
			Discount rate	3.5% - 7.6% (7.5%)
Other assets – BlackRock Series C Preferred Stock	232	Consensus pricing (b)	Liquidity discount	15.0% - 25.0% (20.0%)
Financial derivatives - BlackRock LTIP	(232)	Consensus pricing (b)	Liquidity discount	15.0% - 25.0% (20.0%)
Financial derivatives - Swaps related to sales of certain Visa Class B	(164)	Discounted cash flow	Estimated conversion factor of Class B shares into Class A shares	164.4% weighted average
common shares			Estimated growth rate of Visa Class A share price	14.0%
			Estimated length of litigation resolution date	Q2 2019
Insignificant Level 3 assets, net of liabilities (c)	80			
otal Level 3 assets, net of liabilities (d)	\$ 8,397			

(a) The assumed yield spread over the benchmark curve for each instrument is generally intended to incorporate non-interest-rate risks, such as credit and liquidity risks.

(b) Consensus pricing refers to fair value estimates that are generally internally developed using information such as dealer quotes or other third-party provided valuations or comparable asset prices.

(c) Represents the aggregate amount of Level 3 assets and liabilities measured at fair value on a recurring basis that are individually and in the aggregate insignificant. The amount includes certain financial derivative assets and liabilities, trading securities, state and municipal and other debt securities, residential mortgage loans held for sale, other assets, other borrowed funds and other liabilities.

(d) Consisted of total Level 3 assets of \$6.4 billion and total Level 3 liabilities of \$.5 billion as of December 31, 2017 and \$8.8 billion and \$.4 billion as of December 31, 2016, respectively.

Financial Assets Accounted for at Fair Value on a Nonrecurring Basis

We may be required to measure certain financial assets at fair value on a nonrecurring basis. These adjustments to fair value usually result from the application of lower of amortized cost or fair value accounting or write-downs of individual assets due to impairment and are included in Table 55 and Table 56.

Nonaccrual Loans

Nonaccrual loans represent the fair value of those loans which have been adjusted due to impairment. The impairment is primarily based on the appraised value of the collateral.

Appraisals are obtained by licensed or certified appraisers at least annually and more recently in certain instances. All thirdparty appraisals are reviewed and any adjustments to the initial appraisal are incorporated into the final issued appraisal report. In instances where an appraisal is not obtained, collateral value is determined consistent with external thirdparty appraisal standards by an internal person independent of the asset manager.

OREO, Foreclosed and Other Assets

The carrying value of OREO and foreclosed assets includes valuation adjustments recorded subsequent to the transfer to OREO and foreclosed assets. These valuation adjustments are based on the fair value less cost to sell of the property. Fair value is based on appraised value or sales price and the appraisal process for OREO and foreclosed properties is the same as described above for nonaccrual loans. The carrying value of other assets includes valuation adjustments that are generally based on the appraised value of the underlying assets.

Long-Lived Assets

Long-lived assets consists of buildings for which valuation adjustments were recorded during the period. A facility classified as held and used is impaired to the extent its carrying value is not recoverable and exceeds fair value. Valuation adjustments on buildings held for sale are based on the fair value of the property less an estimated cost to sell and are recorded subsequent to the transfer of the asset to held for sale status. Fair value is determined either by a third-party appraisal, recent sales offer, changes in market or property conditions, or where we have agreed to sell the building to a third party, the contractual sales price. Impairment on these long-lived assets is recorded in Other noninterest expense on our Consolidated Income Statement.

Table 55: Fair Value Measurements – Nonrecurring

	Fair Value				
Ι	December 31 December				
	2	.017			2016
\$		100) \$		187
		70)		107
		80)		18
\$		250) \$		312
	G	ains	(Losses)	
	2017		2016		2015
					· · ·
\$	(8)	\$	(106)	\$	(44)
	(10)		(16)		(18)
	(168)		(15)		(20)
\$	(186)	\$	(137)	\$	(82)
	\$	\$ \$ G 2017 \$ (10) (168)	December 31 2017 \$ 100 70 80 2017 \$ (8) \$ (10) (168)	December 31 2017 December 31 2017 \$ 100 \$ 70 80 \$ 80 5 250 \$ Gains (Losses 2017 2016 \$ \$ 8 (8) \$ (106) (16) (168) (15)	December 31 2017 December 31 2017 \$ 100 \$ 70 80 80 9 2017 2016 8 (100) \$ (10) (16) (168) (15)

(a) All Level 3 for the periods presented.

Quantitative information about the significant unobservable inputs within Level 3 nonrecurring assets follows.

Table 56: Fair Value Measurements – Nonrecurring Quantitative Information

Level 3 Instruments Only Dollars in millions	Fair	r Value	Valuation Techniques	Unobservable Inputs (a)
December 31, 2017				
Assets				
Nonaccrual loans	\$	100	Fair value of property or collateral	Appraised value/sales price
OREO, foreclosed and other assets		70	Fair value of property or collateral	Appraised value/sales price
Long-lived assets		47	Fair value of property or collateral	Appraised value/sales price
		20	Fair value of property or collateral	Broker opinion
		13	Fair value of property or collateral	Projected income/required improvement costs
Total assets	\$	250		
December 31, 2016				
Assets				
Nonaccrual loans	\$	187	Fair value of property or collateral	Appraised value/sales price
OREO, foreclosed and other assets		107	Fair value of property or collateral	Appraised value/sales price
Long-lived assets		18	Fair value of property or collateral	Appraised value/sales price
Total assets	\$	312		

(a) Additional quantitative information for the unobservable inputs was not meaningful for the periods presented.

Financial Instruments Accounted for under Fair Value Option

We elect the fair value option to account for certain financial instruments. For more information on these financial instruments for which the fair value option election has been made, please refer to the Fair Value Measurement section of this Note 6. These financial instruments are initially measured at fair value. Gains and losses from initial measurement and any changes in fair value are subsequently recognized in earnings.

Interest income related to changes in the fair values of these financial instruments is recorded on the Consolidated Income Statement in Other interest income, except for certain Residential mortgage loans, for which income is also recorded in Loan interest income. Changes in value on the prepaid forward contract included in Other Assets is reported in Noninterest expense and interest expense on the Other borrowed funds is reported in Borrowed funds interest expense.

Fair values and aggregate unpaid principal balances of items for which we elected the fair value option follow.

Table 57: Fair Value Option – Fair Value and Principal Balances

In millions		Fair Value		Aggregate Unpaid Principal Balance		Difference
December 31, 2017						
Assets						
Residential mortgage loans held for sale						
Performing loans	\$	822	\$	796	\$	26
Accruing loans 90 days or more past due		3		3		
Nonaccrual loans		7		8		(1)
Total	\$	832	\$	807	\$	25
Commercial mortgage loans held for sale (a)						
Performing loans	\$	828	\$	842	\$	(14)
Nonaccrual loans		2		3		(1)
Total	\$	830	\$	845	\$	(15)
Residential mortgage loans						
Performing loans	\$	251	\$	280	\$	(29)
Accruing loans 90 days or more past due		421		431		(10)
Nonaccrual loans		197		317		(120)
Total	\$	869	\$	1,028	\$	(159)
Other assets	\$	216	\$	212	\$	4
Liabilities						
Other borrowed funds	\$	84	\$	85	\$	(1)
December 31, 2016						
Assets						
Residential mortgage loans held for sale						
Performing loans	\$	1,000	\$	988	\$	12
Accruing loans 90 days or more past due		4		4		
Nonaccrual loans		6		6		
Total	\$	1,010	\$	998	\$	12
Commercial mortgage loans held for sale (a)						
Performing loans	\$	1,395	\$	1,412	\$	(17)
Nonaccrual loans		5		9		(4)
Total	\$	1,400	\$	1,421	\$	(21)
Residential mortgage loans						
Performing loans	\$	247	\$	289	\$	(42)
Accruing loans 90 days or more past due		427		428		(1)
Nonaccrual loans		219		346		(127)
Total	\$	893	\$	1,063	\$	(170)
Other assets	\$	293	\$	288		5
Liabilities						
Other borrowed funds	\$	81	\$	82	\$	(1)

(a) There were no accruing loans 90 days or more past due within this category at December 31, 2017 or December 31, 2016.

The changes in fair value for items for which we elected the fair value option are as follows.

Table 58: Fair Value Option – Changes in Fair Value (a)

Year ended December 31	 Gains (Losses)						
In millions	 2017		2016		2015		
Assets							
Residential mortgage loans held for sale	\$ 121	\$	152	\$	152		
Commercial mortgage loans held for sale	\$ 87	\$	76	\$	96		
Residential mortgage loans	\$ 27	\$	30	\$	43		
Other assets	\$ 60	\$	50	\$	(8)		
Liabilities							
Other liabilities	\$ (26)			\$	4		

(a) The impact on earnings of offsetting hedged items or hedging instruments is not reflected in these amounts.

Additional Fair Value Information Related to Financial Instruments Not Recorded at Fair Value

This section presents fair value information for all other financial instruments that are not recorded on the consolidated balance sheet at fair value. We used the following methods and assumptions to estimate the fair value amounts for these financial instruments.

Cash and Due from Banks and Interest-earning Deposits with Banks

Due to their short-term nature, the carrying amounts for Cash and Due from Banks and Interest-earning Deposits with Banks reported on our Consolidated Balance Sheet approximate fair value.

Securities Held to Maturity

We primarily use prices obtained from pricing services, dealer quotes or recent trades to determine the fair value of securities. Refer to the Fair Value Measurement section of this Note 6 for additional information relating to our pricing processes and procedures.

Net Loans

Fair values are estimated based on the discounted value of expected net cash flows incorporating assumptions about prepayment rates, net credit losses and servicing fees. Nonaccrual loans are valued at their estimated recovery value. Loans are presented net of the ALLL.

Other Assets

Other assets includes accrued interest receivable, cash collateral, federal funds sold and resale agreements, equity investments carried at cost, certain loans held for sale, and FHLB and FRB stock. The aggregate carrying value of our FHLB and FRB stock was \$1.8 billion at December 31, 2017 and \$1.7 billion at December 31, 2016, which approximated fair value at each date.

Deposits

For deposits with no defined maturity, such as noninterestbearing and interest-bearing demand and interest-bearing money market and savings deposits, carrying values approximate fair values. For time deposits, fair values are estimated by discounting contractual cash flows using current market rates for instruments with similar maturities.

Borrowed Funds

For short-term borrowings, including Federal funds purchased, commercial paper, repurchase agreements, and certain other short-term borrowings and payables, carrying values approximated fair values. For long-term borrowed funds, quoted market prices are used, when available, to estimate fair value. When quoted market prices are not available, fair value is estimated based on current market interest rates and credit spreads for debt with similar terms and maturities.

Unfunded Loan Commitments and Letters of Credit

The fair value of unfunded loan commitments and letters of credit is determined from a market participant's view including the impact of changes in interest rates and credit. We establish a liability on these facilities related to the creditworthiness of our counterparty.

Other Liabilities

Other liabilities includes interest-bearing cash collateral held related to derivatives and other accrued liabilities. Due to its short term nature, the carrying value of Other liabilities reported on our Consolidated Balance Sheet approximates fair value. The carrying amounts and estimated fair values, as well as the level within the fair value hierarchy, of these financial instruments as of December 31, 2017 and December 31, 2016 are as follows.

Table 59: Additional Fair Value Information Related to Other Financial Instruments

	 Carrying	Fair Value							
In millions	 Amount		Total		Level 1		Level 2		Level 3
December 31, 2017									
Assets									
Cash and due from banks	\$ 5,249	\$	5,249	\$	5,249				
Interest-earning deposits with banks	28,595		28,595			\$	28,595		
Securities held to maturity	18,513		18,565		765		17,658	\$	142
Net loans (excludes leases)	209,044		211,175						211,175
Other assets	6,078		6,736				5,949		787
Total assets	\$ 267,479	\$	270,320	\$	6,014	\$	52,202	\$	212,104
Liabilities									
Deposits	\$ 265,053	\$	264,854			\$	264,854		
Borrowed funds	57,744		58,503				56,853	\$	1,650
Unfunded loan commitments and letters of credit	297		297						297
Other liabilities	399		399				399		
Total liabilities	\$ 323,493	\$	324,053			\$	322,106	\$	1,947
December 31, 2016									
Assets									
Cash and due from banks	\$ 4,879	\$	4,879	\$	4,879				
Interest-earning deposits with banks	25,711		25,711			\$	25,711		
Securities held to maturity	15,843		15,866		540		15,208	\$	118
Net loans (excludes leases)	199,766		201,863						201,863
Other assets	4,793		5,243				4,666		577
Total assets	\$ 250,992	\$	253,562	\$	5,419	\$	45,585	\$	202,558
Liabilities									
Deposits	\$ 257,164	\$	257,038			\$	257,038		
Borrowed funds	51,736		52,322				50,941	\$	1,381
Unfunded loan commitments and letters of credit	301		301						301
Other liabilities	417		417				417		
Total liabilities	\$ 309,618	\$	310,078			\$	308,396	\$	1,682

The aggregate fair value in Table 59 represents only a portion of the total market value of our total assets and liabilities as, in accordance with the guidance related to fair values about financial instruments, we exclude the following:

- financial instruments recorded at fair value on a recurring basis (as they are disclosed in Table 52),
- investments accounted for under the equity method,
- real and personal property,
- lease financing,
- loan customer relationships,
- deposit customer intangibles,
- mortgage servicing rights,
- retail branch networks,
- fee-based businesses, such as asset management and brokerage, and
- trademarks and brand names.

NOTE 7 GOODWILL AND MORTGAGE SERVICING RIGHTS

Assets and liabilities of acquired entities are recorded at estimated fair value as of the acquisition date.

<u>Goodwill</u>

Allocations of Goodwill by business segment during 2017, 2016 and 2015 follow:

Table 60: Goodwill by Business Segment (a)

In millions	Retail Banking	Corporate & Institutional Banking	Asset Management Group	Total
December 31, 2015	\$ 5,795	\$ 3,244	\$ 64	\$ 9,103
December 31, 2016	\$ 5,795	\$ 3,244	\$ 64	\$ 9,103
December 31, 2017 (b)	\$ 5,795	\$ 3,314	\$ 64	\$ 9,173

(a) The BlackRock business segment did not have any allocated goodwill during 2017, 2016 and 2015.

(b) Corporate & Institutional Banking's goodwill balance as of December 31, 2017 includes the impact of \$70 million from business acquisitions in 2017.

We conduct a goodwill impairment test on our reporting units at least annually, in the fourth quarter, or more frequently if events occur or circumstances have changed significantly from the annual test date. The fair value of our reporting units with goodwill is determined by using discounted cash flow and market comparability methodologies. Based on the results of our analysis, there were no impairment charges related to goodwill in 2017, 2016 or 2015.

Mortgage Servicing Rights

We recognize the right to service mortgage loans for others when we recognize it as an intangible asset and the servicing income we receive is more than adequate compensation. MSRs are purchased or originated when loans are sold with servicing retained. MSRs totaled \$1.8 billion at both December 31, 2017 and December 31, 2016, respectively, and consisted of loan servicing contracts for commercial and residential mortgages measured at fair value.

Commercial Mortgage Servicing Rights

We recognize gains/(losses) on changes in the fair value of commercial MSRs. Commercial MSRs are subject to changes in value from actual or expected prepayment of the underlying loans and defaults as well as market driven changes in interest rates. We manage this risk by economically hedging the fair value of commercial MSRs with securities and derivative instruments which are expected to increase (or decrease) in value when the value of commercial MSRs declines (or increases). The fair value of commercial MSRs is estimated by using a discounted cash flow model incorporating inputs for assumptions as to constant prepayment rates, discount rates and other factors determined based on current market conditions and expectations.

Changes in the commercial MSRs follow:

Table 61: Commercial Mortgage Servicing Rights

In millions		2017		2016	2015
January 1	\$	576	\$	526	\$ 506
Additions:					
From loans sold with servicing retained		88		61	63
Purchases		69		36	55
Changes in fair value due to:					
Time and payoffs (a)		(111)		(92)	(89)
Other (b)		46		45	(9)
December 31	\$	668	\$	576	\$ 526
Related unpaid principal balance at December 31	\$ 1	62,182	\$ 1	43,139	\$ 145,823
Servicing advances at December 31	\$	217	\$	265	\$ 251

(a) Represents decrease in MSR value due to passage of time, including the impact from both regularly scheduled loan principal payments and loans that were paid down or paid off during the period.

(b) Represents MSR value changes resulting primarily from market-driven changes in interest rates.

Residential Mortgage Servicing Rights

Residential MSRs are subject to changes in value from actual or expected prepayment of the underlying loans and defaults as well as market driven changes in interest rates. We manage this risk by economically hedging the fair value of residential MSRs with securities and derivative instruments which are expected to increase (or decrease) in value when the value of residential MSRs declines (or increases).

The fair value of residential MSRs is estimated by using a discounted cash flow valuation model which calculates the present value of estimated future net servicing cash flows, taking into consideration actual and expected mortgage loan prepayment rates, discount rates, servicing costs, and other factors which are determined based on current market conditions.

Changes in the residential MSRs follow:

Table 62: Residential Mortgage Servicing Rights

In millions		2017		2016		2015
January 1	\$	1,182	\$	1,063	\$	845
Additions:						
From loans sold with servicing retained		55		62		78
Purchases		185		188		316
Changes in fair value due to:						
Time and payoffs (a)		(175)		(168)		(178)
Other (b)		(83)		37		2
December 31	\$	1,164	\$	1,182	\$	1,063
Unpaid principal balance of loans serviced for others at December 31	\$1	26,769	\$1	25,381	\$1	23,466
Servicing advances at December 31	\$	201	\$	302	\$	411

(a) Represents decrease in MSR value due to passage of time, including the impact from both regularly scheduled loan principal payments and loans that were paid down or paid off during the period.

(b) Represents MSR value changes resulting from market-driven changes in interest rates and changes in model assumptions.

Sensitivity Analysis

The fair value of commercial and residential MSRs and significant inputs to the valuation models as of December 31, 2017 are shown in Tables 63 and 64. The expected and actual rates of mortgage loan prepayments are significant factors driving the fair value. Management uses both internal proprietary models and a third-party model to estimate future commercial mortgage loan prepayments and a third-party model to estimate future residential mortgage loan prepayments. These models have been refined based on current market conditions and management judgment. Future interest rates are another important factor in the valuation of MSRs. Management utilizes market implied forward interest rates to estimate the future direction of mortgage and discount rates. The forward rates utilized are derived from the current yield curve for U.S. dollar interest rate swaps and are consistent with pricing of capital markets instruments. Changes in the shape and slope of the forward curve in future periods may result in volatility in the fair value estimate.

A sensitivity analysis of the hypothetical effect on the fair value of MSRs to adverse changes in key assumptions is presented in Tables 63 and 64. These sensitivities do not include the impact of the related hedging activities. Changes in fair value generally cannot be extrapolated because the relationship of the change in the assumption to the change in fair value may not be linear. Also, the effect of a variation in a particular assumption on the fair value of the MSRs is calculated independently without changing any other assumption. In reality, changes in one factor may result in changes in another (for example, changes in mortgage interest rates, which drive changes in prepayment rate estimates, could result in changes in the interest rate spread), which could either magnify or counteract the sensitivities. The following tables set forth the fair value of commercial and residential MSRs and the sensitivity analysis of the hypothetical effect on the fair value of MSRs to immediate adverse changes of 10% and 20% in those assumptions:

Table 63: Commercial Mortgage Loan Servicing Rights – KeyValuation Assumptions

Dollars in millions	Dec	cember 31 2017	Dec	ember 31 2016	
Fair value	\$	668	\$	576	
Weighted-average life (years)		4.4		4.6	
Weighted-average constant prepayment rate		8.51%		8.61%	
Decline in fair value from 10% adverse change	\$	12	\$	11	
Decline in fair value from 20% adverse change	\$	23	\$	21	
Effective discount rate		7.81%		7.52%	
Decline in fair value from 10% adverse change	\$	18	\$	16	
Decline in fair value from 20% adverse change	\$	36	\$	31	

Table 64: Residential Mortgage Loan Servicing Rights – Key Valuation Assumptions

Dollars in millions	De	cember 31 2017	Ι		
Fair value	\$	1,164	\$	1,182	
Weighted-average life (years)		6.4		6.8	
Weighted-average constant prepayment rate		10.04	%	9.41	%
Decline in fair value from 10% adverse change	\$	44	\$	45	
Decline in fair value from 20% adverse change	\$	85	\$	86	
Weighted-average option adjusted spread		830	bps	850	bps
Decline in fair value from 10% adverse change	\$	35	\$	37	
Decline in fair value from 20% adverse change	\$	67	\$	72	

Fees from mortgage loan servicing, which includes contractually specified servicing fees, late fees and ancillary fees were \$.5 billion for each of 2017, 2016 and 2015. We also generate servicing fees from fee-based activities provided to others for which we do not have an associated servicing asset. Fees from commercial and residential MSRs are reported on our Consolidated Income Statement in the line items Corporate services and Residential mortgage, respectively.

Note 8 Premises, Equipment and Leasehold Improvements

Premises, equipment and leasehold improvements, stated at cost less accumulated depreciation and amortization, were as follows:

Table 65: Premises, Equipment and LeaseholdImprovements

In millions	Dec	cember 31 2017	December 31 2016			
Premises, equipment and leasehold improvements	\$	10,939	\$	10,410		
Accumulated depreciation and amortization		(5,503)		(4,888)		
Net book value	\$	5,436	\$	5,522		

The following table includes depreciation expense on premises, equipment and leasehold improvements, as well as amortization expense, excluding intangible assets, primarily for capitalized internally developed software.

Table 66: Depreciation and Amortization Expense

Year ended December 31 In millions	 2017	2016	2015
Depreciation	\$ 743	\$ 683	\$ 643
Amortization	56	46	40
Total depreciation and amortization	\$ 799	\$ 729	\$ 683

We lease certain facilities and equipment under agreements expiring at various dates through the year 2081. We account for these as operating leases. Rental expense on such leases was as follows:

Table 67: Lease Rental Expense

Year ended December 31 In millions	 2017	2016	2015
Lease rental expense	\$ 431	\$ 442	\$ 460

Required minimum annual rentals that we owe on noncancelable leases having initial or remaining terms in excess of one year totaled \$2.6 billion at December 31, 2017.

Future minimum annual rentals are as follows:

Table 68: Minimum Annual Lease Rentals

In millions	
2018	\$ 382
2019	\$ 343
2020	\$ 302
2021	\$ 260
2022	\$ 217
2023 and thereafter	\$ 1,051

NOTE 9 TIME DEPOSITS

Total time deposits of \$17.3 billion at December 31, 2017 have future contractual maturities, including related purchase accounting adjustments, as follows:

Table 69: Time Deposits

In billions	
2018	\$ 12.1
2019	\$ 1.1
2020	\$.9
2021	\$ 1.0
2022	\$.9
2023 and thereafter	\$ 1.3

NOTE 10 BORROWED FUNDS

The following shows the carrying value of total borrowed funds of \$59.1 billion at December 31, 2017 (including adjustments related to purchase accounting, accounting hedges and unamortized original issuance discounts) by remaining contractual maturity:

Table 70: Borrowed Funds

In billions	
2018	\$ 16.0
2019	\$ 12.3
2020	\$ 13.8
2021	\$ 3.7
2022	\$ 4.9
2023 and thereafter	\$ 8.4

The following table presents the contractual rates and maturity dates of our FHLB borrowings, senior debt and subordinated debt as of December 31, 2017 and the carrying values as of December 31, 2017 and 2016.

	Stated Rate	Maturity	Carrying	g Value	
Dollars in millions	2017	2017	2017		2016
Parent Company					
Senior debt	1.64%-6.70%	2018-2027	\$ 5,203	\$	3,960
Subordinated debt	3.90%-6.88%	2019-2024	1,440		2,038
Junior subordinated debt	2.05%	2028	205		205
Subtotal			6,848		6,203
Bank					
FHLB (a)	zero-6.35%	2018-2030	21,037		17,549
Senior debt	1.05%-3.30%	2018-2043	22,859		19,012
Subordinated debt	2.70%-6.88%	2018-2025	3,555		5,766
Subtotal			47,451		42,327
Total			\$ 54,299	\$	48,530

(a) FHLB borrowings are generally collateralized by residential mortgage loans, other mortgage-related loans and commercial mortgage-backed securities.

In Table 71, the carrying values for Parent Company senior and subordinated debt include basis adjustments of \$38 million and \$23 million, respectively, whereas Bank senior and subordinated debt include basis adjustments of \$(187) million and \$2 million, respectively, related to fair value accounting hedges as of December 31, 2017.

Also included in borrowed funds are repurchase agreements. Additionally, certain borrowings are reported at fair value. Refer to Note 6 Fair Value for more information on those borrowings.

Junior Subordinated Debentures

PNC Capital Trust C, a wholly-owned finance subsidiary of The PNC Financial Services Group, Inc., owns junior subordinated debentures issued by PNC with a carrying value of \$205 million. In June 1998, PNC Capital Trust C issued \$200 million of trust preferred securities which bear interest at an annual rate of 3 month LIBOR plus 57 basis points. The trust preferred securities are currently redeemable by PNC Capital Trust C at par. In accordance with GAAP, the financial statements of the Trust are not included in our consolidated financial statements. The obligations of The PNC Financial Services Group, Inc., as the parent of the Trust, when taken collectively, are the equivalent of a full and unconditional guarantee of the obligations of the Trust under the terms of the trust preferred securities. Such guarantee is subordinate in right of payment in the same manner as other junior subordinated debt. There are certain restrictions on our overall ability to obtain funds from our subsidiaries. For additional disclosure on these funding restrictions, see Note 18 Regulatory Matters.

We are subject to certain restrictions, including restrictions on dividend payments, in connection with the outstanding junior subordinated debentures. Generally, if there is (i) an event of default under the debenture, (ii) we elect to defer interest on the debenture, (iii) we exercise our right to defer payments on the related trust preferred securities, or (iv) there is a default under our guarantee of such payment obligations, subject to certain limited exceptions, we would be unable during the period of such default or deferral to make payments on our debt securities that rank equal or junior to the debentures as well as to make payments on our equity securities, including dividend payments.

NOTE 11 EMPLOYEE BENEFIT PLANS

Pension and Postretirement Plans

We have a noncontributory, qualified defined benefit pension plan covering eligible employees. Benefits are determined using a cash balance formula where earnings credits are a percentage of eligible compensation. Earnings credit percentages for those employees who were plan participants on December 31, 2009 are frozen at the level earned to that point. Earnings credits for all employees who became participants on or after January 1, 2010 are a flat 3% of eligible compensation. All plan participants earn interest on their cash balances based on 30-year Treasury securities rates with those who were participants at December 31, 2009 earning a minimum rate. New participants on or after January 1, 2010 are not subject to the minimum rate. Any pension contributions to the plan are based on an actuarially determined amount necessary to fund total benefits payable to plan participants. We made a voluntary contribution of \$200 million in September 2017 to the qualified pension plan. Assets of the qualified pension plan are held in a separate Trust (Trust).

We also maintain nonqualified supplemental retirement plans for certain employees and provide certain health care and life insurance benefits for qualifying retired employees (postretirement benefits) through various plans. PNC reserves the right to terminate or make changes to these plans at any time. The nonqualified pension plan is unfunded. Contributions from PNC and, in the case of the postretirement benefit plans, participant contributions cover all benefits paid under the nonqualified pension plan and postretirement benefit plans. The postretirement plan provides benefits to certain retirees that are at least actuarially equivalent to those provided by Medicare Part D and accordingly, we receive a federal subsidy as shown in Table 72. In November of 2015, we established a voluntary employee beneficiary association (VEBA) to partially fund postretirement medical and life insurance benefit obligations.

We use a measurement date of December 31 for plan assets and benefit obligations. A reconciliation of the changes in the projected benefit obligation for qualified pension, nonqualified pension and postretirement benefit plans as well as the change in plan assets for the qualified pension plan follows.

		Qualified Pension			Nonqualified Pension				Postretirement Benefits			
December 31 (Measurement Date) - in millions		2017		2016		2017		2016	2017		2016	
Accumulated benefit obligation at end of year	\$	4,726	\$	4,495	\$	280	\$	282				
Projected benefit obligation at beginning of year	\$	4,547	\$	4,397	\$	289	\$	298	\$ 373	\$	368	
Service cost		160		102		3		3	5		6	
Interest cost		179		186		10		12	14		15	
Amendments		17							2			
Actuarial (gains)/losses and changes in assumptions		172		131		8		7	(18)		6	
Participant contributions									3		4	
Federal Medicare subsidy on benefits paid									1		1	
Benefits paid		(286)		(269)		(24)		(31)	(25)		(27)	
Projected benefit obligation at end of year	\$	4,789	\$	4,547	\$	286	\$	289	\$ 355	\$	373	
Fair value of plan assets at beginning of year	\$	4,617	\$	4,316					\$ 208	\$	200	
Actual return on plan assets		722		320					9		(7)	
Employer contribution		200		250	\$	24	\$	31	34	\$	37	
Participant contributions									3		4	
Federal Medicare subsidy on benefits paid									1		1	
Benefits paid		(286)		(269)		(24)		(31)	(25)		(27)	
Fair value of plan assets at end of year	\$	5,253	\$	4,617					\$ 230	\$	208	
Funded status	\$	464	\$	70	\$	(286)	\$	(289)	\$ (125)	\$	(165)	
Amounts recognized on the consolidated balance sheet												
Noncurrent asset	\$	464	\$	70								
Current liability					\$	(28)	\$	(27)	\$ (2)	\$	(2)	
Noncurrent liability						(258)		(262)	(123)		(163)	
Net amount recognized on the consolidated balance sheet	\$	464	\$	70	\$	(286)	\$	(289)	\$ (125)	\$	(165)	
Amounts recognized in Accumulated other comprehensive income (AOCI) consist of:												
Prior service cost (credit)	\$	13	\$	(7)					\$ 1	\$	(3)	
Net actuarial loss		534		841	\$	77	\$	74	18		40	
Amount recognized in AOCI	\$	547	\$	834	\$	77	\$	74	\$ 19	\$	37	

Table 72: Reconciliation of Changes in Projected Benefit Obligation and Change in Plan Assets
At December 31, 2017, the fair value of the qualified pension plan assets was more than both the accumulated benefit obligation and the projected benefit obligation.

PNC Pension Plan Assets

The long-term investment strategy for pension plan assets in our qualified pension plan (the Plan) is to:

- Meet present and future benefit obligations to all participants and beneficiaries,
- Cover reasonable expenses incurred to provide such benefits, including expenses incurred in the administration of the Trust and the Plan,
- Provide sufficient liquidity to meet benefit and expense payment requirements on a timely basis, and
- Provide a total return that, over the long term, maximizes the ratio of trust assets to liabilities by maximizing investment return, at an appropriate level of risk.

The Plan's named investment fiduciary has the ability to make short to intermediate term asset allocation shifts under the dynamic asset allocation strategy based on factors such as the Plan's funded status, the named investment fiduciary's view of return on equities relative to long term expectations, the named investment fiduciary's view on the direction of interest rates and credit spreads, and other relevant financial or economic factors which would be expected to impact the ability of the Trust to meet its obligation to participants and beneficiaries. Accordingly, the allowable asset allocation ranges have been updated to incorporate the flexibility required by the dynamic allocation policy.

The asset strategy allocations for the Trust at the end of 2017 and 2016, and the target allocation range at the end of 2017, by asset category, are as follows.

Table 73: Asset Strategy Allocations

	_		ntage of
	Target		ssets by
	Allocation		ategy at
	Range	Dece	mber 31
PNC Pension Plan		2017	2016
Asset Category			
Domestic Equity	20 - 40%	30%	28%
International Equity	10 - 25%	24%	21%
Private Equity	0 - 15%	9%	8%
Total Equity	40 - 70%	63%	57%
Domestic Fixed Income	10-40%	16%	16%
High Yield Fixed Income	0 - 25%	10%	12%
Total Fixed Income	10-65%	26%	28%
Real estate	0-15%	5%	5%
Other	0 - 10%	6%	10%
Total	100%	100%	100%

The asset category represents the allocation of Plan assets in accordance with the investment objective of each of the Plan's investment managers. Certain domestic equity investment managers utilize derivatives and fixed income securities as described in their Investment Management Agreements to achieve their investment objective under the Investment Policy Statement. Other investment managers may invest in eligible securities outside of their assigned asset category to meet their investment objectives. The actual percentage of the fair value of total Plan assets held as of December 31, 2017 for equity securities, fixed income securities, real estate and all other assets are 70%, 17%, 5% and 8%, respectively.

We believe that, over the long term, asset allocation is the single greatest determinant of risk. Asset allocation will deviate from the target percentages due to market movement, cash flows, investment manager performance and implementation of shifts under the dynamic asset allocation policy. Material deviations from the asset allocation targets can alter the expected return and risk of the Trust. On the other hand, frequent rebalancing of the asset allocation targets may result in significant transaction costs, which can impair the Trust's ability to meet its investment objective. Accordingly, the Trust portfolio is periodically rebalanced to maintain asset allocation within the target ranges described above.

In addition to being diversified across asset classes, the Trust is diversified within each asset class. Secondary diversification provides a reasonable basis for the expectation that no single security or class of securities will have a disproportionate impact on the total risk and return of the Trust.

Where investment strategies permit the use of derivatives and/ or currency management, language is incorporated in the managers' guidelines to define allowable and prohibited transactions and/or strategies. Derivatives are typically employed by investment managers to modify risk/return characteristics of their portfolio(s), implement asset allocation changes in a cost effective manner, or reduce transaction costs. Under the managers' investment guidelines, derivatives may not be used solely for speculation or leverage. Derivatives are to be used only in circumstances where they offer the most efficient economic means of improving the risk/reward profile of the portfolio.

Fair Value Measurements

As further described in Note 6 Fair Value, GAAP establishes the framework for measuring fair value, including a hierarchy used to classify the inputs used in measuring fair value.

A description of the valuation methodologies used for assets measured at fair value at both December 31, 2017 and December 31, 2016 follows:

- Money market funds are valued at the net asset value of the shares held by the pension plan at year end.
- U.S. government and agency securities, corporate debt and common stock are valued at the closing price reported on the active market on which the individual securities are traded. If quoted market prices are not available for the specific security, then fair values are estimated by using pricing models or quoted prices of securities with similar characteristics. Such securities are generally classified within Level 2 of the valuation hierarchy but may be a Level 3 depending

on the level of liquidity and activity in the market for the security.

- Other investments held by the pension plan include derivative financial instruments, which are recorded at estimated fair value as determined by third-party appraisals and pricing models, and group annuity contracts, which are measured at fair value by discounting the related cash flows based on current yields of similar instruments with comparable durations considering the credit-worthiness of the issuer. Also included in other investments is preferred stock valued at the closing price reported on an active market on which the securities are traded.
- Investments measured at net asset value include collective trust fund investments and limited partnerships. Collective trust fund investments are valued based upon the units of such collective trust fund held by the Plan at year end multiplied by the respective unit value. The unit value of the collective trust fund is based upon significant observable inputs, although it is not based upon quoted marked prices in an active market. The underlying investments of the collective trust funds consist primarily of equity

securities, debt obligations, short-term investments, and other marketable securities. Due to the nature of these securities, there are no unfunded commitments or redemption restrictions. Limited partnerships are valued by investment managers based on recent financial information used to estimate fair value. The unit value of limited partnerships is based upon significant observable inputs, although it is not based upon quoted marked prices in an active market. In accordance with ASC 820-10, collective trust fund investments and limited partnerships are not classified in the fair value hierarchy.

These methods may result in fair value calculations that may not be indicative of net realizable values or future fair values. Furthermore, while the pension plan believes its valuation methods are appropriate and consistent with other market participants, the use of different methodologies or assumptions to determine the fair value of certain financial instruments could result in a different fair value measurement at the reporting date.

The following table sets forth by level, within the fair value hierarchy, the Plan's assets at fair value as of December 31, 2017 and 2016.

	 Fair Value Measurements Using:									
December 31, 2017 - in millions	 Fair Value]	Quoted Prices in Active Markets For Identical Assets (Level 1)		Significant Other Observable Inputs (Level 2)	U	Significant nobservable Inputs (Level 3)			
Interest bearing cash	\$ 11	\$	10	\$	1					
Money market funds	339		339							
U.S. government and agency securities	338		233		105					
Corporate debt	583				578	\$	5			
Common stock	804		791		13					
Mutual Funds	271				271					
Other	77		1		69		7			
Investments measured at net asset value (a)	2,830									
Total	\$ 5,253	\$	1,374	\$	1,037	\$	12			
December 31, 2016 - in millions										
Interest bearing cash	\$ 45	\$	35	\$	10					
Money market funds	404		404							
U.S. government and agency securities	285		158		127					
Corporate debt	580				572	\$	8			
Common stock	652		645		7					
Other	60				60					
Investments measured at net asset value (a)	2,591									
Total	\$ 4,617	\$	1,242	\$	776	\$	8			

Table 74: Pension Plan Assets - Fair Value Hierarchy

(a) In accordance with ASC 820-10, collective trust fund investments and limited partnerships are measured at fair value using the NAV per share (or its equivalent) practical expedient and have not been classified in the fair value hierarchy. The fair value amounts presented in this table are intended to permit reconciliation of the fair value hierarchy to the amounts presented on the Consolidated Balance Sheet.

The following table provides information regarding our estimated future cash flows related to our various plans.

Table 75: Estimated Cash Flows

		Pensio	n Plan	IS	Postretirement Benefits				
In millions	Qual	ified Pension		Nonqualified Pension	Gross PNC Benefit Payments	Reduction in PNC Benefit Payments Due to Medicare Part D Subsidy			
Estimated 2018 employer contributions			\$	28	\$ 26				
Estimated future benefit payments									
2018	\$	295	\$	28	\$ 26				
2019	\$	303	\$	25	\$ 27				
2020	\$	315	\$	24	\$ 27				
2021	\$	318	\$	23	\$ 26				
2022	\$	318	\$	22	\$ 26				
2023-2027	\$	1,573	\$	100	\$ 123	\$ 2			

The qualified pension plan contributions are deposited into the Trust, and the qualified pension plan benefit payments are paid from the Trust. We do not expect to be required to make a contribution to the qualified plan for 2018 based on the funding calculations under the Pension Protection Act of 2006. For the other plans, total contributions and the benefit payments are the same and represent expected benefit amounts, which are paid from general assets. Postretirement benefits are net of participant contributions. Estimated cash flows reflect the partial funding of postretirement medical and life insurance obligations in the VEBA.

The components of net periodic benefit cost/(income) and other amounts recognized in Other comprehensive income (OCI) were as follows.

Table 76: Components of Net Periodic Benefit Cost

	Qualified Pension Plan				Nonqualified Pension Plan				Postretirement Benefits					
Year ended December 31 – in millions	2017		2016	2015		2017		2016		015	2017	2016		2015
Net periodic cost consists of:														
Service cost (a)	\$ 160	\$	102 \$	\$ 107	\$	3	\$	3	\$	3	\$ 5	e	5\$	5
Interest cost	179)	186	177	1	10		12		11	14	15	5	15
Expected return on plan assets	(285	i)	(281)	(297	')						(5) (6	j)	
Amortization of prior service cost/(credit)	(3)	(7)	(9))						(1) (1)	(1)
Amortization of actuarial (gain)/loss	43	;	45	31		4		5		7				
Net periodic cost (benefit)	94	Ļ	45	ç)	17		20		21	13	14	ŀ	19
Other changes in plan assets and benefit obligations recognized in Other comprehensive income:														
Current year prior service cost/(credit)	17	'									2			
Amortization of prior service (cost)/credit	3	;	7	ç)						1	1		1
Current year actuarial loss/(gain)	(264)	91	152	2	7		7	((10)	(22)) 17	'	(9)
Amortization of actuarial gain/(loss)	(43	5)	(45)	(31)	(4)		(5)		(7)				
Total recognized in OCI	(287	')	53	130)	3		2	((17)	(19) 18	3	(8)
Total amounts recognized in net periodic cost and OCI	\$ (193	5) \$	98 5	\$ 139) \$	20	\$	22	\$	4	\$ (6)\$ 32	2 \$	11

(a) 2017 Qualified Pension service cost includes \$57 million of additional service cost due to the special, one-time cash balance credit announced at the end of 2017.

The weighted-average assumptions used (as of the beginning of each year) to determine the net periodic costs shown in Table 76 were as follows.

Table 77: Net Period Costs - Assumptions

	Net Periodic Cost Determination					
Year ended December 31	2017	2016	2015			
Discount rate						
Qualified pension	4.00%	4.25%	3.95%			
Nonqualified pension	3.80%	3.95%	3.65%			
Postretirement benefits	3.90%	4.15%	3.80%			
Rate of compensation increase (average)	3.50%	3.50%	4.00%			
Assumed health care cost trend rate						
Initial trend	7.00%	7.25%	7.50%			
Ultimate trend	5.00%	5.00%	5.00%			
Year ultimate trend reached	2025	2025	2025			
Expected long-term return on plan assets	6.38%	6.75%	6.75%			

The weighted-average assumptions used (as of the end of each year) to determine year end obligations for pension and postretirement benefits were as follows.

Table 78: Other Pension Assumptions

Year ended December 31	2017	2016
Discount rate		
Qualified pension	3.60%	4.00%
Nonqualified pension	3.45%	3.80%
Postretirement benefits	3.55%	3.90%
Rate of compensation increase (average)	3.50%	3.50%
Assumed health care cost trend rate		
Initial trend	6.75%	7.00%
Ultimate trend	5.00%	5.00%
Year ultimate trend reached	2025	2025

The discount rates are determined independently for each plan by comparing the expected future benefits that will be paid under each plan with yields available on high quality corporate bonds of similar duration. For this analysis, 10% of bonds with the highest yields and 40% with the lowest yields were removed from the bond universe.

The expected return on plan assets is a long-term assumption established by considering historical and anticipated returns of the asset classes invested in by the pension plan and the allocation strategy currently in place among those classes. For purposes of setting and reviewing this assumption, "longterm" refers to the period over which the plan's projected benefit obligations will be disbursed. We review this assumption at each measurement date and adjust it if warranted. Our selection process references certain historical data and the current environment, but primarily utilizes qualitative judgment regarding future return expectations. We also examine the assumption used by other companies with similar pension investment strategies. Taking into account all of these factors, the expected long-term return on plan assets for determining net periodic pension cost for 2017 was 6.375%. We are reducing our expected long-term return on assets to 6.000% for determining pension cost for 2018. This decision was made after considering the views of both internal and external capital market advisors, particularly with regard

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to the effects of the recent economic environment on longterm prospective equity and fixed income returns.

PNC's net periodic benefit cost recognized for the plans is sensitive to the discount rate and expected long-term return on plan assets. With all other assumptions held constant, a .5% decline in the discount rate would have resulted in an immaterial increase in net periodic benefit cost for the qualified pension plan in 2017, and to be recognized in 2018. For the nonqualified pension plan and postretirement benefits, a .5% decline in the discount rate would also have resulted in an immaterial increase in net periodic benefit cost.

The health care cost trend rate assumptions shown in Tables 77 and 78 relate only to the postretirement benefit plans. The effect of a one-percentage-point increase or decrease in assumed health care cost trend rates would be insignificant.

Defined Contribution Plans

The PNC Incentive Savings Plan (ISP) is a qualified defined contribution plan that covers all of our eligible employees. Effective January 1, 2015, newly-hired full time employees and part-time employees who became eligible to participate in the ISP after that date are automatically enrolled in the ISP with a deferral rate equal to 4% of eligible compensation in the absence of an affirmative election otherwise. Employee benefits expense related to the ISP was \$125 million in 2017, \$122 million in 2016 and \$126 million in 2015, representing cash contributed to the ISP by PNC.

The ISP is a 401(k) Plan and includes an employee stock ownership (ESOP) feature. Employee contributions are invested in a number of investment options, including pre mixed portfolios and individual core funds, available under the ISP at the direction of the employee.

NOTE 12 STOCK BASED COMPENSATION PLANS

We have long-term incentive award plans (Incentive Plans) that provide for the granting of incentive stock options, nonqualified stock options, stock appreciation rights, incentive shares/performance units, restricted shares, restricted share units, other share-based awards and dollar-denominated awards to executives and, other than incentive stock options, to non-employee directors. Certain Incentive Plan awards may be paid in stock, cash or a combination of stock and cash. We typically grant a substantial portion of our stock-based compensation awards during the first quarter of each year.

Total compensation expense recognized related to all sharebased payment arrangements was approximately \$.2 billion during each of 2017, 2016 and 2015. The total tax benefit recognized related to compensation expense on all share-based payment arrangements was approximately \$.1 billion during each of 2017, 2016 and 2015. At December 31, 2017, there was \$.2 billion of unamortized share-based compensation expense related to nonvested equity compensation arrangements granted under the Incentive Plans. This unamortized cost is expected to be recognized as expense over a period of no longer than 5 years.

Nonqualified Stock Options

We did not grant any stock options in 2017, 2016 or 2015. Generally, options become exercisable in installments after the grant date. No option can be exercised after 10 years from its grant date. Payment of the option exercise price may be in cash or by surrendering shares of common stock at market value on the exercise date. The exercise price may also be paid by using previously owned shares.

The following table represents the stock option activity for 2017.

Table 79: Stock Options - Rollforward (a)

Year ended December 31, 2017 In millions except weighted- average data	Shares	v	Veighted- Average Exercise Price	Weighted- Average Remaining Contractual Life	A	Aggregate Intrinsic Value
Outstanding, January 1	3	\$	55.16			
Exercised	(2)	\$	53.22			
Outstanding, December 31	1	\$	58.02	2.6 years	\$	112
Vested and exercisable, December 31	1	\$	58.02	2.6 years	\$	112

(a) Cancelled stock options during 2017 were insignificant.

To determine stock-based compensation expense, the grant date fair value is applied to the options granted with a reduction for estimated forfeitures. We recognize compensation expense for stock options on a straight-line basis over the specified vesting period.

At December 31, 2016 and 2015, options for 3 million and 5 million shares of common stock were exercisable at a weighted-average price of \$55.16 and \$55.42, respectively. The total intrinsic value of options exercised was approximately \$.1 billion during 2017, 2016 and 2015.

Cash received from option exercises under all Incentive Plans was approximately \$.1 billion for 2017, 2016 and 2015. The tax benefit realized from option exercises under all Incentive Plans was insignificant for 2017, 2016 and 2015.

Shares of common stock available during the next year for the granting of options and other awards under the Incentive Plans were approximately 36 million shares at December 31, 2017. Total shares of PNC common stock authorized for future issuance under all equity compensation plans totaled approximately 37 million shares at December 31, 2017.

During 2017, we issued approximately 2 million common shares from treasury stock in connection with stock option exercise activity. As with past exercise activity, we currently intend to utilize primarily treasury stock for any future stock option exercises.

Incentive/Performance Unit Awards and Restricted Share/ Restricted Share Unit Awards

The fair value of nonvested incentive/performance unit awards and restricted share/restricted share unit awards is initially determined based on prices not less than the market value of our common stock on the date of grant with a reduction for estimated forfeitures. The value of certain incentive/ performance unit awards is subsequently remeasured based on the achievement of one or more financial and other performance goals. Additionally, certain incentive/ performance unit awards require subsequent adjustment to their current market value due to certain discretionary risk review triggers.

The weighted-average grant date fair value of incentive/ performance unit awards and restricted share/restricted share unit awards granted in 2017, 2016 and 2015 was \$122.10, \$78.37 and \$91.57 per share, respectively. The total intrinsic value of incentive/performance unit and restricted share/ restricted share unit awards vested during 2017, 2016 and 2015 was approximately \$.2 billion, \$.1 billion and \$.2 billion, respectively. We recognize compensation expense for such awards ratably over the corresponding vesting and/or performance periods for each type of program.

Table 80: Nonvested Incentive/Performance Unit Awardsand Restricted Share/Restricted Share Unit AwardsRollforward (a)

Shares in millions	Nonvested Incentive/ Performance Units Shares	Weighted- Average Grant Date Fair Value	Nonvested Restricted Share/ Restricted Share Units	G	Weighted- Average Frant Date Fair Value
December 31, 2016	2	\$ 81.42	3	\$	83.27
Granted (b)	1	\$ 122.13	1	\$	122.09
Vested/Released (b)	(1)	\$ 78.69	(1)	\$	80.69
December 31, 2017	2	\$ 94.29	3	\$	95.64

(a) Forfeited awards during 2017 were insignificant.

(b) Includes adjustments for achieving specific performance goals for Incentive/ Performance Unit Share Awards granted in prior periods.

In Table 80, the units and related weighted-average grant date fair value of the incentive/performance unit share awards exclude the effect of dividends on the underlying shares, as those dividends will be paid in cash if and when the underlying shares are issued to the participants.

BlackRock Long-term Incentive Plans (LTIP)

BlackRock adopted the 2002 LTIP program to help attract and retain qualified professionals. At that time, we agreed to transfer up to four million shares of BlackRock common stock to fund a portion of the 2002 LTIP program and future LTIP programs approved by BlackRock's Board of Directors.

In 2009, our obligation to deliver any remaining BlackRock common shares was replaced with an obligation to deliver shares of BlackRock's Series C Preferred Stock held by us.

In 2017, we transferred .52 million shares of BlackRock Series C Preferred Stock to BlackRock in connection with our obligation. At December 31, 2017, we held approximately .25 million shares of BlackRock Series C Preferred Stock which were available to fund our obligations. See Note 23 Subsequent Events for information on our January 31, 2018 transfer of 0.1 million shares of the Series C Preferred Stock to BlackRock to satisfy a portion of our LTIP obligation.

NOTE 13 FINANCIAL DERIVATIVES

We use derivative financial instruments primarily to help manage exposure to interest rate, market and credit risk and reduce the effects that changes in interest rates may have on net income, the fair value of assets and liabilities, and cash flows. We also enter into derivatives with customers to facilitate their risk management activities. Derivatives represent contracts between parties that usually require little or no initial net investment and result in one party delivering cash or another type of asset to the other party based on a notional amount and an underlying as specified in the contract.

Derivative transactions are often measured in terms of notional amount, but this amount is generally not exchanged and it is not recorded on the balance sheet. The notional amount is the basis to which the underlying is applied to determine required payments under the derivative contract. The underlying is a referenced interest rate (commonly LIBOR), security price, credit spread or other index. Residential and commercial real estate loan commitments associated with loans to be sold also qualify as derivative instruments.

The following table presents the notional amounts and gross fair values of all derivative assets and liabilities held by us.

Table 81: Total Gross Derivatives

	D	ecei	mber 31, 2017	December 31, 2016					
In millions	Notional / Contract Amount		Asset Fair Value (a)	Liabil F Value	air	Notional / Contract Amount		Asset Fair Value (a)	Liability Fai Value (b
Derivatives used for hedging under GAAP									·
Interest rate contracts (c):									
Fair value hedges (d)	\$ 34,059	\$	114	\$	94 \$	34,010	\$	551	\$ 214
Cash flow hedges (d)	23,875		60		6	20,831		313	71
Foreign exchange contracts:									
Net investment hedges	1,060				11	945		25	
Total derivatives designated for hedging	\$ 58,994	\$	174	\$ 1	11 \$	55,786	\$	889	\$ 285
Derivatives not used for hedging under GAAP									
Derivatives used for mortgage banking activities (e):									
Interest rate contracts:									
Swaps (d)	\$ 48,335	\$	162	\$	42 \$	49,071	\$	783	\$ 505
Futures (f)	47,494					36,264			
Mortgage-backed commitments	8,999		19		9	13,317		96	56
Other	2,530		11		2	31,907		28	2
Subtotal	107,358		192		53	130,559		907	565
Derivatives used for customer-related activities:									·
Interest rate contracts:									
Swaps (d)	194,042		2,079	1,7	72	173,777		2,373	2,214
Futures (f)	3,453					4,053			
Mortgage-backed commitments	2,228		2		2	2,955		10	8
Other	17,775		75		36	16,203		55	53
Subtotal	217,498		2,156	1,8	10	196,988		2,438	2,275
Foreign exchange contracts and other	27,330		349	3	32	21,889		342	309
Subtotal	244,828		2,505	2,1	12	218,877		2,780	2,584
Derivatives used for other risk management activities:									·
Foreign exchange contracts and other (g)	7,445		3	5	50	5,581		40	405
Total derivatives not designated for hedging	\$ 359,631	\$	2,700	\$ 2,7	15 \$	355,017	\$	3,727	\$ 3,554
Total gross derivatives	\$ 418,625	\$	2,874	\$ 2,8	56 \$	410,803	\$	4,616	\$ 3,839
Less: Impact of legally enforceable master netting agreements (d)			(1,054)	(1,0	54)			(2,460)	(2,460
Less: Cash collateral received/paid (d)			(636)	(7	53)			(657)	(484
Total derivatives		\$	1,184	\$ 1,0	39		\$	1,499	\$ 895
(a) Included in Other assets on our Consolidated Balance Sheet.									

(a) Included in Other assets on our Consolidated Balance Sheet.

(b) Included in Other liabilities on our Consolidated Balance Sheet.

(c) Represents primarily swaps.

(d) In the first quarter of 2017, PNC changed its accounting treatment for variation margin related to certain derivative instruments cleared through a central clearing house. Previously, variation margin was treated as collateral subject to offsetting. As a result of changes made by the clearing house to its rules governing such instruments with its counterparties, effective for the first quarter of 2017, variation margin is treated as a settlement payment on the derivative instrument. The impact at December 31, 2017 was a reduction of gross derivative assets and gross derivative liabilities by \$.8 billion and \$.7 billion, respectively. The accounting change had no impact on the net fair value of the derivative assets and liabilities that otherwise would have been reported on our Consolidated Balance Sheet. See Table 85 for more information.

(e) Includes both residential and commercial mortgage banking activities.

(f) Futures contracts settle in cash daily and, therefore, no derivative asset or derivative liability is recognized on our Consolidated Balance Sheet.

(g) Includes our obligation to fund a portion of certain BlackRock LTIP programs and the swaps entered into in connection with sales of a portion of Visa Class B common shares.

All derivatives are carried on our Consolidated Balance Sheet at fair value. Derivative balances are presented on the Consolidated Balance Sheet on a net basis taking into consideration the effects of legally enforceable master netting agreements and, when appropriate, any related cash collateral exchanged with counterparties. Further discussion regarding the offsetting rights associated with these legally enforceable master netting agreements is included in the Offsetting, Counterparty Credit Risk, and Contingent Features section below. Any nonperformance risk, including credit risk, is included in the determination of the estimated net fair value of the derivatives.

Further discussion on how derivatives are accounted for is included in Note 1 Accounting Policies.

Derivatives Designated As Hedging Instruments under GAAP

Certain derivatives used to manage interest rate and foreign exchange risk as part of our asset and liability risk management activities are designated as accounting hedges under GAAP. Derivatives hedging the risks associated with changes in the fair value of assets or liabilities are considered fair value hedges, derivatives hedging the variability of expected future cash flows are considered cash flow hedges, and derivatives hedging a net investment in a foreign subsidiary are considered net investment hedges. Designating derivatives as accounting hedges allows for gains and losses on those derivatives, to the extent effective, to be recognized in the income statement in the same period the hedged items affect earnings.

Fair Value Hedges

We enter into receive-fixed, pay-variable interest rate swaps to hedge changes in the fair value of outstanding fixed-rate debt caused by fluctuations in market interest rates. We also enter into pay-fixed, receive-variable interest rate swaps and zerocoupon swaps to hedge changes in the fair value of fixed rate and zero-coupon investment securities caused by fluctuations in market interest rates. For these hedge relationships, we use statistical regression analysis to assess hedge effectiveness at both the inception of the hedge relationship and on an ongoing basis. There were no components of derivative gains or losses excluded from the assessment of hedge effectiveness for all periods presented.

Further detail regarding gains (losses) on fair value hedge derivatives and related hedged items is presented in the following table:

Table 82: Gains (Losses) on Derivatives and Related Hedged Items – Fair Value Hedges (a)

			Year ended					
			December	r 31, 2017	December	31, 2016	December	31, 2015
In millions	Hedged Items	Location	Gain (Loss) on Derivatives Recognized in Income	Gain (Loss) on Related Hedged Items Recognized in Income	Gain (Loss) on Derivatives Recognized in Income	Gain (Loss) on Related Hedged Items Recognized in Income	Gain (Loss) on Derivatives Recognized in Income	Gain (Loss) on Related Hedged Items Recognized in Income
Interest rate contracts	U.S. Treasury and Government Agencies and Other Debt Securities	Investment securities (interest income)	\$ 48	\$ (50)	\$ 142	\$ (141)		
Interest rate contracts	Subordinated Debt and Bank Notes and Senior Debt	Borrowed funds (interest expense)	(284)	268	(332)	299	\$ (108) \$	67
Total (a)			\$ (236)	\$ 218	\$ (190)	\$ 158	\$ (108) \$	67

(a) The difference between the gains (losses) recognized in income on derivatives and their related hedged items represents the ineffective portion of the change in value of our fair value hedge derivatives.

Cash Flow Hedges

We enter into receive-fixed, pay-variable interest rate swaps to modify the interest rate characteristics of designated commercial loans from variable to fixed in order to reduce the impact of changes in future cash flows due to market interest rate changes. For these cash flow hedges, any changes in the fair value of the derivatives that are effective in offsetting changes in the forecasted interest cash flows are recorded in Accumulated other comprehensive income and are reclassified to interest income in conjunction with the recognition of interest received on the loans. We use statistical regression analysis to assess the effectiveness of these hedge relationships at both the inception of the hedge relationship and on an ongoing basis. We also periodically enter into forward purchase and sale contracts to hedge the variability of the consideration that will be paid or received related to the purchase or sale of investment securities. The forecasted purchase or sale is consummated upon gross settlement of the forward contract itself. As a result, hedge ineffectiveness, if any, is typically minimal. Gains and losses on these forward contracts are recorded in Accumulated other comprehensive income and are recognized in earnings when the hedged cash flows affect earnings. In the 12 months that follow December 31, 2017, we expect to reclassify net derivative gains of \$102 million pretax, or \$81 million after-tax, from Accumulated other comprehensive income to interest income for both cash flow hedge strategies. This reclassified amount could differ from amounts actually recognized due to changes in interest rates, hedge dedesignations, and the addition of other hedges subsequent to December 31, 2017. As of December 31, 2017, the maximum length of time over which forecasted transactions are hedged is seven years. During 2017, 2016 and 2015, there were no gains or losses from cash flow hedge derivatives reclassified to earnings because it became probable that the original forecasted transaction would not occur.

There were no components of derivative gains or losses excluded from the assessment of hedge effectiveness related to either cash flow hedge strategy for all periods presented.

Further detail regarding gains (losses) on derivatives and related cash flows is presented in the following table:

Table 83: Gains (Losses) on Derivatives and Related CashFlows - Cash Flow Hedges (a) (b)

	Year ended December 31						
In millions		2017	2016	2015			
Gains (losses) on derivatives recognized in OCI – (effective portion)	\$	(90) \$	100 \$	415			
Less: Gains (losses) reclassified from accumulated OCI into income – (effective portion)							
Interest income	\$	180 \$	253 \$	293			
Noninterest income		17		(5)			
Total gains (losses) reclassified from accumulated OCI into income –		107 0		• • • •			
(effective portion)	\$	197 \$	253 \$	288			
Net unrealized gains (losses) on cash flow hedge derivatives	\$	(287) \$	(153) \$	127			

(a) All cash flow hedge derivatives are interest rate contracts as of December 31, 2017, December 31, 2016 and December 31, 2015.

(b) The amount of cash flow hedge ineffectiveness recognized in income was not significant for the periods presented.

Net Investment Hedges

We enter into foreign currency forward contracts to hedge non-U.S. Dollar net investments in foreign subsidiaries against adverse changes in foreign exchange rates. We assess whether the hedging relationship is highly effective in achieving offsetting changes in the value of the hedge and hedged item by qualitatively verifying that the critical terms of the hedge and hedged item match at the inception of the hedging relationship and on an ongoing basis. Net investment hedge derivatives are classified as foreign exchange contracts. There were no components of derivative gains or losses excluded from the assessment of the hedge effectiveness for all periods presented. For 2017, 2016 and 2015, there was no net investment hedge ineffectiveness. Net gains (losses) on net investment hedge derivatives recognized in OCI were \$(81) million in 2017, \$186 million in 2016 and \$60 million in 2015.

Derivatives Not Designated As Hedging Instruments under GAAP

Residential mortgage loans that will be sold in the secondary market, and the related loan commitments, which are considered derivatives, are accounted for at fair value. Changes in the fair value of the loans and commitments due to interest rate risk are hedged with forward contracts to sell mortgage-backed securities, as well as U.S. Treasury and Eurodollar futures and options. Gains and losses on the loans and commitments held for sale and the derivatives used to economically hedge them are included in Residential mortgage noninterest income on the Consolidated Income Statement.

Residential mortgage servicing rights are accounted for at fair value with changes in fair value influenced primarily by changes in interest rates. Derivatives used to hedge the fair value of residential mortgage servicing rights include interest rate futures, swaps, options, and forward contracts to purchase mortgage-backed securities. Gains and losses on residential mortgage servicing rights and the related derivatives used for hedging are included in Residential mortgage noninterest income.

Commercial mortgage loans held for sale and the related loan commitments, which are considered derivatives, are accounted for at fair value. Derivatives used to economically hedge these loans and commitments from changes in fair value due to interest rate risk and credit risk include forward loan sale contracts, interest rate swaps, and credit default swaps. Gains and losses on the commitments, loans and derivatives are included in Other noninterest income. Derivatives used to economically hedge the change in value of commercial mortgage servicing rights include interest rate futures, swaps and options. Gains or losses on these derivatives are included in Corporate services noninterest income.

The residential and commercial mortgage loan commitments associated with loans to be sold which are accounted for as derivatives are valued based on the estimated fair value of the underlying loan and the probability that the loan will fund within the terms of the commitment. The fair value also takes into account the fair value of the embedded servicing right.

We offer derivatives to our customers in connection with their risk management needs. These derivatives primarily consist of interest rate swaps, interest rate caps and floors, swaptions and foreign exchange contracts. We primarily manage our market risk exposure from customer transactions by entering into a variety of hedging transactions with third-party dealers. Gains and losses on customer-related derivatives are included in Other noninterest income. Included in the customer, mortgage banking risk management, and other risk management portfolios are written interest-rate caps and floors entered into with customers and for risk management purposes. We receive an upfront premium from the counterparty and are obligated to make payments to the counterparty if the underlying market interest rate rises above or falls below a certain level designated in the contract. Our ultimate obligation under written options is based on future market conditions. We have entered into risk participation agreements to share some of the credit exposure with other counterparties related to interest rate derivative contracts or to take on credit exposure to generate revenue. The notional amount of risk participation agreements sold was \$3.6 billion at December 31, 2017 and \$4.3 billion at December 31, 2016. Assuming all underlying third party customers referenced in the swap contracts defaulted, the exposure from these agreements would be \$.1 billion at both December 31, 2017 and December 31, 2016 based on the fair value of the underlying swaps.

Further detail regarding the gains (losses) on derivatives not designated in hedging relationships is presented in the following table:

	 Year ended December 31						
In millions	 2017	2016	2015				
Derivatives used for mortgage banking activities:							
Interest rate contracts (a)	\$ 75 \$	152 \$	220				
Derivatives used for customer-related activities:							
Interest rate contracts	95	78	71				
Foreign exchange contracts and other	146	84	78				
Gains (losses) from customer-related activities (b)	241	162	149				
Derivatives used for other risk management activities:							
Foreign exchange contracts and other (c)	(525)	(7)	282				
Gains (losses) from other risk management activities (b)	(525)	(7)	282				
Total gains (losses) from derivatives not designated as hedging instruments	\$ (209) \$	307 \$	651				

(a) Included in Residential mortgage, Corporate services and Other noninterest income.

(b) Included in Other noninterest income.

(c) Includes BlackRock LTIP funding obligation and the swaps entered into in connection with sales of a portion of Visa Class B common shares.

Offsetting, Counterparty Credit Risk, and Contingent Features

We generally utilize a net presentation on the Consolidated Balance Sheet for those derivative financial instruments entered into with counterparties under legally enforceable master netting agreements. The master netting agreements reduce credit risk by permitting the closeout netting of all outstanding derivative instruments under the master netting agreement with the same counterparty upon the occurrence of an event of default. The master netting agreement also may require the exchange of cash or marketable securities to collateralize either party's net position. In certain cases, minimum thresholds must be exceeded before any collateral is exchanged. Collateral is typically exchanged daily on unsettled positions based on the net fair value of the positions with the counterparty as of the preceding day. Collateral representing initial margin, which is based on potential future exposure, is also required to be pledged by us in relation to derivative instruments with central clearing house counterparties. Any cash collateral exchanged with counterparties under these master netting agreements is also netted, when appropriate, against the applicable derivative fair values on the Consolidated Balance Sheet. However, the fair value of any securities held or pledged is not included in the net presentation on the balance sheet. In order for derivative instruments under a master netting agreement to be eligible for closeout netting under GAAP, we must conduct sufficient legal review to conclude with a well-founded basis that the offsetting rights included in the master netting agreement would be legally enforceable upon an event of default, including upon an event of bankruptcy, insolvency, or a similar proceeding of the counterparty. Enforceability is evidenced by a legal opinion that supports, with sufficient confidence, the enforceability of the master netting agreement in such circumstances.

Table 85 shows the impact legally enforceable master netting agreements had on our derivative assets and derivative liabilities as of December 31, 2017 and December 31, 2016. The table includes cash collateral held or pledged under legally enforceable master netting agreements. The table also includes the fair value of any securities collateral held or pledged under legally enforceable master netting agreements. Cash and securities collateral amounts are included in the table only to the extent of the related net derivative fair values.

Table 85: Derivative Assets and Liabilities Offsetting

		 Amor Offset o Consolidated E	on th					Securities Collateral Held /	
December 31, 2017 In millions	Gross Fair Value	 Fair Value ffset Amount		Cash Collateral	Net Fair Value		((Pledged) Under Master Netting Agreements	Net Amounts
Derivative assets									
Interest rate contracts:									
Over-the-counter cleared (a)	\$ 827	\$ 251	\$	567	\$ 9				\$ 9
Over-the-counter	1,695	668		67	960		\$	32	928
Foreign exchange and other contracts	352	135		2	215				215
Total derivative assets	\$ 2,874	\$ 1,054	\$	636	\$ 1,184	(b)	\$	32	\$ 1,152
Derivative liabilities									
Interest rate contracts:									
Over-the-counter cleared (a)	\$ 260	\$ 251			\$ 9				\$ 9
Over-the-counter	1,703	662	\$	669	372				372
Foreign exchange and other contracts	893	141		94	658				658
Total derivative liabilities	\$ 2,856	\$ 1,054	\$	763	\$ 1,039	(c)			\$ 1,039
December 31, 2016 In millions									
Derivative assets									
Interest rate contracts:									
Over-the-counter cleared (a)	\$ 1,498	\$ 940	\$	480	\$ 78				\$ 78
Exchange-traded	9				9				9
Over-the-counter	2,702	1,358		164	1,180		\$	62	1,118
Foreign exchange and other contracts	407	162		13	232				232
Total derivative assets	\$ 4,616	\$ 2,460	\$	657	\$ 1,499	(b)	\$	62	\$ 1,437
Derivative liabilities									
Interest rate contracts:									
Over-the-counter cleared (a)	\$ 1,060	\$ 940	\$	25	\$ 95				\$ 95
Exchange-traded	1				1				1
Over-the-counter	2,064	1,395		431	238				238
Foreign exchange and other contracts	714	125		28	561				561
Total derivative liabilities	\$ 3,839	\$ 2,460	\$	484	\$ 895	(c)			\$ 895

(a) Reflects our first quarter 2017 change in accounting treatment for variation margin for certain derivative instruments cleared through a central clearing house. The accounting change reduced the asset and liability gross fair values with corresponding reductions to the fair value and cash collateral offsets, resulting in no changes to the net fair value amounts.

(b) Represents the net amount of derivative assets included in Other assets on our Consolidated Balance Sheet.

(c) Represents the net amount of derivative liabilities included in Other liabilities on our Consolidated Balance Sheet.

Table 85 includes over-the-counter (OTC) derivatives, OTC cleared derivatives, and exchange-traded derivatives. OTC derivatives represent contracts executed bilaterally with counterparties that are not settled through an organized exchange or cleared through a central clearing house. The majority of OTC derivatives are governed by the International Swaps and Derivatives Association (ISDA) documentation or other legally enforceable industry standard master netting agreements. OTC cleared derivatives represent contracts executed bilaterally with counterparties in the OTC market that are novated to a central clearing house who then becomes our counterparty. Exchange-traded derivatives represent standardized futures and options contracts executed directly on an organized exchange.

In addition to using master netting agreements and other collateral agreements to reduce credit risk associated with derivative instruments, we also seek to manage credit risk by evaluating credit ratings of counterparties and by using internal credit analysis, limits, and monitoring procedures.

At December 31, 2017, we held cash, U.S. government securities and mortgage-backed securities totaling \$.9 billion under master netting agreements and other collateral agreements to collateralize net derivative assets due from counterparties, and we pledged cash totaling \$1.5 billion under these agreements to collateralize net derivative liabilities owed to counterparties and to meet initial margin requirements. These totals may differ from the amounts presented in the preceding offsetting table because these totals may include collateral exchanged under an agreement that does not qualify as a master netting agreement or because the total amount of collateral held or pledged exceeds the net derivative fair values with the counterparty as of the balance sheet date due to timing or other factors, such as initial margin. To the extent not netted against the derivative fair values under a master netting agreement, the receivable for cash pledged is included in Other assets and the obligation for cash held is included in Other liabilities on our Consolidated Balance Sheet. Securities held from counterparties are not recognized on our balance sheet. Likewise securities we have pledged to counterparties remain on our balance sheet. Certain derivative agreements contain various credit-risk related contingent provisions, such as those that require our debt to maintain a specified credit rating from one or more of the major credit rating agencies. If our debt ratings were to fall below such specified ratings, the counterparties to the derivative instruments could request immediate payment or demand immediate and ongoing full collateralization on derivative instruments in net liability positions. The aggregate fair value of all derivative instruments with credit-risk-related contingent features that were in a net liability position on December 31, 2017 was \$1.6 billion for which we had posted collateral of \$.8 billion in the normal course of business. The maximum additional amount of collateral we would have been required to post if the credit-risk-related contingent features underlying these agreements had been triggered on December 31, 2017 would be \$.8 billion.

NOTE 14 EARNINGS PER SHARE

Table 86: Basic and Diluted Earnings Per Common Share

In millions, except per share data	2017	 2016	2015
Basic			
Net income	\$ 5,388	\$ 3,985	\$ 4,143
Less:			
Net income attributable to noncontrolling interests	50	82	37
Preferred stock dividends	236	209	220
Preferred discount accretion and redemptions	26	6	5
Net income attributable to common shares	 5,076	3,688	3,881
Less: Dividends and undistributed earnings allocated to participating securities	23	26	17
Net income attributable to basic common shares	\$ 5,053	\$ 3,662	\$ 3,864
Basic weighted-average common shares outstanding	 481	494	514
Basic earnings per common share (a)	\$ 10.49	\$ 7.42	\$ 7.52
Diluted			
Net income attributable to basic common shares	\$ 5,053	\$ 3,662	\$ 3,864
Less: Impact of BlackRock earnings per share dilution	16	12	18
Net income attributable to diluted common shares	\$ 5,037	\$ 3,650	\$ 3,846
Basic weighted-average common shares outstanding	 481	494	514
Dilutive potential common shares	5	6	7
Diluted weighted-average common shares outstanding	486	500	521
Diluted earnings per common share (a)	\$ 10.36	\$ 7.30	\$ 7.39
Diluted earnings per common share (a)	\$ 10.36	\$ 7.30	\$ 7.3

(a) Basic and diluted earnings per share under the two-class method are determined on net income reported on the income statement less earnings allocated to nonvested restricted shares and restricted share units with nonforfeitable dividends and dividend rights (participating securities).

NOTE 15 EQUITY

Preferred Stock

The following table provides the number of preferred shares issued and outstanding, the liquidation value per share and the number of authorized preferred shares that are available for future use.

Table 87: Preferred Stock – Authorized, Issued and Outstanding

			Preferred Sha	ires
December 31 Shares in thousands	I valu	Liquidation le per share	2017	2016
Authorized				
\$1 par value			20,000	20,000
Issued and outstanding				
Series B	\$	40	1	1
Series O	\$	100,000	10	10
Series P	\$	100,000	15	15
Series Q	\$	100,000	5	5
Series R	\$	100,000	5	5
Series S	\$	100,000	5	5
Total issued and outstanding			41	41

The following table discloses information related to the preferred stock outstanding as of December 31, 2017.

Table 88: Terms of Outstanding Preferred Stock

Preferred Stock	Issue Date	Number of Depositary Shares Issued	Fractional Interest in a share of preferred stock represented by each Depositary Share	Dividend Dates (a)	Annual Per Share Dividend Rate	Optional Redemption Date (b)
Series B (c)	(c)	N/A	N/A	Quarterly from March 10 th	\$ 1.80	None
Series O (d)	July 27, 2011	1 million	1/100 th	Semi-annually beginning on February 1, 2012 until August 1, 2021 Quarterly beginning on November 1, 2021	6.75% until August 1, 20213 Mo. LIBOR plus 3.678% per annum beginning on August 1,	August 1, 2021
					2021	
Series P (d)	April 24, 2012	60 million	1/4,000 th	Quarterly beginning on August 1, 2012	6.125% until May 1, 2022 3 Mo. LIBOR plus 4.0675% per annum beginning on May 1, 2022	May 1, 2022
Series Q (d)	September 21, 2012 October 9, 2012	18 million 1.2 million	1/4,000 th	Quarterly beginning on December 1, 2012	5.375%	December 1, 2017
Series R (d)	May 7, 2013	500.000	1/100 th	Semi-annually beginning on December 1, 2013 until June 1, 2023	4.85% until June 1, 2023	June 1, 2023
Series R (u)	May 7, 2013	500,000	1/100	Quarterly beginning on September 1, 2023	3 Mo. LIBOR plus 3.04% per annum beginning June 1, 2023	Julie 1, 2023
Series S (d)	November 1, 2016	525,000	1/100 th	Semi-annually beginning on May 1, 2017 until November 1, 2026	5.00% until November 1, 2026 3 Mo. LIBOR plus 3.30%	November 1, 2026
				Quarterly beginning on February 1, 2027	per annum beginning November 1, 2026	

(a) Dividends are payable when, as, and if declared by our Board of Directors or an authorized committee of our Board of Directors.

(b) Redeemable at our option on or after the date stated. With the exception of the Series B preferred stock, redeemable at our option within 90 days of a regulatory capital treatment event as defined in the designations.

(c) Cumulative preferred stock. Holders of Series B preferred stock are entitled to 8 votes per share, which is equal to the number of full shares of common stock into which the Series B preferred stock is convertible. The Series B preferred stock was issued in connection with the consolidation of Pittsburgh National Corporation and Provident National Corporation in 1983.

(d) Non-Cumulative preferred stock.

Each outstanding series of preferred stock other than the Series B contains restrictions on our ability to pay dividends and make other shareholder payments. Subject to limited exceptions, if dividends are not paid on any such series of preferred stock, we cannot declare dividends on or repurchase shares of our common stock. In addition, if we would like to repurchase shares of preferred stock, such repurchases must be on a pro rata basis with respect to all such series of preferred stock.

Our Series K preferred stock was issued on May 21, 2008. On May 4, 2015, we redeemed all 500,000 depositary shares representing interests in our Series K preferred stock and all 50,000 shares of Series K preferred stock underlying such depositary shares, resulting in a net outflow of \$500 million.

In February 2018, we redeemed the Series A preferred stock of PNC REIT Corp. which had been exchangeable into shares of PNC Series H preferred stock under certain conditions relating to the capitalization or the financial condition of PNC Bank. As described below in the Perpetual Trust Securities portion of the Noncontrolling Interests section of this Note, we redeemed all \$500 million of the PNC Preferred Funding Trust II securities that had been exchangeable under certain conditions into PNC Series I preferred stock.

Warrants

We had 3.5 million and 11.3 million warrants outstanding as of December 31, 2017 and 2016, respectively. The reduction was due to 7.8 million warrants that were exercised during 2017. At December 31, 2017, each warrant entitles the holder to purchase one share of PNC common stock at an exercise price of \$67.24 per share. In accordance with the terms of the warrants, the warrants are exercised on a non-cash net basis with the warrant holder receiving PNC common shares determined based on the excess of the market price of PNC common stock on the exercise date over the exercise price of the warrant. In 2017, we issued 3.5 million common shares resulting from the exercise of the warrants. The issuance of these shares resulted in a reclassification within Capital surplus with no impact on our Shareholders' equity. These warrants were sold by the U.S. Treasury in a secondary public offering that closed on May 5, 2010 after the U.S. Treasury exchanged its TARP Warrant (issued on December 31, 2008 under the TARP Capital Purchase Program) for 16.9 million warrants. These warrants expire December 31, 2018.

On January 4, 2018, PNC declared a quarterly common stock dividend on \$.75 per share to shareholders of record as of January 17, 2018. In accordance with the terms of the warrants, the declaration of a dividend in excess of \$.66 per share may result in an adjustment to the warrant exercise price and to the warrant share number. As a result of this dividend, the warrant exercise price was reduced from \$67.24 to \$67.20 per share on January 17, 2018 and the warrant share number remained 1.00.

Other Shareholders' Equity Matters

We have a dividend reinvestment and stock purchase plan. Holders of PNC common stock may participate in the plan, which provides that additional shares of common stock may be purchased at market value with reinvested dividends and voluntary cash payments. Common shares issued pursuant to this plan were .2 million shares for 2017, .3 million for 2016 and .3 million for 2015.

At December 31, 2017, we had reserved approximately 92 million common shares to be issued in connection with certain stock plans.

We repurchased 4.4 million shares in 2015 under the stock repurchase program that the Board of Directors approved effective October 4, 2007. Effective March 31, 2015, the Board of Directors terminated this share repurchase program and effective April 1, 2015 the Board of Directors replaced it with a new stock repurchase program authorization in the amount of up to 100 million shares of PNC common stock which may be purchased on the open market or in privately negotiated transactions. Under this program authorization, we repurchased 18.6 million shares in 2017 and 22.8 million shares in 2016. A maximum amount of 40.7 million shares remained available for repurchase under this program authorization at December 31, 2017. This program authorization will remain in effect until fully utilized or until modified, superseded or terminated.

Noncontrolling Interests

Perpetual Trust Securities

Our noncontrolling interests balance at December 31, 2017 reflected our March 15, 2017 redemption of \$1.0 billion Fixed-to-Floating Rate Non-Cumulative Exchangeable Perpetual Trust Securities issued by PNC Preferred Funding Trusts I and II with current distribution rates of 2.61% and 2.19%, respectively. The Perpetual Trust Securities were subject to replacement capital covenants dated December 6, 2006 and March 29, 2007 benefiting PNC Capital Trust C as the sole holder of \$200 million of junior subordinated debentures issued by PNC in June 1998. Upon redemption of the Perpetual Trust Securities, the replacement capital covenants terminated and such debentures ceased being covered debt with respect to the replacement capital covenants.

NOTE 16 OTHER COMPREHENSIVE INCOME

Details of other comprehensive income (loss) are as follows:

Table 89: Other Comprehensive Income

In millions	2017	2016	2015
Net unrealized gains (losses) on non-OTTI securities			
Increase in net unrealized gains (losses) on non-OTTI securities	\$ 29 \$	(329) \$	(494)
Less: Net gains (losses) realized as a yield adjustment reclassified to investment securities interest income	25	24	27
Less: Net gains (losses) realized on sales of securities reclassified to noninterest income	(12)	16	48
Net increase (decrease), pre-tax	16	(369)	(569)
Effect of income taxes	(6)	135	208
Net increase (decrease), after-tax	10	(234)	(361)
Net unrealized gains (losses) on OTTI securities			
Increase in net unrealized gains (losses) on OTTI securities	173	61	(17)
Less: Net gains (losses) realized on sales of securities reclassified to noninterest income	2		
Less: OTTI losses realized on securities reclassified to noninterest income	(1)	(2)	(4)
Net increase (decrease), pre-tax	172	63	(13)
Effect of income taxes	(63)	(23)	5
Net increase (decrease), after-tax	 109	40	(8)
Net unrealized gains (losses) on cash flow hedge derivatives			
Increase in net unrealized gains (losses) on cash flow hedge derivatives	(90)	100	415
Less: Net gains (losses) realized as a yield adjustment reclassified to loan interest income	159	219	270
Less: Net gains (losses) realized as a yield adjustment reclassified to investment securities interest income	21	34	23
Less: Net gains (losses) realized on sales of securities reclassified to noninterest income	17		(5)
Net increase (decrease), pre-tax	 (287)	(153)	127
Effect of income taxes	105	56	(47)
Net increase (decrease), after-tax	(182)	(97)	80
Pension and other postretirement benefit plan adjustments			
Net pension and other postretirement benefit activity	126	(41)	(82)
Amortization of actuarial loss (gain) reclassified to other noninterest expense	47	50	38
Amortization of prior service cost (credit) reclassified to other noninterest expense	(4)	(8)	(10)
Net increase (decrease), pre-tax	169	1	(54)
Effect of income taxes	(62)		20
Net increase (decrease), after-tax	107	1	(34)
Other			
PNC's portion of BlackRock's OCI	52	(63)	(39)
Net investment hedge derivatives	(81)	186	60
Foreign currency translation adjustments	90	(182)	(63)
Net increase (decrease), pre-tax	61	(59)	(42)
Effect of income taxes	12	(46)	(8)
Net increase (decrease), after-tax	73	(105)	(50)
Total other comprehensive income, pre-tax	 131	(517)	(551)
		(517) 122	(551) 178

Table 90: Accumulated Other Comprehensive Income (Loss) Components

In millions, after-tax	gain	et unrealized s (losses) on TI securities	ga	Net unrealized ains (losses) on DTTI securities	Net unrealized ns (losses) on cash v hedge derivatives	ро	Pension and other stretirement benefit plan adjustments	Other	Total
Balance at December 31, 2014	\$	647	\$	74	\$ 350	\$	(520)	\$ (48)	\$ 503
Net activity		(361)		(8)	80		(34)	(50)	(373)
Balance at December 31, 2015	\$	286	\$	66	\$ 430	\$	(554)	\$ (98)	\$ 130
Net activity		(234)		40	(97)		1	(105)	(395)
Balance at December 31, 2016	\$	52	\$	106	\$ 333	\$	(553)	\$ (203)	\$ (265)
Net Activity		10		109	(182)		107	73	117
Balance at December 31, 2017	\$	62	\$	215	\$ 151	\$	(446)	\$ (130)	\$ (148)

NOTE 17 INCOME TAXES

The components of income tax expense are as follows:

Table 91: Components of Income Tax Expense

Year ended December 31 In millions	 2017	 2016	2015
Current			
Federal	\$ 454	\$ 871	\$ 927
State	51	71	33
Total current	505	942	960
Deferred			
Federal	(474)	301	320
State	71	25	84
Total deferred	(403)	326	404
Total (a)	\$ 102	\$ 1,268	\$ 1,364

(a) The 2017 results benefited from the new federal tax legislation that was enacted on December 22, 2017.

Significant components of deferred tax assets and liabilities are as follows:

Table 92: Deferred Tax Assets and Liabilities

December 31 – in millions	2017 (a)	2016
Deferred tax assets		
Allowance for loan and lease losses	\$ 631	\$ 976
Compensation and benefits	223	548
Partnership investments	173	307
Loss and credit carryforward	301	460
Accrued expenses	284	505
Other	131	252
Total gross deferred tax assets	1,743	3,048
Valuation allowance	(40)	(75)
Total deferred tax assets	1,703	2,973
Deferred tax liabilities		
Leasing	1,034	1,374
Goodwill and intangibles	197	312
Fixed assets	206	391
Mortgage servicing rights	146	246
Net unrealized gains on securities and financial instruments	155	284
BlackRock basis difference	1,594	2,361
Other	345	371
Total deferred tax liabilities	3,677	5,339
Net deferred tax liability	\$ 1,974	\$ 2,366

(a) Reflected the impact of new federal tax legislation that was enacted on December 22, 2017. Certain tax legislation amounts are considered reasonable estimates as of December 31, 2017. As the result of the Tax Cuts and Jobs Act signed into law on December 22, 2017, PNC recognized a benefit of \$1.2 billion primarily attributable to the revaluation of net deferred tax liabilities. To the extent our accounting of certain income tax effects is complete, these tax effects have been included in the financial statements. However, to the extent our accounting for certain income tax effects is incomplete, but can be reasonably estimated, the estimated effects are included as provisional amounts in the financial statements.

Based on current estimates, any adjustments to provisional amounts are not expected to be material during the measurement period. However, additional data and analysis is being collected in the preparation of our 2017 income tax returns which upon completion will validate or cause provisional amounts to be adjusted. Furthermore the newly enacted law is unclear in certain aspects, and may require additional clarification through legislative amendments or governmental agency regulations or interpretations.

During the one year measurement period, which will end in December 2018, the provisional amounts may be adjusted upon obtaining, preparing and analyzing additional information about facts and circumstances that existed at the enactment date. A reconciliation between the statutory and effective tax rates follows:

Year ended December 31	2017	2016	2015
Statutory tax rate	35.0%	35.0%	35.0%
Increases (decreases) resulting from:			
State taxes net of federal benefit	1.5	1.2	1.4
Tax-exempt interest	(2.5)	(2.4)	(2.3)
Life insurance	(1.8)	(1.9)	(1.7)
Dividend received deduction	(1.8)	(1.8)	(1.7)
Tax credits	(4.2)	(4.4)	(3.9)
Federal deferred tax revaluation	(21.7)		
Other	(2.6)	(1.6)	(2.0) (a)
Effective tax rate (b)	1.9%	24.1%	24.8%

(a) Includes tax benefits associated with settlement of acquired entity tax contingencies.

(b) The effective tax rates are generally lower than the statutory rate due to the relationship of pretax income to tax credits and earnings that are not subject to tax. The 2017 results benefited from the new federal tax legislation. Certain tax legislation amounts are considered reasonable estimates as of December 31, 2017.

The net operating loss carryforwards at December 31, 2017 and 2016 follow:

Table 94: Net Operating Loss Carryforwards

Dollars in millions	Dec	ember 31 2017	De	ecember 31 2016	Expiration
Net Operating Loss Carryforwards:					
Federal	\$	640	\$	759	2032
State	\$	1,776	\$	2,345	2018 - 2036

The majority of the tax credit carryforwards expire in 2032 and were insignificant at December 31, 2017 and December 31, 2016. All federal and most state net operating loss and credit carryforwards are from acquired entities and utilization is subject to various statutory limitations. We anticipate that we will be able to fully utilize our carryforwards for federal tax purposes, but we have recorded an insignificant valuation allowance against certain state tax carryforwards as of December 31, 2017. If select uncertain tax positions were successfully challenged by a state, the state net operating losses listed in Table 94 could be reduced by an insignificant amount.

As a result of the Tax Cuts and Jobs Act, an insignificant amount of taxes have been accrued on unremitted foreign earnings. There are no remaining foreign earnings for which U.S. deferred taxes have not been provided.

Retained earnings included \$.1 billion at both December 31, 2017 and December 31, 2016 in allocations for bad debt deductions of former thrift subsidiaries for which no income tax has been provided. Under current law, if certain subsidiaries use these bad debt reserves for purposes other than to absorb bad debt losses, they will be subject to Federal income tax at the current corporate tax rate.

A reconciliation of the beginning and ending balance of unrecognized tax benefits is as follows:

Table 95: Change in Unrecognized Tax Benefits

In millions	 2017	2016	 2015
Balance of gross unrecognized tax benefits at January 1	\$ 22	\$ 26	\$ 77
Increases:			
Positions taken during a prior period	4	14	17
Decreases:			
Positions taken during a prior period	(3)	(14)	(9)
Settlements with taxing authorities	(4)		(52)
Reductions resulting from lapse of statute of limitations	(1)	(4)	(7)
Balance of gross unrecognized tax benefits at December 31	\$ 18	\$ 22	\$ 26
Favorable (unfavorable) impact if recognized	\$ 17	\$ 18	\$ 20

It is reasonably possible that the balance of unrecognized tax benefits could increase or decrease in the next twelve months due to completion of tax authorities' exams or the expiration of statutes of limitations; however, the estimated amount is insignificant.

We are subject to U.S. federal income tax as well as income tax in most states and some foreign jurisdictions. Table 96 summarizes the status of significant IRS examinations of us.

Table 96: IRS Tax Examination Status

	Years under examination	Status at December 31
Federal	2014 - 2015	Completed
	2016	Under Exam

In addition, we are under continuous examinations by various state taxing authorities. With few exceptions, we are no longer subject to state and local and foreign income tax examinations by taxing authorities for periods before 2012. For all open audits, any potential adjustments have been considered in establishing our unrecognized tax benefits as of December 31, 2017.

Our policy is to classify interest and penalties associated with income taxes as income tax expense. For 2017 and 2016, the amount of gross interest and penalties was insignificant. At December 31, 2017 and December 31, 2016, the related amounts of accrued interest and penalties was also insignificant.

NOTE 18 REGULATORY MATTERS

We are subject to the regulations of certain federal, state, and foreign agencies and undergo periodic examinations by such regulatory authorities.

The ability to undertake new business initiatives (including acquisitions), the access to and cost of funding for new business initiatives, the ability to pay dividends, the ability to repurchase shares or other capital instruments, the level of deposit insurance costs, and the level and nature of regulatory oversight depend, in large part, on a financial institution's capital strength.

At December 31, 2017 and December 31, 2016, PNC and PNC Bank, our domestic banking subsidiary, were both considered "well capitalized," based on applicable U.S. regulatory capital ratio requirements.

The following table sets forth the Transitional Basel III regulatory capital ratios at December 31, 2017 and December 31, 2016 for PNC and PNC Bank.

Table 97: Basel Regulatory Capital (a)

	Am	ount	Ratios					
December 31 Dollars in millions	2017	2016	2017	2016	"Well Capitalized" Requirements			
Risk-based capital								
Common equity 7	Fier 1							
PNC	\$ 32,146	\$ 31,799	10.4%	10.6%	N/A			
PNC Bank	\$ 28,771	\$ 27,896	9.7%	9.7%	6.5%			
Tier 1								
PNC	\$ 36,007	\$ 36,101	11.6%	12.0%	6.0%			
PNC Bank	\$ 28,942	\$ 29,495	9.7%	10.2%	8.0%			
Total								
PNC	\$ 42,496	\$ 43,016	13.7%	14.3%	10.0%			
PNC Bank	\$ 34,756	\$ 35,842	11.7%	12.4%	10.0%			
Leverage								
PNC	\$ 36,007	\$ 36,101	9.9%	10.1%	N/A			
PNC Bank	\$ 28,942	\$ 29,495	8.2%	8.6%	5.0%			

(a) Calculated using the Transitional Basel III regulatory capital methodology applicable to us during both 2017 and 2016.

The principal source of parent company cash flow is the dividends it receives from PNC Bank, which may be impacted by the following:

- Capital needs,
- Laws and regulations,
- Corporate policies,
- Contractual restrictions, and
- Other factors.

Also, there are statutory and regulatory limitations on the ability of national banks to pay dividends or make other capital distributions. The amount available for dividend payments to the parent company by PNC Bank without prior regulatory approval was approximately \$1.6 billion at December 31, 2017.

Under federal law, a bank subsidiary generally may not extend credit to, or engage in other types of covered transactions (including the purchase of assets) with, the parent company or its non-bank subsidiaries on terms and under circumstances that are not substantially the same as comparable transactions with nonaffiliates. A bank subsidiary may not extend credit to, or engage in a covered transaction with, the parent company or a non-bank subsidiary if the aggregate amount of the bank's extensions of credit and other covered transactions with the parent company or non-bank subsidiary exceeds 10% of the capital stock and surplus of such bank subsidiary or the aggregate amount of the bank's extensions of credit and other covered transactions with the parent company and all nonbank subsidiaries exceeds 20% of the capital stock and surplus of such bank subsidiary. Such extensions of credit, with limited exceptions, must be at least fully collateralized in accordance with specified collateralization thresholds, with the thresholds varying based on the type of assets serving as collateral. In certain circumstances, federal regulatory authorities may impose more restrictive limitations.

Federal Reserve Board regulations require depository institutions to maintain cash reserves with a Federal Reserve Bank (FRB). At December 31, 2017, the balance outstanding at the FRB was \$28.3 billion.

NOTE 19 LEGAL PROCEEDINGS

We establish accruals for legal proceedings, including litigation and regulatory and governmental investigations and inquiries, when information related to the loss contingencies represented by those matters indicates both that a loss is probable and that the amount of loss can be reasonably estimated. Any such accruals are adjusted thereafter as appropriate to reflect changed circumstances. When we are able to do so, we also determine estimates of possible losses or ranges of possible losses, whether in excess of any related accrued liability or where there is no accrued liability, for disclosed legal proceedings ("Disclosed Matters," which are those matters disclosed in this Note 19). For Disclosed Matters where we are able to estimate such possible losses or ranges of possible losses, as of December 31, 2017, we estimate that it is reasonably possible that we could incur losses in excess of related accrued liabilities, if any, in an aggregate amount of up to approximately \$100 million. The estimates included in this amount are based on our analysis of currently available information and are subject to significant judgment and a variety of assumptions and uncertainties. As new information is obtained we may change our estimates. Due to the inherent subjectivity of the assessments and unpredictability of outcomes of legal proceedings, any amounts accrued or included in this aggregate amount may not represent the ultimate loss to us from the legal proceedings in question. Thus, our exposure and ultimate losses may be higher, and possibly significantly so, than the amounts accrued or this aggregate amount.

In our experience, legal proceedings are inherently unpredictable. One or more of the following factors frequently contribute to this inherent unpredictability: the proceeding is in its early stages; the damages sought are unspecified, unsupported or uncertain; it is unclear whether a case brought as a class action will be allowed to proceed on that basis or, if permitted to proceed as a class action, how the class will be defined; the other party is seeking relief other than or in addition to compensatory damages (including, in the case of regulatory and governmental investigations and inquiries, the possibility of fines and penalties); the matter presents meaningful legal uncertainties, including novel issues of law; we have not engaged in meaningful settlement discussions; discovery has not started or is not complete; there are significant facts in dispute; the possible outcomes may not be amenable to the use of statistical or quantitative analytical tools; predicting possible outcomes depends on making assumptions about future decisions of courts or regulatory bodies or the behavior of other parties; and there are a large number of parties named as defendants (including where it is uncertain how damages or liability, if any, will be shared among multiple defendants). Generally, the less progress that has been made in the proceedings or the broader the range of potential results, the harder it is for us to estimate losses or ranges of losses that it is reasonably possible we could incur.

As a result of these types of factors, we are unable, at this time, to estimate the losses that are reasonably possible to be incurred or ranges of such losses with respect to some of the matters disclosed, and the aggregate estimated amount provided above does not include an estimate for every Disclosed Matter. Therefore, as the estimated aggregate amount disclosed above does not include all of the Disclosed Matters, the amount disclosed above does not represent our maximum reasonably possible loss exposure for all of the Disclosed Matters. The estimated aggregate amount also does not reflect any of our exposure to matters not so disclosed, as discussed below under "Other."

We include in some of the descriptions of individual Disclosed Matters certain quantitative information related to the plaintiff's claim against us as alleged in the plaintiff's pleadings or other public filings or otherwise publicly available information. While information of this type may provide insight into the potential magnitude of a matter, it does not necessarily represent our estimate of reasonably possible loss or our judgment as to any currently appropriate accrual.

Some of our exposure in Disclosed Matters may be offset by applicable insurance coverage. We do not consider the possible availability of insurance coverage in determining the amounts of any accruals (although we record the amount of related insurance recoveries that are deemed probable up to the amount of the accrual) or in determining any estimates of possible losses or ranges of possible losses.

Interchange Litigation

Beginning in June 2005, a series of antitrust lawsuits were filed against Visa[®], MasterCard[®], and several major financial institutions, including cases naming National City (since merged into The PNC Financial Services Group, Inc.) and its subsidiary, National City Bank of Kentucky (since merged into National City Bank which in turn was merged into PNC Bank). The plaintiffs in these cases are merchants operating commercial businesses throughout the U.S., as well as trade associations. Some of these cases (including those naming National City entities) were brought as class actions on behalf of all persons or business entities that have accepted Visa® or MasterCard®. The cases have been consolidated for pre-trial proceedings in the U.S. District Court for the Eastern District of New York under the caption In re Payment Card Interchange Fee and Merchant-Discount Antitrust Litigation (Master File No. 1:05-md-1720-MKB-JO).

In July 2012, the parties entered into a memorandum of understanding with the class plaintiffs and an agreement in principle with certain individual plaintiffs with respect to a settlement of these cases, under which the defendants agreed to pay approximately \$6.6 billion collectively to the class and individual settling plaintiffs and agreed to changes in the terms applicable to their respective card networks (including an eight-month reduction in default credit interchange rates). The parties entered into a definitive agreement with respect to this settlement in October 2012. The court granted final approval of the settlement in December 2013. Several objectors appealed the order of approval to the U.S. Court of Appeals for the Second Circuit, which issued an order in June 2016, reversing approval of the settlement and remanding for further proceedings. In November 2016, the plaintiffs filed a petition for a writ of certiorari with the U.S. Supreme Court to challenge the court of appeal's decision. The Supreme Court denied the petition in March 2017.

As a result of the reversal of the approval of the settlement, the class actions have resumed in the district court. In November 2016, the district court appointed separate interim class counsel for a proposed class seeking damages and a proposed class seeking equitable (injunctive) relief. In February 2017, each of these counsel filed a proposed amended and supplemental complaint on behalf of its respective proposed class. These complaints make similar allegations, including that the defendants conspired to monopolize and to fix the prices for general purpose card network services, that the restructuring of Visa and MasterCard, each of which included an initial public offering, violated the antitrust laws, and that the defendants otherwise imposed unreasonable restraints on trade, resulting in the payment of inflated interchange fees and other fees, which also violated the antitrust laws. In their complaints, collectively the plaintiffs seek, among other things, injunctive relief, unspecified damages (trebled under the antitrust laws) and attorneys' fees. PNC is named as a defendant in the complaint seeking damages but is not named as a defendant in the complaint that seeks equitable relief.

In September 2017, the magistrate judge at the district court granted in part and denied in part the plaintiffs' motions to file their proposed amended complaints. The dispute over amendment arose in part from the decision in United States v. American Express, Co., 838 F.3d 179 (2d Cir. 2016), in which the court held that the relevant market in a similar complaint against American Express is "two-sided," *i.e.*, requires consideration of effects on consumers as well as merchants. In October 2017, the U.S. Supreme Court granted a writ of certiorari (under the caption Ohio v. American Express Co.) to review the court's decision in American Express. Oral argument took place in February 2018. Previously, the plaintiffs in this litigation had alleged a one-sided market, and, as a result of the court's decision in American Express, they sought leave to add claims based on a two-sided market. The order allowed the complaint to be amended to include allegations pertaining to a two-sided market only to the extent those claims are not time-barred, but held that the two-sided market allegations do not relate back to the time of the original complaint and are not subject to tolling. In October 2017, the plaintiffs appealed this order to the presiding district judge.

National City and National City Bank entered into judgment and loss sharing agreements with Visa and certain other banks with respect to all of the above referenced litigation. We were not originally named as defendants in any of the Visa or MasterCard related antitrust litigation nor were we initially parties to the judgment or loss sharing agreements. However, we became responsible for National City's and National City Bank's position in the litigation and responsibilities under the agreements through our acquisition of National City. In addition, following Visa's reorganization in 2007 in contemplation of its initial public offering, U.S. Visa members received shares of Class B Visa common stock, convertible

upon resolution of specified litigation, including the remaining litigation described above, into shares of Class A Visa common stock, with the conversion rate adjusted to reflect amounts paid or escrowed to resolve the specified litigation, and also remained responsible for indemnifying Visa against the specified litigation. Our Class B Visa common stock is all subject to this conversion adjustment provision, and we are now responsible for the indemnification obligations of our predecessors as well as ourselves. We have also entered into a MasterCard Settlement and Judgment Sharing Agreement with MasterCard and other financial institution defendants and an **Omnibus Agreement Regarding Interchange Litigation** Sharing and Settlement Sharing with Visa, MasterCard and other financial institution defendants. The Omnibus Agreement, in substance, apportions resolution of the claims in this litigation into a Visa portion and a MasterCard portion, with the Visa portion being two-thirds and the MasterCard portion being one-third. This apportionment only applies in the case of either a global settlement involving all defendants or an adverse judgment against the defendants, to the extent that damages either are related to the merchants' inter-network conspiracy claims or are otherwise not attributed to specific MasterCard or Visa conduct or damages. The MasterCard portion (or any MasterCard-related liability not subject to the Omnibus Agreement) will then be apportioned under the MasterCard Settlement and Judgment Sharing Agreement among MasterCard and PNC and the other financial institution defendants that are parties to this agreement. The responsibility for the Visa portion (or any Visa-related liability not subject to the Omnibus Agreement) will be apportioned under the pre-existing indemnification responsibilities and judgment and loss sharing agreements.

Fulton Financial

In 2009, Fulton Financial Advisors, N.A. filed lawsuits against PNC Capital Markets, LLC and NatCity Investments, Inc. in the Court of Common Pleas of Lancaster County, Pennsylvania arising out of Fulton's purchase of auction rate certificates (ARCs) through PNC and NatCity. In each original complaint, Fulton alleged violations of the Pennsylvania Securities Act, negligent misrepresentation, negligence, breach of fiduciary duty, common law fraud, and aiding and abetting common law fraud in connection with the purchase of the ARCs by Fulton. Specifically, Fulton alleged that, as a result of the decline of financial markets in 2007 and 2008, the market for ARCs became illiquid; that PNC and NatCity knew or should have known of the increasing threat of the ARC market becoming illiquid; and that PNC and NatCity did not inform Fulton of this increasing threat, but allowed Fulton to continue to purchase ARCs, to Fulton's detriment. In its complaints, Fulton alleged that it then held ARCs purchased through PNC for a price of more than \$123 million and purchased through NatCity for a price of more than \$175 million. In each complaint, Fulton seeks, among other things, unspecified actual and punitive damages, rescission, attorneys' fees and interest.

NatCity removed the case against it to the U.S. District Court for the Eastern District of Pennsylvania (*Fulton Financial Advisors, N.A. v. NatCity Investments, Inc.* (No. 5:09cv-04855)), and in November 2009 filed a motion to dismiss the complaint. In October 2013, the court granted the motion to dismiss with respect to claims under the Pennsylvania Securities Act and for negligent misrepresentation, common law fraud, and aiding and abetting common law fraud and denied the motion with respect to claims for negligence and breach of fiduciary duty. Fulton filed an amended complaint in December 2013, reasserting its negligence and breach of fiduciary duty claims and adding a new claim under the Pennsylvania Securities Act. Fulton and NatCity filed motions for summary judgment in February 2015. In January 2017, the court granted NatCity's motion for summary judgment with respect to the claim under the Pennsylvania Securities Act and otherwise denied both Fulton's and NatCity's motions.

In November 2017, PNC and Fulton entered into a final agreement to settle both of these cases, as a result of which these cases are fully resolved. The terms of the settlement were not announced. The financial impact of the settlement was not material to PNC.

Captive Mortgage Reinsurance Litigation

In December 2011, a lawsuit (White, et al. v. The PNC Financial Services Group, Inc., et al. (Civil Action No. 11-7928)) was filed against PNC (as successor in interest to National City Corporation and several of its subsidiaries) and several mortgage insurance companies in the U.S. District Court for the Eastern District of Pennsylvania. This lawsuit, which was brought as a class action, alleges that National City structured its program of reinsurance of private mortgage insurance in such a way as to avoid a true transfer of risk from the mortgage insurers to National City's captive reinsurer. The plaintiffs allege that the payments from the mortgage insurers to the captive reinsurer constitute kickbacks, referral payments, or unearned fee splits prohibited under the Real Estate Settlement Procedures Act (RESPA), as well as common law unjust enrichment. The plaintiffs claim, among other things, that from the beginning of 2004 until the end of 2010 National City's captive reinsurer collected from the mortgage insurance company defendants at least \$219 million as its share of borrowers' private mortgage insurance premiums and that its share of paid claims during this period was approximately \$12 million. The plaintiffs seek to certify a nationwide class of all persons who obtained residential mortgage loans originated, funded or originated through correspondent lending by National City or any of its subsidiaries or affiliates between January 1, 2004 and the present and, in connection with these mortgage loans, purchased private mortgage insurance and whose residential mortgage loans were included within National City's captive mortgage reinsurance arrangements. Plaintiffs seek, among other things, statutory damages under RESPA (which include treble damages), restitution of reinsurance premiums collected, disgorgement of profits, and attorneys' fees. In August 2012, the district court directed the plaintiffs to file an amended complaint, which the plaintiffs filed in September 2012. In November 2012, we filed a motion to dismiss the amended complaint. The court dismissed, without prejudice, the amended complaint in June 2013 on statute of limitations grounds. A second amended complaint, in response to the

court's dismissal order, was filed in July 2013. We filed a motion to dismiss the second amended complaint, also in July 2013. In August 2014, the court denied the motion to dismiss. We then filed an uncontested motion to stay all proceedings pending the outcome of another matter then on appeal before the U.S. Court of Appeals for the Third Circuit that involves overlapping issues. In September 2014, the district court granted the stay. In October 2014, the court of appeals decided that other matter, holding that the RESPA claims in that case were barred by the statute of limitations. We then filed a motion for reconsideration of the denial of our motion to dismiss in light of the court of appeals' decision. In January 2015, the district court denied our motion. In March 2015, the parties stipulated to, and the court ordered, a stay of all proceedings pending the outcome of a new other matter currently on appeal before the U.S. Court of Appeals for the Third Circuit that also involves overlapping issues. In February 2016, the court of appeals in the other matter issued a decision favorable to our position.

In September 2016, the plaintiffs moved to lift the stay and for permission to file a Third Amended Class Action Complaint to add claims under the Racketeer Influenced and Corrupt Organizations Act (RICO) and to assert that the RESPA claim is not barred by the statute of limitations under the "continuing violations doctrine" because every acceptance of a reinsurance premium is a new occurrence for these purposes. In January 2017, the court denied the plaintiffs' motion to amend to add a RICO claim, but granted their motion permitting them to rely on the continuing violations doctrine to assert claims under RESPA. We moved to certify this issue for interlocutory appeal to U.S. Court of Appeals for the Third Circuit and sought a stay in the district court pending an appeal. Although the district court certified the issue for immediate interlocutory appeal in March 2017 and stayed the action, the court of appeals shortly thereafter declined to accept the appeal. As a result proceedings have resumed in the district court.

Residential Mortgage-Backed Securities Indemnification Demands

We have received indemnification demands from several entities sponsoring residential mortgage-backed securities and their affiliates where purchasers of the securities have brought litigation against the sponsors and other parties involved in the securitization transactions. National City Mortgage had sold whole loans to the sponsors or their affiliates that were allegedly included in certain of these securitization transactions. According to the indemnification demands, the plaintiffs' claims in these lawsuits are based on alleged misstatements and omissions in the offering documents for these transactions. The indemnification demands assert that agreements governing the sale of these loans or the securitization transactions to which National City Mortgage was a party require us to indemnify the sponsors and their affiliates for losses suffered in connection with these lawsuits. The parties have settled several of these cases. There has not been any determination that the parties seeking indemnification have any liability to the plaintiffs in the other lawsuits and the amount, if any, for which we are responsible in the settled cases has not been determined.

Patent Infringement Litigation

In June 2013, a lawsuit (Intellectual Ventures I LLC and Intellectual Ventures II LLC vs. PNC Financial Services Group, Inc., and PNC Bank, NA, (Case No. 2:13cv-00740-AJS)(IV 1)) was filed in the U.S. District Court for the Western District of Pennsylvania against PNC and PNC Bank for patent infringement. The plaintiffs allege that multiple systems by which PNC and PNC Bank provide online banking services and other services via electronic means infringe five patents owned by the plaintiffs. The plaintiffs seek, among other things, a declaration that PNC and PNC Bank are infringing each of the patents, damages for past and future infringement, and attorneys' fees. In July 2013, we filed an answer with counterclaims, denying liability and seeking declarations that the asserted patents are invalid and that PNC has not infringed them. In November 2013, PNC filed Covered Business Method/Post Grant Review petitions in the U.S. Patent & Trademark Office (PTO) seeking to invalidate all five of the patents. In December 2013, the court dismissed the plaintiffs' claims as to two of the patents and entered a stay of the lawsuit pending the PTO's consideration of PNC's review petitions, including any appeals from decisions of the PTO. The PTO instituted review proceedings in May 2014 on four of the five patents at issue, finding that the subject matter of those patents was "more likely than not" unpatentable. The court had previously dismissed the plaintiffs' claims with respect to the one patent not selected for review by the PTO. In separate decisions issued in April and May 2015, the PTO invalidated all claims with respect to the patents that were still at issue in IV1. In July 2015, in an appeal arising out of proceedings against a different defendant relating to some of the same patents, the U.S. Court of Appeals for the Federal Circuit affirmed the invalidity of the two patents at issue in both IV 1 and the Federal Circuit appeal. As a result, all of the patents at issue in IV1 not subject to the prior dismissal have been invalidated. In October 2015, the plaintiffs moved to dismiss with prejudice their claims arising from the patents that had not been subject to prior dismissal in IV 1, which the court granted.

In June 2014, Intellectual Ventures filed a second lawsuit (Intellectual Ventures I LLC and Intellectual Ventures II LLC v. PNC Bank Financial Services Group, Inc., PNC Bank NA, and PNC Merchant Services Company, LP (Case No. 2:14cv-00832-AKS)(IV 2)) in the same court as IV 1. This lawsuit alleges that PNC defendants infringed five patents, including the patent dismissed in IV 1 that is not subject to PTO review, and relates generally to the same technology and subject matter as the first lawsuit. The court has stayed this case, which was consolidated with IV1 in August 2014, pending the PTO's consideration of various review petitions of the patents at issue in this case, as well as the review of the patents at issue in *IV 1* and the appeals from any PTO decisions. In April 2015, the PTO, in a proceeding brought by another defendant, upheld the patentability of one of the patents at issue in IV 2. That decision was appealed to the Federal Circuit, which affirmed it in February 2016. After decisions adverse to the patent holder in the PTO and several U.S. District Courts on three of the remaining patents, in October 2015, the plaintiffs voluntarily dismissed without prejudice their claims with

respect to those three patents, leaving two patents at issue in this lawsuit. The plaintiffs moved to deconsolidate *IV 1* and *IV 2* and to lift the stay. The court denied this motion in October 2015, continuing the stay until certain court proceedings against other defendants related to the same patents are resolved.

Mortgage Repurchase Litigation

In December 2013, Residential Funding Company, LLC (RFC) filed a lawsuit in the U.S. District Court for the District of Minnesota against PNC Bank, as alleged successor in interest to National City Mortgage Co., NCMC Newco, Inc., and North Central Financial Corporation (Residential Funding Company, LLC v. PNC Bank, N.A., et al. (Civil No. 13-3498-JRT-JSM)). In its complaint, RFC alleged that PNC Bank (through predecessors) sold \$6.5 billion worth of residential mortgage loans to RFC during the timeframe at issue (approximately May 2006 through September 2008), a portion of which were allegedly materially defective, resulting in damages and losses to RFC. RFC alleged that PNC Bank breached representations and warranties made under seller contracts in connection with these sales. The complaint asserted claims for breach of contract and indemnification. RFC sought, among other things, monetary damages, costs, and attorney's fees. In March 2014, we filed a motion to dismiss the complaint. RFC then filed an amended complaint. In April 2014, we moved to dismiss the amended complaint. In October 2014, the court granted our motion to dismiss with prejudice the breach of contract claims in the complaint with respect to loans sold before May 14, 2006 and otherwise denied our motion to dismiss. In January 2015, the lawsuit was consolidated for pre-trial purposes with other lawsuits pending in the District of Minnesota filed by RFC against other originators of mortgage loans that it had purchased. The consolidated action is captioned In Re: RFC and RESCAP Liquidating Trust Litigation (Civil File No. 13-cv-3451 (SRN/ JJK/HB)). In September 2015, RFC filed a motion for leave to file a second amended complaint to add claims based on an asserted principle that loan sellers had a continuing contractual obligation to provide notice of loan defects, which RFC claims should allow it to assert contract claims as to pre-May 14, 2006 loans notwithstanding the prior dismissal of those claims with prejudice. In November 2015, the court granted RFC's motion, and RFC filed its second amended complaint thereafter.

In January 2017, the ResCap Liquidating Trust (RLT) filed a lawsuit in the U.S. District Court for the District of Minnesota against PNC Bank, as successor in interest to Community Bank of Northern Virginia (CBNV) (*ResCap Liquidating Trust v. PNC Bank, N.A.* (No. 17-cv-196-JRT-FLN)). In its complaint, the RLT alleged that PNC Bank (as successor to CBNV) sold over 21,300 mortgage loans to RFC, with an original principal balance in excess of \$789 million, which were included in RFC-sponsored RMBS trusts for which liabilities were settled in RFC's bankruptcy. The RLT alleged that PNC Bank (as successor to CBNV) materially breached its representation and warranties made to RFC in connection with the sale of the loans, resulting in damages and losses to RFC. The complaint asserted claims for breach of contract and indemnification and seeks, among other things, monetary damages, costs, and attorney's fees. The action was consolidated for pre-trial purposes into *In Re: RFC and RESCAP Liquidating Trust Litigation*.

In March 2017, we filed a motion to dismiss the complaint. In July 2017, the court denied our motion to dismiss.

In November 2017, we entered into a final agreement with RFC and the RLT to settle both of these cases, as a result of which the cases are fully resolved. The terms of the settlement were not announced. The financial impact of the settlement was not material to PNC.

Pre-need Funeral Arrangements

National City Bank and PNC Bank are defendants in a lawsuit filed in the U.S. District Court for the Eastern District of Missouri under the caption *Jo Ann Howard and Associates*, *P.C., et al. v. Cassity, et al.* (No. 4:09-CV-1252-ERW) arising out of trustee services provided by Allegiant Bank, a National City Bank and PNC Bank predecessor, with respect to Missouri trusts that held pre-need funeral contract assets. Under a pre-need funeral contract, a customer pays an amount up front in exchange for payment of funeral expenses following the customer's death. In a number of states, including Missouri, pre-need funeral contract sellers are required to deposit a portion of the proceeds of the sale of preneed funeral contracts in a trust account.

The lawsuit was filed in August 2009 by the Special Deputy Receiver for three insolvent affiliated companies, National Prearranged Services, Inc. a seller of pre-need funeral contracts (NPS), Lincoln Memorial Life Insurance Company (Lincoln), and Memorial Service Life Insurance Company (Memorial). Seven individual state life and health insurance guaranty associations, who claim they are liable under state law for payment of certain benefits under life insurance policies sold by Lincoln and Memorial, and the National Organization of Life & Health Guaranty Associations have also joined the action as plaintiffs. In addition to National City Bank and PNC Bank (added following filing of the lawsuit as successor-in-interest to National City Bank) (the PNC defendants), other defendants included members of the Cassity family, who controlled NPS, Lincoln, and Memorial; officers and directors of NPS, Lincoln, and Memorial; auditors and attorneys for NPS, Lincoln, and Memorial; the trustees of each of the trusts that held pre-need funeral contract assets; and the investment advisor to the Pre-need Trusts. NPS retained several banks to act as trustees for the trusts holding NPS preneed funeral contract assets (the NPS Trusts), with Allegiant Bank acting as one of these trustees with respect to seven Missouri NPS Trusts. All of the other defendants have settled with the plaintiffs, are otherwise no longer a party to the lawsuit, or are insolvent.

In their Third Amended Complaint, filed in 2012 following the granting by the court in part of motions to dismiss made by the PNC defendants and the other NPS Trust trustees, the plaintiffs allege that Allegiant Bank breached its fiduciary duties and acted negligently as the trustee for the Missouri

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NPS Trusts. In part as a result of these breaches, the plaintiffs allege, members of the Cassity family, acting in concert with other defendants, were able to improperly remove millions of dollars from the NPS Trusts, which in turn caused NPS, Lincoln, and Memorial to become insolvent. The complaint alleges \$600 million in present and future losses to the plaintiffs due to the insolvency of NPS, Lincoln, and Memorial. The lawsuit seeks, among other things, unspecified actual and punitive damages, various equitable remedies including restitution, attorneys' fees, costs of suit and interest.

In July 2013, five of the six defendants in a parallel federal criminal action, including two members of the Cassity family, entered into plea agreements with the U.S. to resolve criminal charges arising out of their conduct at NPS, Lincoln and Memorial. In August 2013, after a jury trial, the sixth defendant, the investment advisor to the NPS Trusts, was convicted on all criminal counts against him. The criminal charges against the defendants alleged, among other thing, a scheme to defraud Allegiant Bank and the other trustees of the NPS Trusts.

In May 2014, the court granted the plaintiffs' motion to disallow the PNC defendants' affirmative defense relating to the plaintiffs' alleged failure to mitigate damages. In July 2014, the PNC defendants' motion for reconsideration was denied. In September 2014, the plaintiffs filed a motion seeking leave to amend their complaint to reassert aiding and abetting claims, previously dismissed by the court in 2012. The court denied this motion in December 2014. Also in December 2014, the court granted in part and denied in part the PNC defendants' motion for summary judgment.

In March 2015, following a jury trial, the court entered a judgment against the PNC defendants in the amount of \$356 million in compensatory damages and \$36 million in punitive damages. In April 2015, the plaintiffs filed motions with the court seeking \$179 million in pre-judgment interest. Also, in April 2015, the PNC defendants filed motions with the court to reduce the compensatory damages by the amounts paid in settlement by other defendants, to strike the punitive damages award, for judgment as a matter of law, and for a new trial. In November 2015, the court granted the motion to reduce the compensatory damages by the 2015 defendants and denied the other motions by the PNC defendants, with the judgment being reduced as a result to a total of \$289 million, and also denied the plaintiffs' motion for pre-judgment interest.

In December 2015, the PNC defendants appealed the judgment to the U.S. Court of Appeals for the Eighth Circuit. Also in December 2015, the plaintiffs cross-appealed from the court's orders reducing the judgment by amounts paid in settlement by other defendants, denying plaintiffs' motion for pre-judgment interest, and dismissing the plaintiffs' aiding and abetting claims. In August 2017, the court of appeals reversed the judgment to the extent that it was based on tort rather than trust law. The court accordingly held that any damages awarded to the plaintiff will be limited to losses to the trusts in Missouri caused by Allegiant's breaches during the time it acted as trustee; plaintiffs cannot recover for damages to the Missouri trusts after Allegiant's trusteeship or outside of the Missouri trusts, which had been included in the judgment under appeal. The court of appeals otherwise affirmed the judgment, including the dismissal of the aiding and abetting claims, and remanded the case to the district court for further proceedings in light of its decision. In September 2017, plaintiffs filed a motion for rehearing by the panel solely seeking to remove the prohibition on damages being sought for the period following Allegiant's trusteeship. In December 2017, the court denied the petition for rehearing. Proceedings have resumed in the district court.

DD Growth Premium Master Fund

In June 2014, the liquidators of the DD Growth Premium Master Fund (DD Growth) issued a Plenary Summons in the High Court, Dublin, Ireland, in connection with the provision of administration services to DD Growth by a European subsidiary (GIS Europe) of PNC Global Investment Servicing (PNC GIS), a former subsidiary of PNC. The Plenary Summons was served on GIS Europe in June 2015.

In July 2010, we completed the sale of PNC GIS to The Bank of New York Mellon Corporation (BNY Mellon). Beginning in February 2014, BNY Mellon has provided notice to us of three indemnification claims pursuant to the stock purchase agreement related to DD Growth. Our responsibility for this litigation is subject to the terms and limitations included in the indemnification provisions of the stock purchase agreement.

In its Statement of Claim, which the liquidator served in July 2015, the liquidator alleges, among other things, that GIS Europe breached its contractual duties to DD Growth as well as an alleged duty of care to DD Growth, and to investors in DD Growth, and makes claims of breach of the administration and accounting services agreement, breach of the middle office agreement, negligence, gross negligence, and breach of duty. The statement of claim further alleges claims for loss in the net asset value of the fund and loss of certain subscriptions paid into the fund in the amounts of \$283 million and \$134 million respectively. The statement of claim seeks, among other things, damages, costs, and interest.

Other Regulatory and Governmental Inquiries

We are the subject of investigations, audits, examinations and other forms of regulatory and governmental inquiry covering a broad range of issues in our consumer, mortgage, brokerage, securities and other financial services businesses, as well as other aspects of our operations. In some cases, these inquiries are part of reviews of specified activities at multiple industry participants; in others, they are directed at PNC individually. From time to time, these inquiries involve or lead to regulatory enforcement actions and other administrative proceedings, and may lead to civil or criminal judicial proceedings. Some of these inquiries result in remedies including fines, penalties, restitution, or alterations in our business practices, and in additional expenses and collateral costs and other consequences. Such remedies and other consequences are not typically material to us from a financial standpoint, but may be and, even if not, may result in significant reputational harm or other adverse collateral consequences.

In April 2011, as a result of a publicly-disclosed interagency horizontal review of residential mortgage servicing operations at fourteen federally regulated mortgage servicers, The PNC Financial Services Group, Inc. entered into a consent order with the Board of Governors of the Federal Reserve System and PNC Bank entered into a consent order with the Office of the Comptroller of the Currency. Collectively, these consent orders describe certain foreclosure-related practices and controls that the regulators found to be deficient and require The PNC Financial Services Group, Inc. and PNC Bank to, among other things, develop and implement plans and programs to enhance our residential mortgage servicing and foreclosure processes, retain an independent consultant to review certain residential mortgage foreclosure actions, take certain remedial actions, and oversee compliance with the orders and the new plans and programs. In early 2013, The PNC Financial Services Group, Inc. and PNC Bank, along with twelve other residential mortgage servicers, reached agreements with the OCC and the Federal Reserve to amend these consent orders.

In June 2015, the OCC issued an order finding that PNC Bank had satisfied all of its obligations under the OCC's 2013 amended consent order and terminating PNC Bank's 2011 consent order and 2013 amended consent order.

In January 2018, the Federal Reserve issued an order terminating The PNC Financial Services Group, Inc.'s 2011 consent order and 2013 amended consent order. In connection with this termination, the Federal Reserve assessed a \$3.5 million civil money penalty against The PNC Financial Services Group, Inc.

• We received subpoenas from the U.S. Attorney's Office for the Southern District of New York. The first two subpoenas, served in 2011, concern National City Bank's lending practices in connection with loans insured by the Federal Housing Administration (FHA) as well as certain non-FHA-insured loan origination, sale and securitization practices. A third, served in 2013, seeks information regarding claims for costs that are incurred by foreclosure counsel in connection with the foreclosure of loans insured or guaranteed by FHA, FNMA or FHLMC. We are cooperating with the investigations.

Our practice is to cooperate fully with regulatory and governmental investigations, audits and other inquiries, including those described in this Note 19.

<u>Other</u>

In addition to the proceedings or other matters described above, PNC and persons to whom we may have indemnification obligations, in the normal course of business, are subject to various other pending and threatened legal proceedings in which claims for monetary damages and other relief are asserted. We do not anticipate, at the present time, that the ultimate aggregate liability, if any, arising out of such other legal proceedings will have a material adverse effect on our financial position. However, we cannot now determine whether or not any claims asserted against us or others to whom we may have indemnification obligations, whether in the proceedings or other matters described above or otherwise, will have a material adverse effect on our results of operations in any future reporting period, which will depend on, among other things, the amount of the loss resulting from the claim and the amount of income otherwise reported for the reporting period.

NOTE 20 COMMITMENTS

In the normal course of business, we have various commitments outstanding, certain of which are not included on our Consolidated Balance Sheet. The following table presents our outstanding commitments to extend credit along with significant other commitments as of December 31, 2017 and December 31, 2016, respectively.

Table 98: Commitments to Extend Credit and OtherCommitments

	_			
In millions	D	ecember 31 2017	De	ecember 31 2016
Commitments to extend credit				
Total commercial lending	\$	112,125	\$	108,256
Home equity lines of credit		17,852		17,438
Credit card		24,911		22,095
Other		4,753		4,192
Total commitments to extend credit		159,641		151,981
Net outstanding standby letters of credit (a)		8,651		8,324
Reinsurance agreements (b)		1,654		1,835
Standby bond purchase agreements (c)		843		790
Other commitments (d)		1,732		967
Total commitments to extend credit and other commitments	\$	172,521	\$	163,897

(a) Net outstanding standby letters of credit include \$3.5 billion and \$3.9 billion at December 31, 2017 and December 31, 2016, respectively, which support remarketing programs.

- (b) Represents aggregate maximum exposure up to the specified limits of the reinsurance contracts provided by our wholly-owned captive insurance subsidiary. These amounts reflect estimates based on availability of financial information from insurance carriers. As of December 31, 2017, the aggregate maximum exposure amount comprised \$1.5 billion for accidental death & dismemberment contracts and \$.2 billion for credit life, accident & health contracts. Comparable amounts at December 31, 2016 were \$1.5 billion and \$.3 billion, respectively.
- (c) We enter into standby bond purchase agreements to support municipal bond obligations.
- (d) Includes \$.5 billion related to investments in qualified affordable housing projects at both December 31, 2017 and December 31, 2016.

Commitments to Extend Credit

Commitments to extend credit, or net unfunded loan commitments, represent arrangements to lend funds or provide liquidity subject to specified contractual conditions. These commitments generally have fixed expiration dates, may require payment of a fee, and contain termination clauses in the event the customer's credit quality deteriorates.

Net Outstanding Standby Letters of Credit

We issue standby letters of credit and share in the risk of standby letters of credit issued by other financial institutions, in each case to support obligations of our customers to third parties, such as insurance requirements and the facilitation of transactions involving capital markets product execution. Approximately 91% and 94% of our net outstanding standby letters of credit were rated as Pass as of December 31, 2017 and December 31, 2016, respectively, with the remainder rated as Below Pass. An internal credit rating of Pass indicates the expected risk of loss is currently low, while a rating of Below Pass indicates a higher degree of risk.

If the customer fails to meet its financial or performance obligation to the third party under the terms of the contract or there is a need to support a remarketing program, then upon a draw by a beneficiary, subject to the terms of the letter of credit, we would be obligated to make payment to them. The standby letters of credit outstanding on December 31, 2017 had terms ranging from less than one year to seven years.

As of December 31, 2017, assets of \$1.3 billion secured certain specifically identified standby letters of credit. In addition, a portion of the remaining standby letters of credit issued on behalf of specific customers is also secured by collateral or guarantees that secure the customers' other obligations to us. The carrying amount of the liability for our obligations related to standby letters of credit and participations in standby letters of credit was \$.2 billion at December 31, 2017 and is included in Other liabilities on our Consolidated Balance Sheet.

NOTE 21 PARENT COMPANY

On August 23, 2016, PNC Funding Corp, a wholly-owned indirect non-bank subsidiary of the parent company, was merged into the parent company with all assets and liabilities transferred to the parent company at historical cost. As a result, the summarized financial information for all periods is presented in the following tables on a combined basis.

Summarized financial information of the parent company is as follows:

Table 99: Parent Company – Income Statement

Year ended December 31 – in millions	2017	2016	2015
Operating Revenue			
Dividends from:			
Bank subsidiaries and bank holding company	\$3,278	\$2,906	\$3,110
Non-bank subsidiaries	376	130	49
Interest income	109	93	82
Noninterest income	37	13	56
Total operating revenue	3,800	3,142	3,297
Operating Expense			
Interest expense	215	197	193
Other expense	175	109	89
Total operating expense	390	306	282
Income before income taxes and equity in undistributed net income of subsidiaries	3,410	2,836	3,015
Income tax benefits	(52)	(96)	(98)
Income before equity in undistributed net income of subsidiaries	3,462	2,932	3,113
Equity in undistributed net income of subsidiaries:			
Bank subsidiaries and bank holding company	1,974	818	736
Non-bank subsidiaries	(98)	153	257
Net income	\$5,338	\$3,903	\$4,106
Other comprehensive income, net of tax:			
Net pension and other postretirement benefit plan activity arising during the period	1	13	(3)
Other comprehensive income (loss)	1	13	(3)
Comprehensive income	\$5,339	\$3,916	\$4,103

Table 100: Parent Company – Balance Sheet

December 31 – in millions	 2017	2016
Assets		
Cash held at banking subsidiary	\$ 1	\$ 1
Restricted deposits with banking subsidiary	175	175
Nonrestricted interest-earning deposits	5,800	4,684
Investments in:		
Bank subsidiaries and bank holding company	44,360	42,361
Non-bank subsidiaries	2,398	2,859
Loans with affiliates	1,244	1,358
Other assets	1,243	1,322
Total assets	\$ 55,221	\$ 52,760
Liabilities		
Subordinated debt (a)	\$ 1,645	\$ 2,242
Senior debt (a)	5,203	3,959
Commercial paper	100	
Other borrowed funds from affiliates	108	223
Accrued expenses and other liabilities	652	637
Total liabilities	7,708	7,061
Equity		
Shareholders' equity	47,513	45,699
Total liabilities and equity	\$ 55,221	\$ 52,760

(a) See Note 10 Borrowed Funds for additional information on contractual rates and maturity dates of senior debt and subordinated debt for parent company.

In connection with certain affiliates' commercial and residential mortgage servicing operations, the parent company has committed to maintain such affiliates' net worth above minimum requirements.

Table 101: Parent Company – Interest Paid and Income TaxRefunds (Payments)

Year ended December 31 – in millions	Interest Paid	ncome Tax Refunds / Payments)
2017	\$ 287	\$ 40
2016	\$ 317	\$ 183
2015	\$ 404	\$ 64

Table 102: Parent Company – Statement of Cash Flows

Year ended December 31 – in millions	2017	2016	2015
Operating Activities			
Net income	\$ 5,338	\$ 3,903	\$ 4,106
Adjustments to reconcile net income to net cash provided by operating activities:			
Equity in undistributed net earnings of subsidiaries	(1,974)	(971)	(993)
Return on investment in subsidiary	98		
Other	194	143	149
Net cash provided (used) by operating activities	3,656	3,075	3,262
Investing Activities			
Net change in loans and securities from affiliates	114	2,161	(185)
Net change in restricted deposits with banking subsidiary		(175)	400
Net change in nonrestricted interest-earning deposits	(1,116)	(1,607)	3,244
Net change in restricted interest-earning deposits		300	(300)
Other		266	(82)
Net cash provided (used) by investing activities	(1,002)	945	3,077
Financing Activities			
Net change in other borrowed funds from affiliates	316	(124)	(100)
Net change in senior debt	1,325	(1,252)	(1,888)
Net change in subordinated debt	(580)	17	(580)
Net change in commercial paper	100		
Preferred stock issuances		519	
Preferred stock redemptions			(500)
Common and treasury stock issuances	132	151	139
Acquisition of treasury stock	(2,447)	(2,062)	(2,152)
Preferred stock cash dividends paid	(236)	(209)	(219)
Common stock cash dividends paid	(1,264)	(1,060)	(1,039)
Net cash provided (used) by financing activities	(2,654)	(4,020)	(6,339)
Cash held at banking subsidiary at beginning of year	1	1	1
Cash held at banking subsidiary at end of year	\$ 1	\$ 1	\$ 1

NOTE 22 SEGMENT REPORTING

Effective for the first quarter of 2017, as a result of changes to how we manage our businesses, we realigned our segments and, accordingly, have changed the basis of presentation of our segments, resulting in four reportable business segments:

- Retail Banking
- Corporate & Institutional Banking
- Asset Management Group
- BlackRock

Results of individual businesses are presented based on our internal management reporting practices. There is no comprehensive, authoritative body of guidance for management accounting equivalent to GAAP; therefore, the financial results of our individual businesses are not necessarily comparable with similar information for any other company. We periodically refine our internal methodologies as management reporting practices are enhanced. To the extent significant and practicable, retrospective application of new methodologies is made to prior period reportable business segment results and disclosures to create comparability with the current period.

Net interest income in business segment results reflects our internal funds transfer pricing methodology. Assets receive a funding charge and liabilities and capital receive a funding credit based on a transfer pricing methodology that incorporates product repricing characteristics, tenor and other factors. Effective for the first quarter of 2017, we made certain adjustments to our internal funds transfer pricing methodology primarily relating to weighted average lives of certain nonmaturity deposits based on our recent historical experience. These changes in methodology affected business segment results, primarily adversely impacting net interest income for Corporate & Institutional Banking and Retail Banking, offset by increased net interest income in the "Other" category.

All prior periods presented were revised to conform to the new segment alignment and to our change in internal funds transfer pricing methodology.

Our business segment results reflect the allocation of the impact of the new tax legislation to our business segments, primarily the revaluation of the net deferred tax positions allocated to the segments. Certain tax legislation amounts are considered reasonable estimates as of December 31, 2017. See Note 17 Income Taxes for additional details.

Total business segment financial results differ from total consolidated net income. The impact of these differences is reflected in the "Other" category in the business segment tables. "Other" includes residual activities that do not meet the criteria for disclosure as a separate reportable business, such as asset and liability management activities including net securities gains or losses, other-than-temporary impairment of investment securities, certain trading activities, certain nonstrategic runoff consumer loan portfolios, private equity investments, intercompany eliminations, most corporate overhead, tax adjustments that are not allocated to business segments, gains or losses related to BlackRock transactions, integration costs, exited businesses, and differences between business segment performance reporting and financial statement reporting (GAAP), including the presentation of net income attributable to noncontrolling interests as the segments' results exclude their portion of net income attributable to noncontrolling interests. Assets, revenue and earnings attributable to foreign activities were not material in the periods presented for comparative purposes.

Financial results are presented, to the extent practicable, as if each business operated on a stand-alone basis. Additionally, we have aggregated the results for corporate support functions within "Other" for financial reporting purposes.

Our allocation of the costs incurred by shared support areas not directly aligned with the businesses is primarily based on the use of services.

A portion of capital is intended to cover unexpected losses and is assigned to our business segments using our risk-based economic capital model, including consideration of the goodwill at those business segments as well as the diversification of risk among the business segments, ultimately reflecting our portfolio risk adjusted capital allocation.

We have allocated the allowances for loan and lease losses and for unfunded loan commitments and letters of credit based on the loan exposures within each business segment's portfolio. Key reserve assumptions and estimation processes react to and are influenced by observed changes in loan portfolio performance experience, the financial strength of the borrower and economic conditions. Key reserve assumptions are periodically updated.

Business Segment Products and Services

Retail Banking provides deposit, lending, brokerage, insurance services, investment management and cash management services to consumer and small business customers within our primary geographic markets. Our customers are serviced through our branch network, ATMs, call centers, online banking and mobile channels. The branch network is located primarily in Pennsylvania, Ohio, New Jersey, Michigan, Illinois, Maryland, Indiana, Florida, North Carolina, Kentucky, Washington, D.C., Delaware, Virginia, Georgia, Alabama, Missouri, Wisconsin and South Carolina. Deposit products include checking, savings and money market accounts and certificates of deposit. Lending products include residential mortgages, home equity loans and lines of credit, auto loans, credit cards, education loans and personal and small business loans and lines of credit. The residential mortgage loans are directly originated within our branch network and nationwide, and are typically underwritten to government agency and/or third-party standards, and either sold, servicing retained, or held on our balance sheet. Brokerage, investment management and cash management products and services include managed, education, retirement and trust accounts.

Corporate & Institutional Banking provides lending, treasury management, and capital markets-related products and services to mid-sized and large corporations, and government and not-for-profit entities. Lending products include secured and unsecured loans, letters of credit and equipment leases. Treasury management services include cash and investment management, receivables management, disbursement services, funds transfer services, information reporting and global trade services. Capital markets-related products and services include foreign exchange, derivatives, securities underwriting, loan syndications, mergers and acquisitions advisory and equity capital markets advisory related services. We also provide commercial loan servicing and technology solutions for the commercial real estate finance industry. Products and services are provided nationally. We offer certain products and services internationally.

Asset Management Group provides personal wealth management for high net worth and ultra high net worth clients and institutional asset management. Wealth management products and services include investment and retirement planning, customized investment management, private banking, tailored credit solutions, and trust management and administration for individuals and their families. Our Hawthorn unit provides multi-generational family planning including estate, financial, tax planning, fiduciary, investment management and consulting, private banking, personal administrative services, asset custody and customized performance reporting to ultra high net worth families. Institutional asset management provides advisory, custody and retirement administration services. The business also offers PNC proprietary mutual funds. Institutional clients include corporations, unions, municipalities, non-profits, foundations and endowments, primarily located in our geographic footprint.

BlackRock, in which we hold an equity investment, is a leading publicly-traded investment management firm providing a broad range of investment, risk management and technology services to institutional and retail clients worldwide. Using a diverse platform of active and index investment strategies across asset classes, BlackRock develops investment outcomes and asset allocation solutions for clients. Product offerings include single- and multi-asset class portfolios investing in equities, fixed income, alternatives and money market instruments. BlackRock also offers an investment and risk management technology platform, risk analytics, advisory and technology services and solutions to a broad base of institutional and wealth management investors.

Our equity investment in BlackRock provides us with an additional source of noninterest income and increases our overall revenue diversification. BlackRock is a publicly-traded company, and additional information regarding its business is available in its filings with the Securities and Exchange Commission (SEC). At December 31, 2017, our economic interest in BlackRock was 22%. We received cash dividends from BlackRock of \$354 million, \$331 million, and \$320 million during 2017, 2016, and 2015, respectively.

Table 103: Results of Businesses

INCOME STATEMENT Net interest income S 4,02 S 3,30 2,237 S 2,071 S 8,00 S 9,108 Noninterest income 2,236 2,271 S S 1,078 1,555 1,6329 Total revenue 6,861 5,667 1,168 1,078 1,555 16,329 Provision for credit losses (benefit) 3,477 1848 50 1,078 1,146 9,477 Income (loss) before income taxes (benefit) and moncouncolling interests (benefit) 3,079 3,04 1,078 (4.4) 1,043 5,490 Income (loss) before income taxes (benefit) 5,538 2,464 5,202 5,164 4,402 102 Net income 5,503 2,464 5,202 5,164 5,388 3,317,69 2,516 3,17,69 Noninterest income 5,803 2,464 5,070 5,138 5,193 5,116 5,138 3,17,69 4,11 5,138 3,17,69 2,116 5,166 5,137 6,517 6,51,		 							
INCOME STATEMENT Net interest income S 4,02 S 3,30 S 2,87 S 8,00 S 9,108 Noninterest income 2,236 2,271 S S 1,078 7,721 Total revenue 6,861 5,667 1,168 1,078 1,555 16,329 Provision for credit losses (benefit) 3,477 1844 50 1,146 9,477 Income (loss) before income taxes (benefit) and montziation 1,063 3,079 3,04 1,078 4,42 1020 Income taxes (benefit) 5,538 6,155 1020 6,686 (462) 1020 Net income 5 503 2,444 \$ 7,677 \$ 19,504 \$ 3,7170 Not interest income \$ 8303 2,464 \$ 2020 \$ 1,054 \$ 8,3191 Noninterest income \$ 4,079 \$ 3,31769 \$ 1,0151 \$ 6,653 5,071 \$ 8,3191 <th></th> <th></th> <th>Institutional</th> <th>М</th> <th>anagement</th> <th>BlackRock</th> <th>Other</th> <th>Co</th> <th>onsolidated (a)</th>			Institutional	М	anagement	BlackRock	Other	Co	onsolidated (a)
Net interest income \$ 4,625 \$ 3,396 \$ 2,87 \$ 8,000 \$ 9,108 Noninterst income 2,236 2,271 8,81 \$ 1,078 7,55 7,221 Total revenue 6,861 5,667 1,168 1,078 1,555 16,329 Provision for credit losses (benefit) 347 160 1 (67) 441 Depreciation and amorization 1,77 184 50 510 921 Other noninterest expense 5,274 2,244 813 1,146 9,477 Income (loss) before income taxes (benefit) and noncome taxes (benefit) 533 615 102 (686) 142 102 Net income \$ 8,50 \$ 1,444 \$ 7,677 \$ 19,504 \$ 3,379 Noti rest income \$ 4,509 \$ 3,181 \$ 300 \$ \$ 411 \$ 8,391 Noti rest income \$ 4,029	2017								
Noninterest income 2.236 2.271 881 8 1.078 7.55 7.221 Total revenue 6.801 5.667 1.184 1.078 1.555 16.329 Provision for credit losses (benefit) 347 160 1 510 921 Other noninterest expense 5.274 2.244 813 - 1.146 9.477 Income (tass (benefit) and noncontrolling interests 1.063 3.079 304 1.078 3.42 5.338 Average Assets (b) \$ 5.330 \$ 2.464 \$ 202 \$ 1.764 \$ 8.371.69 2016 100 \$ 8.8.63 \$ 1.48.14 \$ 7.511 \$ 6.85 5.078 \$ 3.71.69 2016 100 \$ 2.633 2.035 8.51 \$ 6.85 5.078 \$ 6.771 Total revenue 7.202 5.216 1.151 6.85 5.078 \$ 8.391 Nonin	INCOME STATEMENT								
Total revenue 6.861 5.667 1.168 1.078 1.555 16.329 Provision for credit losses (benefit) 347 160 1 (67) 441 Depreciation and amortization 177 184 50 510 921 Other noninterest expense 5.274 2.244 813 1.146 9.477 Income (loss) before income taxes (benefit) and noncontrolling interests 1.063 3.079 304 1.078 (34) 5.490 Income taxes (benefit) 533 615 102 (686) (462) 102 Net income\$ 88.663\$ 148.14\$ 7.677\$ 119.504\$ 428\$ 5.388Average Assets (b)\$ 88.663\$ 148.414\$ 7.677\$ 119.504\$ 8.5391Other toninterest income\$ 4.509\$ 3.181\$ 300\$ 401\$ 8.391Noninterest income\$ 4.509\$ 3.181\$ 300\$ 401\$ 8.391Noninterest income\$ 4.509\$ 3.181\$ 300\$ 401\$ 8.391Noninterest expense 5.116 2.069 780 668 8.633 Income taxes (benefit) 297 177 60 311 \$ 3.985Income taxes (benefit) and noncontrolling interests 1.614 2.817 332 685 (195) 5.253 Income taxes (benefit) 591 908 1.22 153 (500) 1.268 Net income\$ 4.306\$ 3.144 \$ 292 \$ 536 \$ 8.278 Net inc	Net interest income	\$ 4,625	\$ 3,396	\$	287		\$ 800	\$	9,108
Provision for credit losses (benefit) 347 160 1 (67) 441 Depreciation and amortization 177 184 50 510 921 Other noninterest expense 5,274 2,244 813 1,166 9,477 Income (loss) before income taxes (benefit) and noncontrolling interests 1,063 3,079 504 1,078 424 5,490 Income taxes (benefit) 533 615 102 (68) (462) 100 Net income \$ 5,00 \$ 2,464 \$ 2020 \$ 1,076 \$ 428 \$ 5,388 Average Assets (b) \$ 88,663 \$ 148,414 \$ 7,511 \$ 7,677 \$ 119,504 \$ 371,769 2016 INCOME STATEMENET INCOME STATEMENET \$ 4,509 \$ 3,181 \$ 300 \$ 401 \$ 8,391 Noninterest income 2,693 2,035 \$ 1,51 685 5007 6,771 Total revenue 7,202 5,216 1,151 685 5098 5,333 Depreciation and amortization 175 153 45 470 8433 Other noninterest expense	Noninterest income	2,236	2,271		881	\$ 1,078	755		7,221
Depreciation and amortization 177 184 50 510 921 Other noninterest expense 5,274 2,244 813 1,163 9,477 Income (noss) before income taxes (benefit) and noncontrolling interests 533 615 1,02 (666) (462) 102 Net income \$ 350 \$ 2,444 \$ 2025 \$ 1,764 \$ 33779 \$ 1,864 \$ 2025 \$ 4,843 \$ 5,388 Nerage Assets (b) \$ 8,8663 \$ 148,414 \$ 7,511 \$ 7,677 \$ 19,504 \$ 371,769 2016 Income (ss) (so (ss) (ss) (ss) (ss) (ss) (ss)	Total revenue	6,861	5,667		1,168	1,078	1,555		16,329
Ohr noninterest expense 5,274 2,244 813 1,146 9,477 Income (loss) before income taxes (benefit) and noncontrolling interests 1,063 3,079 304 1,078 (43) 5,490 Income taxes (benefit) 533 615 102 (686) (462) 102 Net income \$ 300 \$ 2,2464 \$ 202 \$ 1,764 \$ 428 \$ 5,388 Average Assets (b) \$ 8,863 \$ 148,414 \$ 7,511 \$ 7,677 \$ 149,504 \$ 3,71769 Notinterest income 2,693 2,035 8,815 \$ 685 507 6,771 Noninterest income 2,693 2,035 8,81 \$ 401 \$ 8,433 Depreciation and amorization 7,702 5,216 1,151 685 5007 6,771 Total revenue 7,202 5,216 1,151 685 5008 15,162 Provision for credit losses (benefit) 297 177 (6) (35) 433 Income taxes (benefit) 1,614 2,817	Provision for credit losses (benefit)	347	160		1		(67)		441
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Depreciation and amortization	177	184		50		510		921
noncontrolling interests 1.063 3.079 304 1.078 (34) 5.490 Income taxes (benefit) 533 615 102 (686) (462) 102 Net income \$530 \$2,464 \$7,511 \$7,677 \$119,504 \$371,769 Net income \$88,663 \$148,414 \$7,511 \$7,677 \$119,504 \$371,769 2016 \$3,7679 \$119,504 \$371,769 Net interest income \$2,693 \$2,035 \$851 \$685 \$007 6,771 Total revenue 7,202 \$2,161 1,151 685 908 15,162 Provision for credit losses (benefit) 297 177 (6) .668 \$6,633 Income (loss) before income taxes (benefit) and noncritzation 11,614 2,817 332 685 (195) \$2,253 Income taxes (benefit) \$1,023 \$1909 \$210 \$532 \$311 \$394,985 Average Assets (b) \$8,871 \$140,309 \$7,777	Other noninterest expense	5,274	2,244		813		1,146		9,477
Net income \$ 530 \$ 2,464 \$ 202 \$ 1,764 \$ 428 \$ 5,388 Average Assets (b) \$ 88,663 \$ 148,414 \$ 7,511 \$ 7,677 \$ 119,504 \$ 371,769 2016 INCOME STATEMENT Not interest income \$ 4,509 \$ 3,181 \$ 300 \$ 401 \$ 8,391 Noninterest income 2,693 2,035 851 \$ 685 507 6,771 Total revenue 7,202 5,216 1,151 685 908 15,162 Provision for credit losses (benefit) 297 177 (6) (35) 433 Depreciation and amortization 175 153 45 470 8433 Income (loss) before income taxes (benefit) and noncontrolling interests 1,614 2,817 332 685 (195) 5,253 Income taxes (benefit) 591 908 122 153 (506) 1,268 Net income \$ 1,023 \$ 1,909 \$ 7,707 \$ 7,118 120,255 \$ 361,260 210 \$ 532 \$ 311<	Income (loss) before income taxes (benefit) and noncontrolling interests	1,063	3,079		304	1,078	(34)		5,490
Average Assets (b) \$ 88,663 \$ 148,414 \$ 7,511 \$ 7,677 \$ 119,504 \$ 371,769 2016 INCOME STATEMENT Income \$ 4,509 \$ 3,181 \$ 300 \$ 401 \$ 8,391 Noninterest income 2,693 2,035 851 \$ 685 507 6,771 Total revenue 7,202 5,216 1,151 685 908 15,162 Provision for credit losses (benefit) 297 177 (6) (35) 433 Depreciation and amoritzation 175 153 45 470 8433 Income (loss) before income taxes (benefit) and noncontrolling interests 1,614 2,817 332 685 (195) 5,253 Income taxes (benefit) 591 908 122 153 (506) 1,268 Net income \$ 1,023 \$ 1,909 \$ 7,707 \$ 7,118 \$ 120,255 \$ 361,260 2015 Total revenue 7,087 \$ 0,911 1,161 717 633 6,947 Noninterest income	Income taxes (benefit)	533	615		102	(686)	(462)		102
2016 1 <th1< th=""> 1 <th1< th=""> <th1< th=""></th1<></th1<></th1<>	Net income	\$ 530	\$ 2,464	\$	202	\$ 1,764	\$ 428	\$	5,388
INCOME STATEMENT Noninterest income \$ 4,69 \$ 3,181 \$ 300 \$ 401 \$ 8,391 Noninterest income 2,693 2,035 851 \$ 665 507 6,771 Total revenue 7,202 2,035 8,511 \$ 685 908 15,162 Provision for credit losses (benefit) 297 1,717 (6) 433 Depreciation and amortization 1,715 1,513 455 470 843 Income (loss) before income taxes (benefit) and noncontrolling interests 5,116 2,817 332 685 (195) 5,253 Income taxes (benefit) 591 908 1,22 1,513 \$ 3,014 \$ 3,02 \$ 3,11 \$ 3,985 Average Assets (b) \$ 8,5,71 \$ 1,40,309 \$ 7,707 \$ 7,118 \$ 1,20,255 \$ 3,61,260 Noninterest income 2,781 1,947 869	Average Assets (b)	\$ 88,663	\$ 148,414	\$	7,511	\$ 7,677	\$ 119,504	\$	371,769
Net interest income \$ 4,509 \$ 3,181 \$ 300 \$ 401 \$ 8,391 Noninterest income 2,693 2,035 851 \$ 685 507 6,771 Total revenue 7,202 5,216 1,151 685 908 15,162 Provision for credit losses (benefit) 297 177 (6) (35) 433 Depreciation and amortization 175 153 45 470 843 Other noninterest expense 5,116 2,069 780 668 8,633 Income (loss) before income taxes (benefit) and noncontrolling interests 1,614 2,817 332 685 (195) 5,253 Income taxes (benefit) 591 908 122 153 (506) 1,268 Net income \$ 1,023 \$ 1,4030 \$ 7,118 \$ 20,255 \$ 361,260 2015 1,614 2,817 332 \$ 7,11 \$ 363,266 361,260 2015 2,781 1,4030	2016								
Noninterest income 2,693 2,035 851 \$ 685 507 6,771 Total revenue 7,202 5,216 1,151 685 908 15,162 Provision for credit losses (benefit) 297 177 (6) (35) 433 Depreciation and amortization 175 153 45 470 843 Other noninterest expense 5,116 2,069 780 668 8,633 Income (loss) before income taxes (benefit) and noncontrolling interests 1,614 2,817 332 685 (195) 5,253 Income taxes (benefit) 591 908 122 153 (506) 1,268 Net income \$ 1,023 \$ 1,909 \$ 210 \$ 532 \$ 361,260 2015 1,023 \$ 140,309 \$ 7,707 \$ 7,118 \$ 120,255 \$ 361,260 2015 1,023 \$ 140,309 <td< td=""><td>INCOME STATEMENT</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	INCOME STATEMENT								
Total revenue 7,202 5,216 1,151 685 908 15,162 Provision for credit losses (benefit) 297 177 (6) (35) 433 Depreciation and amortization 175 153 45 470 843 Other noninterest expense 5,116 2,069 780 668 8,633 Income (loss) before income taxes (benefit) and noncontrolling interests 1,614 2,817 332 685 (195) 5,253 Income taxes (benefit) 591 908 122 153 (506) 1,268 Net income \$ 1,023 \$ 1,909 \$ 210 \$ 532 \$ 311 \$ 3,985 Average Assets (b) \$ 85,871 \$ 140,309 \$ 7,707 \$ 7,118 \$ 120,255 \$ 361,260 2015 Income taxes (benefit) \$ 2,781 1,40309 \$ 7,177 \$ 5,163 \$,9478 5,045 \$,9478	Net interest income	\$ 4,509	\$ 3,181	\$	300		\$ 401	\$	8,391
Provision for credit losses (benefit) 297 177 (6) (35) 433 Depreciation and amortization 175 153 45 470 843 Other noninterest expense 5,116 2,069 780 668 8,633 Income (loss) before income taxes (benefit) and noncontrolling interests 1,614 2,817 332 685 (195) 5,253 Income taxes (benefit) 591 908 122 153 (506) 1,268 Net income \$ 1,023 \$ 140,309 \$ 7,707 \$ 7,118 \$ 3,985 Average Assets (b) \$ 85,871 \$ 140,309 \$ 7,707 \$ 7,118 \$ 120,255 \$ 361,260 2015 Income \$ 4,306 \$ 3,144 \$ 292 \$ \$ 536 \$ 8,278 Noninterest income \$ 4,306 \$ 3,144 \$ 292 \$ \$ 536 \$ 8,278 Noninterest income \$ 7,087 5,091 </td <td>Noninterest income</td> <td>2,693</td> <td>2,035</td> <td></td> <td>851</td> <td>\$ 685</td> <td>507</td> <td></td> <td>6,771</td>	Noninterest income	2,693	2,035		851	\$ 685	507		6,771
Depreciation and amortization 175 153 45 470 843 Other noninterest expense 5,116 2,069 780 668 8,633 Income (loss) before income taxes (benefit) and noncontrolling interests 1,614 2,817 332 685 (195) 5,253 Income (loss) before income taxes (benefit) 591 908 122 153 (506) 1,268 Net income \$ 1,023 \$ 1,909 \$ 210 \$ 532 \$ 311 \$ 3,985 Average Assets (b) \$ 85,871 \$ 140,309 \$ 7,707 \$ 7,118 \$ 120,255 \$ 361,260 2015 T 4306 \$ 3,144 \$ 292 \$ 536 \$ 8,278 Noninterest income 2,781 1,947 869 \$ 717 633 6,947 Total revenue 7,087 5,091 1,161 717 1,169 15,225	Total revenue	7,202	5,216		1,151	685	908		15,162
Other noninterest expense 5,116 2,069 780 668 8,633 Income (loss) before income taxes (benefit) and noncontrolling interests 1,614 2,817 332 685 (195) 5,253 Income taxes (benefit) 591 908 122 153 (506) 1,268 Net income \$ 1,023 \$ 1909 \$ 7,707 \$ 7,118 \$ 3,985 Average Assets (b) \$ 85,871 \$ 140,309 \$ 7,707 \$ 7,118 \$ 120,255 \$ 361,260 2015 Income taxes (benefit) \$ 85,871 \$ 140,309 \$ 7,707 \$ 7,118 \$ 120,255 \$ 361,260 2015 Income taxes (benefit) \$ 8,378 \$ 140,309 \$ 7,707 \$ 7,118 \$ 120,255 \$ 361,260 2015 Income taxes (benefit) 2,781 1,947 869 \$ 717	Provision for credit losses (benefit)	297	177		(6)		(35)		433
Income (loss) before income taxes (benefit) and noncontrolling interests $1,614$ $2,817$ 332 685 (195) $5,253$ Income taxes (benefit) 591 908 122 153 (506) $1,268$ Net income\$ $1,023$ \$ $1,909$ \$ 210 \$ 532 \$ 311 \$ $3,985$ Average Assets (b)\$ $85,871$ \$ $140,309$ \$ $7,707$ \$ $7,118$ \$ $120,255$ \$ $361,260$ 2015 $7,707$ \$ $7,118$ \$ $120,255$ \$ $361,260$ 2015 $7,707$ \$ $7,118$ \$ $120,255$ \$ $361,260$ 2015 $7,707$ \$ $7,118$ \$ $120,255$ \$ $361,260$ 2015 $7,707$ \$ $7,118$ \$ $120,255$ \$ $361,260$ 2015 $7,707$ \$ $7,118$ \$ $120,255$ \$ $361,260$ 2015 $7,707$ \$ $7,118$ \$ $120,255$ \$ $361,260$ 2015 $7,707$ \$ $7,118$ \$ $120,255$ \$ $361,260$ 2015 $7,707$ \$ $7,118$ \$ $120,255$ \$ $361,260$ 2015 $7,707$ \$ $7,118$ \$ $120,255$ \$ $361,260$ $7,077$ $7,707$ \$ $7,177$ $6,33$ $6,947$ Total revenue $7,087$ $5,091$ $1,161$ 717 $1,69$ 557 Provision for credit	Depreciation and amortization	175	153		45		470		843
noncontrolling interests 1,614 2,817 332 685 (195) 5,553 Income taxes (benefit) 591 908 122 153 (506) 1,268 Net income \$ 1,023 \$ 1,909 \$ 210 \$ 532 \$ 311 \$ 3,985 Average Assets (b) \$ 85,871 \$ 140,309 \$ 7,707 \$ 7,118 \$ 120,255 \$ 361,260 2015 5 84,306 \$ 3,144 \$ 292 \$ 536 \$ 8,278 Noninterest income 2,781 1,947 869 \$ 717 633 6,947 Total revenue 7,087 5,091 1,161 717 1,169 15,225 Provision for credit losses (benefit) 253 78 9 (85) 255 Depreciation and amortization 187 149 44 429 809 Other noninterest expense<	Other noninterest expense	5,116	2,069		780		668		8,633
Net income \$ 1,023 \$ 1,009 \$ 210 \$ 532 \$ 311 \$ 3,985 Average Assets (b) \$ 85,871 \$ 140,309 \$ 7,707 \$ 7,118 \$ 120,255 \$ 361,260 2015 INCOME STATEMENT Income \$ 4,306 \$ 3,144 \$ 292 \$ 536 \$ 8,278 Noninterest income \$ 4,306 \$ 3,144 \$ 292 \$ 536 \$ 8,278 Noninterest income \$ 7,087 5,091 1,161 717 633 6,947 Total revenue 7,087 5,091 1,161 717 1,169 15,225 Provision for credit losses (benefit) 253 78 9 (85) 255 Depreciation and amortization 187 149 44 429 809 Other noninterest expense 5,257 2,038 802 557 8,654 Income before income taxes (benefit) and noncontrolling interests 1,390 2,826 306 717 268 5,507 Income taxes (benefit) 506 934 112 169 (357) 1,364 Net income 884 <t< td=""><td>Income (loss) before income taxes (benefit) and noncontrolling interests</td><td>1,614</td><td>2,817</td><td></td><td>332</td><td>685</td><td>(195)</td><td></td><td>5,253</td></t<>	Income (loss) before income taxes (benefit) and noncontrolling interests	1,614	2,817		332	685	(195)		5,253
Average Assets (b) \$ 85,871 \$ 140,309 \$ 7,707 \$ 7,118 \$ 120,255 \$ 361,260 2015 INCOME STATEMENT Net interest income \$ 4,306 \$ 3,144 \$ 292 \$ 536 \$ 8,278 Noninterest income \$ 7,087 5,091 1,161 717 633 6,947 Total revenue 7,087 5,091 1,161 717 1,169 15,225 Provision for credit losses (benefit) 253 78 9 (85) 255 Depreciation and amortization 187 149 44 429 809 Other noninterest expense 5,257 2,038 802 557 8,654 Income before income taxes (benefit) and noncontrolling interests 1,390 2,826 306 717 268 5,507 Income taxes (benefit) 506 934 112 169 (357) 1,364 Net income \$ 884 1,892 194 \$ 548 625 \$ 4,143	Income taxes (benefit)	591	908		122	153	(506)		1,268
2015 INCOME STATEMENT Net interest income \$ 4,306 \$ 3,144 \$ 292 \$ 536 \$ 8,278 Noninterest income 2,781 1,947 869 \$ 717 633 6,947 Total revenue 7,087 5,091 1,161 717 1,169 15,225 Provision for credit losses (benefit) 253 78 9 (85) 255 Depreciation and amortization 187 149 44 429 809 Other noninterest expense 5,257 2,038 802 557 8,654 Income before income taxes (benefit) and noncontrolling interests 1,390 2,826 306 717 268 5,507 Income taxes (benefit) 506 934 112 169 (357) 1,364 Net income \$ 884 \$ 1,892 \$ 194 \$ 548 \$ 625 \$ 4,143	Net income	\$ 1,023	\$ 1,909	\$	210	\$ 532	\$ 311	\$	3,985
INCOME STATEMENT Net interest income \$ 4,306 \$ 3,144 \$ 292 \$ 536 \$ 8,278 Noninterest income 2,781 1,947 869 \$ 717 633 6,947 Total revenue 7,087 5,091 1,161 717 1,169 15,225 Provision for credit losses (benefit) 253 78 9 (85) 255 Depreciation and amortization 187 149 44 429 809 Other noninterest expense 5,257 2,038 802 557 8,654 Income before income taxes (benefit) and noncontrolling interests 1,390 2,826 306 717 268 5,507 Income taxes (benefit) 506 934 112 169 (357) 1,364 Net income \$ 884 1,892 194 548 625 4,143	Average Assets (b)	\$ 85,871	\$ 140,309	\$	7,707	\$ 7,118	\$ 120,255	\$	361,260
Net interest income \$ 4,306 \$ 3,144 \$ 292 \$ 536 \$ 8,278 Noninterest income 2,781 1,947 869 \$ 717 633 6,947 Total revenue 7,087 5,091 1,161 717 1,169 15,225 Provision for credit losses (benefit) 253 78 9 (85) 255 Depreciation and amortization 187 149 44 429 809 Other noninterest expense 5,257 2,038 802 557 8,654 Income before income taxes (benefit) and noncontrolling interests 1,390 2,826 306 717 268 5,507 Income taxes (benefit) 506 934 112 169 (357) 1,364 Net income \$ 884 1,892 194 548 625 4,143	2015								
Noninterest income 2,781 1,947 869 717 633 6,947 Total revenue 7,087 5,091 1,161 717 1,169 15,225 Provision for credit losses (benefit) 253 78 9 (85) 255 Depreciation and amortization 187 149 44 429 809 Other noninterest expense 5,257 2,038 802 557 8,654 Income before income taxes (benefit) and noncontrolling interests 1,390 2,826 306 717 268 5,507 Income taxes (benefit) 506 934 112 169 (357) 1,364 Net income \$ 884 1,892 194 548 625 4,143	INCOME STATEMENT								
Total revenue7,0875,0911,1617171,16915,225Provision for credit losses (benefit)253789(85)255Depreciation and amortization18714944429809Other noninterest expense5,2572,0388025578,654Income before income taxes (benefit) and noncontrolling interests1,3902,8263067172685,507Income taxes (benefit)506934112169(357)1,364Net income\$884\$1,892\$194\$548\$625\$4,143	Net interest income	\$ 4,306	\$ 3,144	\$	292		\$ 536	\$	8,278
Provision for credit losses (benefit) 253 78 9 (85) 255 Depreciation and amortization 187 149 44 429 809 Other noninterest expense 5,257 2,038 802 557 8,654 Income before income taxes (benefit) and noncontrolling interests 1,390 2,826 306 717 268 5,507 Income taxes (benefit) 506 934 112 169 (357) 1,364 Net income \$ 884 \$ 1,892 \$ 194 \$ 548 \$ 625 \$ 4,143	Noninterest income	2,781	1,947		869	\$ 717	633		6,947
Depreciation and amortization 187 149 44 429 809 Other noninterest expense 5,257 2,038 802 557 8,654 Income before income taxes (benefit) and noncontrolling interests 1,390 2,826 306 717 268 5,507 Income taxes (benefit) 506 934 112 169 (357) 1,364 Net income \$ 884 \$ 1,892 \$ 194 \$ 548 \$ 625 \$ 4,143	Total revenue	 7,087	5,091		1,161	717	1,169		15,225
Other noninterest expense 5,257 2,038 802 557 8,654 Income before income taxes (benefit) and noncontrolling interests 1,390 2,826 306 717 268 5,507 Income taxes (benefit) 506 934 112 169 (357) 1,364 Net income \$ 884 \$ 1,892 \$ 194 \$ 548 \$ 625 \$ 4,143	Provision for credit losses (benefit)	253	78		9		(85)		255
Income before income taxes (benefit) and noncontrolling interests 1,390 2,826 306 717 268 5,507 Income taxes (benefit) 506 934 112 169 (357) 1,364 Net income \$ 884 \$ 1,892 \$ 194 \$ 548 \$ 625 \$ 4,143	Depreciation and amortization	187	149		44		429		809
interests 1,390 2,826 306 717 268 5,507 Income taxes (benefit) 506 934 112 169 (357) 1,364 Net income \$ 884 \$ 1,892 \$ 194 \$ 548 \$ 625 \$ 4,143	Other noninterest expense	5,257	2,038		802		557		8,654
Net income \$ 884 \$ 1,892 \$ 194 \$ 548 \$ 625 \$ 4,143	Income before income taxes (benefit) and noncontrolling interests	1,390	2,826		306	717	268		5,507
	Income taxes (benefit)	506	934		112	169	(357)		1,364
Average Assets (b) \$ 86,977 \$ 133,754 \$ 7,920 \$ 6,983 \$ 119,330 \$ 354,964	Net income	\$ 884	\$ 1,892	\$	194	\$ 548	\$ 625	\$	4,143
	Average Assets (b)	\$ 86,977	\$ 133,754	\$	7,920	\$ 6,983	\$ 119,330	\$	354,964

(a) There were no material intersegment revenues for the years ended 2017, 2016 and 2015.

(b) Period-end balances for BlackRock.

NOTE 23 SUBSEQUENT EVENTS

On January 22, 2018, PNC Bank issued the following:

- \$900 million of senior notes with a maturity date of January 22, 2021. Interest is payable semi-annually at a fixed rate of 2.50% per annum on January 22 and July 22 of each year, beginning on July 22, 2018.
- \$700 million of senior notes with a maturity date of January 22, 2028. Interest is payable semi-annually at a fixed rate of 3.25% per annum on January 22 and July 22 of each year, beginning on July 22, 2018.
- \$400 million of senior floating rate notes with a maturity date of January 22, 2021. Interest is payable at the 3-month LIBOR rate reset quarterly, plus a spread of .25%, on January 22, April 22, July 22, and October 22 of each year, beginning on April 22, 2018.

On January 31, 2018, we transferred 103,064 shares of BlackRock Series C Preferred Stock to BlackRock to satisfy a portion of our LTIP obligation. Upon transfer, Other assets and Other liabilities on our Consolidated Balance Sheet were each reduced by \$42 million, representing the fair value of the shares transferred. After this transfer, we hold 143,458 shares of BlackRock Series C Preferred Stock which are available to fund our remaining obligation in connection with the BlackRock LTIP programs.

STATISTICAL INFORMATION (UNAUDITED)

THE PNC FINANCIAL SERVICES GROUP, INC.

SELECTED QUARTERLY FINANCIAL DATA

		20)17		2016							
Dollars in millions, except per share data	Fourth	Third	Second	First	Fourth	Third	Second	First				
Summary of Operations												
Interest income	\$ 2,825	\$ 2,795	\$ 2,674	\$ 2,520	\$ 2,453	\$ 2,408	\$ 2,384	\$ 2,407				
Interest expense	480	450	416	360	323	313	316	309				
Net interest income	2,345	2,345	2,258	2,160	2,130	2,095	2,068	2,098				
Noninterest income	1,915	1,780	1,802	1,724	1,744	1,734	1,726	1,567				
Total revenue	4,260	4,125	4,060	3,884	3,874	3,829	3,794	3,665				
Provision for credit losses	125	130	98	88	67	87	127	152				
Noninterest expense	3,061	2,456	2,479	2,402	2,441	2,394	2,360	2,281				
Income before income taxes (benefit) and noncontrolling interests	1,074	1,539	1,483	1,394	1,366	1,348	1,307	1,232				
Income taxes (benefit) (a)	(1,017)	413	386	320	319	342	318	289				
Net income	2,091	1,126	1,097	1,074	1,047	1,006	989	943				
Less: Net income attributable to noncontrolling interests	11	12	10	17	22	18	23	19				
Preferred stock dividends and discount accretion and redemptions	57	64	57	84	43	64	43	65				
Net income attributable to common shareholders	\$ 2,023	\$ 1,050	\$ 1,030	\$ 973	\$ 982	\$ 924	\$ 923	\$ 859				
Per Common Share Data												
Book value	\$ 91.94	\$ 89.05	\$ 87.78	\$ 86.14	\$ 85.94	\$ 86.57	\$ 85.33	\$ 83.47				
Basic earnings from net income	\$ 4.23	\$ 2.18	\$ 2.12	\$ 1.99	\$ 2.01	\$ 1.87	\$ 1.84	\$ 1.70				
Diluted earnings from net income	\$ 4.18	\$ 2.16	\$ 2.10	\$ 1.96	\$ 1.97	\$ 1.84	\$ 1.82	\$ 1.68				

(a) The fourth quarter 2017 results benefited from the new federal tax legislation. Certain tax legislation amounts are considered reasonable estimates as of December 31, 2017. See the Critical Accounting Estimates and Judgments section in Item 7 of this Report for additional details.

AVERAGE CONSOLIDATED BALANCE SHEET AND NET INTEREST ANALYSIS (a) (b) (c)

		2017	2015						
		Interest	Average		2016 Interest	Average		Interest	Average
Taxable-equivalent basis Dollars in millions	Average Balances	Income/ Expense	Yields/ Rates	Average Balances	Income/ Expense	Yields/ Rates	Average Balances	Income/ Expense	Yields/ Rates
Assets									
Interest-earning assets:									
Investment securities									
Securities available for sale									
Residential mortgage-backed									
Agency	\$ 25,766	\$ 662	2.57%	\$ 25,442	\$ 617	2.43%	\$ 21,371	\$ 540	2.53%
Non-agency	2,851	153	5.37%	3,613	175	4.84%	4,374	207	4.73%
Commercial mortgage-backed	5,193	156	3.00%	6,369	167	2.62%	6,372	195	3.06%
Asset-backed	5,681	147	2.59%	5,741	132	2.30%	5,234	111	2.12%
U.S. Treasury and government agencies	13,178	235	1.78%	10,590	155	1.46%	6,486	79	1.22%
Other	5,083	158	3.11%	5,064	152	3.00%	4,344	146	3.36%
Total securities available for sale	57,752	1,511	2.62%	56,819	1,398	2.46%	48,181	1,278	2.65%
Securities held to maturity									
Residential mortgage-backed	13,049	364	2.79%	10,529	290	2.75%	8,238	251	3.05%
Commercial mortgage-backed	1,255	51	4.06%	1,693	62	3.66%	1,976	75	3.80%
Asset-backed	405	10	2.47%	677	14	2.07%	738	11	1.49%
U.S. Treasury and government agencies	591	18	3.05%	308	11	3.57%	253	10	3.95%
Other	2,005	105	5.24%	2,020	114	5.64%	2,279	119	5.22%
Total securities held to maturity	17,305	548	3.17%	15,227	491	3.22%	13,484	466	3.46%
Total investment securities	75,057	2,059	2.74%	72,046	1,889	2.62%	61,665	1,744	2.83%
Loans	10,001	2,007	2.7 170	72,010	1,009	2.0270	01,005	1,7 11	2.05 /
Commercial	107,752	3,778	3.51%	100,319	3,141	3.13%	98,093	2,975	3.03%
Commercial real estate	29,487	1,054	3.57%	28,729	964	3.36%	25,177	896	3.56%
Equipment lease financing	7,618	248	3.26%	7,463	266	3.56%	7,570	260	3.43%
Consumer	56,262	2,585	4.59%	57,499	2,476	4.31%	60,094	2,505	4.17%
Residential real estate	16,152	725	4.49%	14,807	696	4.70%	14,415	697	4.84%
Total loans	217,271	8,390	3.86%	208,817	7,543	3.61%	205,349	7,333	3.57%
Interest-earning deposits with banks	24,043	267	1.11%	26,328	136	.52%	32,908	86	.26%
Other interest-earning assets	8,983	313	3.48%	7,843	279	3.56%	8,903	356	4.00%
Total interest-earning assets/interest income	325,354	11,029	3.39%	315,034	9,847	3.13%	308,825	9,519	3.08%
Noninterest-earning assets	46,415	11,029	5.5770	46,226	>,017	5.1570	46,139	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	5.007
Total assets	\$371,769			\$361,260			\$354,964		
Liabilities and Equity	\$571,707			\$501,200			\$554,704		
Interest-bearing liabilities:									
Interest-bearing deposits									
Money market	\$ 62,331	217	.35%	\$ 71,530	146	.20%	\$ 81,911	214	.26%
Demand	57,045	76	.13%	52,701	40	.08%	46,649	26	.06%
Savings	42,749	197	.46%	29,643	119	.40%	14,719	32	.22%
Time deposits	17,322	133	.77%	18,890	125	.66%	20,686	131	.63%
Total interest-bearing deposits	179,447	623	.35%	172,764	430	.25%	163,965	403	.25%
Borrowed funds	1/),++/	025	.5570	172,704	450	.2370	105,705	405	.257
Federal Home Loan Bank borrowings	19,890	261	1.31%	18,385	155	.84%	21,365	104	.49%
Bank notes and senior debt	25,564	517	2.02%	21,906	352	1.61%	17,937	223	1.24%
Subordinated debt	6,273	222	3.54%	8,324	264	3.17%	8,796	225	2.68%
Other	5,162	83	1.61%	4,324	60	1.39%	8,415	230 79	.94%
Total borrowed funds			1.01%	-		1.59%		642	
	56,889	1,083		52,939	831		56,513		1.14% .47%
Total interest-bearing liabilities/interest expense	236,336	1,706	.72%	225,703	1,261	.56%	220,478	1,045	.47%
Noninterest-bearing liabilities and equity:	79 (24			70.005			76.200		
Noninterest-bearing deposits	78,634			78,085			76,398		
Accrued expenses and other liabilities	10,518			11,083			12,210		
Equity	46,281			46,389			45,878		
Total liabilities and equity	\$371,769		0.674	\$361,260		0.576	\$354,964		0.610
Interest rate spread			2.67%			2.57%			2.61%
Impact of noninterest-bearing sources			.20			.16		b	.13
Net interest income/margin		\$ 9,323	2.87%		\$ 8,586	2.73%		\$ 8,474	2.749

(a) Nonaccrual loans are included in loans, net of unearned income. The impact of financial derivatives used in interest rate risk management is included in the interest income/ expense and average yields/rates of the related assets and liabilities. Basis adjustments related to hedged items are included in noninterestbearing liabilities. Average balances of securities are based on amortized historical cost (excluding adjustments to fair value, which are included in other assets). Average balances for certain loans and borrowed funds accounted for at fair value, with changes in fair value recorded in Noninterest income, are included in noninterest-earning assets and noninterest-bearing liabilities.

(b) Loan fees for the years ended December 31, 2017, 2016 and 2015 were \$126 million, \$137 million and \$106 million, respectively.

(c) Interest income calculated as taxable-equivalent interest income. To provide more meaningful comparisons of interest income and yields for all interest-earning assets, as well as net interest margins, we use interest income on a taxable-equivalent basis in calculating average yields and net interest margin by increasing the interest income earned on tax-exempt assets to make it fully equivalent to interest income earned on taxable investments. This adjustment is not permitted under GAAP. See Reconciliation of Taxable-Equivalent Net Interest Income in this Statistical Information section for more information.

ANALYSIS OF YEAR-TO-YEAR CHANGES IN NET INTEREST INCOME (a) (b)

		2017/2016 Increase/(Decrease) in Income/								2016/2015 Increase/(Decrease) in Income/					
Taxable-equivalent basis	V	·	nse I	Due to Change	es in:	Tatal		Expe Volume	nse	Due to Changes	Total				
In millions Interest-Earning Assets	v	olume		Rate		Total		volume		Rate	Total				
Investment securities															
Securities available for sale															
Residential mortgage-backed															
Agency	\$	8	\$	37	\$	45	\$	99	\$	(22)	\$ 77				
Non-agency	\$ \$		ֆ \$	18	Ф	(22)	\$ \$	(37)	ֆ \$	(22)	\$ 77 (32)				
Commercial mortgage-backed	\$ \$			22			φ	(37)							
Asset-backed	3 \$	(33)		16		(11)	¢	12	\$ \$	(28)	(28)				
		(1)	\$ ¢				\$								
U.S. Treasury and government agencies	\$	42	\$	38		80	\$	58	\$ ¢	18	76				
Other	\$	1	\$	5		6	\$	23	\$	(17)	6				
Total securities available for sale	\$	23	\$	90		113	\$	217	\$	(97)	120				
Securities held to maturity	¢.	-				- 4	<i></i>				20				
Residential mortgage-backed	\$	70	\$	4		74	\$	66	\$	(27)	39				
Commercial mortgage-backed	\$		\$	6		(11)	\$	()	\$	(3)	(13)				
Asset-backed	\$		\$	3		(4)	\$		\$	4	3				
U.S. Treasury and government agencies	\$	9	\$	(2)		7	\$	2	\$	(1)	1				
Other	\$		\$	(8)		(9)	\$		\$	10	(5)				
Total securities held to maturity	\$	65	\$	(8)		57	\$	58	\$	(33)	25				
Total investment securities	\$	81	\$	89		170	\$	280	\$	(135)	145				
Loans															
Commercial	\$	242	\$	395		637	\$	67	\$	99	166				
Commercial real estate	\$	26	\$	64		90	\$	120	\$	(52)	68				
Equipment lease financing	\$	6	\$	(24)		(18)	\$	(4)	\$	10	6				
Consumer	\$	(53)	\$	162		109	\$	(111)	\$	82	(29)				
Residential real estate	\$	61	\$	(32)		29	\$	19	\$	(20)	(1)				
Total loans	\$	312	\$	535		847	\$	126	\$	84	210				
Interest-earning deposits with banks	\$	(13)	\$	144		131	\$	(20)	\$	70	50				
Other interest-earning assets	\$	40	\$	(6)		34	\$	(40)	\$	(37)	(77)				
Total interest-earning assets	\$	334	\$	848	\$	1,182	\$	182	\$	146	\$ 328				
Interest-Bearing Liabilities															
Interest-bearing deposits															
Money market	\$	(21)	\$	92	\$	71	\$	(24)	\$	(44)	\$ (68)				
Demand	\$	4	\$	32		36	\$	4	\$	10	14				
Savings	\$	58	\$	20		78	\$	49	\$	38	87				
Time deposits	\$	(11)	\$	19		8	\$	(12)	\$	6	(6)				
Total interest-bearing deposits	\$	17	\$	176		193	\$	27			27				
Borrowed funds															
Federal Home Loan Bank borrowings	\$	14	\$	92		106	\$	(17)	\$	68	51				
Bank notes and senior debt	\$	65	\$	100		165	\$	55	\$	74	129				
Subordinated debt	\$	(70)		28		(42)	\$	(13)		41	28				
Other	\$	13	\$	10		23	\$	(48)		29	(19)				
Total borrowed funds	\$	66	\$	186	-	252	\$	(43)		232	189				
Total interest-bearing liabilities	\$	63	\$	382		445	\$	24	\$	192	216				
Change in net interest income	\$	287	\$	450	\$	737	\$	160	\$	-	\$ 112				

(a) Changes attributable to rate/volume are prorated into rate and volume components.

(b) Interest income calculated as taxable-equivalent interest income. To provide more meaningful comparisons of interest income, we use interest income on a taxable-equivalent basis by increasing the interest income earned on tax-exempt assets to make it fully equivalent to interest income earned on taxable investments. This adjustment is not permitted under GAAP. See Reconciliation of Taxable-Equivalent Net Interest Income in this Statistical Information section for more information.

RECONCILIATION OF TAXABLE-EQUIVALENT NET INTEREST INCOME (NON-GAAP) (a)

	 Year ended December 31											
In millions	 2017		2016		2015		2014		2013			
Net interest income (GAAP)	\$ 9,108	\$	8,391	\$	8,278	\$	8,525	\$	9,147			
Taxable-equivalent adjustments	215		195		196		189		168			
Net interest income (Non-GAAP)	\$ 9,323	\$	8,586	\$	8,474	\$	8,714	\$	9,315			

(a) The interest income earned on certain earning assets is completely or partially exempt from federal income tax. As such, these tax-exempt instruments typically yield lower returns than taxable investments. To provide more meaningful comparisons of net interest income, we use interest income on a taxable-equivalent basis by increasing the interest income earned on tax-exempt assets to make it fully equivalent to interest income earned on taxable investments. This adjustment is not permitted under GAAP. As a result of the Tax Cuts and Jobs Act, which was enacted into law during the fourth quarter of 2017, the statutory tax rate for corporations was lowered to 21% from 35%, effective January 1, 2018. As such, beginning in 2018, our taxable-equivalent adjustments will be calculated using this lower statutory tax rate.

LOANS SUMMARY

December 31 – in millions	 2017	2016	2015	2014	2013
Commercial lending					
Commercial	\$ 110,527	\$ 101,364	\$ 98,608	\$ 97,420	\$ 88,378
Commercial real estate	28,978	29,010	27,468	23,262	21,191
Equipment lease financing	7,934	7,581	7,468	7,686	7,576
Total commercial lending	147,439	137,955	133,544	128,368	117,145
Consumer lending					
Home equity	28,364	29,949	32,133	34,677	36,447
Residential real estate	17,212	15,598	14,411	14,407	15,065
Credit card	5,699	5,282	4,862	4,612	4,425
Other consumer	21,744	22,049	21,746	22,753	22,531
Total consumer lending	73,019	72,878	73,152	76,449	78,468
Total loans	\$ 220,458	\$ 210,833	\$ 206,696	\$ 204,817	\$ 195,613

RECONCILIATION OF TANGIBLE BOOK VALUE PER COMMON SHARE (NON-GAAP)

December 31 Dollars in millions, except per share data	 2017	2016	2015	2014	2013
Book value per common share	\$ 91.94	\$ 85.94	\$ 81.84	\$ 77.61	\$ 72.07
Tangible book value per common share					
Common shareholders' equity	\$ 43,530	\$ 41,723	\$ 41,258	\$ 40,605	\$ 38,392
Goodwill and Other Intangible Assets	(9,498)	(9,376)	(9,482)	(9,595)	(9,654)
Deferred tax liabilities on Goodwill and Other Intangible Assets	191	304	310	320	333
Tangible common shareholders' equity	\$ 34,223	\$ 32,651	\$ 32,086	\$ 31,330	\$ 29,071
Period-end common shares outstanding (in millions)	473	485	504	523	533
Tangible book value per common share (Non-GAAP) (a)	\$ 72.28	\$ 67.26	\$ 63.65	\$ 59.88	\$ 54.57

(a) We believe this non-GAAP financial measure serves as a useful tool to help evaluate the strength and discipline of a company's capital management strategies and as an additional conservative measure of total company value.

RECONCILIATION OF **F**EE **I**NCOME (NON-GAAP)

Year ended December 31 Dollars in millions	2017	201	5	2015
Noninterest income				
Asset management	\$ 5 1,942	\$ 1,52	\$	1,567
Consumer services	1,415	1,38	3	1,335
Corporate services	1,621	1,504	Ļ	1,491
Residential mortgage	350	56	7	566
Service charges on deposits	695	66	1	651
Total fee income	6,023	5,64	1	5,610
Other	1,198	1,124	ŀ	1,337
Total noninterest income	\$ 5 7,221	\$ 6,77	\$	6,947

NONPERFORMING ASSETS AND RELATED INFORMATION

December 31 – dollars in millions	 2017	2016	2015		2014		2013
Nonperforming loans							
Commercial	\$ 429	\$ 496	\$ 351	\$	290	\$	457
Commercial real estate	123	143	187		334		518
Equipment lease financing	2	16	7		2		5
Total commercial lending	554	655	545		626		980
Consumer lending (a)							
Home equity (b)	818	914	977		1,112		1,139
Residential real estate (b)	400	501	549		706		904
Credit card	6	4	3		3		4
Other consumer (b)	87	70	52		63		61
Total consumer lending	1,311	1,489	1,581		1,884		2,108
Total nonperforming loans (c)	1,865	2,144	2,126		2,510		3,088
OREO, foreclosed and other assets	170	230	 299		370	369	
Total nonperforming assets	\$ 2,035	\$ 2,374	\$ 2,425	\$	2,880	\$	3,457
Nonperforming loans to total loans	.85%	1.02%	1.03%		1.23%		1.58%
Nonperforming assets to total loans, OREO, foreclosed and other assets	.92%	1.12%	1.17%		1.40%		1.76%
Nonperforming assets to total assets	.53%	.65%	.68%	.8%			1.08%
Interest on nonperforming loans (d)							
Computed on original terms	\$ 114	\$ 111	\$ 115	\$	125	\$	163
Recognized prior to nonperforming status	\$ 19	\$ 21	\$ 22	\$	25	\$	30
Troubled Debt Restructurings							
Nonperforming	\$ 964	\$ 1,112	\$ 1,119	\$	1,370	\$	1,511
Performing	\$ 1,097	\$ 1,109	\$ 1,232	\$	1,213	\$	1,228
Past due loans							
Accruing loans past due 90 days or more (e)	\$ 737	\$ 782	\$ 881	\$	1,105	\$	1,491
As a percentage of total loans	.33%	.37%	.43%		.54%		.76%
Past due loans held for sale							
Accruing loans held for sale past due 90 days or more	\$ 3	\$ 4	\$ 4	\$	9	\$	4
As a percentage of total loans held for sale	.11%	.16%	.29%		.40%		.18%

(a) Excludes most consumer loans and lines of credit, not secured by residential real estate, which are charged off after 120 to 180 days past due and are not placed on nonperforming status.

(b) Pursuant to alignment with interagency supervisory guidance on practices for loans and lines of credit related to consumer lending in the first quarter of 2013, nonperforming home equity loans increased \$214 million, nonperforming residential mortgage loans increased \$187 million and nonperforming other consumer loans increased \$25 million. Charge-offs were taken on these loans where the fair value less costs to sell the collateral was less than the recorded investment of the loan and were \$134 million.

(c) Nonperforming loans exclude certain government insured or guaranteed loans, loans held for sale, loans accounted for under the fair value option and purchased impaired loans.

(d) Amounts are for the year ended.

(e) Past due loan amounts include government insured or guaranteed consumer loans of \$.6 billion, \$.7 billion, \$.8 billion, \$1.0 billion and \$1.0 billion at December 31, 2017, 2016, 2015, 2014 and 2013, respectively.

SUMMARY OF LOAN LOSS EXPERIENCE

Year ended December 31 – dollars in millions	 2017	2016	2015	2014	 2013
Allowance for loan and lease losses – January 1	\$ 2,589	\$ 2,727	3,331	\$ 3,609	\$ 4,036
Gross charge-offs					
Commercial	(186)	(332)	(206)	(276)	(395)
Commercial real estate	(24)	(26)	(44)	(70)	(203)
Equipment lease financing	(11)	(5)	(5)	(14)	(8)
Home equity	(123)	(143)	(181)	(275)	(486)
Residential real estate	(9)	(14)	(24)	(40)	(133)
Credit card	(182)	(161)	(160)	(163)	(178)
Other consumer	(251)	(205)	(185)	(183)	(185)
Total charge-offs	(786)	(886)	(805)	(1,021)	(1,588)
Recoveries					
Commercial	81	117	170	207	248
Commercial real estate	28	51	66	84	93
Equipment lease financing	7	10	4	14	16
Home equity	91	84	93	78	73
Residential real estate	18	9	13	26	4
Credit card	21	19	21	21	22
Other consumer	83	53	52	60	55
Total recoveries	329	343	419	490	511
Net charge-offs	(457)	(543)	(386)	(531)	 (1,077)
Provision for credit losses	441	433	255	273	643
Net decrease / (increase) in allowance for unfunded loan commitments and letters of credit	4	(40)	(2)	(17)	8
Other (a)	34	12	(471)	(3)	(1)
Allowance for loan and lease losses – December 31	\$ 2,611	\$ 2,589	\$ 2,727	\$ 3,331	\$ 3,609
Allowance as a percentage of December 31:					
Loans (a)	1.18%	1.23%	1.32%	1.63%	1.84%
Nonperforming loans	140%	121%	128%	133%	117%
As a percentage of average loans:					
Net charge-offs	.21%	.26%	.19%	.27%	.57%
Provision for credit losses	.20%	.21%	.12%	.14%	.34%
Allowance for loan and lease losses (a)	1.20%	1.24%	1.33%	1.67%	1.90%
Allowance as a multiple of net charge-offs	5.71x	4.77x	7.06x	6.27x	3.35x

(a) Includes \$468 million in write-offs of purchased impaired loans in 2015 due to the change in derecognition policy effective December 31, 2015 for certain consumer purchased impaired loans. See Note 1 Accounting Policies in our 2015 Form 10-K for additional information.

The following table presents the assignment of the allowance for loan and lease losses and the categories of loans as a percentage of total loans. Changes in the allocation over time reflect the changes in loan portfolio composition, risk profile and refinements to reserve methodologies.

	20	017	20)16	20	015	20	14	20	013
December 31 Dollars in millions	Allowance	Loans to Total Loans								
Commercial	\$ 1,302	50.1%	\$ 1,179	48.1%	\$ 1,286	47.7%	\$ 1,209	47.6%	\$ 1,100	45.2%
Commercial real estate	244	13.1	320	13.8	281	13.3	318	11.4	400	10.8
Equipment lease financing	36	3.6	35	3.6	38	3.6	44	3.7	47	3.9
Home equity	284	12.9	357	14.2	484	15.5	872	16.9	1,051	18.6
Residential real estate	300	7.8	332	7.4	307	7.0	561	7.0	642	7.7
Credit card	220	2.6	181	2.5	167	2.4	173	2.3	169	2.3
Other consumer	225	9.9	185	10.4	164	10.5	154	11.1	200	11.5
Total	\$ 2,611	100.0%	\$ 2,589	100.0%	\$ 2,727	100.0%	\$ 3,331	100.0%	\$ 3,609	100.0%

ALLOCATION OF ALLOWANCE FOR LOAN AND LEASE LOSSES

TIME DEPOSITS

The aggregate amount of time deposits with a denomination of \$100,000 or more was \$8.5 billion at December 31, 2017 and \$7.7 billion at December 31, 2016. Time deposits of \$100,000 or more included time deposits in foreign offices of \$2.4 billion at December 31, 2017. Domestic time deposits of \$100,000 or more were \$6.1 billion at December 31, 2017 with the following maturities:

December 31, 2017 - in billions	 Domestic Certificates of Deposit
Three months or less	\$ 1.1
Over three through six months	1.4
Over six through twelve months	1.8
Over twelve months	1.8
Total	\$ 6.1

Selected Loan Maturities And Interest Sensitivity

December 31, 2017 In millions	1 Year or Less	1	Through 5 Years	After 5 Years	Gross Loans
Commercial	\$27,922	\$	73,299	\$ 9,306	\$110,527
Commercial real estate	8,418		14,741	5,819	28,978
Total	\$ 36,340	\$	88,040	\$15,125	\$139,505
Loans with:					
Predetermined rate	\$ 5,531	\$	13,064	\$ 6,850	\$ 25,445
Floating or adjustable rate	30,809		74,976	8,275	114,060
Total	\$ 36,340	\$	88,040	\$15,125	\$139,505

At December 31, 2017, we had no pay-fixed interest rate swaps designated to commercial loans as part of fair value hedge strategies. At December 31, 2017, \$22.8 billion notional amount of receive-fixed interest rate swaps were designated as part of cash flow hedging strategies that converted the floating rate (1 month LIBOR) on the underlying commercial loans to a fixed rate as part of risk management strategies.

COMMON STOCK PRICES/DIVIDENDS DECLARED

The table below sets forth by quarter the range of high and low sale and quarter-end closing prices for The PNC Financial Services Group, Inc. common stock and the cash dividends declared per common share.

	High	Low	Close	 Cash Dividends clared (a)
2017 Quarter				
First	\$ 131.83	\$ 113.66	\$ 120.24	\$.55
Second	\$ 128.25	\$ 115.45	\$ 124.87	.55
Third	\$ 135.73	\$ 119.77	\$ 134.77	.75
Fourth	\$ 147.28	\$ 130.46	\$ 144.29	.75
Total				\$ 2.60
2016 Quarter				
First	\$ 94.26	\$ 77.67	\$ 84.57	\$.51
Second	\$ 90.85	\$ 77.40	\$ 81.39	.51
Third	\$ 91.39	\$ 77.86	\$ 90.09	.55
Fourth	\$ 118.57	\$ 87.34	\$ 116.96	.55
Total				\$ 2.12

(a) Our Board of Directors approved a first quarter 2018 cash dividend of \$.75 per common share, which was payable on February 5, 2018.

TRANSITIONAL BASEL III AND PRO FORMA FULLY PHASED-IN BASEL III COMMON EQUITY TIER 1 CAPITAL RATIOS (NON-GAAP) – 2013-2016 PERIODS

Our regulatory risk-based ratios for 2014 through 2016 were calculated using the standardized approach for determining riskweighted assets, and the definitions of, and deductions from, regulatory capital under the Basel III rules (as such definitions and deductions were phased-in for 2014 through 2016). We refer to the capital ratios calculated using the phased-in Basel III provisions in effect for those periods and, for the risk-based ratios, standardized approach risk-weighted assets as the Transitional Basel III ratios.

	Transitional Basel III							Pro forma Fully Phased-In Basel III (Non-GAAP) (estimated) (a) (b)								
Dollars in millions	E	December 31 2016		December 31 2015	I	December 31 2014	D	ecember 31 2016	De	December 31 2015		ecember 31 2014	D	ecember 31 2013		
Common stock, related surplus and retained earnings, net of treasury stock	\$	41,987	\$	41,128	\$	40,103	\$	41,987	\$	41,128	\$	40,103	\$	38,031		
Less regulatory capital adjustments:																
Goodwill and disallowed intangibles, net of deferred tax liabilities		(8,974)		(8,972)		(8,939)		(9,073)		(9,172)		(9,276)		(9,321)		
Basel III total threshold deductions		(762)		(470)		(212)		(1,469)		(1,294)		(1,081)		(1,386)		
Accumulated other comprehensive income (c)		(238)		(81)		40		(396)		(201)		201		196		
All other adjustments		(214)		(112)		(63)		(221)		(182)		(121)		(64)		
Basel III Common equity Tier 1 capital	\$	31,799	\$	31,493	\$	30,929	\$	30,828	\$	30,279	\$	29,826	\$	27,456		
Basel III standardized approach risk-weighted assets (d)	\$	300,533	\$	295,905	\$	284,018	\$	308,517	\$	303,707	\$ 2	298,786	\$	291,977		
Basel III advanced approaches risk-weighted assets (e)		N/A		N/A		N/A	\$	277,896	\$	264,931	\$ 2	285,870	\$	290,080		
Basel III Common equity Tier 1 capital ratio		10.6%		10.6%		10.9%		10.0%		10.0%		10.0%		9.4%		
Risk weight and associated rules utilized	(v tı	indardized with 2016 ransition justments)	(andardized with 2015 transition ljustments)	(v t	andardized with 2014 ransition justments)	Standardized									

(a) We utilize the pro forma fully phased-in Basel III capital ratios, to assess our capital position (without the benefit of phase-ins), as these ratios represent the regulatory capital standards that may ultimately be applicable to us under the final Basel III rules.

(b) Basel III capital ratios and estimates may be impacted by additional regulatory guidance or analysis, and, in the case of those ratios calculated using the advanced approaches, may be subject to variability based on the ongoing evolution, validation and regulatory approval of our models that are integral to the calculation of advanced approaches risk-weighted assets.

(c) Represents net adjustments related to accumulated other comprehensive income for securities currently and those transferred from available for sale, as well as pension and other postretirement plans.

(d) Basel III standardized approach risk-weighted assets are based on the Basel III standardized approach rules and include credit and market risk-weighted assets.

(e) Basel III advanced approaches risk-weighted assets are based on the Basel III advanced approaches rules, and include credit, market and operational risk-weighted assets. During the parallel run qualification phase we have refined the data, models and internal processes used as part of the advanced approaches for determining risk-weighted assets. Refinements implemented in the fourth quarter of 2015 reduced estimated Basel III advanced approaches risk-weighted assets. We anticipate additional refinements to this estimate through the parallel run qualification phase.

BASEL I TIER 1 COMMON CAPITAL RATIO (a) (b)

Dollars in millions	 December 31 2013
Basel I Tier 1 common capital	\$ 28,484
Basel I risk-weighted assets	\$ 272,169
Basel I Tier 1 common capital ratio	10.5%

(a) Effective January 1, 2014, the Basel I Tier 1 common capital ratio no longer applies to us (except for stress testing purposes). Our 2013 Form 10-K included additional information regarding our Basel I capital ratios.

(b) Amounts have not been updated to reflect the first quarter 2014 adoption of ASU 2014-01 related to investments in low income housing tax credits.

ITEM 9 – CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE

None.
ITEM 9A – CONTROLS AND PROCEDURES

MANAGEMENT'S REPORT ON INTERNAL CONTROL OVER FINANCIAL REPORTING

The management of The PNC Financial Services Group, Inc. and subsidiaries (PNC) is responsible for establishing and maintaining adequate internal control over financial reporting, as such term is defined in the Exchange Act Rule 13a-15(f).

Because of inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

We performed an evaluation under the supervision and with the participation of our management, including the Chairman, President and Chief Executive Officer and the Executive Vice President and Chief Financial Officer, of the effectiveness of PNC's internal control over financial reporting as of December 31, 2017. This assessment was based on criteria for effective internal control over financial reporting described in *Internal Control-Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission. Based on this assessment, management concluded that PNC maintained effective internal control over financial reporting as of December 31, 2017.

PricewaterhouseCoopers LLP, the independent registered public accounting firm that audited our consolidated financial statements as of and for the year ended December 31, 2017 included in this Report, has also audited the effectiveness of PNC's internal control over financial reporting as of December 31, 2017. The report of PricewaterhouseCoopers LLP is included under Item 8 of this Report.

DISCLOSURE CONTROLS AND PROCEDURES AND CHANGES IN INTERNAL CONTROL OVER FINANCIAL REPORTING

As of December 31, 2017, we performed an evaluation under the supervision and with the participation of our management, including the Chairman, President and Chief Executive Officer and the Executive Vice President and Chief Financial Officer, of the effectiveness of the design and operation of our disclosure controls and procedures and of changes in our internal control over financial reporting.

Based on that evaluation, our Chairman, President and Chief Executive Officer and our Executive Vice President and Chief Financial Officer concluded that our disclosure controls and procedures (as defined in Rule 13a-15(e) under the Securities and Exchange Act of 1934, as amended) were effective as of December 31, 2017, and that there has been no change in PNC's internal control over financial reporting that occurred during the fourth quarter of 2017 that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

ITEM 9B – OTHER INFORMATION

None.

PART III

ITEM 10 – DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE

Certain of the information regarding our directors (or nominees for director), executive officers and Audit Committee (and Audit Committee financial experts), required by this item is included under the captions "Election of Directors (Item 1)," and "Corporate Governance – Board committees – Audit Committee," in our Proxy Statement to be filed for the 2018 annual meeting of shareholders and is incorporated herein by reference.

Additional information regarding our executive officers and our directors is included in Part I of this Report under the captions "Executive Officers of the Registrant" and "Directors of the Registrant."

Information regarding our compliance with Section 16(a) of the Securities Exchange Act of 1934 is included under the caption "Section 16(a) Beneficial Ownership Reporting Compliance" in our Proxy Statement to be filed for the 2018 annual meeting of shareholders and is incorporated herein by reference.

Certain information regarding our PNC Code of Business Conduct and Ethics required by this item is included under the caption "Corporate Governance – Our Code of Business Conduct and Ethics" and "Director and Executive Officer Relationships - Code of Business Conduct and Ethics" in our Proxy Statement to be filed for the 2018 annual meeting of shareholders and is incorporated herein by reference. Our PNC Code of Business Conduct and Ethics is available on our corporate website at www.pnc.com/corporategovernance. In addition, any future amendments to, or waivers from, a provision of the PNC Code of Business Conduct and Ethics that applies to our directors or executive officers (including our principal executive officer, principal financial officer, and principal accounting officer or controller) will be posted at this internet address.

ITEM 11 – EXECUTIVE COMPENSATION

The information required by this item is included under the captions "Corporate Governance – Board committees – Personnel and Compensation Committee – Compensation committee interlocks and insider participation," "Director Compensation," "Compensation Discussion and Analysis," "Compensation Committee Report," "Compensation and Risk," "Compensation Tables," "Change in Control and Termination of Employment" and "CEO Pay Ratio" in our Proxy Statement to be filed for the 2018 annual meeting of shareholders and is incorporated herein by reference. In accordance with Item 407(e)(5) of Regulation S-K, the information set forth under the caption "Compensation Committee Report" in such Proxy Statement will be deemed

to be furnished in this Report and will not be deemed to be incorporated by reference into any filing under the Securities Act or the Exchange Act as a result of furnishing the disclosure in this manner.

ITEM 12 – SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS

The information required by this item regarding security ownership of certain beneficial owners and management is included under the caption "Security Ownership of Management and Certain Beneficial Owners" in our Proxy Statement to be filed for the 2018 annual meeting of shareholders and is incorporated herein by reference.

Information regarding our compensation plans under which PNC equity securities are authorized for issuance as of December 31, 2017 is included in the table which follows. Additional information regarding these plans is included in Note 12 Stock Based Compensation Plans in the Notes To Consolidated Financial Statements in Item 8 of this Report.

Equity Compensation Plan Information At December 31, 2017

	(a)		(b)	(c)	
	Number of securities to be issued upon exercise of outstanding options, warrants and rights		Weighted-average exercise price of atstanding options, warrants and rights (1)	Number of securities remaining available for future issuance under equity compensation plans (excluding securities reflected in column (a))	
Plan Category					
Equity compensation plans approved by security holders	6,185,160	(2)	\$ 58.02	36,547,360	(3)
Equity compensation plans not approved by security holders	24,706	(4)	\$ 136.23		
Total	6,209,866		\$ 59.48	36,547,360	

(1) – The weighted-average exercise price does not take into account restricted stock units or incentive performance units because they have no exercise price.

(2) – Of this total, the following amounts relate to the 2016 Incentive Award Plan (2016 Incentive Plan), approved by shareholders on April 26, 2016: 1,326,972 are stock-payable restricted stock units (at a maximum share award level), and 108,176 are incentive performance unit awards (at a maximum share award level). Also included in this total are the following amounts that relate to the 2006 Incentive Award Plan, as amended and restated (2006 Incentive Plan): 1,294,716 are stock options, 3,119,882 are stock-payable restricted stock units (at a maximum award level), and 335,414 are incentive performance unit awards (at a maximum share award level).

Under both the 2016 Incentive Plan and the 2006 Incentive Plan (for incentive performance unit awards under each) upon achievement of performance goals and other conditions above target level, payment is made in cash share equivalents, up to a maximum of 25% of the target number of share units.

Following shareholder approval of the 2016 Incentive Plan, no further grants were permitted under the 2006 Incentive Plan.

(3) – Includes 534,068 shares available for issuance under the Employee Stock Purchase Plan, of which 63,429 shares are subject to purchase during the purchase period ending December 31, 2017. The amount available for awards under the 2016 Incentive Plan is 36,013,292.

(4) – Represents 24,706 shares subject to options outstanding under pre-acquisition plans of National City Corporation, which was merged into The PNC Financial Services Group, Inc. on December 31, 2008. Pursuant to the merger agreement, awards granted under the National City plans were converted into awards of PNC common stock. No further awards may be made under these plans.

ITEM 13 – CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS, AND DIRECTOR INDEPENDENCE

The information required by this item is included under the captions "Director and Executive Officer Relationships – Director independence, – Transactions with directors, – Family relationships, and – Indemnification and advancement of costs" and "Related Person Transactions" in our Proxy Statement to be filed for the 2018 annual meeting of shareholders and is incorporated herein by reference.

ITEM 14 – PRINCIPAL ACCOUNTING FEES AND SERVICES

The information required by this item is included under the caption "Ratification of Independent Registered Public Accounting Firm (Item 2) – Audit, audit-related and permitted non-audit fees and – Procedures for pre-approving audit services, audit-related services and permitted non-audit services" in our Proxy Statement to be filed for the 2018 annual meeting of shareholders and is incorporated herein by reference.

PART IV ITEM 15 – EXHIBITS, FINANCIAL STATEMENT SCHEDULES

FINANCIAL STATEMENTS, FINANCIAL STATEMENT SCHEDULES

Our consolidated financial statements required in response to this Item are incorporated by reference from Item 8 of this Report. Audited consolidated financial statements of BlackRock, Inc. as of December 31, 2017 and 2016 and for each of the three years in the period ended December 31, 2017 are filed with this Report as Exhibit 99.1 and incorporated herein by reference.

EXHIBIT INDEX

Exhibit No.	Description	Method of Filing +
3.1.1	Amended and Restated Articles of Incorporation of the Corporation, effective January 2, 2009	Incorporated herein by reference to Exhibit 3.1 of the Corporation's Annual Report on Form 10-K for the year ended December 31, 2008 (2008 Form 10-K)
3.1.2	Statement with Respect to Shares of Fixed-to-Floating Rate Non-Cumulative Perpetual Preferred Stock, Series O dated July 21, 2011	Incorporated herein by reference to Exhibit 3.1 of the Corporation's Current Report on Form 8-K filed July 27, 2011
3.1.3	Statement with Respect to Shares of Fixed-to-Floating Rate Non-Cumulative Perpetual Preferred Stock, Series P dated April 19, 2012	Incorporated herein by reference to Exhibit 3.1 of the Corporation's Current Report on Form 8-K filed April 24, 2012
3.1.4	Statement with Respect to Shares of 5.375% Non- Cumulative Perpetual Preferred Stock, Series Q dated September 14, 2012	Incorporated herein by reference to Exhibit 3.1 of the Corporation's Current Report on Form 8-K filed September 21, 2012
3.1.5	Statement with Respect to Shares of Fixed-to-Floating Rate Non-Cumulative Perpetual Preferred Stock, Series R dated May 2, 2013	Incorporated herein by reference to Exhibit 3.1 of the Corporation's Current Report on Form 8-K filed May 7, 2013
3.1.6	Amendment to Amended and Restated Articles of Incorporation of the Corporation, effective November 19, 2015	Incorporated herein by reference to Exhibit 3.1.6 of the Corporation's Current Report on Form 8-K filed November 20, 2015
3.1.7	Statement with Respect to Shares of Fixed-to-Floating Rate Non-Cumulative Perpetual Preferred Stock, Series S dated October 27, 2016	Incorporated herein by reference to Exhibit 3.1 of the Corporation's Current Report on Form 8-K filed November 1, 2016
3.2	By-Laws of the Corporation, as amended and restated, effective August 11, 2016	Incorporated herein by reference to Exhibit 3.2 of the Corporation's Current Report on Form 8-K filed August 11, 2016
4.1	There are no instruments with respect to long-term debt of the Corporation and its subsidiaries that involve a total amount of securities authorized thereunder that exceed 10 percent of the total assets of the Corporation and its subsidiaries on a consolidated basis. The Corporation agrees to provide the SEC with a copy of instruments defining the rights of holders of long-term debt of the Corporation and its subsidiaries on request.	
4.2	Warrants for Purchase of Shares of PNC Common Stock	Incorporated herein by reference to Exhibit 4.2 (included as part of Exhibit 4.1) of the Corporation's Form 8-A filed April 30, 2010
4.3	Deposit Agreement dated July 27, 2011, between the Corporation, Computershare Trust Company, N.A., Computershare Inc. and the holders from time to time of the Depositary Receipts representing interests in the Series O preferred stock	Incorporated herein by reference to Exhibit 4.2 of the Corporation's Current Report on Form 8-K filed July 27, 2011

4.4	Deposit Agreement, dated April 24, 2012, between the
	Corporation, Computershare Trust Company, N.A.,
	Computershare Inc. and the holders from time to time of the
	Depositary Receipts representing interests in the Series P
	preferred stock

4.5 Deposit Agreement, dated September 21, 2012, between the Corporation, Computershare Trust Company, N.A., Computershare Inc. and the holders from time to time of the Depositary Receipts representing interests in the Series Q preferred stock

4.6 Deposit Agreement, dated May 7, 2013, between the Corporation, Computershare Trust Company, N.A., Computershare Inc. and the holders from time to time of the Depositary Receipts representing interests in the Series R preferred stock

4.7 Deposit Agreement, dated November 1, 2016, between the Corporation, Computershare Trust Company, N.A., Computershare Inc. and the holders from time to time of the Depositary Receipts representing interests in the Series S preferred stock

4.8 Form of PNC Bank, National Association Subordinated Fixed Rate Global Bank Note issued prior to January 16, 2014

4.9.1 Issuing and Paying Agency Agreement, dated January 16, 2014, between PNC Bank, National Association and PNC Bank, National Association, relating to the \$25 billion Global Bank Note Program for the Issue of Senior and Subordinated Bank Notes

4.9.2 Amendment No. 1 to Issuing and Paying Agency Agreement, dated May 22, 2015, between PNC Bank, National Association and PNC Bank, National Association, relating to the \$30 billion Global Bank Note Program for the Issue of Senior and Subordinated Bank Notes

4.9.3 Amendment No. 2 to Issuing and Paying Agency Agreement, dated May 27, 2016, between PNC Bank, National Association and PNC Bank, National Association, relating to the \$40 billion Global Bank Note Program for the Issue of Senior and Subordinated Bank Notes

4.10 Forms of PNC Bank, National Association Senior Global Bank Notes issued after January 16, 2014 (included in Exhibit 4.9.1)

4.11 Forms of PNC Bank, National Association Subordinated Global Bank Notes issued on or after May 22, 2015 (included in Exhibit 4.9.2)

10.1.1 The Corporation's Supplemental Executive Retirement Plan, as amended and restated effective January 1, 2009

10.1.2 Amendment 2009-1 to the Corporation's Supplemental Executive Retirement Plan as amended and restated effective January 1, 2009

10.1.3 Amendment 2013-1 to the Corporation's Supplemental Executive Retirement Plan as amended and restated effective January 1, 2009

- 10.2.1 The Corporation's ERISA Excess Pension Plan, as amended and restated effective January 1, 2009
- 10.2.2 Amendment 2009-1 to the Corporation's ERISA Excess Plan as amended and restated effective January 1, 2009

Incorporated herein by reference to Exhibit 4.2 of the Corporation's Current Report on Form 8-K filed April 24, 2012

Incorporated herein by reference to Exhibit 4.2 of the Corporation's Current Report on Form 8-K filed September 21, 2012

Incorporated herein by reference to Exhibit 4.2 of the Corporation's Current Report on Form 8-K filed May 7, 2013

Incorporated herein by reference to Exhibit 4.2 of the Corporation's Current Report on Form 8-K filed November 1, 2016

Incorporated herein by reference to Exhibit 4.11 of the Corporation's 3rd Quarter 2004 Form 10-Q

Incorporated herein by reference to Exhibit 4.25 of the Corporation's Annual Report on Form 10-K for the year ended December 31, 2013 (2013 Form 10-K)

Incorporated herein by reference to Exhibit 4.21.2 of the Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2015 (2nd Quarter 2015 Form 10-Q)

Incorporated herein by reference to Exhibit 4.20.3 of the Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2016 (2nd Quarter 2016 Form 10-Q)

Incorporated herein by reference to Exhibit 4.25 of the Corporation's 2013 Form 10-K

Incorporated herein by reference to Exhibit 4.21.2 of the Corporation's 2nd Quarter 2015 Form 10-Q

Incorporated herein by reference to Exhibit 10.2 of the Corporation's 2008 Form 10-K*

Incorporated herein by reference to Exhibit 10.3 of the Corporation's Annual Report on Form 10-K for the year ended December 31, 2009 (2009 Form 10-K)*

Incorporated herein by reference to Exhibit 10.1.3 of the Corporation's 2013 Form 10-K*

Incorporated herein by reference to Exhibit 10.4 of the Corporation's 2008 Form 10-K*

Incorporated herein by reference to Exhibit 10.6 of the Corporation's 2009 Form 10-K*

- 10.2.3 Amendment 2011-1 to the Corporation's ERISA Excess Pension Plan, as amended and restated effective January 1, 2009
- 10.2.4 Amendment 2013-1 to the Corporation's ERISA Excess Pension Plan, as amended and restated effective January 1, 2009
- 10.3.1 The Corporation's Key Executive Equity Program, as amended and restated effective January 1, 2009
- 10.3.2 Amendment 2009-1 to the Corporation's Key Executive Equity Program as amended and restated as of January 1, 2009
- 10.4.1 The Corporation's Supplemental Incentive Savings Plan, as amended and restated effective January 1, 2010
- 10.4.2 Amendment 2013-1 to the Corporation's Supplemental Incentive Savings Plan, as amended and restated effective January 1, 2010
- 10.5.1 The Corporation and Affiliates Deferred Compensation Plan, as amended and restated May 5, 2009
- 10.5.2 Amendment 2009-1 to the Corporation and Affiliates Deferred Compensation Plan, as amended and restated May 5, 2009
- 10.5.3 Amendment 2010-1 to the Corporation and Affiliates Deferred Compensation Plan, as amended and restated May 5, 2009
- 10.5.4 Amendment 2011-1 to the Corporation and Affiliates Deferred Compensation Plan, as amended and restated May 5, 2009
- 10.5.5 Amendment 2012-1 to the Corporation and Affiliates Deferred Compensation Plan, as amended and restated May 5, 2009
- 10.5.6 Amendment 2013-1 to the Corporation and Affiliates Deferred Compensation Plan, as amended and restated May 5, 2009
- 10.6 The Corporation and Affiliates Deferred Compensation and Incentive Plan, as amended and restated effective January 1, 2017
- 10.7 The PNC Financial Services Group, Inc. 2016 Incentive Award Plan
- 10.8.1 The Corporation's 2006 Incentive Award Plan, as amended and restated effective as of March 11, 2011
- 10.8.2 Addendum to the Corporation's 2006 Incentive Award Plan, effective as of January 26, 2012
- 10.9 The Corporation's Executive Incentive Award Plan (formerly the 1996 Executive Incentive Aware Plan), as amended and restated effective as of January 1, 2017
- 10.10 The Corporation's Directors Deferred Compensation Plan, as amended and restated effective January 1, 2012
- 10.11 The Corporation's Directors Deferred Compensation Plan, as amended and restated effective January 1, 2015

Incorporated herein by reference to Exhibit 10.8 of the Corporation's Annual Report on Form 10-K for the year ended December 31, 2011 (2011 Form 10-K)*

Incorporated herein by reference to Exhibit 10.2.4 of the Corporation's 2013 Form 10-K*

Incorporated herein by reference to Exhibit 10.6 of the Corporation's 2008 Form 10-K*

Incorporated herein by reference to Exhibit 10.9 of the Corporation's 2009 Form 10-K*

Incorporated herein by reference to Exhibit 10.17 of the Corporation's 2011 Form 10-K*

Incorporated herein by reference to Exhibit 10.4.2 of the Corporation's 2013 Form 10-K*

Incorporated herein by reference to Exhibit 10.62 of the Corporation's 2nd Quarter 2009 Form 10-Q*

Incorporated herein by reference to Exhibit 10.17 of the Corporation's 2009 Form 10-K*

Incorporated herein by reference to Exhibit 10.20 of the Corporation's 2010 Form 10-K*

Incorporated herein by reference to Exhibit 10.23 of the Corporation's 2011 Form 10-K*

Incorporated herein by reference to Exhibit 10.24 of the Corporation's Annual Report on Form 10-K for the year ended December 31, 2012 (2012 Form 10-K)*

Incorporated herein by reference to Exhibit 10.5.6 of the Corporation's 2013 Form 10-K*

Incorporated herein by reference to Exhibit 10.7 of the Corporation's Form 10-K for the year ended December 31, 2016 (2016 Form 10-K)*

Incorporated herein by reference to Exhibit 99.1 of the Corporation's Form S-8 (File No. 333-210995) filed April 29, 2016*

Incorporated herein by reference to Exhibit 10.70 of the Corporation's Quarterly Report on Form 1O-Q for the quarter ended March 31, 2011 (1st Quarter 2011 Form 10-Q)*

Incorporated herein by reference to Exhibit 10.28 of the Corporation's 2011 Form 10-K*

Incorporated herein by reference to Exhibit 10.55 of the Corporation's Quarterly Report on Form 10-Q for the quarter ended March 31, 2017*

Incorporated herein by reference to Exhibit 10.32 of the Corporation's 2011 Form 10-K*

Incorporated herein by reference to Exhibit 10.52 of the Corporation's Quarterly Report on Form 10-Q for the quarter ended September 30, 2014 (3rd Quarter 2014 10-Q)*

10.12	The Corporation's Outside Directors Deferred Stock Unit Plan, as amended and restated effective January 1, 2012	Incorporated herein by reference to Exhibit 10.34 of the Corporation's 2011 Form 10-K*
10.13	The Corporation's Outside Directors Deferred Stock Unit Plan, as amended and restated effective January 1, 2015	Incorporated herein by reference to Exhibit 10.53 of the Corporation's 3rd Quarter 2014 10-Q*
10.14	The Corporation's 2016 Incentive Award Plan Directors Deferred Stock Unit Program effective January 1, 2017	Incorporated herein by reference to Exhibit 10.16 of the Corporation's 2016 Form 10-K*
10.15	Trust Agreement between the Corporation, as settlor, and Matrix Trust Company, as trustee	Filed herewith*
10.16	Trust Agreement between PNC Investment Corp., as settlor, and PNC Bank, National Association, as trustee	Incorporated herein by reference to Exhibit 10.34 of the Corporation's 3rd Quarter 2005 Form 10-Q*
10.17	Certificate of Corporate Action for Grantor Trusts effective January 1, 2012	Incorporated herein by reference to Exhibit 10.37 of the Corporation's 2011 Form 10-K*
10.18	The Corporation's Employee Stock Purchase Plan, as amended and restated as of January 1, 2014	Incorporated herein by reference to Exhibit 10.16 of the Corporation's 2013 Form 10-K
10.19	2008 forms of employee stock option and restricted share unit agreements	Incorporated herein by reference to the employee stock option and restricted share units agreements portions of Exhibit 10.26 of the Corporation's 2007 Form 10-K*
10.20	Form of employee stock option agreement with varied vesting schedule or circumstances	Incorporated herein by reference to Exhibit 10.50 of the Corporation's Current Report on Form 8-K filed April 18, 2008*
10.21	Form of employee restricted stock agreement with varied vesting schedule or circumstances	Incorporated herein by reference to Exhibit 10.51 of the Corporation's Current Report on Form 8-K filed April 18, 2008*
10.22	Form of employee stock option agreement with performance vesting schedule	Incorporated herein by reference to Exhibit 10.54 of the Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2008*
10.23	2009 forms of employee stock option, restricted stock and restricted share unit agreements	Incorporated by reference to the employee stock option, restricted stock and restricted share unit agreements portions of Exhibit 10.61 of the Corporation's Quarterly Report on Form 10-Q for the quarter ended March 31, 2009*
10.24	2010 forms of employee stock option, restricted stock, and restricted share unit agreements	Incorporated herein by reference to Exhibit 10.48 of the Corporation's 2009 Form 10-K*
10.25	2011 forms of employee stock option, restricted stock, restricted share unit and performance unit agreements	Incorporated herein by reference to Exhibit 10.71 of the Corporation's 1st Quarter 2011 Form 10-Q*
10.26	2012 forms of employee stock option, restricted stock and restricted share unit agreements	Incorporated herein by reference to Exhibit 10.77 of the Corporation's Quarterly Report on Form 10-Q for the quarter ended March 31, 2012 (1st Quarter 2012 Form 10-Q)*
10.27	Forms of employee stock option, restricted stock and restricted share unit agreements with varied vesting, payment and other circumstances	Incorporated herein by reference to Exhibit 10.78 of the Corporation's 1st Quarter 2012 Form 10-Q*
10.28	Additional 2012 forms of employee performance unit, restricted stock and restricted share unit agreements	Incorporated herein by reference to Exhibit 10.79 of the Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2012 (2nd Quarter 2012 Form 10-Q)*
10.29	2013 forms of employee stock option and restricted share unit agreements	Incorporated herein by reference to Exhibit 10.64 of the Corporation's 2012 Form 10-K*
10.30	Additional 2013 forms of employee stock option, performance unit, restricted stock and restricted share unit agreements	Incorporated herein by reference to Exhibit 10.82 of the Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2013*

10.31	Additional 2013 forms of employee restricted share unit agreements	Incorpor Corporat quarter e
10.32	Additional 2013 and 2014 forms of employee restricted share unit and performance unit agreements	Incorpora Corporat
10.33	Additional 2014 Forms of Employee Performance Unit and Restricted Share Unit Agreements	Incorpora Corporat quarter e
10.34	Additional 2014 Forms of Employee Restricted Share Unit Agreements	Incorpora Corporat
10.35	2015 Forms of Performance Restricted Share Unit Award Agreements	Incorpora Corporat
10.36	2015 Forms of Incentive Performance Unit Award Agreements	Incorpora Corporat
10.37	2015 Forms of Restricted Share Unit Award Agreements	Incorpora Corporat
10.38	2016 Form of Performance Restricted Share Units Award Agreement	Incorporat Corporat quarter e 10-Q)*
10.39	2016 Form of Incentive Performance Units Award Agreement	Incorpora Corporat
10.40	2016 Form of Senior Leader Performance Restricted Share Units Award Agreement	Incorpora Corporat
10.41	2016 Form of ALM Incentive Performance Units Award Agreement	Incorpora Corporat
10.42	Form of Time-Sharing Agreement between the Corporation and certain executives	Incorpora Corporat 2014*
10.43	Form of change of control employment agreements	Incorporat Corporat 2016*
10.44.1	The National City Corporation 2004 Deferred Compensation Plan, as amended and restated effective January 1, 2005	Incorpora National for the qu
10.44.2	Amendment to The National City Corporation 2004 Deferred Compensation Plan, as amended and restated effective January 1, 2005	Incorpora Corporat
10.45.1	Share Surrender Agreement, dated October 10, 2002, among Old BlackRock, PNC Asset Management, Inc., and the Corporation	Incorpora Quarterly Inc. (Cor as Old B 2002 (Ol
10.45.2	First Amendment, dated as of February 15, 2006, to the Share Surrender Agreement among Old BlackRock, PNC Bancorp, Inc. and the Corporation	Incorpora Current I (Commis (Old Blac
10.45.3	Second Amendment to Share Surrender Agreement made and entered into as of June 11, 2007 by and between the Corporation, BlackRock, Inc., and PNC Bancorp, Inc.	Incorporat Corporat 2007
10.45.4	Third Amendment to Share Surrender Agreement, dated as	Incorpora

of February 27, 2009, between the Corporation and

BlackRock, Inc.

Incorporated by reference to Exhibit 10.83 of the Corporation's Quarterly Report on Form 10-Q for the quarter ended September 30, 2013*

Incorporated by reference to Exhibit 10.36 of the Corporation's 2013 Form 10-K*

Incorporated herein by reference to Exhibit 10.50 of the Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2014*

Incorporated herein by reference to Exhibit 10.51 of the Corporation's 3rd Quarter 2014 10-Q*

Incorporated herein by reference to Exhibit 10.50 of the Corporation's 2nd Quarter 2015 Form 10-Q*

Incorporated herein by reference to Exhibit 10.51 of the Corporation's 2nd Quarter 2015 Form 10-Q*

Incorporated herein by reference to Exhibit 10.52 of the Corporation's 2nd Quarter 2015 Form 10-Q*

Incorporated herein by reference to Exhibit 10.52 of the Corporation's Quarterly Report on Form 10-Q for the quarter ended September 30, 2016 (3rd Quarter 2016 Form 10-Q)*

Incorporated herein by reference to Exhibit 10.53 of the Corporation's 3rd Quarter 2016 Form 10-Q*

Incorporated herein by reference to Exhibit 10.54 of the Corporation's 3rd Quarter 2016 Form 10-Q*

Incorporated herein by reference to Exhibit 10.55 of the Corporation's 3rd Quarter 2016 Form 10-Q*

Incorporated by reference to Exhibit 10.49 of the Corporation's Current Report on Form 8-K filed April 4, 2014*

Incorporated herein by reference to Exhibit 10.51 of the Corporation's Current Report on Form 8-K filed August 16, 2016*

Incorporated herein by reference to Exhibit 10.35 of National City Corporation's Quarterly Report on Form 10-Q for the quarter ended March 31, 2006*

Incorporated herein by reference to Exhibit 10.56 of the Corporation's 2010 Form 10-K*

Incorporated herein by reference to Exhibit 10.22 of the Quarterly Report on Form 10-Q of BlackRock Holdco 2, Inc. (Commission File No. 001-15305) (referred to herein as Old BlackRock) for the quarter ended September 30, 2002 (Old BlackRock 3rd Quarter 2002 Form 10-Q)

Incorporated herein by reference to Exhibit 10.3 of the Current Report on Form 8-K of Old BlackRock (Commission File No. 001-15305) filed February 22, 2006 (Old BlackRock February 22, 2006 Form 8-K)

Incorporated herein by reference to Exhibit 10.50 of the Corporation's Current Report on Form 8-K filed June 14, 2007

Incorporated herein by reference to Exhibit 10.3 of BlackRock, Inc.'s Current Report on Form 8-K filed February 27, 2009

10.45.5	Fourth Amendment to Share Surrender Agreement, dated as of August 7, 2012, among BlackRock, Inc., the Corporation and PNC Bancorp, Inc.	Incorporated herein by reference to Exhibit 10.1 of BlackRock, Inc.'s Form 10-Q for the quarter ended June 30, 2012
10.46.1	Amended and Restated Implementation and Stockholder Agreement, dated as of February 27, 2009, between the Corporation and BlackRock, Inc.	Incorporated herein by reference to Exhibit 10.2 of BlackRock, Inc.'s Current Report on Form 8-K filed February 27, 2009
10.46.2	Amendment No. 1, dated as of June 11, 2009, to the Amended and Restated Implementation and Stockholder Agreement between the Corporation and BlackRock, Inc.	Incorporated herein by reference to Exhibit 10.2 of BlackRock, Inc.'s Current Report on Form 8-K filed June 17, 2009
10.47	Exchange Agreement dated as of May 21, 2012 by and among PNC Bancorp, Inc., the Corporation and BlackRock, Inc.	Incorporated herein by reference to Exhibit 10.3 of BlackRock, Inc.'s Current Report on Form 8-K filed May 23, 2012
10.48.1	Distribution Agreement, dated January 16, 2014, between PNC Bank, National Association and the Dealers named therein, relating to the \$25 billion Global Bank Note Program for the Issue of Senior and Subordinated Bank Notes	Incorporated by reference to Exhibit 10.47 of the Corporation's Annual Report on Form 10-K for the year ended December 31, 2014
10.48.2	Amendment No. 1 to Distribution Agreement, dated May 22, 2015, between PNC Bank, National Association and the Dealers named therein, relating to the \$30 billion Global Bank Note Program for the Issue of Senior and Subordinated Bank Notes	Incorporated herein by reference to Exhibit 10.47.2 of the Corporation's 2nd Quarter 2015 Form 10-Q
10.48.3	Amendment No. 2 to Distribution Agreement, dated May 27, 2016, between PNC Bank, National Association and the Dealers named therein, relating to the \$40 billion Global Bank Note Program for the Issue of Senior and Subordinated Bank Notes	Incorporated herein by reference to Exhibit 10.48.3 of the Corporation's 2nd Quarter 2016 Form 10-Q
10.49	Stock Purchase Agreement, dated as of February 1, 2010, by and between the Corporation and The Bank of New York Mellon Corporation	Incorporated herein by reference to Exhibit 2.1 of the Corporation's Current Report on Form 8-K filed February 3, 2010
12.1	Computation of Ratio of Earnings to Fixed Charges	Filed herewith
12.2	Computation of Ratio of Earnings to Fixed Charges and Preferred Dividends	Filed herewith
21	Schedule of Certain Subsidiaries of the Corporation	Filed herewith
23.1	Consent of PricewaterhouseCoopers LLP, the Corporation's Independent Registered Public Accounting Firm	Filed herewith
23.2	Consent of Deloitte & Touche LLP, Independent Registered Public Accounting Firm of BlackRock, Inc.	Filed herewith
24	Powers of Attorney	Filed herewith
31.1	Certification of Chief Executive Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002	Filed herewith
31.2	Certification of Chief Financial Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002	Filed herewith
32.1	Certification of Chief Executive Officer pursuant to 18 U.S.C. Section 1350	Filed herewith
32.2	Certification of Chief Financial Officer pursuant to 18 U.S.C. Section 1350	Filed herewith
99.1	Audited consolidated financial statements of BlackRock, Inc. as of December 31, 2017 and 2016 and for each of the three years ended December 31, 2017	Filed herewith

99.2	Consent order between The PNC Financial Services Group, Inc. and the Board of Governors of the Federal Reserve System	Incorporated herein by reference to Exhibit 99.1 of the Corporation's Current Report on Form 8-K filed April 14, 2011
101	Interactive Data File (XBRL)	Filed herewith

+ Incorporated document references to filings by the Corporation are to SEC File No. 001-09718, to filings by National City Corporation are to SEC File No. 001-10074, to filings by BlackRock through its second quarter 2006 Form 10-Q (referred to herein as Old BlackRock) are to BlackRock Holdco 2, Inc. SEC File No. 001-15305, and to filings by BlackRock, Inc. are to SEC File No. 001-33099.

* Denotes management contract or compensatory plan.

You can obtain copies of these Exhibits electronically at the SEC's website at www.sec.gov or by mail from the Public Reference Section of the SEC at 100 F Street, N.E., Washington, D.C. 20549 at prescribed rates. The Exhibits are also available as part of this Form 10-K on PNC's corporate website at www.pnc.com/secfilings. Shareholders and bondholders may also obtain copies of Exhibits without charge by contacting Shareholder Relations at (800) 843-2206 or via e-mail at investor.relations@pnc.com. The Interactive Data File (XBRL) exhibit is only available electronically.

ITEM 16 - FORM 10-K SUMMARY

None.

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

The PNC Financial Services Group, Inc.

(Registrant)

By: /s/ Robert Q. Reilly

Robert Q. Reilly Executive Vice President and Chief Financial Officer February 28, 2018

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of The PNC Financial Services Group, Inc. and in the capacities indicated on February 28, 2018.

Signature	Capacities
/s/ William S. Demchak	Chairman, President, Chief Executive Officer and Director
William S. Demchak	(Principal Executive Officer)
/s/ Robert Q. Reilly	Executive Vice President and Chief Financial Officer
Robert Q. Reilly	(Principal Financial Officer)
/s/ Gregory H. Kozich	Senior Vice President and Controller
Gregory H. Kozich	(Principal Accounting Officer)
* Charles E. Bunch; Debra A. Cafaro; Marjorie Rodgers Cheshire; Andrew T. Feldstein; Daniel R. Hesse; Richard B. Kelson; Linda R. Medler, Jane G. Pepper; Martin Pfinsgraff; Donald J. Shepard; Lorene K. Steffes; Dennis F. Strigl; Michael J. Ward; Gregory D. Wasson	Directors

*By: /s/ Christi Davis

Christi Davis, Attorney-in-Fact, pursuant to Powers of Attorney filed herewith

CERTIFICATION OF CHIEF EXECUTIVE OFFICER

I, William S. Demchak, certify that:

- 1. I have reviewed this Annual Report on Form 10-K for the year ended December 31, 2017 of The PNC Financial Services Group, Inc.;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: February 28, 2018

/s/ William S. Demchak

William S. Demchak Chairman, President and Chief Executive Officer

CERTIFICATION OF CHIEF FINANCIAL OFFICER

I, Robert Q. Reilly, certify that:

- 1. I have reviewed this Annual Report on Form 10-K for the year ended December 31, 2017 of The PNC Financial Services Group, Inc.;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: February 28, 2018

/s/ Robert Q. Reilly

Robert Q. Reilly Executive Vice President and Chief Financial Officer

CERTIFICATION BY CHIEF EXECUTIVE OFFICER PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the Annual Report on Form 10-K for the year ended December 31, 2017 of The PNC Financial Services Group, Inc. (Corporation) as filed with the Securities and Exchange Commission on the date hereof (Report), I, William S. Demchak, Chairman, President and Chief Executive Officer of the Corporation, hereby certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, to the best of my knowledge, that:

(1) The Report fully complies with the requirements of Section 13(a) of the Securities Exchange Act of 1934; and

(2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Corporation for the dates and periods covered by the Report.

This certificate is being made for the exclusive purpose of compliance by the Chief Executive Officer of the Corporation with the requirements of Section 906 of the Sarbanes-Oxley Act of 2002, and may not be used by any person or for any reason other than as specifically required by law.

/s/ William S. Demchak William S. Demchak Chairman, President and Chief Executive Officer

February 28, 2018

CERTIFICATION BY CHIEF FINANCIAL OFFICER PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the Annual Report on Form 10-K for the year ended December 31, 2017 of The PNC Financial Services Group, Inc. (Corporation) as filed with the Securities and Exchange Commission on the date hereof (Report), I, Robert Q. Reilly, Executive Vice President and Chief Financial Officer of the Corporation, hereby certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, to the best of my knowledge, that:

(1) The Report fully complies with the requirements of Section 13(a) of the Securities Exchange Act of 1934; and

(2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Corporation for the dates and periods covered by the Report.

This certificate is being made for the exclusive purpose of compliance by the Chief Financial Officer of the Corporation with the requirements of Section 906 of the Sarbanes-Oxley Act of 2002, and may not be used by any person or for any reason other than as specifically required by law.

/s/ Robert Q. Reilly Robert O. Reilly

Executive Vice President and Chief Financial Officer

February 28, 2018

Stock Listing

The common stock of The PNC Financial Services Group, Inc. is listed on the New York Stock Exchange under the symbol PNC.

Common Stock Prices and Dividends Declared

The table below sets forth by quarter the range of high and low sale and quarter-end closing prices for The PNC Financial Services Group, Inc. common stock and the cash dividends declared per common share.

				CASH DIVIDENDS
	HIGH	LOW	CLOSE	DECLARED
2017 QUARTER				
First	\$ 131.83	\$ 113.66	\$ 120.24	\$.55
Second	128.25	115.45	124.87	.55
Third	135.73	119.77	134.77	.75
Fourth	147.28	130.46	144.29	.75
				\$ 2.60
2016 QUARTER				
First	\$ 94.26	\$ 77.67	\$ 84.57	\$.51
Second	90.85	77.40	81.39	.51
Third	91.39	77.86	90.09	.55
Fourth	118.57	87.34	116.96	.55
				\$ 2.12

Stock Transfer Agent and Registrar

Computershare Trust Company, N.A. 250 Royall Street Canton, MA 02021 800-982-7652 www.computershare.com/pnc

Shareholder Services

The PNC Financial Services Group, Inc. Dividend Reinvestment and Stock Purchase Plan enables registered holders of common stock to conveniently reinvest dividends and purchase additional common shares. Obtain a prospectus and enroll at www.computershare.com/pnc or contact Computershare at 800-982-7652. Direct deposit of dividends, online account access, sale of shares, and other services are available through Computershare.



Corporate Headquarters

The PNC Financial Services Group, Inc. The Tower at PNC Plaza 300 Fifth Avenue Pittsburgh, PA 15222-2401

