

Edgar Filing: RADIAN GROUP INC - Form 10-K

RADIAN GROUP INC

Form 10-K

February 28, 2019

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us-gaap:ShareBasedCompensationAwardTrancheTwoMember 2016-01-01 2016-12-31 0000890926
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**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**
Washington, D.C. 20549

FORM 10-K

(Mark One)

ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal year ended December 31, 2018

OR

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from _____ to _____

Commission file number 1-11356

RADIAN GROUP INC.

(Exact name of registrant as specified in its charter)

Delaware 23-2691170
(State or other jurisdiction of incorporation or organization) (I.R.S. Employer Identification No.)
1500 Market Street, Philadelphia, PA 19102
(Address of principal executive offices) (Zip Code)

(215) 231-1000

(Registrant's telephone number, including area code)

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

Title of each class Name of each exchange on which registered

Common Stock, \$.001 par value per share New York Stock Exchange

Preferred Stock Purchase Rights New York Stock Exchange

Securities registered pursuant to Section 12(g) of the Act: None

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. YES 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

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 NO

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Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted 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 such files). YES NO
Indicate by check mark if 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.

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

Large accelerated filer Accelerated filer Non-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.

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

As of June 30, 2018, the aggregate market value of the registrant's common stock held by non-affiliates of the registrant was \$3,449,403,478 based on the closing sale price as reported on the New York Stock Exchange. Excluded from this amount is the value of all shares beneficially owned by executive officers and directors of the registrant. These exclusions should not be deemed to constitute a representation or acknowledgment that any such individual is, in fact, an affiliate of the registrant or that there are not other persons or entities who may be deemed to be affiliates of the registrant.

The number of shares of common stock, \$.001 par value per share, of the registrant outstanding on February 25, 2019 was 213,657,506 shares.

DOCUMENTS INCORPORATED BY REFERENCE

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Table of Contents**GLOSSARY OF ABBREVIATIONS AND ACRONYMS**

The following list defines various abbreviations and acronyms used throughout this report, including the Business Section, Management's Discussion and Analysis of Financial Condition and Results of Operations, Consolidated Financial Statements, the Notes to Consolidated Financial Statements and the Financial Statement Schedules.

1995 Equity Plan	The Radian Group Inc. 1995 Equity Compensation Plan
2008 Equity Plan	The Radian Group Inc. 2008 Equity Compensation Plan
2014 Equity Plan	The Radian Group Inc. 2014 Equity Compensation Plan, which was amended and restated as the Radian Group Inc. Equity Compensation Plan on May 10, 2017
2014 Master Policy	Radian Guaranty's master insurance policy, setting forth the terms and conditions of our mortgage insurance coverage, which became effective October 1, 2014
2016 Single Premium QSR Agreement	Quota share reinsurance agreement entered into with a panel of third-party reinsurance providers in the first quarter of 2016 and subsequently amended in the fourth quarter of 2017
2018 Single Premium QSR Agreement	Quota share reinsurance agreement entered into with a panel of third-party reinsurance providers in October 2017 to cede a portion of Single Premium NIW beginning January 1, 2018
ABS	Asset-backed securities
Alt-A	Alternative-A loans, representing loans for which the underwriting documentation is generally limited as compared to fully documented loans (considered a non-prime loan grade)
Amended and Restated Equity Compensation Plan	The Radian Group Inc. Equity Compensation Plan, which amended and restated the 2014 Equity Plan and was approved by our stockholders on May 10, 2017
Amended and Restated Radian Group Inc. ESPP	The Radian Group Inc. Employee Stock Purchase Plan, as approved by our stockholders on May 9, 2018
Assured	Assured Guaranty Corp., a subsidiary of Assured Guaranty Ltd.
Available Assets	As defined in the PMIERS, assets primarily including the liquid assets of a mortgage insurer, and reduced by premiums received but not yet earned
Back-end	With respect to credit risk transfer programs established by the GSEs, policies written on loans that are already part of an existing GSE portfolio, as contrasted with loans that are to be purchased by the GSEs in the future
Borrower	With respect to our securities lending agreements, the third-party institutions to which we loan certain securities in our investment portfolio for short periods of time
CCF	Conservatorship Capital Framework
CFPB	Consumer Financial Protection Bureau
Claim Curtailment	Our legal right, under certain conditions, to reduce the amount of a claim, including due to servicer negligence
Claim Denial	Our legal right, under certain conditions, to deny a claim
Claim Severity	The total claim amount paid divided by the original coverage amount
Clayton	Clayton Holdings LLC, a Delaware domiciled indirect non-insurance subsidiary of Radian Group
CMBS	Commercial mortgage-backed securities
Convertible Senior Notes due 2017	Our 3.000% convertible unsecured senior notes due November 2017 (\$450 million original principal amount)
Convertible Senior Notes due 2019	Our 2.250% convertible unsecured senior notes due March 2019 (\$400 million original principal amount)
Cures	Loans that were in default as of the beginning of a period and are no longer in default because payments were received such that the loan is no longer 60 or more days past due
Default to Claim Rate	The percentage of defaulted loans that are assumed to result in a claim

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Deficiency Amount	The assessed tax liabilities, penalties and interest associated with a formal Notice of Deficiency from the IRS
Discrete Item(s)	For tax calculation purposes, certain items that are required to be accounted for in the provision for income taxes as they occur, and are not considered components of the estimated annualized effective tax rate for purposes of reporting interim results. Generally, these are items that are: (i) clearly defined (such as changes in tax rate or tax law); (ii) infrequent or unusual in nature; or (iii) gains or losses that are not components of continuing operating income, such as income from discontinued operations or losses reflected as components of other comprehensive income. These items impact the difference between the statutory rate and Radian's effective tax rate.
Dodd-Frank Act	Dodd-Frank Wall Street Reform and Consumer Protection Act, as amended
Eagle Re	Eagle Re 2018-1 Ltd., an unaffiliated special purpose reinsurer (a variable interest entity) domiciled in Bermuda
EnTitle Direct	EnTitle Direct Group, Inc., a wholly-owned indirect subsidiary of Radian Group, acquired in March 2018
EnTitle Insurance	EnTitle Insurance Company, a wholly-owned subsidiary of EnTitle Direct
Equity Plans	The 1995 Equity Plan, the 2008 Equity Plan and the Amended and Restated Equity Compensation Plan, together
ERM	Enterprise Risk Management
Excess-of-Loss Program	The credit risk protection obtained by Radian Guaranty in November 2018, including: (i) the excess-of-loss reinsurance agreement with Eagle Re, in connection with the issuance by Eagle Re of mortgage insurance-linked notes and (ii) a separate excess-of-loss reinsurance agreement with a third-party reinsurer. Excess-of-loss reinsurance is a type of reinsurance that indemnifies the ceding company against loss in excess of a specific agreed limit, up to a specified sum.
Exchange Act	Securities Exchange Act of 1934, as amended
Extraordinary Distribution	A dividend or distribution of capital that is required to be approved by an insurance company's primary regulator that is greater than would be permitted as an ordinary distribution (which does not require regulatory approval)
Fannie Mae	Federal National Mortgage Association
FASB	Financial Accounting Standards Board
FEMA	Federal Emergency Management Agency, an agency of the U.S. Department of Homeland Security
FEMA Designated Area	Generally, an area that has been subject to a disaster, designated by FEMA as an individual assistance disaster area for the purpose of determining eligibility for various forms of federal assistance
FHA	Federal Housing Administration
FHFA	Federal Housing Finance Agency
FHLB	Federal Home Loan Bank of Pittsburgh
FICO	Fair Isaac Corporation ("FICO") credit scores, for Radian's portfolio statistics, represent the borrower's credit score at origination and, in circumstances where there is more than one borrower, the FICO score for the primary borrower is utilized
Five Bridges	Five Bridges Advisors, LLC. Radian acquired the assets of Five Bridges in December 2018.
Flow Basis	With respect to mortgage insurance, includes mortgage insurance policies that are written on an individual loan basis as each loan is originated or on an aggregated basis (in which each individual loan in a group of loans is insured in a single transaction, typically shortly after the loans have been originated). Among other items, Flow Basis business excludes Pool Insurance, which we originated prior to 2009.
Foreclosure Stage Default	The Stage of Default indicating that the foreclosure sale has been scheduled or held
Freddie Mac	Federal Home Loan Mortgage Corporation
Freddie Mac Agreement	The Master Transaction Agreement between Radian Guaranty and Freddie Mac entered into in August 2013

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Front-end	With respect to credit risk transfer programs established by the GSEs, policies written on loans that are to be purchased by the GSEs in the future, as contrasted with loans that are already part of an existing GSE portfolio
GAAP	Generally accepted accounting principles in the U.S., as amended from time to time
Green River Capital	Green River Capital LLC, a wholly-owned subsidiary of Clayton
GSE(s)	Government-Sponsored Enterprises (Fannie Mae and Freddie Mac)
HAMP	Homeowner Affordable Modification Program
HARP	Home Affordable Refinance Program
HPA	Homeowners Protection Act of 1998
IBNR	Losses incurred but not reported
IIF	Insurance in force, equal to the aggregate unpaid principal balances of the underlying loans
Independent Settlement Services	Independent Settlement Services, LLC, a wholly-owned indirect subsidiary of Radian Group, acquired in November 2018
IRC	Internal Revenue Code of 1986, as amended
IRS	Internal Revenue Service
IRS Matter	Our dispute with the IRS related to the assessed tax liabilities, penalties and interest from the IRS's examination of our 2000 through 2007 consolidated federal income tax returns. See Note 10 of Notes to Consolidated Financial Statements for more information.
LAE	Loss adjustment expenses, which include the cost of investigating and adjusting losses and paying claims
Loss Mitigation Activity/Activities	Activities such as Rescissions, Claim Denials, Claim Curtailments and cancellations
LTV	Loan-to-value ratio, calculated as the percentage of the original loan amount to the original value of the property
Master Policies	The Prior Master Policy and the 2014 Master Policy, together
Minimum Required Assets	A risk-based minimum required asset amount, as defined in the PMIERS, calculated based on net RIF (RIF, net of credits permitted for reinsurance) and a variety of measures related to expected credit performance and other factors
Model Act	Mortgage Guaranty Insurance Model Act, as issued by the NAIC to establish minimum capital and surplus requirements for mortgage insurers
Monthly and Other Premiums	Insurance policies where premiums are paid on a monthly or other installment basis, in contrast to Single Premium Policies
Monthly Premium Policies	Insurance policies where premiums are paid on a monthly installment basis
Moody's	Moody's Investors Service
Mortgage Insurance	Radian's mortgage insurance business segment, which provides credit-related insurance coverage, principally through private mortgage insurance, as well as other credit risk management solutions to mortgage lending institutions and mortgage credit investors
MPP Requirement	Certain states' statutory or regulatory risk-based capital requirement that the mortgage insurer must maintain a minimum policyholder position, which is calculated based on both risk and surplus levels
NAIC	National Association of Insurance Commissioners
NIW	New insurance written
NOL	Net operating loss; for tax purposes, accumulated during years a company reported more tax deductions than taxable income. NOLs may be carried back or carried forward a certain number of years, depending on various factors which can reduce a company's tax liability
Notices of Deficiency	Formal letters from the IRS informing the taxpayer of an IRS determination of tax deficiency and appeal rights
OCI	Other comprehensive income (loss)
PDR	Premium deficiency reserve

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Persistency Rate	The percentage of IIF that remains in force over a period of time
PMIERS	Private Mortgage Insurer Eligibility Requirements effective on December 31, 2015, issued by the GSEs under oversight of the FHFA to set forth requirements an approved insurer must meet and maintain to provide mortgage guaranty insurance on loans acquired by the GSEs
PMIERS 2.0	Revised PMIERS issued by the GSEs on September 27, 2018, which will become effective on March 31, 2019
Pool Insurance	Pool Insurance differs from primary insurance in that our maximum liability is not limited to a specific coverage percentage on an individual mortgage loan. Instead, an aggregate exposure limit, or “stop loss,” is applied to the initial aggregate loan balance on a group or “pool” of mortgages.
Prior Master Policy	Radian Guaranty’s master insurance policy, setting forth the terms and conditions of our mortgage insurance coverage, which was in effect prior to the effective date of the 2014 Master Policy
QSR Program	The quota share reinsurance agreements entered into with a third-party reinsurance provider in the second and fourth quarters of 2012, together
Radian	Radian Group Inc. together with its consolidated subsidiaries
Radian Asset Assurance	Radian Asset Assurance Inc., a New York domiciled insurance company that was formerly a subsidiary of Radian Guaranty
Radian Asset Assurance Stock Purchase Agreement	The Stock Purchase Agreement dated December 22, 2014, between Radian Guaranty and Assured to sell Radian Asset Assurance to Assured
Radian Group	Radian Group Inc.
Radian Guaranty	Radian Guaranty Inc., a Pennsylvania domiciled insurance subsidiary of Radian Group
Radian Guaranty Reinsurance	Radian Guaranty Reinsurance Inc., a Pennsylvania domiciled insurance subsidiary of Enhance Financial Services Group Inc., a New York domiciled non-insurance subsidiary of Radian Group
Radian Insurance	Radian Insurance Inc., a Pennsylvania domiciled insurance subsidiary of Radian Group
Radian Mortgage Assurance	Radian Mortgage Assurance Inc., a Pennsylvania domiciled insurance subsidiary of Radian Group
Radian Mortgage Insurance	Radian Mortgage Insurance Inc., a Pennsylvania domiciled subsidiary of Radian Group
Radian Reinsurance	Radian Reinsurance Inc., a Pennsylvania domiciled insurance subsidiary of Radian Group
Radian Settlement Services	Radian Settlement Services Inc., a wholly-owned subsidiary of Clayton, formerly known as ValuAmerica
RBC States	Risk-based capital states, which are those states that currently impose a statutory or regulatory risk-based capital requirement
Red Bell	Red Bell Real Estate, LLC, a wholly-owned subsidiary of Clayton
Reinstatements	Reversals of previous Rescissions, Claim Denials and Claim Curtailments
REMIC	Real Estate Mortgage Investment Conduit
REO	Real estate owned
Rescission	Our legal right, under certain conditions, to unilaterally rescind coverage on our mortgage insurance policies if we determine that a loan did not qualify for insurance
RESPA	Real Estate Settlement Procedures Act of 1974, as amended
RIF	Risk in force; for primary insurance, RIF is equal to the underlying loan unpaid principal balance multiplied by the insurance coverage percentage, whereas for Pool Insurance it represents the remaining exposure under the agreements
Risk-to-capital	Under certain state regulations, a minimum ratio of statutory capital calculated relative to the level of net RIF
RMBS	Residential mortgage-backed securities
RSU	Restricted stock unit

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S&P	Standard & Poor's Financial Services LLC
SAFE Act	Secure and Fair Enforcement for Mortgage Licensing Act, as amended
SAPP	Statutory accounting principles and practices, including those required or permitted, if applicable, by the insurance departments of the respective states of domicile of our insurance subsidiaries
SEC	United States Securities and Exchange Commission
Senior Notes due 2017	Our 9.000% unsecured senior notes due June 2017 (\$195.5 million original principal amount, of which the remaining outstanding principal was redeemed in August 2016)
Senior Notes due 2019	Our 5.500% unsecured senior notes due June 2019 (\$300 million original principal amount)
Senior Notes due 2020	Our 5.250% unsecured senior notes due June 2020 (\$350 million original principal amount)
Senior Notes due 2021	Our 7.000% unsecured senior notes due March 2021 (\$350 million original principal amount)
Senior Notes due 2024	Our 4.500% unsecured senior notes due October 2024 (\$450 million original principal amount)
Services	Radian's Services business segment, which is primarily a fee-for-service business that offers a broad array of mortgage, real estate and title services to market participants across the mortgage and real estate value chain
Single Premium NIW / RIF / IIF	NIW, RIF or IIF, respectively, on Single Premium Policies
Single Premium Policy / Policies	Insurance policies where premiums are paid in a single payment, which includes policies written on an individual basis (as each loan is originated) and on an aggregated basis (in which each individual loan in a group of loans is insured in a single transaction, typically shortly after the loans have been originated)
Single Premium QSR Program	The 2016 Single Premium QSR Agreement and the 2018 Single Premium QSR Agreement, together
Stage of Default	The stage a loan is in relative to the foreclosure process, based on whether a foreclosure sale has been scheduled or held
Statutory RBC Requirement	Risk-based capital requirement imposed by the RBC States, requiring a minimum surplus level and, in certain states, a minimum ratio of statutory capital relative to the level of risk
Surplus Note	An intercompany 0.000% surplus note issued by Radian Guaranty to Radian Group
TCJA	H.R. 1, known as the Tax Cuts and Jobs Act, signed into law on December 22, 2017
Time in Default	The time period from the point a loan reaches default status (based on the month the default occurred) to the current reporting date
TRID	Truth in Lending Act - RESPA Integrated Disclosure
U.S.	The United States of America
U.S. Treasury	United States Department of the Treasury
VA	U.S. Department of Veterans Affairs
ValuAmerica	ValuAmerica, Inc., a wholly-owned subsidiary of Clayton, renamed in 2018 to Radian Settlement Services Inc.

Table of ContentsGlossary**Cautionary Note Regarding Forward-Looking Statements—Safe Harbor Provisions**

All statements in this report that address events, developments or results that we expect or anticipate may occur in the future are “forward-looking statements” within the meaning of Section 27A of the Securities Act of 1933, Section 21E of the Exchange Act and the U.S. Private Securities Litigation Reform Act of 1995. In most cases, forward-looking statements may be identified by words such as “anticipate,” “may,” “will,” “could,” “should,” “would,” “expect,” “intend,” “plan,” “contemplate,” “believe,” “estimate,” “predict,” “project,” “potential,” “continue,” “seek,” “strategy,” “future,” “likely” or the other variations on these words and other similar expressions. These statements, which may include, without limitation, projections regarding our future performance and financial condition, are made on the basis of management’s current views and assumptions with respect to future events. Any forward-looking statement is not a guarantee of future performance and actual results could differ materially from those contained in the forward-looking statement. These statements speak only as of the date they were made, and we undertake no obligation to update or revise any forward-looking statements, whether as a result of new information, future events or otherwise. We operate in a changing environment where new risks emerge from time to time and it is not possible for us to predict all risks that may affect us. The forward-looking statements, as well as our prospects as a whole, are subject to risks and uncertainties that could cause actual results to differ materially from those set forth in the forward-looking statements. These risks and uncertainties include, without limitation:

- changes in economic and political conditions that impact the size of the insurable market, the credit performance of our insured portfolio, and our business prospects;
- changes in the way customers, investors, ratings agencies, regulators or legislators perceive our performance, financial strength and future prospects;
- Radian Guaranty’s ability to remain eligible under the PMIERS and other applicable requirements imposed by the FHFA and by the GSEs to insure loans purchased by the GSEs, including PMIERS 2.0 and potential future changes to the PMIERS which, among other things, may be impacted by the general economic environment and housing market, as well as the proposed CCF that would establish capital requirements for the GSEs, if the CCF is finalized;
- our ability to successfully execute and implement our capital plans, including plans for expanding our risk distribution strategy through the capital markets and reinsurance markets, and to maintain sufficient holding company liquidity to meet our short- and long-term liquidity needs;
- our ability to successfully execute and implement our business plans and strategies, including plans and strategies to reposition and grow our Services segment as well as plans and strategies that require GSE and/or regulatory approvals and licenses;
- our ability to maintain an adequate level of capital in our insurance subsidiaries to satisfy existing and future state regulatory requirements;
- changes in the charters or business practices of, or rules or regulations imposed by or applicable to, the GSEs, which may include changes in the requirements to remain an approved insurer to the GSEs, the GSEs’ interpretation and application of the PMIERS, as well as changes impacting loans purchased by the GSEs, such as the GSEs’ requirements regarding mortgage credit and loan size and the GSEs’ pricing;
- changes in the current housing finance system in the U.S., including the role of the FHA, the GSEs and private mortgage insurers in this system;
- any disruption in the servicing of mortgages covered by our insurance policies, as well as poor servicer performance;
- a significant decrease in the Persistency Rates of our mortgage insurance on monthly premium products;
- competition in our mortgage insurance business, including price competition and competition from the FHA and VA as well as from other forms of credit enhancement;
- the effect of the Dodd-Frank Act on the financial services industry in general, and on our businesses in particular, including future changes to the QM Rule;
- legislative and regulatory activity (or inactivity), including the adoption of (or failure to adopt) new laws and regulations, or changes in existing laws and regulations, or the way they are interpreted or applied;
- legal and regulatory claims, assertions, actions, reviews, audits, inquiries and investigations that could result in adverse judgments, settlements, fines, injunctions, restitutions or other relief that could require significant

expenditures or have other effects on our business;

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the amount and timing of potential settlements, payments or adjustments associated with federal or other tax examinations;

the possibility that we may fail to estimate accurately the likelihood, magnitude and timing of losses in establishing loss reserves for our mortgage insurance business or to accurately calculate and/or project our Available Assets and Minimum Required Assets under the PMIERS, including PMIERS 2.0, which will be impacted by, among other things, the size and mix of our IIF, the level of defaults in our portfolio, the level of cash flow generated by our insurance operations and our risk distribution strategies;

volatility in our results of operations caused by changes in the fair value of our assets and liabilities, including a significant portion of our investment portfolio;

potential future impairment charges related to our goodwill and other acquired intangible assets;

changes in GAAP or SAPP rules and guidance, or their interpretation;

our ability to attract and retain key employees; and

legal and other limitations on dividends and other amounts we may receive from our subsidiaries.

For more information regarding these risks and uncertainties as well as certain additional risks that we face, you should refer to the Risk Factors detailed in Item 1A, and to subsequent reports filed from time to time with the SEC. We caution you not to place undue reliance on these forward-looking statements, which are current only as of the date on which we issued this report. We do not intend to, and we disclaim any duty or obligation to, update or revise any forward-looking statements to reflect new information or future events or for any other reason.

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PART I

Item 1. Business.

General

We are a diversified mortgage and real estate services business. We provide mortgage insurance and products and services to the real estate and mortgage finance industries through our two business segments—Mortgage Insurance and Services. Our Mortgage Insurance segment provides credit-related insurance coverage, principally through private mortgage insurance, as well as other credit risk management solutions to mortgage lending institutions and mortgage credit investors. We provide our mortgage insurance products and services mainly through our wholly-owned subsidiary, Radian Guaranty. Our Services segment is primarily a fee-for-service business that offers a broad array of mortgage, real estate and title services to market participants across the mortgage and real estate value chain. These services include technology and turn-key solutions, which provide information and other resources used to originate, evaluate, acquire, securitize, service and monitor residential real estate and loans secured by residential real estate. These services are primarily provided to mortgage lenders, financial institutions, investors and government entities. In addition, we provide title insurance to mortgage lenders as well as directly to borrowers. Our mortgage services include transaction management services such as loan review, RMBS securitization and distressed asset reviews, review and valuation services related to single family rental properties, servicer and loan surveillance and underwriting. Our real estate services include software as a service solutions and platforms, as well as managed services, such as REO asset management, real estate valuation services and real estate brokerage services. Our title services provide a comprehensive suite of title insurance products, title settlement services and both traditional and digital closing services. We provide our Services offerings primarily through our subsidiaries, including Clayton, Green River Capital, Radian Settlement Services and Red Bell. In 2018, we also acquired the businesses of EnTitle Direct (in March 2018) and Independent Settlement Services (in November 2018), as well as the assets of Five Bridges (in December 2018), to enhance our Services offerings.

Radian Group serves as the holding company for our insurance and other subsidiaries and does not have any operations of its own.

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Part I Item 1. Business

2018 Highlights. Below are highlights of our key accomplishments that furthered our strategic objectives and contributed to our financial and operating results during 2018.

- Wrote \$56.5 billion of NIW on a Flow Basis, the highest flow volume in Radian's 40-year history
- Represents a 5% increase over 2017
- Grew primary IIF by 10%, from \$200.7 billion at December 31, 2017 to \$221.4 billion at December 31, 2018
- Earned pretax income of \$684.2 million in 2018, compared to \$346.7 million in 2017
- Grew adjusted pretax operating income to \$745.5 million, an increase of 21% compared to \$617.2 million for 2017 ⁽¹⁾
- Improved composition of mortgage insurance portfolio
- 94% of our primary RIF consists of business written after 2008, including HARP loans
- Increased risk-based pricing granularity and our volume of higher value products
- Took steps to optimize our capital and liquidity position
- Repurchased over 3 million shares of Radian Group's common stock
- Added \$450 million to Radian Group liquidity as a result of Radian Guaranty's return of \$450 million in capital to Radian Group in December 2018
- See "Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations—Liquidity and Capital Resources—*Radian Group—Short-Term Liquidity Needs*"
- Expanded our risk distribution strategy to optimize the amounts and types of capital and risk distribution deployed against insured risk in order to: (i) support our overall capital plans; (ii) lower our cost of capital; and (iii) reduce portfolio risk and financial volatility through economic cycles
- Executed the mortgage insurance industry's first simultaneous insurance-linked note and excess-of-loss reinsurance placement totaling \$455 million
- See "Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations—Overview—*Other 2018 Developments—Reinsurance*"
- Increased excess of Available Assets over Minimum Required Assets under PMIERs to \$567 million, or 19% of Minimum Required Assets
- Finalized a settlement with the IRS regarding the IRS Matter
- Launched our new branding to reflect One Radian, beginning the process to unite all of our businesses under one brand
- Aligned our sales team to provide integrated enterprise solutions to our customers

Adjusted pretax operating income is a non-GAAP measure. See "Item 7. Management's Discussion and Analysis of Financial (1) Condition and Results of Operations—Results of Operations—Consolidated—*Use of Non-GAAP Financial Measures*" for the definition and reconciliation of this measure to the most comparable GAAP measure, pretax income.

For additional information regarding these items as well as other factors impacting our business and financial results in 2018, see "Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations."

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Part I Item 1. Business

Business Strategy. Radian’s objectives include driving strong growth, increasing value creation and providing attractive stockholder returns. Consistent with these objectives, our business strategy, as highlighted below, is focused on growing our businesses and diversifying our revenue sources, while at the same time enhancing our operations and developing a one-company market view by integrating our product and services offerings more effectively.

Write high-quality and profitable NIW to drive future earnings, in a manner that enhances the long-term economic value of our insured mortgage portfolio

Leverage our core competencies and increase our competitive differentiation in order to:

Grow our traditional mortgage insurance business in innovative ways

Expand our presence in the mortgage and real estate value chain beyond traditional mortgage insurance

Enhance our value to customers with increased diversification of services delivered by our integrated team

Maintain strong comprehensive enterprise risk management based on sound data and analytics

Enhance the quality, efficiency and performance of our operations and delivery of products and services

Manage our capital and financial flexibility to optimize stockholder value

Drive positive operating leverage by maintaining accretive revenue growth and effective expense management

We utilize various tools to assess the long-term economic value of our portfolio in order to identify opportunities to optimize stockholder value. For our Mortgage Insurance business, we evaluate the long-term economic value of our existing and future insured portfolio by using a measure that incorporates expected lifetime returns for our insurance policies, taking into consideration projected premiums, credit losses, investment income, operating expenses and taxes. These lifetime cash flows are then offset by the estimated cost of required capital, derived from our average cost of capital, to arrive at an estimated long-term economic value of our portfolio. We use this economic value to assist us in evaluating various portfolio strategies.

A key element of our business strategy is to use our Services segment to diversify our business and revenue streams by increasing our participation in multiple facets of the residential real estate and mortgage finance markets. In 2017, we undertook a strategic review of our Services business and made several decisions with respect to the business strategy that are designed to reposition this business to drive future growth and profitability. Following this strategic review, we committed to a restructuring plan and are focusing our efforts on offering mortgage, real estate and title services that we believe will satisfy demand in the market, diversify our revenue sources, strengthen our existing mortgage insurance customer relationships, attract new customers and differentiate us from our mortgage insurance peers. See “Services—Services Business Overview.”

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Part I Item 1. Business

Through the combination of our Mortgage Insurance and Services business segments, our broad array of capabilities within the primary stages of the mortgage value chain are illustrated below.

Corporate Background. Radian Group has been incorporated as a business corporation under the laws of the State of Delaware since 1991. Our principal executive offices are located at 1500 Market Street, Philadelphia, Pennsylvania 19102, and our telephone number is (215) 231-1000.

Additional Information. Our website address is www.radian.biz. Copies of our Annual Reports on Form 10-K, Quarterly Reports on Form 10-Q, Current Reports on Form 8-K, as well as any amendments to those reports, are available free of charge through our website as soon as reasonably practicable after they are electronically filed with, or furnished to, the SEC. In addition, our guidelines of corporate governance, code of business conduct and ethics (which includes the code of ethics applicable to our chief executive officer, principal financial officer and principal accounting officer) and the governing charters for each standing committee of Radian Group's board of directors are available free of charge on our website, as well as in print, to any stockholder upon request.

The public may read materials we file with the SEC, including reports, proxy and information statements, and other information, on the Internet site maintained by the SEC. The address of that site is www.sec.gov.

The above references to our website and the SEC's website do not constitute incorporation by reference of the information contained on the websites and such information should not be considered part of this document.

Operating Environment

As a seller of mortgage credit protection and other credit risk management solutions, as well as a provider of mortgage, real estate and title services, the demand for our products and services is largely driven by the macroeconomic environment generally, and more specifically by the health of the housing, mortgage finance and related real estate markets.

Mortgage Insurance. Our mortgage insurance business is impacted by specific macroeconomic conditions and events that impact the mortgage origination environment and the credit performance of our portfolio of insured loans. The improvement in macroeconomic conditions since the financial crisis of 2007-2008, together with tighter credit requirements on new loans and an improvement in loan servicing, has contributed to the positive credit trends in our mortgage insurance portfolio, including a

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lower level of new defaults and higher cure rates. Although this more restrictive credit environment has improved overall credit quality, it also has made it more challenging for many first-time home buyers to finance a home. In response, lenders and the GSEs recently have expanded their mortgage lending products, including to accommodate higher LTVs and debt-to-income ratios to address first-time home buyer demand and affordability considerations. Among other factors, private mortgage insurance industry volumes are impacted by total mortgage origination volumes and the mix between mortgage originations that are for purchased homes versus refinancings of existing mortgages. Generally, mortgage insurance penetration in the overall insurable mortgage market has been three to five times higher for purchase originations than for refinancings. As a result, despite an overall reduction in mortgage origination volume in 2018 compared to 2017 due to reduced refinancings, the private mortgage insurance market was larger in 2018 compared to 2017. Industry forecasts for 2019 project a mortgage origination market comparable to the market in 2018; however, purchase loan volume is expected to continue to increase, which is a favorable trend for private mortgage insurance. Given our expected mortgage insurance penetration rates, we expect the private mortgage insurance market in 2019 to be comparable to 2018. Based on industry forecasts and our projections, we currently expect our NIW for 2019 to be in the range of \$50 billion.

The environment for private mortgage insurers is highly competitive. We compete with other private mortgage insurers primarily on the basis of price, underwriting guidelines, overall service, customer relationships, perceived financial strength and reputation. In addition to other private mortgage insurers, we compete with governmental agencies, principally the FHA and the VA. See “Mortgage Insurance—Competition.”

Services. The macroeconomic conditions and other events that impact the housing, mortgage finance and related real estate markets also affect the demand for our mortgage, real estate and title services offered through our Services business segment. Sales volume in our Services business varies based on the overall activity in the housing and mortgage finance markets and the health of related industries. While non-GSE or “private label” securitization remains limited compared to the pre-financial crisis market, this market continued to expand in 2018 due to larger institutions re-entering the market, suggesting increased potential growth in 2019. Similarly, the single-family rental market continued to experience strong demand in 2018, driven in part by early refinance activity in the rising interest rate environment, as well as a GSE program that drove volume, but was later suspended at the end of 2018. While regulatory demands on mortgage market participants continue to be significant following the financial crisis, regulatory enforcement actions on mortgage industry participants have been less frequent, reducing the demand for our servicing quality control services as target customers form alternative strategies on how best to manage risk in the current and projected environment. Post-financial crisis, REO inventory levels also continue to decline due to lower delinquencies and foreclosure activity, reducing demand for our REO asset management services. Further, as the mortgage market continues to develop post-financial crisis, alternatives for managing costs have become more critical to the overall value proposition for market participants. As a result, we have observed increasing market trends towards use of non-appraisal valuation alternatives, which we expect will continue to grow. See “Item 7. Management’s Discussion and Analysis of Financial Condition and Results of Operations—Overview—*Business Strategy*.” We believe that the combination of our mortgage insurance business with our unique set of diversified mortgage, real estate and title services provides us with an opportunity to become increasingly more relevant to our customers and that this combination serves as a competitive differentiator for us compared to other private mortgage insurance companies.

Regulatory Environment

Our subsidiaries are subject to comprehensive regulations and other requirements. State insurance regulators impose various capital requirements on our mortgage insurance subsidiaries, including Risk-to-capital, other risk-based capital measures and surplus requirements. In addition, the GSEs, as the largest purchasers of conventional mortgage loans and therefore the primary beneficiaries of most of our mortgage insurance, impose eligibility requirements, or PMIERS, that private mortgage insurers must satisfy to be approved to insure loans purchased by the GSEs. The PMIERS aim to ensure that approved insurers will possess the financial and operational capacity to serve as strong counterparties to the GSEs throughout various market conditions. The PMIERS are comprehensive, covering virtually all aspects of the business and operations of a private mortgage insurer. The PMIERS financial requirements require

that a mortgage insurer's Available Assets meet or exceed its Minimum Required Assets. Radian Guaranty currently is an approved mortgage insurer under the PMIERS and is in compliance with the PMIERS financial requirements. See "Regulation."

Changes in the charters or business practices of the GSEs, including the GSEs' interpretation and application of the PMIERS, can have a significant impact on our business. On September 27, 2018, the GSEs updated their eligibility requirements by issuing PMIERS 2.0, which will become effective on March 31, 2019. Radian expects to comply with PMIERS 2.0 and to maintain a significant excess of Available Assets over Minimum Required Assets (PMIERS "cushion") as of the effective date. If applied as of December 31, 2018, the changes under PMIERS 2.0 would not have resulted in a material change in Radian Guaranty's Minimum Required Assets, but would have reduced Radian Guaranty's Available Assets and therefore

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would have reduced Radian Guaranty's PMIERS cushion. The reduction in Radian Guaranty's Available Assets is primarily due to the elimination in PMIERS 2.0 of any credit for future premiums for insurance policies written prior to and including 2008, which is permitted under the current PMIERS. We expect the GSEs to continue to update the PMIERS periodically in the future, including potentially if and when the CCF is finalized. See "Regulation" and "Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations—Liquidity and Capital Resources—*Radian Group—Short-Term Liquidity Needs—Capital Support for Subsidiaries.*"

Mortgage Insurance**Mortgage Insurance Business Overview****Overview**

Our Mortgage Insurance segment provides credit-related insurance coverage, principally through private mortgage insurance, as well as other credit risk management solutions, to mortgage lending institutions and mortgage credit investors. Private mortgage insurance plays an important role in the U.S. housing finance system because it promotes affordable home ownership and helps protect mortgage lenders, investors and other beneficiaries by mitigating default-related losses on residential mortgage loans. Generally, these loans are made to home buyers who make down payments of less than 20% of the purchase price for their home or, in the case of refinancings, have less than 20% equity in their home. Private mortgage insurance also facilitates the sale of these loans in the secondary mortgage market, most of which are currently sold to the GSEs.

See "Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations—Key Factors Affecting Our Results—*Mortgage Insurance.*"

Mortgage Insurance Products

Primary Mortgage Insurance. Primary mortgage insurance provides protection against mortgage defaults at a specified coverage percentage. When there is a valid claim under primary mortgage insurance, the maximum liability is determined by multiplying the claim amount, which consists of the unpaid loan principal, plus past due interest and certain expenses associated with the default, by the coverage percentage. Claims may be settled for the maximum liability or for other amounts. See "—Claims Management" below.

We mainly provide primary mortgage insurance on an individual loan basis as each mortgage is originated, but we also can provide primary mortgage insurance on individual loans in an aggregate group of mortgages after they have been originated. We primarily write insurance in a "first loss" position, where we are responsible for the first losses incurred on an insured loan subject to a policy limit. See "—Mortgage Insurance Portfolio—*Mortgage Loan Characteristics.*"

The terms of our primary mortgage insurance coverage are set forth in a master insurance policy that we enter into with each of our customers. Our Master Policies are filed in each of the jurisdictions in which we conduct business. Among other things, our Master Policies set forth the terms and conditions of our mortgage insurance coverage, including: loan eligibility requirements; premium payment requirements; coverage term; provisions for policy administration, servicing standards and requirements; exclusions or reductions in coverage; claims payment and settlement procedures; and dispute resolution procedures. Although the mortgage insurance we write protects the lenders from a portion of losses resulting from loan defaults, it does not provide protection against property loss or physical damage. Among other exclusions, our Master Policies contain an exclusion against physical damage, including damage caused by hurricanes or other natural disasters. See "Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations—Overview—*Operating Environment—Hurricanes.*"

We wrote \$56.5 billion and \$53.9 billion of first-lien primary mortgage insurance in 2018 and 2017, respectively. Substantially all of our primary mortgage insurance written during 2018 and 2017 was written on a Flow Basis. The combination of our NIW and a higher Persistency Rate resulted in an increase in IIF, from \$200.7 billion at December 31, 2017 to \$221.4 billion at December 31, 2018. Our total direct primary mortgage insurance RIF was \$56.7 billion at December 31, 2018, compared to \$51.3 billion at December 31, 2017.

Other Mortgage Insurance Products. We also have other mortgage insurance products that had RIF of \$0.5 billion at December 31, 2018, as described below:

GSE Credit Risk Transfer. Part of our business strategy includes leveraging our core expertise in credit risk management and expanding our presence in the mortgage finance industry. We are currently participating in Front-end and Back-end credit risk transfer programs developed by Fannie Mae and Freddie Mac as part of their

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initiative to distribute mortgage credit risk and increase the role of private capital in the mortgage market. As of December 31, 2018, the total RIF under the Front-end and Back-end credit risk transfer transactions was \$196.8 million. We will only experience claims under these Front-end and Back-end credit risk transfer transactions if the borrower's equity, any existing primary mortgage insurance (if applicable) and the GSEs' retained risk are depleted. In participating in these GSE transactions, we assume incremental risk (beyond that which we typically cover in our traditional mortgage insurance business) associated with the risk of defaults caused by physical damage, including natural disasters such as hurricanes and wildfires, which is not covered by the underlying primary mortgage insurance. We regularly evaluate this risk, including the geographic diversity of the loans included in these transactions and our remote risk position, in assessing our participation in these transactions. See "Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations—Overview—*Business Strategy*."

Pool Insurance. Prior to 2008, we wrote Pool Insurance on a limited basis. At December 31, 2018, Pool Insurance made up only \$324.6 million of our total direct first-lien insurance RIF, as compared to \$339.0 million at December 31, 2017. With respect to our Pool Insurance, an aggregate exposure limit, or "stop loss" (usually between 1% and 10%), is generally applied to the initial aggregate loan balance on a group or "pool" of mortgages. In addition, an insured pool of mortgages may contain mortgages that are already covered by primary mortgage insurance. In these transactions, Pool Insurance is secondary to any primary mortgage insurance that exists on mortgages within the pool. Our Pool Insurance policies are privately negotiated and are separate from the Master Policies that we use for our primary mortgage insurance.

Non-Traditional Risk. In the past, we provided other forms of credit enhancement on residential mortgage assets. Our non-traditional products included mortgage insurance on second-lien mortgage loans and we also provided mortgage insurance on an international basis. As of December 31, 2018, we have terminated all of our international mortgage insurance. Our total amount of non-traditional risk was \$15.2 million at December 31, 2018, which consisted entirely of second-lien RIF, as compared to \$24.4 million at December 31, 2017.

Premium Rates

Primary Mortgage Insurance. A premium rate is determined when insurance coverage is requested on a mortgage, which is generally near the time of loan origination. Premiums for our mortgage insurance products are established based on performance models that consider a broad range of borrower, loan and property characteristics as well as current and projected market and economic conditions. Our premium rates are generally subject to regulation, and in most states where our insurance subsidiaries are licensed, our premiums must be filed, and in some cases approved, before their use. See "Regulation—State Regulation—*State Insurance Regulation*."

We establish our premium levels to be competitive within the mortgage insurance industry and to achieve an overall risk-adjusted rate of return on capital given our modeled performance expectations. Our actual returns may differ from our expectations based on changing market conditions and other factors. Among other factors, we set our premium rates based on assumptions about policy performance, including, without limitation, our expectations and assumptions about: (i) the likelihood of default; (ii) how long the policy will remain in place; (iii) the costs of acquiring and maintaining the insurance; (iv) taxes; and (v) the capital that is required to support the insurance. Our performance assumptions for claim frequency and policy life are developed based on data regarding our own historical experience, as well as data generated from independent, third-party sources.

Premiums on our mortgage insurance products are generally paid either on a monthly installment basis ("Monthly Premiums") or in a single payment ("Single Premiums") generally paid at the time of loan origination. There are also alternative products ("Other Premiums") where premiums may be paid on an annual installment basis or as a combination of up-front premium at origination plus a monthly installment. In addition, Other Premiums may be paid after loan origination or may include a refundable component. Some programs, subject to certain conditions, provide coverage for the life of the loan while others terminate when certain criteria are met. There are many factors that influence the types of premiums we receive, including: (i) the percentage of mortgage originations derived from refinancing transactions versus new home purchases; (ii) the customers with whom we do business (e.g., mix of Single Premium Policies and policies with Monthly and Other Premiums varies by customer); and (iii) the relative

premium levels we and our competitors set for the various forms of premiums offered.

Mortgage insurance premiums can be funded through a number of methods, and while the coverage remains for the benefit of the insured or third-party beneficiary, the premiums may be paid by the borrower or by the lender.

Borrower-paid mortgage insurance premiums are generally paid either through separate escrowed amounts or financed as a component of the mortgage loan amount. Lender-paid mortgage insurance premiums are paid by the lender and are typically passed through to

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the borrower in the form of additional origination fees or a higher interest rate on the mortgage note. Our Monthly and Other Premiums are generally established as either: (i) a fixed percentage of the loan's amortizing balance over the life of the policy or (ii) as a fixed percentage of the initial loan balance for a set period of time (typically 10 years), after which the premium declines to a lower fixed percentage for the remaining life of the policy.

The impact of market conditions on our returns will vary based on, among other factors, whether the insurance is borrower-paid or lender-paid, and whether the payments are made monthly or in a single premium payment at the time of origination. See "Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations—Key Factors Affecting Our Results—*Mortgage Insurance—Premiums.*" A change in capital requirements on insured loans can also affect our returns. See "Regulation—GSE Requirements—*PMIERS—Private Mortgage Insurer Eligibility Requirements.*"

As the mortgage insurance industry migrates away from a predominantly rate-card-based pricing model, various pricing methodologies are being deployed with differing degrees of risk-based granularity, which may also lead to an increased frequency of pricing changes. We currently use proprietary risk and customer analytics, as well as a digital pricing delivery platform, to deliver loan level pricing electronically to our customers, including Radian's RADAR Rates as further discussed below. Our pricing options vary in the level of granularity and we deliver them to our customers based on their business needs and loan origination process. In January 2019, we broadly introduced RADAR Rates as our newest pricing option that is powered by Radian's proprietary RADAR risk model and analyzes credit risk inputs to customize a rate quote to a borrower's individual risk profile, loan attributes and property characteristics. Our strategy is to consistently apply an approach to pricing that is customer-centric, flexible and customizable based on a lender's loan origination process, as well as balanced with our own objectives for managing the risk and return profile of our insured portfolio.

GSE Credit Risk Transfer Transactions. Credit risk transfer premium rates are established through a sealed-bid auction process in which potential insurers/reinsurers provide their desired allocation of the offering(s) at a specified premium rate. Radian evaluates each transaction and determines its bid based on performance models that consider a broad range of borrower, loan and property characteristics as well as market and forecasted future economic conditions. The GSEs set a uniform premium based on an assessment of the bids received and, based on their desired counterparty exposure, assign allocations to insurers/reinsurers.

Underwriting

Mortgage loan applications are underwritten to determine whether they are eligible for our mortgage insurance. We perform this function directly or, alternatively, we delegate to our insured lenders the ability to underwrite the mortgage loans based on compliance with our underwriting guidelines.

Delegated Underwriting. Through our delegated underwriting program we approve insured lenders to underwrite mortgage loan applications based on our mortgage insurance underwriting guidelines. Each lender participating in the delegated underwriting program must be approved by our risk management group. Utilization of our delegated underwriting program enables us to meet lenders' demands for immediate insurance coverage and increases the efficiency of the underwriting process. We use quality control sampling and performance monitoring to manage the risks associated with delegated underwriting. Under the terms of the program, we have certain rights to rescind coverage if there has been a deviation from our underwriting guidelines. For a discussion of these limited Rescission rights, see "—Claims Management—*Rescissions.*" As of December 31, 2018, 63% of our total first-lien IIF had been originated on a delegated basis, compared to 66% as of December 31, 2017.

Non-Delegated Underwriting. In addition to our delegated underwriting program, insured lenders may also submit mortgage loan applications to us and we will perform the mortgage insurance underwriting. In general, we are less likely to exercise our Rescission rights with respect to underwriting errors related to loans that we underwrite for mortgage insurance. As a result, following a period of high Rescissions after the financial crisis, many lenders have chosen to have us perform the mortgage insurance underwriting on a non-delegated basis. Given the professional resources we need to maintain to underwrite mortgage loans, an increase in non-delegated underwriting demand generally increases our operating costs to support this program.

Contract Underwriting. We also provide third party contract underwriting services to our mortgage insurance customers through our Services segment. See “Services—Services Business Overview—*Services Offered—Mortgage Services.*” During 2018, mortgage loans underwritten through contract underwriting accounted for 3.8% of insurance certificates issued on a Flow Basis, as compared to 5.4% in 2017.

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Exposure in our mortgage insurance business is measured by RIF, which for primary insurance is equal to the underlying loan unpaid principal balance multiplied by our insurance coverage percentage.

Our total direct primary mortgage insurance RIF was \$56.7 billion at December 31, 2018. See “Item 7. Management’s Discussion and Analysis of Financial Condition and Results of Operations—Results of Operations—Mortgage Insurance—*NIW, IIF, RIF*” for additional information about the composition of our primary RIF. See “—Mortgage Insurance Business Overview—*Mortgage Insurance Products*” for additional information regarding other mortgage insurance RIF.

We analyze our mortgage insurance portfolio in a number of ways to identify any concentrations or imbalances in risk dispersion. We believe that, among other factors, the credit performance of our mortgage insurance portfolio is affected significantly by:

- general economic conditions (in particular, interest rates, home prices and unemployment);
- the age and performance history of the loans insured;
- the geographic dispersion and other characteristics of the properties securing the insured loans and the condition of local housing markets;
- the quality of underwriting at loan origination; and
- the credit characteristics of the borrower and the characteristics of the loans insured.

Direct Primary RIF by Year of Policy Origination and Persistency

The following table shows our direct primary mortgage insurance RIF by year of origination and selected information related to that risk as of December 31, 2018:

(\$ in millions)	December 31, 2018						
	RIF	Number of Defaults	Delinquency Rate	Percentage of Reserve for Losses	Average FICO (1) at Origination (2)	Original Average LTV (2)	
2008 and prior	\$5,749	13,095	8.8 %	70.3 %	698	89.9 %	
2009	199	156	3.1	0.7	752	88.5	
2010	170	67	1.7	0.3	765	91.7	
2011	465	141	1.4	0.6	763	91.9	
2012	2,094	457	1.1	1.8	763	91.8	
2013	3,504	892	1.4	3.7	758	92.2	
2014	3,464	1,174	1.8	4.7	747	92.3	
2015	5,806	1,366	1.3	5.9	749	92.0	
2016	9,544	1,649	1.0	6.1	750	91.8	
2017	11,958	1,586	0.8	4.9	748	92.3	
2018	13,775	510	0.2	1.0	746	92.5	
Total	\$56,728	21,093 (3)		100.0 %			

(1) Represents the borrower’s credit score at origination. In circumstances where there is more than one borrower, the FICO score for the primary borrower is utilized.

(2) Average FICO at origination and original average LTV are weighted averages based on the unpaid principal balances of the underlying mortgage loans in our portfolio at December 31, 2018.

(3) Includes 2,627 defaults at December 31, 2018 in the FEMA Designated Areas associated with Hurricanes Harvey and Irma, both of which occurred during the third quarter of 2017. See “Item 7. Management’s Discussion and Analysis of Financial Condition and Results of Operations—Results of Operations—Mortgage Insurance—*NIW, IIF, RIF—Provision for Losses.*”

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The amount of time that our insurance certificates remain in force, which is affected by loan repayments and terminations of our insurance, has a significant impact on our revenues and our results of operations. Our Persistency Rate is one key measure for assessing the impact that insurance terminations resulting in certificate cancellations have on our IIF. Because our insurance premiums are earned over time, higher Persistency Rates on Monthly Premium Policies increase the premiums we receive and generally result in increased profitability and returns. Conversely, assuming all other factors remain constant, higher Persistency Rates on Single Premium business lower the overall returns from our insured portfolio, as the premium revenue for our Single Premium Policies is the same regardless of the actual life of the insurance policy and we are required to maintain regulatory capital and Available Assets supporting the insurance for the life of the policy. The Persistency Rate of our primary mortgage insurance was 83.1% at December 31, 2018, compared to 81.1% at December 31, 2017. Historically, there is a close correlation between interest rates and Persistency Rates. Lower interest rate environments generally increase refinancings that result in the cancellation of our insurance. See “Item 7. Management’s Discussion and Analysis of Financial Condition and Results of Operations—Results of Operations—Mortgage Insurance—*NIW, IIF, RIF*” for the details regarding our Persistency Rates. A higher Persistency Rate results in our IIF remaining in place for a longer period of time. Our IIF is one of the primary drivers of future premiums that we expect to earn over time. We expect our IIF to generate substantial income in future periods, due to the high credit quality of our current mortgage insurance portfolio and our expected Persistency Rate over multiple years. See “Item 7. Management’s Discussion and Analysis of Financial Condition and Results of Operations—Key Factors Affecting Our Results—*Mortgage Insurance—IIF; Persistency Rate; Mix of Business*” for more information.

Geographic Dispersion

The following table shows, as of December 31, 2018 and 2017, the percentage of our direct primary mortgage insurance RIF and the associated percentage of our mortgage insurance reserve for losses (by location of property) for the top 10 states in the U.S. (as measured by our direct primary mortgage insurance RIF as of December 31, 2018):

Top Ten States	December 31,		2017	
	2018	Reserve for Losses	RIF	Reserve for Losses
California	12.3%	7.1%	12.4%	6.7%
Texas	8.9	6.6	8.3	5.5
Florida	7.0	11.8	6.8	12.2
Illinois	5.2	4.9	5.4	4.7
Georgia	4.0	3.9	4.0	3.3
Virginia	3.5	1.6	3.5	1.7
Arizona	3.2	1.6	3.1	1.4
Colorado	3.1	1.0	3.0	0.9
Maryland	3.0	3.6	2.9	3.4
New Jersey	3.0	7.7	3.3	10.8
Total	53.2%	49.8%	52.7%	50.6%

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The following table shows, as of December 31, 2018 and 2017, the percentage of our direct primary mortgage insurance RIF and the associated percentage of our mortgage insurance reserve for losses (by location of property) for the top 15 Core Based Statistical Areas, referred to as “CBSAs,” in the U.S. (as measured by our direct primary mortgage insurance RIF as of December 31, 2018):

	December 31,		2017	
	2018	Reserve for Losses	RIF	Reserve for Losses
Top Fifteen CBSAs (1)	RIF	%	RIF	%
Chicago, IL-IN-WI	4.9	4.7	5.2	4.5
New York, NY-NJ-PA	4.0	16.6	4.2	18.9
Washington, DC-MD-VA	3.7	2.7	3.6	2.9
Dallas, TX	3.4	2.1	3.1	1.6
Los Angeles - Long Beach, CA	3.4	1.8	3.5	1.8
Atlanta, GA	3.2	2.9	3.2	2.5
Phoenix/Mesa, AZ	2.4	1.1	2.3	1.0
Philadelphia, PA-NJ-DE-MD	2.3	3.0	2.4	3.5
Miami, FL	2.2	4.4	2.1	4.6
Houston, TX	2.2	2.5	2.1	2.1
Minneapolis-St. Paul, MN-WI	2.0	0.7	2.0	0.7
Denver, CO	1.8	0.5	1.8	0.4
Riverside-San Bernardino, CA	1.8	1.4	1.8	1.3
Boston, MA-NH	1.7	1.5	1.8	1.6
Seattle, WA	1.6	0.7	1.5	1.0
Total	40.6%	46.6	40.6%	48.4

(1) CBSAs are metropolitan areas and include a portion of adjoining states as noted above.

Mortgage Loan Characteristics

In addition to geographic dispersion, other factors also contribute significantly to our overall risk diversification and the credit quality of our RIF, including product distribution, underwriting and our risk management practices. We consider a number of borrower, loan and property characteristics in evaluating the credit quality of our portfolio and developing our pricing and risk management strategies.

LTV. An important indicator of claim incidence in our mortgage insurance business is the relative amount of a borrower’s equity that exists in a home. Generally, absent other mitigating factors such as high FICO scores and other credit factors, loans with higher LTVs at inception (i.e., smaller down payments) are more likely to result in a claim than lower LTV loans. The average original LTV of our primary NIW in 2018 was 92.5%, compared to 92.2% and 91.4% in 2017 and 2016, respectively.

Loan Grade/FICO Score. The risk of claim on non-prime loans is significantly higher than that on prime loans. We use our proprietary models to classify a loan as either prime or non-prime on the basis of a borrower’s FICO score, the level of loan file documentation and other factors. In general we consider a loan to be a prime loan if the borrower’s FICO score is 620 or higher and the loan file meets “fully documented” standards of our credit guidelines and/or the GSE guidelines for fully documented loans. Substantially all of our NIW after 2008 has been on prime loans. Loans that we categorize as Alt-A and A minus and below are considered non-prime loans due to lower FICO scores, reduced loan file documentation, and/or the presence of other risk characteristics.

Loan Size. Relatively higher-priced properties with larger mortgage loan amounts generally have experienced wider fluctuations in value than more moderately priced residences and have been more likely to result in a claim. The average loan size of our direct primary mortgage IIF as of December 31, 2018, 2017 and 2016 was \$216.5 thousand, \$210.0 thousand and \$203.2 thousand, respectively.

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Loan Purpose, Property Type and Occupancy. We consider other factors, including property type, occupancy type and loan purpose in assessing our risk of loss. In general, it has been our experience that our risk of claim is lower on loans secured by single family detached housing than loans on other types of properties, and is higher on non-owner occupied homes purchased for investment purposes than on either primary or second homes. Loan purpose may also impact our risk of loss. For example, cash-out refinance loans, where a borrower receives cash in connection with refinancing a loan, have been more likely to result in a claim than new purchase loans or loans that are refinanced only to adjust rate and term.

See “Item 7. Management’s Discussion and Analysis of Financial Condition and Results of Operations—Results of Operations—Mortgage Insurance—*NIW, IIF, RIF*” for additional information about the credit quality and characteristics of our direct primary mortgage insurance.

Defaults and Claims

Defaults. In our Mortgage Insurance segment, the default and claim cycle begins with the receipt of a default notice from the loan servicer. We consider a loan to be in default for financial statement and internal tracking purposes upon receipt of notification by servicers that a borrower has missed two monthly payments. Defaults also can occur due to a variety of specific events affecting borrowers, including death or illness, divorce or other family problems, unemployment, factors impacting regional economic conditions (e.g., hurricanes, floods, wildfires or other natural disasters), or other events.

The default rate in our mortgage insurance business can be subject to seasonality. Historically, our mortgage insurance business experiences a fourth quarter seasonal increase in the number of defaults and a first quarter seasonal decline in the number of defaults and increase in the number of Cures. While historically this has been the case, macroeconomic factors in any given period may influence the default rate in our mortgage insurance business more than seasonality. The loans from our origination years after 2008 possess significantly improved credit characteristics compared to our portfolio originated in the years prior to and including 2008, including higher average FICO scores for the borrowers of these insured mortgages. In addition, refinancings under the HARP programs have positively impacted the overall credit quality and composition of our mortgage insurance portfolio because the refinancing generally results in terms under which a borrower has a greater ability to pay and more financial flexibility to cover the loan obligations. Our portfolio of business written after 2008 is now the predominant portion of our total primary RIF. The sum of our policies written after 2008 through 2018 and our HARP refinancings accounted for approximately 94% of our total primary RIF at December 31, 2018, compared to 92% at December 31, 2017.

The following table shows the states that have generated the highest number of primary insurance defaults (measured as of December 31, 2018) in our insured portfolio and the corresponding percentage of total defaults as of the dates indicated:

	December 31,					
	2018	2017	2018	2017	2018	2017
States with highest number of defaults:						
Florida (1)	2,023	5,337	9.6%	19.1%	2,666	9.2%
Texas (1)	1,779	2,885	8.4	10.3	1,897	6.5
New York	1,241	1,588	5.9	5.7	2,211	7.6
Illinois	1,230	1,283	5.8	4.6	1,534	5.3
California	1,214	1,264	5.8	4.5	1,426	4.9

(1) Certain areas within these states are FEMA Designated Areas associated with Hurricanes Harvey and Irma and, as a result, defaults in these states are elevated at December 31, 2017.

Claims. Defaulted loans that fail to become current, or “cure,” may result in a claim under our mortgage insurance policies. Mortgage insurance claim volume is influenced by the circumstances surrounding the default. The rate at which defaults cure, or do not go to claim, depends in large part on a borrower’s financial resources and circumstances (including whether the borrower is eligible for a loan modification), local housing prices and housing supply (i.e.,

whether borrowers are able to cure defaults by selling the property in full satisfaction of all amounts due under the mortgage), interest rates and regional economic conditions. In our first-lien primary insurance business, the insured must acquire title to the property (typically through a foreclosure proceeding) before submitting a claim. The time for a lender to acquire title to a property through foreclosure varies depending on the state, and in particular whether a state requires a lender to proceed through the judicial system in order to complete the foreclosure. Following the financial crisis, the time between a default and a request for

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claim payment increased, largely as a result of foreclosure delays due to, among other factors, increased scrutiny within the mortgage servicing industry and foreclosure process. These delays have been improving as the economy recovers from the financial crisis. For Pool Insurance, which represents less than 1% of our RIF at December 31, 2018, our policies typically require the insured to not only acquire title but also to actively market and ultimately liquidate the real estate asset before filing a claim, which generally lengthens the time between a default and a claim submission.

Claim activity is not spread evenly throughout the coverage period of a book of business. Historically, for prime business relatively few claims are received during the first two years following issuance of a policy.

See “Item 7. Management’s Discussion and Analysis of Financial Condition and Results of Operations—Results of Operations—Mortgage Insurance—*NIW, IIF, RIF—Provision for Losses*” for various claims paid tables, including Direct Claims Paid by Origination Year.

The following table shows the states with the highest direct claims paid (measured as of December 31, 2018) for the periods indicated:

<u>(In millions)</u>	Year Ended December		
	2018	2017	2016
States with highest direct claims paid (first-lien):			
New Jersey	\$37.2	\$54.7	\$46.1
Florida	22.5	45.7	59.4
New York	20.4	34.2	26.6
Illinois	13.8	23.4	32.3
California	8.9	16.3	23.1

In addition to claim volume, Claim Severity is another significant factor affecting losses. We calculate the Claim Severity by dividing the claim paid amount by the original coverage amount. Factors that impact the severity of a claim include, but are not limited to, the size of the loan, the amount of mortgage insurance coverage placed on the loan, the amount of time between default and claim during which we are expected to cover certain interest (capped at two years under our Prior Master Policy and capped at three years under our 2014 Master Policy) and expenses, and the impact of our Loss Mitigation and other loss management activities with respect to the loan. Pre-foreclosure sales, acquisitions and other early workout efforts help to reduce overall Claim Severity, as do actions we may take to reduce a claim payment due to servicer negligence, as discussed below in “Claims Management.” See “Item 7. Management’s Discussion and Analysis of Financial Condition and Results of Operations—Results of Operations—Mortgage Insurance—*NIW, IIF, RIF—Provision for Losses*.”

Claims Management

Our claims management process is focused on promptly analyzing and processing claims to ensure that valid claims are paid in a timely and accurate manner. In addition, our mortgage insurance claims management department pursues opportunities to mitigate losses both before and after claims are received.

Claims. In our traditional mortgage insurance business, upon receipt of a valid claim, we generally have the following three settlement options:

- Percentage Option: Pay the maximum liability and allow the insured lender to keep title to the property. The maximum liability is determined by multiplying (*x*) the claim amount (which consists of the unpaid loan principal, plus past due interest for a period of time specified in our Master Policies and certain expenses associated with the default) by (*y*) the applicable coverage percentage;
- (1) Approved Sale Option: Pay the amount of the claim required to make the lender whole (not to exceed our maximum liability), following an approved sale; or
- (2) Acquisition Option: Pay the full claim amount and acquire title to the property.

Approved sales in which the underlying property has been sold for less than the outstanding loan amount are commonly referred to as “short sales.” Although short sales may have the effect of reducing our ultimate claim

obligation, in many cases, a short sale will result in the payment of a claim in an amount that is equal to the maximum liability amount. Under our Master Policies, we retain the right to consent prior to the consummation of any short sales. We have entered into agreements with each of the GSEs, pursuant to which we delegated to the GSEs our prior consent rights with respect to short sales on loans owned by

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the GSEs, as long as the short sales meet the GSE guidelines and processes for short sales and subject to certain other factors set forth in these agreements. We also provide for limited delegation authority to certain loan servicers for short sales under specific circumstances. For loans that are not owned by the GSEs and for which we have not granted specific delegation authority to the loan servicer, we perform an individual analysis of each proposed short sale and provide our consent to these sales when appropriate. Historically, we have consented to a short sale only after reviewing various factors, including among other items, the sale price relative to market and the ability of the borrower to contribute to any shortfall in the sale proceeds as compared to the outstanding loan amount.

After a claim is received, our loss management specialists may focus on:

a review to determine compliance with applicable loan origination programs and our mortgage insurance policy requirements, including: (i) whether the loan qualified for insurance at the time the certificate of coverage was issued, (ii) whether the insured has satisfied its obligation in meeting all necessary conditions in order for us to pay a claim, including submitting all necessary documentation in connection with the claim (commonly referred to as “claim perfection”) and (iii) whether the loan was appropriately serviced in accordance with the standards set forth in our Master Policies;

• analysis and prompt processing to ensure that valid claims are paid in an accurate and timely manner;

• responses to loss mitigation opportunities presented by the insured; and

• management and disposal of acquired real estate.

Radian Guaranty has entered into a Factored Claim Administration Agreement with Fannie Mae that applies to certain loans owned by Fannie Mae that were insured under the 2014 Master Policy for which a claim is submitted on or after October 1, 2018. Pursuant to the agreement, Radian Guaranty will determine the amount of covered expenses forming part of a loss (other than unpaid principal balance and delinquent interest) using pre-negotiated expense factors based on certain characteristics of the applicable loan and property.

Claim Denials. We have the legal right under our Master Policies to deny a claim under certain conditions, such as when the loan servicer does not produce documents necessary to perfect a claim, including evidence that the insured has acquired title to the property, within the time period specified in our Master Policies. Most often, a Claim Denial is the result of a servicer’s failure to provide the loan origination file or other critical servicing documents for review. If, after requests by us, the loan origination file or other servicing documents are not provided to us, we generally deny the claim. If we deny a claim, we continue to allow the insured the ability to perfect the claim for a period of time specified in our Master Policies. If the insured successfully perfects the claim on a timely basis, we will process the claim, including a review of the loan to ensure appropriate underwriting and loan servicing. If, after completion of this process, we determine that the claim was not perfected, the insurance claim is denied and we consider the Claim Denial to be final and resolved. Although we may make a final determination internally with respect to a Claim Denial, it is possible that after we have a denied coverage a legal challenge to our decision to deny coverage may be brought within a period of time specified under the terms of our Master Policies.

Rescissions. Under the terms of our Master Policies we have the legal right, under certain conditions, to unilaterally rescind coverage on our mortgage insurance policies. If we rescind coverage based on a determination that a loan did not qualify for insurance, we provide the insured with a period of time to challenge, or rebut, our decision.

Typical events that may give rise to our right to rescind coverage include: (i) we insure a loan under one of our Master Policies in reliance upon an application for insurance that contains a material misstatement, misrepresentation or omission, whether intentional or otherwise, or that was issued as a result of an act of fraud or (ii) we find that there was negligence in the origination of a loan that we insured. We also have rights of Rescission arising from a breach of the insured’s representations and warranties contained in an endorsement to our Master Policies that is required with our delegated underwriting program.

If a rebuttal to our Rescission is received and the insured provides additional information supporting the continuation (i.e., non-rescission) of coverage, we have the claim re-examined internally by a separate, independent investigator. If the additional information supports the continuation of coverage, the insurance is reinstated and the claim is paid.

After completion of this process, if we determine that the loan did not qualify for coverage, the insurance certificate is

rescinded (and the total premiums paid are refunded) and we consider the Rescission to be final and resolved. Although we may make a final determination internally with respect to a Rescission, it is possible that a legal challenge to our decision to rescind coverage may be brought after we have rescinded coverage during a period of time that is specified under the terms of our Master Policies.

In 2012, we began offering a limited rescission waiver program under our Prior Master Policy for our delegated underwriting customers, in which we agree not to rescind coverage due to non-compliance with our underwriting guidelines so

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long as the borrower makes 36 consecutive payments (commencing with the initial required payment) from his or her own funds. This program does not restrict our rights to rescind coverage in the event of fraud or misrepresentation in the origination of the loans we insure.

Following the financial crisis, the FHFA and the GSEs identified specific requirements to be included by all private mortgage insurers in their master policies for new mortgage insurance applications received on or after October 1, 2014. Among others, these included specific requirements related to loss mitigation and claims processing activities that limited the potential for Loss Mitigation Activity throughout the private mortgage insurance industry. Radian Guaranty incorporated these principles into its 2014 Master Policy. Radian Guaranty also offers 12-month and 36-month rescission relief programs in accordance with the specified terms and conditions set forth in the 2014 Master Policy. Loans that were already insured prior to the October 1, 2014 effective date of the 2014 Master Policy continue to be subject to the terms and conditions of Radian Guaranty's Prior Master Policy.

The FHFA and the GSEs have proposed revised GSE Rescission Relief Principles to, among other things, further limit the circumstances under which mortgage insurers may rescind coverage. We are in the process of incorporating these principles into a new master policy, which we expect will be effective during the second half of 2019. We currently are in discussions with the GSEs regarding the form of this new master policy, including as it relates to these proposed principles, which if adopted, are likely to further reduce our ability to rescind insurance coverage in the future, potentially resulting in higher losses than would be the case under our existing Master Policies.

Claim Curtailments. We also have rights under our Master Policies to curtail, and in some circumstances, deny claims due to servicer negligence. Examples of servicer negligence may include, without limitation:

- a failure to report information to us on a timely basis as required under our Master Policies;
- a failure to pursue loss mitigation opportunities presented by borrowers, realtors and/or any other interested parties;
- a failure to pursue loan modifications and/or refinancings through programs available to borrowers or an undue delay in presenting claims to us (including as a result of improper handling of foreclosure proceedings), which increases the interest or other components of a claim we are required to pay; and
- a failure to initiate and diligently pursue foreclosure or other appropriate proceedings within the timeframe specified in our Master Policies.

Although we could seek post-claim recoveries from the beneficiaries of our policies if we later determine that a claim was not valid, because our loss mitigation process is designed to ensure compliance with our policies prior to payment of a claim, historically we have not sought recoveries from the beneficiaries of our mortgage insurance policies once a claim payment has been made.

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Customers

The principal customers of our mortgage insurance business are mortgage originators such as mortgage bankers, commercial banks, savings institutions, credit unions and community banks. Sources of primary NIW by type of mortgage originator for the year ended December 31, 2018 are shown in the chart below.

Our largest single mortgage insurance customer (including branches and affiliates) measured by primary NIW, accounted for 4.7% of NIW during 2018, compared to 6.8% and 5.7% in 2017 and 2016, respectively. No customer had earned premiums that accounted for more than 10% of our consolidated revenues in 2018, 2017 or 2016.

Since 2009, we have taken steps to diversify our customer base. As a result of these efforts, the percentage of NIW generated by our top 10 customers has decreased from 62.3% in 2009 to 29.1% in 2018. Since 2010, we have added over 1,000 net new customers and significantly increased the amount of business derived from mid-sized mortgage banks. See “Item 1A. Risk Factors—*Our NIW and franchise value could decline if we lose business from significant customers.*”

Competition

We operate in the highly competitive U.S. mortgage insurance industry. Our competitors primarily include other private mortgage insurers and federal and state governmental agencies, principally the FHA and VA.

In addition to Radian Guaranty, the private mortgage insurers that are currently approved and eligible to write business for the GSEs are:

• Arch U.S. MI;

• Essent Guaranty Inc.;

• Genworth Financial Inc.;

• Mortgage Guaranty Insurance Corporation;

• NMI Holdings, Inc.; and

• United Guaranty Corp. (acquired by Arch Capital Group LLC in December 2016).

We compete directly with other private mortgage insurers primarily on the basis of price, underwriting guidelines, overall service, customer relationships, perceived financial strength (including comparative credit ratings) and reputation. Overall

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service competition is based on, among other things, effective and timely delivery of products, timeliness of claims payments, customer service, timely and accurate servicing of policies, training, loss mitigation efforts and management and field service expertise. We also believe that service includes our ability to offer services to customers through our Services business that complement our mortgage insurance products.

Pricing has always been and continues to be competitive in the mortgage insurance industry, as industry participants compete for market share and customer relationships. We monitor various competitive and economic factors while seeking to increase the long-term value of our portfolio by balancing both profitability and volume considerations in developing our pricing and origination strategies. We have taken a disciplined approach to establishing our premium rates and writing a mix of business that we expect to produce our targeted level of returns on a blended basis and an acceptable level of NIW. See “Item 7. Management’s Discussion and Analysis of Financial Condition and Results of Operations—Overview—*Competition and Pricing—Radian’s Pricing.*” As demonstrated by our strong NIW generated in 2018, we believe we remain well positioned to compete for the high-quality business being originated today, while at the same time maintaining projected returns on NIW within our targeted ranges. Based on publicly available information, we estimate that our share of NIW within the private mortgage insurance market (excluding HARP refinancings) was approximately 19% for 2018.

Certain of our private mortgage insurance competitors are subsidiaries of larger corporations, may have access to greater amounts of capital and financial resources than we do at a lower cost of capital (including off-shore reinsurance vehicles) and currently have better financial strength ratings than we have. As a result, they may be better positioned to compete outside of traditional mortgage insurance, including in the private label securitization market or if the GSEs expand their use of, or pursue alternative forms of, credit enhancement outside of private mortgage insurance in its traditional form. In addition, because of tax advantages associated with being off-shore, certain of our competitors have been able to reinsure to their offshore affiliates and achieve higher after-tax rates of return on the NIW they write compared to on-shore mortgage insurers such as Radian Guaranty, which could allow these off-shore competitors to leverage reduced pricing to gain market share, while continuing to achieve acceptable returns on NIW. We also compete with governmental agencies, principally the FHA and the VA. We compete with the FHA and VA on the basis of loan limits, pricing, credit guidelines, terms of our insurance policies and loss mitigation practices. Beginning in 2008, the FHA, which historically had not been a significant competitor, substantially increased its share of the mortgage insurance market which peaked at approximately 74% in 2009. Since then, the private mortgage insurance industry generally had been recapturing market share from the FHA, primarily due to: (i) improvements in the financial strength of private mortgage insurers; (ii) the development of new products and marketing efforts directed at competing with the FHA; (iii) increases in the FHA’s pricing; (iv) the U.S. government’s pursuit of legal remedies against FHA-approved lenders related to loans insured by the FHA; and (v) various policy changes at the FHA, including the general elimination of the premium cancellation provision. We believe that we are well-positioned to effectively compete with the FHA based on our current pricing strategies. In addition, we believe that better execution for borrowers with higher FICO scores, lender preference and the inability to cancel FHA insurance for certain loans are factors that continue to provide a competitive advantage for private mortgage insurers. The FHA’s share of the total insured mortgage market (which includes FHA, VA and private mortgage insurers) was 31% in 2018, compared to 35% in 2017. See “Item 7. Management’s Discussion and Analysis of Financial Condition and Results of Operations—Key Factors Affecting Our Results—*Mortgage Insurance—NIW; Origination Market; Penetration Rate.*” If the FHA reduces its pricing in the future, it could have a negative effect on our ability to compete with the FHA.

We also have faced increasing competition from the VA. Based on publicly available information, the VA’s share of the total insured mortgage market was 25% in 2018. We believe that the VA’s market share has generally been increasing because the VA offers 100% LTV loans and charges a one-time funding fee that can be included in the loan amount with no additional monthly expense, and because of an increase in the number of borrowers that are eligible for the VA’s program.

In addition, as market conditions change, alternatives to traditional private mortgage insurance may become more prevalent, which could reduce the demand for private mortgage insurance in its traditional form, including structures commonly referred to as “investor paid mortgage insurance” in which affiliates of traditional mortgage insurers directly insure the GSEs against loss. For additional information about these structures, see “Regulation—Federal Regulation—*Housing Finance Reform*.” It is difficult to predict what other types of credit risk transfer transactions and other structures might be used by the GSEs in the future. If any of the credit risk transfer transactions and structures that are being developed were to displace primary loan level, standard levels of mortgage insurance, the amount of insurance we write may be reduced.

See “Item 1A. Risk Factors—*Our mortgage insurance business faces intense competition.*”

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Services

Acquisition of Clayton and Other Acquisitions

On June 30, 2014, we acquired Clayton, a leading provider of services and solutions to the mortgage and real estate industries. Since then, we have strategically acquired additional companies and businesses to enhance the mortgage, real estate and title services offered through our Services business. These acquisitions comprise:

- Red Bell, a real estate brokerage, valuation and technology company, in March 2015;
- ValuAmerica, a title insurance agency and appraisal management company, in October 2015;
- EnTitle Direct, a national title insurance and settlement services company, in March 2018;

Independent Settlement Services, a technology-driven national appraisal and title management services company, in November 2018; and

The assets of Five Bridges, a provider of consumer and real estate analytics through a cloud-based portal that provides customers with valuation and risk management tools, in December 2018.

Services Business Overview

Overview

Our Services segment offers a broad array of services to market participants across the mortgage and real estate value chain. These services comprise mortgage services, real estate services and title services, including technology and turn-key solutions, that provide information and other resources used to originate, evaluate, acquire, securitize, service and monitor residential real estate and loans secured by residential real estate. These services are primarily provided to mortgage lenders, financial institutions, investors and government entities. In addition, we provide title insurance to mortgage lenders as well as directly to borrowers.

Our mortgage services help loan originators and investors evaluate, acquire, surveil and securitize mortgages. These services include loan review, RMBS securitization and distressed asset reviews, review and valuation services related to single family rental properties, servicer and loan surveillance and underwriting. Our real estate services help lenders, investors and real estate agents evaluate, manage, monitor and sell properties. These real estate services include software as a service solutions and platforms, as well as managed services, such as REO asset management, real estate valuation services and real estate brokerage services. Our title services provide a comprehensive suite of title insurance products, title settlement services and both traditional and digital closing services.

A key element of our overall business strategy is to use our Services segment to diversify our business and revenue streams by increasing our participation in multiple facets of the residential real estate and mortgage finance markets. In 2017, we undertook a strategic review of our Services business and made several decisions with respect to the business strategy to reposition this business to drive future growth and profitability. Following this strategic review, we committed to a restructuring plan and have refined our Services business strategy to focus on a more limited set of services. See “Item 7. Management’s Discussion and Analysis Financial Condition and Results of Operations-Overview-Business Strategy.” We believe that the combination of our mortgage insurance with our unique set of diversified mortgage, real estate and title services provides us with an opportunity to become increasingly more relevant to our customers and is a competitive differentiator for us compared to other private mortgage insurance companies.

Services Offered

Mortgage Services. Our mortgage services loan review and surveillance products help customers understand risk associated with originating, buying, selling and servicing pools of loans. In this business, we primarily provide loan-level due diligence for various asset classes (residential, single family rental and non-residential) and securitizations, including single family rental and other private label securitizations and securitizations of GSE loans, with offerings focused on credit underwriting, regulatory compliance, compliance with representation and warranties and collateral valuation. Our engagements may take place, among other contexts, prior to or after the sale of a pool of loans, in connection with securitizations, transactions involving warehouse lines of credit, GSE credit risk transfer transactions and transactions involving master servicing rights. We utilize skilled professionals and proprietary technology to deliver customized solutions that help our clients identify and understand areas of risk and opportunity

across the residential home mortgage spectrum.

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As part of our underwriting services, we offer contract underwriting services and compliance reviews to verify that loan file documentation conforms to specified guidelines and regulatory requirements. In our contract underwriting business we underwrite our customers' mortgage loan application files for secondary market compliance (e.g., for sale to the GSEs), and may concurrently assess the file for mortgage insurance eligibility. Generally, we offer limited indemnification to our contract underwriting customers. We train our underwriters, require them to complete continuing education and routinely audit their performance to monitor the accuracy and consistency of underwriting practices.

We offer a full range of services to support the single family rental asset class. Our comprehensive single family rental services provide a centralized, single point of contact for facilitating the valuation, diligence and underwriting services needed to support single family rental securitizations, multi-borrower transactions and warehouse facilities.

Our surveillance services utilize data, technology and skilled professionals to provide ongoing, independent monitoring of mortgage servicer and loan performance. We offer risk management and servicing oversight solutions, including RMBS and single family rental securitization surveillance, regulatory and operational loan level oversight and asset representation review services in connection with securitizations. RMBS surveillance services monitor the servicers of mortgage loans underlying outstanding RMBS. Regulatory and operational loan level oversight provides regular monitoring of servicing operations to measure and assess compliance with applicable policies and regulations.

Our asset representation review services provide targeted loan and receivable oversight for ABS issuers and their investors, including on asset classes other than mortgage loans, in the event of certain default triggers within the ABS.

Real Estate Services. Our real estate services provide data, analytics, process technologies, REO asset management and residential property valuation services to financial institutions, the GSEs, and private investment funds to support the acquisition, sale and management of real estate properties.

Our real estate services include: full appraisal products; property inspection/condition reports; appraisal review products; hybrid/ancillary appraisal products; automated valuation products; broker price opinions (BPOs); asset watch; and rental analysis. These valuation services primarily are provided to originators, owners, purchasers and servicers of, and to investors in, performing and non-performing mortgage loans and REO properties.

We further provide asset management services that include turn-key and component solutions for REO asset management, single family rental services and transition financing services management. These services are designed to support the management of the entire REO disposition process, including management of the eviction and redemption process, as well as property preservation and repairs.

Title Services. We also offer a comprehensive suite of title, closing and settlement services for residential mortgage loans. We offer title insurance as well as a full complement of title services that include tax and title data services; centralized recording services; document retrieval; default curative title services; deed reports; and property reports. Our closing and settlement services include electronic execution of some or all mortgage loan closing documents in a secure digital environment (eClosing), including full eClosing, hybrid eClosing and remote eClosing, as well as signing services, centralized closing and settlement services and local closing and settlement services.

Services Revenue Drivers

For the most significant revenue drivers for our Services business, see "Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations—Key Factors Affecting Our Results—*Services.*"

Fee-for-Service Contracts

Our Services segment is primarily a fee-for-service business. Our services revenue is generated under three basic types of contracts:

Fixed-Price Contracts. Under fixed-price contracts, we agree to perform the specified services and deliverables for a pre-determined per-unit or per-file price or day rate. We use fixed-price contracts in our real estate valuation and component services, our loan review, underwriting and due diligence services as well as our title and closing services. We also use fixed-price contracts in our surveillance business for our servicer oversight services and RMBS surveillance services, and in our asset management business activities.

Time-and-Expense Contracts. Under a time-and-expense contract, we are paid a fixed hourly rate, and we are reimbursed for billable out-of-pocket expenses as work is performed. These contracts are used in our loan review, underwriting and due diligence services.

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Percentage-of-Sale Contracts. Under percentage-of-sale contracts, we are paid a contractual percentage of the sale proceeds upon the sale of each property. These contracts are only used for a portion of our REO management services and our real estate brokerage services. In addition, through the use of our proprietary technology, property leads are sent to select clients. Upon the client's successful closing on the property, we recognize revenue for these transactions based on a percentage of the sale.

In most cases, our contracts with our clients do not include minimum volume commitments and can be terminated at any time by our clients. Although some of our contracts and assignments are recurring in nature, and include repetitive monthly assignments, a significant portion of our engagements are transactional in nature and may be performed in connection with securitizations, loan sales, loan purchases or other transactions. Due to the transactional nature of our business, our Services segment revenues may fluctuate from period to period as transactions are commenced or completed. In addition, our segment revenues are impacted by the origination volumes of our customers, which may fluctuate from period to period.

Title Insurance Premiums

In addition to the fees for services discussed above, we earn net premiums on title insurance written by EnTitle Insurance.

Customers

We have a broad range of customers for our Services segment due to the breadth of services we are able to offer across the mortgage value chain. Our principal third-party customers are:

- Banks, credit unions, independent mortgage banks and other originators of mortgage loans;
- RMBS/ABS issuers, securitization trusts, the GSEs, private equity, hedge funds, real estate investment trusts, investment banks and other investors in mortgage-related debt instruments, whole loans and other securities;
- Owners of single family rental homes;
- Mortgage servicers;
- Real estate brokers and agents; and
- Regulators and rating agencies involved in the mortgage, real estate and housing finance markets.

Our customers include many of the largest financial institutions and participants in the mortgage sector and, as such, our services revenue is concentrated among our largest customers. For the year ended December 31, 2018, the top 10 Services customers generated approximately 42% of the Services segment's services revenue. See “—Services Business Overview—Services Revenue Drivers.”

Competition

We believe our Services business is uniquely positioned as a single provider of an array of services to participants across the residential mortgage and real estate value chain. We are not aware of any other mortgage insurance company that provides a comparable range of services to the residential mortgage and real estate industries. However, our Services business has multiple competitors within each of its individual lines of business. Our competitors mainly include small privately-held companies and subsidiaries of large publicly-traded companies.

Significant competitors include:

Mortgage Services - American Mortgage Consultants, Inc., Digital Risk, LLC, Opus Capital Markets Consultants, LLC, FTI Consulting, Inc., Pentalpha Surveillance LLC, TENA Companies, Inc., Adfitech Inc. and Navigant Consulting, Inc.

Real Estate Services - ClearCapital.com, Inc., CoreLogic, Inc., Pro Teck Valuation Services, First American Financial Corporation, Black Knight, Inc., VRM Mortgage Services, Fidelity National Financial, Inc. and ServiceLink

Title Services - First American Financial Corporation, Fidelity National Financial, Inc., Stewart Information Services Corporation, Old Republic Title Insurance Group, Inc., Westcor Land Title Insurance Company and WFG National Title Insurance Company

Across all business lines, we compete on the basis of industry expertise, price, technology, service levels and relationships.

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We believe that combining our mortgage insurance franchise with our diversified set of mortgage and real estate products and services provides us with an opportunity to become increasingly relevant to our customers and enhances our ability to compete in the insured market by differentiating us from other mortgage insurance competitors.

Enterprise Sales and Marketing

Our enterprise sales and marketing team is centralized to create a unified focus on selling all of our mortgage insurance and mortgage and real estate products and services across our customer base. Our Enterprise sales and marketing team offers a coordinated sales effort under single management and is supported by dedicated business unit and account management teams organized in various geographic regions across the U.S., as well as a telesales team located in our corporate headquarters in Philadelphia. At the enterprise level, we have a senior sales executive dedicated to each of the following areas: credit unions, banking institutions, investment bankers/private equity and fund managers, mortgage bankers, GSEs and servicers. We expect that our enterprise approach to selling the complementary products and services of our Mortgage Insurance and Services businesses will strengthen our relationships with our customers, attract new customers and enhance our ability to compete.

Our Mortgage Insurance dedicated business unit sales team includes a business development group that is focused on developing new mortgage insurance relationships and an account management group that is responsible for supporting our existing mortgage insurance relationships.

Our Services dedicated business unit sales team includes a title services sales team focused on developing new title services relationships and expanding and supporting existing customer relationships, and a mortgage and real estate services team responsible for selling other services offered by our Services business.

All sales efforts are supported by our telesales team that serves customers using any and all of our products and services, and is responsible for managing and growing customer relationships and promoting increased customer adoption.

All sales personnel are compensated by salary, and other incentive-based pay, which may be tied to the achievement of certain business objectives and sales goals or the promotion of certain products.

Customer Support

We have developed training programs for our customers to help their employees develop the knowledge and skills to respond to changing market demands. Our learning solutions are provided to customers to promote the role of private mortgage insurance in the marketplace as well as to promote Radian's specific products and offerings. We offer training in three format options: instructor-led classroom sessions, instructor-led webinars and self-directed on-demand learning.

Sale of Financial Guaranty Business

Radian completed the sale of Radian Asset Assurance Inc. to Assured Guaranty Corp. on April 1, 2015 and exited the financial guaranty business. Radian Asset Assurance provided direct insurance and reinsurance on credit-based structured finance and public finance risks.

Investment Policy and Portfolio

Our investment portfolio is our primary source of claims paying resources.

We have developed an investment strategy that uses an asset allocation methodology that considers our business environment and consolidated risks as well as current investment conditions. With respect to our fixed income investments, the following internal investment policy guidelines, among others, are applied at the time of investment:

At least 75% of our fixed income portfolio, based on market value, must consist of investment securities that are assigned a quality designation of NAIC 1 by the NAIC or equivalent ratings by a nationally recognized statistical ratings organization ("NRSRO") (i.e., "A-" or better by S&P and "A3" or better by Moody's);

A maximum of 25% of our fixed income portfolio, based on market value, may consist of investment securities that are assigned a quality designation of NAIC 2 by the NAIC or equivalent ratings by a NRSRO (i.e., "BBB+" to "BBB-" by S&P and "Baa1" to "Baa3" by Moody's); and

A maximum of 10% of our fixed income portfolio, based on market value, may consist of investment securities that are assigned quality designations NAIC 3 through 6 or equivalent ratings by a NRSRO (i.e., "BB+" and below by S&P

and “Ba1” and below by Moody’s).

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Our portfolio has been constructed to maximize long-term expected returns while maintaining an acceptable risk level. Our investment objectives are to utilize appropriate risk management oversight to optimize after-tax returns, while preserving capital. We target the level of our short-term investments to manage our expected short-term cash requirements.

Our investment policies and strategies are subject to change, depending on regulatory, economic and market conditions and our then-existing or anticipated financial condition and operating requirements, including our current and future tax positions. The investments held at our insurance subsidiaries are also subject to insurance regulatory requirements applicable to such insurance subsidiaries.

Oversight responsibility of our investment portfolio rests with management, and allocations are set by periodic asset allocation studies, calibrated by risk, return and after-tax considerations. The risks we consider include, among others, duration, liquidity, market, interest rate and credit risks. As of December 31, 2018, we internally manage 6.8% of the investment portfolio (the portion of the portfolio largely consisting of U.S. Treasury obligations, money market funds and certain exchange-traded funds), with the remainder primarily managed by three external managers. External managers are selected by management based primarily upon the selected allocations, as well as factors such as historical returns and stability of their management teams. Management's selections are presented to and approved by the Finance and Investment Committee of Radian Group's board of directors.

At December 31, 2018, our investment portfolio had a cost basis of \$5.3 billion and a carrying value of \$5.2 billion, which includes \$0.6 billion of investments maturing within one year or less. Our investment portfolio did not include any direct residential real estate or whole mortgage loans at December 31, 2018. At December 31, 2018, 97.1% of our investment portfolio was rated investment grade. For additional information about our investment portfolio, see the information that follows, as well as Notes 5 and 6 of Notes to Consolidated Financial Statements.

Investment Portfolio Diversification

The composition of our investment portfolio, presented as a percentage of overall fair value at December 31, 2018, was as follows:

(1) Primarily consists of taxable state and municipal investments.

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As of December 31, 2018, we did not have any investment in any person (including affiliates thereof) that exceeded 10% of our total stockholders' equity.

Investment Portfolio Scheduled Maturity

The weighted-average duration of the assets in our investment portfolio as of December 31, 2018 was 4.0 years. We seek to manage our investment portfolio to maintain sufficient liquidity within our risk and return tolerances and to satisfy our operating and other financial needs based on our current liabilities and business outlook. The following table shows the scheduled maturities of the securities held in our investment portfolio at December 31, 2018:

	Fair Value	Percent
<u>(\$ in millions)</u>		
Short-term investments	\$538.8	10.4 %
Due in one year or less (1)	87.3	1.7
Due after one year through five years (1)	1,118.8	21.6
Due after five years through ten years (1)	1,125.5	21.7
Due after ten years (1)	517.3	10.0
RMBS (2)	353.2	6.8
CMBS (2)	591.4	11.4
Other ABS (2)	704.7	13.6
Other investments (3)	144.0	2.8
Total (4)	\$5,181.0	100.0%

(1) Actual maturities may differ as a result of calls before scheduled maturity.

(2) RMBS, CMBS and other ABS are shown separately, as they are not due at a single maturity date.

(3) No stated maturity date.

Includes \$27.9 million of securities loaned to third-party Borrowers under securities lending agreements, classified

(4) as other assets in our consolidated balance sheets. See Note 6 of Notes to Consolidated Financial Statements for more information.

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Investment Portfolio by Rating

The following chart provides the ratings of our investment portfolio, presented as a percentage of overall fair value, as of December 31, 2018:

Enterprise Risk Management

Risk Philosophy, Vision and Appetite

As a financial services organization, risk management is a critical part of our business. Our ERM vision is to remain one of the housing industry's leading risk management organizations by providing solutions that effectively identify, assess and profitably manage risks across the entire mortgage life-cycle. The following goals guide our strategy and actions as a risk management organization:

Embed and continually reinforce a disciplined, corporate-wide risk culture that utilizes an understanding of risk/return tradeoffs to drive quality decisions, utilizing a disciplined approach designed to achieve long-term, through-the-cycle profitability;

Maintain credit, underwriting and risk/return disciplines based on sound data and analytics and continuous feedback throughout the organization;

Proactively monitor origination, portfolio and market trends to identify and mitigate emerging risks;

Continually refine analytical and technological capabilities, processes and systems to effectively identify, assess and manage risks; and

Develop and leverage tools and capabilities to analyze the risk/return trade-offs of corporate strategy and business decisions in order to inform and optimize capital allocation.

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Our risk appetite is driven by our business strategy, which is established by executive management and overseen by Radian's board of directors. Risk appetite is defined as the amount of risk, on a broad level, that an organization is willing to take on in pursuit of value. Based on our risk appetite, management then determines our risk tolerances. Risk tolerances represent the typical measures of risk used to monitor exposure in a particular risk category or for a specific initiative, compared with the stated risk appetite. The illustration below depicts our framework for developing risk appetite and tolerance.

We define our risk appetite qualitatively through the key risk categories where strategic execution can take place. We develop risk appetite statements that are designed to achieve the following:

- Define the risk Radian is willing to accept and manage in pursuit of long-term value on a risk-adjusted basis;
- Incorporate risk management into our strategic planning process;
- Enhance risk understanding and awareness at the board and executive management levels;
- Develop risk tolerances for business units within the context of the defined risk appetite; and
- Improve the quality of decision-making on significant business decisions.

Risk Categories

Our key risk categories are:

- **Credit:** The risk of default or failure to fulfill a financial obligation in a timely manner;
- **Financial:** The risk of market forces on the ability to meet financial obligations;
- **Strategic:** The risk of failure to properly respond to changes in the business environment;
- **Operational:** The risk that business practices, processes, policies and systems are not adequate to meet enterprise objectives; and
- **Regulatory and Compliance:** The risk of non-compliance with laws, rules, regulations and prescribed practices in any jurisdiction in which the business operates.

We do not identify reputational risk as a distinct category of risk. Rather, we view reputational risk as pervasive throughout our entire risk portfolio, as each risk on its own can impact our reputation if not mitigated or managed properly.

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Risk Governance

Our ERM program is subject to a comprehensive governance structure, as illustrated in the following chart and further described below.

Board of Directors. The full board of directors is responsible for the general oversight of risks. Our board of directors seeks to understand and oversee the most critical risks relating to our business, allocates responsibilities for the oversight of risks among the full board and its committees, and reviews the systems and processes that management has in place to manage the current risks facing Radian, as well as those that could arise in the future.

The full board of directors oversees our strategic risks, regulatory risks, risks related to our information technology activities and cyber security risks. As noted above, the board conducts certain aspects of its risk oversight function through the following board committees: Audit Committee; Credit Management Committee; Finance and Investment Committee; Governance Committee; and Compensation and Human Resources Committee.

Each Committee Chair provides regular reports to the full board regarding the Committee's specific risk oversight responsibilities. The board regularly meets with management to receive reports derived from (i) our ERM function regarding the most significant risks we are facing, and the steps being taken to assess, manage and mitigate those risks; and (ii) the Company's information security function regarding cybersecurity risks and the Company's efforts to mitigate such risks. The full board further considers current and potential future strategic risks facing the company as part of its annual strategic planning session with management.

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Integrated ERM Framework. We have adopted an integrated approach to risk management, which includes: (i) a centralized ERM function that resides within the office of our Chief Financial Officer and is responsible for overseeing the process for risk identification, assessment, management and mitigation across the organization; (ii) various management committees that oversee specific risks; (iii) business units that manage specific risks associated with their business activities; and (iv) an internal audit function that performs periodic, independent reviews and tests compliance with risk management policies, procedures and standards across the company.

The various management committees include, but are not limited to, a Pricing and Credit Committee, a Capital and Liquidity Review Committee and a Model Governance Committee (collectively “ALCO”), an Information Security and Resilience Committee, a Regulatory Compliance Council, a Mortgage Insurance Reserve Committee, a Title Insurance Underwriting Committee, a Title Insurance Claims Committee and an Enterprise Data Governance Committee.

Our integrated ERM framework is designed to identify the risks we are facing, and to assess, manage and mitigate those risks. Our ERM process is designed to provide executive management with the ability to evaluate the most significant concerns we face and to calibrate the risk mitigation strategies to account for challenges in the current business environment, as well as external factors that may negatively impact our operations. The risks that fall under the program span the entire spectrum of organizational risks and include risks that may not be easily quantifiable or measurable. These include critical risks that fall into our credit, financial, operational, regulatory and compliance, and strategic risk categories. Enterprise level risk reviews are conducted for both our Mortgage Insurance and Services businesses.

Our ERM process is illustrated in the following chart:

Our ERM program takes a holistic approach to managing risks that we face in our businesses. A cross-functional team, guided by subject matter experts and experienced managers, follows a systematic method to identify, evaluate and monitor both known and emerging risks. Our ERM program is a dynamic process, which includes ongoing analysis and ranking of the most significant risks and the alignment of risk management activities with business strategies. Risk assessments and mitigation plans are developed to address these risks. These assessments and plans are subject to review and modification to account for changes in markets and the regulatory environment, as well as other internal or external factors. Risk scoring and validation of

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the effectiveness of risk management plans through management reporting facilitate program sustainability and promote accountability for risk management activities throughout the company.

An ERM Council, consisting of mid-senior level employees, meets at least quarterly to review the organization's top risks, as well as any risks that may have been upgraded or downgraded during the review cycle. The output (reports, dashboards, etc.) from the ERM Council is consolidated and presented to an ERM Executive Steering Committee (consisting of executive management) at least quarterly. The ERM Executive Steering Committee, along with the ERM Council, is responsible for assisting the board of directors in the fulfillment of its risk oversight responsibilities. Radian currently employs more than 60 dedicated risk management professionals and has developed and established credit, portfolio, and counterparty risk policies, enterprise risk management policies, procedures for monitoring compliance with these policies and comprehensive capabilities and tools to identify, communicate, and mitigate credit and risk-related issues.

Mortgage Insurance Risk Management

Our mortgage insurance business employs a comprehensive risk management function, which is responsible for establishing our credit and counterparty risk policies, monitoring compliance with our policies, managing our insured portfolio and communicating credit related issues to management, the Credit Management Committee of Radian Group's board of directors and to our customers.

Risk Origination and Servicing. We believe that understanding our business partners and customers is a key component of managing risk. Accordingly, we assign individual risk managers to specific customers so that they can more effectively perform ongoing monitoring of loan performance, underwriting quality and the risk profile and mix of business of a customer's mortgage insurance applications. This also allows us to address specific needs of individual customers. The risk managers are located across the country, and their direct interaction with our customers and their access to local markets improves our ability to observe business patterns and manage risk trends. This oversight provides us with the ability to review and study best practices throughout the industry and develop robust data management analysis. The risk managers leverage a suite of customer-level reports to monitor trends at the customer level, identify customers who may exceed certain risk tolerances, and share meaningful data with our customers. The risk managers are also responsible for lender corrective action in the event we discover credit performance issues, such as high early payment default levels.

Portfolio Management. We have developed risk and capital allocation models that support our mortgage insurance business. These models provide robust analysis to establish portfolio limits for product type, loan attributes, geographic concentrations and counterparties. We proactively monitor market concentrations across these and other attributes. We also identify, evaluate and negotiate potential transactions for terminating insurance risk and for distributing risk to others, including through reinsurance arrangements. See "*Ceded Reinsurance*" for more information about the use of reinsurance as a risk management tool in our mortgage insurance business.

As part of our portfolio management function, we monitor and analyze the performance of various risks in our mortgage insurance portfolio. We use this information to develop our mortgage credit risk and counterparty risk policies, and as a component of our default and prepayment analytics.

The portfolio management group analyzes the current composition of our mortgage insurance portfolio, and assesses risks to the portfolio from the market (e.g., the effects of changes in home prices and interest rates) as well as risks from particular lenders, products and geographic locales.

Credit Policy. We have developed and maintain mortgage-related credit risk policies. These policies reflect our tolerance levels regarding counterparty, portfolio and operational risks involving mortgage collateral. Our credit policy function develops and updates our mortgage insurance eligibility and guidelines through regular monitoring of competitor offerings, customer input regarding lending needs, analysis of historical performance and portfolio trends, quality assurance results, underwriter experience and observations and risk tolerances. The credit policy function also maintains the policies for loan and lender-level exceptions to published guidelines and under-performing lenders, which are administered by mortgage insurance underwriters and risk managers. The credit policy function works closely with our mortgage insurance underwriters to ensure that underwriting decisions align with risk tolerances and

principles.

Quality Assurance. Quality assurance is a key element of our credit analytics function, and as part of our quality control program, we audit individual loan files to examine underwriting decisions for compliance with agreed-upon underwriting guidelines. These audits are conducted across loans submitted through our delegated and non-delegated underwriting channels. Our quality assurance team audits both our customers and our underwriters to ensure quality in our NIW. Observations and trends derived from our quality assurance process serve as critical inputs into portfolio monitoring, eligibility and guideline

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updates and customer surveillance, while also providing valuable feedback to our customers and our underwriters regarding the quality of their mortgage insurance underwriting decisions.

Loss Mitigation. We have a dedicated loss mitigation group that works with servicers to identify and pursue loss mitigation opportunities for loans in both our performing and non-performing (defaulted) portfolios. This includes regular surveillance and benchmarking of servicer performance with respect to default reporting, borrower retention efforts, foreclosure alternatives and foreclosure processing. Through this process, we seek to hold servicers accountable for their performance and communicate to servicers identified best practices for servicer performance.

Risk Modeling. We have expertise in the development and deployment of integrated credit and interest rate risk models. Using analytical techniques, we have developed loan level default and prepayment models for a wide range of risk management applications, including portfolio analysis, credit decision making, forecasting, and reserving.

Ceded Reinsurance. Radian's reinsurance programs represent a component of our long-term risk distribution strategy. We use reinsurance as a capital and risk management tool in our mortgage insurance business. We have entered into third-party reinsurance transactions as part of our capital and risk management activities, including quota share reinsurance programs that are utilized to proactively manage Radian Guaranty's capital position under the PMIERS financial requirements, and manage the mix of business in our portfolio. During 2018, we expanded our risk distribution strategy in an effort to optimize the amounts and types of capital and risk distribution deployed against insured risk. The objectives of our risk distribution strategy include: (i) supporting our overall capital plans; (ii) lowering our cost of capital; and (iii) reducing portfolio risk and financial volatility through economic cycles. For additional information regarding our third-party quota share reinsurance programs, see Note 8 of Notes to Consolidated Financial Statements.

Cybersecurity Risk Management

Information security is a significant operational risk for financial institutions such as Radian and includes the risk of loss resulting from cyber-attacks. In an effort to mitigate this risk, Radian has built an Information Security Program that is dedicated to protecting our corporate data as well as data entrusted to us by our customers and partners. At the core of our program is a defense-in-depth strategy, which utilizes multiple layers of security controls to protect data and solutions. Radian utilizes the National Institute of Standards and Technology Cybersecurity Framework (the "NIST CSF"), as a guideline to manage our cybersecurity-related risk. The NIST CSF outlines 98 information security measures over five functions: Identify, Protect, Detect, Respond and Recover. We have developed key security services, including but not limited to, Enterprise Data Protection, Vulnerability Management and Application Security, Managed Threat Detection and Incident Response. We test our incident response readiness and reporting through table top exercises, external and internal penetration testing and other means in our efforts to ensure that risks and incidents are escalated and communicated to appropriate personnel.

Our commitment to growing and maintaining our Information Security Program extends across the organization. Our core Information Security Team is comprised of industry-certified practitioners who are committed to adopting security technologies and practices that meet regulatory standards. We have an Information Security and Resilience Committee comprised of company executives, cross-functional Incident Response teams, and strong governance mechanisms designed to ensure compliance with our security policies and protocols. Additionally, our full board of directors is actively engaged in the Information Security Program's oversight and receives regular updates and reporting from the Company's Chief Information Security Officer on information security strategies, defense initiatives, event preparedness and continuous improvement efforts. While we have an Information Security Program in place in order to attempt to prevent, detect and respond to unauthorized use or disclosure of confidential information, including non-public personal information, there can be no assurance that such use or disclosure will not occur. See "Item 1A. Risk Factors—*The security of our information technology systems may be compromised and confidential information, including non-public personal information that we maintain, could be improperly disclosed.*"

Regulation

We are subject to comprehensive regulation by both federal and state regulatory authorities. Set forth below is a description of significant state and federal regulations and other requirements of the GSEs that are applicable to our businesses. The descriptions below are qualified in their entirety by reference to the full text of the laws and regulations discussed. In Item 1A. Risk Factors, see “—*Our insurance subsidiaries are subject to comprehensive state insurance regulations and other requirements, which we may fail to satisfy.*” and “—*Legislation and administrative and regulatory changes and interpretations could impact our businesses.*”

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State Regulation

Overview of State Insurance Regulation and Our Insurance Subsidiaries

We and our insurance subsidiaries are subject to comprehensive regulation by the insurance departments in the various states where they are licensed to transact business. Insurance laws vary from state to state, but generally grant broad supervisory powers to agencies or officials to examine insurance companies and enforce rules or exercise discretion affecting almost every significant aspect of the insurance business. These regulations principally are designed for the protection of policyholders, rather than for the benefit of investors.

Insurance regulations address, among other things, the licensing of companies to transact business, claims handling, reinsurance requirements, premium rates and policy forms offered to customers, financial statements, periodic reporting, permissible investments and adherence to financial standards relating to surplus, dividends and other measures of solvency intended to assure the satisfaction of obligations to policyholders.

Our insurance subsidiaries' premium rates and policy forms are generally subject to regulation in every state in which they are licensed to transact business. These regulations are intended to protect policyholders against excessive, inadequate or unfairly discriminatory rates and to encourage competition in the insurance marketplace. In most states where our insurance subsidiaries are licensed, premium rates and policy forms must be filed with the state insurance regulatory authority and, in some states must also be approved, before their use. With respect to mortgage insurance, premium rates may be subject to actuarial justification, generally on the basis of the mortgage insurer's loss experience, expenses and future projections. In addition, states may consider general default experience in the mortgage insurance industry in assessing the premium rates charged by mortgage insurers. As to title insurance, forms and rates must be filed, and in most states approved, prior to usage. Forms require approval to ensure that the coverage and exceptions conform to state insurance regulations. Rates subject to approval often must be supported by actuarial data or a study of financial impact of the rate on the company.

Each insurance subsidiary is required by the insurance regulatory authority of its state of domicile, and the insurance regulatory authority of each other jurisdiction in which it is licensed to transact business, to make various filings with those insurance regulatory authorities and with the NAIC, including quarterly and annual financial statements prepared in accordance with statutory accounting principles. In addition, our insurance subsidiaries are subject to examination by the insurance regulatory authority of their state of domicile, as well as each of the states in which they are licensed to transact business.

Radian Group is an insurance holding company and our mortgage insurance subsidiaries belong to an insurance holding company system. All states regulate insurance holding company systems, including the non-insurer holding company within that system. These laws generally require each insurance subsidiary within an insurance holding company system to register with the insurance regulatory authority of its domiciliary state, and to furnish to the regulators in these states applicable financial statements, statements related to intercompany transactions and other information concerning the holding company and its affiliated companies within the holding company system that may materially affect the operations, management or financial condition of insurers or the holding company system. We are subject to the insurance holding company laws of Pennsylvania and Ohio because all of our mortgage insurance subsidiaries are domiciled in Pennsylvania and EnTitle is domiciled in Ohio. These insurance holding company laws regulate, among other things, certain transactions between Radian Group, our insurance subsidiaries and other parties affiliated with us. The holding company laws of Pennsylvania also govern certain transactions involving Radian Group's common stock, including transactions that constitute a "change of control" of Radian Group and, consequently, a "change of control" of its insurance subsidiaries. Specifically, no person may, directly or indirectly, seek to acquire "control" of Radian Group or any of its mortgage insurance subsidiaries unless that person files a statement and other documents with the Pennsylvania Insurance Commissioner and receives prior approval from the Commissioner. Under Pennsylvania's insurance statutes, "control" is defined broadly and is "presumed to exist if any person, directly or indirectly, owns, controls, holds with power to vote or holds proxies representing 10% or more of the voting securities" of a holding company of a Pennsylvania domestic insurer. The statute further defines "control" as the "possession, direct or indirect, of the power to direct or cause the direction of the management and policies of" an

insurer.

In addition, material transactions between us or our affiliates and our insurance subsidiaries or among our insurance subsidiaries are subject to certain conditions, including that they be “fair and reasonable.” These conditions generally apply to all persons controlling, or who are under common control with, us or our insurance subsidiaries. Certain transactions between us or our affiliates and our insurance subsidiaries may not be entered into unless the Pennsylvania Insurance Commissioner or Ohio Department of Insurance, as applicable, is given 30 days’ prior notification and does not disapprove the transaction during that 30-day period.

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Pennsylvania and Ohio regulations also require that we identify the material risks within the insurance holding company system that could pose enterprise risk to the insurer. Among other things, Pennsylvania and Ohio require that insurers domiciled in their states maintain a risk management framework and conduct an Own Risk and Solvency Assessment (“ORSA”) annually in accordance with applicable NAIC requirements.

All of our mortgage insurance subsidiaries are domiciled in Pennsylvania. Listed below are our principal insurance companies as of December 31, 2018:

Radian Guaranty. Radian Guaranty is our primary mortgage insurance company. Radian Guaranty is a direct subsidiary of Radian Group. Radian Guaranty is our only mortgage insurance company that is eligible to provide mortgage insurance on GSE loans. It is a monoline insurer, restricted to writing first-lien residential mortgage guaranty insurance. In addition to Pennsylvania, Radian Guaranty is authorized to write mortgage guaranty insurance (or in states where there is no specific authorization for mortgage guaranty insurance, the applicable line of insurance under which mortgage guaranty insurance is regulated) in each of the other 49 states, the District of Columbia and Guam.

Radian Reinsurance. Radian Reinsurance is a licensed affiliated reinsurer that primarily provides reinsurance to Radian Guaranty. Radian Reinsurance is a direct subsidiary of Radian Group. We also use Radian Reinsurance to participate in the Front-end and Back-end credit risk transfer programs developed by Fannie Mae and Freddie Mac. See “Mortgage Insurance—Mortgage Insurance Business Overview—*Mortgage Insurance Products—Other Mortgage Insurance Products—GSE Credit Risk Transfer*” for more information about these programs.

Radian Insurance. Radian Insurance is our insurance subsidiary that insures our remaining second-lien mortgage loan risk. Radian Insurance is a direct subsidiary of Radian Group. Previously, Radian Insurance also insured our Hong Kong insurance portfolio. As of December 31, 2018, we had no remaining RIF in Hong Kong.

In addition, we have the following mortgage insurance subsidiaries, each of which had no RIF as of December 31, 2018: Radian Investor Surety Inc., Radian Mortgage Guaranty Inc., Radian Guaranty Reinsurance and Radian Mortgage Assurance.

As part of our title services we offer title insurance through EnTitle Insurance, an Ohio domiciled title insurance underwriter and settlement services company that is licensed to issue title insurance policies in 39 states and the District of Columbia. EnTitle Insurance is a wholly owned subsidiary of EnTitle Direct, which we acquired on March 27, 2018. As an insurance company, EnTitle Insurance is subject to comprehensive regulation by the insurance departments in the various states where it is licensed to transact business and subject to examination by the insurance regulatory authority of its state of domicile, the Ohio Department of Insurance.

Mortgage Insurance Capital Requirements and Dividends

Under state insurance regulations, Radian Guaranty is required to maintain minimum surplus levels and, in certain states, a minimum ratio of statutory capital relative to the level of net RIF, or Risk-to-capital. Sixteen states currently impose a Statutory RBC Requirement. The most common Statutory RBC Requirement is that a mortgage insurer’s Risk-to-capital may not exceed 25 to 1. In certain of the RBC States, Radian Guaranty must satisfy a MPP Requirement. The statutory capital requirements for the non-RBC States are de minimis (ranging from \$1 million to \$5 million); however, the insurance laws of these states generally grant broad supervisory powers to state agencies or officials to enforce rules or exercise discretion affecting almost every significant aspect of the insurance business, including the power to revoke or restrict an insurance company’s ability to write new business. Unless an RBC State grants a waiver or other form of relief, if a mortgage insurer, such as Radian Guaranty, is not in compliance with the Statutory RBC Requirement of that state, it may be prohibited from writing new mortgage insurance business in that state. Radian Guaranty’s domiciliary state, Pennsylvania, is not one of the RBC States. In 2018 and 2017, the RBC States accounted for approximately 55.0% and 55.1%, respectively, of Radian Guaranty’s total primary NIW. As of December 31, 2018, Radian Guaranty’s Risk-to-capital was 13.9 to 1, and Radian Guaranty was in compliance with all applicable Statutory RBC Requirements.

The NAIC is in the process of reviewing the minimum capital and surplus requirements for mortgage insurers and considering changes to the Model Act. In May 2016, a working group of state regulators released an exposure draft of

a risk-based capital framework to establish capital requirements for mortgage insurers. The process for developing this framework is ongoing. While the timing and outcome of this process remains uncertain, in the event the NAIC adopts changes to the Model Act, we expect that the capital requirements in states that adopt the new Model Act may increase as a result of the changes. While we cannot provide any assurance, based on the current exposure draft, we do not believe that the capital requirements that may be adopted under the new Model Act are likely to exceed those of the PMIERS financial requirements. See “Item 1A. Risk Factors—*Our insurance subsidiaries are subject to comprehensive state insurance regulations and other requirements, which we may fail to satisfy.*”

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Under Pennsylvania's insurance laws, dividends and other distributions may only be paid out of an insurer's positive unassigned surplus, measured as of the end of the prior fiscal year, unless the Pennsylvania Insurance Commissioner approves the payment of dividends or other distributions from another source. While all proposed dividends and distributions to stockholders must be filed with the Pennsylvania Insurance Department prior to payment, if a Pennsylvania domiciled insurer had positive unassigned surplus as of the end of the prior fiscal year, then unless the prior approval of the Pennsylvania Insurance Commissioner is obtained, such insurer could only pay dividends or other distributions during any 12-month period in an aggregate amount less than or equal to the greater of: (i) 10% of the preceding year-end statutory policyholders' surplus; or (ii) the preceding year's statutory net income.

At December 31, 2018, although Radian Guaranty and Radian Reinsurance had statutory policyholders' surplus of \$814.1 million and \$356.2 million, respectively, both companies had negative unassigned surplus balances, primarily due to the need for mortgage guaranty insurers to establish and maintain contingency reserves. Radian Guaranty and Radian Reinsurance had negative unassigned surplus at December 31, 2018 of \$701.9 million and \$84.8 million, respectively, therefore no ordinary dividends or other distributions can be paid by these subsidiaries in 2019 without approval from the Pennsylvania Insurance Commissioner. Because they also had negative unassigned surplus positions at December 31, 2017 and December 31, 2016, neither Radian Guaranty nor Radian Reinsurance was able to pay any ordinary dividends in 2018 or 2017. Due in part to the need to set aside contingency reserves, which are not included in an insurer's statutory surplus as discussed below, we do not expect that Radian Guaranty or Radian Reinsurance will have positive unassigned surplus, and therefore we expect that they will not have the ability to pay ordinary dividends, for the foreseeable future. During the fourth quarter of 2018, the Pennsylvania Insurance Department approved a \$450 million distribution of capital from Radian Guaranty to Radian Group, which was paid on December 21, 2018. See Note 19 of Notes to Consolidated Financial Statements for a discussion of this distribution of capital and another Extraordinary Distribution that was paid from Radian Guaranty to Radian Group in 2017 in connection with the reallocation of capital among our mortgage insurance subsidiaries.

All of our other mortgage insurance subsidiaries also had negative unassigned surplus at December 31, 2018.

Therefore, no ordinary dividends or other distributions can be paid by these subsidiaries in 2019 without approval from the Pennsylvania Insurance Commissioner.

For statutory reporting, mortgage insurance companies are required annually to set aside contingency reserves in an amount equal to 50% of earned premiums. Such amounts cannot be released into surplus for a period of 10 years, except when loss ratios exceed 35%, in which case the amount above 35% can be released under certain circumstances. The contingency reserve, which is designed to be a reserve against catastrophic losses, essentially restricts dividends and other distributions by mortgage insurance companies. We classify the contingency reserves of our mortgage insurance subsidiaries as a statutory liability. At December 31, 2018, Radian Guaranty and Radian Reinsurance had contingency reserves of \$2.1 billion, and \$293.5 million, respectively.

Title Insurance Capital Requirements and Dividends

EnTitle Insurance is required to maintain Statutory Premium Reserves ("SPR"), calculated as a percentage of gross premium collected. The SPR requirements are set by each state, with the most common being 7%. The SPR is then recovered based on a release schedule, amortized over twenty years. In addition to the SPR, EnTitle Insurance is subject to periodic reviews of certain financial performance ratios, and the states in which it is licensed can impose capital requirements on EnTitle Insurance based on the results of those ratios.

Under Ohio's insurance laws, dividends and other distributions may only be paid out of an insurer's positive unassigned surplus, measured as of the end of the prior fiscal year, unless the Ohio Department of Insurance approves the payment of dividends or other distributions from another source. While all proposed dividends and distributions to stockholders must be filed with the Ohio Department of Insurance prior to payment, if an Ohio domiciled insurer had positive unassigned surplus as of the end of the prior fiscal year, then unless the prior approval of the Ohio Department of Insurance is obtained, such insurer could only pay dividends or other distributions during any 12-month period in an aggregate amount less than or equal to the greater of: (i) 10% of the preceding year-end statutory policyholders' surplus; or (ii) the preceding year's statutory net income. EnTitle Insurance had negative

unassigned surplus at December 31, 2018 of \$23.9 million, therefore it is unable to pay ordinary dividends or other distributions in 2019 without approval from the Ohio Department of Insurance.

In September of 2017, the New York State Department of Financial Services (“DFS”) issued 11 NYCRR 228 (“Regulation 208”) which regulates title insurance marketing practices, expenses and transaction related charges in the state of New York. Regulation 208 limits or bans title underwriters and agents from charging consumers certain title and closing related fees, and contains strict rules around marketing expenses aimed at restricting or stopping certain marketing practices in the title industry. Radian Settlement Services and EnTitle Insurance have adjusted their transaction fees and marketing practices and

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expenses to comply with Regulation 208. Regulation 208 also requires that title insurance underwriters retroactively affirm that they and their agents have not charged fees over the past six years in excess of those amounts which are now limited or expenses which are now banned. If a title insurance underwriter cannot affirm that it or its agents did not charge fees in excess of those allowed under Regulation 208 over the last six years, it will need to submit a reduced rate filing to come into compliance. On February 13, 2019, EnTitle Insurance submitted its reduced rate filing to comply with Regulation 208. DFS approved EnTitle's reduced rate filing on February 15, 2019.

Mortgage, Real Estate and Title Services

Certain of our Services subsidiaries are subject to regulation and oversight by the states where they conduct their businesses, including requirements to be licensed and/or registered in the states in which they conduct operations. Our real estate brokerage businesses provide services in all 50 states and the District of Columbia, and they and their designated brokers are required to hold licenses and conduct their brokerage business in conformity with the applicable license laws and administrative regulations of the states in which they are conducting their business. As a licensed real estate brokerage, Red Bell receives residential real estate information from various multiple listing services ("MLS") which it uses to broker real estate transactions and provide valuation products and services, pursuant to the terms of agreements with the MLS providers. If these agreements were to terminate or Red Bell otherwise were to lose access to this information, it could negatively impact Red Bell's ability to conduct its business.

Radian Settlement Services and its affiliates provide title services and these entities are required to hold the applicable required licenses in the jurisdictions where they operate their business. Title insurance agency licensing is primarily regulated by states in which the services are being offered, with licensing and registration typically within the jurisdiction of each state's department of insurance. Radian Settlement Services is domiciled and licensed in Pennsylvania as a resident title insurance agency and, together with its affiliates, is licensed in 32 additional states. Radian Settlement Services and its affiliates also serve as an appraisal management company. In 2018, Radian acquired Independent Settlement Services, a national appraisal and title management services company. Radian Settlement Services and its affiliates are licensed to provide appraisal management services in 42 states and Independent Settlement Services is licensed as an appraisal management company in 45 states. Real estate appraisal management statutes and regulations vary from state to state, but generally grant broad supervisory powers to agencies or officials to examine companies and enforce rules. While these businesses are generally state regulated, the Dodd-Frank Act established minimum requirements to be implemented by states regarding the registration and supervision of appraisal management companies. Most states have based their legislation on model legislation developed by the Appraisal Institute for the registration and oversight of appraisal management companies. Radian Settlement Services' affiliate, ValuEscrow, Inc., is a California licensed escrow company, and is required to maintain all applicable licenses and fidelity certifications to operate in California.

Radian Clayton Services LLC provides third party underwriting services to lenders, including services that may be deemed loan origination activities as defined by the SAFE Act (discussed below) and state law equivalents. This entity and its employees that provide our contract underwriting services are compliant with the SAFE Act in all 50 states and the District of Columbia. See "[—Federal Regulation—The SAFE Act.](#)"

Cybersecurity

The DFS issued cybersecurity regulations that became effective March 1, 2017 and apply to all financial institutions and insurance companies licensed under the New York Banking, Insurance, and Financial Services Laws, including Radian Guaranty and certain of our other subsidiaries. The regulations require covered entities to, among other things: establish a cybersecurity program; adopt a written cybersecurity policy; designate a Chief Information Security Officer responsible for implementing, overseeing and enforcing the cybersecurity program and policy; and have policies and procedures designed to ensure the security of information systems and nonpublic information accessible to, or held by, third-parties, along with a variety of other requirements to protect the confidentiality, integrity and availability of information systems.

Privacy

In June of 2018, the State of California enacted the California Consumer Privacy Act (“CCPA”) which applies to any company that does business in California and meets certain threshold requirements. The CCPA will become effective January 1, 2020, and the legislation requires the California Attorney General to adopt implementing regulations by July 1, 2020. While we are continuing to evaluate the applicability of the CCPA to our businesses, we believe Radian Group and certain of its affiliates may meet the CCPA threshold requirements, and therefore, may be deemed covered businesses under the CCPA. The CCPA creates a new privacy framework for covered businesses that collect, sell or disclose personal information of California consumers. The definition of protected “personal information” under the CCPA is broad, and the CCPA creates five new

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categories of data privacy rights for California consumers: the right to (1) know what personal information is being collected about them, whether their personal information is sold or disclosed and to whom; (2) access a copy of their personal information; (3) delete their personal information from business servers and service providers, unless it is necessary to maintain the information under enumerated exceptions; (4) opt out of the sale of their personal information to third parties; and (5) have equal access and service if they exercise their rights. The CCPA provides a private right of action for data breaches, including statutory or actual damages, and public enforcement by the California Attorney General for other violations. Compliance with the CCPA will require the development of new policies, procedures and operational changes. It is reasonably possible that the CCPA will prompt other state and federal regulators to move forward with new privacy regulations that could impact our businesses or those of our customers.

GSE Requirements

PMIERS - Private Mortgage Insurer Eligibility Requirements. As the largest purchasers of conventional mortgage loans, and therefore, the main beneficiaries of private mortgage insurance, the GSEs impose eligibility requirements that private mortgage insurers must satisfy in order to be approved to insure loans purchased by the GSEs. The PMIERS initially became effective December 31, 2015, and aim to ensure that approved insurers will possess the financial and operational capacity to serve as strong counterparties to the GSEs throughout various market conditions. The PMIERS are comprehensive, covering virtually all aspects of the business and operations of a private mortgage insurer of GSE loans, including internal risk management and quality controls, the relationship between the GSEs and the approved insurer and the approved insurer's financial condition. The PMIERS contain extensive requirements related to the conduct and operations of our mortgage insurance business, including operational requirements in areas such as claim processing, loss mitigation, document retention, underwriting, quality control, reporting and monitoring, among others. In addition, the PMIERS prohibit private mortgage insurers from engaging in certain activities such as insuring loans originated or serviced by an affiliate (except under certain circumstances) and require private mortgage insurers to obtain the prior consent of the GSEs before taking certain actions, which may include entering into various intercompany agreements and commuting or reinsuring risk, among others. Radian Guaranty currently is an approved mortgage insurer under the PMIERS and is in compliance with the PMIERS financial requirements.

The PMIERS financial requirements require that a mortgage insurer's Available Assets meet or exceed its Minimum Required Assets. The PMIERS financial requirements include increased financial requirements for defaulted loans, as well as loans with a higher likelihood of default and/or certain credit characteristics, such as higher LTVs and lower FICO scores, and for loans originated after January 1, 2016 that are insured under lender-paid mortgage insurance policies not subject to automatic termination under the HPA. Therefore, if our mix of business includes a higher percentage of loans that are subject to these increased financial requirements, it increases the Minimum Required Assets and/or the amount of Available Assets that Radian Guaranty is required to hold. See "Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations—Overview—*Operating Environment.*" The GSEs have significant discretion under the PMIERS and may amend the PMIERS at any time, although the GSEs have communicated that for material changes, including material changes affecting Minimum Required Assets, they will generally provide written notice 180 days prior to the effective date and engage in a discussion and comment process with the private mortgage insurers regarding the proposed changes prior to finalizing them. On September 27, 2018, the GSEs issued PMIERS 2.0, which will become effective on March 31, 2019. PMIERS 2.0 eliminates any credit for future premiums for insurance policies written prior to and including 2008, which is permitted under the current PMIERS. In addition, among other changes, defaulted loans in FEMA-declared major disaster areas will require a reduced level of Minimum Required Assets under PMIERS 2.0, subject to certain requirements. Radian Guaranty expects to comply with PMIERS 2.0 as of the effective date.

We have entered into reinsurance transactions as part of our capital and risk management activities, including to manage Radian Guaranty's capital position under the PMIERS financial requirements. The initial and ongoing credit that we receive under the PMIERS financial requirements for these transactions is subject to the periodic review of the GSEs.

Although we expect Radian Guaranty to retain its eligibility status with the GSEs and to continue to comply with the PMIERS financial requirements, including as they may be updated, we cannot provide assurance that this will occur. See “Item 1A. Risk Factors—*Radian Guaranty may fail to maintain its eligibility status with the GSEs.*”

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Other GSE Business Practices and Requirements. The GSEs, acting independently or through their conservator, the FHFA, have the ability to change their business practices and requirements in ways that impact our business. Examples of more recent changes or proposed changes in the GSEs' business practices and requirements are: the GSEs' proposal of new minimum requirements for master insurance policies to revise the GSE Rescission Relief Principles to, among other things, further limit the circumstances under which mortgage insurers may rescind insurance coverage;

the changes to the PMIERS under PMIERS 2.0 that become effective on March 31, 2019; and changes to underwriting standards on mortgages they purchase, including for example, the GSEs' decision to expand credit in 2017 by purchasing a larger portion of loans with debt-to-income ratios greater than 45%.

For information on additional potential changes in GSE business practices and requirements that could impact our business, see "Item 1A. Risk Factors—*Changes in the charters, business practices, or role of the GSEs in the U.S. housing market generally, could significantly impact our mortgage insurance business.*"

Federal Regulation***Housing Finance Reform***

The federal government plays a significant role in the U.S. housing finance system through, among other things, the involvement of the FHFA and GSEs, the FHA and the VA. The GSEs' charters generally prohibit them from buying low down payment mortgage loans without certain forms of credit enhancement, the primary form of which has been private mortgage insurance. There has been ongoing debate about the roles that the federal government and private capital should play in the housing finance system, and in recent years, there generally has been broad policy consensus that there is a need to increase the role of private capital. As a significant source of private capital in the existing housing finance system, private mortgage insurance is well-positioned in recent legislative proposals to continue to be able to provide the type of coverage that has become the predominant form of credit enhancement for satisfying the requirements currently memorialized in rules implementing the GSE charters, sometimes referred to as "standard coverage." However, to the extent new legislative action alters the existing GSE charters without explicit preservation of the role of private mortgage insurance for high-LTV loans, our business could be adversely affected. Furthermore, should legislative or administrative action, such as the imposition of higher guarantee fees or loan level price adjustments, changes to loan limits, or significantly tightening the credit underwriting standards for the GSEs, it is possible that non-GSE executions, including the "private label" secondary market or loans insured by the FHA, VA, or U.S. Department of Agriculture ("USDA") would result in better execution or price to consumers. In such a scenario, our business could be adversely impacted.

Since FHFA was appointed as conservator of the GSEs in September 2008, there has been a wide range of legislative proposals to reform the U.S. housing finance market, including proposals for GSE reform ranging from some that advocate nearly complete privatization and elimination of the role of the GSEs to others that support a system that combines a federal role with private capital. Recent proposals have focused on making the federal guaranty of mortgage backed securities explicit, with some models proposing the repurposing of the GSEs to have them compete with other secondary market guarantors and other models proposing a broad implementation of the multiple issuer structure that exists with Ginnie Mae backed loans. In addition, the Trump administration and U.S. Treasury have stated that they are seeking to advance housing finance reform, particularly if the U.S. Congress does not take action to end the current conservatorship of the GSEs. Under current law, the FHFA has significant discretion with respect to the future state of the GSEs, including the ability to place the GSEs into receivership without further legislative action. The term of the most recent director of the FHFA ended in January 2019 and an acting director was appointed, pending the U.S. Senate's confirmation of the Administration's nominee to lead the FHFA. With new leadership at FHFA, we believe there may be an increased likelihood that the Administration could take action to reform the GSEs through current authorities of the director under The Housing and Economic Recovery Act of 2008 and through Executive Order.

The U.S. Treasury currently owns the preferred stock of the GSEs pursuant to the terms of a senior preferred stock purchase agreement and was prohibited from selling its stake in the GSEs until January 1, 2018. On December 21,

2017, the FHFA and the Treasury Department reached an agreement to reinstate a \$3 billion capital reserve for the GSEs under the senior preferred stock purchase agreement, allowing the GSEs to build a limited amount of reserves to allow for income fluctuations. Beyond this \$3 billion capital buffer, the GSEs are required under the senior preferred stock purchase agreements to sweep all profits to the U.S. Treasury. It is possible that the U.S. Treasury could further amend the terms of the senior preferred stock purchase agreement to permit the GSEs to further retain profits and recapitalize which could, in turn, affect the prospects for comprehensive housing finance reform legislation. In June 2018, FHFA released a proposed rule to establish a CCF that would

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apply minimum capital requirements for the GSEs, if the CCF is finalized. This rule proposes both risk-based capital requirements and would revise the minimum leverage capital requirement for the GSEs. Under this proposed rule, these requirements would only take effect once the GSEs exit conservatorship, although in the absence of greater transparency we believe the CCF provides a reasonable basis for understanding how the GSEs are currently conducting their operations, including their decisions with respect to capital allocation and pricing. If the CCF is finalized, it is reasonably possible that the GSEs will seek to more closely align the capital requirements of the PMIERS with the CCF, which could result in further changes to the PMIERS.

In the absence of comprehensive housing finance reform legislation, the FHFA has made changes to the business and operations of the GSEs. As a mechanism for implementing changes, the FHFA uses the annual process of releasing a strategic plan for conservatorship and setting goals for the GSEs (the “Scorecard”) to meet as part of its ongoing regulation. Among other things, the 2019 Scorecard includes goals to increase access to single-family mortgage credit for creditworthy borrowers and to finalize post-financial crisis loss mitigation activities. In addition, the 2019 Scorecard calls for the GSEs to transfer a meaningful portion of credit risk, also known as “credit risk transfer,” to the private sector. The mandate for meaningful credit risk transfer builds upon the goals set in each of the last three years for the GSEs to transfer portions of their mortgage credit risk to the private sector by experimenting with different forms of transactions and structures. In response to this mandate, the GSEs have engaged in Front-end, Back-end and other credit risk transfer transactions to transfer a portion of credit risk. From 2013 through June 2018 the GSEs transferred risk on over \$2.5 trillion of unpaid principal balance, and we expect these credit risk transfer transactions to continue. We have participated in both the Front-end and Back-end credit risk transfer programs developed by Fannie Mae and Freddie Mac. For more information about these programs, see “Mortgage Insurance—Mortgage Insurance Business Overview—*Mortgage Insurance Products—Non-Traditional Risk.*”

In addition, alternatives to traditional mortgage insurance may be introduced that compete with private mortgage insurance. In 2018, Freddie Mac and Fannie Mae announced the launch of limited pilot programs, Integrated Mortgage Insurance (“IMAGIN”) and Enterprise-Paid Mortgage Insurance (“EPMI”), respectively, as alternative ways for lenders to sell to the GSEs loans with LTVs greater than 80%. These investor-paid mortgage insurance programs, in which insurance is acquired directly by each GSE, have many of the same features as and represent an alternative to traditional private mortgage insurance products that are provided to individual lenders. Participants in IMAGIN and EPMI are not subject to compliance with the PMIERS, which may create a competitive disadvantage for private mortgage insurers if these pilot programs are expanded.

It is difficult to predict what other types of credit risk transfer transactions and other structures might be used by the GSEs in the future. If any of the credit risk transfer transactions and structures that are being developed were to displace primary loan level, standard levels of mortgage insurance, the amount of insurance we write may be reduced. However, the GSEs also have solicited comments regarding the possibility of including additional mortgage insurance in excess of standard coverage amounts through a concept known as “deeper cover mortgage insurance,” which could increase the amount of insurance we write. As a result, it is difficult to predict the impact of any credit risk transfer products and transactions implemented by the GSEs.

In Item 1A. Risk Factors, see “—*Changes in the charters, business practices, or role of the GSEs in the U.S. housing market generally, could significantly impact our mortgage insurance business.*” and “—*Our mortgage insurance business faces intense competition.*”

FHA

Private mortgage insurance competes with the single-family mortgage insurance programs of the FHA. As such, the FHA is one of our biggest competitors. We compete with the FHA on the basis of loan limits, pricing, credit guidelines, terms of our insurance policies and loss mitigation practices. Since 2013, the loan limits for FHA-insured loans and the loan limits for GSE conforming loans have been substantially the same. It is possible that, in the future, Congress could impose different loan limits for FHA loans than for GSE conforming loans as it has done in the past, which could impact the competitiveness of private mortgage insurance in relation to FHA programs.

Beginning in 2008, the FHA, which historically had not been a significant competitor, substantially increased its market share of the insured mortgage market. Since then, the private mortgage insurance industry generally had been recapturing market share from the FHA, primarily due to: (i) improvements in the financial strength of private mortgage insurers; (ii) the development of new products and marketing efforts directed at competing with the FHA; (iii) increases in the FHA's pricing; (iv) the U.S. government's pursuit of legal remedies against FHA-approved lenders related to loans insured by the FHA; and (v) various policy changes at the FHA, including the general elimination of the premium cancellation provision that exists for borrower-paid private mortgage insurance. In January 2015, the FHA reduced its annual mortgage insurance premium by 50 basis points to approximately 85 basis points for loans entering the origination process on or after January 26, 2015, including

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refinancings. The FHA's upfront mortgage insurance premium was not changed. Reductions in the FHA's annual premiums or changes to its policies may impact our competitiveness with the FHA.

Given that FHA and GSE reform have significant impacts on each other, as well as on borrower access to credit and the housing market more broadly, policymakers may consider both GSE reform and FHA reform together. It is unclear whether FHA reform legislation will be adopted and, if so, what provisions it might ultimately contain. If legislative changes to the FHA and GSEs are not made contemporaneously, there is a possibility that the relative competitiveness of private mortgage insurance could be disadvantaged.

The Dodd-Frank Act

The Dodd-Frank Act mandates significant rulemaking by several regulatory agencies to implement its provisions. The Dodd-Frank Act established the CFPB to regulate the offering and provision of consumer financial products and services under federal law, including residential mortgages, and transferred authority to the CFPB to enforce many existing consumer related federal laws, including the Truth in Lending Act ("TILA") and RESPA.

Among the most significant provisions for private mortgage insurers under the Dodd-Frank Act are the ability to repay mortgage provisions ("Ability to Repay Rule"), including a related safe harbor set forth in the QM Rule (defined below), the securitization risk retention provisions and the expanded mortgage servicing requirements under TILA and RESPA.

Qualified Mortgage Requirements - Ability to Repay Requirements. The Ability to Repay Rule requires mortgage lenders to make a reasonable and good faith determination that, at the time the loan is consummated, the consumer has a reasonable ability to repay the loan. The Dodd-Frank Act provides that a creditor may presume that a borrower will be able to repay a loan if the loan has certain low-risk characteristics that meet the definition of a qualified mortgage ("QM Rule").

In adopting the QM Rule, the CFPB established rigorous underwriting and product feature requirements for the loans to be deemed qualified mortgages. Within those regulations, the CFPB created a special exemption for Fannie Mae and Freddie Mac for a period ending upon the earlier of the end of conservatorship or January 10, 2021, which allows any loan that meets the GSE underwriting and product guidelines to be a qualified mortgage. In January 2019, the CFPB released a five year review of the Qualified Mortgage and Ability to Repay rule, as required by the Dodd-Frank Act. While this report provided observations on the impact of the QM rule on the market based on CFPB research, it did not include any policy recommendations or propose amending the current rules.

The QM Rule requires that points and fees paid at or prior to closing cannot exceed 3% of the total loan amount, with higher points and fees thresholds provided for loan amounts below \$100,000. Any mortgage insurance paid by the borrower at the time of loan closing that is not refundable on a pro-rata basis must be applied toward the 3% points and fee calculation. Additionally, any refundable borrower-paid insurance premiums paid at closing in excess of 175 basis points must be included in a lender's QM 3% points and fees calculation. There are no similar restrictions on the points and fees associated with FHA premiums, and thus FHA has a market advantage for smaller balance loans where the 3% cap is more easily reached.

The Dodd-Frank Act also granted the FHA, VA and the U.S. Department of Agriculture flexibility to establish their own definitions of qualified mortgages for their insurance guaranty programs. Both the FHA and VA have created their own definition of qualified mortgages that differ from both the CFPB's definition and the current underwriting and product guidelines at the GSEs that are subject to the special exemption. These alternate definitions of qualified mortgages are more favorable to lenders and mortgage holders than the CFPB QM Rule that applies to the GSEs and the markets in which we operate, which could drive business to these agencies and have a negative impact on our mortgage insurance business.

Qualified Residential Mortgage Regulations - Securitization Risk Retention Requirements. The Dodd-Frank Act requires securitizers to retain at least 5% of the credit risk associated with mortgage loans that they transfer, sell or convey, unless the mortgage loans are qualified residential mortgages ("QRMs") or are insured by the FHA or another federal agency. Under applicable federal regulations, a QRM is generally defined as a mortgage meeting the requirements of a qualified mortgage under the CFPB's QM Rule described above. Because of the capital support

provided by the U.S. government to the GSEs, the GSEs satisfy the proposed risk retention requirements of the Dodd-Frank Act while they are in conservatorship, so sellers of loans to the GSEs currently are not subject to the risk retention requirements referenced above. This means that securitizers would not be required to retain risk under the final QRM rule on loans that are guaranteed by the GSEs while in conservatorship. The final rule requires the agencies that implemented the rule to review the QRM definition no later than four years after its effective date (*i.e.*, December 2018) and every five years thereafter, and allows each agency to request a review of the definition at any time.

Mortgage Servicing Rules. Among its products and services, our Services business provides services to financial institutions that are focused on evaluating compliance with and establishing processes and procedures to implement national

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and state servicing standards, including the CFPB's mortgage servicing regulations. The Dodd-Frank Act amended and expanded upon mortgage servicing requirements under TILA and RESPA. The CFPB amended Regulation Z (promulgated under TILA) and Regulation X (promulgated under RESPA) to conform these regulations to the new statutory requirements. Among other things, the rules include new or enhanced requirements for handling loans that are in default. Complying with the mortgage servicing rules has been challenging and costly for many loan servicers. Since the final rules were adopted in 2014, the CFPB has clarified those rules through subsequent rulemakings and provided guidance on how servicers must apply them in certain circumstances. In October 2017 the CFPB issued an interim final rule that amended provisions of the Regulation X mortgage servicing rules that it had previously issued in 2016. Along with its review of the Qualified Mortgage and Ability to Repay Rule in January of 2019, the CFPB also provided an assessment of the mortgage servicing rules. The CFPB offered observations regarding the impact of the rules on foreclosure avoidance and servicing costs, but again offered no specific proposed action regarding the rules going forward.

Other. In addition to the foregoing, the Dodd-Frank Act establishes a Federal Insurance Office within the U.S. Treasury (the "FIO"). While the FIO does not have a general supervisory or regulatory authority over the business of insurance, the director of this office performs various functions with respect to insurance, such as serving as a non-voting member of the Financial Stability Oversight Council. It is difficult to predict whether legislators or other executive agencies will pursue the development and implementation of federal standards for the mortgage insurance industry. However, to the extent these recommendations are acted upon by legislators or other executive action, a divergence from the current system of state regulation could significantly change compliance burdens and possibly impact our financial condition.

RESPA

Settlement service providers in connection with the origination or refinance of a federally regulated mortgage loan are subject to RESPA and Regulation X. Under the Dodd-Frank Act, the authority to implement and enforce RESPA was transferred to the CFPB. RESPA authorizes the CFPB, the U.S. Department of Justice, state attorneys general and state insurance commissioners to bring civil enforcement actions, and also provides for criminal penalties and private rights of action.

Mortgage insurance and other products and services provided by Radian's affiliates are considered settlement services for purposes of RESPA. The anti-referral fee and anti-kickback provisions of Section 8 of RESPA generally provide, among other things, that settlement service providers are prohibited from paying or accepting anything of value in connection with the referral of a settlement service or sharing in fees for those services. RESPA also prohibits requiring the use of an affiliate for settlement services and requires certain information to be disclosed if an affiliate is used to provide the settlement services. In addition to mortgage insurance, through our Services business we offer a broad array of both settlement and non-settlement services to our customers, including real estate, valuation, appraisal, title and closing services. To the extent products and services provided by our Services business are settlement services for purposes of RESPA, the anti-referral fee, anti-kickback, and required use provisions of RESPA may apply which could impact how these products and services are marketed and sold.

In the past, we and other mortgage insurers have faced lawsuits alleging, among other things, that our captive reinsurance arrangements constituted unlawful payments to mortgage lenders under RESPA. We also have been subject to lawsuits alleging that our Pool Insurance and contract underwriting services violated RESPA. In addition, we and other mortgage insurers have been subject to inquiries and investigative demands from state and federal governmental agencies, including the CFPB, requesting information relating to captive reinsurance. In April 2013, we reached a settlement with the CFPB that concluded its investigation with respect to Radian Guaranty without any findings of wrongdoing. As part of the settlement, Radian Guaranty paid a civil penalty and agreed that it would not enter into any new captive reinsurance agreement or reinsure any new loans under any existing captive reinsurance agreement for a period of 10 years ending in 2023. In June 2015, Radian Guaranty executed a Consent Order with the Minnesota Department of Commerce that resolved the Minnesota Department of Commerce's outstanding inquiries related to captive reinsurance arrangements involving mortgage insurance in Minnesota without any findings of

wrongdoing. As part of the Consent Order, Radian Guaranty paid a civil penalty and agreed not to enter into new captive reinsurance arrangements until June 2025. We have not entered into any new captive reinsurance arrangements since 2007. In addition, under the PMIERS, the GSEs prohibit private mortgage insurers from entering into captive insurance arrangements.

The CFPB amended Regulations X and Z to establish significant new disclosure requirements and forms in Regulation Z for most closed-end consumer credit transactions secured by real property through a regulation known as the “TRID rule.” The TRID rule became effective October 3, 2015, and mandates that a series of enhanced disclosures be provided to consumers in connection with the origination of most types of residential mortgage loans.

Implementation of the TRID rule resulted in an increased burden on loan originators to comply. In addition, difficulties implementing the new disclosure rules and uncertainty with respect to certain aspects of the TRID rule, including uncertainty as to whether a closed loan fully complies with the TRID

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rule requirements, negatively impacted the purchase of loans in the secondary market by private investors. In July 2016, the CFPB issued proposed amendments to the TRID rule to formalize CFPB guidance and provide greater clarity and certainty for market participants, and finalized these amendments in the form of new TRID rules in July of 2017, known as “TRID 2.0.” Mandatory compliance with TRID 2.0 became effective in October 2018. We believe that the guidance that has been provided by the CFPB, together with TRID 2.0, will reduce the uncertainty and remove certain impediments to originating new loans that followed the implementation of the original TRID rule.

Homeowner Assistance Programs

The Emergency Economic Stimulus Act of 2008 (“EESA”) included a requirement to “maximize assistance to homeowners and encourage mortgage servicers to take advantage of available programs (including the Hope for Homeowners program) to minimize foreclosures.” In 2008, the U.S. Treasury announced the Homeowner Affordability and Stability Plan to restructure or refinance mortgages to avoid foreclosures through: (i) refinancing mortgage loans through HARP; (ii) modifying first- and second-lien mortgage loans through HAMP and the Second Lien Modification Program; and (iii) offering other alternatives to foreclosure through the Home Affordable Foreclosure Alternatives Program. HAMP expired in December 2016 and was replaced with the “Flex Modification” program that will offer payment relief similar to HAMP. Refinancing under the HARP program expired on December 31, 2018. The GSEs have since established high LTV streamlined refinance programs in coordination with FHFA to continue providing refinancing options to avoid foreclosure. These programs began enrolling participants in November 2018. In response to the extensive damage caused by hurricanes during 2017 and 2018, we are supporting the disaster relief policies issued by the GSEs that provide various forms of assistance to accommodate the financial needs of homeowners in the affected areas, including temporary suspension of foreclosures, penalty waivers, and forbearance or modification plans that provide more flexible mortgage payment terms.

The SAFE Act

The SAFE Act and its state law equivalents require mortgage loan originators to be licensed with state agencies in the states in which they operate and/or registered with the Nationwide Mortgage Licensing System and Registry (the “Registry”). The Registry is a database established by the Conference of State Bank Supervisors and the American Association of Residential Mortgage Regulators that tracks the licensing and eligibility requirements of loan originators. Among other things, the database was established to support the licensing of mortgage loan originators by each state. As part of this licensing and registration process, loan originators who are employees of institutions other than depository institutions or certain of their subsidiaries that, in each case, are regulated by a federal banking agency, must generally be licensed under the SAFE Act guidelines enacted by each state in which they engage in loan origination activities and registered with the Registry. The entity and its employees that provide our contract underwriting services are compliant with the SAFE Act in all 50 states and the District of Columbia.

Mortgage Insurance Cancellation

The HPA imposes certain cancellation and termination requirements for borrower-paid private mortgage insurance and requires certain disclosures to borrowers regarding their rights under the law. The HPA also requires certain disclosures for loans covered by lender-paid private mortgage insurance. Specifically, the HPA provides that private mortgage insurance on most loans originated on or after July 29, 1999 may be cancelled at the request of the borrower once the LTV reaches 80% of the original value, provided that certain conditions are satisfied. Under HPA, private mortgage insurance on borrower-paid mortgage insurance must be canceled automatically on the date the LTV is scheduled to reach 78% of the original value (or, if the loan is not current on that date, on the date that the loan becomes current).

The HPA establishes special rules for the termination of private mortgage insurance in connection with loans that are “high risk.” The HPA does not define “high risk” loans, but leaves that determination to the GSEs for loans up to the GSE conforming loan limits and to lenders for any other loan. For “high risk” loans, private mortgage insurance must be terminated on the date that the LTV is first scheduled to reach 77% of the unpaid principal balance. In no case, however, may private mortgage insurance be required beyond the midpoint of the amortization period of the loan if the borrower is current on the payments required by the terms of the mortgage.

The Fair Credit Reporting Act (the “FCRA”)

The FCRA imposes restrictions on the permissible use of credit report information and disclosures that must be made to consumers when information from their credit reports is used. The FCRA has been interpreted by some Federal Trade Commission staff to require mortgage insurance companies to provide “adverse action” notices to consumers in the event an

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application for mortgage insurance is declined or a higher premium is charged based on the use, wholly or partly, of information contained in the consumer's credit report.

Privacy and Information Security - Gramm-Leach-Bliley Act of 1999 (the "GLBA") and Other Regulatory Requirements

As part of our business, we, and certain of our subsidiaries, maintain large amounts of confidential information, including non-public personal information on consumers and our employees. We and our customers are subject to a variety of privacy and information security laws and regulations. The GLBA imposes privacy requirements on financial institutions, including obligations to protect and safeguard consumers' nonpublic personal information and records, and limitations on the re-use of such information. The GLBA is enforced by state insurance regulators and by federal regulatory agencies. In addition, many states have enacted privacy and data security laws that impose compliance obligations beyond GLBA, including obligations to provide notification in the event that a security breach results in a reasonable belief that unauthorized persons may have obtained access to consumer nonpublic personal information.

Federal and state agencies have increased their focus on compliance obligations related to privacy, data security and cybersecurity. The CFPB, Office of the Comptroller of the Currency and non-governmental regulatory agencies, such as the Financial Industry Regulatory Authority (FINRA), have announced new compliance measures and enforcement efforts designed to monitor and regulate the protection of personal consumer data, including with respect to: the development and delivery of financial products and services; underwriting; mortgage servicing; credit reporting; digital payment systems; and vendor management. For information regarding the New York Department of Financial Services cybersecurity regulations and the California Consumer Privacy Act see "[—State Regulation—Cybersecurity.](#)"

Asset Backed Securitizations

Our Services business provides services to issuers of and investors in asset backed securitizations and similar transactions. As a result, regulations impacting the asset backed securitization market may impact our Services business directly, or indirectly through the regulation of our Services customers.

In August 2014, the SEC adopted final rules under Regulation AB that substantially revised the offering process, disclosure and reporting requirements for offerings of ABS. The Regulation AB II rules implement several key areas of reform. Specifically, Regulation AB II introduces several new requirements related to public offerings of ABS, including the following that are significant for our Services business:

- Asset-level disclosure requirements for ABS backed by residential mortgage loans, commercial mortgage loans, automobile loans or leases, re-securitizations of ABS backed by any of those asset types, and debt securities; and
- A requirement that the transaction documents provide for the appointment of an "asset representations manager" to review the pool assets when certain trigger events occur.

In June 2015 the final credit rating agency reform rules issued by the SEC became effective. These rules for nationally recognized statistical ratings organizations ("NRSRO") include requirements that are applicable to providers of third-party due diligence services (such as our Services business) for both publicly and privately issued Exchange Act ABS. Among other things, the NRSRO rules require that any issuer or underwriter of registered or unregistered ABS that are to be rated by a NRSRO furnish a form filed on the SEC's EDGAR system that describes the findings and conclusions of any third-party due diligence report obtained by the issuer or underwriter. In addition, the rule requires that a due diligence firm (such as our Services business) that is engaged to perform services in connection with any rated ABS issuance furnish a form that describes the scope of due diligence services performed and a summary of their findings and conclusions; this form is required to be posted on the ABS issuer's password-protected website.

Mortgage Insurance Tax Deduction

In 2006, Congress enacted the private mortgage insurance tax deduction in order to foster homeownership. The deduction was enacted on a temporary basis and it expired at the end of 2011. Since 2011, the private mortgage insurance tax deduction has been extended four times, most recently for insurance premiums paid through December 31, 2017. It has not yet been extended for the 2018 tax year, and it is unclear if and when it may be extended. There continue to be legislative efforts to make this tax deduction permanent, but to date this has not been enacted. It is

difficult to predict whether the deduction will be extended in the future.

Basel III

Over the past few decades, the Basel Committee on Banking Supervision (the “Basel Committee”) has established international benchmarks for assessing banks’ capital adequacy requirements (“Basel III”). Included within those benchmarks

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are capital standards related to residential lending and securitization activity and importantly for private mortgage insurers, the capital treatment of mortgage insurance on those loans. These benchmarks are then interpreted and implemented via rulemaking by U.S. banking regulators. In July 2013, the U.S. banking regulators promulgated regulations, referred to as the “U.S. Basel III Rules,” to implement significant elements of the Basel framework. The U.S. Basel III Rules, among other things, revise and enhance the U.S. banking agencies’ general risk-based capital rules. Today, the U.S. Basel III Rules assign a 20%, 50% or 100% risk weight to loans secured by one-to-four-family residential properties. Generally, under the U.S. Basel III Rules in place today, the explicit government guarantees (FHA/VA/USDA) receive a 0% risk weight, and Fannie Mae and Freddie Mac related loans receive a 20% risk weight. Non-government related mortgage exposures secured by a first lien on a one-to-four family residential property that are prudently underwritten and that are performing according to their original terms receive a 50% risk weighting. All other one-to-four family residential mortgage loans are assigned a 100% risk weight.

In December 2014, the Basel Committee issued a proposal for further revisions to Basel III. It proposed adjustments to the risk weights for residential mortgage exposures that take into account LTV ratio and the borrower’s ability to service a mortgage, which were not previously addressed by Basel III. The proposed LTV ratio did not take into consideration any credit enhancement, including private mortgage insurance, but in March 2015, the U.S. banking regulators clarified that for purposes of the U.S. Basel III Rules, calculation of LTV ratios can account for credit enhancement such as private mortgage insurance in determining whether a loan is made in accordance with prudent underwriting standards for purposes of receiving the preferred 50% risk weight. The comment period for this proposal closed in March 2015, and in December 2015, the Basel Committee released a second proposal which retained the LTV provisions of the initial draft, but not the provisions pertaining to a borrower’s ability to service a mortgage (the “2015 Basel Committee Proposal”). The comment period for the 2015 Basel Committee Proposal closed in March 2016. To date, federal regulators have not adopted or implemented any new regulations, including based on these proposals, that update or modify the U.S. Basel III Rules.

The revised and final recommendations from the Basel Committee with respect to Basel III were published in December 2017 (the “2017 Basel Committee III Recommendations”), and finalized risk weighting guidelines for residential mortgage exposures. These rules recognize guarantees provided by sovereign governments (such as FHA, VA, USDA and Ginnie Mae) as off-setting the capital requirements, resulting in a 0% risk weight. While the 2017 Basel Committee III Recommendations include consideration of LTV ratios, including the impact of credit enhancement provided by third-party private mortgage insurance and the GSEs on LTV ratios, the credit enhancement provided by third-party private mortgage insurance and the GSEs would have higher risk weightings than the explicitly government guaranteed products, putting loans insured by private mortgage insurance at a disadvantage. It remains unclear whether new guidelines will be proposed or finalized in the U.S. in response to the most recent 2017 Basel III Committee Recommendations.

See “Item 1A. Risk Factors—*The implementation of the Basel III guidelines may discourage the use of mortgage insurance.*”

Employees

At December 31, 2018, we had 1,942 employees employed by Radian Group and its subsidiaries. Management considers employee relations to be good.

Item 1A. Risk Factors.***Radian Guaranty may fail to maintain its eligibility status with the GSEs.***

In order to be eligible to insure loans purchased by the GSEs, mortgage insurers such as Radian Guaranty must meet the GSEs’ eligibility requirements, or PMIERS. The PMIERS are comprehensive, covering virtually all aspects of the business of a private mortgage insurer, including internal risk management and quality controls, the relationship between the GSEs and the approved insurer and the approved insurer’s financial condition, as well as extensive requirements related to the conduct and operations of a mortgage insurer’s business. If Radian Guaranty is unable to satisfy the requirements set forth in the PMIERS, Freddie Mac and/or Fannie Mae could restrict it from conducting certain types of business with them or take actions that may include not purchasing loans insured by Radian Guaranty.

The PMIERS financial requirements currently require that a mortgage insurer's Available Assets meet or exceed its Minimum Required Assets. At December 31, 2018, Radian Guaranty was in compliance with the PMIERS financial requirements and had Available Assets under the PMIERS of \$3.5 billion, which resulted in an excess or "cushion" of \$567 million over its Minimum Required Assets of \$2.9 billion. Radian Guaranty's ability to continue to comply with the PMIERS financial requirements could be impacted by: (i) the product mix of our NIW and factors affecting the performance of our mortgage insurance portfolio, including our level of defaults, prepayments, the losses we incur on new or existing defaults and

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the credit characteristics of our mortgage insurance; (ii) the amount of credit that we receive under the PMIERS financial requirements for our third-party reinsurance transactions (which is subject to initial and ongoing review by the GSEs), including the credit received for our quota share and excess-of-loss reinsurance programs; and (iii) potential updates to the PMIERS, including an increase in the capital requirements under the PMIERS financial requirements.

Under the PMIERS financial requirements there are increased financial requirements for loans with a higher likelihood of default and/or certain credit characteristics, such as higher LTVs and lower FICO scores, as well as for loans originated after January 1, 2016 that are insured under lender-paid mortgage insurance policies not subject to automatic termination under the HPA. Therefore, if our mix of business includes more loans that are subject to these increased financial requirements, it increases the amount of Available Assets that Radian Guaranty is required to hold. Depending on the circumstances, we may limit the type and volume of business we are willing to write for certain of our products based on the increased financial requirements associated with certain loans. This could reduce the amount of NIW we write, which could reduce our revenues. Additionally, as we have experienced in the past, our insured loans may experience increased delinquencies in the future. Increases in delinquencies, including as a result of natural disasters, would subject Radian Guaranty to an increase in Minimum Required Assets under the PMIERS, and therefore, could impact our compliance with the PMIERS or negatively impact our results of operations.

The GSEs may amend the PMIERS at any time, although the GSEs have communicated that for material changes, including material changes affecting Minimum Required Assets, they will generally provide written notice 180 days prior to the effective date. The GSEs also have broad discretion to interpret the PMIERS, which could impact the calculation of Radian Guaranty's Available Assets and/or Minimum Required Assets. On September 27, 2018, the GSEs issued PMIERS 2.0, which will become effective on March 31, 2019. Radian expects to comply with PMIERS 2.0 and to continue to maintain a significant excess of Available Assets over Minimum Required Assets as of the effective date. If applied as of December 31, 2018, the changes under PMIERS 2.0 would not have resulted in a material change in Radian's Minimum Required Assets, but would have reduced Radian's PMIERS cushion. The reduction in Radian Guaranty's PMIERS cushion is primarily due to a reduction in Available Assets of approximately \$215 million as a result of the elimination in PMIERS 2.0 of any credit for future premiums for insurance policies written prior to and including 2008, which is permitted under the current PMIERS. If Radian Guaranty's Available Assets and Minimum Required Assets were calculated as if the PMIERS 2.0 requirements were in effect, Radian Guaranty's Available Assets at December 31, 2018 would have resulted in an excess or "cushion" of approximately \$340 million, or 12%, over its Minimum Required Assets. We expect the GSEs to continue to update the PMIERS periodically in the future, including if and when the CCF is finalized.

Compliance with the PMIERS financial requirements could impact our holding company liquidity. If additional cash from Radian Group is required to support Radian Guaranty's compliance with the PMIERS financial requirements, it will leave less liquidity to satisfy Radian Group's other obligations. Depending on the amount of liquidity that is utilized from Radian Group, we may be required (or may decide) to seek additional capital by incurring additional debt, issuing additional equity, or selling assets, which we may not be able to do on favorable terms, if at all.

In addition to the PMIERS financial requirements, the PMIERS contain requirements related to the operations of our mortgage insurance business, including extensive operational requirements in areas such as claim processing, loss mitigation, document retention, underwriting, quality control, reporting and monitoring, among others. These increased operational requirements have resulted in additional expenses and have required substantial time and effort from management and our employees, which we expect will continue.

The PMIERS prohibit Radian Guaranty from engaging in certain activities such as insuring loans originated or serviced by an affiliate (except under certain circumstances) and require Radian Guaranty to obtain the prior consent of the GSEs before taking many actions, which may include entering into various intercompany agreements and commuting or reinsuring risk, among others. These restrictions could prohibit or delay Radian Guaranty from taking certain actions that would be advantageous to it or its affiliates.

Although we expect Radian Guaranty to retain its eligibility status with the GSEs and to continue to comply with the PMIERS financial requirements, including as updated by PMIERS 2.0 or in the future, we cannot provide assurance that this will occur. Loss of Radian Guaranty's eligibility status with the GSEs would have an immediate and material adverse impact on the franchise value of our mortgage insurance business and our future prospects, as well as a material negative impact on our future results of operations and financial condition.

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Part 1 Item 1A. Risk Factors

Our insurance subsidiaries are subject to comprehensive state insurance regulations and other requirements, which we may fail to satisfy.

We and our insurance subsidiaries are subject to comprehensive, detailed regulation by the insurance regulators in the states where they are licensed to transact business. These regulations are principally designed for the protection of our insurance policyholders rather than for the benefit of our investors. Insurance laws vary from state to state, but generally grant broad supervisory powers to examine insurance companies and enforce rules or exercise discretion affecting almost every significant aspect of the insurance business, including the power to revoke or restrict an insurance company's ability to write new business. Among other matters, the state insurance regulators impose various capital requirements on our insurance subsidiaries.

State insurance capital requirements for our mortgage insurance subsidiaries include Risk-to-capital ratios, other risk-based capital measures and surplus requirements that may limit the amount of insurance that our mortgage insurance subsidiaries write. Similarly, our title insurance subsidiary is required to maintain statutory premium reserves that vary by state and is subject to periodic reviews of certain financial performance ratios, and the states in which it is licensed can impose additional capital requirements based on the results of those ratios. Our failure to maintain adequate levels of capital, among other things, could lead to intervention by the various insurance regulatory authorities, which could materially and adversely affect our business, business prospects and financial condition. If Radian Guaranty is not in compliance with a state's applicable Statutory RBC Requirement, it may be prohibited from writing new business in that state until it is back in compliance or it receives a waiver of, or similar relief from, the requirement. As of December 31, 2018, Radian Guaranty was in compliance with all applicable Statutory RBC Requirements. In states that do not have a Statutory RBC Requirement, it is not clear what actions the applicable state regulators would take if a mortgage insurer fails to meet the Statutory RBC Requirement established by another state. If Radian Guaranty were to fail to meet the Statutory RBC Requirement in one or more states, it could be required to suspend writing business in some or all of the states in which it does business. In addition, the GSEs and our mortgage lending customers may decide not to conduct new business with Radian Guaranty (or may reduce current business levels) or impose restrictions on Radian Guaranty while it was not in compliance. The franchise value of our mortgage insurance business likely would be significantly diminished if we were prohibited from writing new business or restricted in the amount of new business we could write in one or more states.

Radian Group also may be required to provide capital support for Radian Guaranty and its affiliated insurers if additional capital is required by those subsidiaries pursuant to future changes to insurance laws and regulations. The NAIC is in the process of reviewing the minimum capital and surplus requirements for mortgage insurers and considering changes to the Model Act. In the event the NAIC adopts changes to the Model Act, we expect that the capital requirements in states that adopt the new Model Act may increase as a result of the changes. Although the outcome of this process remains uncertain, we believe that if changes are made to the Model Act it will not result in financial requirements that require greater capital than the level currently required under the PMIERS financial requirements.

The mortgage insurance industry has always been highly competitive with respect to pricing. Our mortgage insurance subsidiaries' premium rates and policy forms are generally subject to regulation in every state in which they are licensed to transact business. These regulations are intended to protect policyholders against the adverse effects of excessive, inadequate or unfairly discriminatory rates and to encourage competition in the insurance marketplace. In most states where our insurance subsidiaries are licensed, premium rates and policy forms must be filed with the state insurance regulatory authority and, in some states, must be approved, before their use. We may be subject to regulatory inquiries or examinations with respect to our mortgage insurance premium rates and policy forms. Our title insurance business is subject to extensive rate regulation by the applicable state agencies in the states in which it operates. Title insurance rates are regulated differently in various states, with some states requiring the subsidiaries to file and receive approval of rates before such rates become effective and some states promulgating the rates that can be charged. In general, premium rates are determined on the basis of historical data for claim frequency and severity as well as related production costs and other expenses.

Given that the premium rates for our insurance subsidiaries are highly regulated, we could lose business opportunities and fail to successfully implement our business strategies if we are unable to respond to competitor pricing actions and our customers' demands in a timely and compliant manner.

The credit performance of our mortgage insurance portfolio is impacted by macroeconomic conditions and specific events that affect the ability of borrowers to pay their mortgages.

As a seller of mortgage credit protection, our results are subject to macroeconomic conditions and specific events that impact the housing finance and real estate markets, including events that impact mortgage originations and the credit

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performance of our mortgage insurance portfolio. Many of these conditions are beyond our control, including , housing prices, unemployment levels, interest rate changes, the availability of credit and other factors that may be derived from national and regional economic conditions. In general, a deterioration in economic conditions increases the likelihood that borrowers will be unable to satisfy their mortgage obligations. A deteriorating economy can adversely affect housing values, which in turn can influence the willingness of borrowers to continue to make mortgage payments despite having the financial resources to do so.

Mortgage defaults also can occur due to a variety of specific events affecting borrowers, including death or illness, divorce or other family problems, unemployment, or other events. In addition, factors impacting regional economic conditions, acts of terrorism, war or other severe conflicts, event-specific economic depressions or other catastrophic events such as natural disasters could result in increased defaults due to the impact of such events on the ability of borrowers to satisfy their mortgage obligations and the value of affected homes.

Unfavorable macroeconomic developments and the other factors cited above could have a material negative impact on our results of operations and financial condition.

The length of time that our mortgage insurance policies remain in force could decline and result in a decrease in our future revenues.

As of December 31, 2018, 70% of our total primary IIF consists of policies for which we expect to receive premiums in the future, typically through Monthly Premium Policies. As a result, most of our earned premiums are derived from insurance that was written in prior years. The length of time that this insurance remains in force, which we refer to as the Persistency Rate, is a significant driver of our future revenues, with a lower overall Persistency Rate generally reducing our future revenues. The factors affecting the length of time that our insurance remains in force include: prevailing mortgage interest rates compared to the mortgage rates on our IIF, which affects the incentive for borrowers to refinance (i.e., lower current interest rates make it more attractive for borrowers to refinance and receive a lower interest rate);

applicable policies for mortgage insurance cancellation, along with the current value of the homes underlying the mortgages in our IIF;

the credit policies of lenders, which may make it more difficult for homeowners to refinance loans; and

economic conditions that can affect a borrower's decision to pay off a mortgage earlier than required.

If these or other factors cause a decrease in the length of time that our Monthly Premium Policies (or other policies for which we expect to receive premiums in the future) remain in force, our future revenues could be negatively impacted, which could negatively impact our results of operations and financial condition.

Our Loss Mitigation Activity is not expected to mitigate mortgage insurance losses to the same extent as in prior years; Loss Mitigation Activity could continue to negatively impact our customer relationships.

As part of our claims management process we pursue opportunities to mitigate losses both before and after we receive claims, including processes to ensure claims are valid. Following the financial crisis, our Loss Mitigation Activities, such as Rescissions, Claim Denials and Claim Curtailments, increased significantly in response to the poor underwriting, servicer negligence and general non-compliance with our insurance policies that was prevalent in the period leading up to the financial crisis. These Loss Mitigation Activities materially mitigated our paid losses during this period and resulted in a significant reduction in our loss reserves. Following the financial crisis, mortgage underwriting and servicing have generally improved, and the amount of Loss Mitigation Activity required with respect to the claims we have received in more recent periods has significantly decreased. As a result, our future Loss Mitigation Activity is not expected to mitigate our paid losses to the same extent as it did in the years following the financial crisis.

In addition, under our 2014 Master Policy, for NIW after October 1, 2014, our rights to conduct Loss Mitigation Activity generally are more limited than under our prior master insurance policies. Radian Guaranty offers 12-month and 36-month rescission relief programs in accordance with the specified terms and conditions set forth in our 2014 Master Policy. Further, the FHFA and the GSEs have proposed revised GSE Rescission Relief Principles to, among other things, further limit the circumstances under which mortgage insurers may rescind coverage. We are in the

process of incorporating these principles into a new master policy, which we expect will be effective during the second half of 2019. We currently are in discussions with the GSEs regarding the form of this new master policy, including as it relates to these proposed principles, which if adopted, are likely to further reduce our ability to rescind insurance coverage in the future. A reduction in the Loss Mitigation rights available under our master policy could result in higher losses than would have been the case under our existing Master Policies.

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Our Loss Mitigation Activities and claims paying practices have resulted in disputes with certain of our customers and in some cases, damaged our relationships with customers, resulting in a loss of business. While we have resolved many of these disputes, a risk remains that our Loss Mitigation Activities or claims paying practices could continue to have a negative impact on our relationships with customers or potential customers. Further, disputes with our customers that are not resolved could result in additional arbitration or judicial proceedings beyond those we are currently facing. See “Item 3. Legal Proceedings.” To the extent that past or future Loss Mitigation Activities or claims paying practices impact our customer relationships, our competitive position could be adversely affected, resulting in the potential loss of business and impacting our results of operations.

Changes in the charters, business practices, or role of the GSEs in the U.S. housing market generally, could significantly impact our mortgage insurance business.

Our current business model is highly dependent on the GSEs as the GSEs are the primary beneficiaries of most of our mortgage insurance policies. The GSEs’ federal charters generally require credit enhancement for low down payment mortgage loans (i.e., a loan amount that exceeds 80% of a home’s value) in order for such loans to be eligible for purchase by them. Lenders generally have used private mortgage insurance to satisfy this credit enhancement requirement. As a result, low down payment mortgages purchased by the GSEs generally are insured with private mortgage insurance. In order to be eligible to insure loans purchased by the GSEs, mortgage insurers such as Radian Guaranty must meet the GSEs’ eligibility requirements, or PMIERS.

The GSEs’ business practices may be impacted by their results of operations, by administrative policy decisions (such as a desire to increase the competitiveness of private capital executions in the secondary mortgage market) as well as by legislative or regulatory changes. Since September 2008, the GSEs have been operating under the conservatorship of the FHFA. With respect to loans purchased by the GSEs, changes in the business practices of the GSEs, which can be implemented by the GSEs acting independently or through their conservator, the FHFA, could negatively impact our mortgage insurance business and financial performance, including changes to:

- eligibility requirements for a mortgage insurer to become and remain an approved eligible insurer for the GSEs;
- underwriting standards on mortgages they purchase;
- policies or requirements that may result in a reduction in the number of mortgages they acquire;
- the national conforming loan limit for mortgages they acquire;
- the level of mortgage insurance required, including expanding the loans that are eligible for reduced insurance coverage;
- the terms on which mortgage insurance coverage may be canceled before reaching the cancellation thresholds established by law;
- the terms required to be included in master policies for the mortgage insurance policies they acquire, including limitations on our ability to mitigate losses on insured mortgages that are in default;
- the amount of loan level price adjustments (based on risk) or guarantee fees (which may result in a higher cost to borrowers) that the GSEs charge on loans that require mortgage insurance; and
- the degree of influence that the GSEs have over a mortgage lender’s selection of the mortgage insurer providing coverage.

The FHFA has called for the GSEs to transfer a meaningful portion of credit risk, known as a “credit risk transfer,” to the private sector. This mandate builds upon the goals set in each of the last three years for the GSEs to increase the role of private capital by experimenting with different forms of transactions and structures. From 2013 through June 2018 the GSEs transferred risk on over \$2.5 trillion of unpaid principal balance, and we expect these credit risk transfer transactions to continue. We have been participating in these credit risk transfer programs developed by Fannie Mae and Freddie Mac. Additional information about these programs may be found in Item 1. Business, see “Regulation—Federal Regulation—*Housing Finance Reform*” and “Mortgage Insurance—Mortgage Insurance Business Overview—*Mortgage Insurance Products—Other Mortgage Insurance Products—GSE Credit Risk Transfer.*”

It is difficult to predict what other types of credit risk transfer transactions and structures may be used in the future. If any of the credit risk transfer transactions and structures were to displace primary loan level or standard levels of

mortgage insurance, the amount of insurance we write may be reduced, which could negatively impact our franchise value, results of operations and financial condition. As a result, the impact of any credit risk transfer products and transactions or other

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structures implemented by the GSEs is uncertain and hard to predict. For example, in 2018, Freddie Mac and Fannie Mae announced the launch of limited pilot programs, IMAGIN and EPMI, respectively, as alternative ways for lenders to sell to the GSEs loans with LTVs greater than 80%. These investor-paid mortgage insurance programs, in which insurance is acquired directly by each GSE, have many of the same features and represent an alternative to traditional private mortgage insurance products that are provided to individual lenders. Participants in IMAGIN and EPMI are not subject to compliance with the PMIERS, which may create a competitive disadvantage for private mortgage insurers if these pilot programs are expanded. See “Item 1. Business—Regulation—Federal Regulation—*Housing Finance Reform*”

Since the FHFA was appointed as conservator of the GSEs, there has been a wide range of legislative proposals to reform the U.S. housing finance market, including proposals for GSE reform ranging from some that advocate nearly complete privatization and elimination of the role of the GSEs to others that support a system that combines a federal role with private capital. In addition, the Trump administration and U.S. Treasury have stated that they are seeking to advance housing finance reform, particularly if the U.S. Congress does not take action to end the current conservatorship of the GSEs. Under current law, the FHFA has significant discretion with respect to the future state of the GSEs, including the ability to place the GSEs into receivership without further legislative action. The term of the most recent director of the FHFA ended in January 2019 and an acting director was appointed, pending the U.S. Senate’s confirmation of the Administration’s nominee to lead the FHFA. With new leadership at FHFA, we believe there may be an increased likelihood that the Administration could take action to reform the GSEs through current authorities of the director under The Housing and Economic Recovery Act of 2008 and through Executive Order. The future structure of the residential housing finance system remains uncertain, including whether comprehensive housing reform legislation will be adopted and, if so, what form it may ultimately take. It is difficult to predict the impact of any changes on our business. See “Item 1. Business—Regulation—Federal Regulation—*Housing Finance Reform*.” Although we believe that traditional private mortgage insurance will continue to play an important role in any future housing finance structure, developments in the practices of the GSEs, including potentially new federal legislation that reduces the level of private mortgage insurance coverage used by the GSEs as credit enhancement, or even eliminates the requirement, may diminish the franchise value of our mortgage insurance business and materially and adversely affect our business prospects, results of operations and financial condition.

A decrease in the volume of mortgage originations could result in fewer opportunities for us to write new mortgage insurance business.

The amount of new business we write depends, among other things, on a steady flow of low down payment mortgages that benefit from our mortgage insurance. The volume of low down payment mortgage originations is impacted by a number of factors, including:

- restrictions on mortgage credit due to changes in lender underwriting standards, capital requirements affecting lenders, regulatory requirements, and the health of the private securitization market;
- mortgage interest rates;
- the health of the domestic economy generally, as well as specific conditions in regional and local economies;
- housing affordability;
- tax laws and policies and their impact on, among other things, deductions for mortgage insurance premiums, mortgage interest payments and real estate taxes;
- demographic trends, including the rate of household formation;
- the rate of home price appreciation;
- government housing policy encouraging loans to first-time homebuyers; and
- the practices of the GSEs, including the extent to which the guaranty fees, loan level price adjustments (based on risk), credit underwriting guidelines and other business terms provided by the GSEs affect the cost of mortgages and lenders’ willingness to extend credit for low down payment mortgages.

If the overall volume of new mortgage originations declines, we could experience a reduced opportunity to write new insurance business and likely will be subject to increased competition, which could negatively affect our business

prospects, results of operations and our financial condition.

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Our NIW and franchise value could decline if we lose business from significant customers.

Our mortgage insurance business depends on our relationships with our customers. Our customers place insurance with us directly on loans that they originate and they also do business with us indirectly through purchases of loans that already have our mortgage insurance coverage. Our relationships with our customers may influence both the amount of business they do with us directly and also their willingness to continue to approve us as a mortgage insurance provider for loans that they purchase. The loss of business from significant customers could have an adverse effect on the amount of new business we are able to write, and consequently, our franchise value.

During 2018, our top 10 mortgage insurance customers (measured by NIW) were responsible for 29.1% of our primary NIW, as compared to 32.4% in 2017. If we were to lose a significant customer, it is unlikely that the loss could be completely offset by other customers in the near-term, if at all. Some of our lending customers may decide to write business only with a limited number of mortgage insurers or only with certain mortgage insurers, based on their views with respect to an insurer's pricing, service levels, underwriting guidelines, loss mitigation practices, financial strength or other factors. Alternatively, certain other lending customers have chosen for risk management purposes to diversify the mortgage insurers with which they do business, which has negatively affected our level of NIW and market share with those customers. Given that many of our customers currently give us a significant portion of their total mortgage insurance business, it is possible that if there is further diversification it could have a negative impact on our NIW if we are unable to mitigate the market share loss through new customers or increases in business with other customers. Further, we actively engage with our customers to ensure that we are receiving an appropriate mix of business from such customers at acceptable projected returns, and depending on the circumstances, we could take action with respect to customers (e.g., limiting the type of business we accept from them or instituting pricing changes that impact them) that could result in customers reducing the amount of business they do with us or deciding not to do business with us altogether. Any significant loss in our market share could negatively impact our mortgage insurance franchise, results of operations and financial condition.

Our mortgage insurance business faces intense competition.

The U.S. mortgage insurance industry is highly competitive. Our competitors primarily include other private mortgage insurers and governmental agencies, principally the FHA and VA.

We currently compete with other private mortgage insurers that are eligible to write business for the GSEs on the basis of price, underwriting guidelines, customer relationships, reputation, perceived financial strength (including based on comparative financial strength credit ratings) and overall service. Overall service competition is based on, among other things, effective and timely delivery of products, timeliness of claims payments, customer service, timely and accurate servicing of policies, training, loss mitigation efforts and management and field service expertise. We also believe that service includes our ability to offer services to customers through our Services business that complement our mortgage insurance products. For more information about our competitive environment, including pricing competition, see "Item 1. Business—Mortgage Insurance—Competition."

In developing our pricing and origination strategies, we monitor various competitive and economic factors while seeking to increase the long-term value of our portfolio by balancing both profitability and volume considerations. Pricing strategies continue to evolve in the mortgage insurance industry and mortgage insurers are migrating toward offering various pricing methodologies with increasing degrees of risk-based granularity. Our strategy is to consistently apply an approach to pricing that is customer-centric based on a lender's loan origination process, flexible and customizable, as well as balanced with our objectives for managing the risk and return profile of our insured portfolio. Although we believe we are well-positioned to compete effectively, our pricing strategy may not be successful. Despite our pricing actions, we may experience returns below our targeted returns and we may lose business to other competitors. There can be no assurance that pricing competition will not intensify further, which could result in a decrease in our projected returns.

Certain of our private mortgage insurance competitors are subsidiaries of larger corporations, may have access to greater amounts of capital and financial resources than we do at a lower cost of capital (including off-shore reinsurance vehicles) and currently have better financial strength ratings than we have. As a result, they may be better

positioned to compete outside of traditional mortgage insurance, including in the private label securitization market or if the GSEs expand their use of, or pursue alternative forms of, credit enhancement outside of private mortgage insurance in its traditional form. In addition, because of tax advantages associated with being off-shore, certain of our competitors have been able to reinsure to their offshore affiliates and achieve higher after-tax rates of return on the NIW they write compared to on-shore mortgage insurers such as Radian Guaranty, which could allow these off-shore competitors to leverage reduced pricing to gain market share, while continuing to achieve acceptable returns on NIW. We also compete with governmental entities, such as the FHA and VA, primarily on the basis of loan limits, pricing, credit guidelines, terms of our insurance policies and loss mitigation practices. These governmental entities typically do not have the

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same capital requirements or business objectives that we and other private mortgage insurance companies have, and therefore, may have greater financial flexibility in their pricing guidelines and capacity that could put us at a competitive disadvantage. If these entities lower their pricing or alter the terms and conditions of their mortgage insurance or other credit enhancement products in furtherance of political, social or other goals rather than a profit motive, we may be unable to compete in that market effectively, which could have an adverse effect on our business, financial condition and operating results.

Beginning in 2008, the FHA, which historically had not been a significant competitor, substantially increased its share of the mortgage insurance market, including by insuring a number of loans that would meet our current underwriting guidelines, sometimes at a lower monthly cost to the borrower than a loan that carries our mortgage insurance. The FHA may continue to maintain a strong market position and could increase its market position. Factors that could cause the FHA to remain a significant competitor include:

- governmental policy, including decreases in the pricing of FHA insurance or changes in the terms of FHA insurance such as the current life-of-loan coverage requirement;
 - capital constraints of the private mortgage insurance industry;
 - the tightening by private mortgage insurers of underwriting guidelines based on credit risk concerns;
 - business changes by the GSEs, including underwriting changes, a reduction in loan limits or increases in the loan level price adjustments (based on risk) charged by the GSEs on loans that require mortgage insurance and changes in the amount of guarantee fees for the loans that they acquire (which may result in higher cost to borrowers); and
 - the perceived operational ease of using FHA insurance compared to the products of private mortgage insurers.
- Other private mortgage insurers may seek to compete for market share from the FHA or other mortgage insurers by reducing pricing, which could, in turn, improve their competitive position in the industry and negatively impact our level of NIW.

We have faced increasing competition from the VA. Based on publicly available information, the VA accounted for 25% of the insurable mortgage market in 2018. We believe that the VA's market share has generally been increasing because the VA offers 100% LTV loans and charges a one-time funding fee that can be included in the loan amount with no additional monthly expense, and because of an increase in the number of borrowers that are eligible for the VA's program.

- In addition, as market conditions change, alternatives to traditional private mortgage insurance may become more prevalent, which could reduce the demand for private mortgage insurance in its traditional form, including:
- structures, such as the limited pilot programs IMAGIN and EPMI launched in 2018 by Freddie Mac and Fannie Mae, respectively, that are commonly referred to as "investor paid mortgage insurance" in which affiliates of traditional mortgage insurers directly insure the GSEs against loss;
 - lenders and other investors holding mortgages in their portfolio and self-insuring;
 - lenders using pass-through vehicles that take on the risk of loss for loans ultimately sold to the GSEs;
 - structured risk transfer transactions in the capital markets;
 - risk sharing, risk transfer or using other risk mitigation techniques in conjunction with reduced levels of private mortgage insurance coverage;
 - lenders originating mortgages using "piggyback" structures to avoid private mortgage insurance, such as a first-lien mortgage with an 80% LTV and a second mortgage with a 10%, 15% or 20% LTV, which could become more attractive given that interest on piggyback loans remains tax deductible while the tax deduction for mortgage insurance premiums has not been extended beyond the 2017 tax year; and
 - other potential forms of credit enhancement that do not involve private mortgage insurance.

See "*—Changes in the charters, business practices, or role of the GSEs in the U.S. housing market generally, could significantly impact our mortgage insurance business.*"

Managing the competitive environment is extremely challenging given the multitude of factors discussed above. If we do not appropriately manage the strategic decisions required in this environment, our franchise value, business

prospects, results of operations and financial condition could be negatively impacted.

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Our business depends, in part, on effective and reliable loan servicing.

We depend on third-party servicing of the loans that we insure. Dependable servicing is necessary for timely billing and effective loss mitigation opportunities for delinquent or near-delinquent loans. Changes in the servicing industry, challenging economic and market conditions or periods of economic stress and high mortgage defaults could negatively affect the ability of servicers to effectively service the loans that we insure. Further, servicers are required to comply with more burdensome requirements, procedures and standards for servicing residential mortgages than in the past, such as the CFPB's mortgage servicing rules. While these requirements are intended to improve servicing performance, they also impose a high cost of compliance on servicers that may impact their financial condition and their operating effectiveness. If we experience a disruption in the servicing of mortgage loans covered by our insurance policies, this, in turn, could contribute to a rise in defaults and/or claims among those loans, which could have a material adverse effect on our business, financial condition and operating results.

An extension in the period of time that a loan remains in our delinquent loan inventory may increase the severity of claims that we ultimately are required to pay.

High levels of defaults and corresponding delays in foreclosures could delay our receipt of claims, resulting in an increase in the period of time that a loan remains in our delinquent loan inventory, and as a result, the Claim Severity. Following the financial crisis, the average time that it took for us to receive a claim increased. This was, in part, due to loss mitigation protocols that were established by servicers and also to a significant backlog of foreclosure proceedings in many states, and especially in those states that impose a judicial process for foreclosures. Generally, foreclosure delays do not stop the accrual of interest or affect other expenses on a loan, and unless a loan is cured during such delay, once title to the property ultimately is obtained and a claim is filed, our paid claim amount may include additional interest and expenses, increasing the Claim Severity. While foreclosure timelines have improved in recent years, a portion of our portfolio originated in the years prior to and including 2008 consists of severely delinquent loans. Further, another period of significant economic stress and a high level of defaults could once again delay claims and result in higher levels of Claim Severity. Higher levels of Claim Severity would increase our incurred losses and could negatively impact our results of operations and financial condition.

Our success depends on our ability to assess and manage our underwriting risks; the premiums we charge may not be adequate to compensate us for our liability for losses and the amount of capital we are required to hold against our insured risks. We expect to incur future provisions for losses beyond what we have reserved for in our financial statements.

The estimates and expectations we use to establish premium rates are based on assumptions made at the time our insurance is written. Our mortgage insurance premiums are based on, among other items, the amount of capital we are required to hold against our insured risks and our estimates of the long-term risk of claims on insured loans. Our premium rates are established based on performance models that consider a broad range of borrower, loan and property characteristics, as well as market and economic conditions. Our assumptions may ultimately prove to be inaccurate.

If the risk underlying a mortgage loan we have insured develops more adversely than we anticipated, we generally cannot increase the premium rates on this in-force business, or cancel coverage or elect not to renew coverage, to mitigate the effects of such adverse developments. Similarly, we cannot adjust our premiums if the amount of capital we are required to hold against our insured risks increases from the amount we were required to hold at the time a policy was written. As a result, if we are unable to compensate for or offset the increased capital requirements in other ways, the returns on our business may be lower than we assumed or expected. Our premiums earned and the associated investment income on those premiums may ultimately prove to be inadequate to compensate for the losses that we may incur and may not provide an adequate return on increased capital that may be required. As a result, our results of operations and financial condition could be negatively impacted.

Additionally, in accordance with industry practice, we do not establish reserves in our mortgage insurance business until we are notified that a borrower has failed to make at least two monthly payments when due. Because our mortgage insurance reserving does not account for the impact of future losses that we expect to incur with respect to

performing (non-defaulted) loans, our obligation for ultimate losses that we expect to incur at any period end is not reflected in our financial statements, except to the extent that a premium deficiency exists. As a result, our losses can be more severe in periods of high defaults given that we generally are not permitted to establish reserves in anticipation of such defaults.

If the estimates we use in establishing loss reserves are incorrect, we may be required to take unexpected charges to income, which could adversely affect our results of operations.

We establish loss reserves in our mortgage insurance business to provide for the estimated cost of future claims on defaulted loans. Setting our loss reserves requires significant judgment by management with respect to the likelihood,

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magnitude and timing of each potential loss, including an estimate of the impact of our Loss Mitigation Activities with respect to defaulted loans. The models, assumptions and estimates we use to establish loss reserves may not prove to be accurate, especially in the event of an extended economic downturn or a period of extreme market volatility and uncertainty. Because of this, claims paid may be substantially different than our loss reserves and these reserves may be insufficient to satisfy the full amount of claims that we ultimately have to pay. Changes to our estimates could adversely impact our results of operations and financial condition.

A portion of the defaulted loans in our portfolio originated in the years prior to and including 2008 have been in default for an extended period of time. While these loans are generally assigned a higher loss reserve based on our belief that they are more likely to result in a claim, we also assume, based on historical trends, that a significant portion of these loans will cure or otherwise not result in a claim. Given the significant period of time that these loans have been in default, it is possible that the ultimate cure rate for these defaulted loans will be less than our current estimates of Cures for this inventory of defaults.

If our estimates are inadequate, we may be required to increase our reserves, which could have a material adverse effect on our results of operations and financial condition.

Our delegated underwriting program may subject our mortgage insurance business to unanticipated claims.

In our mortgage insurance business, we permit lenders to obtain mortgage insurance for residential mortgage loans originated and underwritten by them using Radian's pre-established underwriting guidelines. Once we accept a lender into our delegated underwriting program, we generally insure a mortgage loan originated by that lender based on our expectation that the lender has followed our specified underwriting guidelines in accordance with the endorsement. Under this program, a lender could commit us to insure a material number of loans with unacceptable risk profiles before we discover the problem and terminate that lender's delegated underwriting authority or pursue other rights that may be available to us, such as our rights to rescind coverage or deny claims.

We face risks associated with our contract underwriting business.

We provide third-party contract underwriting services for both our mortgage insurance and Services customers. We provide these customers with limited indemnification rights with respect to those loans that we simultaneously underwrite for both secondary market compliance and for potential mortgage insurance eligibility. In addition, in certain circumstances, we may also offer limited indemnification when we underwrite a loan only for secondary market compliance. In addition to indemnification, we typically have limited loss mitigation defenses available to us for loans that we have underwritten through our contract underwriting services. As a consequence, our results of operations could be negatively impacted if we are required to indemnify our customers for material underwriting errors in our contract underwriting services.

The current financial strength ratings assigned to our mortgage insurance subsidiaries could weaken our competitive position.

Radian Guaranty has been assigned a rating of Baa2 by Moody's and a rating of BBB+ by S&P. While Radian Guaranty's financial strength ratings currently are investment grade, these ratings are below the ratings assigned to certain other private mortgage insurers. We do not believe our ratings have had a material adverse effect on our relationships with existing customers. However, if financial strength ratings become a more prominent consideration for lenders, we may be competitively disadvantaged by customers choosing to do business with private mortgage insurers that have higher financial strength ratings. In addition, the current PMIERS and PMIERS 2.0 will not include a specific ratings requirement with respect to eligibility, but if this were to change in the future, we may become subject to a ratings requirement in order to retain our eligibility status under the PMIERS.

The GSEs currently consider financial strength ratings, among other items, to determine the amount of collateral that an insurer must post when participating in the credit risk transfer transactions currently being conducted by the GSEs. As a result, the returns that we are able to achieve when participating in these transactions are dependent, in part, on our financial strength ratings. We currently use Radian Reinsurance to participate in the GSEs' credit risk transfer transactions. Radian Reinsurance has been assigned a rating of BBB+ by S&P. Market participants with higher ratings than us generally have the ability to price more aggressively, and therefore, are better positioned than us to compete in

these transactions.

We believe that financial strength ratings remain a significant consideration for participants seeking to secure credit enhancement in the non-GSE mortgage market, which includes most non-qualified mortgage loans. While this market has remained limited since the financial crisis, we view this market as an area of potential future growth and our ability to participate in this market could depend on our ability to secure higher ratings for our mortgage insurance subsidiaries. In addition, if legislative or regulatory changes were to alter the current state of the housing finance industry such that the GSEs

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no longer operate in their current capacity or loans purchased by the GSEs were no longer automatically deemed qualified mortgages under the QM Rule, we may be forced to compete in a new marketplace in which financial strength ratings may play a greater role. If we are unable to compete effectively in the current or any future markets as a result of the financial strength ratings assigned to our mortgage insurance subsidiaries, the franchise value and future prospects for our mortgage insurance business could be negatively affected.

Our success depends, in part, on our ability to manage risks in our investment portfolio.

Our investment portfolio is an important source of revenue and is our primary source of claims paying resources. Although our investment portfolio consists mostly of highly-rated fixed income investments, our investment strategy is affected by general economic conditions, which may adversely affect the markets for credit and interest-rate-sensitive securities, including the extent and timing of investor participation in these markets, the level and volatility of interest rates and credit spreads and, consequently, the value of our fixed income securities, and as such, we may not achieve our investment objectives. Volatility or lack of liquidity in the markets in which we hold positions has at times reduced the market value of some of our investments, and if this worsens substantially it could have a material adverse effect on our liquidity, financial condition and results of operations.

Although in recent years our portfolio yield has been increasing, interest rates and investment yields on our investments continue to be below historical averages, which has reduced the investment income we generate. For the significant portion of our investment portfolio held by our insurance subsidiaries, to receive full capital credit under insurance regulatory requirements and under the PMIERS, we generally are limited to investing in highly-rated investments that are unlikely to increase our investment returns. Because we depend on our investments as a source of revenue, a prolonged period of lower than expected investment yields would have an adverse impact on our revenues and could potentially adversely affect our results of operations. Further, future updates to the NAIC Model Act or PMIERS could impact our investment choices, which could negatively impact our investment strategy.

In addition, we structure our investment portfolio to satisfy our expected liabilities, including claim payments in our mortgage insurance business. If we underestimate our liabilities or improperly structure our investments to meet these liabilities, we could have unexpected losses resulting from the forced liquidation of investments before their maturity, which could adversely affect our results of operations.

Radian Group's sources of liquidity may be insufficient to fund its obligations.

Radian Group serves as the holding company for our operating subsidiaries and does not have any operations of its own. As of December 31, 2018, Radian Group had available, either directly or through unregulated subsidiaries, unrestricted cash and liquid investments of \$714.1 million. This amount certain additional cash and liquid investments that have been advanced to Radian Group from our subsidiaries for corporate expenses and interest payments. Total liquidity, which includes our undrawn \$267.5 million unsecured revolving credit facility entered into in October 2017, was \$981.6 million as of December 31, 2018.

Radian Group's principal liquidity demands for the next 12 months are expected to include: (i) the payment of corporate expenses, including taxes; (ii) the payment of \$159 million principal amount of our outstanding Senior Notes due 2019; (iii) interest payments on our outstanding debt obligations; and (iv) the payment of dividends on our common stock. Radian Group's liquidity demands for the next 12 months or in future periods could also include: (i) the potential use of up to \$100 million to repurchase Radian Group common stock pursuant to the existing share repurchase authorization; (ii) capital support for Radian Guaranty and our other insurance subsidiaries; (iii) repayments, repurchases or early redemptions of portions of our debt obligations; and (iv) potential investments to support our business strategy.

In addition to existing available cash and marketable securities, Radian Group's principal sources of cash to fund future short-term liquidity needs include payments made to Radian Group under tax- and expense-sharing arrangements with our subsidiaries. Radian Group has expense-sharing arrangements in place with its principal operating subsidiaries that require those subsidiaries to pay their allocated share of certain holding-company-level expenses, including interest payments on most of our outstanding senior notes. The expense-sharing arrangements between Radian Group and our insurance subsidiaries, as amended, have been approved by the Pennsylvania

Insurance Department, but such approval may be modified or revoked at any time.

The Services segment has not generated sufficient cash flows to pay dividends to Radian Group. Additionally, while cash flow is expected to be sufficient to pay the Services segment's direct operating expenses, it has not been sufficient to satisfy its obligations to reimburse Radian Group for its allocated operating expense and interest expense under tax- and expense-sharing arrangements. We do not expect the Services segment will be able to bring its reimbursement obligations current for the

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foreseeable future. In the event the cash flow from operations of the Services segment is not adequate to fund all of its needs, Radian Group may provide additional funds to the Services segment in the form of a capital contribution or an intercompany note. Further, in light of Radian Guaranty's negative unassigned surplus related to operating losses in prior periods, we do not anticipate that Radian Guaranty will be permitted under applicable insurance laws to pay ordinary dividends to Radian Group for the foreseeable future.

In addition to our short-term liquidity needs discussed above, Radian Group's liquidity demands beyond the next 12 months are expected to include: (i) the repayment of our outstanding debt obligations; and (ii) potential additional capital contributions to our subsidiaries. We expect to meet the long-term liquidity needs of Radian Group with a combination of: (i) available cash and marketable securities; (ii) private or public issuances of debt or equity securities, which we may not be able to do on favorable terms, if at all; (iii) cash received under tax- and expense-sharing arrangements with our subsidiaries; (iv) to the extent available, dividends from our subsidiaries; and (v) any amounts that Radian Guaranty is able to successfully redeem under the Surplus Note.

As of December 31, 2018, certain of our subsidiaries have incurred federal NOLs that could not be carried-back and utilized on a separate company tax return basis. As a result, we are not currently obligated under our tax-sharing agreement to reimburse these subsidiaries for their separate company federal NOL carryforward. However, if in a future period, one of these subsidiaries utilizes its share of federal NOL carryforwards on a separate entity basis, then Radian Group may be obligated to fund such subsidiary's share of our consolidated tax liability to the IRS. Certain subsidiaries, including Clayton, currently have federal NOLs on a separate entity basis that are available for future utilization. However, we do not expect to fund material obligations related to these subsidiary NOLs.

In light of Radian Group's short- and long-term needs, it is possible that our sources of liquidity could be insufficient to fund our obligations and could exceed available holding company funds. If this were to occur, we may need or otherwise may decide to increase our available liquidity by incurring additional debt, by issuing additional equity or by selling assets, any of which we may be unable to do on favorable terms, if at all.

Our revolving credit facility contains restrictive covenants that could limit our operating flexibility. A default under our credit facility could trigger an event of default under the terms of our senior notes. We may not have access to funding under our credit facility when we require it.

Radian Group is a party to a \$267.5 million unsecured revolving credit facility with a syndicate of bank lenders. Radian Group's obligations under the credit facility are guaranteed by Clayton and may in the future be guaranteed by other subsidiaries of Radian Group. As of December 31, 2018, no borrowings were outstanding under the credit facility.

The credit facility contains certain restrictive covenants that, among other things, provide certain limitations on our ability to incur additional indebtedness, make investments, create liens, transfer or dispose of assets, merge with or acquire other companies and pay dividends. The credit facility also requires us to comply with certain financial covenants and further provides that (i) Radian Group must be rated by S&P or Moody's and (ii) Radian Guaranty must remain eligible under the PMIERS to insure loans purchased by the GSEs. A failure to comply with these covenants or the other terms of the credit facility could result in an event of default, which could (i) result in the termination of the commitments by the lenders to make loans to Radian Group under the credit facility and (ii) enable the lenders to declare, subject to the terms and conditions of the credit facility, any outstanding obligations under the credit facility to be immediately due and payable.

Further, the occurrence of an event of default under the terms of our credit facility may trigger an event of default under the terms of our senior notes. An event of default occurs under the terms of our senior notes if a default (i) in any scheduled payment of principal of other indebtedness by Radian Group or its subsidiaries of more than \$100 million principal amount occurs, after giving effect to any applicable grace period or (ii) in the performance of any term or provision of any indebtedness of Radian Group or its subsidiaries in excess of \$100 million principal amount that results in the acceleration of the date such indebtedness is due and payable, subject to certain limited exceptions. See Note 12 of Notes to Consolidated Financial Statements for more information on the carrying value of our senior notes.

If the commitments of the lenders are terminated or we are unable to satisfy certain covenants or representations, we may not have access to funding in a timely manner, or at all, when we require it. If funding is not available under the credit facility when we require it, our ability to continue our business practices or pursue our current strategy could be limited. If the indebtedness under the credit facility or our senior notes is accelerated, we may not be able to repay our debt or borrow sufficient funds to refinance it. Even if we are able to obtain new financing, it may not be on commercially reasonable terms or on terms that are acceptable to us. If there were to be an event of default under our credit facility or senior notes for any reason, our cash flows, financial results or financial condition could be materially and adversely affected.

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Our reported earnings are subject to fluctuations based on changes in our trading securities and short-term investments that require us to adjust their fair market value.

We have significant holdings of trading securities, equity securities and short-term investments that we carry at fair value. Because the changes in fair value of these financial instruments are reflected on our statements of operations each period, they affect our reported earnings and can create earnings volatility. Among other factors, interest rate changes, market volatility and declines in the value of underlying collateral will impact the value of our investments, potentially resulting in unrealized losses that could negatively impact our results of operations.

Our information technology systems may fail or become outmoded, be temporarily interrupted or otherwise cause us to be unable to meet our customers' demands.

Our business is highly dependent on the effective operation of our information technology systems, which are vulnerable to damage or interruption from power outages, computer and telecommunications failures, computer viruses, cyber-attacks, security breaches, catastrophic events and errors in usage. Although we have disaster recovery and business continuity plans in place, we may not be able to adequately execute these plans in a timely fashion. Additionally, our ability to meet the needs of our customers depends on our ability to keep pace with technological advances and to invest in new technology as it becomes available or otherwise upgrade our technological capabilities. We rely on e-commerce and other technologies to provide our products and services to our customers, and they generally require that we provide an increasing number of our products and services electronically. Accordingly, we may not satisfy our customers' requirements if we fail to invest sufficient resources or are otherwise unable to maintain and upgrade our technological capabilities. Further, customers may choose to do business only with business partners with which they are technologically compatible and may choose to retain existing relationships with mortgage insurance or mortgage and real estate services providers rather than invest the time and resources to on-board new providers. As a result, technology can represent a potential barrier to signing new customers. Because we rely on our information technology systems for many critical functions, including connecting with our customers, if such systems were to fail, experience a prolonged interruption, or become outmoded, we may experience a significant disruption in our operations and in the business we receive, which could have a material adverse effect on our business, financial condition and operating results.

In addition, we are in the process of implementing a major technology project to improve our operating systems, including a new platform for our mortgage insurance underwriting, policy administration, claims management and billing processes. The implementation of these technological improvements is complex, expensive, time consuming and, in certain respects, depends on the ability of third parties to perform their obligations in a timely manner. If we fail to timely and successfully implement the new technology systems and business processes, or if the systems do not operate as expected, it could have an adverse impact on our business, business prospects and results of operations.

The security of our information technology systems may be compromised and confidential information, including non-public personal information that we maintain, could be improperly disclosed.

Our information technology systems may be vulnerable to physical or electronic intrusions, computer viruses or other attacks, including cyberattacks. As part of our business, we, and certain of our subsidiaries and affiliates, maintain large amounts of confidential information, including non-public personal information on borrowers, consumers and our employees. Breaches in security could result in the loss or misuse of this information, which could, in turn, result in potential regulatory actions or litigation, including material claims for damages, as well as interruption to our operations and damage to our customer relationships and reputation. While we have information security policies, controls and systems in place in order to attempt to prevent, detect and respond to unauthorized use or disclosure of confidential information, including non-public personal information, there can be no assurance that such use or disclosure will not occur. Any cybersecurity or other compromise of the security of our information technology systems, or unauthorized use or disclosure of confidential information, could subject us to liability, regulatory scrutiny and action, damage to our reputation and customer relationships and could have a material adverse effect on our business prospects, financial condition and results of operations.

We are subject to litigation and regulatory proceedings.

We operate in highly regulated industries that are subject to a heightened risk of litigation and regulatory proceedings. We often are a party to material litigation and also are subject to legal and regulatory claims, assertions, actions, reviews, audits, inquiries and investigations. Increased scrutiny in the current regulatory environment could lead to new regulations and practices, new interpretations of existing regulations, as well as additional regulatory proceedings. Additional lawsuits, legal

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and regulatory proceedings and other matters may arise in the future. The outcome of existing and future legal and regulatory proceedings and other matters could result in adverse judgments, settlements, fines, injunctions, restitutions or other relief which could require significant expenditures or have a material adverse effect on our business prospects, results of operations and financial condition. See “Item 3. Legal Proceedings.”

Legislation and administrative and regulatory changes and interpretations could impact our businesses.

Our businesses are subject to and may be impacted by many federal and state lending, insurance and consumer laws and regulations and may be affected by changes in these laws and regulations or the way they are interpreted or applied. In particular, our businesses may be significantly impacted by the following:

- legislation, administrative or regulatory action impacting the charters or business practices of the GSEs;
- reform of the U.S. housing finance system;
- legislation and regulation impacting the FHA and its competitive position versus private mortgage insurers;
- state insurance laws and regulations that address, among other items, licensing of companies to transact business, claims handling, reinsurance requirements, premium rates, policy forms offered to customers and requirements for Risk-to-capital, minimum policyholder positions, reserves (including contingency reserves), surplus, reinsurance and payment of dividends;
- the application of state, federal or private sector programs aimed at supporting borrowers and the housing market;
- the application of RESPA, the FCRA and other laws to our businesses;
- the interpretation and application of the TRID rules requiring enhanced disclosures to consumers in connection with the origination of residential mortgage loans;
- new federal standards and oversight for mortgage insurers, including as a result of the recommendation of the Federal Insurance Office of the U.S. Treasury that federal standards and oversight for mortgage insurers be developed and implemented;
- the implementation of new regulations under, or the potential repeal or amendment of provisions of, the Dodd-Frank Act, including changes in the QM Rule; and
- the implementation in the U.S. of the Basel III capital adequacy guidelines.

See “Item 1. Business—Regulation.”

Any of the items discussed above could adversely affect our results of operations, financial condition and business prospects. In addition, our businesses could be impacted by new legislation or regulations, as well as changes to existing legislation or regulations or the way they are interpreted or applied, that are not currently contemplated and which could occur at any time.

The implementation of the Basel III guidelines may discourage the use of mortgage insurance.

Over the past few decades, the Basel Committee has established international benchmarks for assessing banks’ capital adequacy requirements (“Basel III”). Included within those benchmarks are capital standards related to residential lending and securitization activity and importantly for private mortgage insurers, the capital treatment of mortgage insurance on those loans. These benchmarks are then interpreted and implemented via rulemaking by U.S. banking regulators. In July 2013, the U.S. banking regulators promulgated regulations, referred to as the “U.S. Basel III Rules,” to implement significant elements of the Basel framework. The U.S. Basel III Rules, among other things, revise and enhance the U.S. banking agencies’ general risk-based capital rules. Today, the U.S. Basel III Rules assign a 20%, 50% or 100% risk weight to loans secured by one-to-four-family residential properties. Generally, under the U.S. Basel III Rules in place today, the explicit government guarantees (FHA/VA/USDA) receive a 0% risk weight, and Fannie Mae and Freddie Mac related loans receive a 20% risk weight. Non-government related mortgage exposures secured by a first lien on a one-to-four family residential property that are prudently underwritten and that are performing according to their original terms receive a 50% risk weighting. All other one-to-four family residential mortgage loans are assigned a 100% risk weight.

In December 2014, the Basel Committee issued a proposal for further revisions to Basel III. It proposed adjustments to the risk weights for residential mortgage exposures that take into account LTV ratio and the borrower’s ability to

service a mortgage, which were not previously addressed by Basel III. The proposed LTV ratio did not take into consideration any credit enhancement, including private mortgage insurance, but in March 2015, the U.S. banking regulators clarified that for purposes of the U.S. Basel III Rules, calculation of LTV ratios can account for credit enhancement such as private mortgage insurance in

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determining whether a loan is made in accordance with prudent underwriting standards for purposes of receiving the preferred 50% risk weight. The comment period for this proposal closed in March 2015, and in December 2015, the Basel Committee released a second proposal, referred to as the 2015 Basel Committee Proposal, which retained the LTV provisions of the initial draft, but not the provisions pertaining to a borrower's ability to service a mortgage. The comment period for the 2015 Basel Committee Proposal closed in March 2016. To date, federal regulators have not adopted or implemented any new regulations, including based on these proposals, that update or modify the U.S. Basel III Rules.

The revised and final recommendations from the Basel Committee with respect to Basel III, referred to as the 2017 Basel Committee III Recommendations, were published in December 2017, and finalized risk weighting guidelines for residential mortgage exposures. These rules recognize guarantees provided by sovereign governments (such as FHA, VA, USDA and Ginnie Mae) as off-setting the capital requirements, resulting in a 0% risk weight. While the 2017 Basel Committee III Recommendations include consideration of LTV ratios, including the impact of credit enhancement provided by third-party private mortgage insurance and the GSEs on LTV ratios, the credit enhancement provided by third-party private mortgage insurance and the GSEs would have higher risk weightings than the explicitly government guaranteed products, putting loans insured by private mortgage insurance at a disadvantage. It remains unclear whether new guidelines will be proposed or finalized in the U.S. in response to the most recent 2017 Basel III Committee Recommendations.

If the federal regulators decide to change the current U.S. Basel III Rules in response to the final 2017 Basel III Committee Recommendations in ways that increase the capital requirements of banking organizations with respect to the residential mortgages we insure or that are guaranteed by the GSEs, demand for our mortgage insurance could be negatively impacted, which could adversely affect our business and business prospects.

We rely on our management team and our business could be harmed if we are unable to retain qualified personnel or successfully develop and/or recruit their replacements.

Our success depends, in part, on the skills, working relationships and continued services of our management team and other key personnel, any of whom could terminate his or her relationship with us at any time. The unexpected departure of key personnel could adversely affect the conduct of our business. In such event, we would be required to obtain other personnel to manage and operate our business. In addition, we will be required to replace the knowledge and expertise of our workforce as our workers retire. In either case, there can be no assurance that we would be able to develop or recruit suitable replacements for the departing individuals, that replacements could be hired, if necessary, on terms that are favorable to us, or that we can successfully transition such replacements in a timely manner. Failure to effectively implement our succession planning efforts and to ensure effective transfers of knowledge and smooth transitions involving members of our management team and other key personnel could adversely affect our business and results of operations. Without a properly skilled and experienced workforce, our costs, including costs associated with a loss of productivity and costs to replace employees may increase, and this could negatively impact our earnings.

We may make investments to grow our existing businesses, pursue new lines of business or new business initiatives, acquire other companies or engage in other strategic initiatives, each of which may result in additional risks and uncertainties.

In support of our growth strategy, we may make strategic investments, acquisitions or pursue other strategic initiatives that expose us to additional risks and uncertainties that include, without limitation:

- the use of capital and potential diversion of other resources, such as the diversion of management's attention from our core businesses and potential disruption of those businesses;
- the assumption of liabilities in connection with any strategic investment, including any acquired business;
- our ability to comply with additional regulatory requirements associated with new products, services, lines of business, or other business or strategic initiatives;
- our ability to successfully integrate or develop the operations of any new business initiative or acquisition;
-

the possibility that we may fail to realize the anticipated benefits of an acquisition or other strategic investment or initiative, including expected synergies, cost savings, or sales or growth opportunities, within the anticipated timeframe or at all; and

the possibility that we may fail to achieve forecasted results for a strategic investment, acquisition or other initiative that could result in lower or negative earnings contribution and/or impairment charges associated with intangible assets acquired.

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Part 1 Item 1A. Risk Factors

We face risks associated with our Services business.

We expanded our business to include our Services segment through our 2014 acquisition of Clayton and our subsequent acquisitions of Red Bell, ValuAmerica, EnTitle Direct, Independent Settlement Services and the assets of Five Bridges. Our Services business exposes us to certain risks that may negatively affect our results of operations and financial condition, including, among others, the following:

Our Services revenue is dependent on a limited number of large customers that represent a significant proportion of our Services total revenues. The loss or reduction of business from one or more of these significant customers could adversely affect our revenues and results of operations. In addition, Radian Guaranty does business with many of these significant customers. In the event of a dispute between a significant customer and either of our business segments, the overall customer relationship for Radian could be negatively impacted.

While Clayton is not a defendant in litigation arising out of the financial crisis involving the issuance of RMBS in connection with which it has provided services, it has in the past, and may again in the future, receive subpoenas from various parties to provide documents and information related to such litigation, and there can be no assurance that Clayton will not be subject to future claims against it, whether in connection with such litigation or otherwise. It is possible that our exposure to potential liabilities resulting from our Services business, some of which may be material or unknown, could exceed amounts we can recover through indemnification claims.

A significant portion of our Services engagements are transactional in nature and may be performed in connection with securitizations, loan sales, loan purchases or other transactions. Due to the transactional nature of our business, our Services segment revenues are subject to fluctuation from period to period and are difficult to predict.

Sales of our mortgage, real estate and title services are influenced by the level of overall activity in the mortgage, real estate and mortgage finance markets generally, and are specifically dependent on the mortgage loan origination volumes of our customers which may fluctuate from period to period. If mortgage origination volumes decline we could experience less demand for our mortgage, real estate and title services.

Red Bell is a licensed real estate brokerage and provides real estate brokerage services in all 50 states and the District of Columbia. As a licensed real estate brokerage, Red Bell receives residential real estate information from various multiple listing services (“MLS”). Red Bell receives this information, which it uses in its business to broker real estate transactions and provide valuation products and services, pursuant to the terms of agreements with the MLS providers. If these agreements were to terminate or Red Bell otherwise were to lose access to this information, it could negatively impact Red Bell’s ability to conduct its business.

By their nature, title claims are often complex, vary greatly in dollar amounts and are affected by economic and market conditions and the legal environment existing at the time of settlement of the claims. Estimating future title loss payments is difficult because of the complex nature of title claims, the long periods of time over which claims are paid, significantly varying dollar amounts of individual claims and other factors. From time to time, we could experience large losses or an overall worsening of our loss payment experience in regard to the frequency or severity of claims that require us to record additional charges to our claims loss reserve. These loss events are unpredictable and could adversely affect the financial performance of our Services business.

Item 1B. Unresolved Staff Comments.

None.

Item 2. Properties.

At our corporate headquarters, located at 1500 Market Street, West Tower, in Philadelphia, Pennsylvania we currently lease approximately 174,000 square feet of office and storage space.

In connection with our mortgage insurance operations, we lease office space in: Worthington, Ohio; Dayton, Ohio; Plano, Texas; St. Louis, Missouri; and New York. In addition, we lease office space for our Services operations in various cities in California, Connecticut, Colorado, Florida, Maryland, Ohio, Pennsylvania, Texas and Utah.

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We currently have two co-location agreements with TierPoint that support data center space and services at their Norristown, Pennsylvania and Philadelphia, Pennsylvania locations. These agreements expire in March 2020.

TierPoint serves as a production and disaster recovery location.

We believe our existing properties are well utilized, suitable and adequate for our present circumstances.

Item 3. Legal Proceedings.

We are routinely involved in a number of legal and regulatory claims, assertions, actions, reviews, audits, inquiries and investigations by various regulatory entities involving compliance with laws or other regulations, the outcome of which are uncertain. These legal proceedings could result in adverse judgments, settlements, fines, injunctions, restitutions or other relief that could require significant expenditures or have other effects on our business. In accordance with applicable accounting standards and guidance, we establish accruals only when we determine both that it is probable that a loss has been incurred and the amount of the loss is reasonably estimable. We accrue the amount that represents our best estimate of the probable loss; however, if we can only determine a range of estimated losses, we accrue an amount within the range that, in our judgment, reflects the most likely outcome, and if none of the estimates within the range is more likely, we accrue the minimum amount of the range.

In the course of our regular review of pending legal and regulatory matters, we determine whether it is reasonably possible that a potential loss may have a material impact on our liquidity, results of operations or financial condition. If we determine such a loss is reasonably possible, we disclose information relating to such potential loss, including an estimate or range of loss or a statement that such an estimate cannot be made. On a quarterly basis, we review relevant information with respect to loss contingencies and update our accruals, disclosures and estimates of reasonably possible losses or range of losses based on such reviews. We are often unable to estimate the possible loss or range of loss until developments in such matters have provided sufficient information to support an assessment of the range of possible loss, such as quantification of a damage demand from plaintiffs, discovery from other parties and investigation of factual allegations, rulings by the court on motions or appeals, analysis by experts, and the progress of settlement negotiations. In addition, we generally make no disclosures for loss contingencies that are determined to be remote. For matters for which we disclose an estimated loss, the disclosed estimate reflects the reasonably possible loss or range of loss in excess of the amount accrued, if any.

Loss estimates are inherently subjective, based on currently available information, and are subject to management's judgment and various assumptions. Due to the inherently subjective nature of these estimates and the uncertainty and unpredictability surrounding the outcome of legal and other proceedings, actual results may differ materially from any amounts that have been accrued.

As previously disclosed, we contested adjustments resulting from the examination by the IRS of our 2000 through 2007 consolidated federal income tax returns. The IRS opposed the recognition of certain tax losses and deductions that were generated through our investment in a portfolio of non-economic REMIC residual interests and proposed denying the associated tax benefits of these items. In July 2018, we finalized a settlement with the IRS related to the adjustments we had been contesting. This settlement with the IRS resolved the issues and concluded all disputes related to the IRS Matter. In 2018, under the terms of the settlement, Radian utilized its "qualified deposits" with the U.S. Treasury to settle its \$31 million obligation to the IRS, and in 2019, the Company expects the IRS to refund to Radian the remaining \$58 million that was previously on deposit.

On December 22, 2016, Ocwen Loan Servicing, LLC and Homeward Residential, Inc. (collectively, "Ocwen") filed a complaint in the U.S. District Court for the Eastern District of Pennsylvania against Radian Guaranty (the "Complaint") alleging breach of contract and bad faith claims and seeking monetary damages and declaratory relief. Ocwen has also initiated similar legal proceedings against several other mortgage insurers. On December 17, 2016, Ocwen separately filed a parallel arbitration petition against Radian Guaranty before the American Arbitration Association ("AAA") asserting substantially the same allegations (the "Arbitration"). Ocwen's filings together listed 9,420 mortgage insurance certificates issued under multiple insurance policies, including Pool Insurance policies, as subject to the dispute. On June 5, 2017, Ocwen filed an amended complaint and an amended petition (collectively, the "Amended Filings") with both the court and the AAA, respectively, together listing 8,870 certificates as subject to the dispute. On April 11,

2018, the parties entered into a confidential agreement with respect to all certificates subject to the dispute. The confidential agreement resolved certain categories of claims involved in the dispute and, on April 12, 2018, the parties filed a stipulation of voluntary dismissal of the federal court proceeding and the trial judge issued an Order dismissing all claims and counterclaims subject to the parties' agreement. Radian Guaranty was not required to make any payment in connection with this confidential agreement. Pursuant to the confidential agreement, the parties: (1) dismissed the federal court proceeding; (2) narrowed the scope of the dispute to Ocwen's breach of contract claims seeking payment of insurance benefits on approximately 2,500 certificates that Ocwen was previously pursuing through the

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Part I Item 3. Legal Proceedings

Amended Filings; and (3) agreed to resolve the remaining dispute through the Arbitration. Radian Guaranty believes that Ocwen's allegations and claims in the legal proceedings described above are without merit and legally deficient, and plans to defend these claims vigorously. We are not able to estimate a reasonably possible loss, if any, or range of loss in this matter because of the current preliminary stage of the Arbitration.

On August 31, 2018, Nationstar Mortgage LLC d/b/a Mr. Cooper ("Nationstar") filed a complaint in the U.S. District Court for the Eastern District of Pennsylvania against Radian Guaranty (the "Complaint") alleging breach of contract, bad faith, and unjust enrichment claims and seeking monetary damages and declaratory relief. The Complaint lists 3,014 mortgage insurance certificates issued under multiple insurance policies as subject to disputes involving insurance coverage decisions. The Complaint further lists 2,231 mortgage insurance certificates issued under multiple insurance policies as subject to disputes involving premium refund requests. Radian Guaranty believes that Nationstar's allegations and claims in the legal proceedings described above are without merit and legally deficient, and plans to defend these claims vigorously. We are not able to estimate a reasonably possible loss, if any, or range of loss in this matter because of the preliminary stage of the litigation.

We also are periodically subject to reviews and audits, as well as inquiries, information-gathering requests and investigations. In connection with these matters, from time to time we receive requests and subpoenas seeking information and documents related to aspects of our business. In March 2017, Green River Capital received a letter from the staff of the SEC stating that it is conducting an investigation captioned, "In the Matter of Certain Single Family Rental Securitizations," and that it is requesting information from market participants. The letter requested that Green River Capital provide information regarding broker price opinions that Green River Capital provided on properties included in single family rental securitization transactions. In February 2019, we were advised by the SEC staff that the investigation has been closed.

The legal and regulatory matters discussed above could result in adverse judgments, settlements, fines, injunctions, restitutions or other relief that could require significant expenditures or have other effects on our business.

Management believes, based on current knowledge and after consultation with counsel, that the outcome of such actions will not have a material adverse effect on our consolidated financial condition. However, the outcome of litigation and other legal and regulatory matters and proceedings is inherently uncertain, and it is possible that one or more of the matters currently pending or threatened could have an unanticipated adverse effect on our liquidity, financial condition or results of operations for any particular period.

Item 4. Mine Safety Disclosures.

Not applicable.

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Our common stock is listed on the New York Stock Exchange (“NYSE”) under the symbol “RDN.” At February 25, 2019, there were 213,657,506 shares of our common stock outstanding and 49 holders of record.

In 2018 and 2017, we declared quarterly cash dividends on our common stock equal to \$0.0025 per share. We presently expect to continue to declare a regular quarterly dividend on our common stock. For information on Radian Group’s ability to pay dividends, see “Item 7. Management’s Discussion and Analysis of Financial Condition and Results of Operations—Liquidity and Capital Resources.”

Reference is made to the information in Item 12 of this report under the caption “Equity Compensation Plans,” which is incorporated herein by this reference.

Issuance of Unregistered Securities

On March 21, 2016, March 22, 2016 and March 24, 2016, we issued 11,914,620; 4,673,478 and 393,690 shares of Radian Group common stock, respectively, in separately negotiated transactions with certain holders of the Convertible Senior Notes due 2017 and 2019. These issuances were made in connection with, and as partial consideration for, the purchases of aggregate principal amounts of \$30.1 million and \$288.4 million of our Convertible Senior Notes due 2017 and 2019, respectively, for cash or a combination of cash and shares of Radian Group common stock.

In all cases, the shares were issued to “qualified institutional buyers” within the meaning of Rule 144A promulgated under the Securities Act and were offered and sold in reliance on the exemption from registration afforded by Section 4(a)(2) of the Securities Act and corresponding provisions of state securities laws. See Notes 12 and 15 of Notes to Consolidated Financial Statements for additional information on the individual transactions.

Issuer Purchases of Equity Securities

The following table provides information about purchases of Radian Group common stock by us (and our affiliated purchasers) during the three months ended December 31, 2018.

Issuer Purchases of Equity Securities

(\$ in thousands, except per-share amounts)

<u>Period</u>	<u>Total Number of Shares Purchased (1)</u>	<u>Average Price Paid per Share</u>	<u>Total Number of Shares Purchased as Part of Publicly Announced Plans or Programs</u>	<u>Approximate Dollar Value of Shares That May Be Purchased Under the Plans or Programs (2)</u>
Share repurchase program				
10/1/2018 to 10/31/2018	—	\$—	—	\$ 100,000
11/1/2018 to 11/30/2018	2,329	\$19.30	—	\$ 100,000
12/1/2018 to 12/31/2018	11,792	\$15.19	—	\$ 100,000
Total	14,121		—	

(1) Represents shares tendered by employees as payment of taxes withheld on the vesting of certain restricted stock awards granted under the Company’s equity compensation plans.

(2) On August 16, 2018, Radian Group’s board of directors approved a new share repurchase program that authorizes the Company to repurchase up to \$100 million of its common stock. As of December 31, 2018, the full purchase authority of up to \$100 million remained available under this program, which expires on July 31, 2019. See Note 15 of Notes to Consolidated Financial Statements for additional information.

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The information in the following table should be read in conjunction with our Consolidated Financial Statements and Notes thereto included in Item 8 and the information included in Item 7. “Management’s Discussion and Analysis of Financial Condition and Results of Operations.”

(In millions, except per-share amounts and ratios)**Consolidated Statements of Operations**

	2018	2017	2016	2015	2014
Net premiums earned—insurance	\$1,014.0	\$932.8	\$921.8	\$915.9	\$844.5
Services revenue (1)	145.0	155.1	168.9	157.2	78.0
Net investment income	152.5	127.2	113.5	81.5	65.7
Net gains (losses) on investments and other financial instruments	(42.5)	3.6	30.8	35.7	80.0
Total revenues	1,273.0	1,221.6	1,238.5	1,193.3	1,072.7
Provision for losses	104.6	135.2	202.8	198.6	246.1
Cost of services (1)	98.1	104.6	114.2	93.7	44.7
Other operating expenses	280.8	267.3	244.9	242.4	251.2
Restructuring and other exit costs	6.1	17.3	—	—	—
Interest expense	61.5	62.8	81.1	91.1	90.5
Impairment of goodwill	—	184.4	—	—	—
Amortization and impairment of acquired intangible assets	12.4	27.7	13.2	13.0	8.6
Pretax income from continuing operations	684.2	346.7	483.7	437.8	407.2
Income tax provision (benefit)	78.2	225.6	175.4	156.3	(852.4)
Net income from continuing operations	606.0	121.1	308.3	281.5	1,259.6
Income (loss) from discontinued operations, net of tax (2)	—	—	—	5.4	(300.1)
Net income	606.0	121.1	308.3	286.9	959.5
Diluted net income per share from continuing operations (3)	\$2.77	\$0.55	\$1.37	\$1.20	\$5.44
Diluted net income per share (3)	\$2.77	\$0.55	\$1.37	\$1.22	\$4.16
Cash dividends declared per share	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01
Weighted average shares outstanding-diluted (3)	218.6	220.4	229.3	246.3	233.9

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<u>(In millions, except per-share amounts and ratios)</u>	2018	2017	2016	2015	2014	
Consolidated Balance Sheets						
Total investments	\$5,153.0	\$4,643.9	\$4,462.4	\$4,298.7	\$3,629.3	
Assets held for sale (2)	—	—	—	—	1,736.4	
Total assets	6,314.7	5,900.9	5,863.2	5,642.1	6,842.3	
Unearned premiums	739.4	723.9	681.2	680.3	644.5	
Reserve for losses and LAE	401.4	507.6	760.3	976.4	1,560.0	
Senior notes (4)	1,030.3	1,027.1	1,069.5	1,219.5	1,192.3	
Liabilities held for sale (2)	—	—	—	—	947.0	
Stockholders' equity	3,488.7	3,000.0	2,872.3	2,496.9	2,097.1	
Book value per share	\$16.34	\$13.90	\$13.39	\$12.07	\$10.98	
Selected Ratios—Mortgage Insurance						
Loss ratio (5)	10.4	% 14.6	% 22.2	% 21.7	% 29.1	%
Expense ratio—net premiums earned basis (5)	23.9	% 24.7	% 22.7	% 23.7	% 28.2	%
Risk-to-capital-Radian Guaranty only	13.9	:1 12.8	:1 13.5	:1 14.3:1	17.9:1	
Risk-to-capital-Mortgage Insurance combined	12.8	:1 12.1	:1 13.6	:1 14.6:1	20.3:1	
Other Data—Mortgage Insurance						
Primary NIW	\$56,547	\$53,905	\$50,530	\$41,411	\$37,349	
Direct primary IIF	221,443	200,724	183,450	175,584	171,810	
Direct primary RIF	56,728	51,288	46,741	44,627	43,239	
Persistency Rate (12 months ended) (6)	83.1	% 81.1	% 76.7	% 78.8	% 84.2	%
Persistency (quarterly, annualized) (6)	85.5	% 79.4	% 76.8	% 81.8	% 83.3	%

(1) Primarily represents the activity of Clayton, acquired June 30, 2014.

Radian completed the sale of its former financial guaranty subsidiary, Radian Asset Assurance, to Assured on April 1, 2015, pursuant to the Radian Asset Assurance Stock Purchase Agreement. Until the April 1, 2015 sale date, the operating results of Radian Asset Assurance were classified as discontinued operations for all periods presented in our consolidated statements of operations.

(2) Diluted net income per share and average share information calculated in accordance with the accounting standard regarding earnings per share. See Note 3 of Notes to Consolidated Financial Statements.

(3) Includes Senior Notes and Convertible Senior Notes.

Calculated using amounts determined under GAAP, using provision for losses to calculate the loss ratio and policy acquisition costs and other operating expenses to calculate the expense ratio, as percentages of net premiums earned—insurance.

Based on loan level detail for the fourth quarter of each year shown. The Persistency Rate on a quarterly, annualized basis may be impacted by seasonality or other factors, and may not be indicative of full-year trends. In Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations, see "Key Factors Affecting Our Results—Mortgage Insurance—IIF; Persistency Rate; Mix of Business" and "Results of Operations—Mortgage Insurance—NIW, IIF, RIF" for additional information about the Persistency Rate.

Table of ContentsGlossary**Item 7. Management’s Discussion and Analysis of Financial Condition and Results of Operations.**

The following analysis of our financial condition and results of operations should be read in conjunction with our Consolidated Financial Statements and Notes thereto included in Item 8. Certain terms and acronyms used throughout this report are defined in the Glossary of Abbreviations and Acronyms included as part of this report. Some of the information included in this discussion and analysis or included elsewhere in this report, including with respect to our projections, plans and our strategy for our business, includes forward-looking statements that involve risks, uncertainties and assumptions. Our actual results and the timing of events could differ materially from those anticipated by these forward-looking statements as a result of many factors, including those discussed under “Cautionary Note Regarding Forward-Looking Statements—Safe Harbor Provisions” and in the Risk Factors detailed in Item 1A of this Annual Report on Form 10-K.

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Overview

We are a diversified mortgage and real estate services business with two business segments—Mortgage Insurance and Services. Our Mortgage Insurance segment provides credit-related insurance coverage, principally through private mortgage insurance, as well as other credit risk management solutions, to mortgage lending institutions and mortgage credit investors. We provide our mortgage insurance products and services mainly through our wholly-owned subsidiary, Radian Guaranty. Our Services segment is primarily a fee-for-service business that offers a broad array of mortgage, real estate and title services to market participants across the mortgage and real estate value chain, as further detailed in “Results of Operations—Services.” These services, comprising mortgage services, real estate services and title services, are provided primarily through our subsidiaries, including Clayton, Green River Capital, Radian Settlement Services and Red Bell. In 2018, we also acquired the businesses of Entitle Direct and Independent Settlement Services, as well as the assets of Five Bridges, to enhance our Services offerings. Of the combined total of our net premiums earned and services revenue for the years ended December 31, 2018, 2017 and 2016, our Services segment provided 13%, 15% and 16%, respectively.

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Part II Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations

(1) Includes net premiums earned and services revenue on a segment basis, and excludes net investment income, net gain on investments and other financial instruments and other income.

Operating Environment

As a seller of mortgage credit protection and mortgage and other credit risk management solutions, as well as a provider of mortgage, real estate and title services, our results are subject to macroeconomic conditions and other events that impact the housing finance and real estate markets, including events that specifically impact the mortgage origination environment, the credit performance of our underlying insured assets and our future business opportunities.

Recently, mortgage originations for home purchases have increased and become a larger proportion of total mortgage originations, as refinancing activity has declined due to rising interest rates. During 2017 and 2018, we have benefited from this trend because mortgage insurance penetration in the insurable mortgage market is generally three to five times higher for purchase originations than for refinancings. Additionally, mortgage insurance penetration on purchase transactions has gradually increased over the past few years. The increase in home purchase transactions and the higher mortgage insurance penetration for purchase originations resulted in a larger mortgage insurance market in 2018 as compared to 2017.

Mortgage Market Credit Characteristics. Loans originated for the private mortgage insurance market since 2008 consist primarily of high credit quality loans with significantly better credit performance than the loans originated during 2008 and prior periods. Significant contributors to the improved loan quality include the greater risk discipline of loan originators and the private mortgage insurance providers, the Qualified Mortgage (QM) loan requirements under the Dodd Frank Act, including the GSE safe harbor, and the loan-level criteria of the PMIERS financial requirements.

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- (1) For the PMIERS, in circumstances where there is more than one borrower, the lowest of the borrowers' FICO scores is used.
- (2) Seasoning factors are designed to adjust claim rate estimates for an expected loss pattern based on origination vintage.

Following the 2007-2008 financial crisis, the more restrictive credit environment resulted in an overall improvement in credit quality. More recently, with access to credit expanding and purchase volume becoming a larger proportion of total originations compared to refinancings, Radian Guaranty and the rest of the private mortgage insurance industry have been experiencing a shift in the mix of mortgage lending products toward higher LTVs and higher debt-to-income ratios. In part, this is because in general, borrowers who purchase a home with mortgage insurance tend to have higher LTVs than borrowers who refinance with mortgage insurance. Additional factors contributing to the increase in the industry's NIW on mortgage loans with LTVs greater than 95% include: (i) GSE program enhancements and guideline changes, including Fannie Mae's HomeReady program and Freddie Mac's Home Possible and Home Possible Advantage programs, which are designed to make home ownership more affordable for low- to moderate-income borrowers and (ii) recent lender response to market demands, particularly in light of increasing demand from first-time home buyers. As a result of these factors, home purchases by first-time home buyers, who traditionally require mortgage loans with higher LTVs and may have higher debt-to-income ratios, continue to be an increasingly significant portion of the total market. Further, due in part to changes in GSE guidelines that increased acceptable debt-to-income limits, beginning in late 2017, the private mortgage industry observed a material increase in the volume of loans to borrowers with debt-to-income ratios greater than 45%, and Radian Guaranty imposed certain credit overlays and pricing changes to address this trend. These higher levels have continued during 2018. We believe that these trends toward higher LTVs and debt-to-income ratios have not materially impacted the overall credit quality of our portfolio. See "Results of Operations—Mortgage Insurance—*NIW, IIF, RIF*" for additional information regarding our portfolio mix and the mortgage industry.

Hurricanes. We insure mortgages for homes in areas that have been or in the future may be impacted by natural disasters such as hurricanes, floods and wildfires, including Hurricanes Harvey and Irma in 2017 and Hurricanes Florence and Michael in 2018. Although the number of incremental defaults associated with areas that have been impacted by recent natural disasters, including the hurricanes in 2017 and 2018, became somewhat elevated, consistent with our past experience, these incremental defaults did not result in a material increase in our incurred losses or paid claims, given the limitations on our coverage related

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to property damage. However, the future reserve impact of incremental defaults from these or other natural disasters may differ from our previous experience due to overall economic conditions, the pace of economic recovery in the affected areas or other factors. See Note 11 of Notes to Consolidated Financial Statements. See "Results of Operations—Mortgage Insurance—*NIW, IIF, RIF*—*Provision for Losses*" for more information on defaults. See "Liquidity and Capital Resources—*Radian Group*—*Short-Term Liquidity Needs*—*Capital Support for Subsidiaries*" for additional information on the impact of increased defaults on our PMIERS Minimum Required Assets.

PMIERS. In order to be eligible to insure loans purchased by the GSEs, mortgage insurers such as Radian Guaranty must meet the GSEs' eligibility requirements, or PMIERS. Radian Guaranty currently is an approved mortgage insurer under the PMIERS and is in compliance with the PMIERS financial requirements. The GSEs have significant discretion under the PMIERS and may amend the PMIERS at any time. On September 27, 2018, the GSEs issued PMIERS 2.0, which will become effective on March 31, 2019. Based on Radian's financial position at December 31, 2018, Radian expects to comply with PMIERS 2.0 and maintain a significant excess of Available Assets over Minimum Required Assets as of the effective date. See "Item 1. Business—Regulation—GSE Requirements," "Liquidity and Capital Resources—*Radian Group*—*Short-Term Liquidity Needs*" and Note 1 of Notes to Consolidated Financial Statements for additional information.

Tax Cuts and Jobs Act. On December 22, 2017, the TCJA was signed into law, significantly changing the U.S. tax system. It included, among other items, the following provisions that impacted Radian:

- Reduction of net deferred tax assets of \$102.6 million at December 31, 2017, due to the lower statutory tax rate resulting in an increased tax provision;

- Significant reduction in our annualized effective tax rate and future cash tax payments due to the reduction in the statutory federal tax rate from 35% to 21% (excluding the impact of Discrete Items), effective January 1, 2018;

- ▲ A material reduction in cash tax payments in 2018 due to the repeal of the corporate alternative minimum tax;

- Reduced deductibility of certain executive compensation; and

- Potential impacts of state tax changes that could be prompted in response to the TCJA.

For periods beginning January 1, 2018, the TCJA had a significant favorable impact on our net income, diluted earnings per share and cash flows, primarily due to the reduction in the federal corporate tax rate. The TCJA also significantly increased the economic value of our existing mortgage insurance portfolio as of December 31, 2017, due to the increase in expected future net cash flows from our IIF.

Services. The macroeconomic conditions and other events that impact the housing, mortgage finance and related real estate markets also affect the demand for our mortgage, real estate and title services offered through our Services business segment. As described in "—Key Factors Affecting our Results—*Services*," revenues for our Services segment are subject to fluctuations from period to period, in part due to the combination of the transactional nature of our business and the overall activity in the housing and mortgage finance markets.

Our mortgage services business is dependent on customer activity and general secondary market dynamics including volume, types of transactions, and scopes of review. For example, while non-GSE or "private label" securitization activity remains limited compared to the pre-financial crisis market, this market continued to expand in 2018 due to larger institutions re-entering the market, suggesting increased potential growth in 2019. Similarly, the single family rental market continued to experience strong demand in 2018, driven in part by early refinance activity in the rising interest rate environment, as well as a GSE program that drove volume, but was later suspended at the end of 2018. While regulatory demands on mortgage market participants continue to be significant following the financial crisis, regulatory enforcement actions on mortgage industry participants have been less frequent, reducing the demand for our servicing quality control services as target customers form alternative strategies on how best to manage risk in the current and projected environment.

Radian's real estate services consist primarily of home property valuation services, which include appraisals, broker price opinions and automated valuations, and REO services that include property preservation and software as a service ("SaaS") technology products. These products and services are fundamentally volume driven and therefore

sensitive to variances in macro level home sales, home price appreciation, interest rates, home default rates and GSE guidelines. Since the financial crisis, REO inventory levels continue to decline due to lower delinquencies and foreclosure activity, reducing demand for our REO asset management services. Further, as alternatives for managing costs have become more critical to the overall value proposition for market participants, we have observed increasing market trends toward the use of non-appraisal valuation alternatives, which we expect will continue to grow.

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Radian's title services comprise a suite of title, closing and settlement services for residential mortgage loans, including our recent entry into the title insurance business with the acquisition of Entitle Insurance in 2018. General marketplace competition in the real estate title industry, coupled with housing and mortgage banking related conditions such as new home sales, the sizes of the real estate purchase and refinance markets and interest rate fluctuations, could limit or create volatility in the timing and amount of potential revenue growth of this business. See Notes 4 and 7 of Notes to Consolidated Financial Statements and "Item 1. Business—Services—Services Business Overview" for additional information regarding the Services segment.

Competition and Pricing

Competitive Environment. In our mortgage insurance business, our primary competitors include other private mortgage insurers and governmental agencies, principally the FHA and the VA. We currently compete with other private mortgage insurers on the basis of price, underwriting guidelines, overall service, customer relationships, perceived financial strength (including based on comparative financial strength credit ratings) and reputation, as well as the breadth and quality of the services offered through our Services business that complement our mortgage insurance products. We compete with the FHA and VA, primarily on the basis of loan limits, pricing, credit guidelines, terms of our insurance policies and loss mitigation practices. For additional information, see "Item 1. Business—Mortgage Insurance—Competition."

Pricing is highly competitive in the mortgage insurance industry, with industry participants competing for market share and customer relationships. As a result of this competitive environment, recent industry pricing trends have included: (i) increases in the use of a spectrum of filed rates to allow for pricing based on more granular loan, borrower and property attributes, including granular pricing through the use of a "Black Box" framework, as further discussed below; (ii) the use of customized rates (often discounted from our published rate cards), including in response to requests for pricing bids by certain lenders; and (iii) other pricing changes that include, among other things, reductions in published rates.

The mortgage insurance industry is migrating away from a predominantly rate-card-based pricing model, to one where a variety of pricing methodologies are being deployed with differing degrees of risk-based granularity, which may also lead to an increase in the frequency of pricing changes. By the end of 2018 all private mortgage insurers, including Radian, were either piloting or had broadly launched a "Black Box" framework. Currently, these frameworks continue to leverage the same general risk attributes as mortgage insurance pricing historically, and incorporate more granular risk-based pricing factors. Radian's proprietary "Black Box" framework, RADAR Rates, became broadly available to customers in January 2019. See "Item 1. Business—Mortgage Insurance—Mortgage Insurance Business Overview—Premium Rates" above and "—Radian's Pricing," below.

As market conditions change, alternatives to traditional mortgage insurance may be introduced that compete with private mortgage insurance. In 2018, Freddie Mac and Fannie Mae announced the launch of limited pilot programs, Integrated Mortgage Insurance ("IMAGIN") and Enterprise-Paid Mortgage Insurance ("EPMI"), respectively, as alternative ways for lenders to sell loans with LTVs greater than 80% to the GSEs. These investor-paid mortgage insurance programs, in which insurance is acquired directly by each GSE, have many of the same features and represent an alternative to traditional private mortgage insurance products that are provided to individual lenders. Under the IMAGIN and EPMI programs, which are forward insurance arrangements (forward commitments to insure future loan originations), insurance is provided by a third party which, in turn, cedes the risk to a panel of reinsurers. The reinsurers participating in IMAGIN and EPMI are not subject to compliance with the PMIERS, which may create a competitive disadvantage for private mortgage insurers if these pilot programs are expanded.

In their current forms, these programs have not had a material impact on our financial performance or business prospects, in part due to the limited nature of the pilots and their current focus on lender-paid Single Premium Policies as well as the operational changes required for lenders to switch from traditional mortgage insurance execution to this new form of execution. The financial impact of these programs has been further mitigated as a result of the shift away from lender-paid singles and the increasing use of our borrower-paid Single Premium Policies. We believe there are

significant challenges to the long-term sustainability of the IMAGIN and EPMI programs, including for example that the IMAGIN structure relies on a reinsurance market that, in contrast to traditional mortgage insurance, may not be committed to serving the first-loss mortgage insurance market through various economic and credit cycles. However, if these pilot programs or other alternatives to traditional private mortgage insurance were to expand and become broadly accepted alternatives to traditional private mortgage insurance, they could reduce the demand for private mortgage insurance in its traditional form. See “Item 1A. Risk Factors—*Our mortgage insurance business faces intense competition.*”

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Radian's Pricing. As we continually evaluate our pricing based on many factors, we design our pricing strategies to grow the long-term economic value of our mortgage insurance portfolio and to align with our overall strategic objectives. During 2018, we made a number of pricing changes consistent with these objectives, including:

- implementing rate reductions on our borrower-paid Single Premium Policies in order to shift our NIW toward more profitable borrower-paid Single Premium Policies;
- increasing risk-based granularity of our pricing across most products, including the use of rate adjustors related to multi-borrower loans and loans with a debt-to-income ratio greater than 45%; and
- introducing our proprietary RADAR Rates, which became available to customers beginning in January 2019, subject to regulatory approval.

Our borrower-paid Single Premium Policies provide us with an increased return on required capital compared to lender-paid Single Premium Policies. Under the Homeowners Protection Act, most borrower-paid Single Premium Policies must be cancelled once the mortgage's scheduled LTV has declined to 78%. As a result of this automatic cancellation feature and other factors, over the life of the loans, the Minimum Required Assets under the PMIERS are lower than for lender-paid Single Premium Policies. In the nine months since we implemented our pricing strategy for borrower-paid Single Premium Policies, we successfully increased our NIW for borrower-paid Single Premium Policies from 5% of total NIW for the three-month period ended March 31, 2018 to 12% of total NIW for the three-month period ended December 31, 2018, and our NIW for lender-paid Single Premium Policies decreased from 16% to 5% for the same periods.

We currently employ proprietary risk and customer analytics, as well as a digital pricing delivery platform, to deliver loan level pricing electronically to our customers. In January 2019, we broadly introduced RADAR Rates as our newest pricing option that is powered by Radian's proprietary RADAR risk model and analyzes credit risk inputs to customize a rate quote to a borrower's individual risk profile, loan attributes and property characteristics. The granularity of our pricing is tailored to the business needs of our customers and their risk profiles. This framework represents a continuation of our strategy to consistently apply an approach to pricing that is customer-centric, flexible and customizable based on a lender's loan origination process, as well as balanced with our own objectives for managing the risk and return profile of our mortgage insurance portfolio. We expect that RADAR Rates, which leverages our proprietary risk model, will enhance our ability to continue to build a high quality mortgage insurance portfolio.

We target a blended return on required capital on new business on an unlevered basis (i.e., after-tax underwriting returns plus projected investment income) within the mid-teens range. This projected return incorporates the impact of our Single Premium QSR Program, as well as PMIERS 2.0, which will become effective on March 31, 2019, but does not include the impact of other factors, such as our Excess-of-Loss Program and leverage. See "*Operating Environment—PMIERS*," above. Our pricing actions are expected to gradually affect our results over time, as existing IIF cancels and is replaced with NIW at current pricing. As an example, assuming our current NIW levels, mix and persistency levels remain constant, we estimate that it would take approximately three years for approximately one-half of our IIF to reflect our current pricing structure. See "*Results of Operations—Mortgage Insurance—NIW, IIF, RIF*" for additional information.

Business Strategy

Radian is focused on a number of strategic objectives, as described in "Radian's Long-Term Strategic Objectives" in "Item 1. Business—General." In developing our strategies for our mortgage insurance business, we monitor various competitive and economic factors while seeking to increase the long-term value of our portfolio by balancing both profitability and volume considerations in developing our pricing and origination strategies. We take a strategic, risk-based approach to establishing our premium rates and writing a mix of business that we expect to grow the economic value of our mortgage insurance portfolio and produce our targeted level of returns on a blended basis, while providing an acceptable level of NIW. See "*Competition and Pricing—Radian's Pricing*," and "*Results of Operations—Mortgage Insurance—NIW, IIF, RIF*."

Our growth strategy includes leveraging our core expertise in mortgage credit risk management and expanding our presence in the mortgage finance industry, including by participating in certain credit risk transfer programs developed by the GSEs. As part of their initiative to distribute mortgage risk and increase the role of private capital in the mortgage market, Fannie Mae and Freddie Mac have established Front-end credit risk transfer programs that provide the GSEs with credit risk coverage on a Flow Basis that is incremental to primary mortgage insurance, as well as Back-end programs that provide the GSEs with credit risk coverage on existing pools of loans. Since 2016, we have participated in the Front-end programs and Back-end programs through Radian Reinsurance. Our participation in these programs is subject to pre-established credit parameters. Our total RIF under the Front-end and Back-end credit risk transfer programs was \$196.8 million at December 31, 2018 and \$100.4 million at December 31, 2017. We expect to continue to participate in these and other similar programs in the

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future, subject to availability and our evaluation of risk-adjusted returns. We will only experience claims under these Front-end and Back-end credit risk transfer transactions if the borrower's equity, any existing primary mortgage insurance (if applicable) and the GSEs' retained risk are depleted. The GSEs retain the first losses on these credit risk transfer transactions, ranging from 35 to 60 basis points. Generally, Radian would then be responsible to cover the next layer of losses, which ranges in size from approximately 225 to 325 basis points. In participating in these GSE transactions, we assume incremental risk (beyond that which we typically cover in our traditional mortgage insurance business) associated with the risk of defaults caused by physical damage, including natural disasters such as hurricanes and wildfires, which is not covered by the underlying primary mortgage insurance. We regularly evaluate this risk, including the geographic diversity of the loans included in these transactions and our remote risk position, in assessing our participation in these transactions.

We have been focused on repositioning our Services business by implementing our restructuring plan and using the mortgage, real estate and title services offered through our Services segment to complement our Mortgage Insurance business, as well as by investing in new products and services to innovate and provide integrated solutions for our clients. Our strategy is designed to satisfy demand in the market, grow our fee-based revenues, strengthen our existing customer relationships, attract new customers and differentiate us from other mortgage insurance companies.

Other 2018 Developments

Capital and Liquidity Actions. On August 9, 2017, Radian Group's board of directors authorized the Company to repurchase up to \$50 million of its common stock through July 31, 2018. We completed this program during the first half of 2018 by purchasing 3.0 million shares at an average price of \$16.56 per share, including commissions.

On August 16, 2018, Radian Group's board of directors approved a new share repurchase program that authorizes the Company to repurchase up to \$100 million of its common stock. As of December 31, 2018, the full purchase authority of up to \$100 million remained available under this program, which expires on July 31, 2019. See Note 15 of Notes to Consolidated Financial Statements for additional details on our share repurchase program.

Radian Group's liquidity increased as a result of Radian Guaranty's return of \$450 million in capital to Radian Group in December 2018, as approved by the Pennsylvania Insurance Department. This distribution of capital is part of our long-term capital plan, which is designed to improve our financial flexibility and capital position. A portion of the proceeds is expected to be used for the payment of \$159 million principal amount of our outstanding Senior Notes due 2019. See Note 12 of Notes to Consolidated Financial Statements.

Reinsurance. Radian's reinsurance programs represent a component of our long-term risk distribution strategy. From time to time, we have entered into reinsurance transactions as part of our strategy to manage our capital position and risk profile, which includes managing Radian Guaranty's capital position under the PMIERS financial requirements. We have recently expanded our risk distribution strategy in an effort to optimize the amounts and types of capital and risk distribution deployed against insured risk, including by accessing both the capital and the reinsurance markets to distribute risk. We expect the expansion of our risk distribution strategy to: (i) support our overall capital plans; (ii) lower our cost of capital; and (iii) reduce portfolio risk and financial volatility through economic cycles.

As part of our risk distribution strategy, in November 2018, Radian Guaranty entered into a fully collateralized reinsurance agreement with Eagle Re, an unaffiliated special purpose reinsurer domiciled in Bermuda. This reinsurance agreement provides for up to \$434.0 million of aggregate excess-of-loss reinsurance coverage for the applicable percentage of mortgage insurance losses on new defaults on an existing portfolio of eligible Monthly Premium Policies issued between January 1, 2017 and January 1, 2018, with an initial RIF of \$9.1 billion. Eagle Re financed its coverage by issuing mortgage insurance-linked notes. In addition, Radian Guaranty entered into a separate excess-of-loss reinsurance agreement for up to \$21.4 million of coverage, representing a pro rata share of the credit risk alongside the risk assumed by Eagle Re on those Monthly Premium Policies. These two reinsurance agreements reduced net RIF and PMIERS Minimum Required Assets by a total of \$455.4 million, thus reducing the capital required to be held at Radian Guaranty and supporting Radian Guaranty's \$450 million return of capital to Radian Group in December 2018. For additional information about our reinsurance see Note 8 in Notes to Consolidated

Financial Statements and “Results of Operations—Mortgage Insurance—*Net Premiums Written and Earned.*” See “Liquidity and Capital Resources—*Radian Group—Short-Term Liquidity Needs*” for additional information on the PMIERS.

IRS Matter. Radian finalized a settlement with the IRS which resolved the issues and concluded all disputes related to the IRS Matter. During the second quarter of 2018, we recorded tax benefits of \$73.6 million, which includes both the impact of the settlement with the IRS as well as the reversal of certain previously accrued state and local tax liabilities. In 2018, under the terms of the settlement, Radian utilized its “qualified deposits” with the U.S. Treasury to settle its \$31 million obligation to the IRS, and in 2019, the Company expects the IRS to refund to Radian the remaining \$58 million that was previously on

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deposit. During the year ended December 31, 2018, the settlement and related tax benefits resulted in an increase to Radian's net income per share of \$0.34 and an increase in book value per share of \$0.34. See Note 10 of Notes to Consolidated Financial Statements for additional information.

Services Acquisitions. During 2018, Radian made three acquisitions that, although the purchase prices were not material to Radian, were consistent with our strategic direction, including growth, diversification and enhancing the core product offerings of our Services business.

During the first quarter of 2018, Radian acquired EnTitle Direct, the owner of EnTitle Insurance, a national title insurance and settlement services company. EnTitle Insurance is qualified to write title insurance business in 39 states and the District of Columbia. By adding the capabilities of EnTitle Insurance to the title and settlement services that we already were offering through our existing title agency, Radian Settlement Services, we have expanded the geographic reach of our title services and are positioned to provide title insurance and settlement services to our customers across the country.

In November 2018, Radian acquired Independent Settlement Services. Independent Settlement Services is a technology-driven national appraisal and title management services company that provides real estate information and valuation solutions in all 50 states, as well as proprietary technology that provides lenders, appraisers, servicing firms, due diligence firms and appraisal-management companies with a fully-automated platform to manage the ordering and delivery of products and services.

In December 2018, Radian acquired the assets of Five Bridges, a developer of proprietary software, data analytics and predictive models leveraging artificial intelligence, machine learning and traditional econometric techniques. With the assets acquired from Five Bridges, we expect to provide consumer and real estate analytics to customers, with a primary focus on valuation and risk management tools that span the entire loan life cycle, from underwriting and origination to servicing, secondary market purchase, and securitization.

Restructuring and Other Exit Costs. As a result of the Company's continued implementation of its 2017 plan to restructure the Services business, restructuring charges were recognized in 2018. In the third quarter of 2018, as a result of our periodic review of long-lived assets for impairment, we also incurred other exit costs associated with impairment of internal-use software. See Notes 1 and 7 of Notes to Consolidated Financial Statements for additional details.

Key Factors Affecting Our Results***Mortgage Insurance***

Our Mortgage Insurance segment provides credit-related insurance coverage, principally through private mortgage insurance, as well as other credit risk management solutions, to mortgage lending institutions and investors nationwide. The chart below highlights certain key drivers affecting our Mortgage Insurance revenue. The following sections discuss these revenue drivers, as well as other key factors affecting our results.

IIF

Persistence Rate

Premium rates and mix of business

Size of mortgage origination market and market demand for low down payment loans

Level of mortgage originations for purchase transactions

Penetration percentage of private mortgage insurance in overall mortgage market and legislative, regulatory and administrative changes impacting the demand for private mortgage insurance

Radian's market share of the private mortgage insurance market

The level of reinsurance we cede to third parties

Levels of GSE credit risk transfer

IIF; Persistence Rate; Mix of Business. Our IIF is one of the primary drivers of our future premiums that we expect to earn over time. Although not reflected in the current period financial statements, nor in our reported

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book value, we expect our IIF to generate substantial earnings in future periods, due to the high credit quality of our current mortgage insurance portfolio and expected persistency over multiple years. Additionally, as a result of the TCJA, the economic value of our existing IIF increased significantly as of December 31, 2017, due to the increase in expected future net cash flows associated with the reduction in expected tax payments.

Based on the composition of our mortgage insurance portfolio, with Monthly Premium Policies comprising a larger proportion of our total portfolio than Single Premium Policies, an increase or decrease in IIF generally has a corresponding impact on premiums earned. Cancellations of our insurance policies as a result of prepayments and other reductions of IIF, such as Rescissions of coverage and claims paid, generally have a negative effect on premiums earned. See "Results of Operations—Mortgage Insurance—*NIW, IIF, RIF*" for more information about the levels and characteristics of our NIW, IIF and RIF.

The ultimate profitability of our Mortgage Insurance business is affected by the impact of mortgage prepayment speeds on the mix of business we write. The measure for assessing the impact of policy cancellations on our IIF is our Persistency Rate, defined as the percentage of IIF that remains in force over a period of time. Assuming all other factors remain constant, over the life of the policies, prepayment speeds have an inverse impact on IIF and the expected revenue from our Monthly Premium Policies. Slower loan prepayment speeds, demonstrated by a higher Persistency Rate, result in IIF remaining in place, providing increased revenue from Monthly Premium Policies over time as premium payments continue and we recover more of our policy acquisition costs. Earlier than anticipated loan prepayments, demonstrated by a lower Persistency Rate, reduce IIF and the revenue from our Monthly Premium Policies. Prepayment speeds may be affected by changes in interest rates, among other factors. An increasing interest rate environment generally will reduce refinancing activity and result in lower prepayments, whereas a declining interest rate environment generally will increase the level of refinancing activity and therefore increase prepayments. In contrast to Monthly Premium Policies, when Single Premium Policies are cancelled by the insured because the loan has been paid off or otherwise, after consideration of any refunds owed to the borrower, we accelerate the recognition of any remaining unearned premiums. Although these cancellations reduce IIF, assuming all other factors remain constant, the profitability of our Single Premium business increases when Persistency Rates are lower. As a result, we believe that writing a mix of Single Premium Policies and Monthly Premium Policies has the potential to moderate the overall impact on our results if actual prepayment speeds are significantly different from expectations. However, this moderating effect may depend on the amount of reinsurance we obtain on portions of our portfolio, with the Single Premium QSR Program currently reducing the proportion of retained Single Premium Policies in our portfolio. The impact of all of our third-party quota share reinsurance programs reduced our retained RIF on Single Premium Policies as a percentage of total RIF from 29.7% to 17.2% at December 31, 2018. See "Overview—*Business Strategy*" for more information.

NIW; Origination Market; Penetration Rate. NIW increases our IIF and our premiums written and earned. NIW is affected by the overall size of the mortgage origination market, the penetration percentage of private mortgage insurance into the overall mortgage origination market and our market share of the private mortgage insurance market. The overall mortgage origination market is influenced by macroeconomic factors such as household formation, household composition, home affordability, interest rates, housing markets in general, credit availability and the impact of various legislative and regulatory actions that may influence the housing and mortgage finance industries. The penetration percentage of private mortgage insurance is mainly influenced by: (i) the competitiveness of private mortgage insurance for GSE conforming loans compared to FHA and VA insured loans and (ii) the relative percentage of mortgage originations that are for purchased homes versus refinances. We believe, for example, that better execution for borrowers with higher FICO scores, lender preference and the inability to cancel FHA insurance for certain loans are factors that continue to provide a competitive advantage for private mortgage insurers. See "Results of Operations—Mortgage Insurance—*NIW, IIF, RIF*."

Private mortgage insurance penetration in the insurable market tends to be significantly higher on new mortgages for purchased homes than on the refinance of existing mortgages, because average LTVs are typically higher on home

purchases and therefore are more likely to require mortgage insurance. Radian Guaranty's share of the private mortgage insurance market is influenced by competition in that market. See "Item 1. Business—Mortgage Insurance—Competition" and "Results of Operations—Mortgage Insurance—*NIW, IIF, RIF.*"

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The following charts provide a historical perspective on certain key market drivers, including:

- the mortgage origination volume from home purchases and refinancings;
- private mortgage insurance penetration as a percentage of the mortgage origination market; and
- the composition of the insured mortgage market between private mortgage insurance and FHA insurance.

(1) Based on actual dollars generated in the credit enhanced market, as reported by the U.S. Department of Housing and Urban Development and industry publicly reported information. Mortgage originations are based upon the average of Mortgage Bankers Association, Freddie Mac and Fannie Mae January 2019 Financial Forecasts.

(2) Excluding HARP originations.

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(1) Based on actual dollars generated in the market based on industry publicly reported information and the most recent available reporting by the U.S. Department of Housing and Urban Development.

Premiums. The premium rates we charge for our insurance are based on a number of borrower, loan and property characteristics. The mortgage insurance industry is highly competitive and private mortgage insurers compete with each other and with the FHA and VA with respect to price and other factors. We expect price competition to continue throughout the mortgage insurance industry and future price changes from private mortgage insurers or the FHA could impact our future premium rates or our ability to compete.

Our pricing is risk-based and is intended to generally align with the capital requirements under the PMIERS, while considering pricing trends within the private mortgage insurance industry. As a result, our pricing is expected to generate relatively consistent returns across the credit spectrum and to provide relatively stable expected loss ratios regardless of further credit expansion or contraction. In developing our strategies, we monitor various competitive and economic factors while seeking to increase the long-term value of our portfolio by balancing both profitability and volume considerations in developing our pricing and origination strategies. We continued to generate strong NIW in 2018, and believe we remain well positioned to compete for the high-quality business being originated today, while at the same time maintaining projected returns on NIW within our targeted ranges.

Our pricing actions gradually affect our results over time, as existing IIF cancels and is replaced with NIW at current pricing. See “Liquidity and Capital Resources—*Radian Group—Short-Term Liquidity Needs—Capital Support for Subsidiaries*” and “Results of Operations—Mortgage Insurance—*NIW, IIF, RIF*” for additional information.

Premiums on our mortgage insurance products are generally paid either on a monthly installment basis (“Monthly Premiums”) or in a single payment (“Single Premiums”) at the time of loan origination. See “Item 1. Business—Mortgage Insurance—Mortgage Insurance Business Overview—*Premium Rates—Primary Mortgage Insurance.*” Our expected premium yield on our Single Premium Policies is lower than on our Monthly Premium Policies because our premium rates are generally lower for our Single Premium Policies. However, as discussed above, the ultimate profitability of Single Premium Policies may be higher or lower than expected due to prepayments. See “—*IIF; Persistency Rate; Mix of Business.*”

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Our actual portfolio returns will depend on a number of factors, including economic conditions, the mix of NIW that we are able to write, our pricing, the amount of reinsurance we use and the level of capital required under the PMIERS financial requirements.

Rescissions, which are discussed in further detail below, result in a full refund of the inception-to-date premiums received, and therefore, premiums earned are negatively affected by any increases in our accrual for estimated Rescission refunds. Additionally, premiums ceded to third-party reinsurance counterparties decrease premiums written and earned.

Approximately 66% of the loans in our total primary mortgage insurance portfolio at December 31, 2018 have Monthly Premium Policies that provide a level monthly premium for the first 10 years of the policy, followed by a reduced level monthly premium thereafter. If a loan is refinanced under HARP, the initial 10-year period is reset. Due to the borrower's ability to cancel the policy generally when the LTV reaches 80% of the original value, and the automatic cancellation of the policy on the date the LTV is scheduled to reach 78% of the original value, the volume of loans that remain insured after 10 years and would be subject to the premium reset is generally not material in relation to the total loans originated. However, to the extent the volume of loans resetting from year to year varies significantly, the trend in earned premiums may also vary.

Losses. Incurred losses represent the estimated future claim payments on newly defaulted insured loans as well as any change in our claim estimates for existing defaults, including changes in the estimates we use to determine our expected losses, and estimates with respect to the frequency, magnitude and timing of anticipated losses on defaulted loans. Other factors influencing incurred losses include:

The mix of credit characteristics in our total direct RIF (e.g., loans with higher risk characteristics, or loans with layered risk that combine multiple higher-risk attributes within the same loan, generally result in more delinquencies and claims). See "Results of Operations—Mortgage Insurance—*NIW, IIF, RIF*."

The average loan size (relatively higher priced properties with larger average loan amounts may result in higher incurred losses).

The percentage of coverage on insured loans (higher percentages of insurance coverage generally correlate with higher incurred losses) and the presence of structural mitigants such as deductibles or stop losses.

Changes in housing values (declines in housing values generally make it more difficult for borrowers to sell a home to avoid default or for the property to be sold to mitigate any claim, and also may negatively affect a borrower's willingness to continue to make mortgage payments when the home value is less than the mortgage balance; conversely, increases in housing values tend to reduce the level of defaults as well as make it more likely that foreclosures will result in the loan being satisfied).

The distribution of claims over the life cycle of a portfolio (historically, claims are relatively low during the first two years after a loan is originated and then increase over a period of several years before declining; however, several factors can impact and change this cycle, including the economic environment, the quality of the underwriting of the loan, characteristics of the mortgage loan, the credit profile of the borrower, housing prices and unemployment rates). Our ability to mitigate potential losses through Rescissions, Claim Denials, cancellations and Claim Curtailments on claims submitted to us. These actions all reduce our incurred losses. However, if these Loss Mitigation Activities are successfully challenged at rates that are higher than expected or we agree to settle disputes related to our Loss Mitigation Activities, our incurred losses will increase. We may enter into specific agreements that govern activities such as claims decisions, claim payments, Loss Mitigation Activities and insurance coverage. As our portfolio originated prior to and including 2008 has become a smaller percentage of our overall insured portfolio, there has been a decrease in the amount of Loss Mitigation Activity with respect to the claims we receive, and we expect this trend to continue, particularly given the limitations on our Loss Mitigation Activities imposed in the 2014 Master Policy. See Note 11 of Notes to Consolidated Financial Statements for additional information on Loss Mitigation Activities and "Item 1A. Risk Factors—*Our Loss Mitigation Activity is not expected to mitigate mortgage insurance losses to the same extent as in prior years; Loss Mitigation Activity could continue to negatively impact our customer*

relationships.”

Other Operating Expenses. Our other operating expenses are affected by the amount of our NIW, as well as the amount of RIF. Our other operating expenses may also be affected by the impact of performance on our incentive

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compensation programs, as a result of our pay-for-performance and risk-based approach to compensation that is based on the level of achievement of both short-term and long-term goals.

Third-Party Reinsurance. We use third-party reinsurance in our mortgage insurance business to manage capital and risk in an effort to optimize the amounts and types of capital and risk distribution deployed against insured risk. See “Overview—Other 2018 Developments—Reinsurance” and “—IIF; Persistency Rate; Mix of Business.” Currently Radian participates in quota share and excess-of-loss reinsurance programs. When we enter into a quota share reinsurance agreement, the reinsurer receives a premium and, in exchange, agrees to insure an agreed upon portion of incurred losses. These arrangements have the impact of reducing our earned premiums but also reduce our net RIF, which provides capital relief, including under the PMIERS financial requirements. Our incurred losses are reduced by any incurred losses ceded in accordance with the reinsurance agreement, and we often receive ceding commissions from the reinsurer as part of the transaction, which reduces our operating expenses and policy acquisition costs. Our Excess-of-Loss Program accesses both the capital and the reinsurance markets to distribute risk, and includes reinsurance through a variable interest entity funded by mortgage insurance-linked notes, as well as separate excess-of-loss reinsurance with a third-party reinsurer. Our Excess-of-Loss Program reduces our net RIF and our incurred losses are reduced by any incurred losses allocated in accordance with the structure of the transaction. While these arrangements have the impact of reducing our earned premiums, they also provide capital relief, including under the PMIERS financial requirements. See Note 8 of Notes to Consolidated Financial Statements for more information about our reinsurance arrangements.

Services

Our Services segment offers a broad array of services to market participants across the mortgage and real estate value chain. These services comprise mortgage services, real estate services and title services, including technology and turn-key solutions, that provide information and other resources used to originate, evaluate, acquire, securitize, service and monitor residential real estate and loans secured by residential real estate. These services primarily are provided to mortgage lenders, financial institutions, investors and government entities. In addition, we provide title insurance to mortgage lenders as well as directly to borrowers.

Our mortgage services help loan originators and investors evaluate, acquire, surveil and securitize mortgages. These services include loan review, RMBS securitization and distressed asset reviews, review and valuation services related to single family rental properties, servicer and loan surveillance and underwriting. Our real estate services help lenders, investors and real estate agents evaluate, manage, monitor and sell properties. These real estate services include software as a service solutions and platforms, as well as managed services, such as REO asset management, real estate valuation services and real estate brokerage services. Our title services provide a comprehensive suite of title insurance products, title settlement services and both traditional and digital closing services. See “Item 1. Business—Services—Customers,” “Item 1. Business—Services—Services Business Overview,” and Note 1 of Notes to Consolidated Financial Statements for additional information regarding the Services segment.

In contrast to our Mortgage Insurance business, the Services segment is primarily a fee-for-service business without significant balance sheet risk. Key factors impacting results for our Services business include:

Services Revenue. Our Services segment is dependent upon overall activity in the mortgage, real estate and mortgage finance markets, as well as the overall health of the related industries. Due, in part, to the transactional nature of its business, revenues for our Services segment are subject to fluctuations from period to period, including seasonal fluctuations that reflect the activities in these markets. Sales volume is also affected by the number of competing companies and alternative products offered in the market. We believe the diversity of services we offer has the potential to produce fee income from the Services segment throughout various mortgage finance environments, although market conditions can significantly impact the mix and amount of fee income we generate in any particular period. In addition, see Note 2 of Notes to Consolidated Financial Statements for information on revenue recognition policies for our Services segment.

The Services segment is dependent on a limited number of large customers that represent a significant portion of its

revenues. An unexpected loss of a major customer could significantly impact the level of Services revenue. Access to Radian Guaranty's mortgage insurance customer base provides additional opportunities to expand the Services segment's existing customers. Generally, our contracts do not contain volume commitments and may be terminated by clients at any time.

Revenue for the Services segment also includes inter-segment revenues from services performed for our Mortgage Insurance segment. See Note 4 of Notes to Consolidated Financial Statements for additional information.

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Our Services revenue is generated under three basic types of contracts:

Fixed-Price Contracts. Under fixed-price contracts, we agree to perform the specified services and deliverables for a pre-determined per-unit or per-file price or day rate. To the extent our actual direct and allocated indirect costs decrease or increase from the estimates upon which the price was negotiated, we will generate more or less profit, respectively, or could incur a loss.

Time-and-Expense Contracts. Under a time-and-expense contract, we are paid a fixed hourly rate, and we are reimbursed for billable out-of-pocket expenses as work is performed. To the extent our actual direct labor costs decrease or increase in relation to the fixed hourly billing rates provided in the contract, we may generate more or less profit, respectively. However, because these contracts are generally short-term in nature, the risk is limited to the periods covered by the contracts. These contracts are used for our loan review, underwriting and due diligence services.

Percentage-of-Sale Contracts. Under percentage-of-sale contracts, we are paid a contractual percentage of the sale proceeds upon the sale of each property. To the extent the sale of a property is delayed or not consummated, or the sales proceeds are significantly less than originally estimated, we may generate less profit than anticipated, or could incur a loss. See "Item 1. Business—Services—Services Business Overview" for more information on our Services revenue.

Cost of Services. Our cost of services is primarily affected by our level of services revenue. Our cost of services primarily consists of employee compensation and related payroll benefits, including the cost of billable labor assigned to revenue-generating activities and, to a lesser extent, other costs of providing services such as travel and related expenses incurred in providing client services, costs paid to outside vendors, data acquisition costs and other compensation-related expenses to maintain software application platforms that directly support our businesses. The level of these costs may fluctuate if market rates of compensation change, or if there is decreased availability or a loss of qualified employees.

Gross Profit on Services. In addition to the key factors affecting Services revenue and cost of services described above, our gross profit on services may fluctuate from period to period due to a shifting mix of services we provide resulting from changes in the relative demand for those services in the marketplace. Shifts in the business mix of our Services business can impact our gross profit because each product and service generally produces a different level of gross margin. These individual gross margins in turn can be impacted in any given period by factors such as the implementation of new regulatory requirements, our operating capacity, competition or other environmental factors.

Premiums. We earn net premiums on title insurance, effective with our acquisition of EnTitle Direct in the first quarter of 2018. By adding the capabilities of its subsidiary, EnTitle Insurance, to the title and settlement services that we already were offering through our existing title agency, Radian Settlement Services, we have expanded the geographic reach of our title services and are positioned to provide title insurance and settlement services to our customers across the country.

Operating Expenses. Our operating expenses primarily consist of salaries and benefits not classified as cost of services because they are related to employees, such as sales and corporate employees, who are not directly involved in providing client services. Operating expenses also include other selling, general and administrative expenses, depreciation, and allocations of corporate general and administrative expenses.

Other Factors Affecting Consolidated Results

The following items also may impact our consolidated results in the ordinary course. The items listed are not representative of all potential items impacting our consolidated results. See "Item 1A. Risk Factors" for additional information on the risks affecting our business.

Investment Income. Investment income is determined primarily by the investment balances held and the average yield on our overall investment portfolio.

Net Gains (Losses) on Investments. The recognition of realized investment gains or losses can vary significantly across periods as the activity is highly discretionary based on such factors as market opportunities, our tax and capital profile and overall market cycles that impact the timing of the sales of securities. Unrealized investment gains and

losses arise primarily from changes in the market value of our investments that are classified as trading securities or, effective with our implementation of the update to the standard for the accounting of financial

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instruments effective January 1, 2018, equity securities. These unrealized gains and losses are generally the result of changes in interest rates or credit spreads and may not necessarily result in economic gains or losses.

Impairment of Goodwill or Other Acquired Intangible Assets. The periodic review of goodwill and other acquired intangible assets for potential impairment may impact consolidated results. Our goodwill and other acquired intangible assets primarily relate to the acquisition of Clayton, and their valuation is based on management’s assumptions, which are inherently subject to risks and uncertainties. In 2017, we recorded total impairment charges of \$200.2 million related to the goodwill and other acquired intangible assets of the Services segment. See Note 7 of Notes to Consolidated Financial Statements for additional information.

Tax Cuts and Jobs Act. The enactment of the TCJA resulted in a material reduction of our net deferred tax assets at December 31, 2017, because deferred tax assets and liabilities are measured using the enacted tax rates that are expected to apply to taxable income in the periods in which the deferred tax assets or liabilities are expected to be realized or settled. See Note 10 of Notes to Consolidated Financial Statements for additional information on the TCJA.

The TCJA, excluding the impact of Discrete Items, has had a significant favorable impact on the Company’s net income, diluted earnings per share and cash flows for 2018, as compared to the tax laws in effect in 2017, primarily due to the reduction in the federal corporate tax rate from 35% to 21%, which was effective on January 1, 2018. See “Results of Operations—Consolidated—*Income Tax Provision*” and Note 10 of Notes to Consolidated Financial Statements for additional information on the TCJA.

Future policy changes or interpretations could have a positive or negative impact on our financial performance depending on how the changes would influence the economy, including business and consumer sentiment and the key factors influencing our performance.

Key Metrics—Consolidated

The following key metrics are used by management in evaluating our performance and measuring the overall growth in value generated for our stockholders. See “Results of Operations—Consolidated,” for additional information on our operating results.

	Year Ended December 31,		
	2018	2017	2016
Diluted net income per share	\$2.77	\$0.55	\$1.37
Adjusted diluted net operating income per share (1)	2.69	1.82	1.56
Book value per share at December 31	16.34	13.90	13.39
Return on equity	18.7 %	4.1 %	11.5 %
Adjusted net operating return on equity (1)	18.2 %	13.7 %	13.1 %

(1) See “Results of Operations—Consolidated—*Use of Non-GAAP Financial Measures*”.

Diluted Net Income Per Share. The changes in diluted net income per share across all periods presented are primarily due to the changes in net income. The change in net income from 2016 to 2017 was partially offset by the decrease in average diluted shares from 229.3 million shares in 2016 to 220.4 million shares for 2017. See “Results of Operations—Consolidated—*Net Income*” for more information on the changes in net income.

The decrease in average diluted shares for 2017 compared to 2016 is primarily due to the full-year impact of the series of capital and liquidity actions completed in 2016, which included: (i) the purchases of portions of our Convertible Senior Notes due 2017 and 2019, and (ii) the purchase of 9.4 million shares of Radian Group common stock. In addition, in January 2017, we settled our obligations with respect to the remaining \$68.0 million aggregate principal amount of our Convertible Senior Notes due 2019 which, as of the settlement date, resulted in a decrease of an additional 6.4 million diluted shares for purposes of determining diluted net income per share.

Adjusted diluted net operating income per share. The increase in adjusted diluted net operating income per share for 2018, compared to 2017, is primarily due to the increase in our Mortgage Insurance segment’s adjusted pretax

operating income, which increased to \$772.6 million in 2018, from \$651.0 million in 2017. The increase in adjusted diluted net operating income

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per share for 2018 as compared to 2017 was also impacted by the reduction in the company's federal statutory tax rate from 35% to 21%, which was effective on January 1, 2018.

The increase in adjusted diluted net income per share for 2017, compared to 2016, is primarily due to the increase in our Mortgage Insurance segment's adjusted pretax operating income, which increased to \$651.0 million in 2017, from \$561.9 million in 2016. The increase in adjusted diluted net operating income per share for 2017 as compared to 2016 was also impacted by the decrease in average diluted shares, as discussed above.

See "Results of Operations—Mortgage Insurance—*Adjusted Pretax Operating Income*" for more information on our Mortgage Insurance segment's results.

Book Value Per Share. The increase in book value per share, from \$13.90 at December 31, 2017 to \$16.34 at December 31, 2018, is primarily due to net income, partially offset by a decrease of \$0.41 per share due to unrealized losses in our available for sale securities, recorded in accumulated other comprehensive income.

The increase in book value per share, from \$13.39 at December 31, 2016 to \$13.90 at December 31, 2017, is primarily due to our net income and an increase in unrealized gains in other comprehensive income, partially offset by the equity impact of the series of capital and liquidity actions completed in 2017, as discussed above.

The amount of goodwill and other acquired intangible assets included in book value per share decreased significantly, from \$1.29 per share at December 31, 2016 to \$0.30 per share at December 31, 2017 and \$0.28 per share at December 30, 2018, primarily due to the impairment of goodwill and other acquired intangible assets, in each case related to the Services segment, as shown in the chart below.

Return on equity. The changes in return on equity across all periods presented are primarily due to the changes in net income and, to a lesser extent, increases in stockholders' equity. See "Results of Operations—Consolidated—*Net Income*" for more information on the changes in net income.

Adjusted net operating return on equity. The increases in adjusted net operating return on equity across all periods presented are primarily due to the increases in our adjusted pretax operating income, partially offset by increases in stockholders' equity. The increases in our adjusted pretax operating income primarily reflect the increases in our Mortgage Insurance segment's adjusted pretax operating income. See "Results of Operations—Mortgage Insurance—*Adjusted Pretax Operating Income*" for more information on our Mortgage Insurance segment's results. The increase in adjusted net operating return on equity for 2018 as compared to 2017 was also impacted by the reduction in the company's federal statutory tax rate from 35% to 21%, which was effective on January 1, 2018.

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Radian Group serves as the holding company for our operating subsidiaries and does not have any operations of its own. Our consolidated operating results for 2018 primarily reflect the financial results and performance of our two business segments—Mortgage Insurance and Services. See Note 4 of Notes to Consolidated Financial Statements for information regarding the basis of our segment reporting, including the related allocations. See “Results of Operations—Mortgage Insurance,” and “Results of Operations—Services” for the operating results of these business segments.

In addition to the results of our operating segments, pretax income (loss) is also affected by other factors. See “Key Factors Affecting Our Results—Other Factors Affecting Consolidated Results.” See “—Use of Non-GAAP Financial Measures” below for more information regarding items that are excluded from the operating results of our operating segments.

The following table highlights selected information related to our consolidated results of operations for the years ended December 31, 2018, 2017 and 2016:

(\$ in millions, except per-share amounts)	Year Ended December 31,			\$ Change	
	2018	2017	2016	2018 vs. 2017	2017 vs. 2016
Pretax income	\$684.2	\$346.7	\$483.7	\$337.5	\$(137.0)
Net income	606.0	121.1	308.3	484.9	(187.2)
Net premiums earned—insurance	\$1,014.0	\$932.8	\$921.8	\$81.2	\$11.0
Services revenue	145.0	155.1	168.9	(10.1)	(13.8)
Net investment income	152.5	127.2	113.5	25.3	13.7
Net gains (losses) on investments and other financial instruments	(42.5)	3.6	30.8	(46.1)	(27.2)
Provision for losses	104.6	135.2	202.8	30.6	67.6
Cost of services	98.1	104.6	114.2	6.5	9.6
Other operating expenses	280.8	267.3	244.9	(13.5)	(22.4)
Restructuring and other exit costs	6.1	17.3	—	11.2	(17.3)
Interest expense	61.5	62.8	81.1	1.3	18.3
Loss on induced conversion and debt extinguishment	—	51.5	75.1	51.5	23.6
Impairment of goodwill	—	184.4	—	184.4	(184.4)
Amortization and impairment of other acquired intangible assets	12.4	27.7	13.2	15.3	(14.5)
Income tax provision	78.2	225.6	175.4	147.4	(50.2)
Adjusted pretax operating income (1)	\$745.5	\$617.2	\$541.8	\$128.3	\$75.4

(1) See “—Use of Non-GAAP Financial Measures” below.

Net Income. As discussed in more detail below, our net income increased for 2018, compared to 2017, primarily reflect: (i) the impairment of goodwill and other acquired intangible assets related to our Services segment recognized in the three months ended June 30, 2017; (ii) a lower effective income tax rate in 2018 (see “—Income Tax Provision” below); (iii) an increase in net premiums earned; (iv) a decrease in loss on induced conversion and debt extinguishment; (v) a decrease in provision for losses and (vi) an increase in net investment income. Partially offsetting these items is an increase in net losses on investments and other financial instruments. See “Results of Operations—Mortgage Insurance” and “Results of Operations—Services” for more information on our segment results. For 2018, revenue increased compared to 2017, primarily driven by increases of 8% in mortgage insurance net premiums earned. Other operating expenses increased by 5% in 2018 compared to 2017. See “—Other Operating Expenses,” below.

As discussed in more detail below, our results for 2017 compared to 2016 primarily reflect: (i) the impairment of goodwill and other acquired intangible assets related to the Services segment; (ii) additional tax expense related to the remeasurement of our net deferred tax assets as a result of the TCJA; (iii) a decrease in net gains on investments and other financial instruments;

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(iv) an increase in other operating expenses; and (v) restructuring and other exit costs associated with our plan to restructure the Services business. These items were partially offset by, among other things: (i) a decrease in provision for losses; (ii) a decrease in loss on induced conversion and debt extinguishment; and (iii) lower interest expense.

Services Revenue and Cost of Services. Services revenue and cost of services all relate to our Services segment. See “Results of Operations—Services” for more information.

Net Gains (Losses) on Investments and Other Financial Instruments. The increase in net losses on investments and other financial instruments for 2018, as compared to 2017, is primarily due to the increase in unrealized losses in our trading portfolio related to changes in fair value resulting from increased interest rates.

The decrease in net gains on investments and other financial instruments in 2017 as compared to 2016 is primarily due to: (i) the decrease in net realized gains attributable to sales and redemptions of fixed-maturities available for sale and trading securities and (ii) the decrease in unrealized gains on investments and other financial instruments in 2017, as compared to 2016, primarily related to the change in fair value of trading securities and other investments.

The components of the net gains (losses) on investments and other financial instruments for the periods indicated are as follows:

<u>(In millions)</u>	Year Ended December 31,		
	2018	2017	2016
Net unrealized gains (losses) related to change in fair value of trading securities and other investments (1)	\$ (27.3)	\$ 13.2	\$ 27.2
Net realized gains (losses) on investments	(12.1)	(8.6)	4.3
Other-than-temporary impairment losses	(1.7)	(1.4)	(0.5)
Net gains (losses) on other financial instruments	(1.4)	0.4	(0.2)
Net gains (losses) on investments and other financial instruments	\$ (42.5)	\$ 3.6	\$ 30.8

These amounts include unrealized gains (losses) on investment securities other than securities available for sale.

For 2017 and 2016, the unrealized gains (losses) on investments exclude the net change in unrealized gains and (1) losses on equity securities. Prior to the implementation of the update to the standard for the accounting of financial instruments effective January 1, 2018, the unrealized gains (losses) associated with equity securities were classified in accumulated other comprehensive income.

Other Operating Expenses. Other operating expenses for 2018 increased as compared to 2017, primarily as a result of: (i) higher compensation expense in 2018, including variable and incentive-based compensation and (ii) an increase due to the acquisition of EnTitle Direct on March 27, 2018, and the resulting inclusion of its operating expenses.

These effects were partially offset by an increase in ceding commissions in 2018, primarily due to the 2018 Single Premium QSR Agreement and the increased cession percentage on the 2016 Single Premium QSR Agreement. In addition to these items, 2018, as compared to 2017, also included: (i) lower expenses associated with retirement and consulting agreements entered into in February 2017 with our former Chief Executive Officer and (ii) lower accrued legal expenses related to defending and resolving certain outstanding legal matters.

Other operating expenses for 2017 increased as compared to 2016, primarily due to: (i) \$6.6 million of expenses associated with retirement and consulting agreements entered into in February 2017 with our former Chief Executive Officer; (ii) increases in technology expenses associated with a significant investment in upgrading our systems; (iii) expenses accrued to defend and resolve certain outstanding legal matters; and (iv) a decrease in ceding commissions. The increase in other operating expenses for 2017 was partially offset by lower compensation expense in 2017, including variable incentive-based compensation.

Restructuring and other exit costs. For 2018, we recognized \$3.6 million of other exit costs associated with impairment of internal-use software. Restructuring and other exit costs for 2018 also include the remaining charges associated with our plan to restructure the Services business. See Note 1 of Notes to Consolidated Financial

Statements for more information.

For 2017, restructuring and other exit costs represent charges associated with our plan to restructure the Services business. Charges are primarily due to severance and related benefit costs and impairment of long-lived assets and loss from the sale of a business line. See Note 7 of Notes to Consolidated Financial Statements for more information on our review of the strategic

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direction of the Services segment, which resulted in these charges, as well as charges for impairment of goodwill and other intangible assets.

Interest Expense. Interest expense for 2018 and 2017 decreased, as compared to 2016. This decrease was primarily due to reductions in interest expense from our: (i) August 2016 redemption of the remaining \$195.5 million outstanding principal amount of our Senior Notes due 2017; (ii) January 2017 settlement of the remaining \$68.0 million outstanding principal amount of our Convertible Senior Notes due 2019; and (iii) purchases during 2016 of \$322.0 million aggregate principal amount of Convertible Senior Notes due 2019.

Loss on induced conversion and debt extinguishment. During 2018, we had no induced conversion or debt extinguishment activities.

During 2017, pursuant to cash tender offers, we purchased aggregate principal amounts of \$141.4 million, \$115.9 million and \$152.3 million of our Senior Notes due 2019, 2020 and 2021, respectively, resulting in a loss on induced conversion and debt extinguishment of \$45.8 million. During 2017, we also purchased an aggregate principal amount of \$21.6 million of our outstanding Convertible Senior Notes due 2017 and settled our obligations on the remaining Convertible Senior Notes due 2019, resulting in losses on debt extinguishment of \$1.2 million and \$4.5 million, respectively.

During 2016, our purchases of Convertible Senior Notes due 2017 and 2019 and redemption of Senior Notes due 2017 resulted in a loss on induced conversion and debt extinguishment of \$75.1 million consisting of: (i) a market premium of \$41.8 million, representing the excess of the fair value of the total consideration delivered to the sellers of the Convertible Senior Notes due 2017 and 2019 over the fair value of the common stock issuable pursuant to the original conversion terms of the purchased notes; (ii) a loss on debt extinguishment of \$17.2 million, representing the difference between the fair value and the carrying value, net of unamortized issuance costs, of the liability component of the purchased Convertible Senior Notes due 2017 and 2019; (iii) a loss on debt extinguishment of \$15.0 million on the redemption of the Senior Notes due 2017; and (iv) expenses totaling \$1.1 million for transaction costs.

Amortization and Impairment of Other Acquired Intangible Assets and Impairment of Goodwill. In 2018, there was no impairment of goodwill or other acquired intangible assets.

The amortization of intangible assets primarily reflects the amortization of intangible assets acquired as part of the Clayton acquisition. During the second quarter of 2017, we recorded a goodwill impairment charge of \$184.4 million, as well as an impairment charge for other acquired intangible assets of \$15.8 million, in each case related to our Services segment. These charges were primarily due to changes in expectations regarding the future growth of certain Services business lines, resulting from changes in our business strategy, combined with market trends observed during the second quarter of 2017 that we expected would persist. As a result, as of December 31, 2017, the remaining balances of goodwill and other acquired intangible assets reported in our consolidated balance sheet were \$10.9 million and \$53.3 million, respectively. See Note 7 of Notes to Consolidated Financial Statements for additional information.

Income Tax Provision. The TCJA significantly changed the U.S. tax system and, among other things, reduced the federal corporate tax rate from 35% to 21%, effective January 1, 2018. Our effective tax rate was 11.4% for 2018, compared to 65.1% for 2017 and 36.3% for 2016. The difference in our effective tax rates in comparison to the federal statutory rates were primarily the result of Discrete Items. Our 2018 effective tax rate was lower than the federal statutory tax rate of 21% primarily as a result of the tax benefit recorded related to the settlement of our IRS Matter. The increase in our effective tax rate for 2017 above the 35% federal statutory tax rate was primarily due to the impact of the TCJA, which resulted in a \$102.6 million reduction of our net deferred tax assets, recorded as additional income tax provision. See "Overview—Operating Environment—Tax Cuts and Jobs Act" and Note 10 of Notes to Consolidated Financial Statements for additional information on the TCJA.

Our 2016 effective tax rate was slightly higher than the federal statutory rate of 35%, primarily as a result of the non-deductible portion of the purchase premium relating to our Convertible Senior Notes due 2017 and 2019. The increase was partially offset by the income tax benefit resulting from our return-to-provision adjustment.

Use of Non-GAAP Financial Measures. In addition to the traditional GAAP financial measures, we have presented “adjusted pretax operating income,” “adjusted diluted net operating income per share” and “adjusted net operating return on equity,” which are non-GAAP financial measures for the consolidated company and are among our key performance indicators used in evaluating our fundamental financial performance. These non-GAAP financial measures align with the way our business performance is evaluated by both management and by our board of directors. These measures have been established in order to increase transparency for the purposes of evaluating our operating trends and enabling more meaningful comparisons with our peers. Although on a consolidated basis “adjusted pretax operating income,” “adjusted diluted net operating income per share” and “adjusted net operating return on equity” are non-GAAP financial measures, for the reasons discussed above we

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believe these measures aid in understanding the underlying performance of our operations. Our senior management, including our Chief Executive Officer (Radian's chief operating decision maker), uses adjusted pretax operating income (loss) as our primary measure to evaluate the fundamental financial performance of the Company's business segments and to allocate resources to the segments.

Adjusted pretax operating income is defined as GAAP consolidated pretax income from continuing operations, excluding the effects of: (i) net gains (losses) on investments and other financial instruments; (ii) loss on induced conversion and debt extinguishment; (iii) acquisition-related expenses; (iv) amortization or impairment of goodwill and other acquired intangible assets; and (v) net impairment losses recognized in earnings and losses from the sale of lines of business. Adjusted diluted net operating income per share is calculated by dividing (i) adjusted pretax operating income attributable to common stockholders, net of taxes computed using the company's statutory tax rate, by (ii) the sum of the weighted average number of common shares outstanding and all dilutive potential common shares outstanding. Interest expense on convertible debt, share dilution from convertible debt and the impact of share-based compensation arrangements have been reflected in the per share calculations consistent with the accounting standard regarding earnings per share, whenever the impact is dilutive. Adjusted net operating return on equity is calculated by dividing annualized adjusted pretax operating income, net of taxes computed using the company's statutory tax rate, by average stockholders' equity, based on the average of the beginning and ending balances for each period presented.

Although adjusted pretax operating income excludes certain items that have occurred in the past and are expected to occur in the future, the excluded items represent those that are: (i) not viewed as part of the operating performance of our primary activities or (ii) not expected to result in an economic impact equal to the amount reflected in pretax income. These adjustments, along with the reasons for their treatment, are described below.

- Net gains (losses) on investments and other financial instruments.* The recognition of realized investment gains or losses can vary significantly across periods as the activity is highly discretionary based on the timing of individual securities sales due to such factors as market opportunities, our tax and capital profile and overall market cycles.
- (1) Unrealized gains and losses arise primarily from changes in the market value of our investments that are classified as trading or equity securities. These valuation adjustments may not necessarily result in realized economic gains or losses.

Trends in the profitability of our fundamental operating activities can be more clearly identified without the fluctuations of these realized and unrealized gains or losses and changes in fair value of other financial instruments. We do not view them to be indicative of our fundamental operating activities. Therefore, these items are excluded from our calculation of adjusted pretax operating income (loss).

- Loss on induced conversion and debt extinguishment.* Gains or losses on early extinguishment of debt and losses incurred to purchase our convertible debt prior to maturity are discretionary activities that are undertaken in order to take advantage of market opportunities to strengthen our financial and capital positions; therefore, we do not view these activities as part of our operating performance. Such transactions do not reflect expected future operations and do not provide meaningful insight regarding our current or past operating trends. Therefore, these items are excluded from our calculation of adjusted pretax operating income (loss).
- (2)

- Acquisition-related expenses.* Acquisition-related expenses represent the costs incurred to effect an acquisition of a business (i.e., a business combination). Because we pursue acquisitions on a strategic and selective basis and not in the ordinary course of our business, we do not view acquisition-related expenses as a consequence of a primary business activity. Therefore, we do not consider these expenses to be part of our operating performance and they are excluded from our calculation of adjusted pretax operating income (loss).
- (3)

- Amortization or impairment of goodwill and other acquired intangible assets.* Amortization of acquired intangible assets represents the periodic expense required to amortize the cost of acquired intangible assets over their estimated useful lives. Acquired intangible assets with an indefinite useful life are also periodically reviewed for potential impairment, and impairment adjustments are made whenever appropriate. These charges are not viewed

as part of the operating performance of our primary activities and therefore are excluded from our calculation of adjusted pretax operating income (loss).

Net impairment losses recognized in earnings and losses from the sale of lines of business . The recognition of net impairment losses on investments and the impairment of other long-lived assets does not result in a cash payment and can vary significantly in both amount and frequency, depending on market credit cycles and other factors.

- (5) Losses from the sale of lines of business are highly discretionary as a result of strategic restructuring decisions, and generally do not occur in the normal course of our business. We do not view these losses to be indicative of our fundamental operating activities. Therefore, whenever these losses occur, we exclude t

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hem from our calculation of adjusted pretax operating income (loss).

Total adjusted pretax operating income, adjusted diluted net operating income per share, and adjusted net operating return on equity are not measures of total profitability, and therefore should not be considered in isolation or viewed as substitutes for GAAP pretax income, diluted net income per share, or return on equity. Our definitions of adjusted pretax operating income, adjusted diluted net operating income per share, and adjusted net operating return on equity may not be comparable to similarly-named measures reported by other companies.

The following tables provide reconciliations of the most comparable GAAP measures of consolidated pretax income, diluted net income per share and return on equity, to our non-GAAP financial measures for the consolidated company of adjusted pretax operating income, adjusted diluted net income per share and adjusted net operating return on equity, respectively:

<u>(In thousands)</u>	Year Ended December 31,		
	2018	2017	2016
Consolidated pretax income	\$684,186	\$346,737	\$483,686
Less income (expense) items:			
Net gains (losses) on investments and other financial instruments	(42,476)	3,621	30,751
Loss on induced conversion and debt extinguishment	—	(51,469)	(75,075)
Acquisition-related expenses (1)	(881)	(105)	(519)
Impairment of goodwill	—	(184,374)	—
Amortization and impairment of other acquired intangible assets	(12,429)	(27,671)	(13,221)
Impairment of other long-lived assets and loss from the sale of a business line (2)	(5,523)	(10,440)	—
Total adjusted pretax operating income (3)	\$745,495	\$617,175	\$541,750

(1) Acquisition-related expenses represent expenses incurred to effect the acquisition of a business, net of adjustments to accruals previously recorded for acquisition expenses.

All amounts are included within restructuring and other exit costs on the consolidated statements of operations, (2) except for \$1.6 million in 2018 related to the impairment of other long-lived assets, included in other operating expenses.

(3) Total adjusted pretax operating income on a consolidated basis consists of adjusted pretax operating income (loss) for our

Mortgage Insurance segment and our Services segment, as further detailed in Note 4 of Notes to Consolidated Financial Statements.

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<u>(In thousands)</u>	Year Ended December 31,		
	2018	2017	2016
Diluted net income per share	\$2.77	\$0.55	\$1.37
Less per-share impact of debt items:			
Loss on induced conversion and debt extinguishment	—	(0.23)	(0.33)
Income tax provision (benefit) (1)	—	(0.08)	(0.07)
Per-share impact of debt items	—	(0.15)	(0.26)
Less per-share impact of reconciling income (expense) items:			
Net gains (losses) on investments and other financial instruments	(0.19)	0.02	0.14
Impairment of goodwill	—	(0.84)	—
Amortization and impairment of other acquired intangible assets	(0.06)	(0.13)	(0.06)
Impairment of other long-lived assets and loss from the sale of a business line	(0.03)	(0.05)	—
Income tax provision (benefit) on other income (expense) items (1)	(0.06)	(0.35)	0.03
Difference between statutory and effective tax rate (2)	0.30	(0.47)	0.02
Per-share impact of other income (expense) items	0.08	(1.12)	0.07
Adjusted diluted net operating income per share (1)	\$2.69	\$1.82	\$1.56

Calculated using the company's federal statutory tax rates of 21% for 2018 and 35% for 2017 and 2016. Any (1) permanent tax adjustments and state income taxes on these items have been deemed immaterial and are not included.

For 2018, includes \$0.34 of tax benefit related to the settlement of the IRS Matter, which includes both the impact (2) of the settlement with the IRS as well as the reversal of certain related previously accrued state and local tax liabilities. All of the 2017 amount represents additional tax expense related to the remeasurement of our net deferred tax assets as a result of the TCJA enacted in December 2017.

<u>(In thousands)</u>	Year Ended December 31,		
	2018	2017	2016
Return on Equity (1)	18.7 %	4.1 %	11.5 %
Less impact of reconciling income (expense) items: (2)			
Net gains (losses) on investments and other financial instruments	(1.3)	0.1	1.1
Loss on induced conversion and debt extinguishment	—	(1.8)	(2.8)
Impairment of goodwill	—	(6.3)	—
Amortization and impairment of other acquired intangible assets	(0.4)	(0.9)	(0.5)
Impairment of other long-lived assets and loss from the sale of a business line	(0.2)	(0.4)	—
Income tax provision (benefit) on reconciling income (expense) items (3)	(0.4)	(3.2)	(0.8)
Difference between statutory and effective tax rate (3) (4)	2.0	(3.5)	(0.2)
Impact of reconciling income (expense) items	0.5	(9.6)	(1.6)
Adjusted net operating return on equity	18.2 %	13.7 %	13.1 %

- (1) Calculated by dividing net income by average stockholders' equity.
- (2) As a percentage of average stockholders' equity.

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Calculated using the company's federal statutory tax rates of 21% for 2018 and 35% for 2017 and 2016. Any (3) permanent tax adjustments and state income taxes on these items have been deemed immaterial and are not included.

The difference in 2018 includes the tax benefit related to the settlement of the IRS Matter, which includes both the (4) impact of the settlement with the IRS as well as the reversal of certain related previously accrued state and local tax liabilities. All of the 2017 amount represents additional tax expense related to the remeasurement of our net deferred tax assets as a result of the TCJA enacted in December 2017.

Results of Operations—Mortgage Insurance

During 2018, we continued our strategy of growing our mortgage insurance portfolio by writing insurance on mortgages with high credit quality. At December 31, 2018, we had \$221.4 billion in IIF compared to \$200.7 billion in IIF at December 31, 2017. We also expanded our risk distribution strategy and continued to focus on effectively managing our capital and liquidity positions. See "Liquidity and Capital Resources—*Radian Group—Short-Term Liquidity Needs—Capital Support for Subsidiaries*" and Note 1 of Notes to Consolidated Financial Statements for additional information.

The following table summarizes our Mortgage Insurance segment's results of operations for the years ended December 31, 2018, 2017 and 2016:

<u>(In millions)</u>	Year Ended December 31,			\$ Change	
	2018	2017	2016	Favorable (Unfavorable) 2018 vs. 2017	2017 vs. 2016
Adjusted pretax operating income (1)	\$772.6	\$651.0	\$561.9	\$121.6	\$89.1
Net premiums written—insurance (2)	991.0	818.4	733.8	172.6	84.6
(Increase) decrease in unearned premiums	15.7	114.4	187.9	(98.7)	(73.5)
Net premiums earned—insurance	1,006.7	932.8	921.8	73.9	11.0
Net investment income	152.1	127.2	113.5	24.9	13.7
Provision for losses	104.5	136.2	204.2	31.7	68.0
Other operating expenses (3)	215.5	206.4	185.8	(9.1)	(20.6)
Interest expense	43.7	45.0	63.4	1.3	18.4

Our senior management uses adjusted pretax operating income as our primary measure to evaluate the fundamental (1) financial performance of our business segments. See Note 4 of Notes to Consolidated Financial Statements for more information.

(2) Net of ceded premiums written under the QSR Program, the Single Premium QSR Program and the Excess-of-Loss Program. See Note 8 of Notes to Consolidated Financial Statements for more information.

(3) Includes allocation of corporate operating expenses of \$80.1 million, \$55.4 million and \$45.2 million for 2018, 2017 and 2016, respectively.

Adjusted Pretax Operating Income. Our Mortgage Insurance segment's adjusted pretax operating income for 2018 was \$772.6 million, compared to \$651.0 million for 2017 and \$561.9 million for 2016. The increase in our adjusted pretax operating income for 2018, compared to 2017, primarily reflects: (i) an increase in net premiums earned; (ii) a decrease in provision for losses; and (iii) an increase in net investment income. Our results for 2017 compared to 2016 primarily reflect a decrease in the provision for losses and to a lesser extent, a decrease in interest expense. These increases in adjusted pretax operating income were partially offset by higher other operating expenses.

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A key component of our current business strategy is to write profitable mortgage insurance on high credit quality mortgages in the U.S. Consistent with this objective, we wrote \$56.5 billion of primary new mortgage insurance in 2018, compared to \$53.9 billion of NIW in 2017. The NIW written on a Flow Basis in 2018 was Radian's highest volume in its history. The combination of our NIW and a higher Persistency Rate resulted in an increase in IIF, from \$200.7 billion at December 31, 2017 to \$221.4 billion at December 31, 2018, as shown in the chart below.

(1) Policy years represent the original policy years, and have not been adjusted to reflect subsequent HARP refinancing activity.

(2) If adjusted to reflect subsequent HARP refinancing activity, this percentage would decrease to 6.0%, 8.4%, and 12.1% as of December 31, 2018, December 31, 2017 and December 31, 2016, respectively.

Our IIF is one of the primary drivers of future premiums that we expect to earn over time. Although not reflected in the current period financial statements, nor in our reported book value, we expect our IIF to generate substantial earnings in future periods, due to the high credit quality of our current mortgage insurance portfolio and expected persistency over multiple years. Additionally, as a result of the TCJA, the economic value of our existing IIF increased significantly as of December 31, 2017, due to the increase in expected future net cash flows associated with the reduction in expected tax payments. See "Key Factors Affecting Our Results—*Mortgage Insurance—IIF; Persistency Rate; Mix of Business*" for more information.

We implemented pricing changes during the first half of 2018 that we estimate will result in an overall relative premium rate decrease on NIW. The changes are expected to gradually affect our results over time, as existing IIF is replaced with NIW at current pricing. These changes, however, do not affect the value or future returns on our IIF written prior to 2018; therefore, the impact of these pricing actions on near-term revenue is expected to be limited. As an example, assuming our current NIW levels, mix and persistency levels remain constant, we estimate that it would take approximately three years for approximately one-half of our IIF to reflect our current pricing structure. However, the ultimate results of the changes will be influenced by many other factors, including the amount of NIW, changes in the product and credit profile mix of both NIW and policy cancellations, the impact of interest rates and product mix on persistency, and the amount of reinsurance we use. See "Overview—*Competition and Pricing—Radian's Pricing*" for additional information.

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The 4.9% increase in NIW for 2018 compared to 2017 is primarily attributable to increases in mortgage insurance penetration and overall purchase mortgage originations, partially offset by decreases in refinance originations and our share of the mortgage insurance market.

We believe total mortgage origination volume was lower for 2018, as compared to 2017, primarily due to a decrease in refinance mortgage originations resulting from the slightly higher interest rate environment, partially offset by a modest increase in purchase originations. Mortgage insurance penetration in the purchase origination market has gradually increased over the past few years, and because the penetration rate for mortgage insurance is generally three to five times higher on purchase originations than on refinancing transactions, we believe that even though the total mortgage origination volume was lower, the private mortgage insurance market was larger in 2018, compared to 2017. Although it is difficult to project future volumes, industry sources expect the total mortgage origination market in 2019 to be comparable to the market in 2018, driven by a decline in refinance originations of approximately 11% as a result of higher anticipated interest rates, partially offset by an expected increase in purchase originations of approximately 4%. Given our expected penetration rates, we expect the private mortgage insurance market in 2019 to be comparable to 2018. Based on industry forecasts and our projections, we expect our NIW in 2019 to be in the range of \$50 billion.

Consistent with the market trends described above, during 2018 the level of our purchase origination volume increased and our refinance origination volume decreased (each as a percentage of our total NIW), as compared to 2017. As a percentage of our total NIW, the volume of our NIW on mortgage loans with LTVs greater than 95% also increased during 2018, compared to 2017. During 2018, in comparison to 2017, we also continued to experience an increased percentage of our total NIW on mortgage loans to borrowers with higher debt-to-income ratios, including debt-to-income ratios greater than 45%. See “Overview—*Operating Environment*” for additional information.

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Notwithstanding this recent shift toward loans with higher LTVs and borrowers with higher debt-to-income ratios, the mortgage loans underlying our RIF originated after 2008 possess significantly improved credit characteristics compared to our portfolio originated prior to and including 2008. For example, FICO scores for the borrowers of our current portfolio of insured mortgages are higher, and notwithstanding the recent increase in loans with higher LTVs, there are fewer loans with LTVs greater than 95%. In addition, we have limited loans subject to layered risk that combines multiple higher-risk attributes within the same loan, specifically low FICO scores combined with other higher risk characteristics. For example, a de minimis amount of our primary RIF originated after 2008 relates to mortgages with (i) FICO scores less than 680 combined with cash-out refinancings or original LTVs greater than 95% or (ii) FICO scores less than or equal to 720 on an investment property or second home. The table below illustrates the composition of our direct primary mortgage insurance RIF at December 31, 2018 compared to selected prior years, based on FICO score and LTV.

Historical loan data indicates that credit scores and underwriting quality are key drivers of credit performance. As illustrated by the preceding chart, the FICO scores of our primary RIF has significantly improved in business written after 2008. As of December 31, 2018, our portfolio of business written subsequent to 2008, including HARP refinancings, represented approximately 94% of our total primary RIF. The high volume of insurance that we have written on high credit quality loans has led to an improved portfolio mix and, together with favorable credit trends, has had a significant positive impact on our results of operations. For additional information, see the tables that follow, including the table, "Total Primary RIF by Policy Year."

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Our expected future losses on our portfolios written after 2008, together with HARP refinancings, are significantly lower than those experienced on our NIW prior to and including 2008. The following charts illustrate the trends of our cumulative incurred loss ratios by year of origination and development year.

- (1) Represents inception-to-date losses incurred as a percentage of net premiums earned on mortgage insurance.
- (2) Incurred losses in 2017 were slightly elevated due to the impact of Hurricanes Harvey and Irma. See "Overview—*Operating Environment—Hurricanes*" for additional information.
- (3) Radian's stochastic modeling, used for pricing, indicates an approximate 20% through-the-cycle loss ratio on newly originated mortgage insurance business.

The following tables provide selected information as of and for the periods indicated related to mortgage insurance NIW, RIF and IIF. Policy years represent the original policy years, and have not been adjusted to reflect subsequent HARP refinancing activity. Throughout this report, unless otherwise noted, RIF is presented on a gross basis before consideration of the amount ceded under reinsurance. NIW, RIF and IIF for direct Single Premiums include policies written on an individual basis (as each loan is originated) and on an aggregated basis (in which each individual loan in a group of loans is insured in a single transaction, typically after the loans have been originated).

(\$ in millions)	Year Ended December 31,					
	2018		2017		2016	
Total Primary NIW by FICO Score						
>=740	\$34,209	60.5 %	\$32,928	61.1 %	\$31,426	62.2 %
680-739	18,250	32.3	17,641	32.7	16,001	31.7
620-679	4,088	7.2	3,336	6.2	3,103	6.1
Total Primary NIW	\$56,547	100.0%	\$53,905	100.0%	\$50,530	100.0%

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(\$ in millions)	Year Ended December 31,			
	2018	2017	2016	
Percentage of Primary NIW				
Borrower-paid	90	% 78	% 75	%
Premium Type				
Direct Monthly and Other Premiums	79	% 77	% 73	%
Direct Single Premiums				
Lender-paid	9	% 21	% 25	%
Borrower-paid (1)	12	% 2	% 2	%
Total Primary NIW	100.0	% 100.0	% 100.0	%
Net Single Premiums (2)	8	% 15	% 18	%
NIW for Purchases	94	% 89	% 78	%
NIW for Refinances	6	% 11	% 22	%
LTV				
95.01% and above	16.7	% 13.2	% 5.7	%
90.01% to 95.00%	44.4	% 46.0	% 47.5	%
85.01% to 90.00%	27.6	% 28.5	% 32.0	%
85.00% and below	11.3	% 12.3	% 14.8	%
Primary risk written	\$14,264	\$13,569	\$12,538	

Borrower-paid Single Premium Policies have lower Minimum Required Assets under PMIERS as compared to (1) lender-paid Single Premium Policies. See "Overview—*Competition and Pricing—Radian's Pricing*" for additional information.

Represents the percentage of direct Single Premium Policies written, after giving effect to the Single Premium (2) NIW ceded under the Single Premium QSR Program (for NIW after the effective dates of the respective agreements). See Note 8 of Notes to Consolidated Financial Statements for additional information about these arrangements.

(\$ in millions)	December 31,			
	2018	2017	2016	
Primary IIF				
Direct Monthly and Other Premiums	70	% 69	% 68	%
Direct Single Premiums	30	% 31	% 32	%
Net Single Premiums (1)	17	% 20	% 25	%
Total Primary IIF	\$221,443	\$200,724	\$183,450	
Persistency Rate (12 months ended)	83.1	% 81.1	% (2) 76.7	% (3)
Persistency Rate (quarterly, annualized) (4)	85.5	% 79.4	% (2) 76.8	%

(1) Represents the percentage of Single Premium IIF, after giving effect to all quota-share reinsurance ceded. See Note

8 of Notes to Consolidated Financial Statements for additional information about reinsurance transactions.

The Persistency Rate in the fourth quarter of 2017 was reduced by an increase in cancellations of Single Premium Policies due to increased cancellations identified through our ongoing servicer monitoring process for Single Premium Policies.

The Persistency Rate for the 12 months ended December 31, 2016 was less than in subsequent years, primarily due to increased refinancing activity and the cancellations of Single Premium Policies in 2016. See “—*Net Premiums Written and Earned*” below.

The Persistency Rate on a quarterly, annualized basis is calculated based on loan level detail for the fourth quarter of each year shown. It may be affected by seasonality or other factors, and may not be indicative of full-year trends.

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<u>(\$ in millions)</u>	December 31,		
	2018	2017	2016
Primary RIF by Premium Type			
Direct Monthly and Other Premiums	\$39,894	70.3%	\$35,452