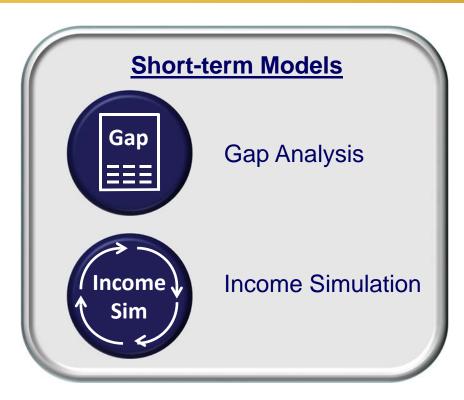
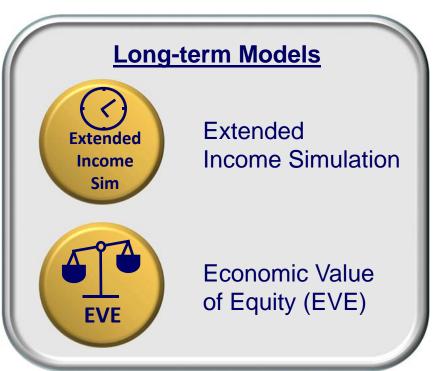


Interest Rate Risk

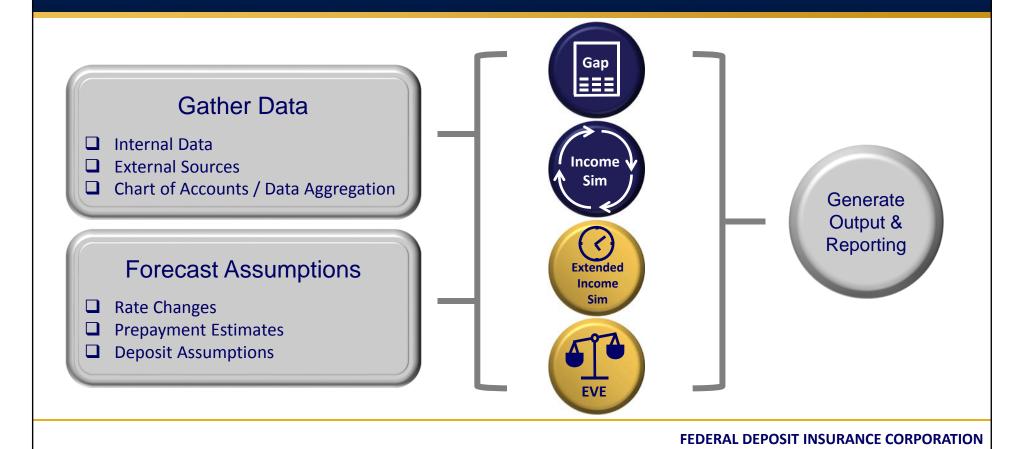
III. Measurement Systems

Types of Measurement Systems

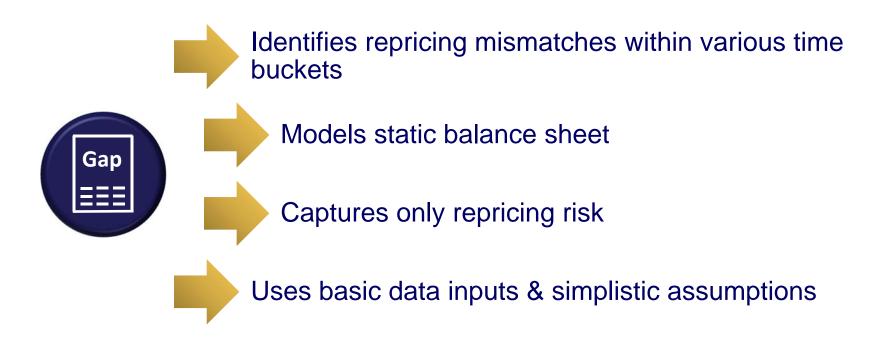




The Modeling Process



Gap Analysis



Gap Analysis Results



Estimated Repricing Mismatches

	0-6 Months	6-12 Months	Cumulative 0-12
Rate Sensitive Assets (RSA)	6,000	4,000	10,000
Rate Sensitive Liabilities (RSL)	10,000	5,000	15,000
RSA Less RSL (Gap)	(4,000)	(1,000)	(5,000)
Gap / Average Earning Assets	-16%	-4%	-20%

Note: Dollar figures in thousands

Income Simulations





Projects earnings over various time horizons and under an array of interest rate scenarios



Capable of static and dynamic balance sheet modeling





Captures multiple types of IRR



Uses sophisticated data inputs & advanced assumptions

Extended Income Simulation Results



Estimated Change in Net Interest Income

Rate Scenario	Year 1	%	Year 2	%	Years 3-5	%
+300 bps	\$90	-10%	\$85	-15%	\$210	-30%
Base Case	\$100	-	\$100	-	\$300	-
-100 bps	\$105	5%	\$110	10%	\$345	15%

Note: Dollar figures in thousands

Economic Value of Equity (EVE)



Identifies long-term risk exposures under selected interest rate scenarios





Models static balance sheet through the use of net present value calculations



Captures multiple types of IRR



Uses standard data inputs & complex assumptions

EVE Results



Estimated Net Present Value of Assets and Liabilities

Rate Scenario	EVE	Change		
+300 bps	\$3,750	-25%		
Base Case	\$5,000	-		
- 100 bps	\$5,500	10%		

Note: Dollar figures in thousands

Summary









- Earnings, capital levels, complexity, and risk profile
- Product attributes, aggregation, and optionality
- Cost, data management, and in-house expertise