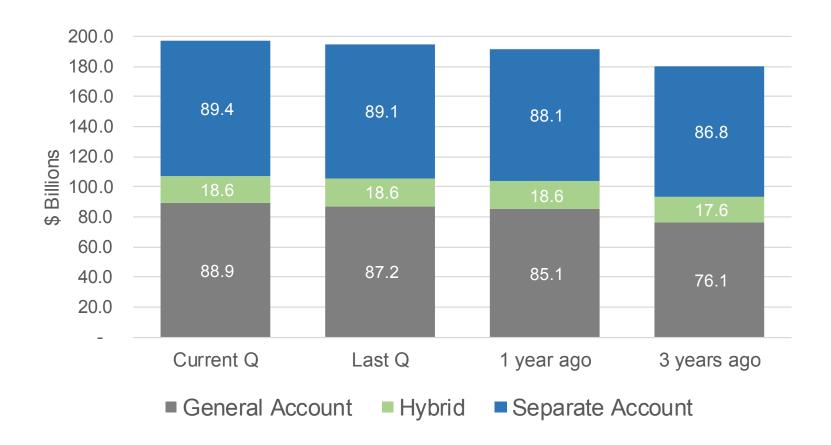


# BOLI INDUSTRY ANALYTICS & ALLOCATIONS

# BANK CALL REPORT BOLI BREAKDOWN

Banks reported \$196.9 billion of BOLI in 2019-Q2, of which \$89.4 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

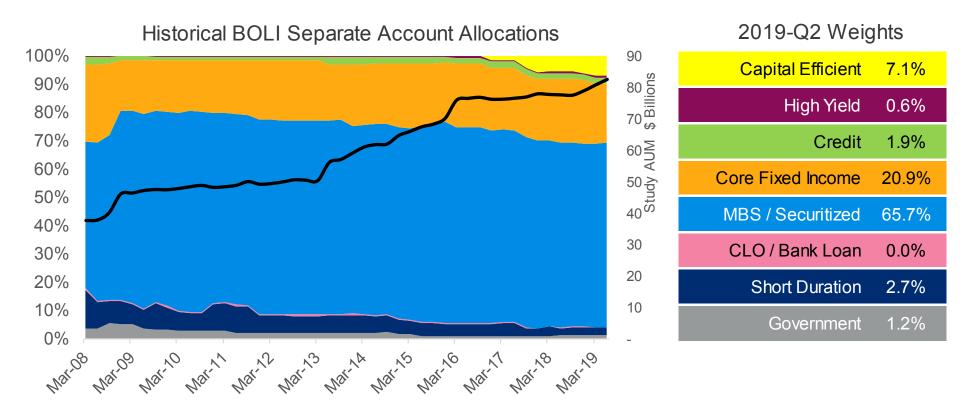
- MBS / Securitized (ABS / CMBS)
- CLO / Bank Loan
- Short Duration
- Government
- Portfolio types represent full portfolio MVs and do not look through to the holdings sector weights

Currently comprises \$82.6 billion – approximately 92% of the industry.<sup>1</sup>

# HISTORICAL BOLI/COLI SEPARATE ACCOUNT ALLOCATIONS

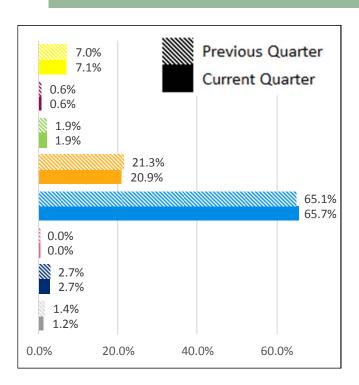
For the last decade, allocations have been dominated by MBS / Securitized portfolios. More recently, capital efficient / target RW type portfolios are gaining traction.

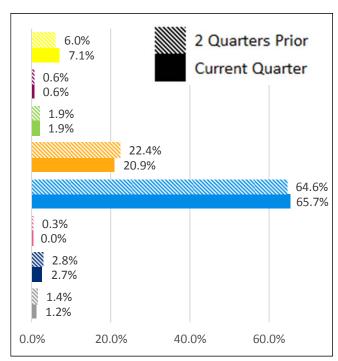
The chart below shows the study's total AUM (black line), and portfolio type breakdown (colored areas) over time.

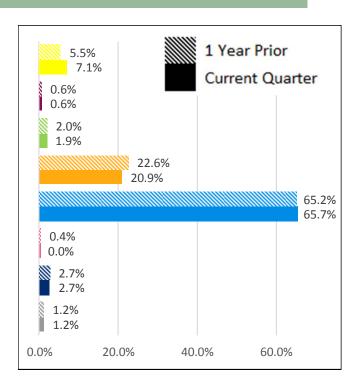


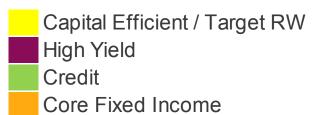
#### SEPARATE ACCOUNT ALLOCATION CHANGES

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





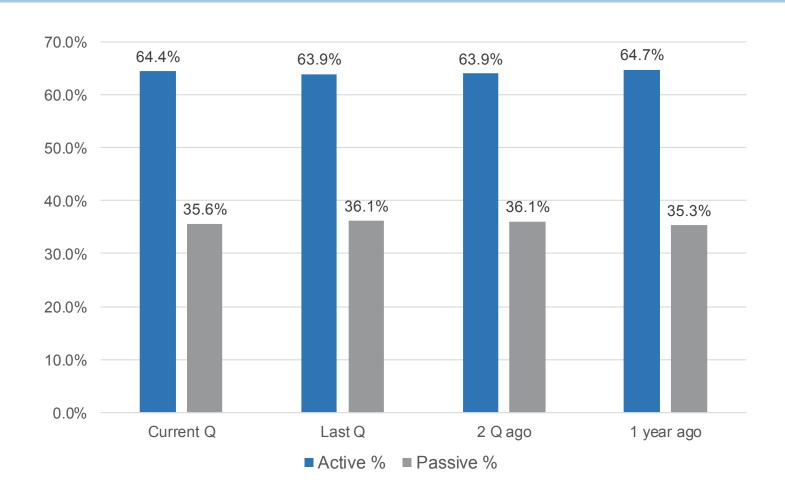






# BREAKDOWN OF PORTFOLIOS (ACTIVE VS PASSIVE)

Of the \$82.6 billion in the study, 64.4% of the allocations are actively managed.



# ALLOCATION COMMON BENCHMARK PERFORMANCE

Using common benchmarks for the categories, a proxy for the industry's SA Q2 MV performance is estimated at 2.20%.

Benchmark		Quarter	1-Year	3-Year	Weights
Capital Efficient	[Proxied By Blend of Below]		5.14%	2.70%	7.06%
High Yield	Barclays High Yield	2.83%	8.59%	6.80%	0.59%
Credit	Barclays US Credit	4.27%	10.35%	3.75%	1.87%
Core Fixed Income	Barclays US Agg	3.08%	7.87%	2.31%	20.93%
MBS / Securitized	Barclays US MBS	1.96%	6.22%	2.06%	65.66%
CLO / Bank Loan	CSFB Leverage Loan Index	0.84%	2.13%	3.57%	0.00%
Short Duration	ML 90-Day LIBOR	0.69%	2.58%	1.65%	2.68%
Government	BofA / ML 1-3Y Treasury	1.43%	3.94%	1.28%	1.21%
Industry Proxy Performa	2.20%	6.45%	2.20%		

## CALL REPORT BOLI ANALYTICS

The overall effective RW for SA BOLI was ~39%; however, many banks default to 100%.

Using the Q2 category weights and proxy portfolios, MBSA estimates a ~25.1% effective risk-weight for SA BOLI in our Study using the Basel III Standardized Approach

#### All 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%
Current Q	3,413	88.9	18.6	89.4	101.9	40.2	39.4%	90.7%
Last Q	3,447	87.2	18.6	89.1	101.4	40.2	39.7%	91.2%
2 Q ago	3,476	86.7	18.8	88.3	100.5	40.1	39.9%	91.4%
1 year ago	3,545	85.1	18.6	88.1	100.2	40.3	40.2%	91.4%

Bank RW% median and mode were 100% for all periods

#### \$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%
Current Q	77	52.8	11.9	84.7	91.3	32.0	35.0%	55.9%
Last Q	77	51.3	11.7	84.3	90.6	31.9	35.2%	55.8%
2 Q ago	78	51.0	11.8	83.6	89.7	31.7	35.4%	56.3%
1 year ago	73	49.3	11.6	83.3	89.3	31.8	35.6%	70.7%

For larger banks, the mode Bank RW% is still 100%, but median drops to ~35%

### 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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