

Balance Sheet Optimization: Driving Profitability

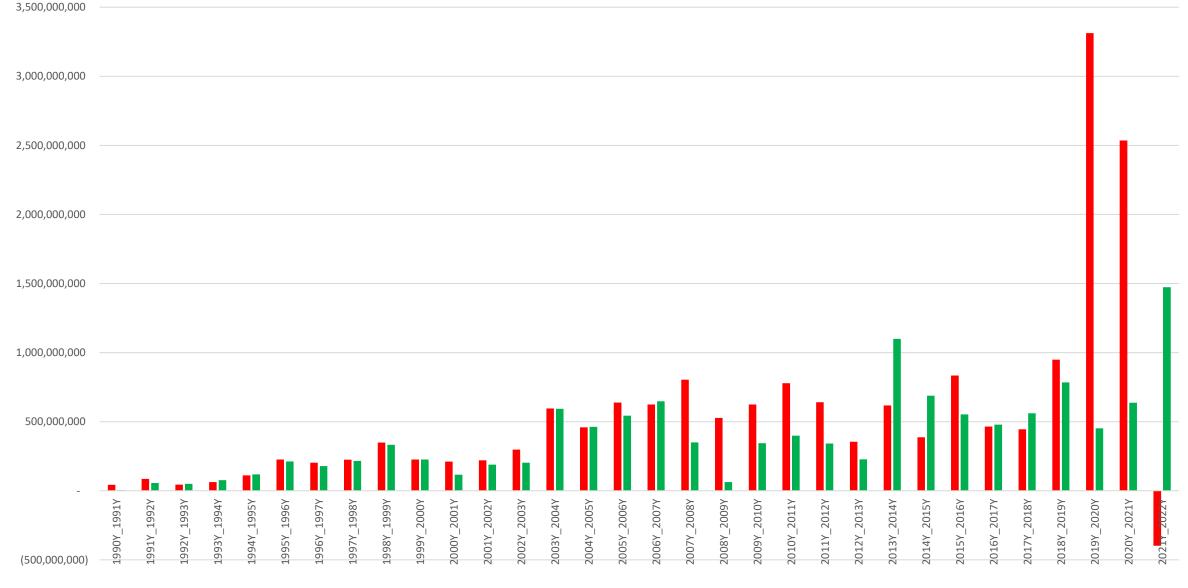
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KEY **HOW-TO...** TAKEAWAYS FROM TODAY'S PRESENTATION

- Why ALCO/Balance Management is important to overall profitability
- Discuss why strategy formation is **not a one-size fits all** approach
- How can we dissect our Net Interest Margin and get better? See Performance SNAPSHOT
- How can we **Reimage "Old School" ALCO** to drive better and/different strategies

(1,000,000,000)





7 1970's 1st IRR Model Created 1977

> Rate Sensitive Assets To **Rate Sensitive Liabilities** (GAP Analysis)



1st CMO Created 1983

Rate Sensitive Liabilities (GAP Analysis)

Earning At Risk

7 1980's

Rate Sensitive Assets To

7 1990's

S&L Banking Crisis 1986-1995

Rate Sensitive Assets To Rate Sensitive Liabilities (GAP Analysis)

Earning At Risk

Economic Value Of Equity

7 1990's-2000

Dot-Com Bubble & Collapse 1997-2000

Less Focus On GAP Analysis

Earning At Risk

Interest Income Stress Testing Economic Value Of Equity

Industry Default Loan & **Deposit Assumptions**

7 2000's

Subprime Mortgage Crisis 2007-2009

Less Focus On GAP Analysis

Earning At Risk

Interest Income Stress Testing Economic Value Of Equity

Bank Specific Loan & Deposit Assumptions **COVID** Era

COVID-19 2020 - 2022

GAP Analysis Dropped

Earning At Risk

Interest Income Stress Testing Economic Value Of Equity

> Bank Specific Loan & Deposit Assumptions

> Bank Specific Loan & **Deposit Assumptions**

Asset Sensitive Industry

Current & Future

POST COVID-19 2022 - Present

GAP Analysis Dropped

Earning At Risk

Interest Income Stress Testing Economic Value Of Equity

Bank Specific Loan & **Deposit Assumptions**

Bank Specific Loan & **Deposit Assumptions**

Stressed ALM Assumptions

Investments

Investments

Investments

Market Value Shocks

Liquidity Assessment

Investments Market Value Shocks

Cash Flow Shocks

Liquidity Assessment

Liquidity Stress Testing

Capital Adequacy Assessment

Capital

Investments

Market Value Shocks Cash Flow Shocks

Ind. Muni. Credit Analysis

Liquidity Assessment **Liquidity Stress Testing**

Contingency Funding Plans

Capital Adequacy Assessment

Asset Quality Trends Capital Plan

Investments

Market Value Shocks Cash Flow Shocks

Ind. Muni Credit Analysis

Investment Strategies

Liquidity Assessment **Liquidity Stress Testing** Contingency Funding Plans

Capital Adequacy Assessment **Asset Quality Trends** Capital Plan

Capital Stress Testing

Investments

Market Value Shocks

Cash Flow Shocks

Ind. Muni Credit Analysis

HTM/AFS Discussion

Liquidity Assessment

Liquidity Stress Testing 2.0

Contingency Funding Plans

Capital Adequacy Assessment Asset Quality Trends Capital Plan

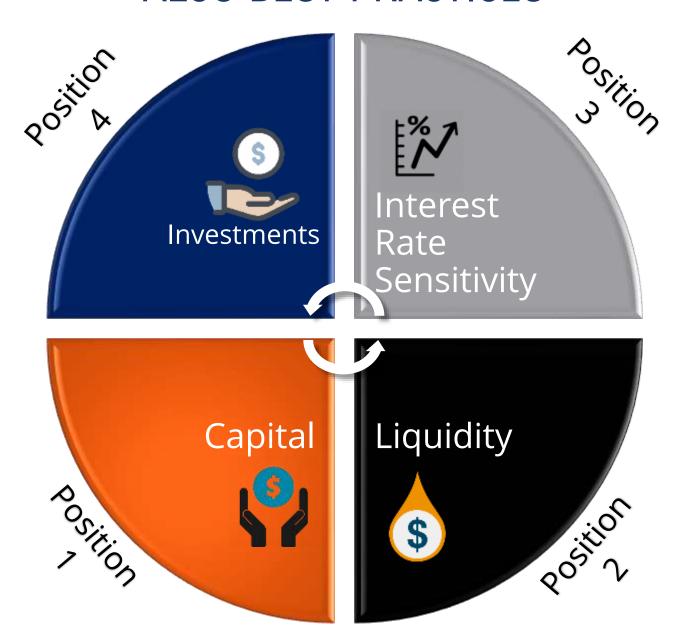
Capital Stress Testing 2.0



Position Assessment



ALCO BEST PRACTICES





HOW ARE FINANCIAL INSTITUTIONS DIFFERENT?

Balance Sheet Mix	Institution 1	Institution 2	Institution 3
Cash	10%	5%	0%
Investments	30%	50%	20%
Loans	60%	45%	80%
Loan Mix			
1-4 Family	80%	20%	35%
Commercial	10%	40%	45%
Consumer	10%	40%	20%
Fixed	90%	20%	50%
Float	10%	80%	50%
Loan Marketplace	Flat	Flat	Strong Growth
Liquidity Position			
FHLB Borrowing Capacity	High	Moderate	None
Core Deposit Stability	Stable	Stable	Volatile
Pledging Requirements	High	None	None
Interest Rate Risk Position			
Asset/Liability Sensitivity	Liability	Asset	Neutral



ALCO BEST PRACTICES

- Study the <u>Past</u>
- Monitor the Present
- Prepare for the <u>Future</u>





STUDY THE PAST



Where <u>were</u> we?

- Trend Analysis
- Historical Ratios
- Peer Comparison
- Balance Sheet Mix
- Rate Movements
- Spread Changes

Reflect

- What did we do right?
- What did we do wrong?
- Were our strategies effective?
- How did environment change?



MONITOR THE PRESENT



Where <u>are</u> we?

- Position Assessment
- Net Interest Margin Dissection
- Competition Analysis
- Word-Problem Approach
- Re-focus on Objectives

Reflect

- Loan Demand vs. Deposit Growth
- Rate Climate
- Current Profitability (or not!)
- Resources: Loan/Deposit Officers



PREPARE FOR THE FUTURE

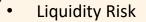


Where <u>could we go</u>?

- Accountability
 - Review Minutes: Action Items, Strategies
- Tactical Forecasting
 - Loans vs. Deposit Projection
 - Liquidity Flows
- Stress Testing
 - Capital: Credit Deterioration
 - Interest Rate Risk: Higher/Different Betas
 - Liquidity: Reduced Access to Funding
 - Securities: Cash Flow Volatility, Duration
- Strategic Forecasting

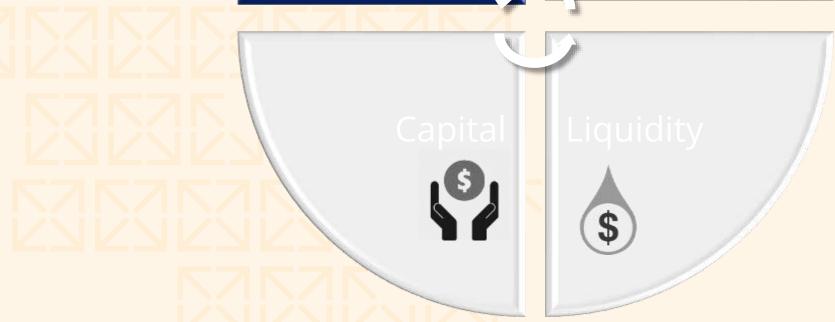


O HUB TAYLOR BALANCE SHEET MANAGEMENT – INVESTMENTS



- Price Risk
- Credit Risk
- Impairment
- Risk Adjusted Returns
- **ALM Considerations**





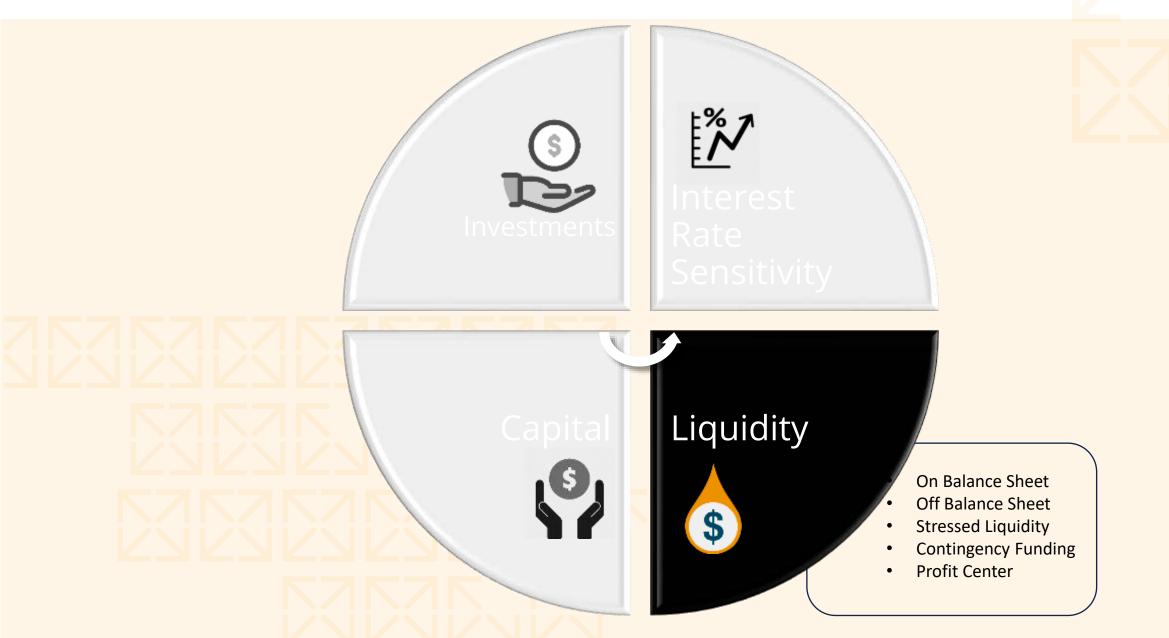


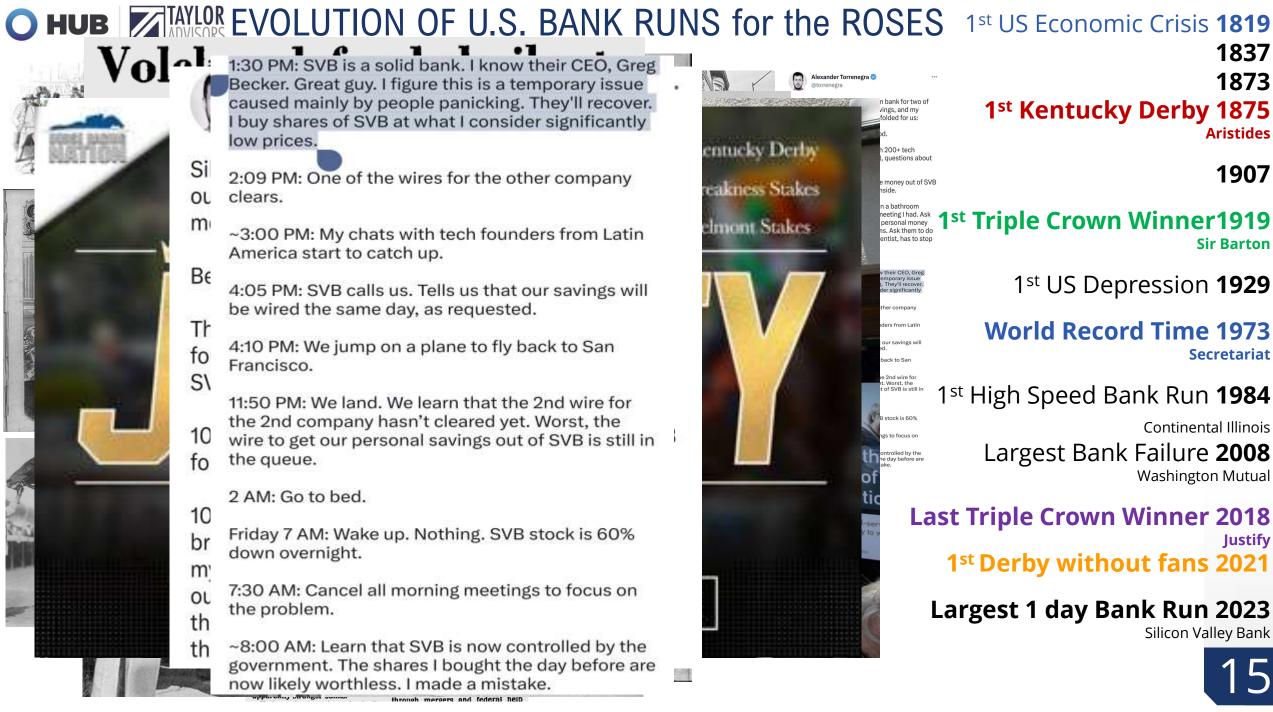
BALANCE SHEET MANAGEMENT – INTEREST RATE RISK





BALANCE SHEET MANAGEMENT - LIQUIDITY







1873 1st Kentucky Derby 1875

Aristides

Ist Triple Crown Winner1919

Sir Barton

1837

1907

1st US Depression **1929**

World Record Time 1973

Secretariat

1st High Speed Bank Run **1984**

Continental Illinois

Largest Bank Failure 2008

Washington Mutual

Last Triple Crown Winner 2018

Justify

1st Derby without fans 2021

Largest 1 day Bank Run 2023 Silicon Valley Bank



What do you think will come next?

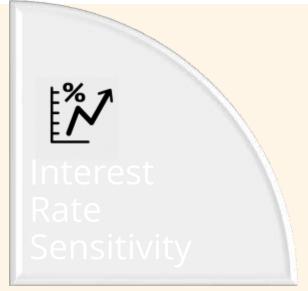
A significant Kentucky Derby Event

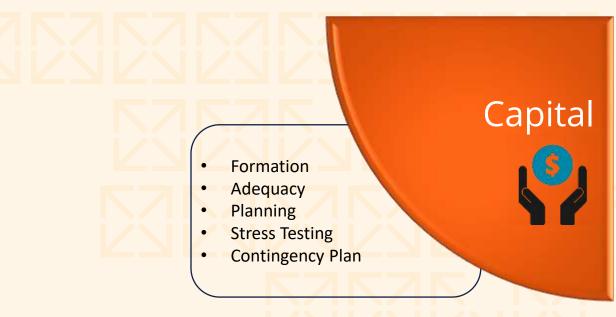
The next bank failure/crisis



BALANCE SHEET MANAGEMENT - CAPITAL

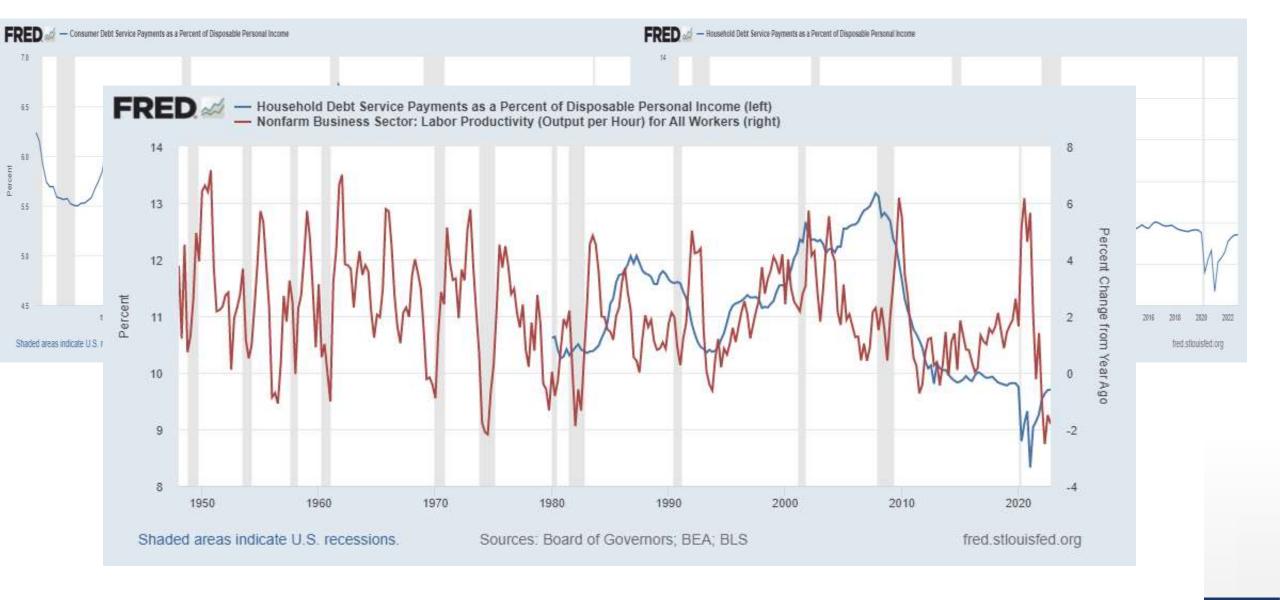








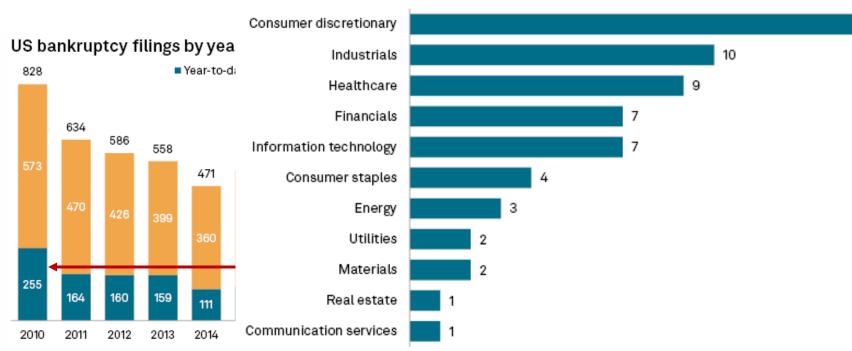






BANKRUPTCIES ON THE RISE...

2023 bankruptcy filings by primary sector





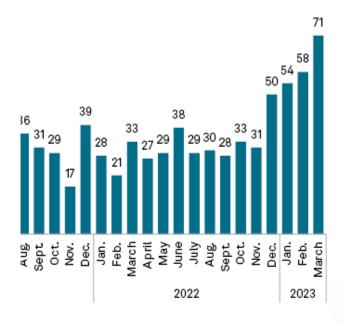
Data compiled Mar. 2, 2023.

Includes S&P Global Market Intelligence-covered U.S. companies that announced a bankruptcy between Jan. 1, 2023, and Feb. 28, 2023.

S&P Global Market Intelligence's bankruptcy coverage is limited to public companies or private companies with public debt where either assets or liabilities at the time of the bankruptcy filing are greater than or equal to \$2 million, or private companies where either assets or liabilities at the time of the bankruptcy filing are greater than or equal to \$10 million. Primary sector not available for 48 bankruptcies filed in 2023.

Source: S&P Global Market Intelligence.

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s that announced a bankruptcy between Jan. 1, 2020, and

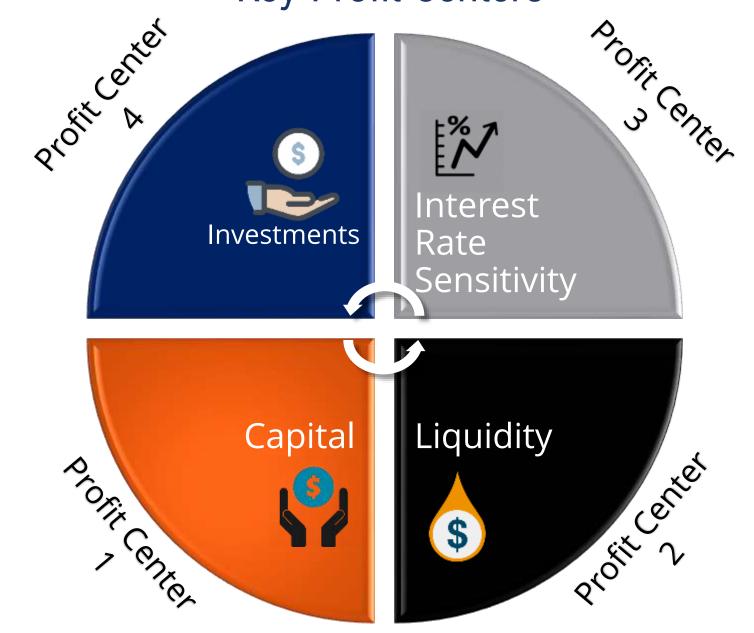
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Key Profit Centers





OBJECTIVES AND STRATEGIES





ONE YEAR NIM DOLLAR IMPACT

Earning Asset Size	Net Interest Income Change in thousands of dollars (due to Yield change in basis points)							
(in \$000)	5	10	15	20	25	30		
100,000	50	100	150	200	250	300		
250,000	125	250	375	500	625	750		
500,000	250	500	750	1,000	1,250	1,500		
1,000,000	500	1,000	1,500	2,000	2,500	3,000		
2,500,000	1,250	2,500	3,750	5,000	6,250	7,500		
5,000,000	2,500	5,000	7,500	10,000	12,500	15,000		
10,000,000	5,000	10,000	15,000	20,000	25,000	30,000		