Investor Presentation

2021 Second Quarter

Informational Statements

The Private Securities Litigation Reform Act of 1995 ("PSLRA") provides a "safe harbor" for forward-looking statements. This release 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 release are forward-looking statements.

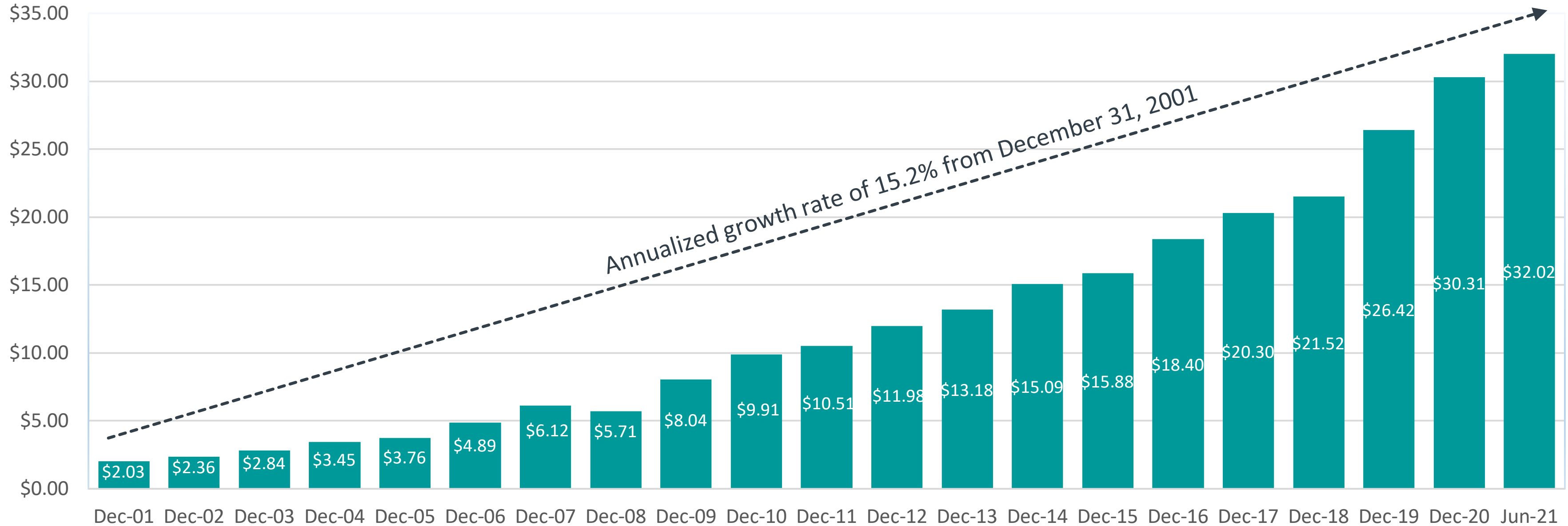
Forward-looking statements, for purposes of the PSLRA or otherwise, can generally be identified by the use of forward-looking terminology such as "may," "will," "expect," "intend," "estimate," "anticipate," "believe" or "continue" and similar statements of a future or forward-looking nature or their 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 effect of contagious diseases (including COVID-19); 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 consummate acquisitions and integrate the businesses the Company has 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; changes in the method for determining the London Inter-bank Offered Rate ("LIBOR") and the potential replacement of LIBOR and other factors identified in our filings with the U.S. Securities and Exchange Commission ("SEC").

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.

This presentation contains non-GAAP financial measures as defined by Regulation G of the rules of the SEC. Arch Capital Group Ltd. (the "Company") believes these non-GAAP measures provide users of its financial information meaningful and useful insight in evaluating the performance of the Company. Investors should consider non-GAAP measures in addition to, and not as a substitute for, or superior to, the comparable GAAP measures. 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 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.

Growth and Book Value

Book value per common share[1]



	Dec-01	Dec-02	Dec-03	Dec-04	Dec-05	Dec-06	Dec-07	Dec-08	Dec-09	Dec-10	Dec-11	Dec-12	Dec-13	Dec-14	Dec-15	Dec-16	Dec-17	Dec-18	Dec-19	Dec-20	Jun-21
Total Capitalization[2] ($B):	$1.0	$1.4	$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	$13.2	$15.8	$16.7
Debt/Preferred to Total Capitalization[2]	0.0%	0.0%	10.5%	11.8%	10.8%	16.1%	14.4%	18.9%	15.3%	14.9%	14.5%	13.0%	18.7%	17.3%	17.2%	28.7%	26.4%	22.5%	19.0%	22.1%	24.0%

[1] Excluding the effects of stock options and restricted stock units outstanding

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

Creating Shareholder Value Throughout The Cycle

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

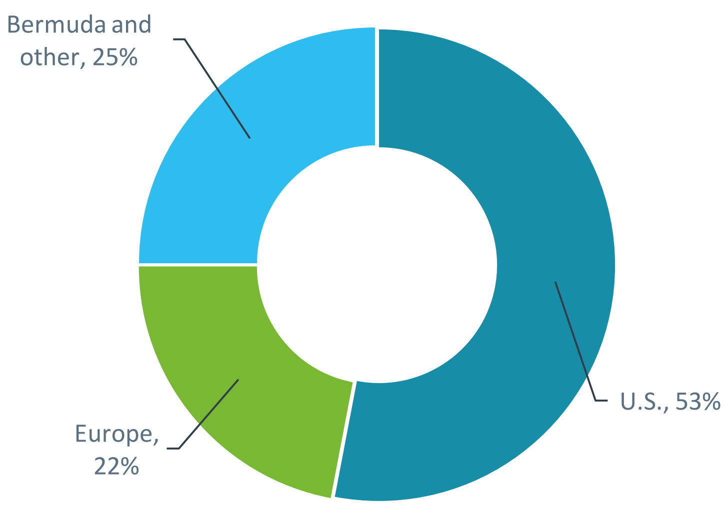
- Minimize investment risk
- Cautious reserving philosophy
- Low financial leverage and strong liquidity

Specialty (Re)insurance Strategy

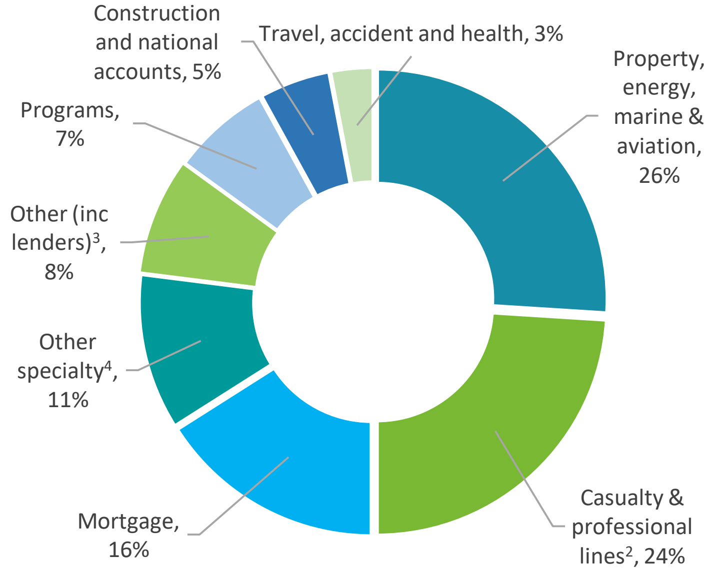
Arch operates leading Specialty P&C and Mortgage Insurance businesses across a wide range of geographies and products providing meaningful diversification and earnings stability.

Trailing Twelve Months Ended June 30, 2021			
Gross premiums written ($11.1B)	47% insurance	39% reinsurance	14% mortgage
Net premiums written ($7.9B)	46% insurance	38% reinsurance	16% mortgage

Underwriting Location[1]



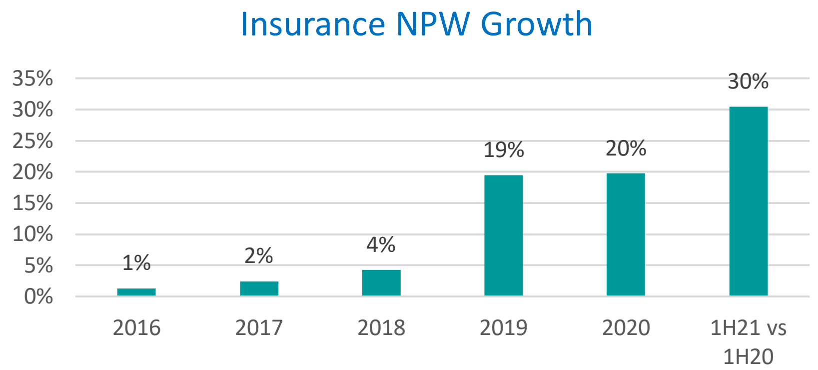
Line of Business[1]

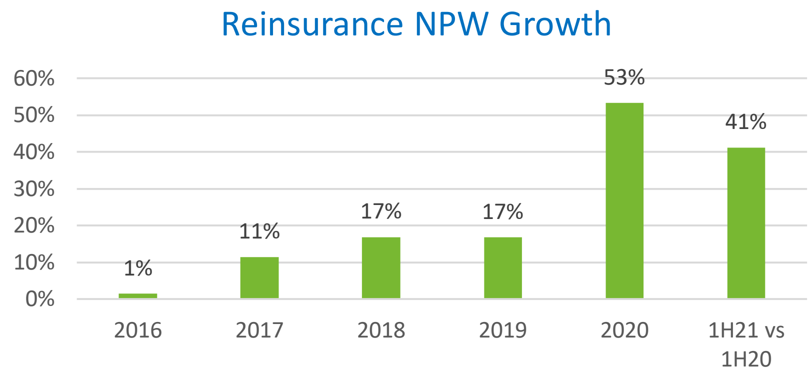


[1] Based on net premiums written, excluding amounts attributable to the ‘other’ segment (Watford)
[2] Includes casualty, professional liability, executive assurance, healthcare, contract binding, and excess motor
[3] Includes insurance for lenders products, alternative markets, and other insurance and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

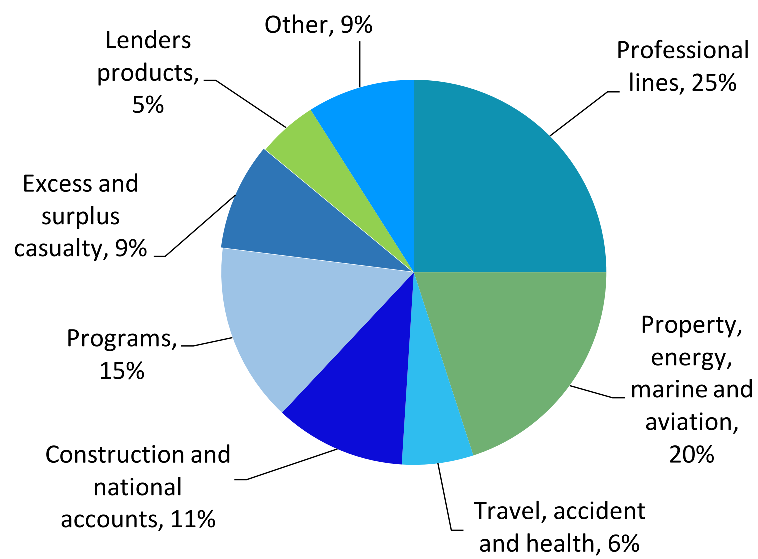
Improving underwriting conditions leading to growth

Calendar Year Net Premiums Written Growth (y/y change)

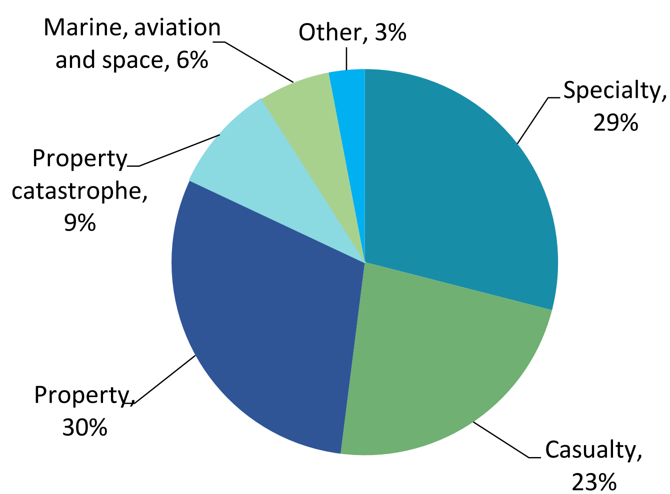




Insurance Net Premiums Written $3.6B*



Reinsurance Net Premiums Written $3.0B*

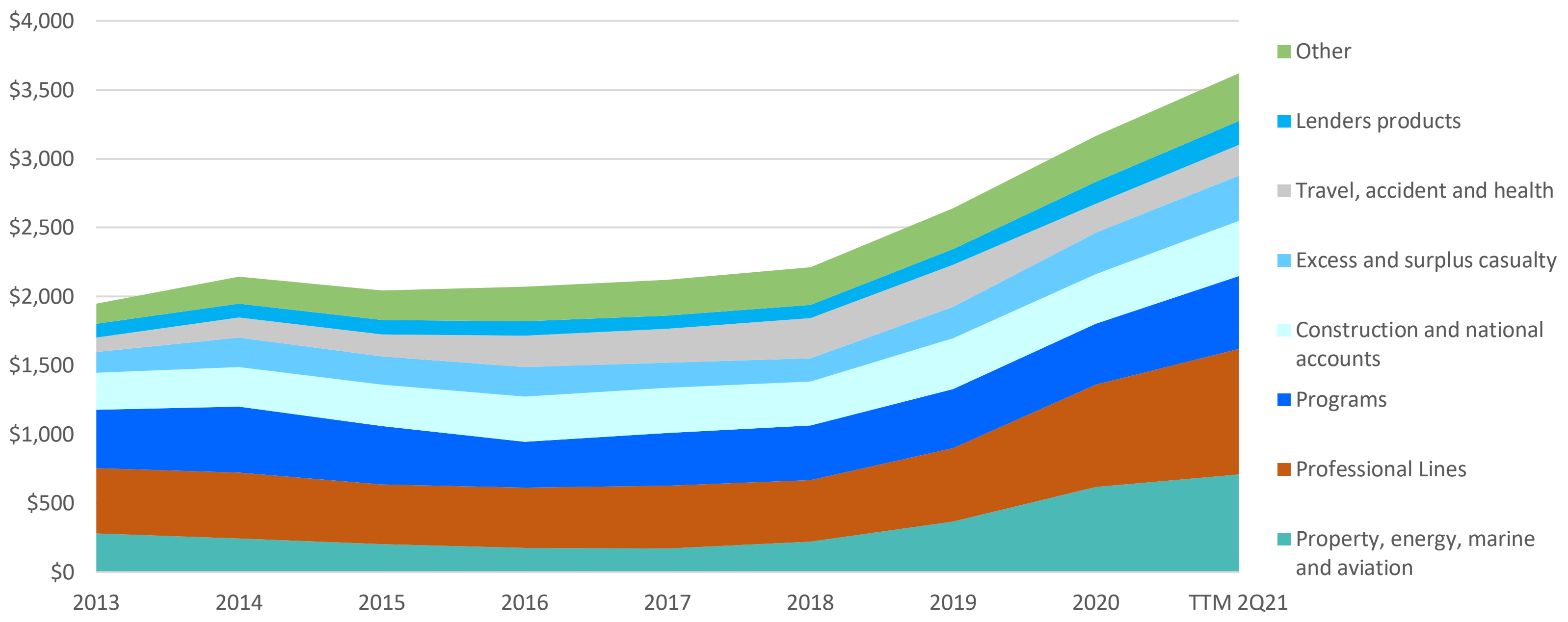


*Trailing twelve months ended June 30, 2021.

Specialty Insurance

Arch

Calendar Year Net Premiums Written by Line ($M)

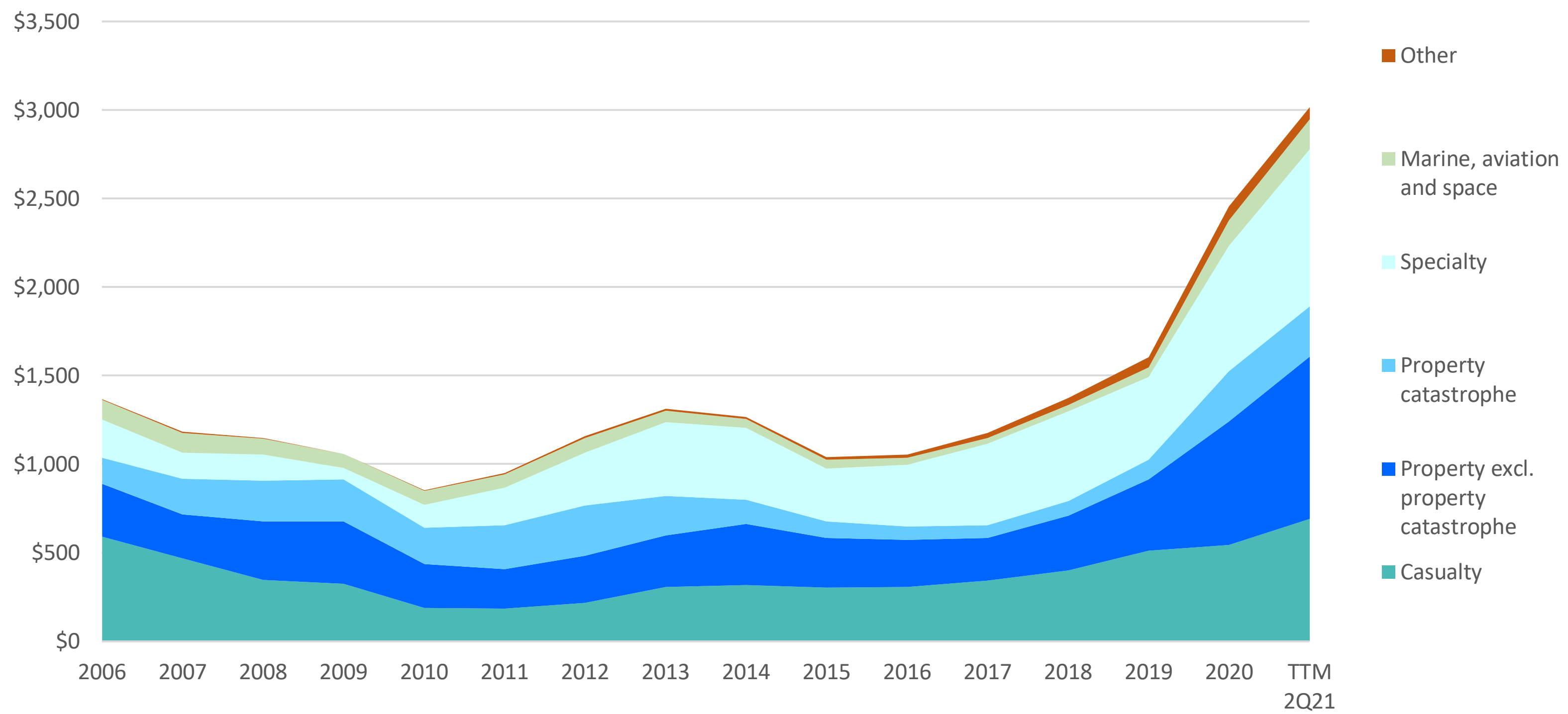


***Insurance Segment*: Professional Lines** includes professional liability, executive assurance and healthcare business. **Excess and surplus casualty** includes casualty and contract binding business. **Other** includes alternative markets, excess workers' compensation and surety business.

Flexing into a Hardening Market (Reinsurance)

Arch

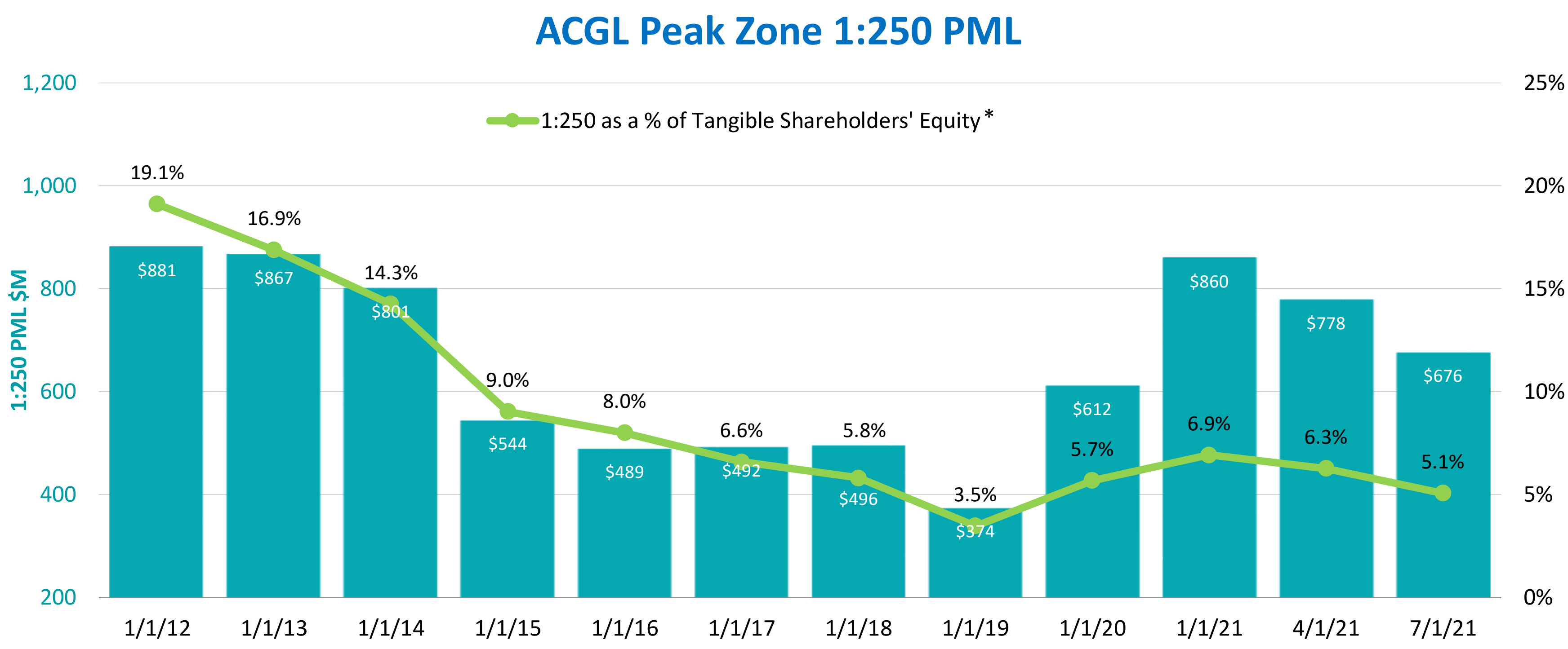
Calendar Year Net Premiums Written by Line ($M)



***Reinsurance Segment*: Casualty** includes executive assurance, professional liability, workers' compensation, healthcare, Motor XOL and other. **Specialty** includes proportional motor, surety, accident and health, workers' compensation catastrophe, agriculture, trade credit and other. **Other** includes life, casualty clash and other.

Catastrophe Risk – 1:250 Year Peak Zone

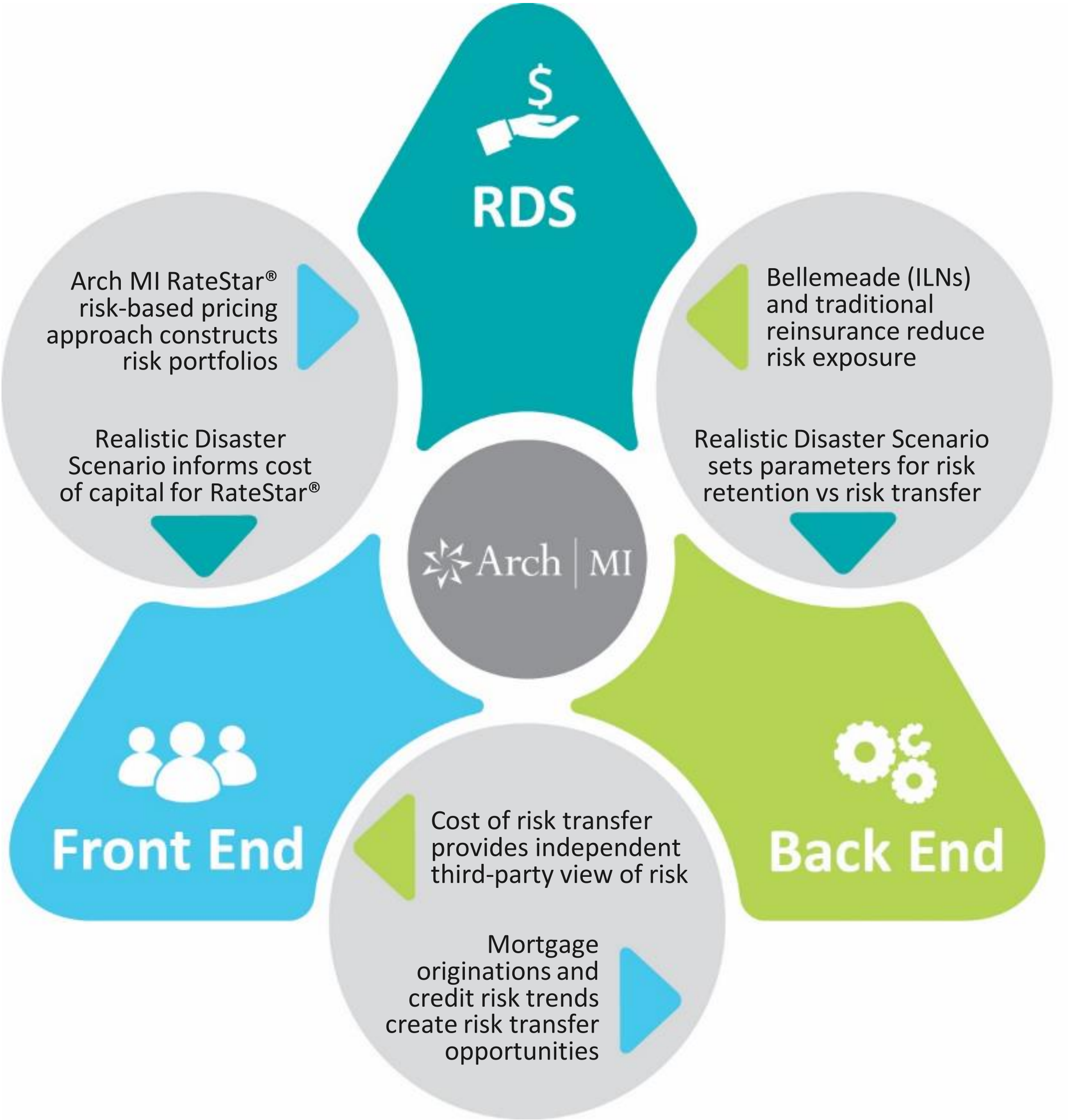
ACGL Peak Zone 1:250 PML



* Total shareholders' equity available to Arch less Goodwill and intangible assets

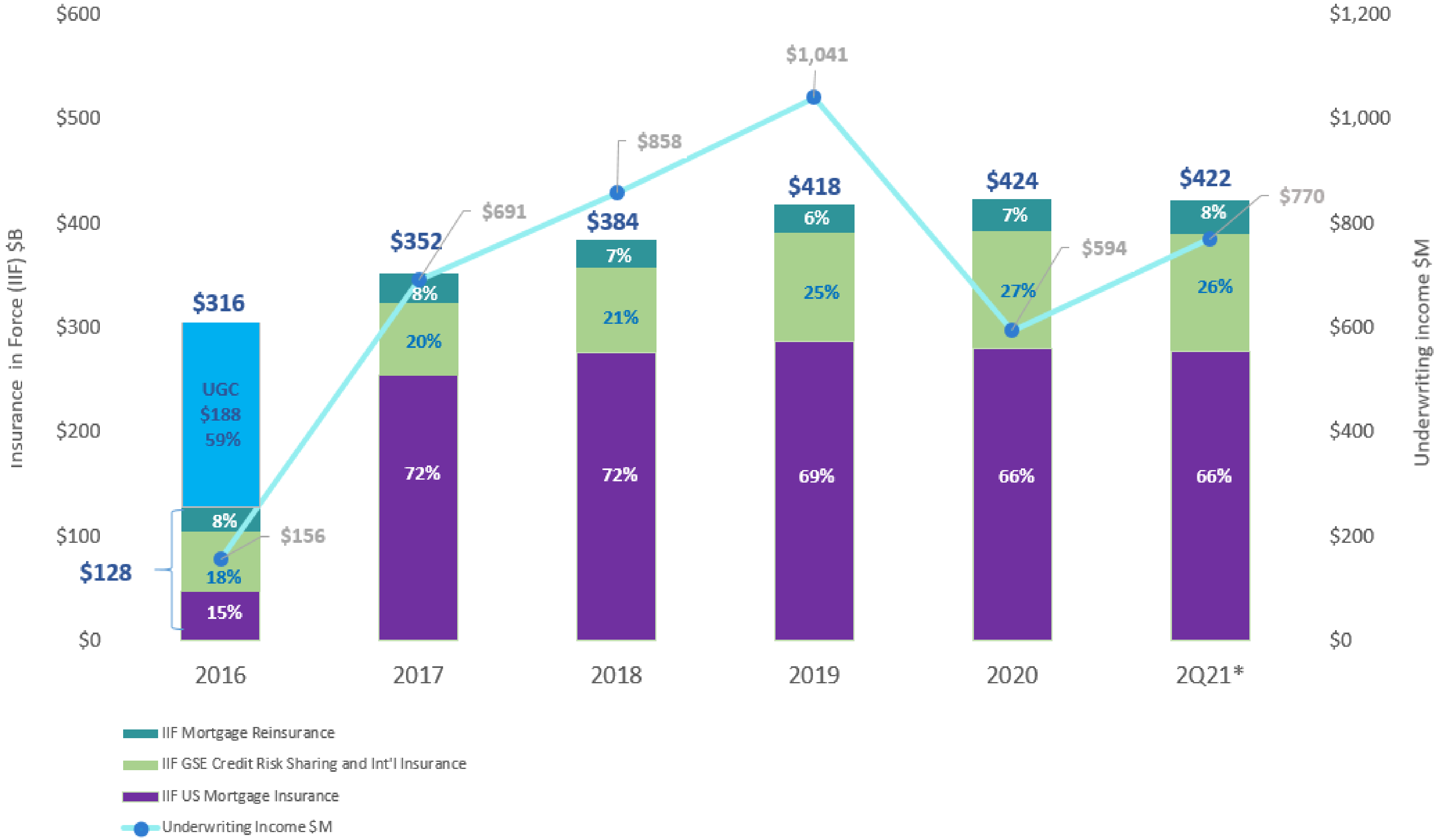
Differentiated Business Model

- 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.



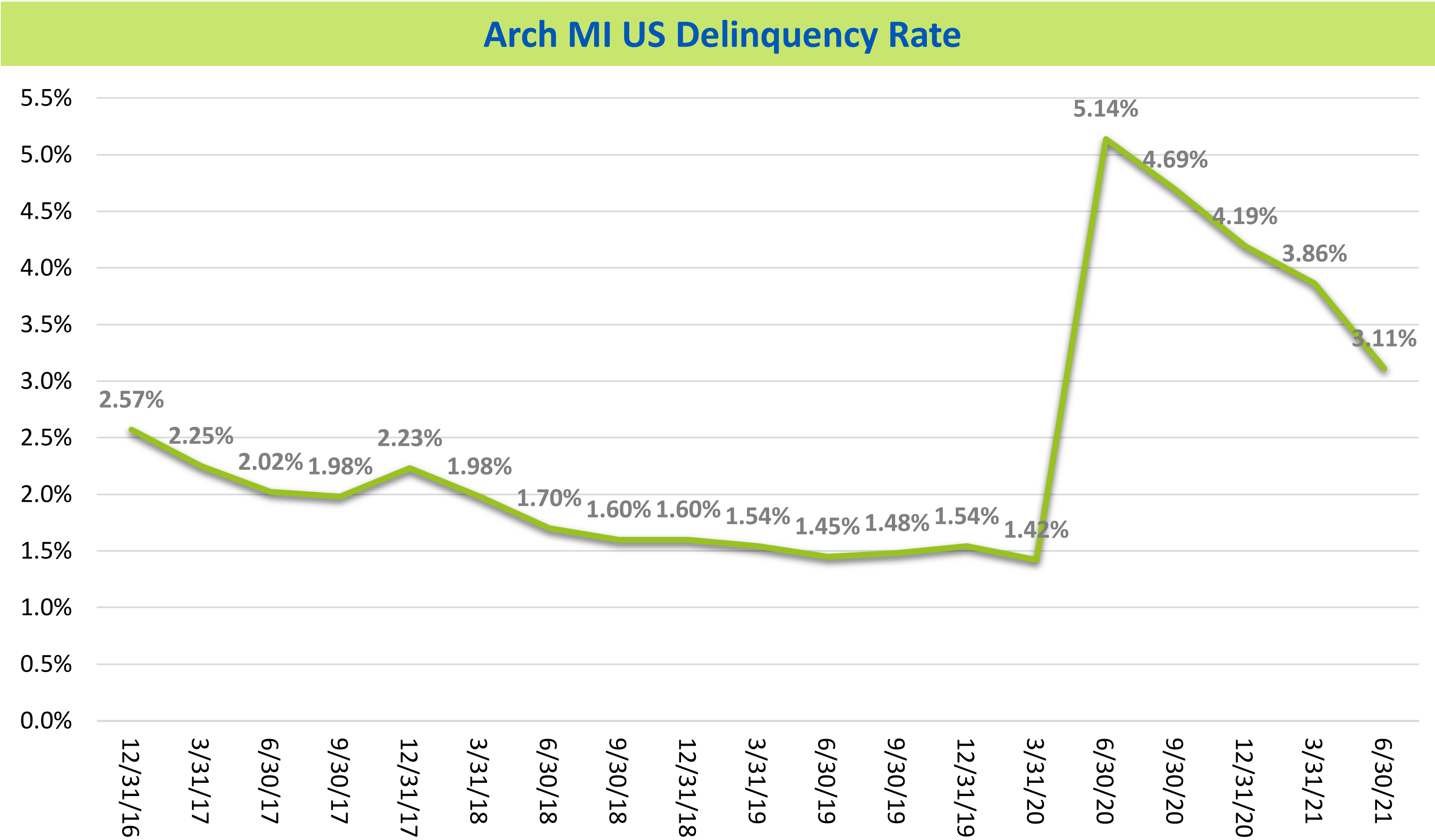
Mortgage Segment

Insurance In Force (IIF) and Underwriting Income



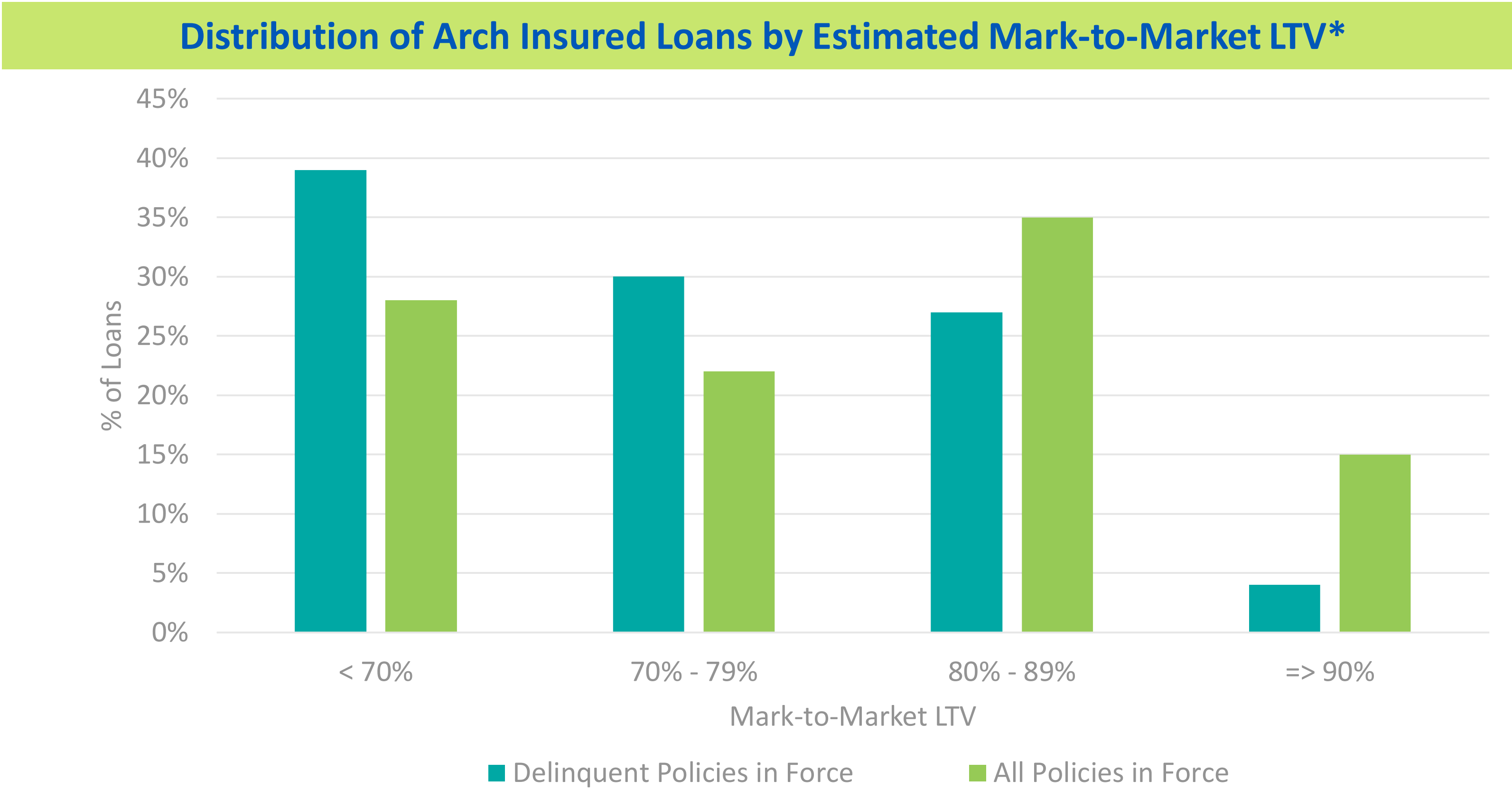
*Underwriting income for 2Q21 is for the trailing 12 months ended June 30, 2021

Pandemic Led Rise In US Delinquency Rate



As of 06/30/2021, PMIERs sufficiency ratio: 196% – Calculated as available assets divided by required assets as defined within PMIERs; $1.9 billion of excess available assets.

Equity Position of Delinquent Borrowers



An Estimated 96% of Arch Delinquencies Have at Least 10% Equity, Thanks in Part to Strong House Price Appreciation

*MTM LTVs are estimated based on amortization and house price appreciation at the MSA level. House price appreciation is based on the FHFA All-Transactions House Price Index. Data is as of 6/30/21, based on home price appreciation through 3/31/21.

Bellemeade Reinsurance Coverage

June 30, 2021 ($ in millions)	Bellemeade Re Insurance-Linked Notes Key Metrics [(1)*]												
	2017-1	2018-1	2018-3	2019-1	2019-2	2019-3	2019-4	2020-1 [(8)]	2020-2 [(8)]	2020-3 [(8)]	2020-4 [(8)]	2021-1 [(8)]	2021-2 [(8)]
Coverage dates for policies issued between [(2)]	**1/17-6/17**	**7/17-12/17**	**1/18-6/18**	**2005-2008** [(3)]	**7/18-12/18**	**2016**	**1/19-6/19**	**7/19-12/19** [(10)]	**1/20-5/20**	**6/20-8/20**	**7/19-12/19** [(10)]	**9/20-11/20**	**12/20-3/21**
Initial risk in force	7,362	7,489	7,970	5,944	8,872	9,284	7,216	10,571	7,187	6,951	8,121	8,581	8,105
Current risk in force	1,974	2,448	2,208	2,482	2,494	3,606	2,675	5,856	5,365	6,163	5,400	8,212	7,962
Initial coverage at issuance date (ILN)	368	374	506	342	621	701	577	450	423	418	321	580	523
Current coverage (ILN)	146	250	303	219	398	528	469	19	326	418	268	580	523
Initial coverage at issuance date (traditional XOL)	-	-	-	-	-	-	-	79	26	34	16	64	93
Current coverage (traditional XOL)	-	-	-	-	-	-	-	-	3	34	13	64	93
Arch's retention layer	166	169	179	208	222	232	162	793	252	174	150	172	154
Claims paid under Arch's retention layer	5	3	4	20	3	1	1	-	-	-	-	-	-
Incurred losses under Arch's retention layer	41	46	53	106	65	55	49	45	20	10	12	6	1
Arch remaining retention, net of incurred losses	125	123	126	102	157	177	113	748	232	164	138	166	153
Delinquency % [(4)(9)]	5.58%	5.38%	6.94%	8.35%	7.95%	4.38%	6.00%	2.78%	1.33%	0.65%	0.94%	0.41%	0.13%
Delinquency trigger % [(5)]	5.00%	5.00%	5.00%	8.00%	5.00%	4.00%	5.00%	N/A	N/A	N/A	N/A	N/A	N/A
Initial attachment % (cumulative losses as % of RIF)	2.25%	2.25%	2.25%	3.50%	2.50%	2.50%	2.25%	7.50%	3.50%	2.50%	1.85%	2.00%	1.90%
Initial detachment % (cumulative losses as % of RIF)	7.25%	7.25%	8.60%	9.25%	9.50%	10.05%	10.25%	12.50%	9.75%	9.00%	6.00%	9.50%	9.50%
Current attachment % [(6)] (cumulative losses as % of RIF)	8.39%	6.88%	8.12%	8.38%	8.89%	6.44%	6.07%	13.54%	4.69%	2.82%	2.78%	2.09%	1.93%
Current detachment % [(7)] (cumulative losses as % of RIF)	15.77%	17.10%	21.82%	17.21%	24.86%	21.08%	23.59%	13.86%	10.81%	10.15%	8.00%	9.93%	9.67%

* Numbers may not foot due to rounding.

See notes on accompanying page.

Bellemeade Reinsurance Coverage

(1) Through June 30, 2021, including the initial coverage of $312M provided directly by a panel of reinsurers through traditional excess of loss agreements, Arch Mortgage Insurance Company ("AMIC") and United Guaranty Residential Insurance Company ("UGRIC") (together, "Arch MI" or the "Company"), has entered into various aggregate excess of loss mortgage reinsurance agreements with special purpose reinsurance companies (“SPRs”) domiciled in Bermuda. The SPRs are not subsidiaries or affiliates of the Company. Based on applicable accounting guidance, the Company does not consolidate the SPRs in its consolidated financial statements.

(2) An immaterial number of loans in each transaction have coverage dates outside of the indicated ranges.

(3) Policies between 2005 and 2008 were issued by UGRIC; Policies through 2015 were issued by both UGRIC and AMIC.

(4) Represents the percentage of risk in force that is 60 or more days delinquent.

(5) When delinquency triggers are reached, then bond amortization stops and coverage remains constant.

(6) Represents the amount of cumulative losses as a percentage of current risk in force that the Company retains prior to the Bellemeade notes absorbing

(7) Represents the amount of cumulative losses as a percentage of current risk in force that must be reached before the Company starts absorbing losses

(8) The Bellemeade 2020-1, 2020-2, 2020-3, 2020-4, 2021-1, and 2021-2 delinquency triggers are not driven by a static delinquency percentage, but occur when the average sixty-day plus delinquency amount from the prior three periods is equal to or exceeds 75% of all subordinate tranches.

(9) The information regarding delinquencies and cures is reported to the Company from loan servicers. Delinquency reporting, particularly on a monthly basis, may be affected by several factors, including the date on which the report is generated and transmitted to Arch MI, updated information submitted by servicers, and by the timing of servicing transfers.

(10) There is significant overlap among the certificates of insurance covered by Bellemeade 2020-1 and 2020-4; however, the coverage provided by each of these notes is mutually exclusive.

Arch MI US – Reinsurance Coverage by Vintage

As of June 30, 2021 ($ in millions)

Vintage	Gross RIF	Est. RIF Ceded to QS	RIF net of QS (1)	Est. Bellemeade Coverage as % of RIF net of QS	Bellemeade Reference Pool (2)
2011 and prior	$2,838	$ -	$2,838	79.1%	$2,247
2012	587	-	587	25.0%	147
2013	1,563	-	1,563	4.5%	70
2014	1,729	742	987	0.8%	8
2015	3,017	1,221	1,796	0.6%	11
2016	4,958	1,177	3,781	95.1%	3,594
2017	4,574	95	4,480	99.6%	4,460
2018	4,827	85	4,742	99.4%	4,714
2019	8,727	101	8,625	99.3%	8,567
2020	23,316	1,082	22,233	100.0%	22,223
2021	13,451	1,774	11,677	46.3%	5,406
Total *	**$69,587**	**$6,277**	**$63,310**	**81.3%**	**$51,446**

* Numbers may not foot due to rounding.

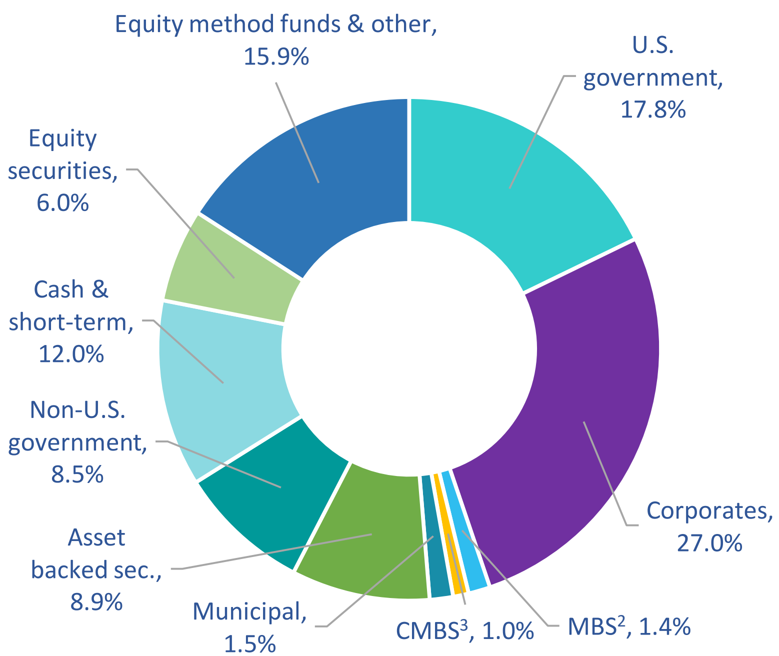
(1) RIF net of QS and excess of loss reinsurance is $55,557.

(2) There is convergence among Bellemeade 2020-1 and Bellemeade 2020-4 in the context of underlying policies and risk in force; however, the coverage provided by these notes is distinct and non-redundant. Bellemeade 2020-4 provides reinsurance coverage on tranches B-2 and B-3 of the Bellemeade 2020-1 reinsurance agreement. The Bellemeade 2020-4 reinsurance coverage is designed to detach prior to the attachment of the most junior reinsured coverage level under the Bellemeade 2020-1 transaction.

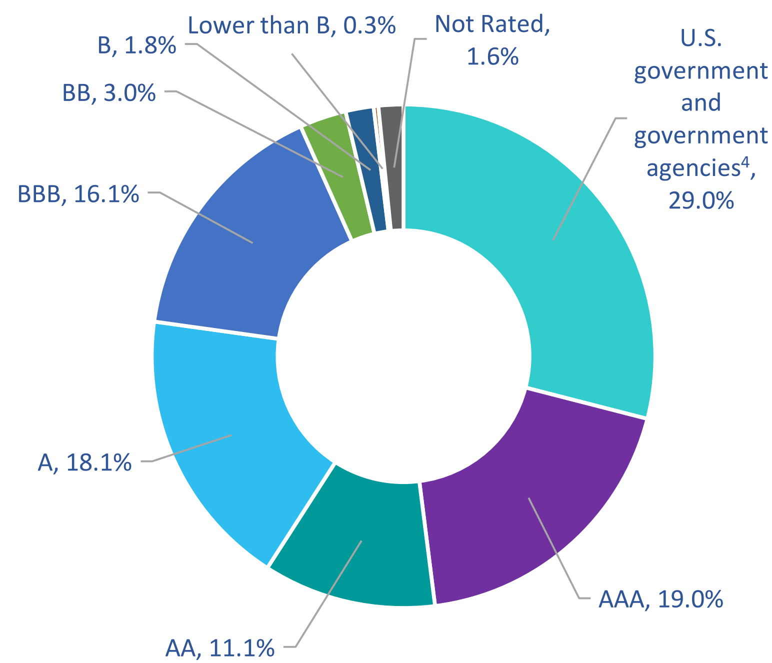
Our Investment Strategy

- Arch manages the portfolio conservatively to protect our reserves on an economic basis and ensure our ongoing ability to pay claims.
- Arch's investment approach is to improve the Company's Return on Equity while avoiding undue risk. We do this by focusing on total return with thoughtful target allocation and periodic rebalancing.

Invested Assets - $27.3B[1]



Fixed Maturity by Rating- $18.0B[1]



[1] Excluding amounts attributable to the 'other' segment (Watford)
[2] MBS = Mortgage backed securities
[3] CMBS = Commercial mortgage backed securities
[4] Includes U.S. government – sponsored agency MBS and agency CMBS.

Our ESG Impact Areas and Material ESG Topics

We focus our ESG efforts around integrating sustainability-driven thinking and decision-making into **five core impact areas** of our company. By organizing our strategy around these areas, we seek to encompass Arch's collaborative ESG successes and sustainability progress across our operations in our annual reporting to shareholders, rating agencies and the public.

-Benefits & Employee Wellbeing -Diversity & Inclusion -Career Development	-ERM -Ethics & Code of Business Conduct -Business Continuity -Privacy & Data -Responsible Supply Chain -Operational Sustainability	-Underwriting ESG Integration -Thermal Coal Policy -Sustainable Insurance Solutions	-ESG Aware Statement & Approach -Impact Investments	-Corporate Giving -Employee Giving & Volunteering

Our Environmental, Social & Governance Strategy

Our ESG Reporting

A major element of our ESG strategy is our annual reporting. We believe in the value of transparency around our sustainability initiatives, and we are committed to sharing our progress to relevant stakeholders on an annual basis across the following three reports:

Annual Sustainability Report:

Intended for all stakeholders and the general public. This report describes our comprehensive ESG narrative and strategy. In 2020, this report includes an overview of Arch's response to the COVID-19 pandemic and support of the social justice movement.

Sustainability Accounting Standards Board (SASB) Report:

Intended for investors, SASB has disclosures around the financial impacts of sustainability.

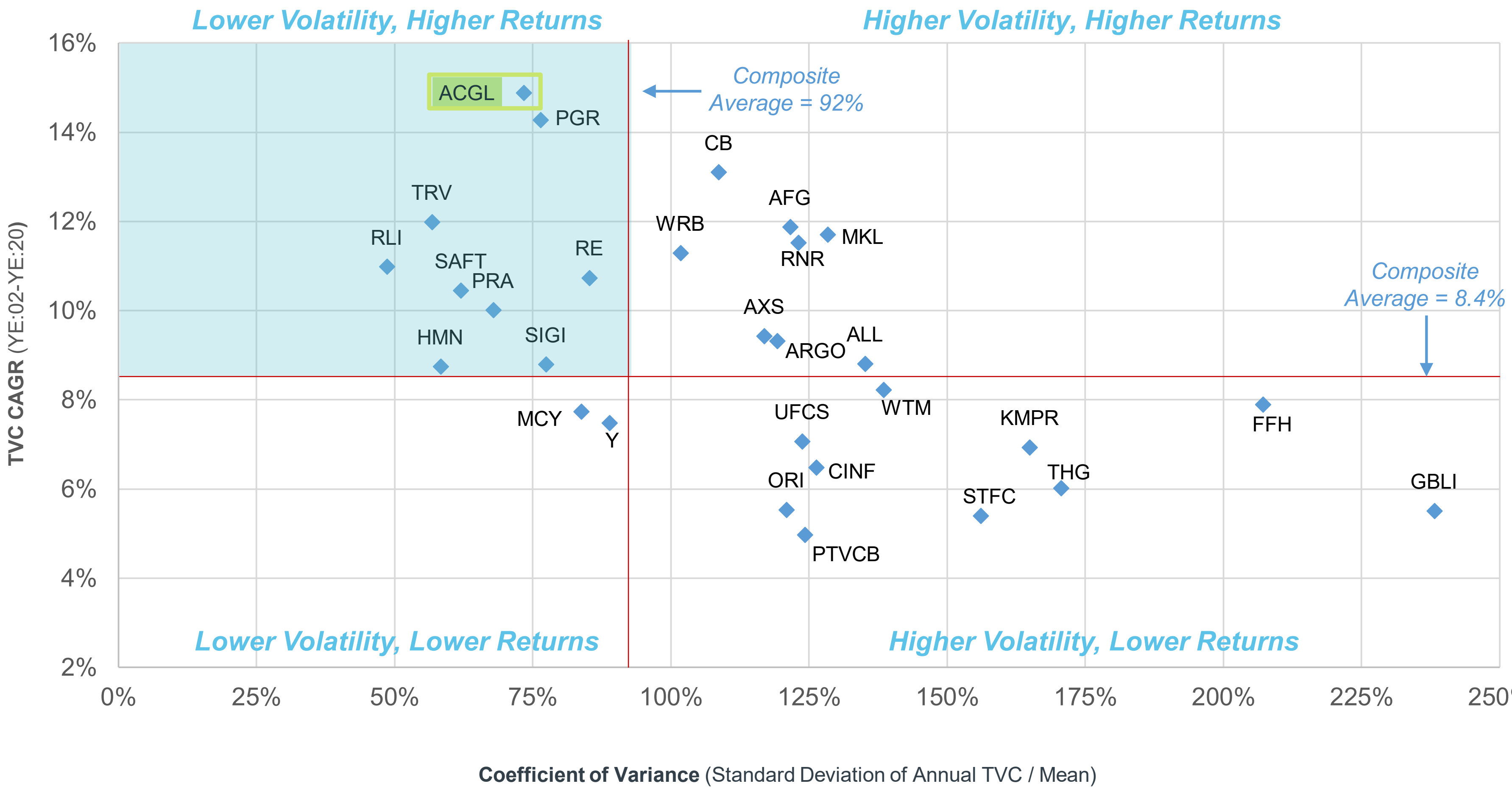
Task Force on Climate-Related Financial Disclosures (TCFD) Report:

Aligned with the framework set forth by the Task Force on Climate-related Financial Disclosures, this report is intended for investors, regulators, and other significant stakeholders.

Higher, More Consistent, Historical Returns

Total Value Creation vs. Coefficient of Variation – Total Composite

12/31/2002 – 12/31/2020



Excludes CNA (3.5%, 347%), Hartford (3.0%, 361%), MGIC (-3.7%, 576%) and Radian (-1.3%, 625%) as coefficient of variation exceeds 250%; **Source:** D&P Analysis

Arch

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