

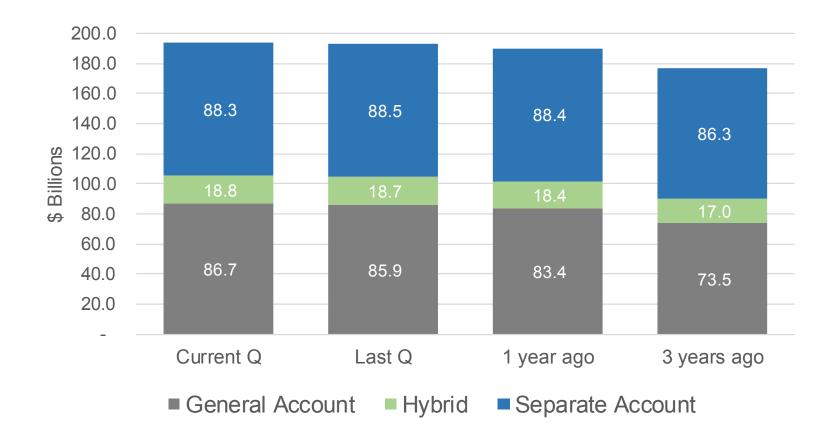
# BOLI INDUSTRY ANALYTICS & ALLOCATIONS

**Proprietary and Confidential – For Discussion Purposes Only** 

2018-Q4

# BANK CALL REPORT BOLI BREAKDOWN

#### Banks reported \$193.8 billion of BOLI in 2018-Q4, of which \$88.3 billion was SA.



### STUDY PURPOSE AND BACKGROUND

Our study attempts to track how SA BOLI is allocated over time.

- Gathered SA BOLI AUM data is categorized into portfolio types
  - Capital Efficient / Target RW
  - High Yield
  - Credit
  - Core Fixed Income

- MBS / Securitized (ABS / CMBS)
- CLO / Bank Loan
- Short Duration
- Government
- Portfolio types represent full portfolio MVs and do not look through to the holdings sector weights

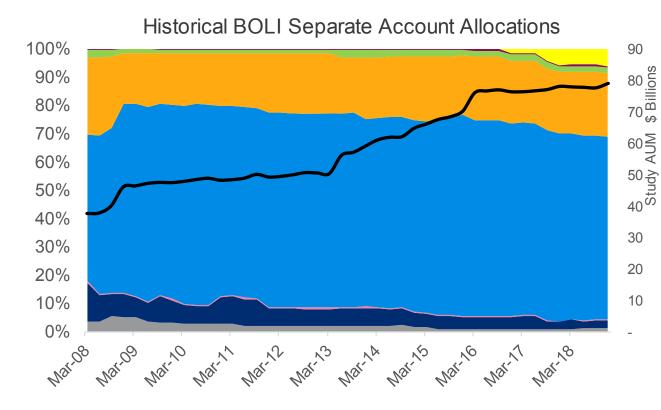
Currently comprises \$78.9 billion – approximately 89% of the industry.<sup>1</sup>

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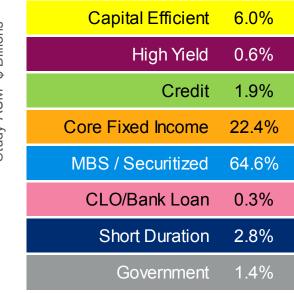
### HISTORICAL BOLI/COLI SEPARATE ACCOUNT ALLOCATIONS

#### For the last decade, allocations have been dominated by MBS / Securitized portfolios.

The chart below shows the study's total AUM (black line), and portfolio type breakdown (colored areas) over time.



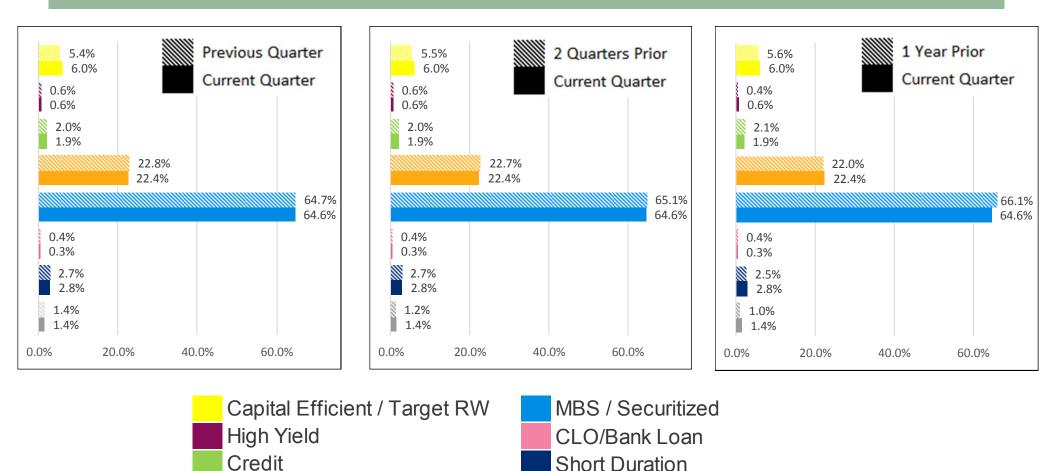
#### 2018-Q4 Weights



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# SEPARATE ACCOUNT ALLOCATION CHANGES

While some changes can be attributed to asset growth, periodic comparisons can show potential reallocations.<sup>2</sup>



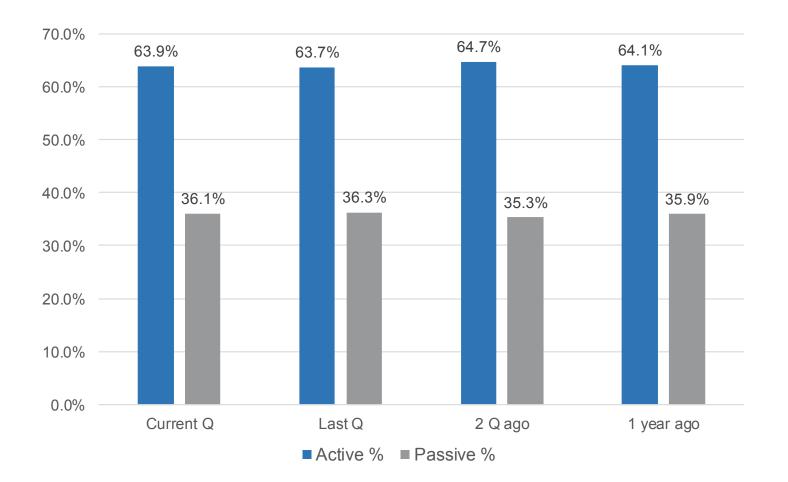
Government

Core Fixed Income

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# BREAKDOWN OF PORTFOLIOS (ACTIVE VS PASSIVE)

#### Of the \$78.9 billion in the study, 63.9% of the allocations are actively managed.



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Using common benchmarks for the categories, a proxy for the industry's SA Q4 MV performance is estimated at 1.71%.

	Benchmark	Quarter	1-Year	3-Year	Weights	Quarter	1-Year	3-Year
Capital Efficient	[Proxied By Blend of Below]	-0.06%	0.68%	2.97%	5.98%	1.71%	0.72%	1.90%
High Yield	Barclays High Yield	-3.34%	-1.70%	5.92%	0.56%			
Credit	Barclays US Credit	0.01%	-2.12%	3.17%	1.93%			
Core Fixed Income	Barclays US Agg	1.64%	0.01%	2.06%	22.39%			
MBS / Securitized	Barclays US MBS	2.08%	0.99%	1.71%	64.57%			
CLO/Bank Loan	CSFB Leverage Loan Index	-3.08%	1.10%	5.01%	0.34%			
Short Duration	ML 90-Day LIBOR	0.58%	2.08%	1.28%	2.83%			
Government	BofA / ML 1-3Y Treasury	1.29%	1.56%	0.95%	1.40%			

# CALL REPORT BOLI ANALYTICS

#### The overall effective RW for SA BOLI was ~40%; however, many banks default to 100%.

Using the Q4 category weights and proxy portfolios, MBSA estimates a ~25.7% effective riskweight for SA BOLI in our AUM Study using the Basel III Standardized Approach

	# of Banks	GA BOLI (\$B)	Hybrid BOLI (\$B)	SA BOLI (\$B)	SA Exposure (\$B)	SA RWA (\$B)	Total RWA / Total Exposure	Average Bank RW%	Bank RW% median and mode were 100%
Current Q	3,476	86.7	18.8	88.3	100.5	40.1	39.9%	91.4%	for all periods
Last Q	3,513	85.9	18.7	88.5	100.6	40.5	40.3%	90.7%	·
2 Q ago	3,545	85.1	18.6	88.1	100.2	40.3	40.2%	91.4%	
1 year ago	3,610	83.4	18.4	88.4	100.6	40.1	39.8%	90.3%	

#### All Banks

#### \$25B+ Banks

	# of Banks	GA BOLI (\$B)	Hybrid BOLI (\$B)	SA BOLI (\$B)	SA Exposure (\$B)	SA RWA (\$B)	Total RWA / Total Exposure	Average Bank RW%	For larger banks, the mode Bank RW% is
Current Q	78	51.0	11.8	83.6	89.7	31.7	35.4%	56.3%	still 100%, but median
Last Q	75	49.8	11.7	83.7	89.6	31.9	35.6%	55.4%	drops to 35%
2 Q ago	73	49.3	11.6	83.3	89.3	31.8	35.6%	70.7%	
1 year ago	73	48.5	11.4	82.7	88.9	31.6	35.5%	72.6%	

# FOOTNOTES / DISCLAIMERS

- 1. The % of industry covered in the study may represent more or less due to various factors;
  - Some of the data included in the study may include portfolios that are comingled with corporations or non-banking entities
  - Some of the missing assets may include equity portfolios, which are excluded from this study
- 2. "Reallocations" assumed by significant changes in categorical weights without a parallel change in total assets. May or may not reflect any actual reallocation activity.

\*Call Report Data may include BHC data from Y-9C Reports

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