Investor Presentation

2018 Third Quarter

www.archcapgroup.com

Informational Statements

The Private Securities Litigation Reform Act of 1995 provides a "safe harbor" for forward looking statements. This presentation or any other written or oral statements made by or on behalf of Arch Capital Group Ltd. and its subsidiaries may include forward looking statements, which reflect our current views with respect to future events and financial performance. All statements other than statements of historical fact included in or incorporated by reference in this presentation are forward looking statements.

Forward looking statements can generally be identified by the use of forward looking terminology such as "may," "will," "expect," "intend," "estimate," "anticipate," "believe" or "continue" or their negative or variations or similar terminology. Forward looking statements involve our current assessment of risks and uncertainties. Actual events and results may differ materially from those expressed or implied in these statements. A non-exclusive list of the important factors that could cause actual results to differ materially from those in such forward-looking statements includes the following: adverse general economic and market conditions; increased competition; pricing and policy term trends; fluctuations in the actions of rating agencies and our ability to maintain and improve our ratings; investment performance; the loss of key personnel; the adequacy of our loss reserves, severity and/or frequency of losses, greater than expected loss ratios and adverse development on claim and/or claim expense liabilities; greater frequency or severity of unpredictable natural and man-made catastrophic events; the impact of acts of terrorism and acts of war; changes in regulations and/or tax laws in the United States or elsewhere; our ability to successfully integrate, establish and maintain operating procedures as well as integrate the businesses we have acquired or may acquire into the existing operations; changes in accounting principles or policies; material differences between actual and expected assessments for guaranty funds and mandatory pooling arrangements; availability and cost to us of reinsurance to manage our gross and net exposures; the failure of others to meet their obligations to us; and other factors identified in our filings with the U.S. Securities and Exchange Commission.

The foregoing review of important factors should not be construed as exhaustive and should be read in conjunction with other cautionary statements that are included herein or elsewhere. All subsequent written and oral forward looking statements attributable to us or persons acting on our behalf are expressly qualified in their entirety by these cautionary statements. We undertake no obligation to publicly update or revise any forward looking statement, whether as a result of new information, future events or otherwise.

Some non-GAAP measures of financial performance also may be referred to during this presentation. The reconciliation to GAAP and definition of operating income can be found in the Current Report on Form 8-K furnished to the SEC by Arch Capital Group Ltd. (the “Company”) in connection with its most recent earnings press release, and is also available on the Company's website: www.archcapgroup.com. From time to time, the Company posts additional financial information and presentations to its website, including information with respect to its subsidiaries, and investors and other recipients of this information are encouraged to check the website.

Specialty (Re)insurance Strategy

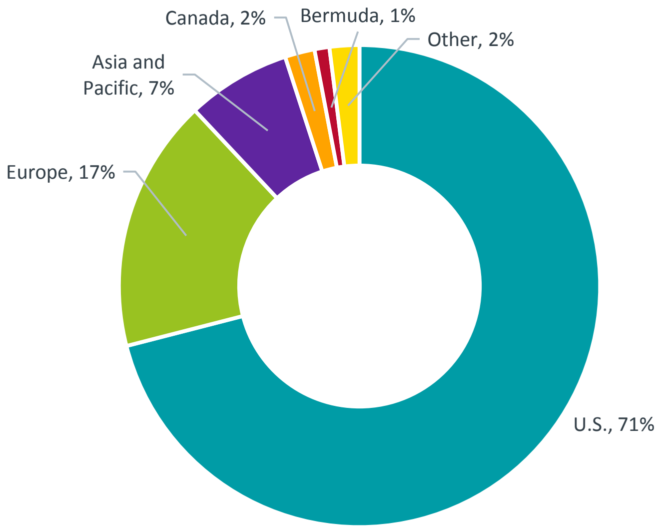
- **Arch operates leading Specialty P&C and mortgage insurance businesses across a wide range of geographies and products providing meaningful diversification and earnings stability**

Trailing Twelve Months Ended September 30, 2018

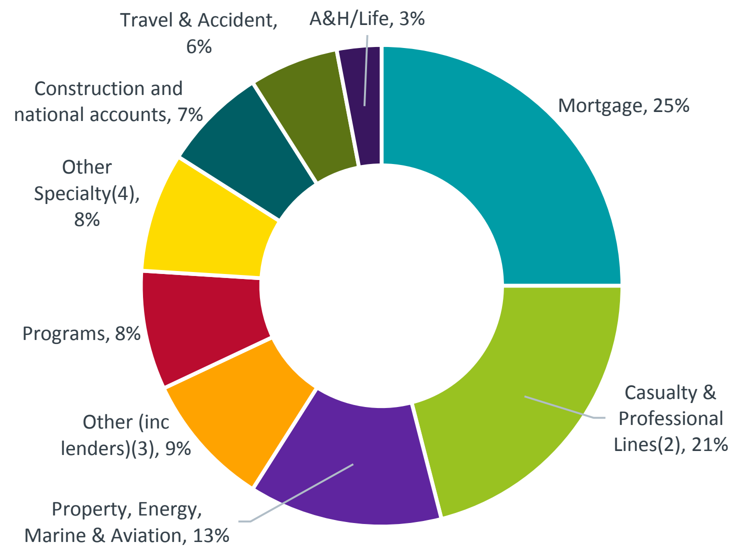
Gross premiums written ($6.3B) : 51% insurance, 28% reinsurance, 21% mortgage

Net premiums written ($4.6B) : 47% insurance, 28% reinsurance, 25% mortgage

Client Location[1]

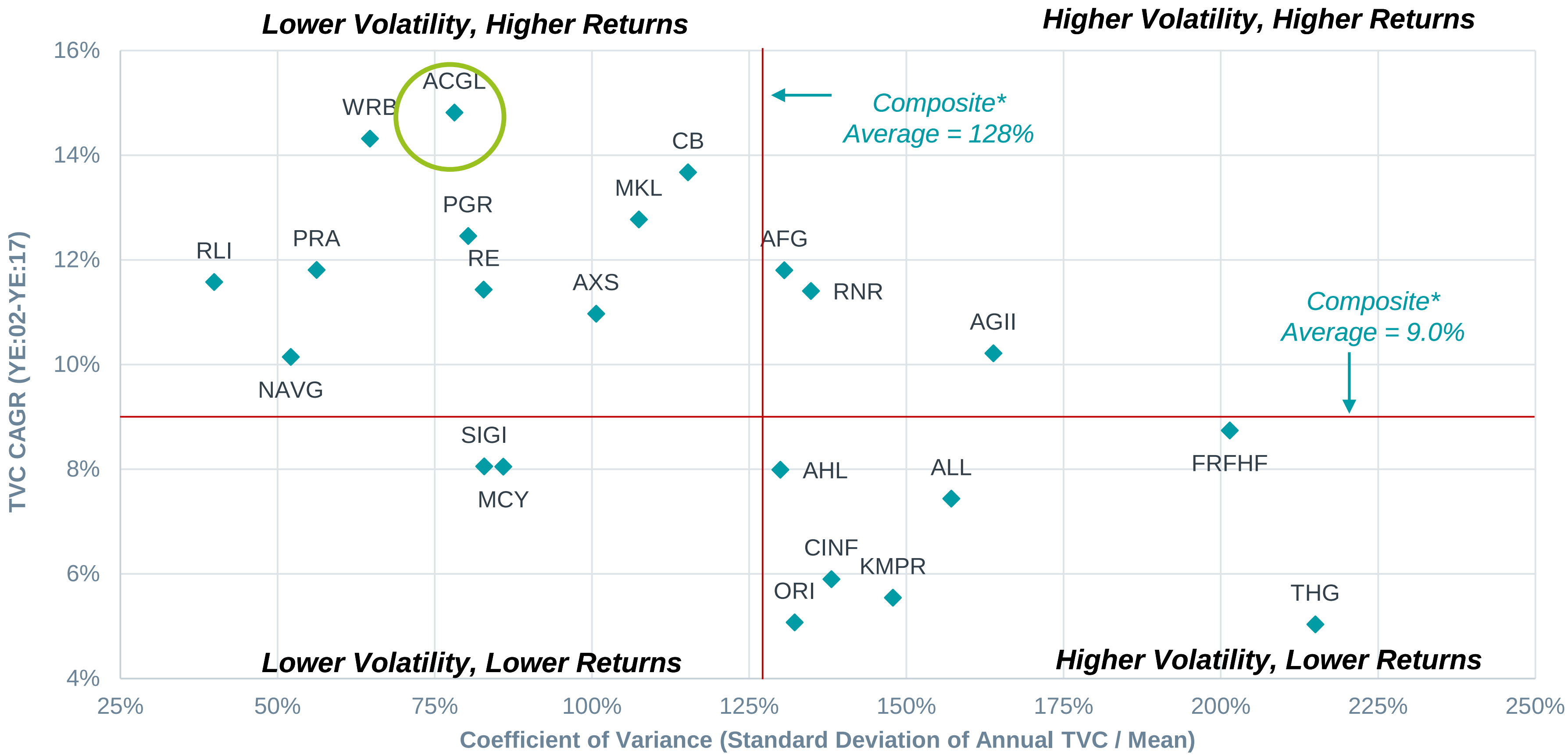


Line of Business[1]



[1] Based on net premiums written, excluding amounts attributable to the 'other' segment (Watford)
[2] Includes casualty, professional liability, executive assurance, healthcare, contract binding, and excess motor
[3] Includes insurance for lenders products, alternative markets, and other insurance and reinsurance
[4] Includes reinsurance for proportional motor, trade credit, surety, workers' compensation catastrophe, and other

Total Value Creation vs. Coefficient of Variation - Total Composite (12/31/02 - 12/31/17)



Source: Dowling & Partners Analysis
Excludes CNA (2.9%, 418%), Hartford (1.8%, 520%) and XL (2.2%, 393%) as coefficient of variation exceeds 250%; TVC is tangible book value per share growth plus accumulated dividends.
* Dowling's P&C Industry Composite of 25 Companies

Creating Shareholder Value

Arch

Generate superior risk adjusted returns

- Thorough risk assessment of underlying exposures
- Align executive compensation with long term performance
- Efficient capital management

Focus on underwriting

- Talent intensive, not people intensive
- Specialty lines platforms
- Active cycle management

Conservative balance sheet

- Minimize investment risk
- Cautious reserving philosophy
- Low financial leverage and strong liquidity

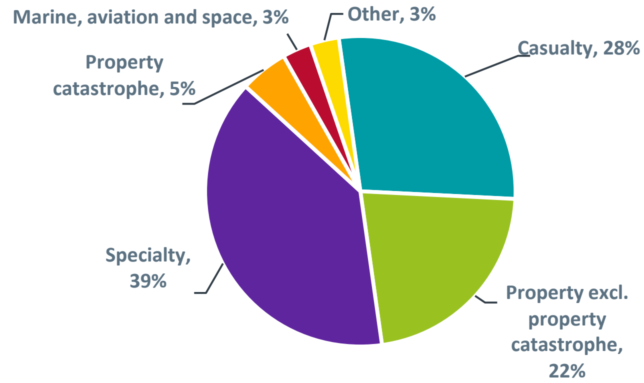
Property Casualty

- **Strong Underwriting and Risk Management Culture**
  - Talent intensive platform creates resiliency through market cycle
  - Manage the cycle by linking premium writings to those lines with better expected returns
  - Diversified by line of business and geography
  - In primary insurance, focus on smaller risks and low limit business produces more predictable and less volatile results over time
  - Centralized underwriting decisions in reinsurance limit risk aggregations
- **Innovation and Opportunism**
  - 27% of our 2017 Insurance GWP comes from new product and distribution initiatives commencing in 2009 or later
  - Early adopter of sidecar (Flatiron) and ILS to manage exposures
  - Investor in next generation reinsurer, Watford Re and run-off company, Premia Re

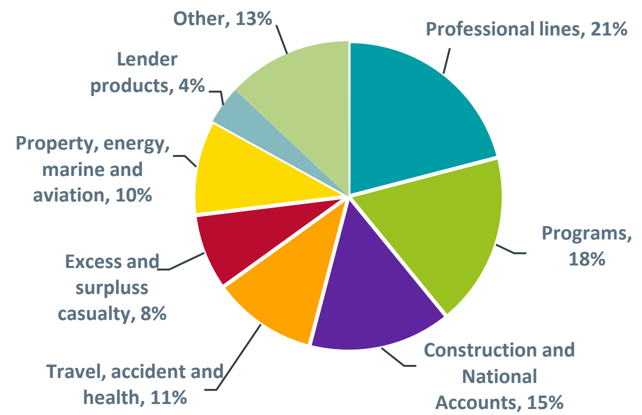
Net Premiums Written

TTM September 30, 2018

Reinsurance $1.3Bn



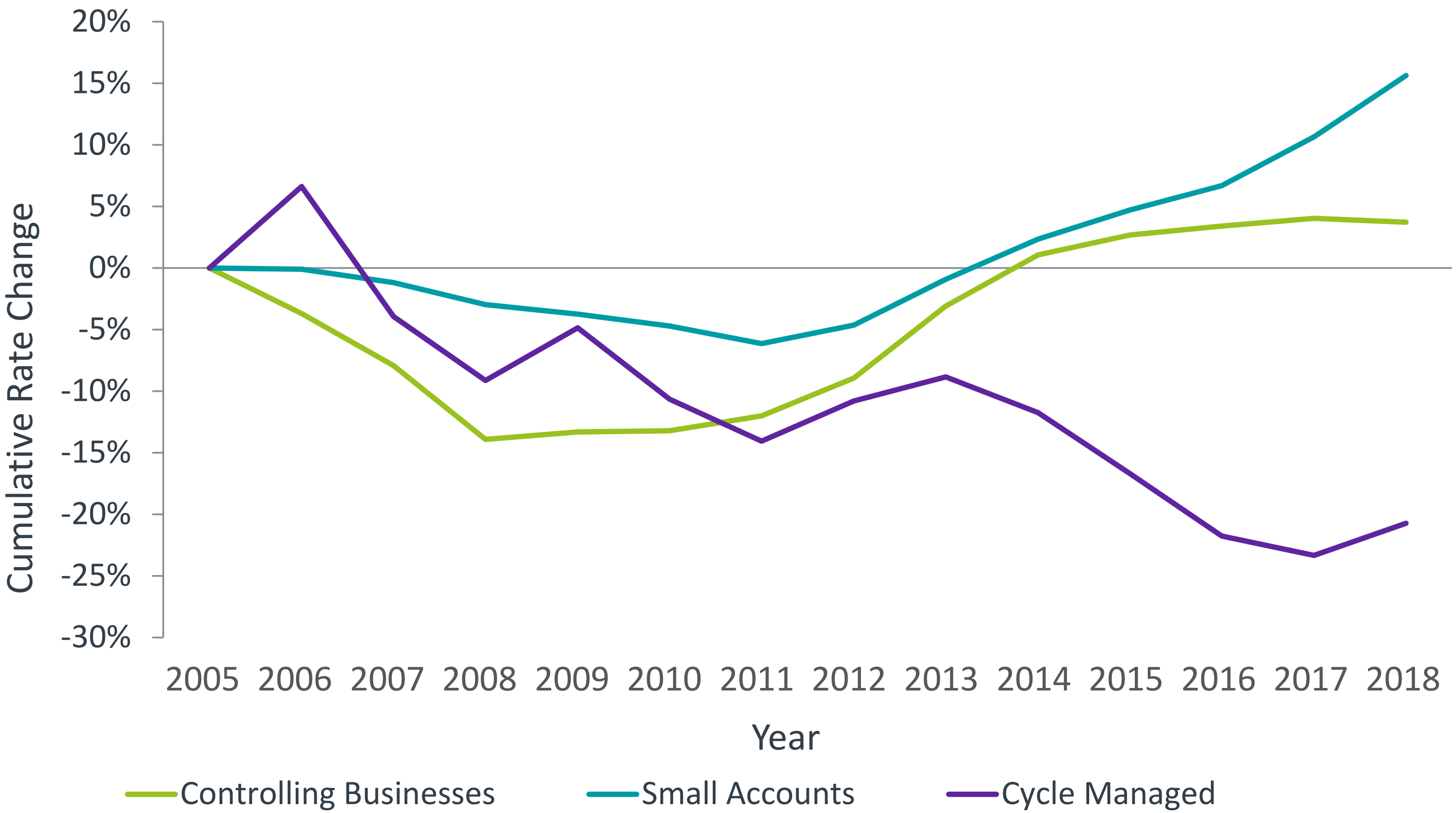
Insurance $2.2Bn



Insurance Segment Rate Changes

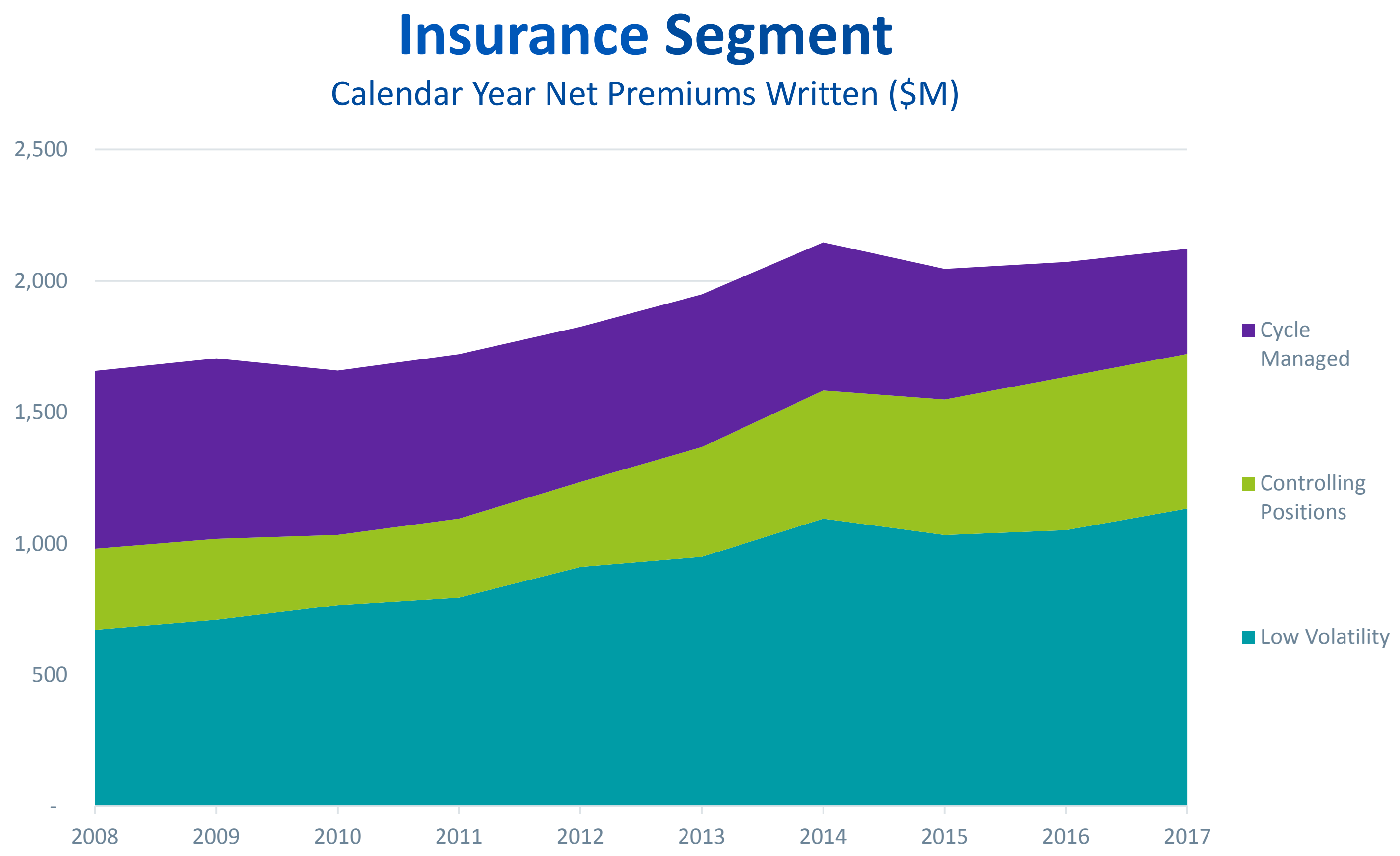
Arch

Cumulative Rate Change Trends – U.S.



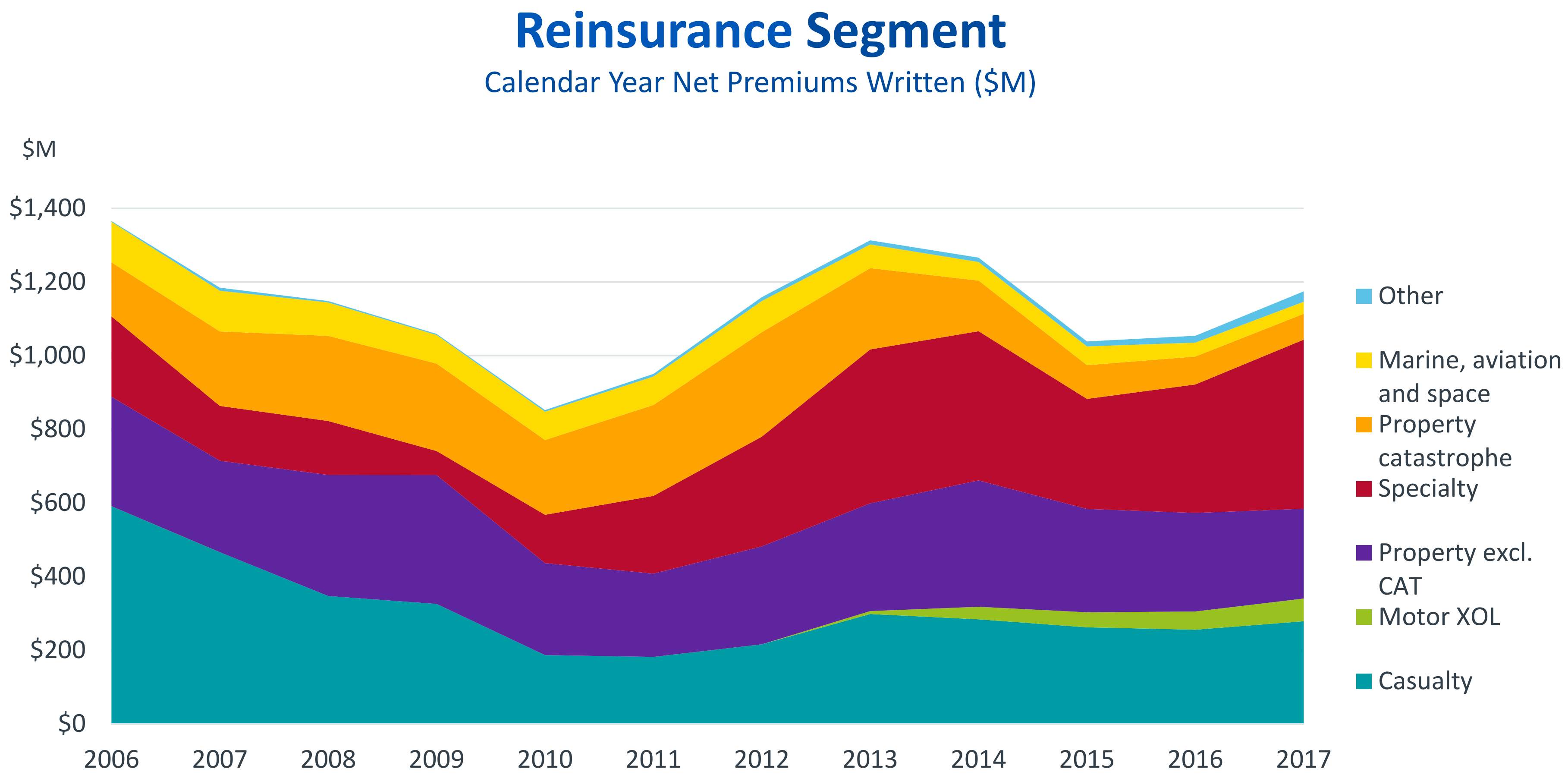
Small Accounts include Programs, A&H, Travel, Contract Binding. **Controlling Businesses** include Construction, Alt Markets, National Accts, Surety. **Cycle Managed** includes Property, Marine, Offshore, Casualty, High Capacity EA, Onshore Energy, Med Mal.

Cycle Management

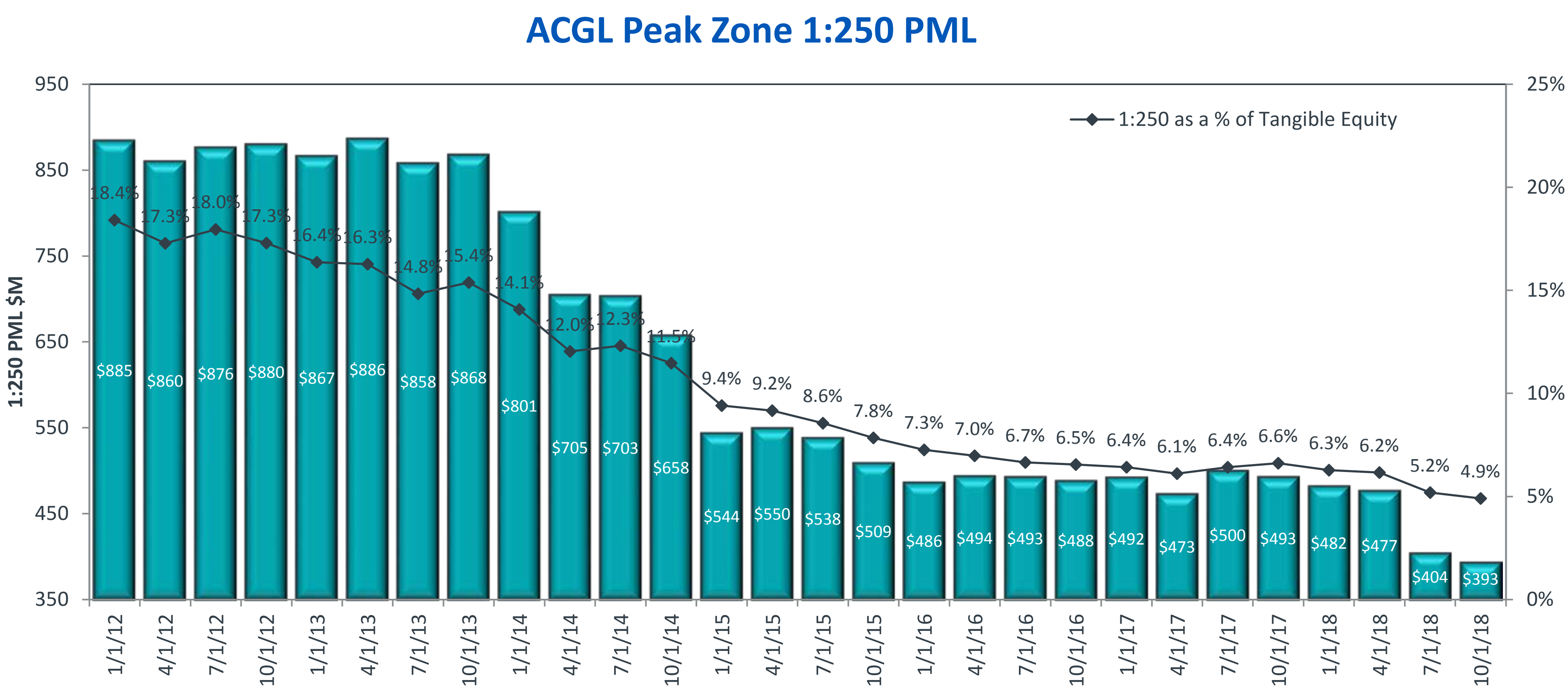


Low Volatility includes Programs, A&H, Travel, Contract Binding. **Controlling Positions** includes Construction, Alt Markets, National Accts, Surety. **Cycle Managed** includes Property, Marine, Offshore, Casualty, High Capacity EA, Onshore Energy, Med Mal.

Cycle Management

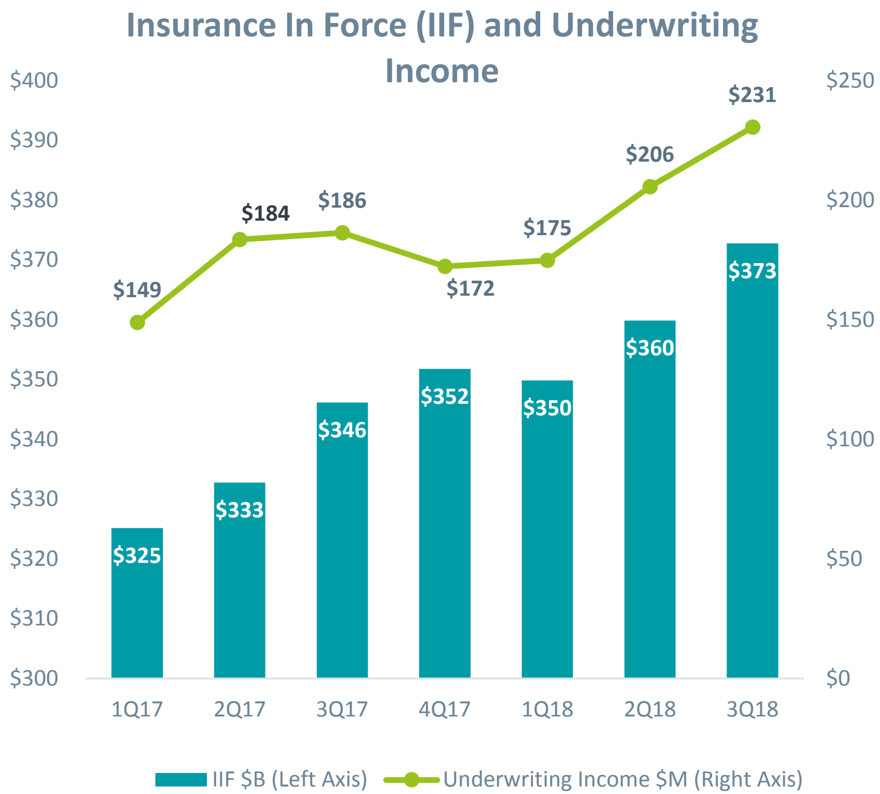


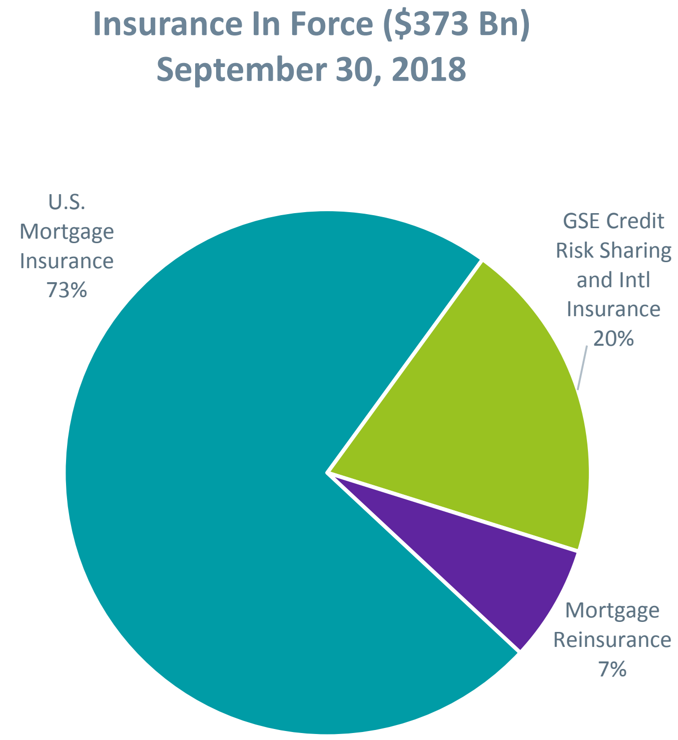
Catastrophe Risk - 1:250 Year Peak Zone



Mortgage Insurance Segment

- **Mortgage Insurance provides a recurring, multi-year revenue stream**
- **Arch is building a portfolio of diversified mortgage businesses**





Private Mortgage Insurance vs FHA/VA Origination

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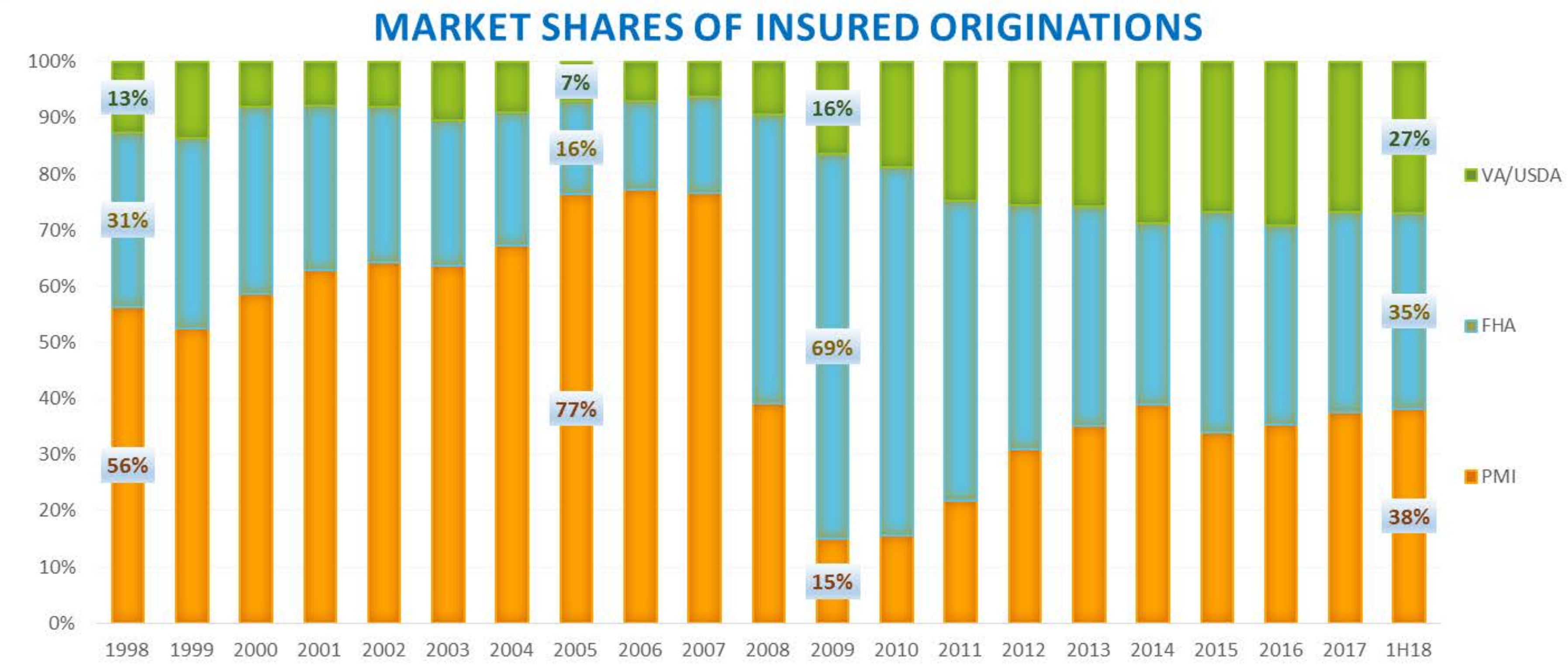
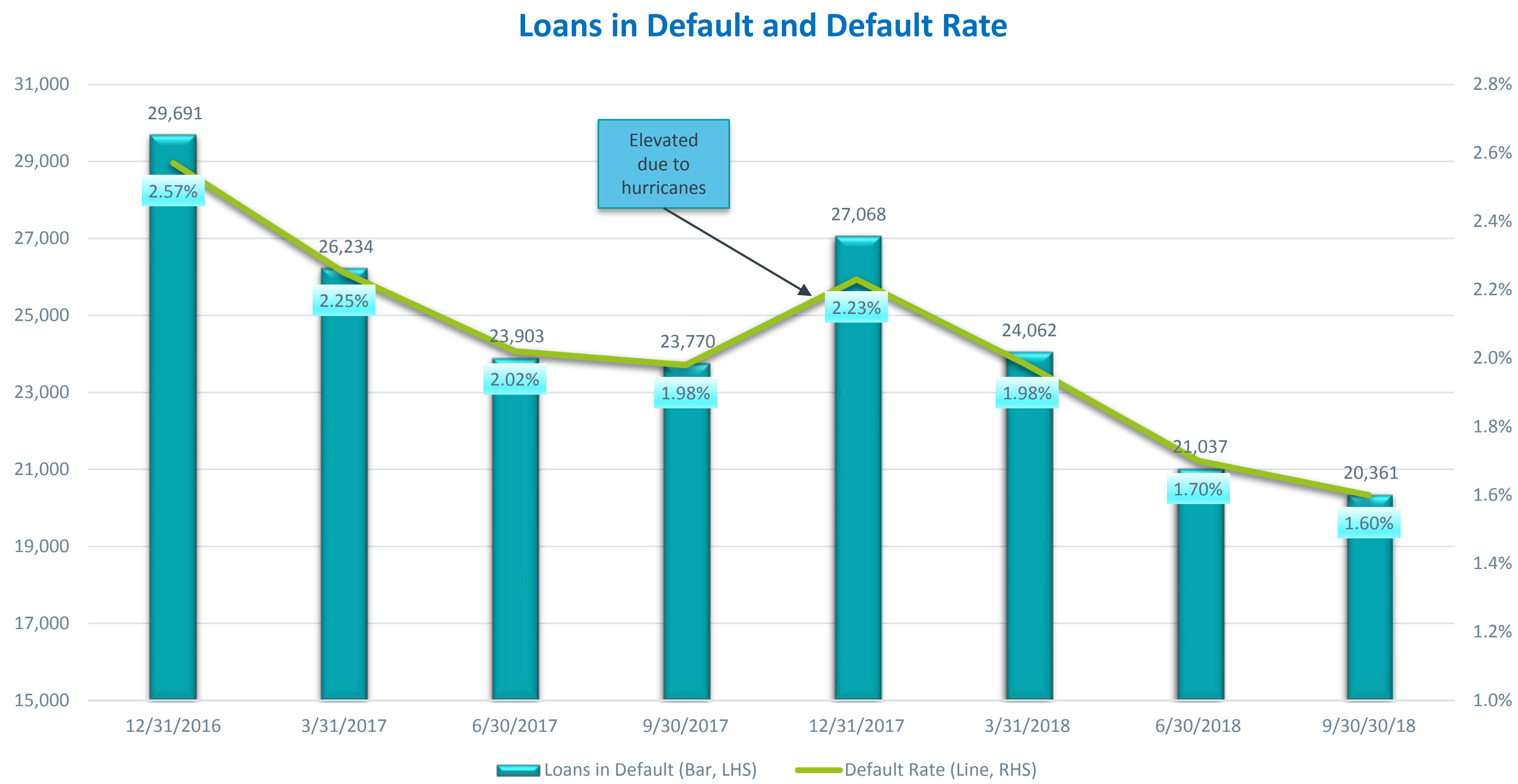
PMI's share of the insured mortgage market has increased significantly since 2009



Source: Inside Mortgage Finance

Arch MI US - Delinquency Rate Improving



Credit Risk Transfer (CRT)

- GSEs have increased the amount of limit insured through CRT, but the number of insurance participants has also increased
  - Arch was one of two participants on the first CRTs placed in 2013
  - As many as 17 companies have participated in recent CRTs

- GSEs have begun executing CRTs that are commitments to insure loans that the GSEs will acquire in the future

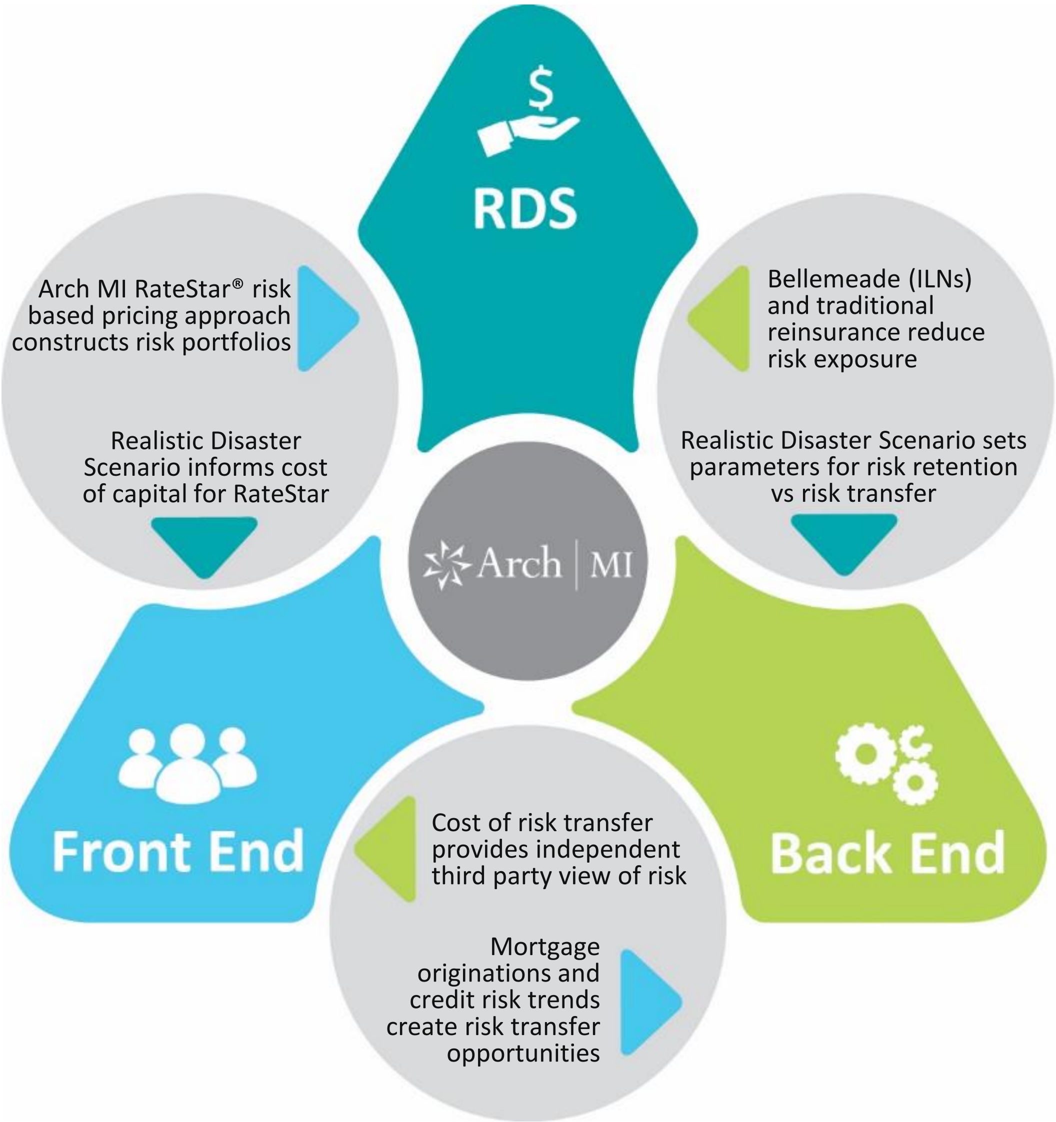
Excludes Watford Re

Key Terms of Bellemeade Re 2018-3

Cedants	▪ United Guaranty Residential Insurance Co. and Arch Mortgage Insurance Co.
Reinsurer	▪ Bellemeade Re 2018-3 Ltd. (Bellemeade Re), a special purpose reinsurer domiciled in Bermuda
Effective Date	▪ August 1, 2018
Maturity	▪ October 25, 2028 (optional call on October 25, 2023)
Coverage	▪ Bellemeade Re will reinsure cedants' RIF on a pool of loans that was predominately originated between January 1, 2018 and June 30, 2018. ▪ Bellemeade Re is responsible for all losses exceeding 2.25% of RIF subject to an initial limit of **$506 million** ▪ Reinsurance from Bellemeade Re will inure to the benefit of Arch Re Ltd
Allocation of Principal Repayments	▪ If the default rate is less than 5% and Class A's subordination is at least 9.6%, Class A's coverage will be reduced by its pro rata share of principal repayments on covered loans, and the remaining principal repayments on covered loans will be allocated to the most senior class with coverage remaining ▪ If the default rate is greater than 5% or Class A's subordination is less than 9.6%, all principal repayments on covered loans will be allocated to Class A (i.e., no amortization of bonds)
Allocation of Losses	▪ Covered losses are allocated sequentially to the most junior class with coverage remaining
Pricing	▪ Initial: M-1A (A rating by Morningstar): 120 basis points (bps), M-1B (BBB): 185 bps, M-2 (BB-): 275 bps, B-1 (B+): 390 bps (**duration weighted average: 231 bps assuming exercise of call**)
Security	▪ Bellemeade Re will maintain a trust account with funds equal to the coverage it provides to the cedants ▪ Eligible investments for trust are money market funds that invest directly in U.S. Treasuries and agencies

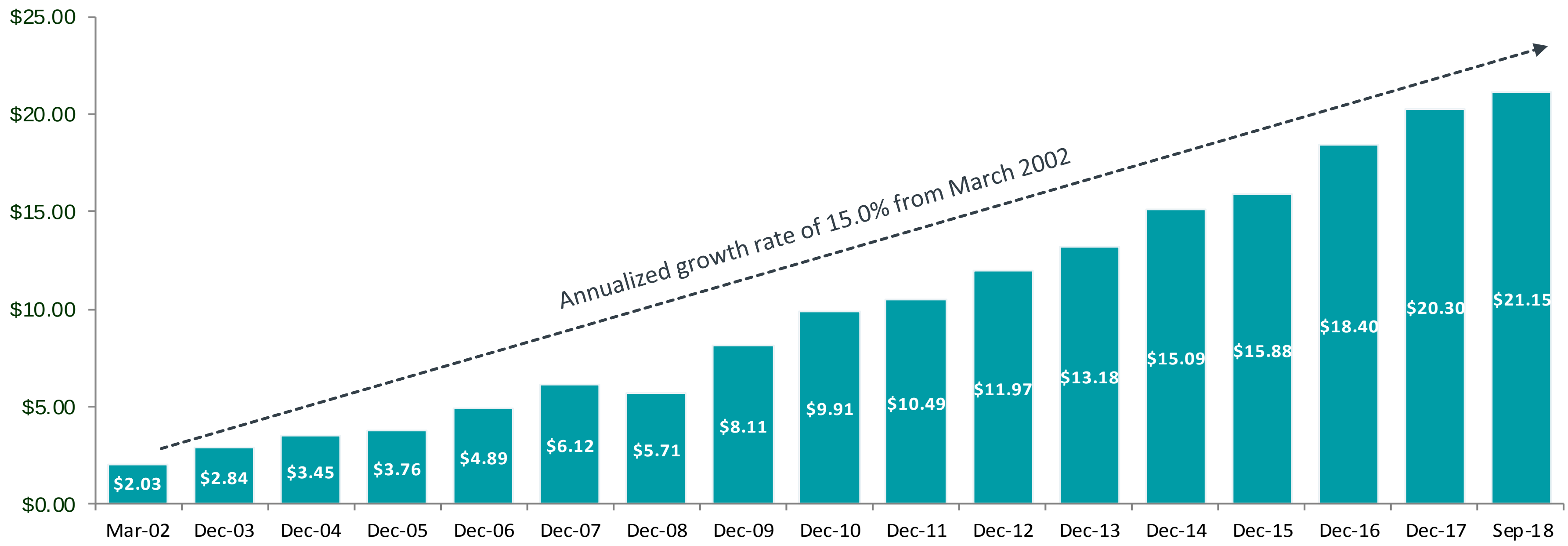
Differentiated Business Model

- Arch aggregates risk from diversified sources and then utilizes a variety of tools for managing mortgage and credit risk
- Arch seeks to limit risk exposure from a severe economic event (RDS) to protect capital
- Mortgage Segment is positioned for consistent attractive returns throughout the cycle



Financial Performance

Book value per common share[1]



Total Capitalization[2] ($Bn):	$1.0	$1.9	$2.5	$2.8	$3.9	$4.3	$3.8	$4.7	$4.9	$5.0	$5.6	$6.5	$7.0	$7.1	$10.5	11.3	11.2
Debt/Preferred to Total Capitalization[2]	0.0%	10.5%	11.8%	10.8%	7.7%	6.9%	10.4%	8.5%	8.2%	8.0%	7.2%	18.7%	17.3%	17.2%	28.7%	26.4%	23.5%

[1] Split adjusted as of September 30, 2018, excluding the effects of stock options and restricted stock units outstanding

[2] Available to Arch, including senior debt, preferred equity, common stock and AOCI.

Successful Cycle Management

- Flexible business mix well-positioned to manage through market cycles
- Experienced underwriting teams compensated for long term performance
- Disciplined risk management and conservative reserving philosophy
- Strong balance sheet with high-quality investment portfolio
- Long-term track record of consistent financial performance and risk adjusted returns

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