

Breakout II: The Future of Community and Regional Banking

#A0BA23

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Acquire or Be Acquired 2023

The Future of Community and Regional Banking

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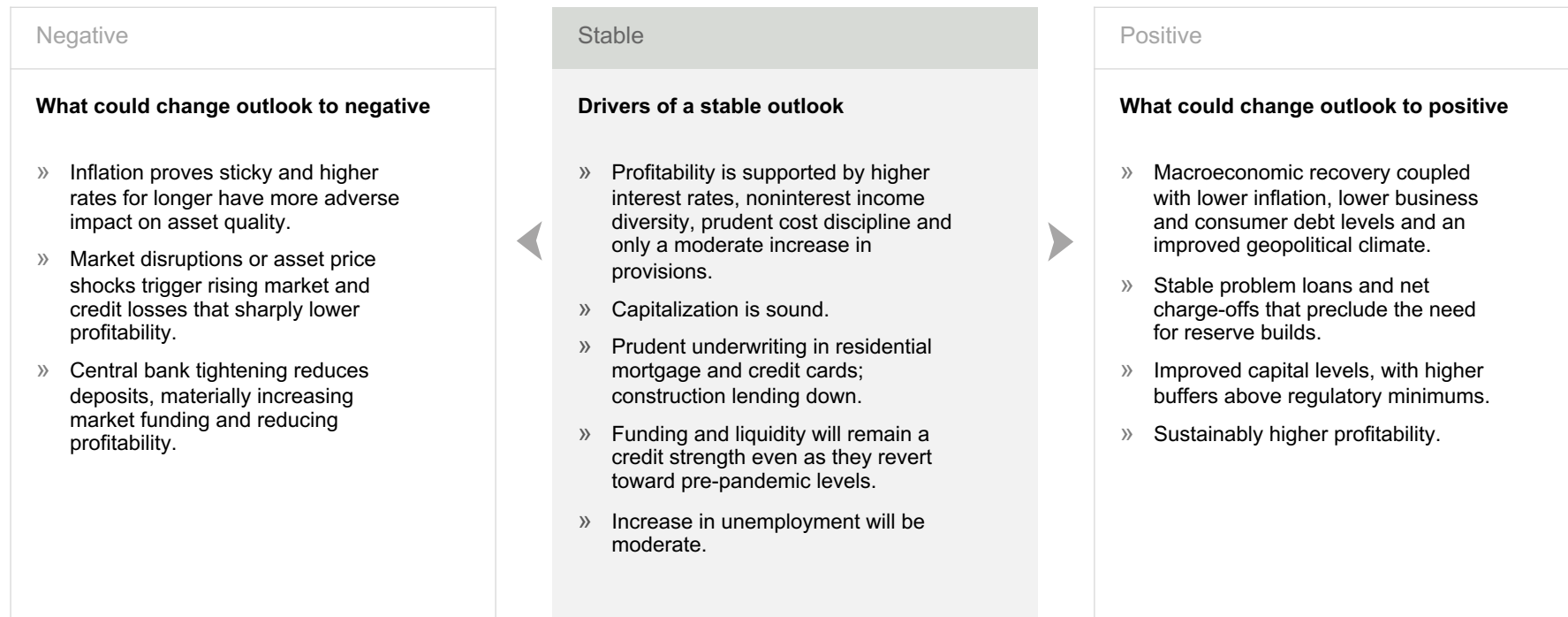
United States

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The 2023 US bank outlook is stable



The stable outlook reflects our view of credit fundamentals in the US banking sector over the next 12 months. Sector outlooks are distinct from rating outlooks, which, in addition to sector dynamics, also reflect issuers' specific characteristics and actions. A sector outlook does not represent a sum of upgrades, downgrades or ratings under review, or an average of rating outlooks.

Higher net interest margins counter effects of mild US recession and weaker asset quality

Operating environment deteriorating

Baseline is that slowing growth and tighter financial conditions tip the US into a mild recession in mid-2023.

The baseline is also for the US unemployment rate to rise gradually from its exceptional low of 3.5% as of end 2022 to a more normal level.

Key to the baseline forecast are for inflation to decline to around 3% by year-end 2023 and the Fed funds rate to peak at 5.0%-5.25%.

Asset quality deteriorating

Asset quality metrics are unsustainably strong and will weaken, though to a moderate level.

Rising interest rates have increased debt-servicing costs and refinancing risk for some borrowers.

US G-SIBs* generally at or above day one current expected credit losses (CECL). However, banks will need to build additional loan loss reserves as economic inputs relevant to CECL estimates begin to point toward higher losses.

Profitability improving

Rising interest rates have boosted net interest margin (NIM) and net interest income (NII) for most banks and will likely provide a full-year boost.

Fee income provides revenue diversity, though some sources are pressured by tighter financial conditions.

Trading revenue will moderate while investment banking fees will recover from a weak 2022.

Revenue growth will support positive operating leverage.

Capital stable

Risk-based capital requirements are increasing for some of the largest US banks, but unrealized losses on available-for-sale (AFS) securities are a capital headwind for these banks.

Among large US regional banks, capitalization has declined, and we only expect modest further capital reductions given some banks' publicly stated capital targets.

Funding and liquidity stable

Funding and liquidity are likely to retrace toward more normal levels.

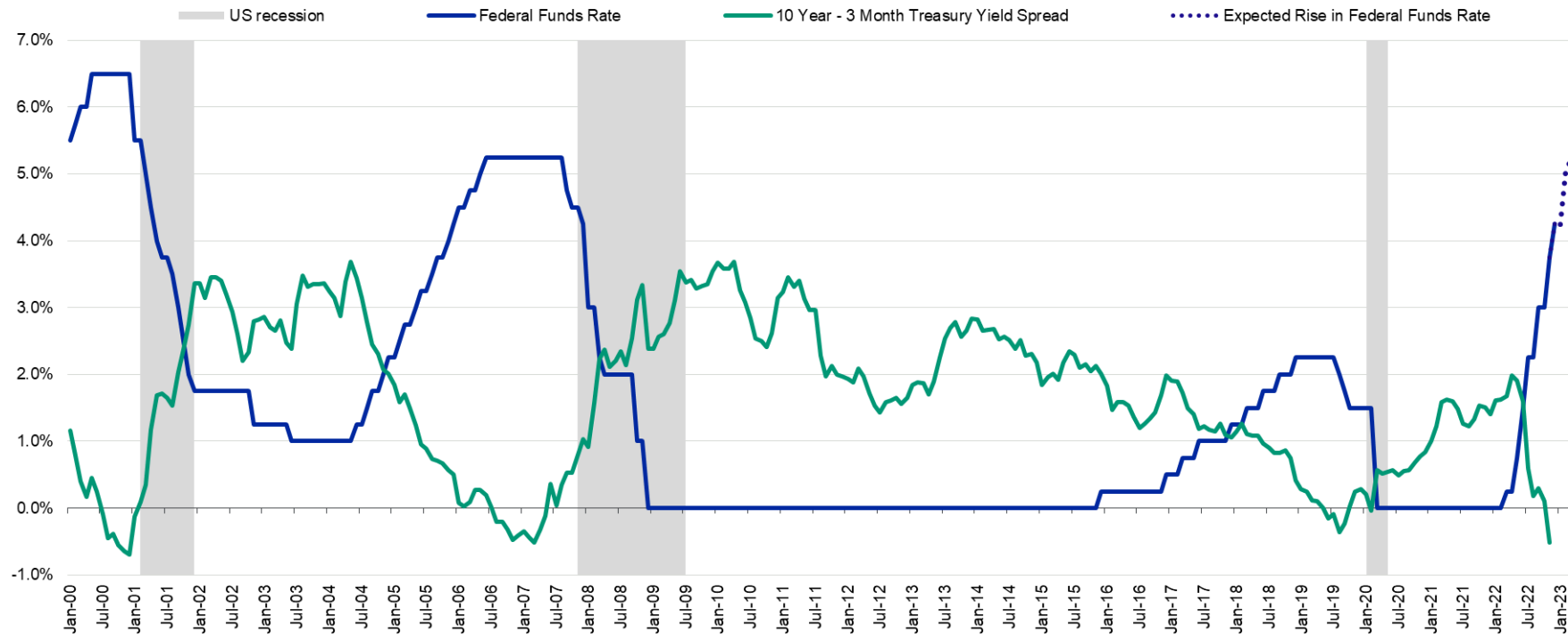
The US banking system's loan to deposit ratio is near multi-decade lows, even as loan growth exceeds deposit growth, but securities holdings are high. ~\$900 billion in Fed quantitative tightening could reduce bank funding further unless money funds move cash balances out of Fed and into T-bills.

Some US banks have increased wholesale funding and begun to run down liquidity to fund loan growth, with deposit growth stalled.

*G-SIBs = global systemically important banks.

Challenges for banks ahead

Interest rates rising and financial conditions tightening, posing risks to banks' asset quality and liquidity



The charts above show data from 31 January 2000 – 31 December 2022

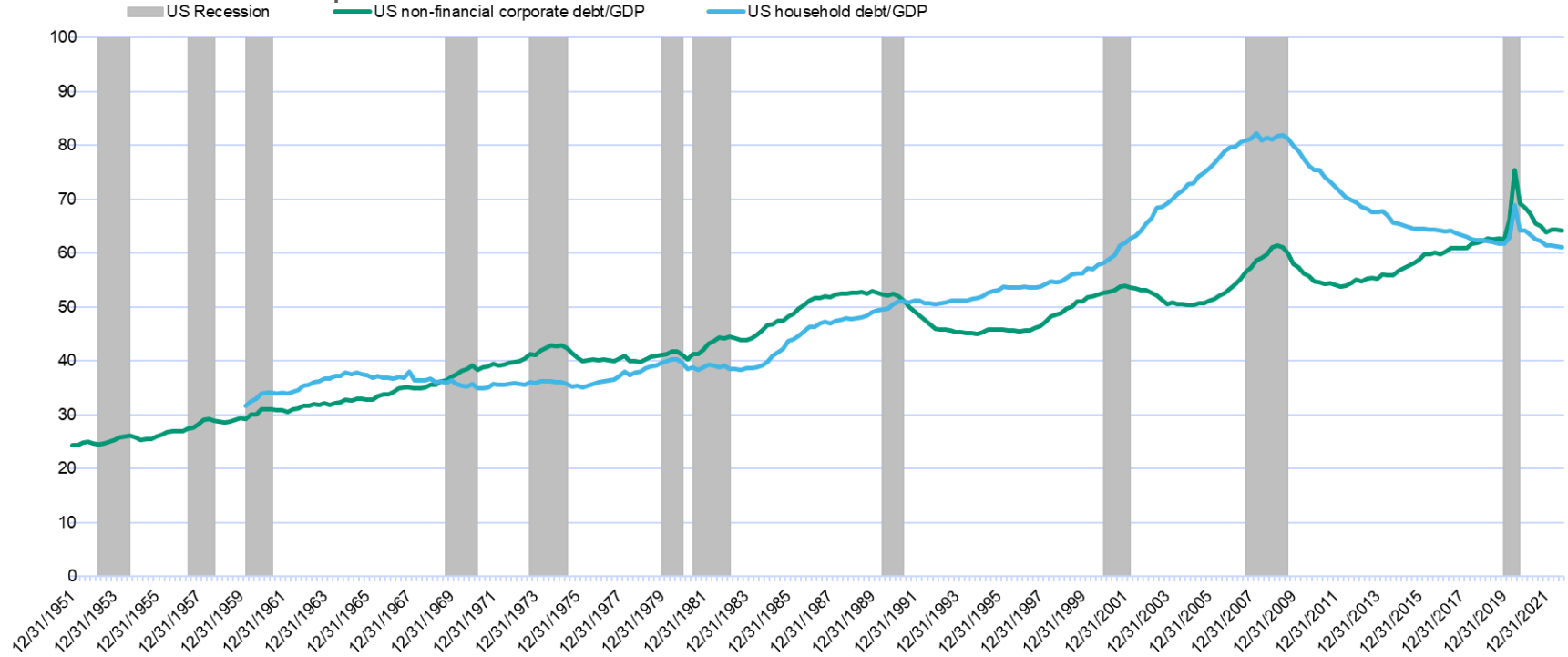
Source: U.S. Board of Governors of the Federal Reserve System, Bloomberg, Moody's Investors Service

Big picture reflections as 2023 starts

- Macro outlook on bank funding
 - Market failed to predict extent of Fed tightening; will it do better in 2023?
 - Fed quantitative tightening reduces bank deposits
 - Fed funds path influences where money funds keep their cash – in T-bills or at the Fed
 - Treasury debt limit dynamics are expected to reduce T-bill supply in H2 2023, implying money funds hold more cash at the Fed
 - Money funds compete with banks for reserve balances at the Fed – so where money funds invest their cash is relevant to bank deposit competition – both deposit beta and deposit runoff.

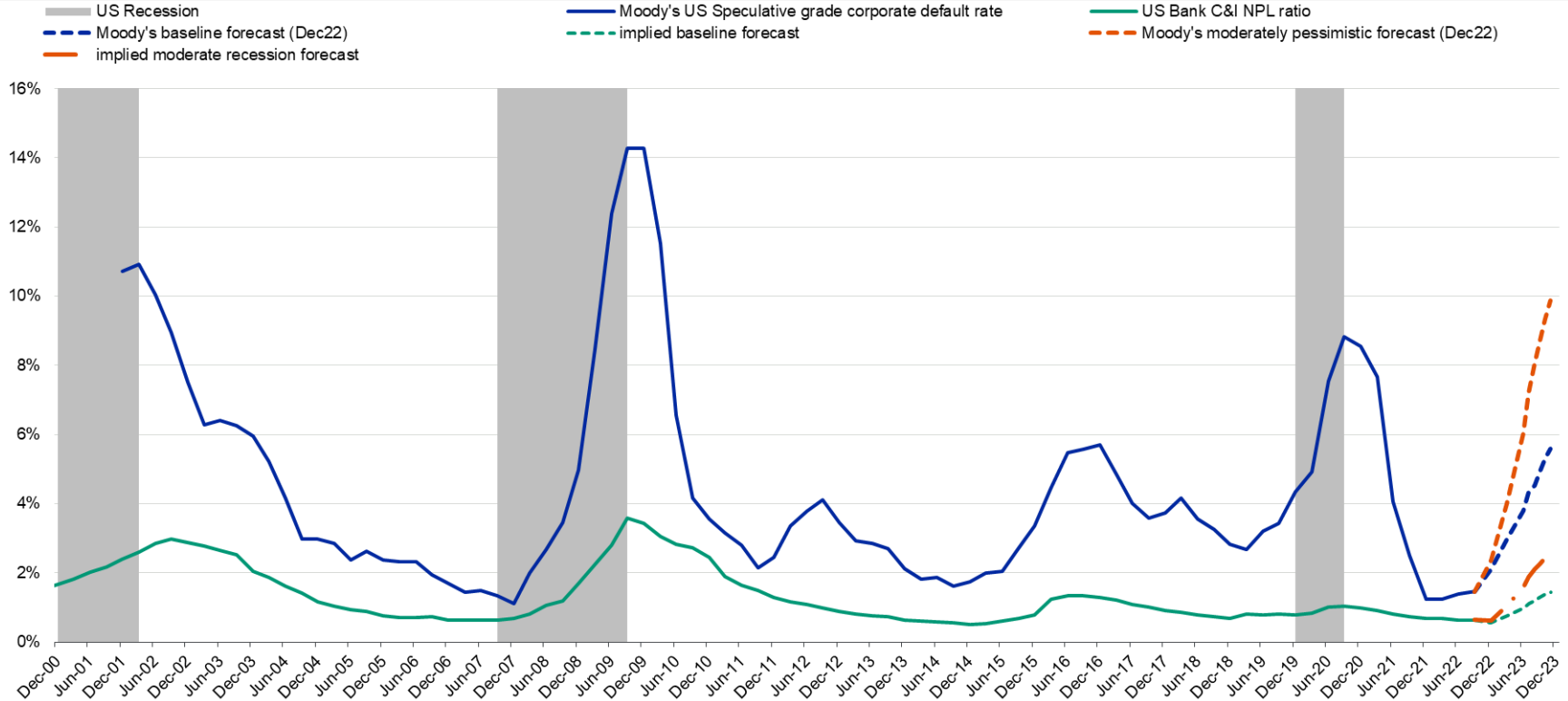
With mild recession likely in 2023, US corporate leverage is at highest level late-cycle since WW II era

US non-financial corporate debt/GDP and US household debt/GDP



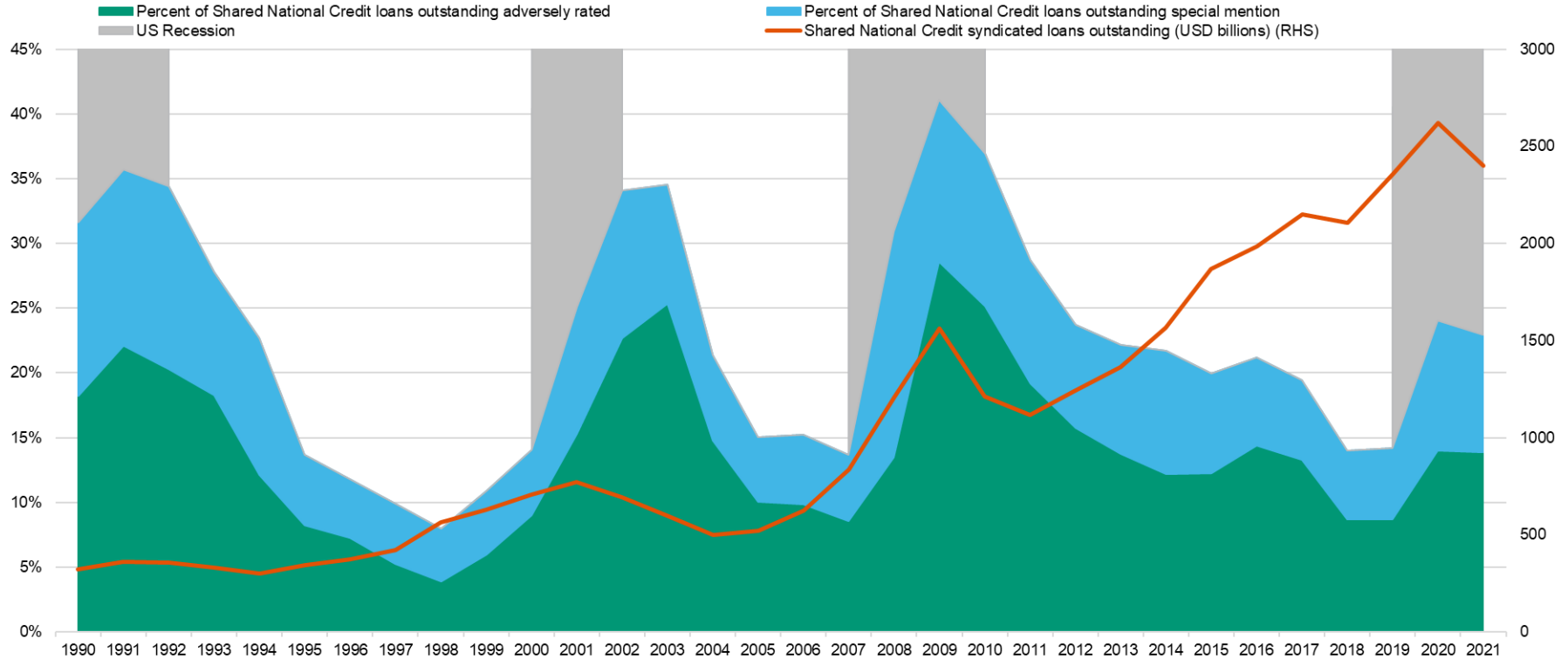
Source: Haver, Federal Reserve Board, National Bureau of Economic Research, Moody's Investors Service

Moody's baseline macro and corporate default forecasts imply US C&I non-performing loans (NPLs) rise to 1.3% in 2023



C&I = Commercial and Industrial. Source: Haver, Company Reports, Moody's Investors Service

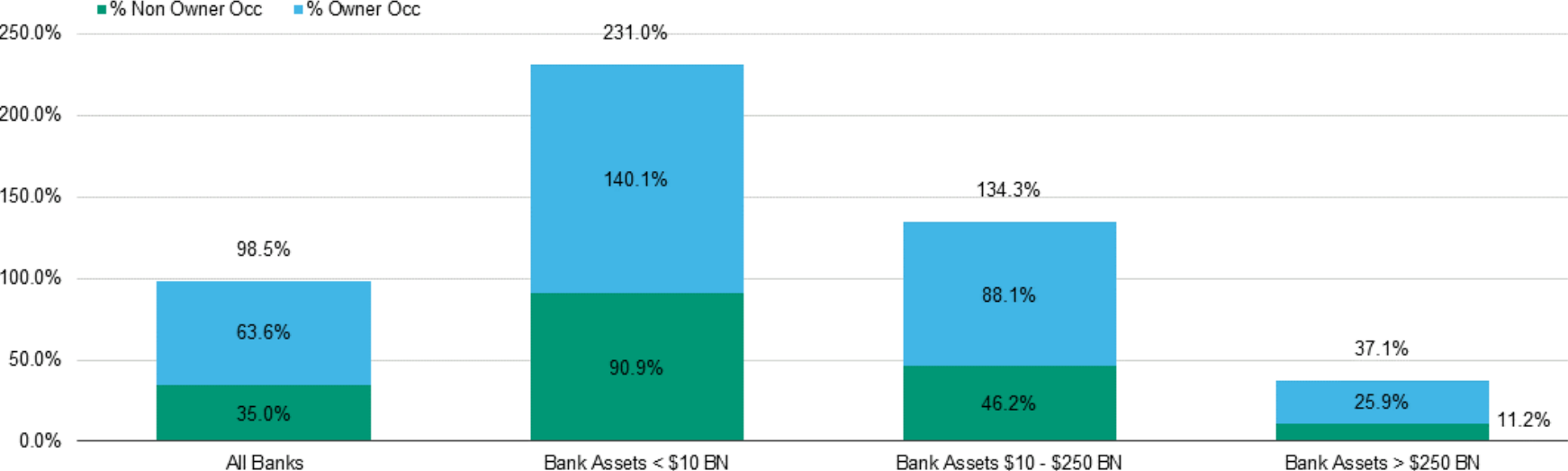
Shared National Credit trends suggest asset quality already weakening in US syndicated leverage lending



Source: Haver, Federal Reserve, Moody's Investors Service

Regional and community banks generally are more CRE concentrated

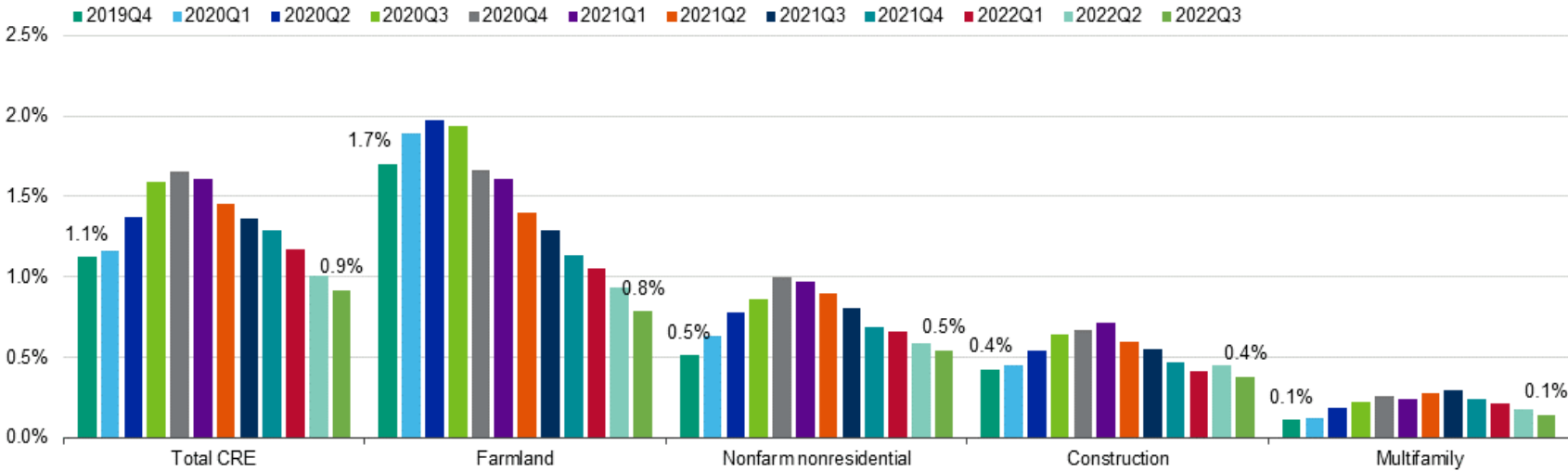
US bank CRE loans as % TCE by asset size, 30 Sept 2022



Source: FDIC Statistics on Depository Institutions, Moody's Investors Service

With higher rates and weaker economy, differentiation in the quality of banks' CRE underwriting will surface

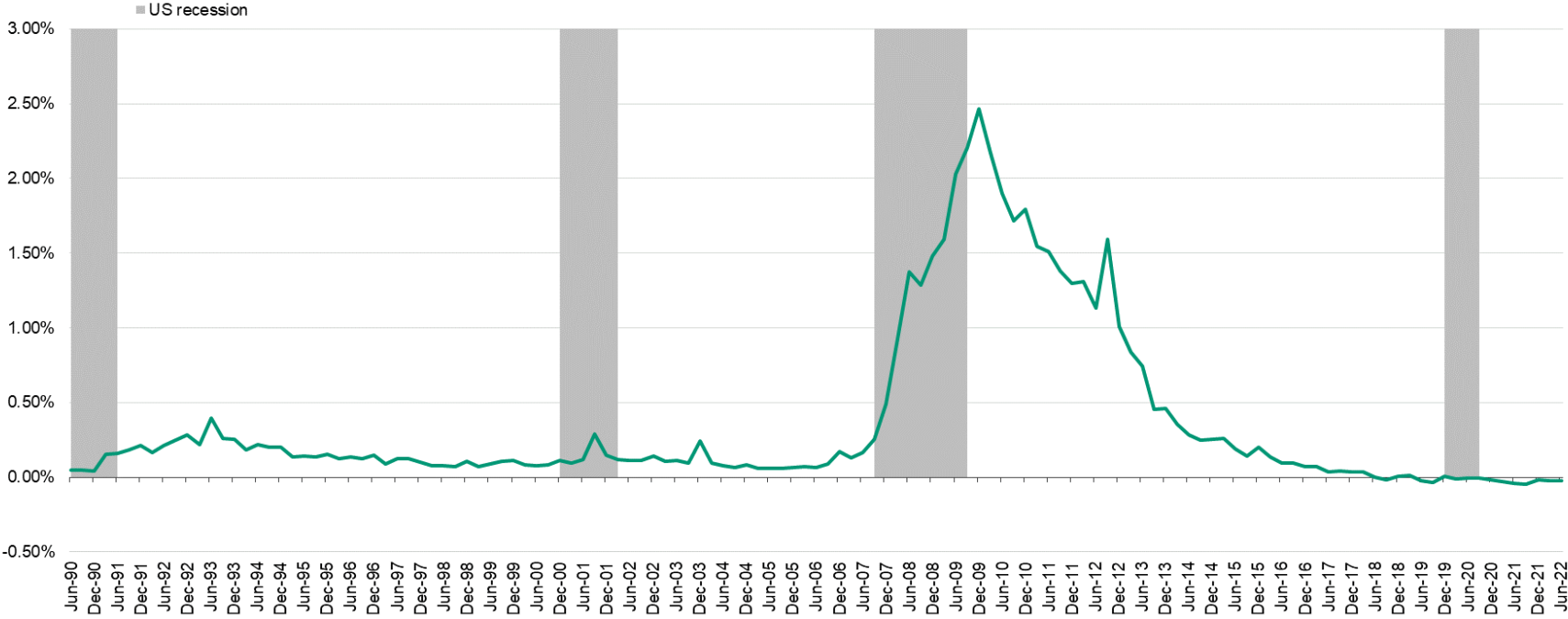
US banks CRE nonaccrual and 90+ past due loans, 31 Dec 2019 - 30 Sept 2022



Source: FDIC Statistics on Depository Institutions, Moody's Investors Service

US residential mortgage charge-offs expected to be most comparable to 1990-91 and 2001 recessions

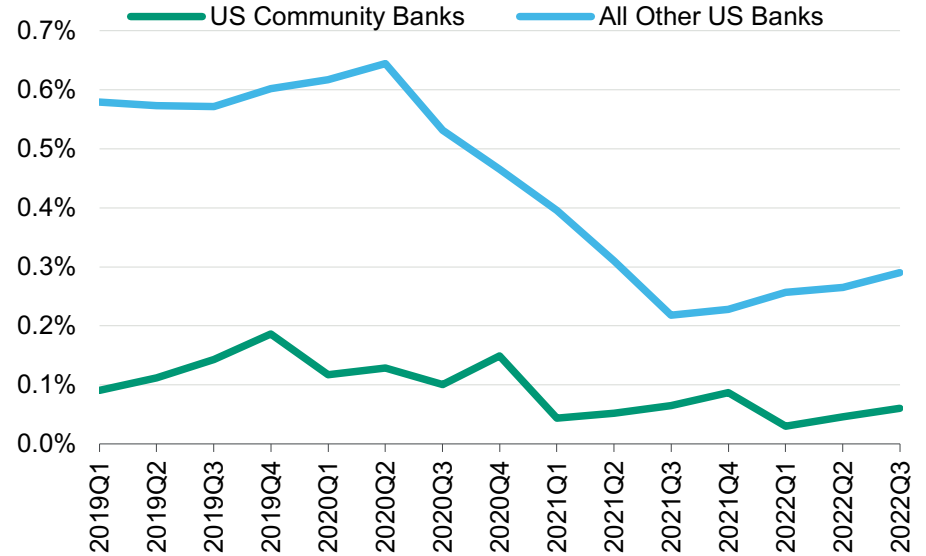
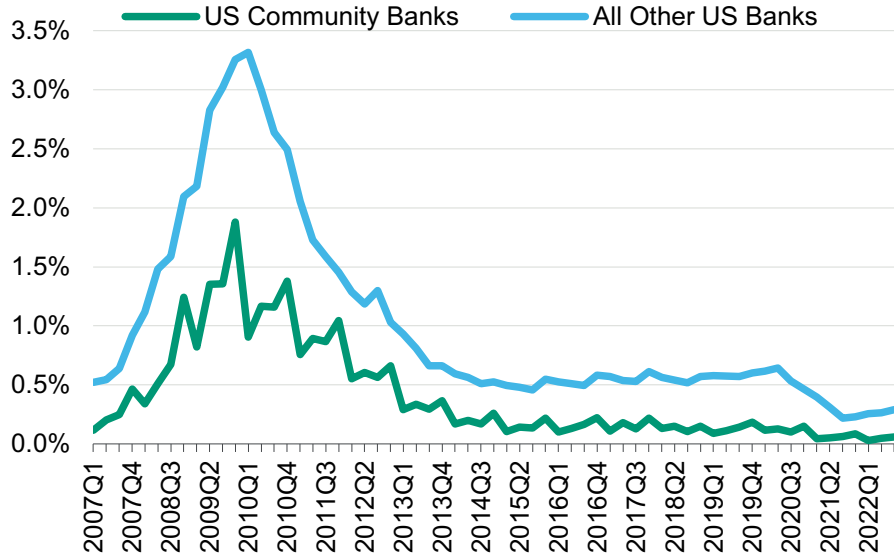
Bank residential mortgage charge-off %



Source: FDIC, Moody's Investors Service

Net charge-offs have been unsustainably low

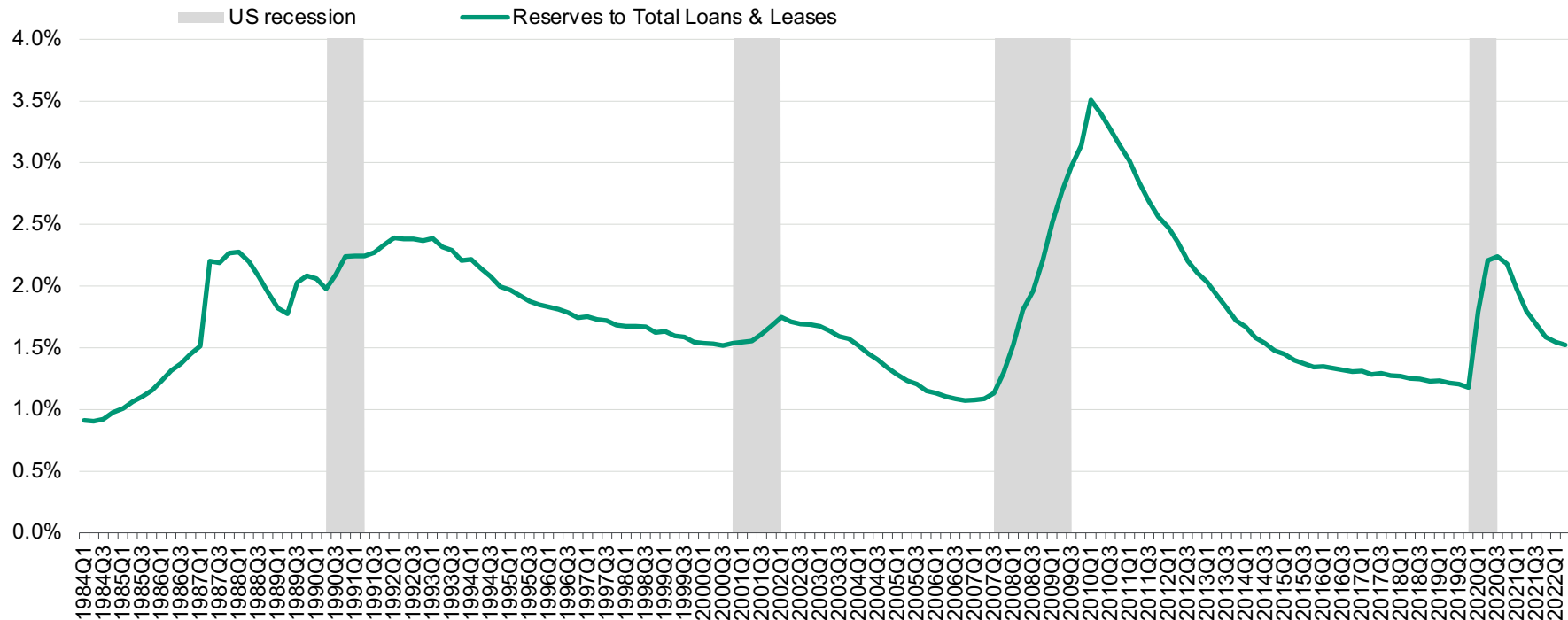
Net charge-off ratio: Left chart Q1 2007 - Q3 2022, Right chart Q1 2019 - Q3 2022



Source: FDIC, Moody's Investors Service

US banks' reserve coverage adequate, but more build likely

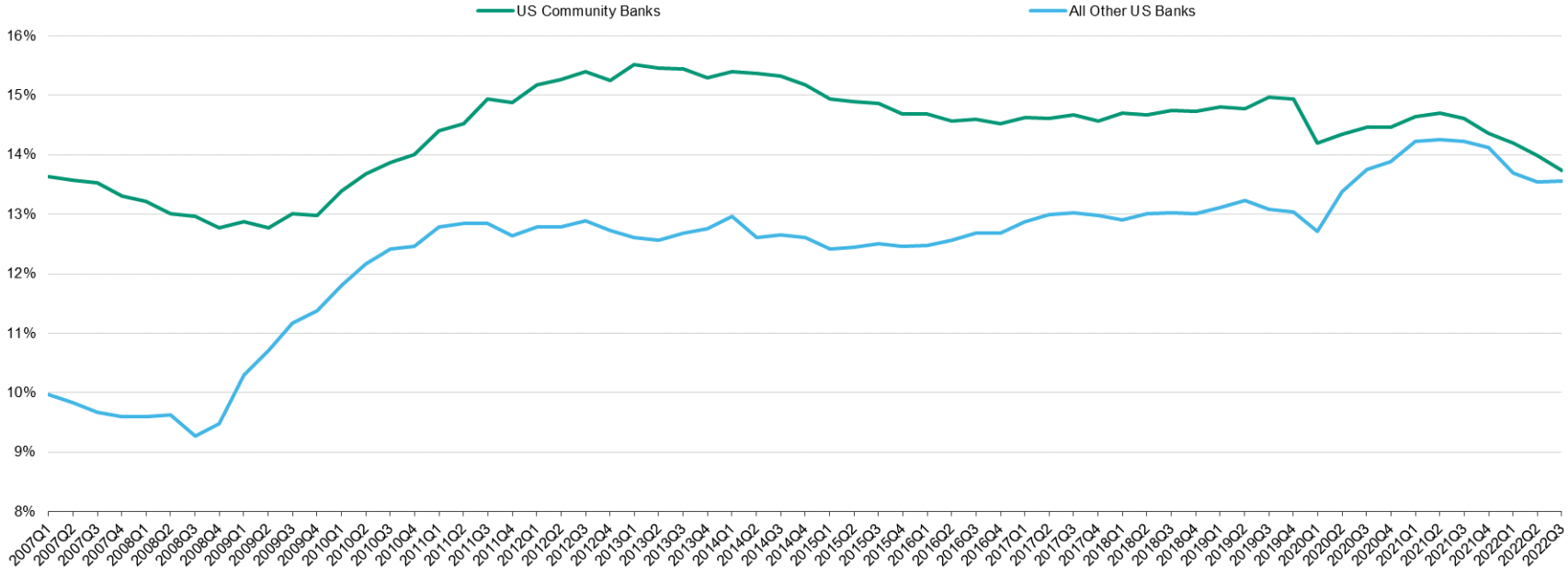
Loan loss reserves to total loans and leases, Q1 1984 – Q2 2022



Source: Haver, FDIC, Moody's Investors Service

The capital gap between community banks and all other US banks has narrowed significantly

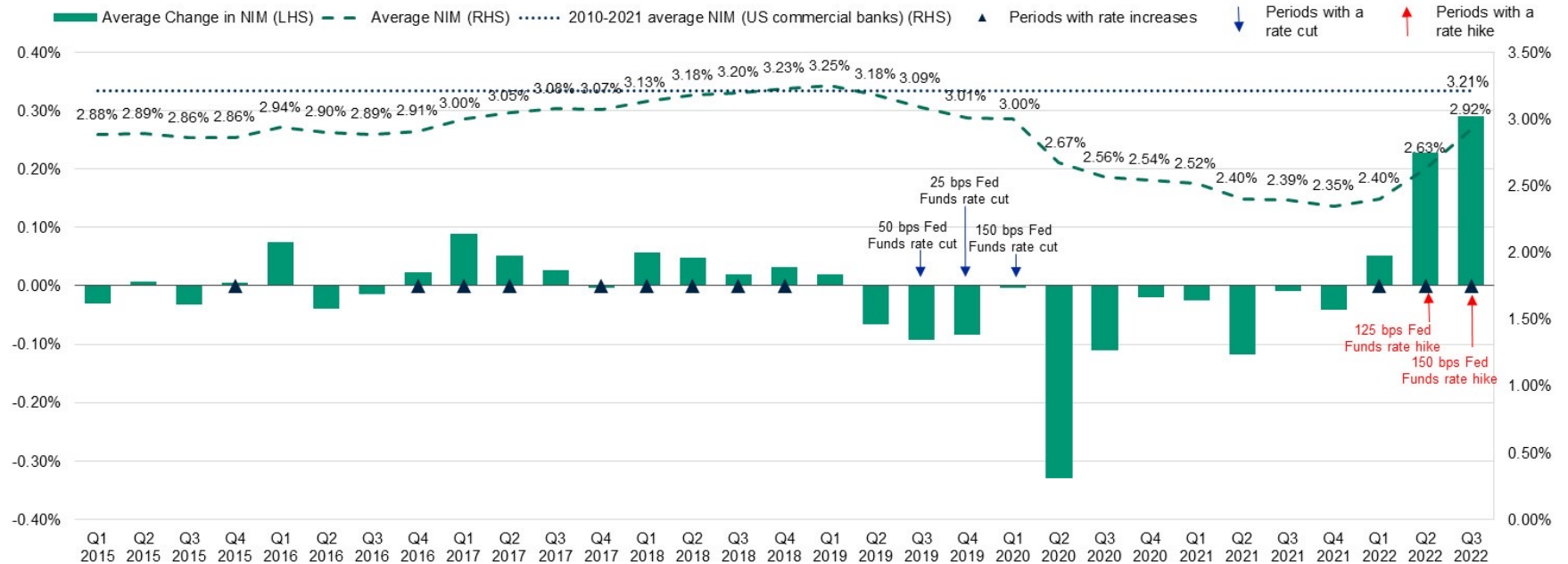
Tier 1 risk-based capital ratio



Beginning in Q1 2020, the ratio does not include institutions that have a CBLR election in effect as of the report date. 37% of community banks have elected to use the community bank leverage ratio (CBLR) framework.
Sources: FDIC and Moody's Investors Service

US regional bank net interest margins accelerated in Q3; close to pre-pandemic levels

Quarterly change in banks' average net interest margin (NIM), Q1 2015 – Q3 2022

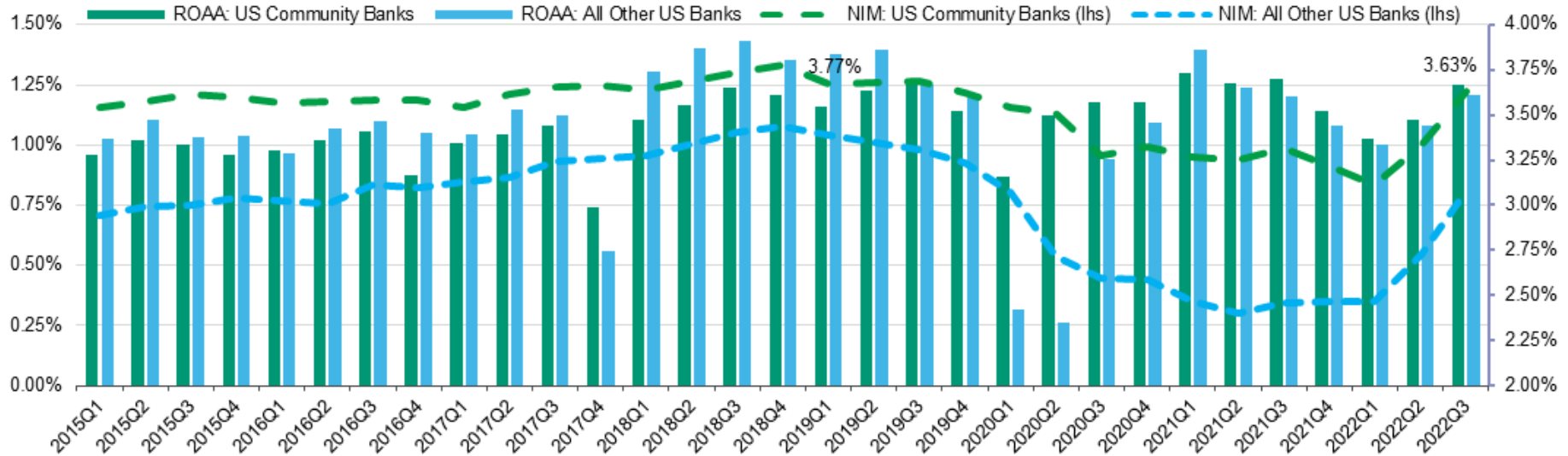


1) The x-axis labels show each bank's Baseline Credit Assessment (BCA). 2) The blue dashed line represents the average net interest margin of the following banks: BAC, C, CMA, CFG, FITB, FRC, HBAN, JPM, KEY, MTB, PNC, SIVB, TFC, USB, WFC, and ZION. From Q1 2015 – Q3 2019, the peer group included BBT and STI, but not TFC. 3) The orange dotted line represents the average net interest margin of aggregate US commercial banks from 2010 – 2021.

Source: Company reports, US Federal Reserve, Moody's Investors Service

Higher NIM at community banks and closer to pre-pandemic level

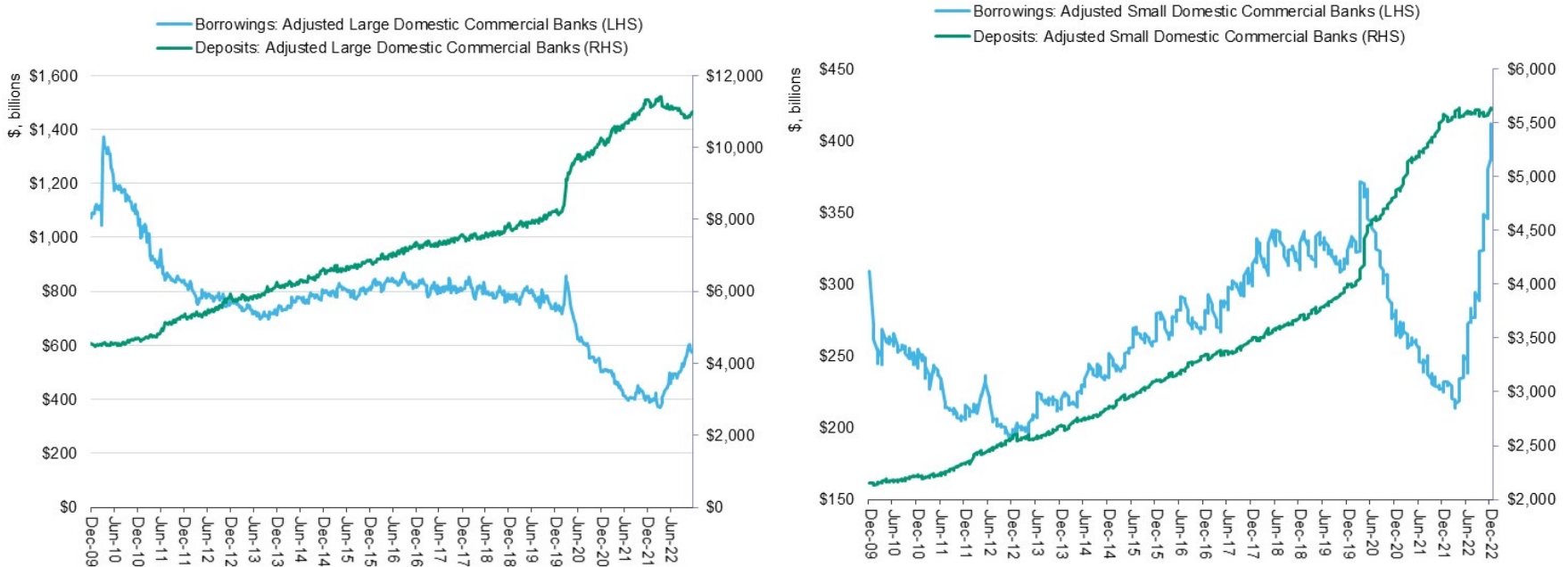
ROAA and NIM



Source: FDIC, Moody's Investors Service

Smaller US banks' marketable borrowing levels exceed pandemic peak; large US banks seeing deposit outflows

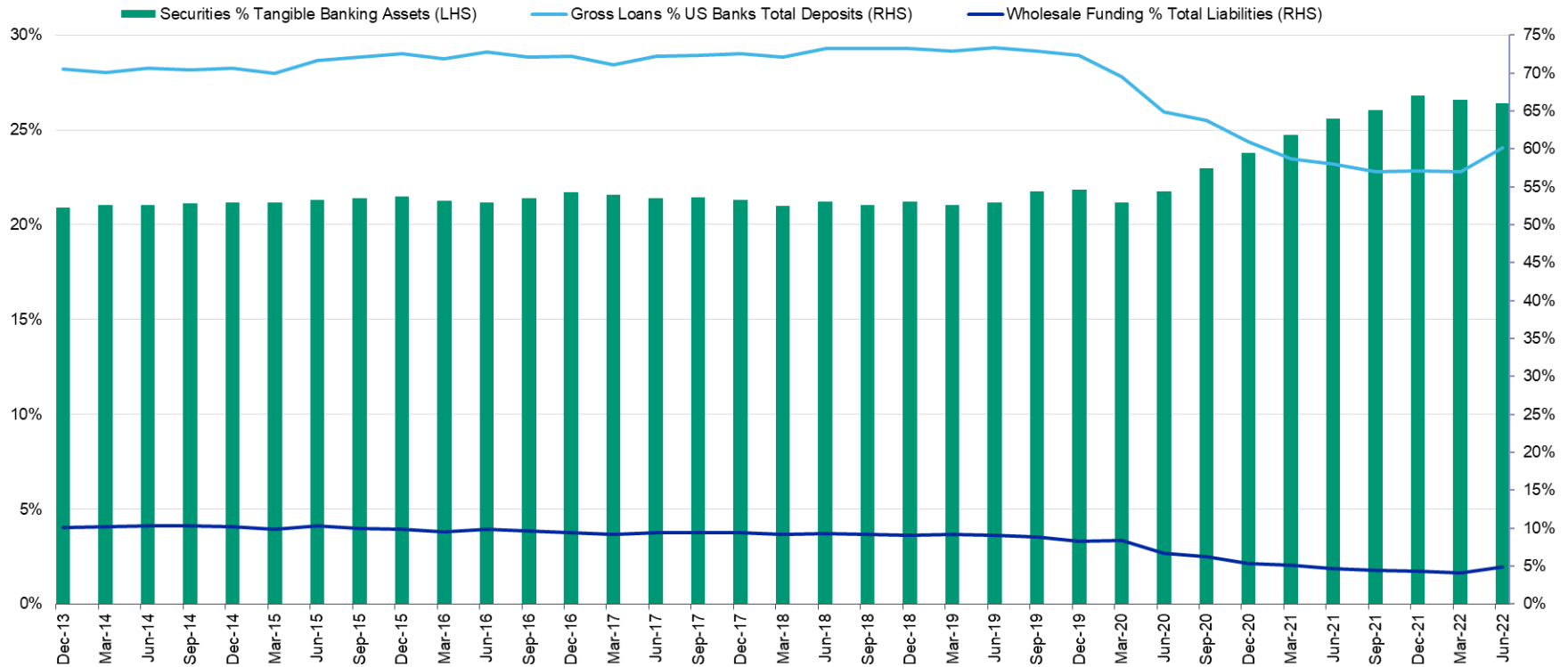
Total deposits and borrowings for small vs. large domestic commercial banks, Dec 2009 – Dec 2022



1) Adjusted for mergers. 2) The large domestic commercial banks are defined as the top 25 domestically chartered commercial banks. The small domestic commercial banks are defined as all the domestically chartered commercial banks not included in the top 25

Source: Haver, Moody's Investors Service

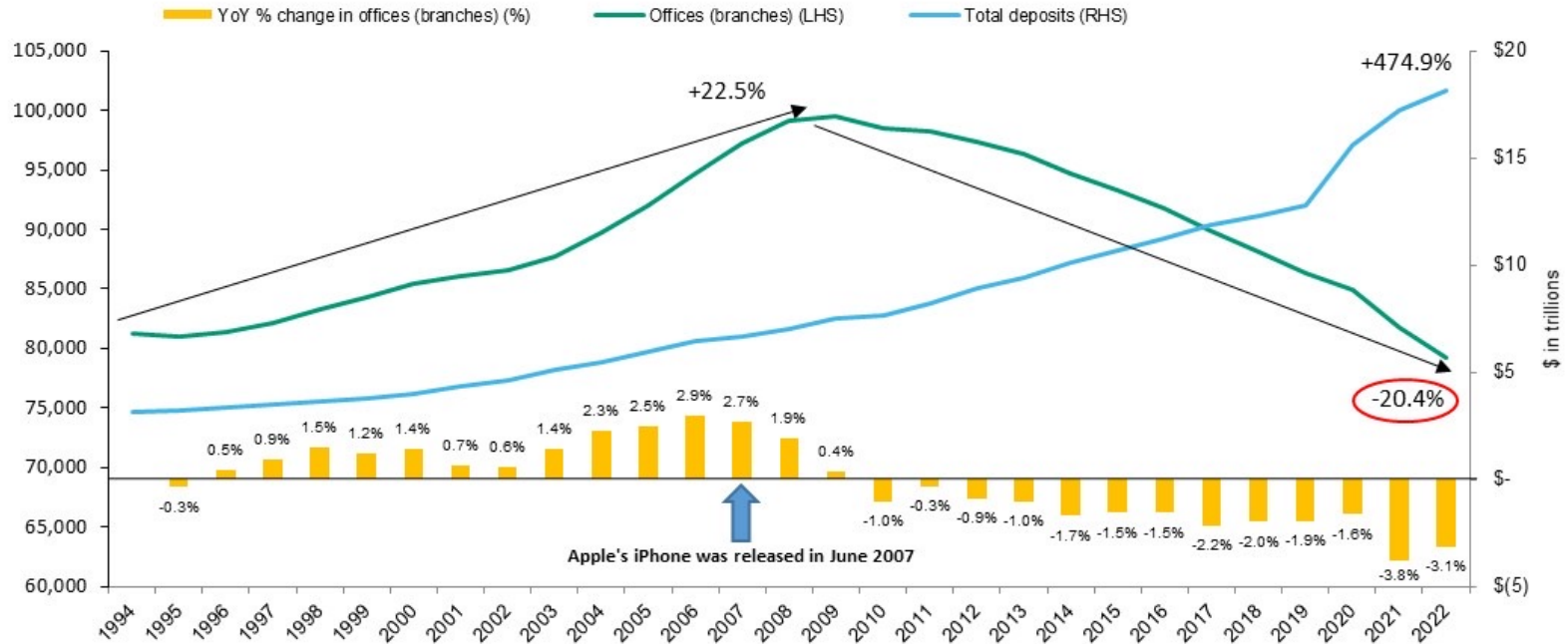
US banks' loan-to-deposits low; banks bought securities to protect NIM and these holdings now have mark-to-market losses



Source: FDIC, Moody's Investors Service

Branch density is less important for deposit gathering

Change in bank office branches 1994-2022



Source: FDIC, Moody's Investors Service

Four Components to MIS Integration of ESG

New ESG scores will assist in transparently and systematically demonstrating the impact of ESG on credit ratings



Credit Ratings & Research

How is ESG integrated into credit ratings?

ESG factors taken into consideration for all credit ratings. Greater transparency in PRs, as well as Credit opinions. Credit Impact Score (CIS) is an output of the rating process that indicates the extent, if any, to which ESG factors impact the rating of an issuer or transaction.



ESG Scores

How is a specific issuer exposed to ESG risks/benefits?

Issuer Profile Scores (IPS) are issuer-specific scores that assess an entity's exposure to the categories of risks in the ESG classification from a credit perspective. IPSs, where available, are inputs to credit ratings.



ESG Classification

What is ESG?



Our classification reports describe how we define and categorize E, S and G considerations that are material to credit quality. New environmental classification sharpens focus on physical climate risks.

Heat Maps

Is ESG material to credit quality?



Heat maps provide relative ranking of various sectors along the E and S classification of risks.

ESG Classification System Incorporates Credit Relevant Considerations

Our assessment of ESG risks is framed by the classification



Environmental

| |
|------------------------|
| Physical climate risks |
| Carbon transition |
| Water management |
| Waste and pollution |
| Natural capital |



Social

| Private sector | Public sector |
|---------------------------------|--------------------------|
| Customer relations | Access to basic services |
| Demographic and societal trends | Demographics |
| Human capital | Education |
| Health and safety | Health and safety |
| Responsible production | Housing |
| | Labor and income |



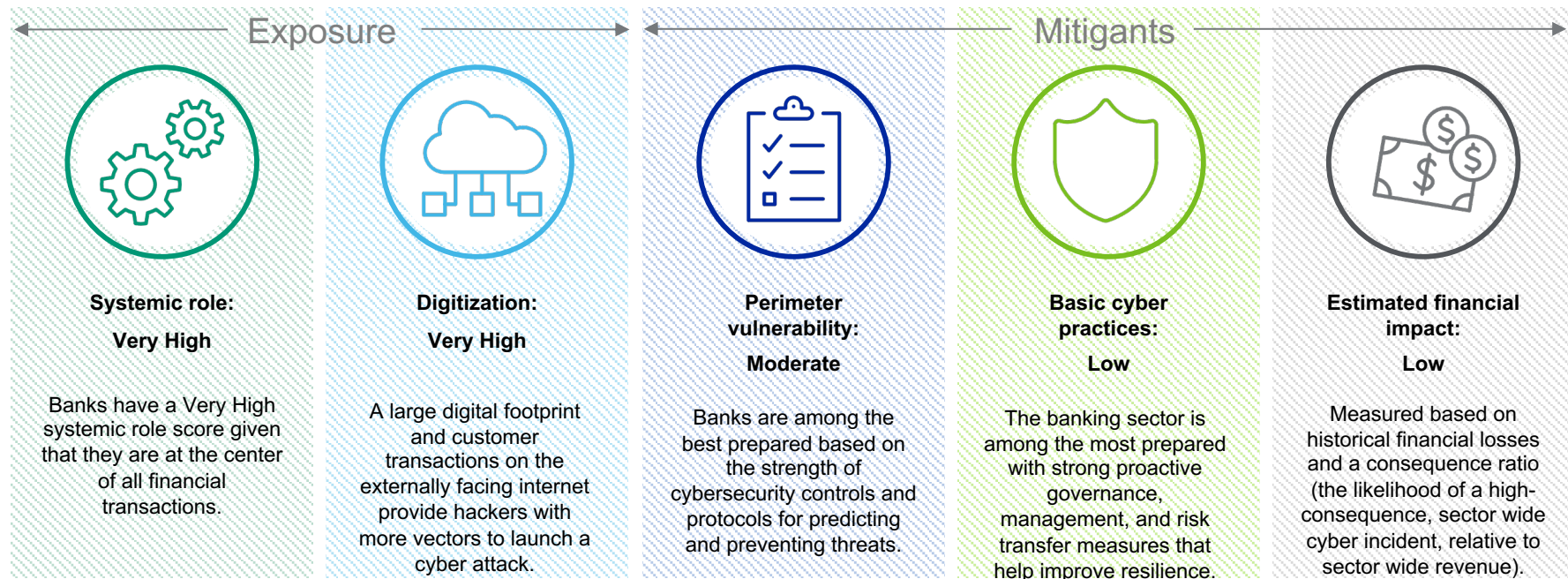
Governance

| Private sector | Public sector |
|--|--------------------------------------|
| Financial strategy & risk management | Institutional structure |
| Management credibility & track record | Policy credibility and effectiveness |
| Organizational structure | Budget management |
| Board structure, policies & procedures | Transparency and disclosure |
| Compliance & reporting | |

Source: Moody's Investors Service

Banking sector overall cyber risk score = High

Sector-level cyber risk is scored Low, Moderate, High or Very High, reflecting our assessment of two equally weighted factors: cyber risk exposure and mitigation



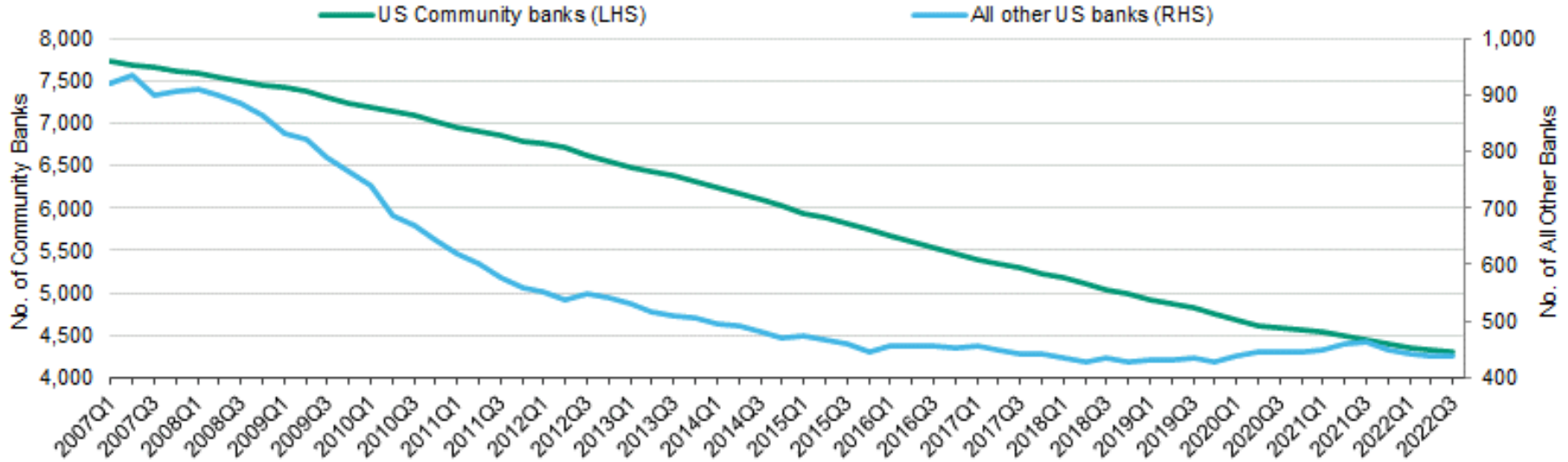
Source: Moody's Investors Service; [Cyber heat map: Risks are rising, but many sectors are boosting defensive capabilities](#), 28 Sept 2022



Appendix

U.S. banking sector consolidation continues

The number of FDIC-registered banks in the US



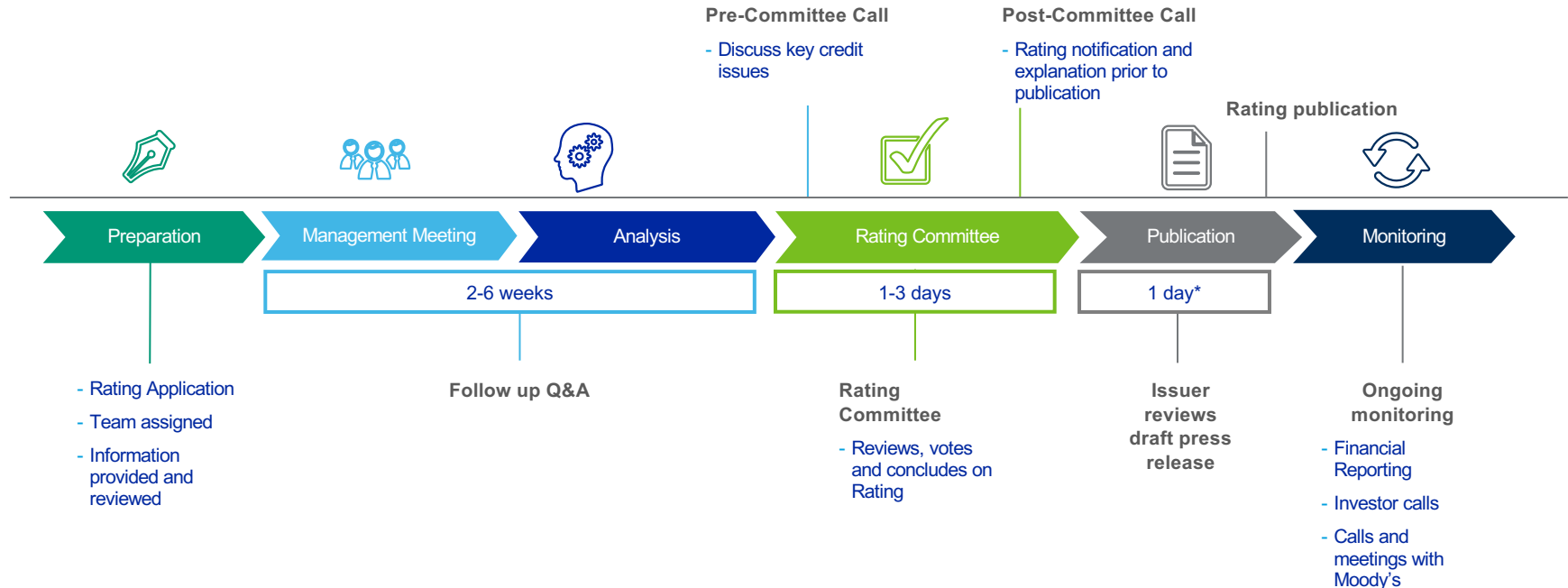
Source: FDIC, Moody's Investors Service

Moody's rated US community banks

| Moody's Rated US Community Bank | Abbreviated name | BCA | Outlook |
|---|------------------|------|---------|
| Amarillo National Bancorp, Incorporated | Amarillo | a3 | STA |
| First Merchants Corporation | First Merchants | a3 | STA |
| Washington Federal, Inc. | Washington | a3 | NEG |
| INTRUST Financial Corporation | INTRUST | baa1 | STA |
| Hilltop Holdings, Inc. | Hilltop | baa1 | STA |
| WSFS Financial Corporation | WSFS | baa1 | POS |
| Axos Financial, Inc. | Axos | baa2 | RUR |
| Berkshire Hills Bancorp, Inc. | BHLB | baa2 | POS |
| Dime Community Bancshares, Inc. | Dime | baa2 | STA |
| Peapack-Gladstone Financial Corporation | Peapack | baa2 | STA |
| Merchants Bancorp | Merchants | baa3 | STA |

Information flow for Moody's typical rating process

Our process is efficient, timely and focused

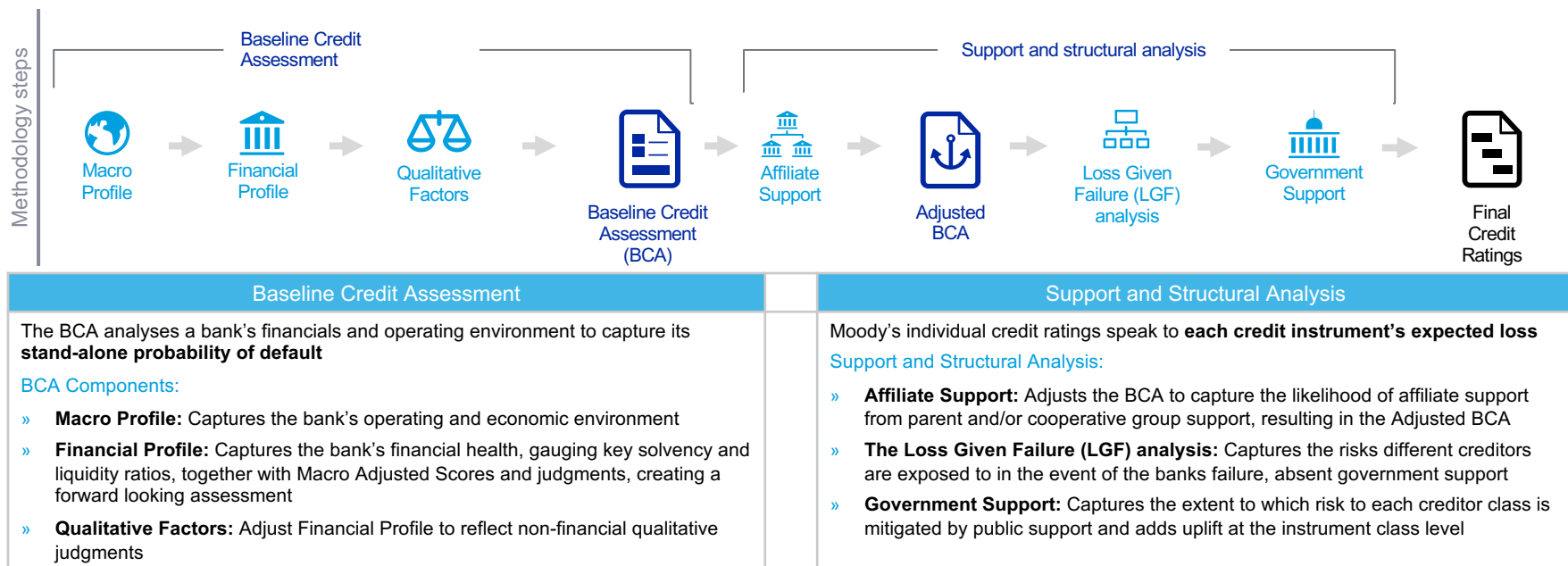


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** Time to publication may differ according to local regulations. In some jurisdictions, for first time ratings, new issuers can have up to 60 days to decide whether to publish*

Moody's Bank Methodology

A sequential analysis taking into account a new form of “resolution” and generating ratings for each instrument class



Source: Moody's Investors Service

What do our financial ratios mean

| | | |
|---|--|------------------|
| <p>SOLVENCY (65% weight) The combination of a bank's risk, and its capacity to absorb any resultant losses from capital and earnings</p> | <p>ASSET RISK (25% weight) is measured by the Problem Loans / Gross Loans ratio, which signals potential problems, credit losses and pressure on solvency that disadvantage bondholders. Most bank failures stem from credit risk, since even a small deterioration in the value of an institution's assets can have a significant effect on its solvency given the bank's typically high balance sheet leverage.</p> | WORST OF |
| | <p>CAPITAL (25% weight) is measured by Tangible Common Equity / Risk-weighted Assets. Good capital levels are important since the greater the risk of unexpected losses, the more capital a bank needs to hold to protect bondholders and maintain the creditor confidence necessary to fund itself.</p> | LATEST AVAILABLE |
| | <p>PROFITABILITY (15% weight) as measured by Net Income / Total Assets, helps determine an institution's ability to generate capital, and is a complementary indicator of its ability to absorb losses and recover from shocks.</p> | WORST OF |
| <p>LIQUIDITY (35% weight) The combination of the mismatch between the maturity of a bank's assets and its liabilities, the reliability of funding, and its capacity to meet cash outflows from liquid reserves</p> | <p>FUNDING STRUCTURE (20% weight) as measured by Market Funds / Tangible Banking Assets, has a strong bearing on the bank's potential to need assistance. If a bank makes significant use of unreliable funding sources (short-term or from risk-sensitive counterparties), it is more likely to suffer difficulties refinancing its debt.</p> | LATEST YEAR-END |
| | <p>LIQUID RESOURCES (15% weight) as measured by Liquid Assets / Tangible Assets, is an indicator of a bank's ability to attain funding from credit-sensitive investors. If a bank has a stock of high-quality liquid instruments that it can sell or repo for cash, it will be better able to respond to the changing behavior of its counterparties.</p> | LATEST YEAR-END |

Ratio rationale

The ratios necessarily fluctuate over time, and their significance varies. For the problem loan ratio and profitability ratio, we review the latest three year-end ratios as well as the most recent intra-year ratio where applicable, and base our starting point ratio on the weaker of the average of this period and the latest reported figure. This reduces the inherent cyclicality of these ratios while ensuring that we capture sudden deterioration. Improvements thereby have a slower impact, which reflects our view that they should be proven over time. For the capital ratio, we use the latest provided figure. For the funding structure and liquid asset ratios, we use the latest year-end figures as we believe them to be the most representative and reliably.

Due to national differences in the implementation and the phase-in period of the Basel III Accord, we use the Tangible Common Equity, TCE, as the numerator for our capital ratio since it is close to the narrowest and now most prevalent regulatory measure of capital, Common Equity Tier 1. We focus on pure common equity and exclude "hybrid" instruments. TCE also caps the contribution of deferred tax assets at 10% of the total and excludes minority interest.

Source: Moody's Investors Service

What do our ratings and assessments mean

Moody's Ratings and Assessments



Source: Moody's Investors Service

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