# **Community Bank Market Value – How is it Determined, and How is it Changing?**

## **Curtis Carpenter**

Hovde Group, LLC

### Bank Director.



#A0BA23

# COMMUNITY BANK MARKET VALUE: How is it Determined and How is it Changing?

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#### **PRESENTATION BY:**

CURTIS CARPENTER SENIOR MANAGING DIRECTOR, INVESTMENT BANKING HOVDE GROUP, LLC



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### I MACROECONOMIC ENVIRONMENT: EVERYTHING IS CHANGING



### THE PARTY'S OVER AND NOW WE ARE LEFT WITH THE TAB

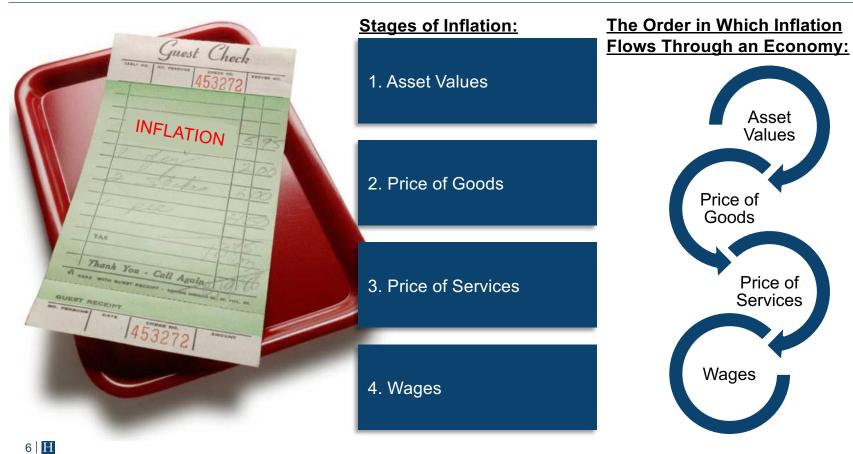
During the COVID lockdowns of 2020, the Federal Government spent an unprecedented \$3.5 trillion.

After the economy started to recover in 2021, the Biden Administration passed a series of spending measures providing \$3.2 trillion of additional fiscal spending on top of regular budgeted expenditures.

This \$6.7 trillion of Fiscal stimulus has been the largest fiscal spending in U.S. history and has been appropriated from March 2020 to today.

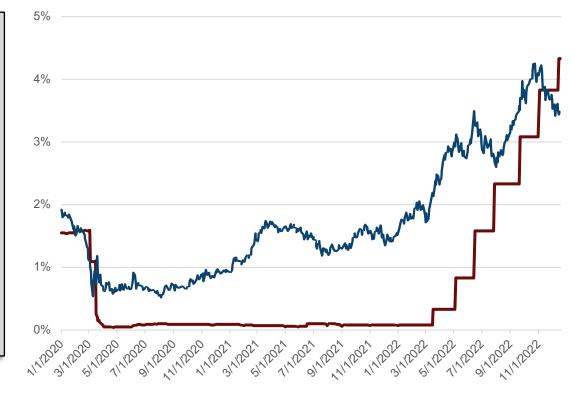
CARES Act March 2020	\$2.2 Trillion
Consolidated Appropriations Act December 2020	\$900 Billion
Other Related 2020 Spending	\$400 Billion
American Rescue Plan Act March 2021	\$1.9 Trillion
Infrastructure Investment and Jobs Act November 2021	\$500 Billion
The CHIPS and Science Act August 2022	\$280 Billion
Inflation Reduction Act August 2022	\$437 Billion
Total as of November 2022	\$6.7 Trillion

### TIME TO PAY THE PARTY'S TAB



### TO COMBAT INFLATION, THE FED HAS BEGUN HIKING RATES AGGRESSIVELY

- The Fed has embarked in the most aggressive rate hiking period since the early 1980s.
- Rate Hikes in 2022:
  - March 2022: 25 bps
  - May 2022: 50 bps
  - June 2022: 75 bps
  - July 2022: 75 bps
  - September 2022: 75 bps
  - November 2022: 75 bps
  - December 2022: 50 bps
  - **Total 2022: 425 bps**



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### UNPRECEDENTED PACE FOR FED RATE HIKES

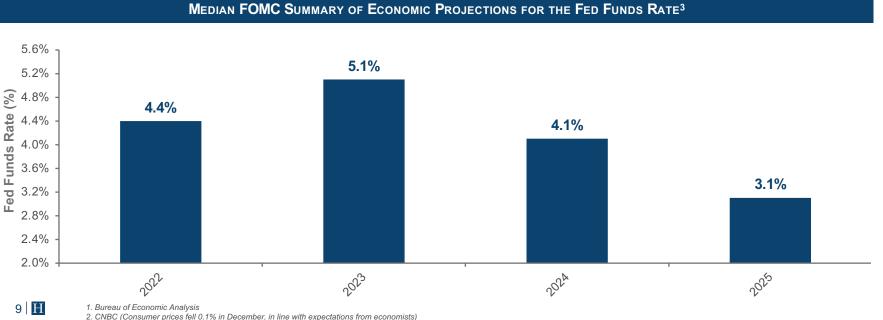
FOMC'S TARGET FEDERAL FUNDS RATE CHANGES OVER TIME



8 Data as of 12/31/2022 Source: Federalreserve.gov

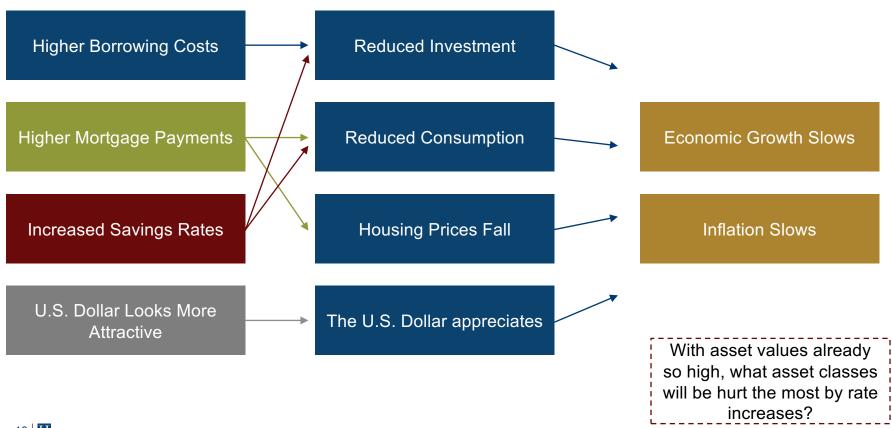
### FOMC PROJECTIONS FOR THE FED FUNDS RATE

- The Fed's preferred inflation gauge, the core PCE index, rose 4.7% in November<sup>1</sup>, more than double the central bank's 2% target
- The Consumer Price Index (CPI) rose 6.5% in December from a year ago, in line with expectations from economists.<sup>2</sup>
- In 2022, the Fed raised interest rates 425 basis points to a range of 4.25%-4.50%.
- In December, the Fed again raised rates another 50 basis points, in its latest attempt to quash inflation.
  - "I would say it's our judgment today that we're not in a sufficiently restrictive policy stance yet, which is why we say that we would expect that ongoing hikes will be appropriate." – Fed Chairman Powell (December 14, 2022)



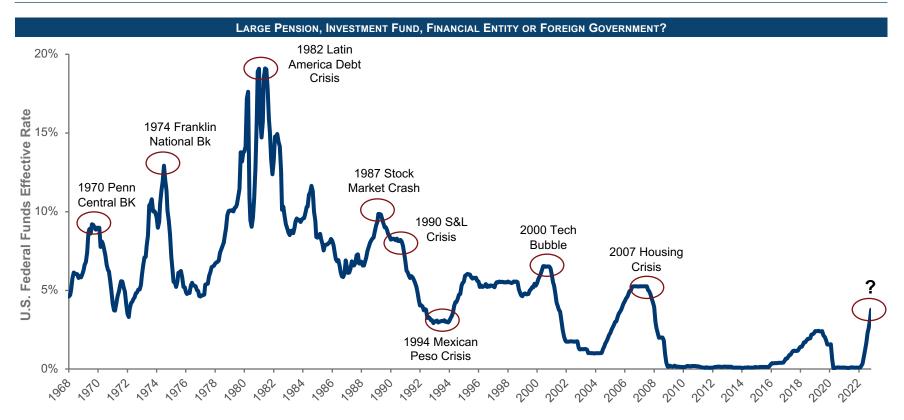
3. FRED (Updated December 14, 2022)

### IMPLICATIONS OF RISING INTEREST RATES

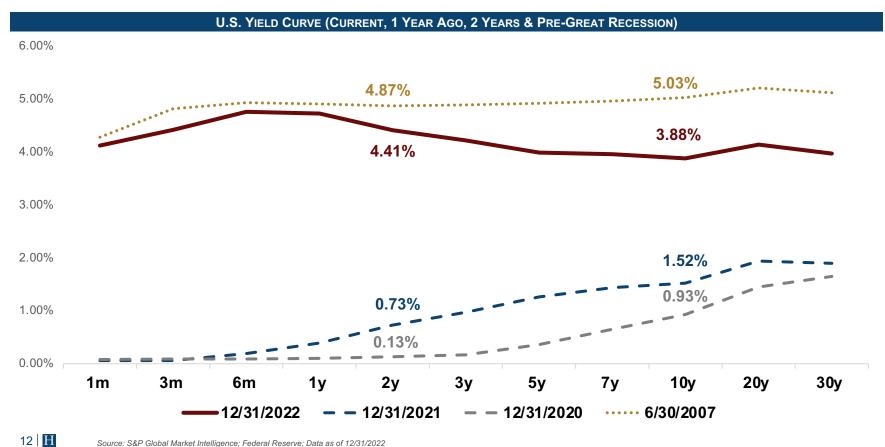


10 H Source: Bull Oak Capital

### WHAT WILL THE FED BREAK THIS TIME?

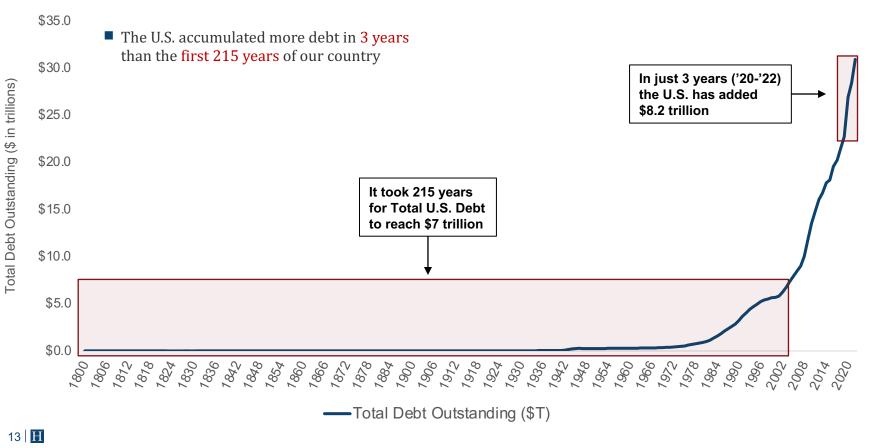


### YIELD CURVE – BIG CHANGE FROM RECENT YEARS



Source: S&P Global Market Intelligence; Federal Reserve; Data as of 12/31/2022

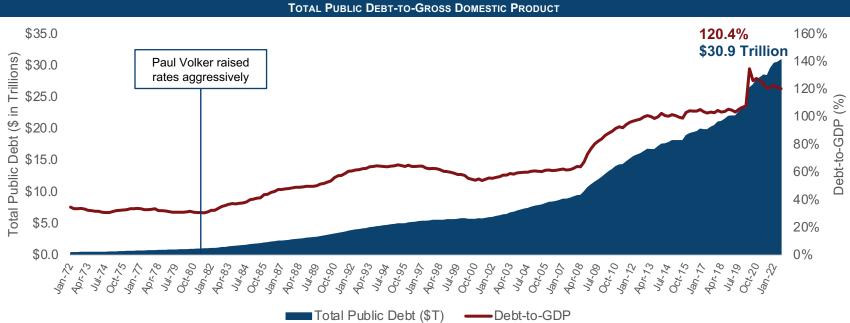
### U.S. DEBT ACCUMULATION SINCE 2020



Source: fiscaldata.treasury.gov (Data as of September 30, 2022)

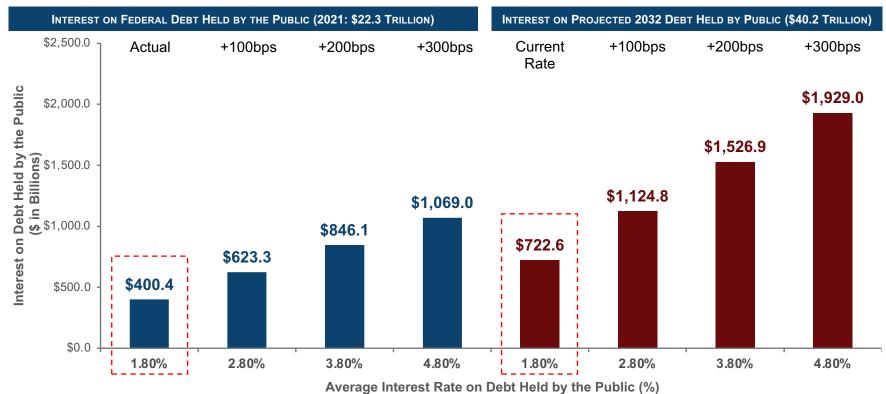
### U.S. NATIONAL DEBT TO GDP LIMITS OUR FLEXIBILITY

- The U.S. currently has \$30.9 trillion in public debt which does not include future entitlement obligations.
- The U.S. Debt-to-GDP is currently at 120.4% higher than WWII levels.
- The CBO projects public debt to reach \$45.4 trillion by the end of 2032.
- U.S. Debt levels are unsustainable and put economic growth and stability at great risk.



### WHAT HAPPENS TO FEDERAL INTEREST EXPENSE IF INTEREST RATES RISE?

Holding federal debt held by the public constant at the 2021 level of \$22.3 trillion, a 3.00% increase in the average interest rate on this debt would increase its interest expense by 267%. This debt is expected to increase to \$40.2 trillion by 2032. The CBO projects this interest to be 3.15% by 2032.



Financial data as of 9/30/2021; CBO report as of May 2022

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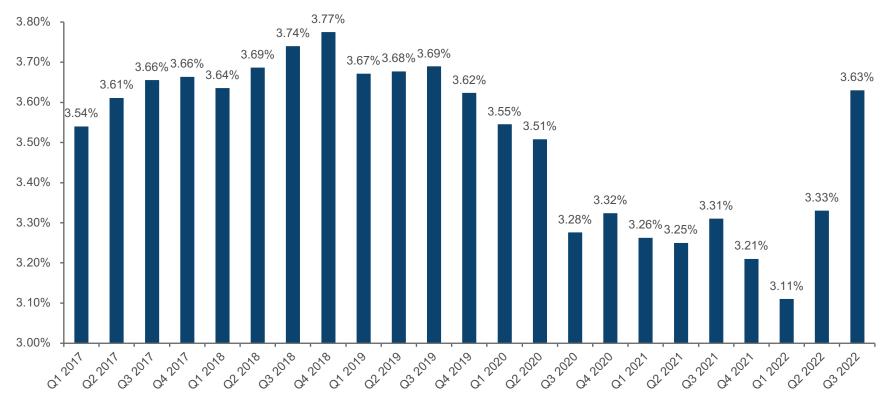
Source: Federal Reserve Bank of St. Louis; Congressional Budget Office

### II BANK EARNINGS FACE HEADWINDS



### WHAT IS THE FUTURE FOR NET INTEREST MARGIN?

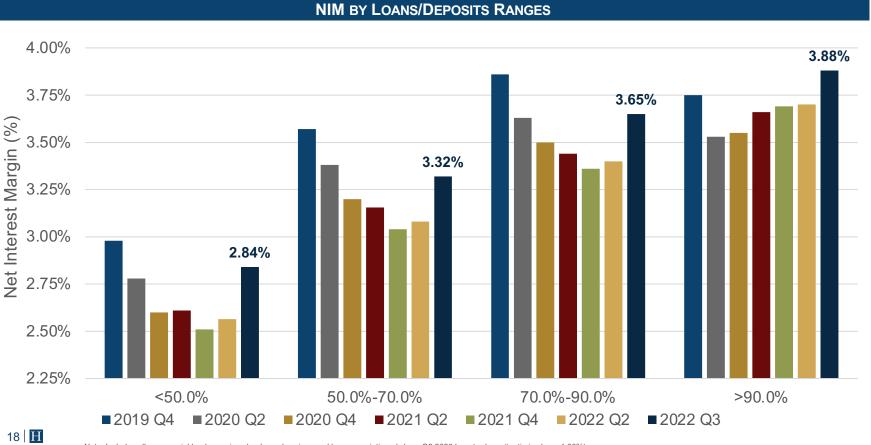
#### **QUARTERLY BANK INDUSTRY NET INTEREST MARGIN**





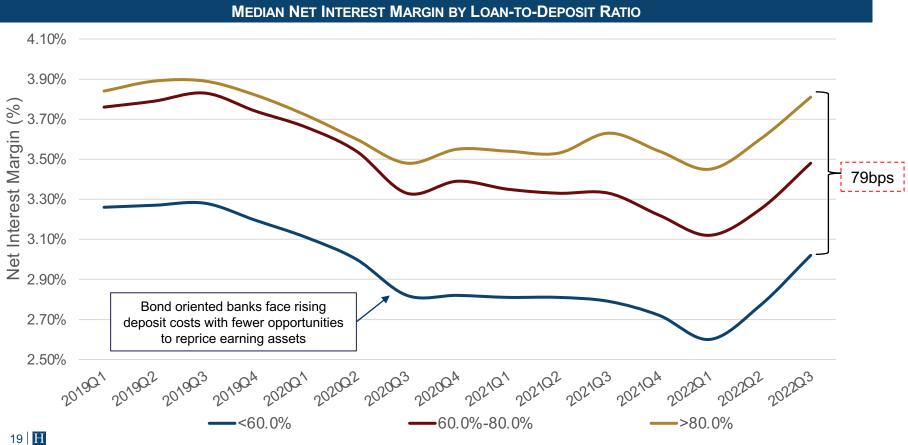
Source: FDIC; Data as of 9/30/2022; Includes all FDIC-insured Community Banks (as defined by the FDIC)

### NIM BY LOANS-TO-DEPOSITS



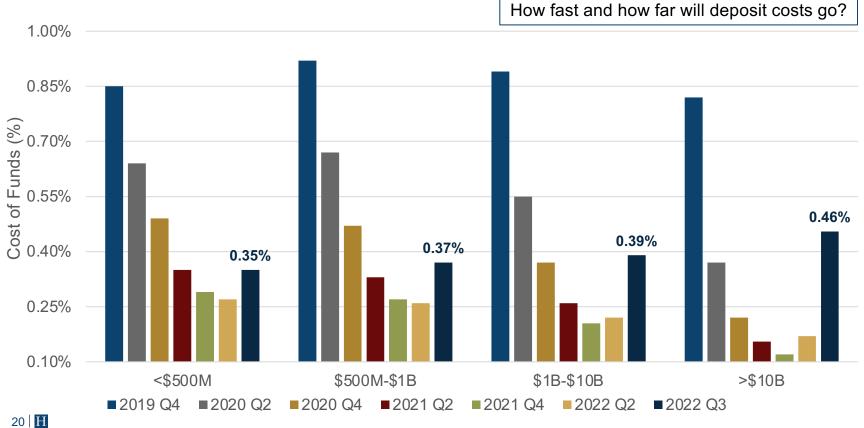
Note: Includes all commercial banks, savings banks and savings and loan associations (where Q2 2020 loan-to-deposit ratio is above 1.00%) Source: S&P Global Market Intelligence

### LOAN-TO-DEPOSIT RATIO: IMPACT ON NET INTEREST MARGIN



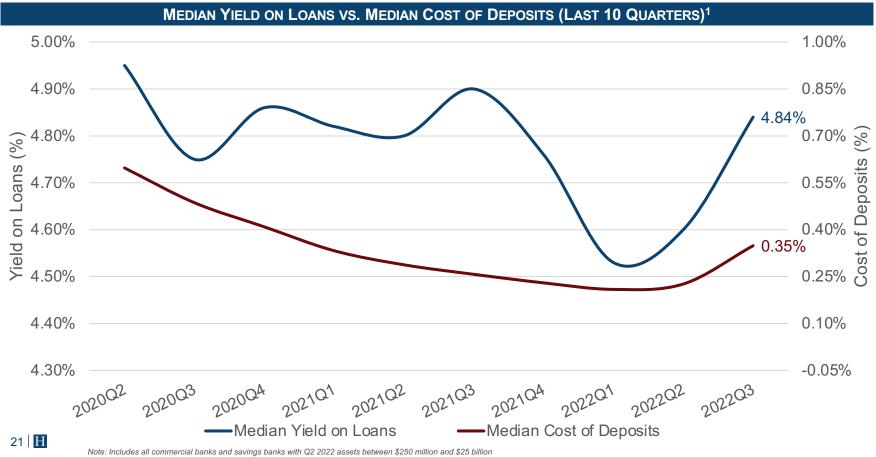
Note: Includes all commercial banks, savings banks and savings and loan associations (where Q2 2020 loan-to-deposit ratio is above 1.00%) Source: S&P Global Market Intelligence; Data as of 9/30/2022

### COST OF FUNDS BY ASSET RANGES



Note: Includes all commercial banks, savings banks and savings and loan associations (where Q2 2020 loan-to-deposit ratio is above 1.00%) Source: S&P Global Market Intelligence

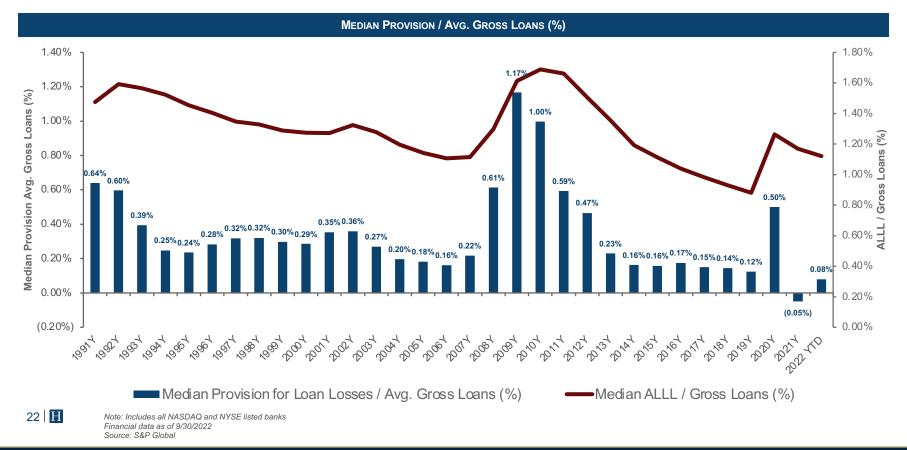
### LOAN YIELDS AND DEPOSIT COSTS: CAN WE EXPECT MARGINS TO EXPAND?



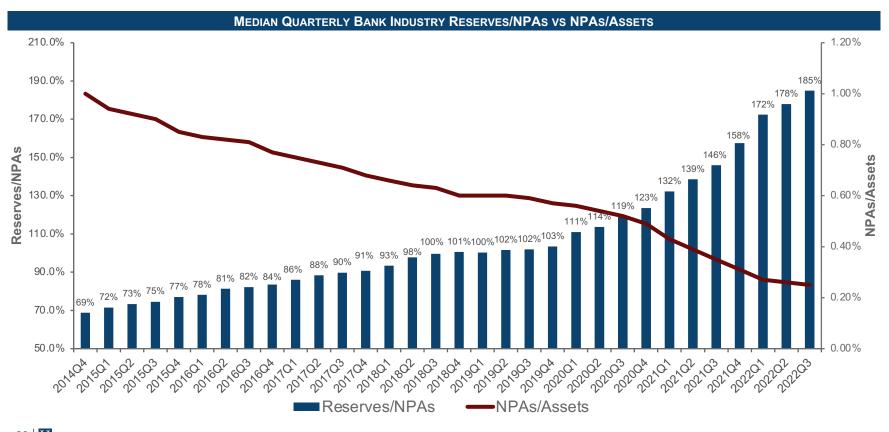
Source: S&P Global Market Intelligence; Data as of 9/30/2022

### ARE BANKS ADEQUATELY RESERVED?

While banks set aside large reserves in 2020, they recouped some of those reserves in 2021. In 2022, these levels have begun to normalize.

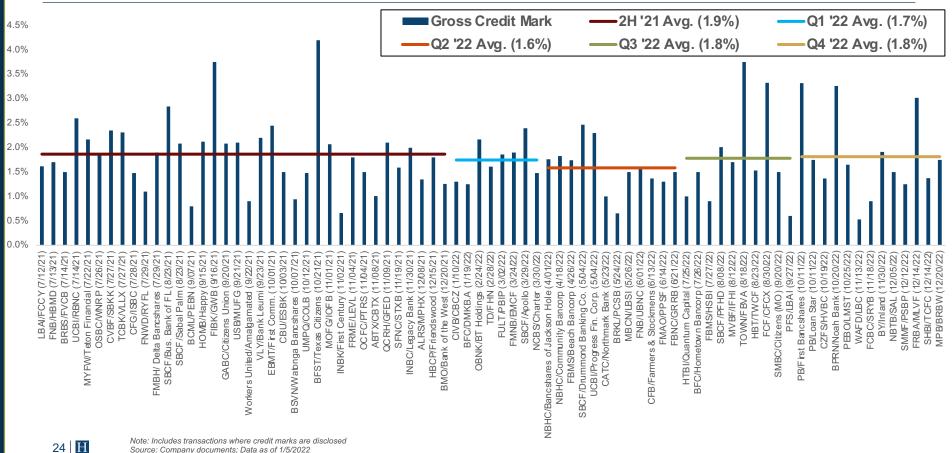


### BANKS APPEAR TO BE WELL RESERVED UTILIZING TRADITIONAL METRICS

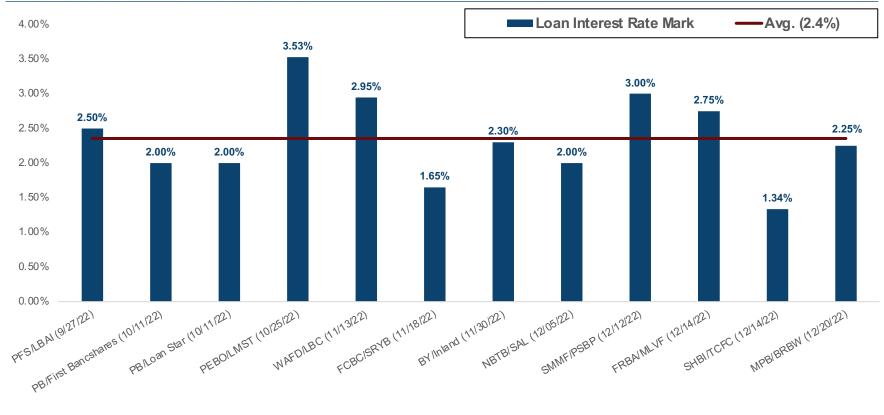


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### CREDIT MARKS SINCE JUNE 30, 2021



### GROSS LOAN INTEREST RATE MARKS SINCE SEPTEMBER 1, 2022



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### BANK EARNINGS OUTLOOK



(Sunny)

Higher Loan Yields

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(Mostly Cloudy)

Costs of Deposits



(Cloudy)

Drag of Underwater Securities



(Thunderstorms) 60% Chance

Credit Quality



(Rain)

Inflation on Operating Costs



(Cloudy)

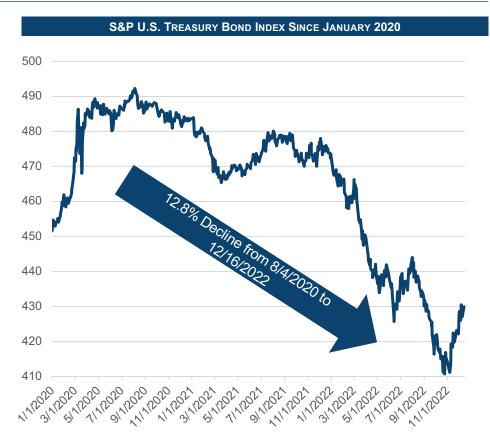
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III BANK CAPITAL IS BECOMING A CONCERN

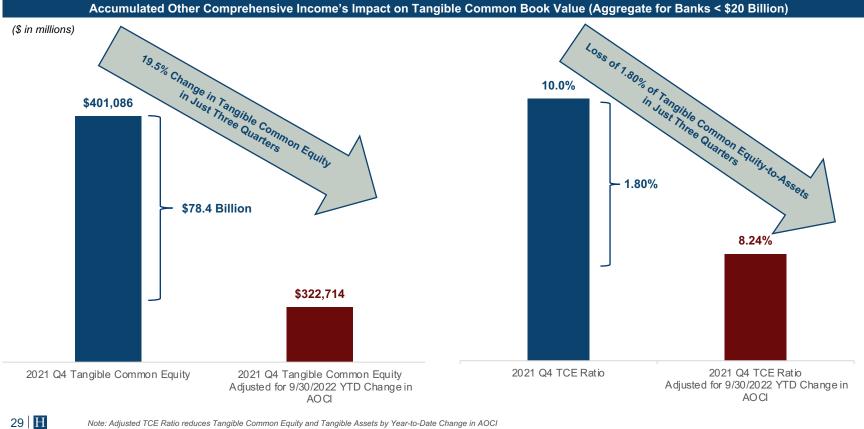


### DEBT SECURITIES HAVE SUFFERED HISTORIC LOSSES

- The S&P US Treasury Bond Index has suffered a 12.8% decline since its high in 2020.
- By some counts, U.S. Treasuries have had their worst performance since 1788<sup>1</sup>.
- The S&P U.S. Treasury Bond Index dropped 19.8% between August 4, 2020 and October 24, 2022.

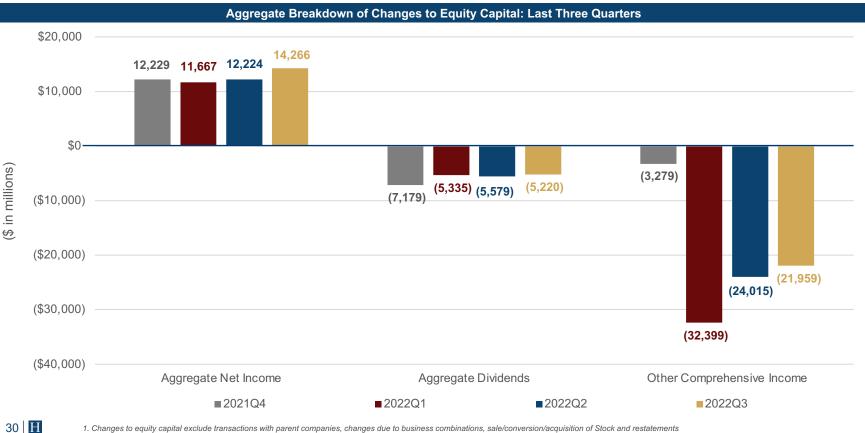


### EFFECT OF UNREALIZED BOND LOSSES ON CAPITAL



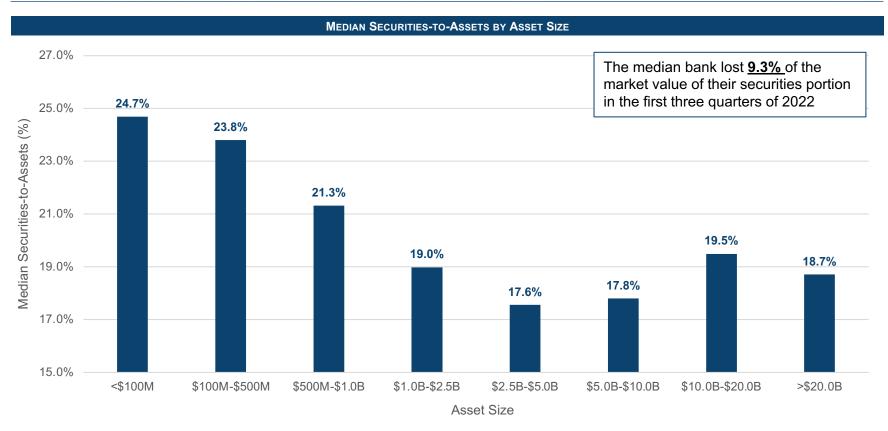
Note: Adjusted TCE Ratio reduces Tangible Common Equity and Tangible Assets by Year-to-Date Change in AOCI Note: Includes all Commercial Banks, Savings Banks and Savings & Loan Associations with less than \$20 billion in assets and a loan-to-deposit ratio greater than 1% Source: S&P Global Market Intelligence

### THE EFFECTS OF UNREALIZED LOSSES<sup>1</sup>



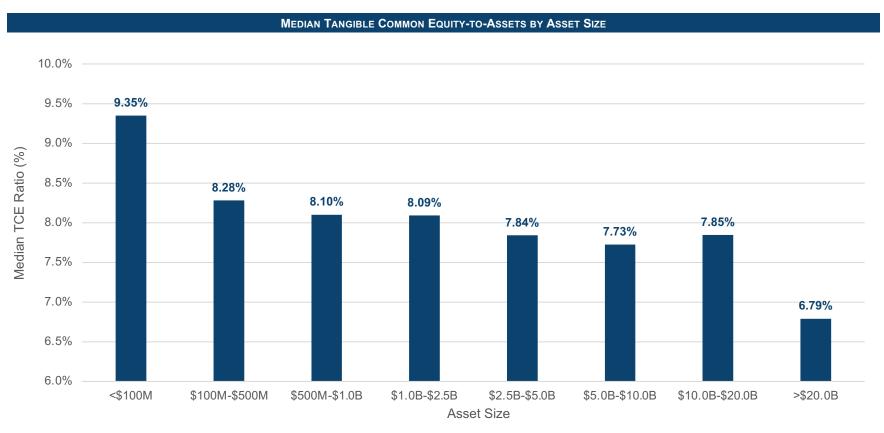
 Changes to equity capital exclude transactions with parent companies, changes due to business combinations, sale/conversion/acquisition of Stock and restatements Note: Includes all Commercial Banks, Savings Banks and Savings & Loan Associations with less than \$20 billion in assets and a loan-to-deposit ratio greater than 1% Source: S&P Global Market Intelligence

### SECURITIES PORTFOLIO BY SIZE OF BANK



Notes: Includes all commercial banks, savings banks and savings & loan associations (top tier consolidated), MRQ loans-to-deposits greater than 1% Source: S&P Capital IQ Pro

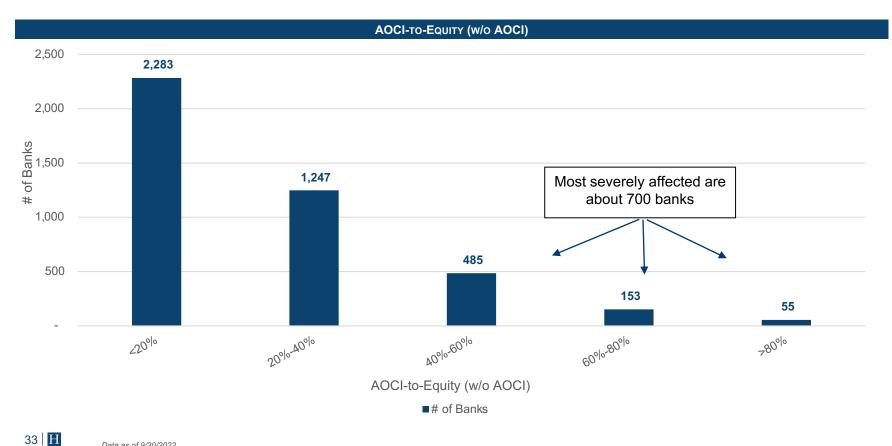
### TANGIBLE CAPITAL LEVELS BY ASSET SIZE



32 **H** 

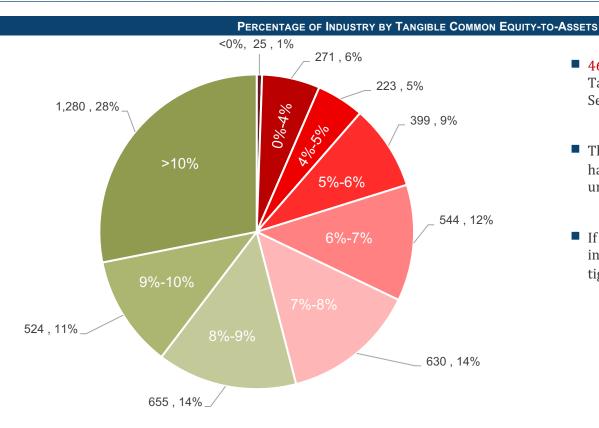
Notes: Includes all commercial banks, savings banks and savings & loan associations (top tier consolidated), MRQ loans-to-deposits greater than 1% Source: S&P Capital IQ Pro

### INTEREST RATE HIKES HAVE AFFECTED BANK'S SECURITIES PORTFOLIOS



Data as of 9/30/2022 Source: S&P Capital IQ Pro

### FED RATE INCREASES HAVE DEPLETED BANK CAPITAL



- 46.0% of banks have less than 8% Tangible Common Equity-to-Assets as of September 30, 2022.
- The unprecedented pace of rate increases have caused bank bond portfolios to go underwater.
- If interest rates continue to rise, the industry's capital ratios may become even tighter.

Note: Legend (# of Banks, % of Industry) Notes: Includes all commercial banks, savings banks and savings & Ioan associations (top tier consolidated), MRQ Ioans-to-deposits greater than 1% Source: S&P Capital IQ Pro; Data as of 9/30/2022

### **REGULATORY TOOL KIT FOR AOCI PROBLEMS?**

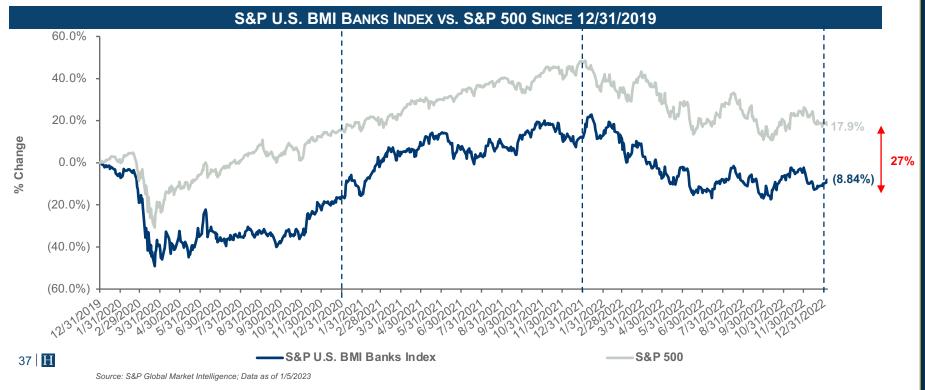


### IV THE IMPACT ON BANK STOCK PRICES AND M&A



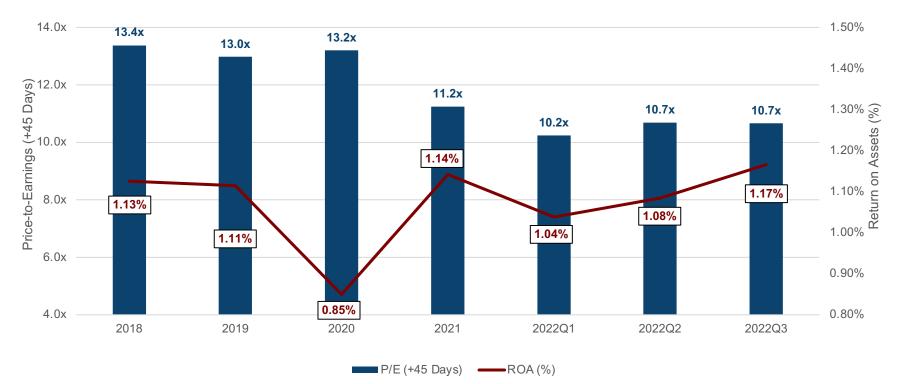
# THE BANK STOCK MARKET GRAPPLES WITH CONTINUED UNCERTAINTIES IN 2023

- Massive stimulus helped to propel the broad market to new highs by year-end 2020 and continued its run throughout 2021
- Skepticism about bank earnings stemming from concerns about asset quality and NIM compression have left financial stocks out of the rally
- The Biden administration poses new risks for bank earnings with added pressure on fee income and compliance costs
- Inflation, rapid Fed rate increases and recession fears have dampened the market performance in 2022 and hindered the outlook for 2023



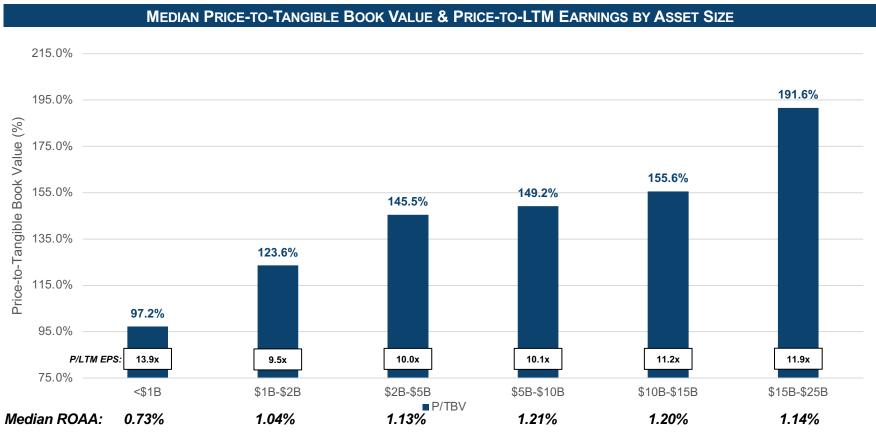
#### MEDIAN PRICE-TO-EARNINGS AND ROA SINCE 2018

#### Price-to Earnings vs. Return on Assets



38 **H** 

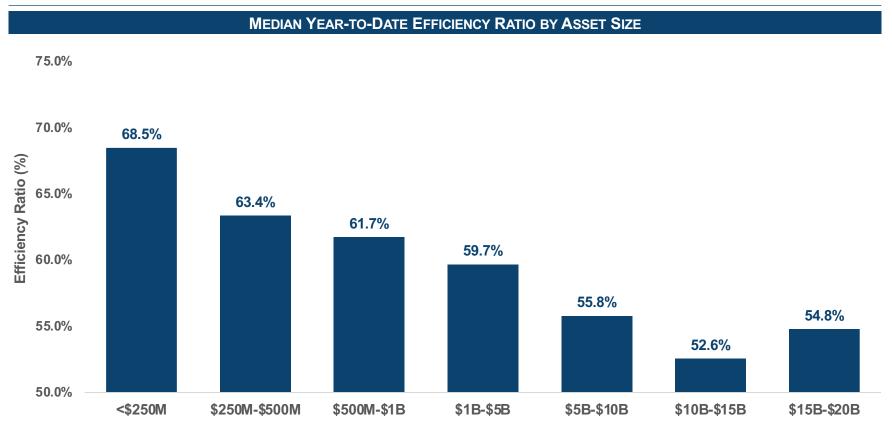
### MARKET PRICING BY ASSET SIZE - STILL A STRONG PREFERENCE FOR SIZE



39 **H** 

Note: Includes all banks traded on the NYSE and NASDAQ exchanges Source: S&P Global Market Intelligence; Data as of 1/5/2023

#### ACHIEVING ECONOMIES OF SCALE WITH SIZE

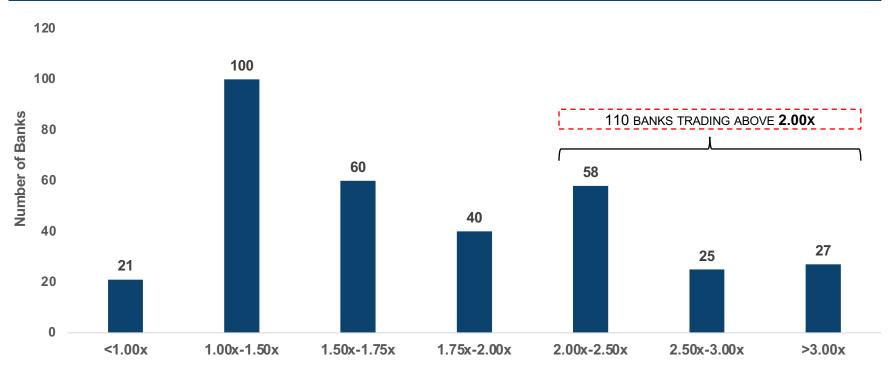


40 | **H** 

Note: Includes all commercial banks and savings banks Source: S&P Global Market Intelligence; Data as of 9/30/2022

#### BANKS ARE TRADING HIGHER ON TBV AS AOCI LOSSES MOUNT

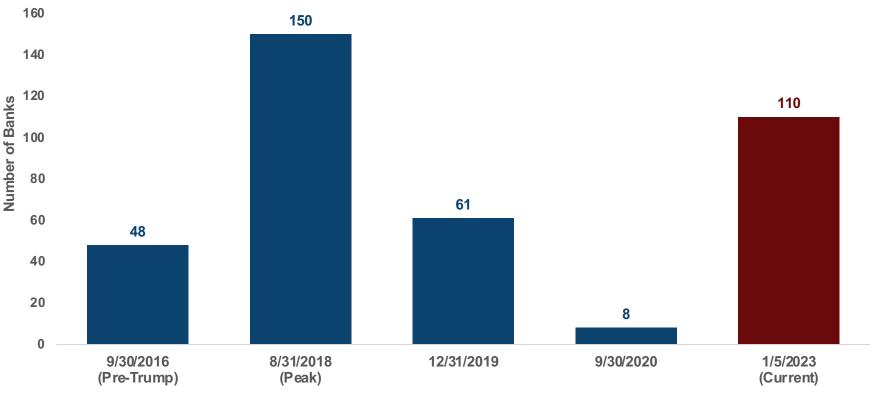




Note: Includes all banks traded on the NYSE and NASDAQ exchanges where price-to-tangible book metrics are available Source: S&P Global Market Intelligence; Data as of 1/5/2023

#### AOCI HAS ARTIFICIALLY INFLATED BANKS' PRICE-TO-TANGIBLE BOOK VALUE

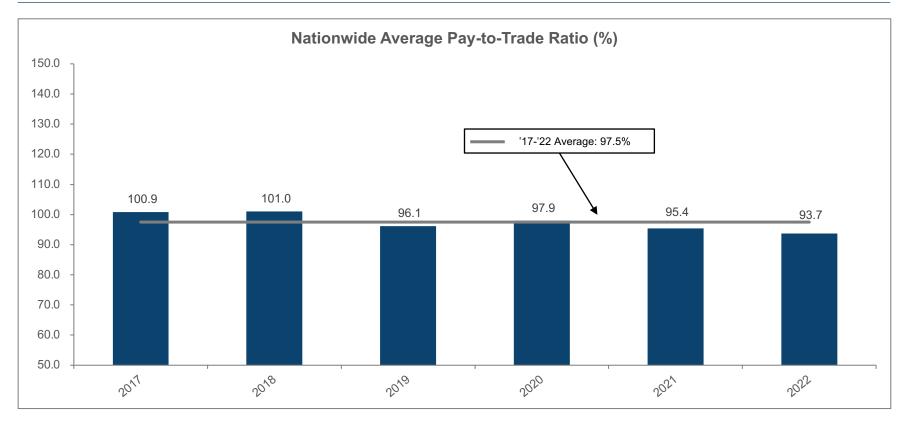
#### NUMBER OF BANKS WITH PRICE-TO-TANGIBLE BOOK VALUES GREATER THAN 2.00X



42 **H** 

Note: Includes all banks traded on the NYSE and NASDAQ exchanges where price-to-tangible book metrics are available Source: S&P Global Market Intelligence; Data as of 1/5/2023

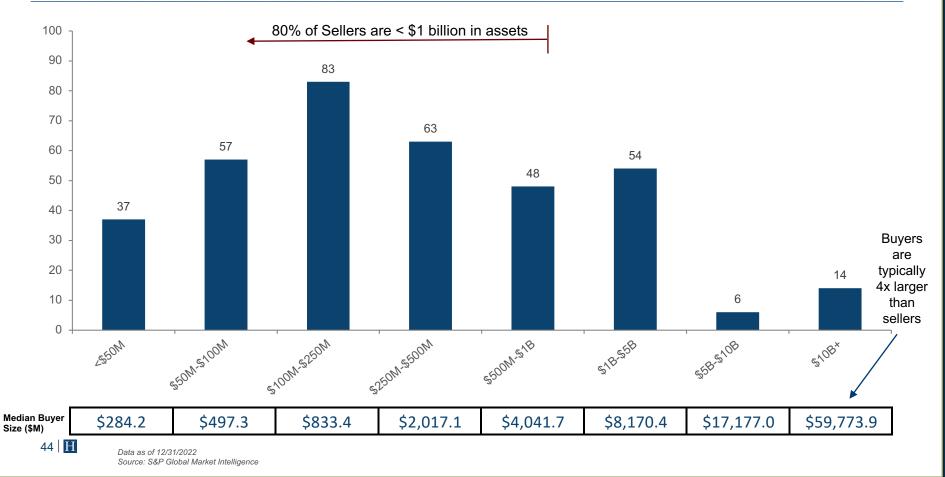
#### WHOLE BANK & THRIFT M&A TRENDS: PAY-TO-TRADE RATIO



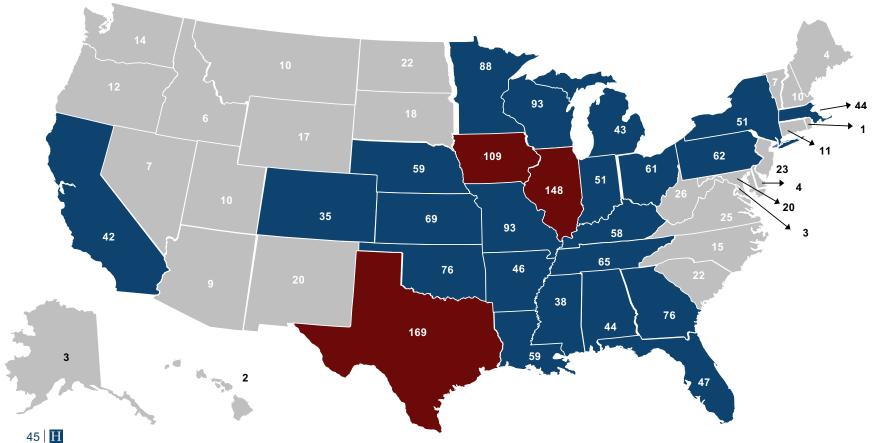
Note: Includes all stock transactions Data as of 12/31/2022 Source: S&P Global Market Intelligence

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#### SELLERS BY SIZE OF BANK FOR 2021 AND 2022

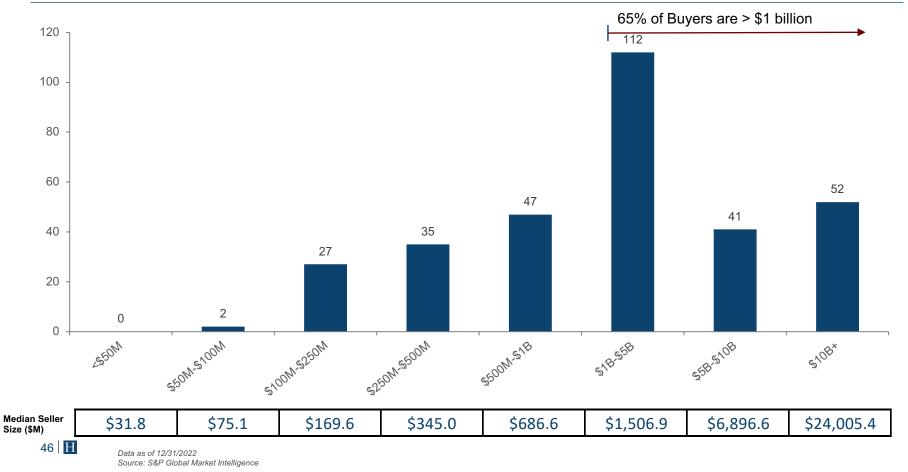


### NUMBER OF COMMERCIAL AND SAVINGS BANKS BY STATE: \$200 MILLION - \$1 BILLION

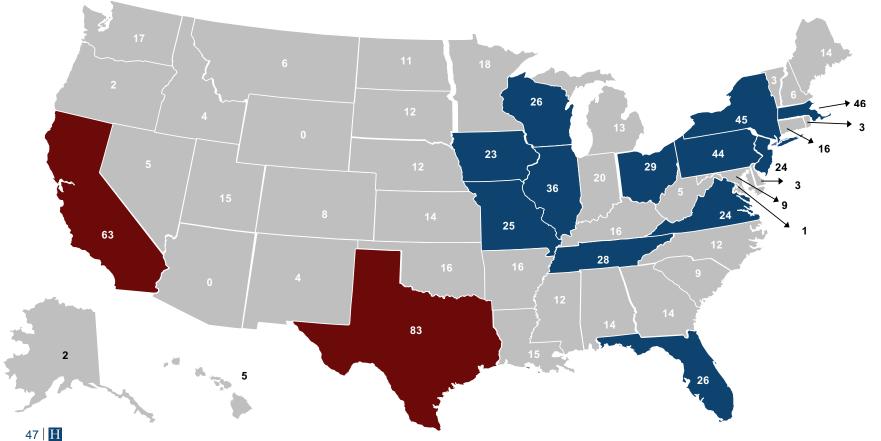


Note: Institutions screened 12/31/2022; Includes all top tier consolidated regulated depositories; Grey = 0-30, Blue = 30-100, Red = >100 Source: S&P Global Market Intelligence

#### BUYERS BY SIZE OF BANK FOR 2021 AND 2022



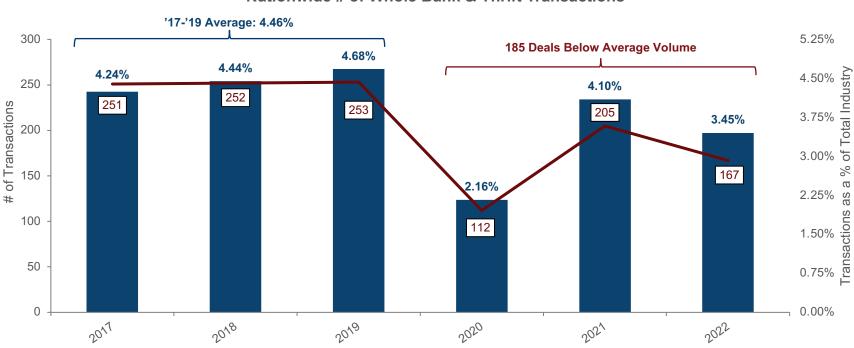
## NUMBER OF COMMERCIAL AND SAVINGS BANKS BY STATE: \$1 BILLION - \$50 BILLION



Note: Institutions screened 12/31/2022; Includes all top tier consolidated regulated depositories; Grey = 0-20, Blue = 20-50, Red = >50 Source: S&P Global Market Intelligence

#### BACKLOG OF PENT UP SELLER DEMAND

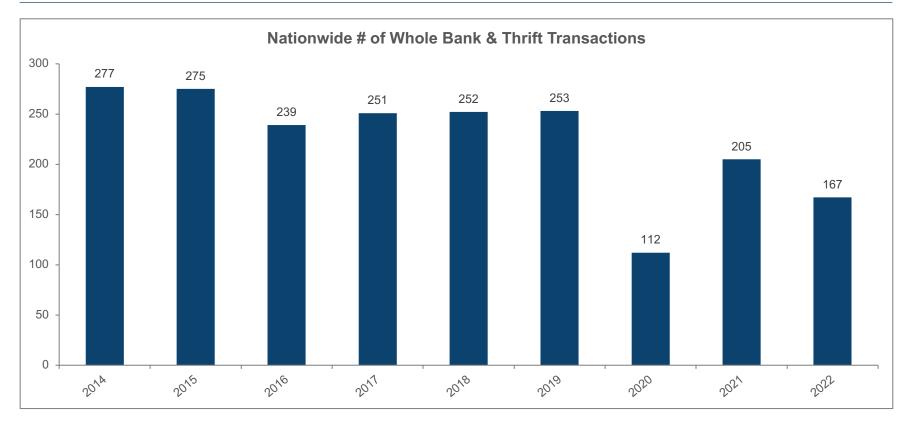
48 **H** 



Nationwide # of Whole Bank & Thrift Transactions

Note: Transactions as a % of Total Industry is based on the total number of FDIC-insured institutions for the previous year Data as of 12/31/2022 Source: S&P Global Market Intelligence

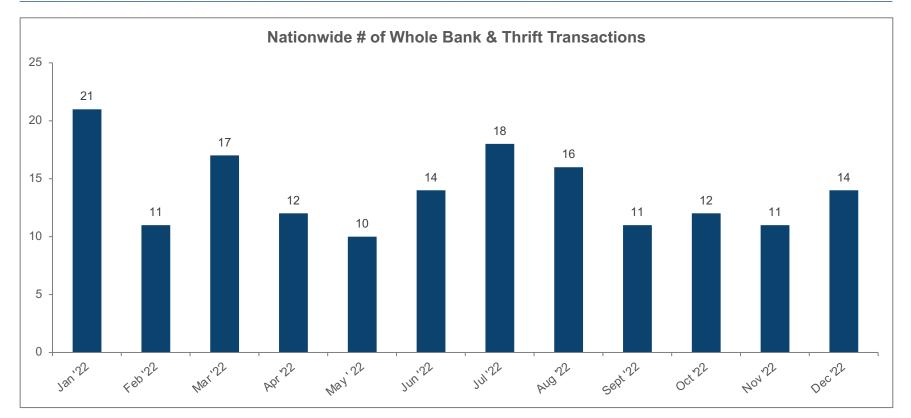
#### WHOLE BANK & THRIFT M&A TRENDS



Data as of 12/31/2022 Source: S&P Global Market Intelligence

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#### MONTHLY WHOLE BANK & THRIFT M&A TRENDS

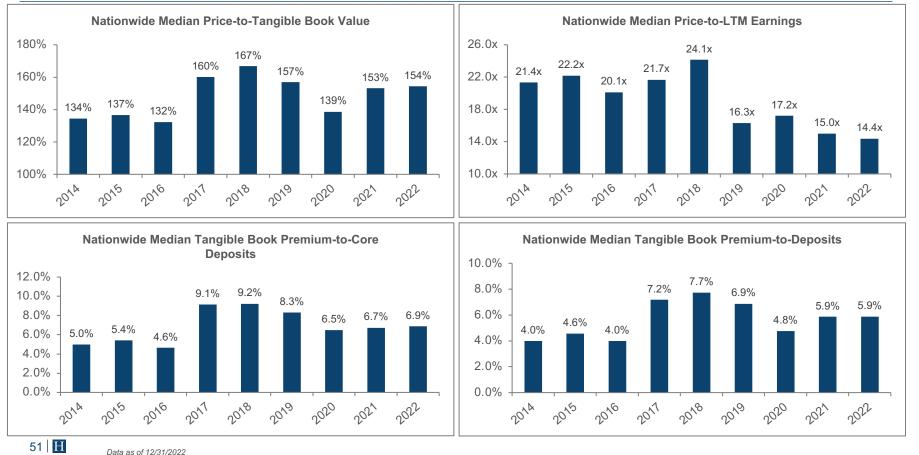


Data as of 12/31/2022 Source: S&P Global Market Intelligence

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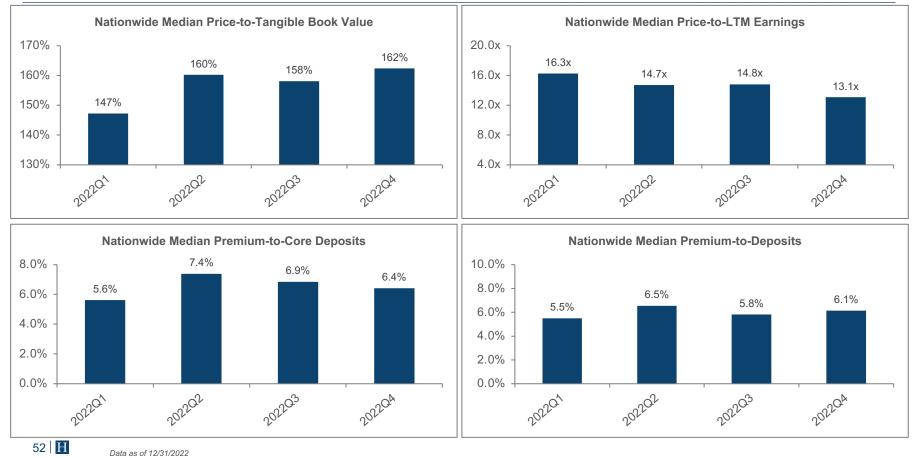
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#### WHOLE BANK & THRIFT M&A TRENDS



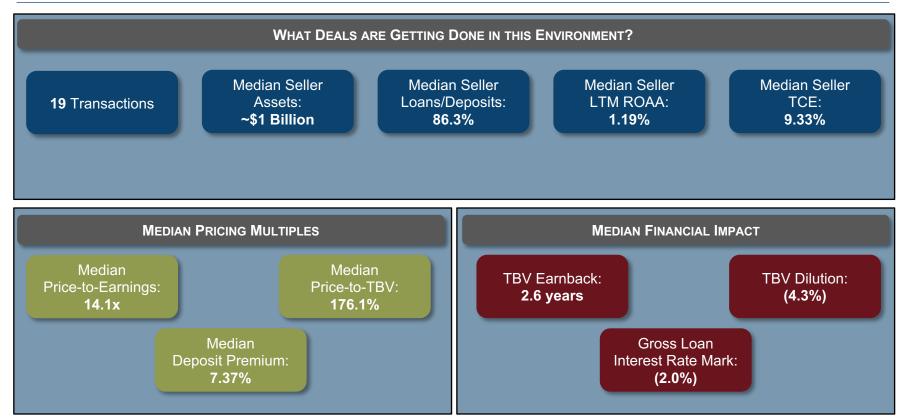
Source: S&P Global Market Intelligence

#### QUARTERLY BANK & THRIFT M&A TRENDS



Source: S&P Global Market Intelligence

#### **M&A DEALS MEDIANS SINCE SEPTEMBER 1ST**



## THE SHAPE OF M&A DEALS IN THE CURRENT ENVIRONMENT



#### WHAT CREATES VALUE FOR BANKS?

# CHARACTERISTICS ENHANCING VALUE

# CHARACTERISTICS LIMITING VALUE

- History of organic growth
- Core profitability from NIM and fee income
- Market with organic loan demand
- Core low-cost depository relationships
- Synergies with buyer
- Willingness to take stock as consideration especially publicly traded
- Wealth management income
- Strong management bench

- Non-organic growth
- Markets with low or negative growth demographics
- Transactional earnings (mortgage and asset sales)
- High funding costs or non-core funding
- Reliance on key individual(s) with flight risk
- Specialty lending or other niche or ethnic focus
- Requirement of cash as consideration

# V WHAT IS NEXT?



### DEPOSITS ARE THE NEW BATTLEFIELD - FINTECH CAN BE AN ALLY

COMMUNITY BANKS

VS.

BIG-5 BANKS, LARGE REGIONALS & CREDIT UNIONS

Community Banks have approximately a 10% to 14% market share of primary checking accounts.



### FINAL THOUGHTS FOR 2023

#### **OBSERVATIONS**

- Bank capital strains could potentially intensify with credit and/or liquidity developments
- Focusing on percentage ownership vs. nominal price can identify favorable merger opportunities
- We are in the lowest tax environment for the rest of our lifetimes

#### ACTION STEPS

- Raising additional capital while the window is open appears wise
  - ✓ Transformational opportunities may be available to those with capital
  - ✓ The risk/reward analysis favors having it on hand

Strategic planning is critical – keep your board informed and ready to act

#### HOVDE GROUP PROFESSIONALS & CONTACT INFORMATION

#### HOVDE GROUP OVERVIEW

Hovde Group, LLC is a leading U.S. financial advisory group that provides a full-service suite of investment banking, capital markets, financial advisory, sales and trading, and equity research services focused exclusively on the banking industry. It has been a leading advisor in the banking sector for over 35 years.

Hovde's experienced professionals advise banks across all 50 states and provide the expertise, resources and focus necessary to structure, negotiate and successfully close the most complex strategic M&A and capital transactions.

#### HOVDE GROUP OFFICE LOCATIONS



INVESTMENT BANKING PROFESSIONALS						
Contact	TITLE	OFFICE	EMAIL	PHONE		
Nick Barbarine	Senior Managing Principal	West Palm Beach	nbarbarine@hovdegroup.com	(301) 983-1897		
Curtis Carpenter	Senior Managing Director	Austin	ccarpenter@hovdegroup.com	(512) 900-8366		
Michael Corso	Managing Principal & Head of Depositories	Charlotte	mcorso@hovdegroup.com	(312) 614-0522		
Will Curtiss	Director	Nashville	wcurtiss@hovdegroup.com	(615) 783-1638		
Sean Enright	Director	Charlotte	senright@hovdegroup.com	(856) 371-1256		
Chris Hemler	Director	Tysons	chelmer@hovdegroup.com	(703) 214-4199		
James Hill	Managing Director	Los Angeles	jhill@hovdegroup.com	(949) 494-0879		
Doug Hillhouse	Managing Director	Charlotte	dhillhouse@hovdegroup.com	(312) 361-3551		
Kirk Hovde	Managing Principal & Head of Investment Banking	Chicago	khovde@hovdegroup.com	(312) 436-0779		
Steve Hovde	Chairman & CEO	Chicago	shovde@hovdegroup.com	(847) 991-6622		
Craig Mancinotti	Senior Managing Director	Toledo	cmancinotti@hovdegroup.com	(419) 215-5442		
Rick Maroney	Senior Managing Director	Toledo	rmaroney@hovdegroup.com	(419) 215-5117		
Mike Moran	Managing Director	Toledo	mmoran@hovdegroup.com	(517) 749-3914		
Tim Stute	Managing Director & Head of Specialty Finance	Tysons	tstute@hovdegroup.com	(703) 214-8520		
Jason Trembley	Managing Director	Atlanta	jtrembley@hovdegroup.com	(404) 587-6935		
	CAPITAL N	ARKETS PROF	ESSIONALS			
David Bishop	Director, Research	Sykesville d	bishop@hovdegroup.com	(443) 610-7379		

CAPITAL MARKETS PROFESSIONALS						
David Bishop	Director, Research	Sykesville	dbishop@hovdegroup.com	(443) 610-7379		
Rich Gerdy	Vice President, Equity Trading	Chicago	rgerdy@hovdegroup.com	(678) 733-9057		
Ben Gerlinger	Analyst, Research	Atlanta	bgerlinger@hovdegroup.com	(952) 380-7882		
Mike Hedrei	Managing Principal & Head of Capital Markets	Colorado	mhedrei@hovdegroup.com	(720) 277-3718		
Tim Horton	Director, Institutional Sales	Atlanta	thorton@hovdegroup.com	(678) 842-8501		
Rick Lowe	Director, Institutional Sales	Toledo	rlowe@hovdegroup.com	(216) 577-1655		
Brett Rabatin	Director of Research	Nashville	brabatin@hovdegroup.com	(615) 522-5334		
Christina Westmoreland	Managing Director & Head of Equity Trading	Atlanta	cwestmoreland@hovdegroup.com	(404) 593-4203		
Erik Zwick	Director, Research	Hockessin	ezwick@hovdegroup.com	(617) 510-1239		