



# RETHINKING POLICIES AND GOVERNANCE FROM RECENT BANKRUPT

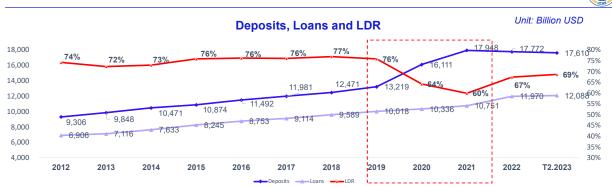
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PRESENTATION AT ISCEED 2023

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# Key ratios of the US banking industry





- ➤ In 2020-2021, Fed applies expansionary monetary policy to injects money into the economy (buying bonds, financial assets, etc.). Through policy transmission channels, the amount of deposits in banks increased from USD 13.2k billion in 2019 to ~USD 18k billion in 2021 (up ~36%), while weakening credit demand due to Covid-19 epidemics and economic recession pushed system-wide LDR to a record low, from 76% (2019) to 60% (2021).
- With excess capital, banks accelerated disbursement and found alternative investment channels. The push to invest in fixed-rate assets such as mortgage-backed debt securities in period of rising interest rates with no reasonable risk management has put many banks in difficult situations and bankruptcies.

Source: Board of Governors of the Federal Reserve System (US)

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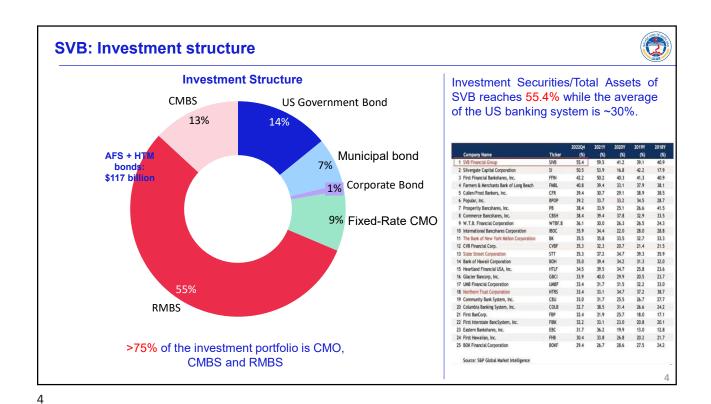
#### Fed rates increased sharply Fed rates MAY 3 25 0 5.00-5.25 5,0 4,5 MARCH 23 4.75-5.00 4,5 4,0 0 4.50-4.75 3,5 FEBRUARY 1 25 3,0 2.5 DECEMBER 15 4.25-4.50 2,0 1,5 NOVEMBER 3 0 3.75-4.00 1,0 0,1 0,1 0,2 SEPTEMBER 22 3.00-3.25 19 20 21 18 22 23F 24F 25F 75 JULY 28 0 2.25-2.50 JUNE 16 1.50-1.75 MAY 5 50 0.75-1.00 7 rate hikes in 2022 3 times in 1H2023 MARCH 17 0.25-0.50 Source:Fed 2

SVB: Impressive growth

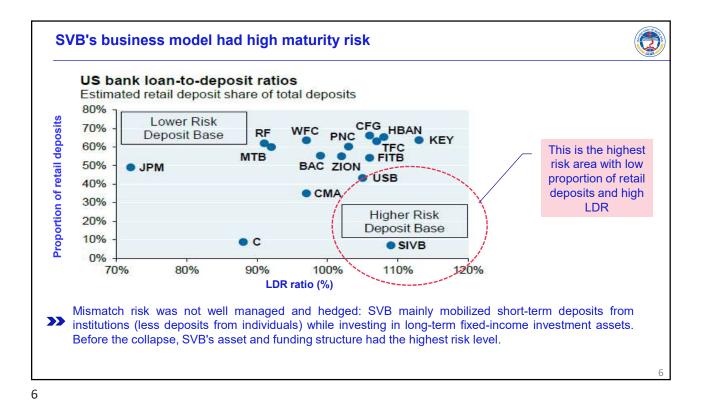


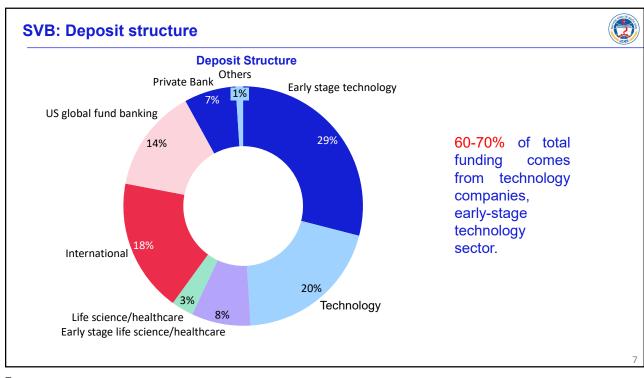


- > SVB, 40-year-old bank, achieve impressive growth in Total asset, TOI and PBT comparing with the sector, specially over the past 5 years
- >>> SVB had the total asset of about USD 209 billion, ranking 16/4,600 in the US (31 Dec 2022)
  - ▶ BUT
  - Declare bankruptcy in March 2023.



**SVB: Investment portfolio** Average remaining duration is 5.6 years Investment assets increase 4 Fed rates Non-hedging times within 2 years HTM AFS Average fixed income investment securities Fed rates 124 -14 bps QoQ 6 +291% 5 83 4 4,5 2,4 3 32 2 13 0,10,10,20,6 25 29 19 2021 2022 2020 201213 14 15 16 17 18 19 20 21 22 23F24F25F Average remaining duration of US banks | 20207 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 20707 | 2070 SVB Financial Group
 Prosperity Bancshares, Inc.
 Cullen/Frost Bankers, Inc.
 Bank of America Corporation Investment book of \$120 1-5Vr -5Vr 7-532 48.333 10.728 25.413 2.525 24.823 8.528 24.823 8.528 24.823 12.009 22.098 0.981 22.123 5.628 21.068 21.075 21.098 1.018 20.553 5.483 21.758 1.513 20.973 1.513 19.873 1.928 19.823 1-5Yr - 5Yr - 7.85Y - 48.99% - 1.25% - 38.09% - 26.01% - 2.53% - 25.33% - 2.33 5-21Yr 1-5Yr 0.21% 7-46% 7-46% 1.08% 1.13% 6.83% 1.13% 6.83% 1.13% 1.78% 0.44% 3.15% 1.57% 0.29% 1.69% 0.95% 0.78% 0.91% 5.81% 1.46% 1.79% 0.21% 3.21% 3.21% 1.20% 0.21% 3.21% 0.21% 3.21% 0.95% billions and average duration of 5.6 year mean that if interest increases 0.1%, SVB will loss \$700 millions. Interest rate in 2021-2022 cause SVB a accumulative loss of \$14 billions. Nguồn: S&P Global Market Intelligent, SVB



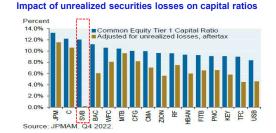


#### Unrealized losses of AFS and HTM portfolio exceeded Equity as of December 31, 2022 Net Carry Value ACL (2) (Dollars in millions) HTM securities, at cost U.S. agency debentures (1) 486 (52) 434 S 486 Residential MBS: Agency-issued MBS Agency-issued CMO—fixed rate 57,705 10,461 (9,349) (1,885) 57,705 10,461 HTM 8,576 Agency-issued CMO—variable rate Agency-issued CMBS Municipal bonds and notes 14,471 7,417 (2,494) (1,269) 11.977 14,471 6,150 7,416 Corporate bonds (109) 599 703 16,135 101 1,088 AFS Portfolio

Accounting principles used by SVB:

- Financial assets classified as HTM are recognized according to the amortized cost method, the profit and loss from mark to market is not recorded in the income statement, loss is recorded only when sold
- Financial assets classified as AFS are recognized according to the reasonable cost method, the profit and loss from mark to market is not recognized in the income statement (but recorded off-balance sheet in comprehensive income), loss recorded only when sold out.

On the financial statements at the end of 2022, the HTM portfolio had a loss of USD 15.2 billion, AFS portfolio had a loss of USD 2.5 billion, total loss was USD 17.7 billion.



Total AFS securities (1)

- Equity at the end of 2022: 16.3 tỷ USD
  - As of December 31, 2022: If calculating the entire unrealized loss of the HTM portfolio (USD -15.2 billion), SVB's CET 1 capital adequacy ratio was close to 0%. If calculating the loss of AFS => CET 1 was negative.
- On March 8, 2023, SVB sold USD 21 billion in AFS portfolio and recorded a loss of USD 1.8 billion. SVB tried to raise capital from shareholders and took assets under the HTM portfolio as collateral for loans but failed and so they were forced to stop operating. And even if SVB succeeded in raising capital (borrowing,...), it would only be a temporary solution to prolong the bankruptcy time, not be able to prevent the loss of interest rate gap (Borrowing interest rate ~4.5% while the return on HTM portfolio is at 1.8%).

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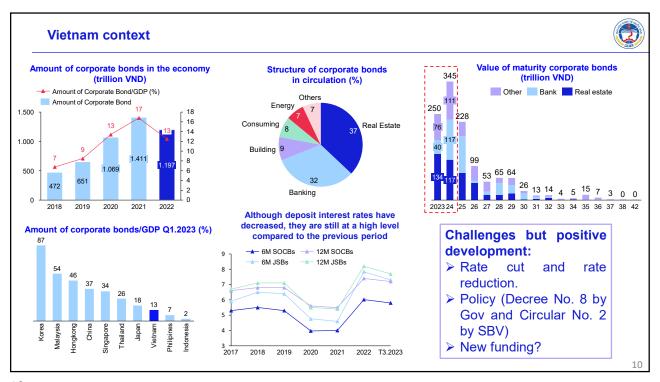
#### **How SVB is different than Lehman Brothers**



	Sillicon Valley Bank	Leman Brothers
Scale	According to the financial statement at the end of 2022  - Assets: USD 212 billion (0.92% of the system)  - Equity: USD 16 billion (0.75% of the system)  - Deposits: USD 196 billion (0.94% of the system)	According to financial statements for the year 2008 - Assets: USD 639 billion (5.8% of the system) - Equity: USD 26 billion (2.3% of the system) - Deposits: USD 613 billion (6.2% of the system)
Ranking	16 <sup>th</sup>	4 <sup>th</sup> -largest investment bank
Reasons	<ul> <li>ALM structure: SVB bet against the interest rate trend (Over investment in fixed rate assets in rising interest rate trend)</li> <li>Failing to manage concentration risk, interest rate risk, liquidity risk</li> <li>Using short-term deposits to invest in long-term assets (CMBS, RMBS,)</li> <li>Customers are concentrated in one industry group (startup, technology companies)</li> </ul>	Investment bank with a high-risk leveraged business model that invested with largely proportion in securities backed by subprime mortgage loans.
Fed's actions	<ul> <li>Depositors at SVB with deposit insurance could withdraw money from March 13.</li> <li>Implementing a liquidity support program for banks with a scale of USD 25 billion USD per bank.</li> </ul>	Fed did not support Lehman Brothers

### Remark:

- ➤ 2008: Securitization of subprime loans due to banks taking too much risk
- 2023: Investing in fixed-rate products in a rising interest rate trend and investing in volatile financial assets.
- **Trend and Trust**



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## **Lessons from SVB**



- > ALM Structure
- > DON'T BET AGAINST THE TREND
- > Managing interest rate risk, liquidity risk, concentration risk
- > Applying advanced practices in governance and risk management
- ➤ Managing TRUST

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#### **Conclusion and Recommendations**



#### Central Bank:

- ✓ Improve regulations, policies and strengthen the management of interest rate risk and liquidity risk of the whole system:
- ✓ Suplement additional important indicators to bank supervision and stress testing models such as NSFR (Net Stable Funding Ratio), AOCI (Accumulated Other Comprehensive Income).
- ✓ Incorporate unrealized gain/loss when calculating the CAR of the whole system and each bank to enhance the capital capacity and risk management of the banking system.

#### Commercial Banks:

- ✓ Sharpen market forcasting, strenthening ALM
- ✓ Actively implement stress testing scenarios.
- ✓ Mark to the market and incorporate potential loss into CAR caculation to improve governance and proactively taking measures to improve capital capacity.
- ✓ Applying advanced management practices (Basel III, IFRS, etc)

#### All

- ✓ ALM: country level, sectoral level, corporation level, indidual level,
- ✓ Trust management, reputation management
- ✓ Following the right trend will make profits, building TRUST will ensure long lasting competitiveness.

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# Thank you very much