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Outlook for US regional banks: Credit growth slowing and credit conditions tightening

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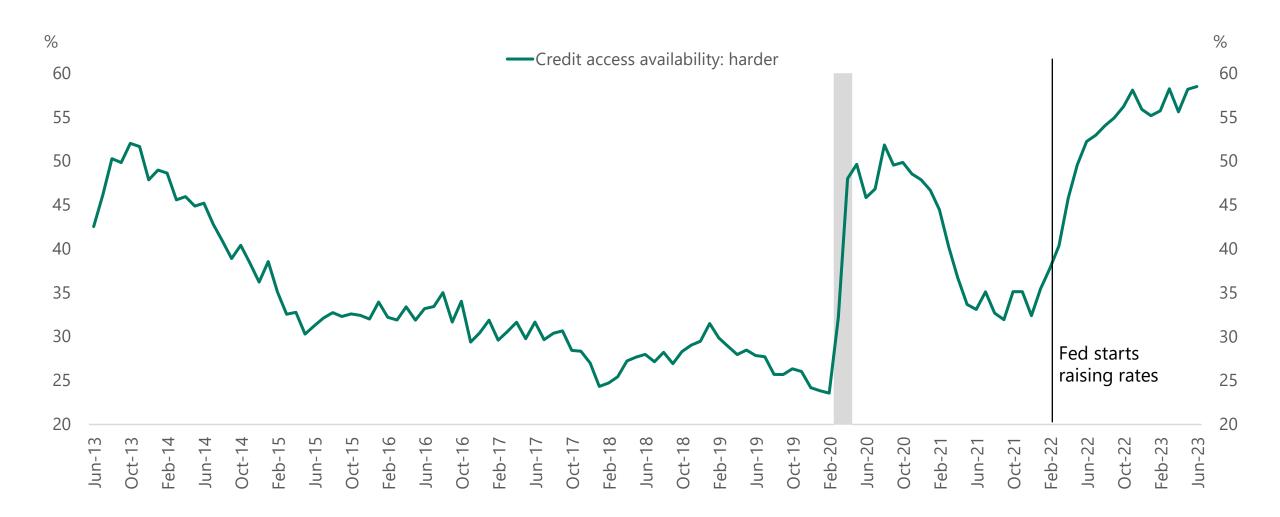
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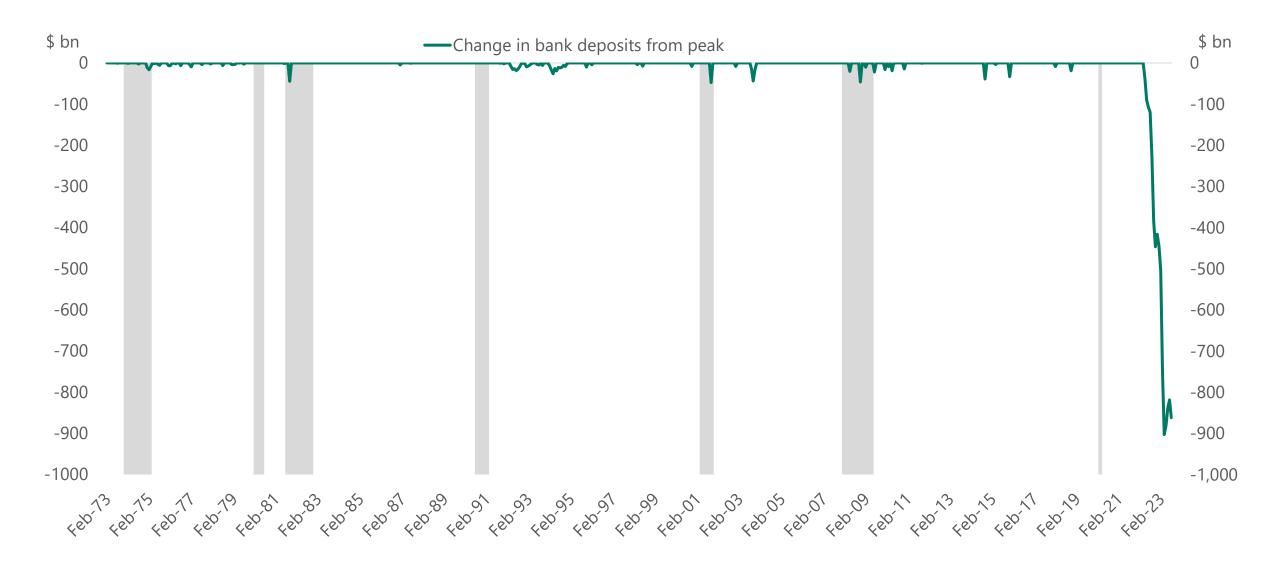
12. Community banks

Source: Apollo Chief Economist

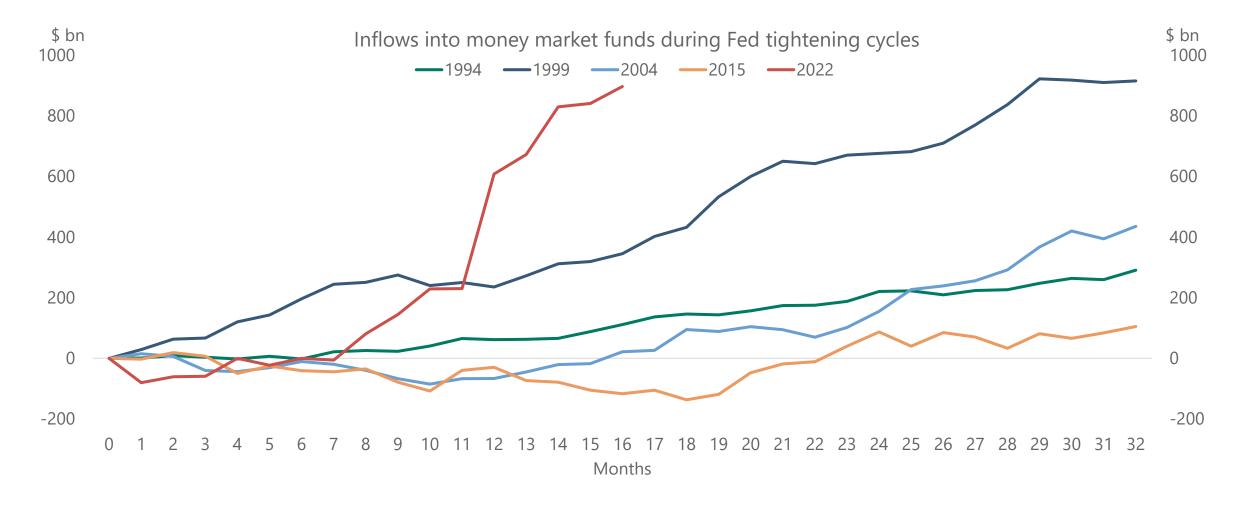
The share of households reporting it is harder to obtain credit than one year ago



\$862bn in deposits have left the banks since the Fed began to raise interest rates



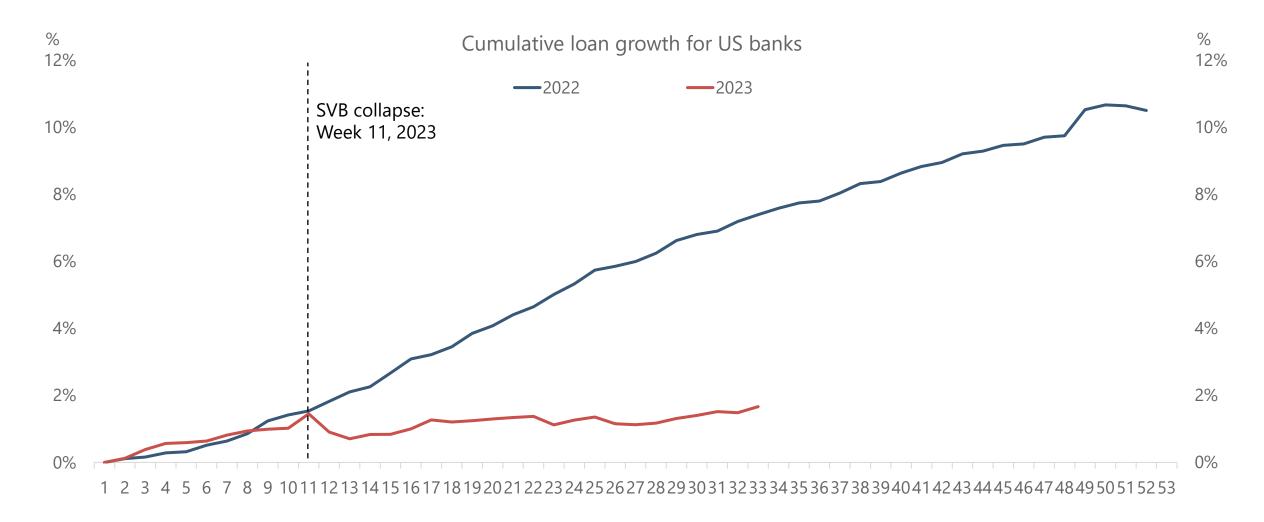
\$896bn inflows into money market funds during this Fed hiking cycle



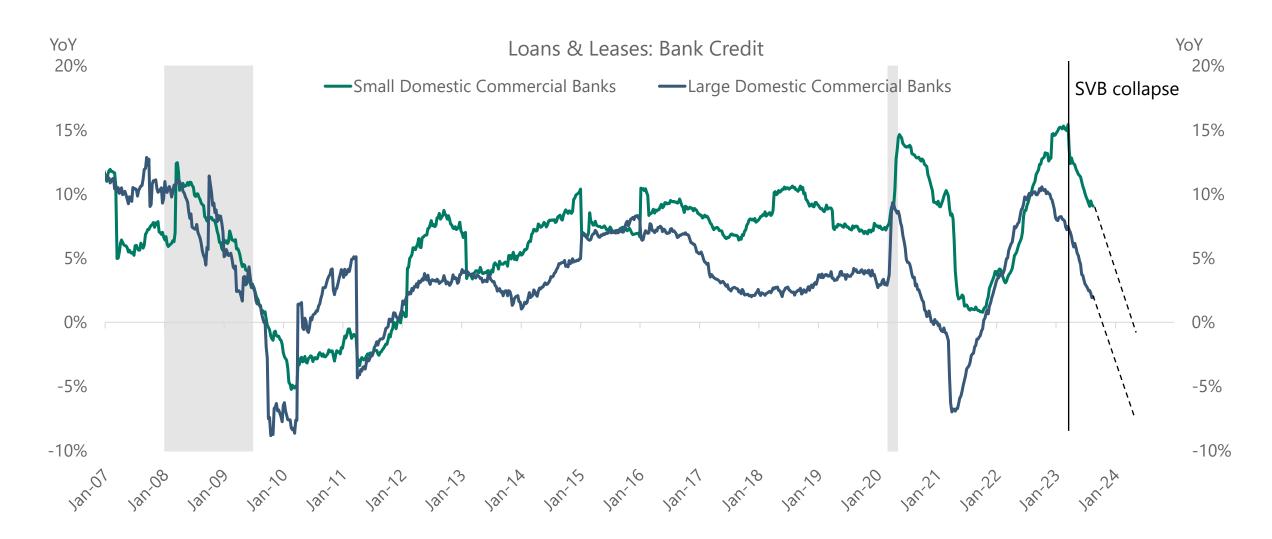
Overview:

Credit growth slowing and credit conditions deteriorating

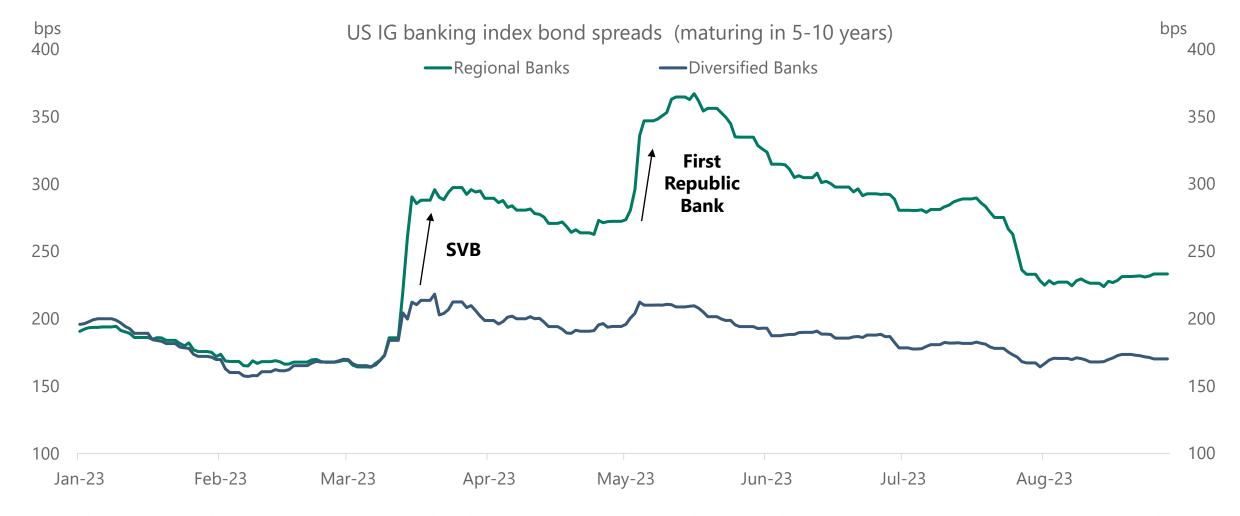
SVB having a permanent effect



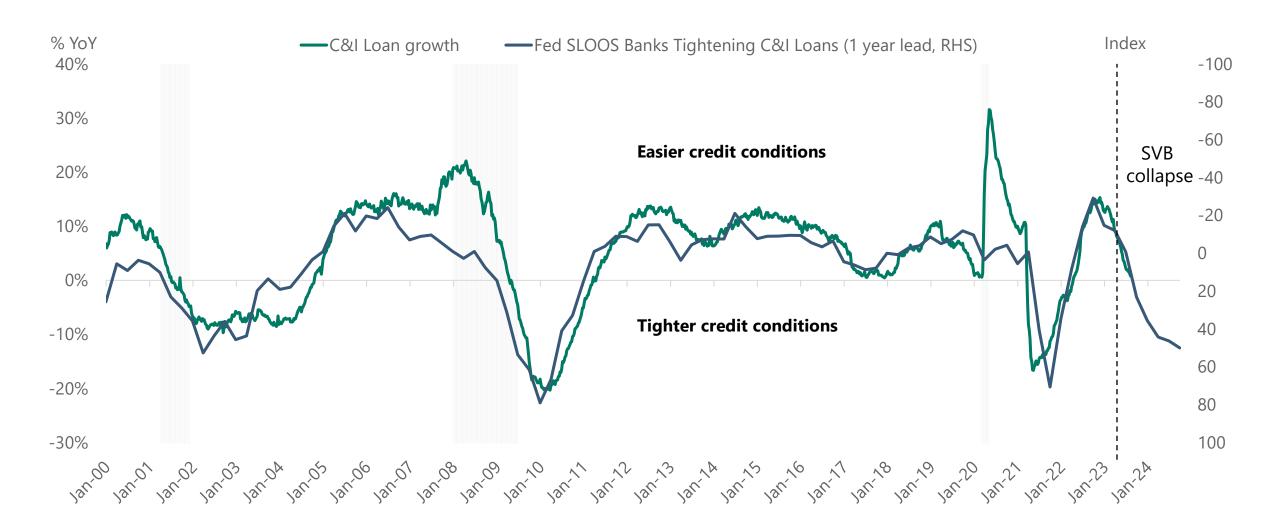
Weekly Fed data shows small and large bank lending growth slowing rapidly after SVB



SVB and FRC lifted funding costs for banks permanently

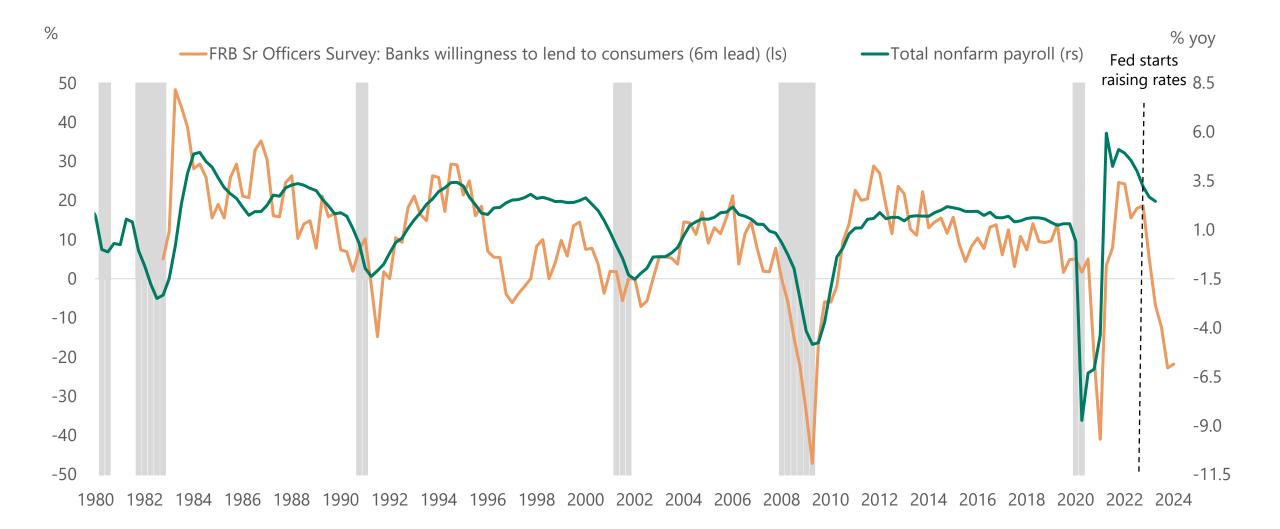


Bank lending will shrink significantly over the coming quarters

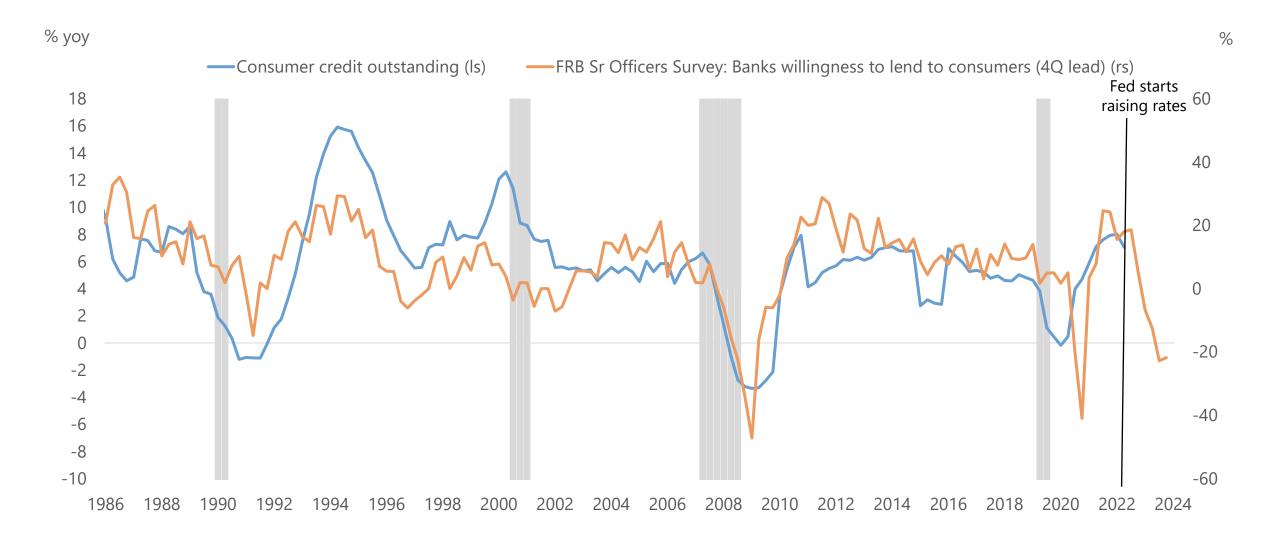


Source: FRB, Haver Analytics, Apollo Chief Economist

Significant downside risks to nonfarm payrolls as a result of tighter credit conditions

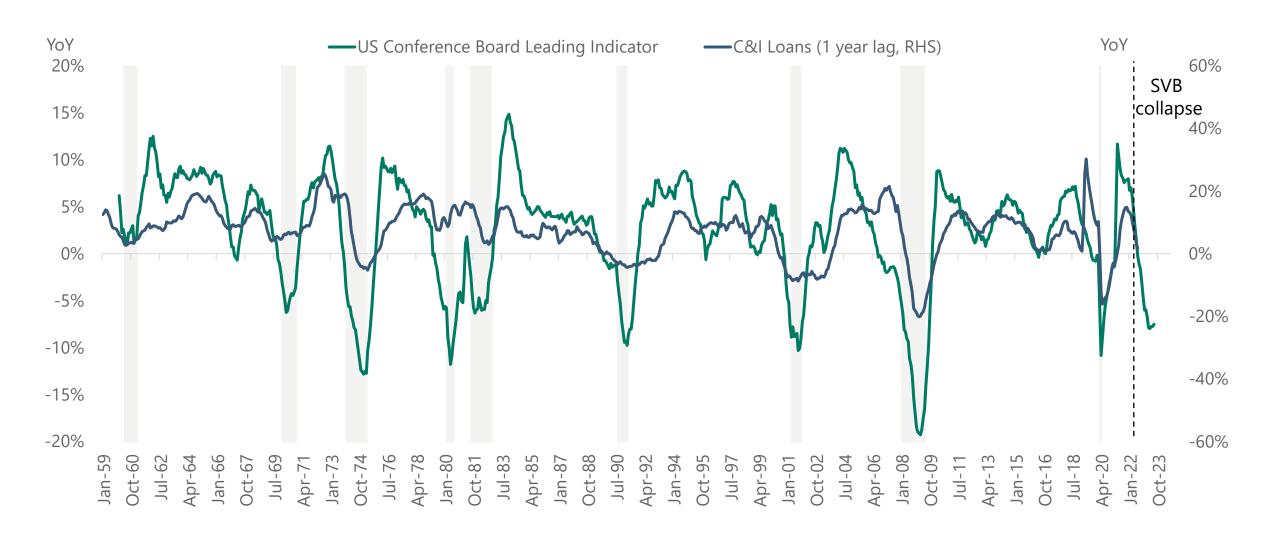


Credit tightening points to sharp slowdown in consumer credit

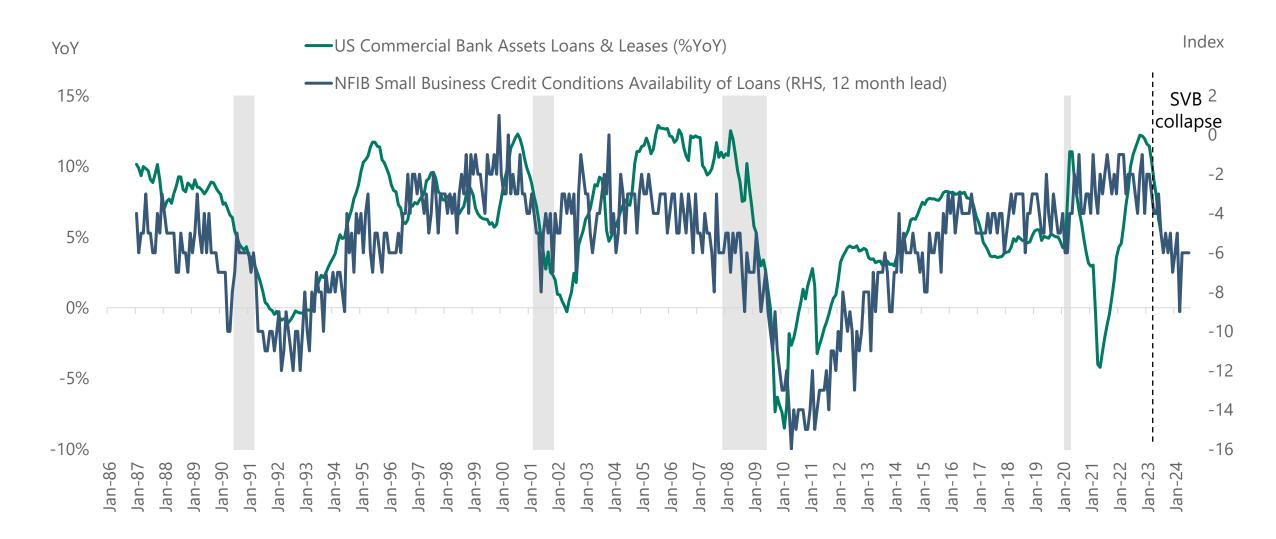


Source: FRB,, Haver Analytics, Apollo Chief Economist

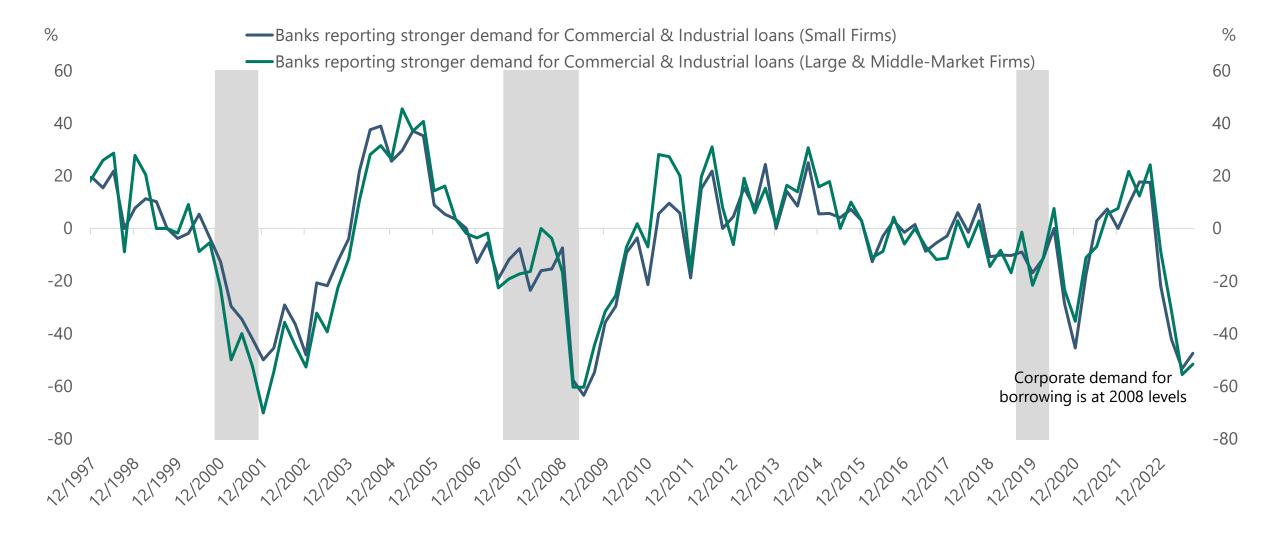
Tighter credit conditions dragging down the economy



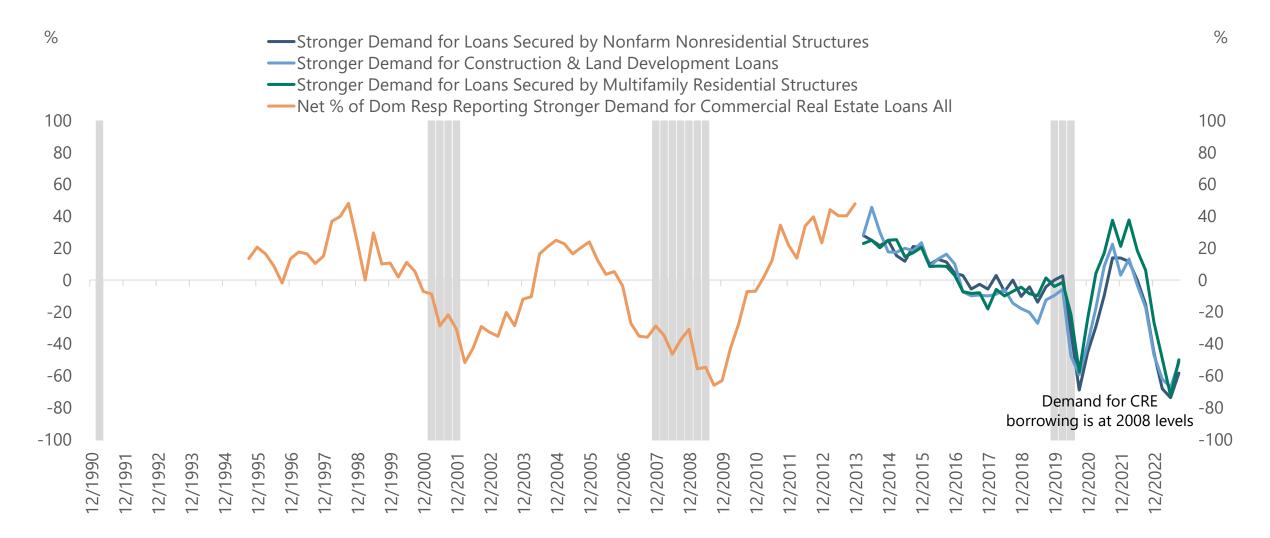
Tighter credit conditions dragging down the economy



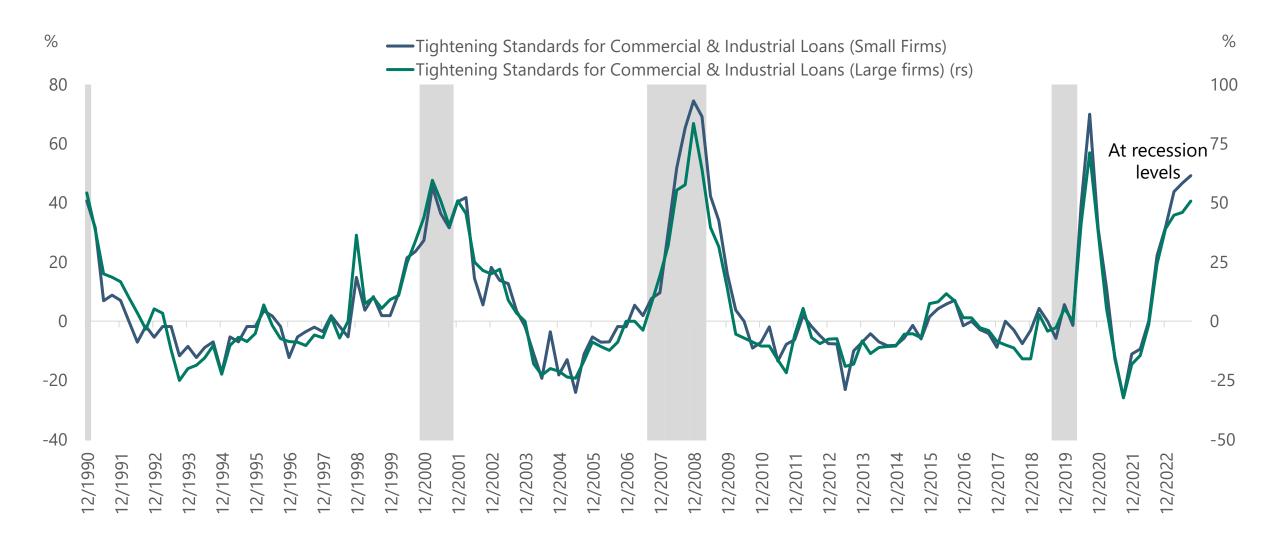
Demand for corporate loans is at 2008 levels



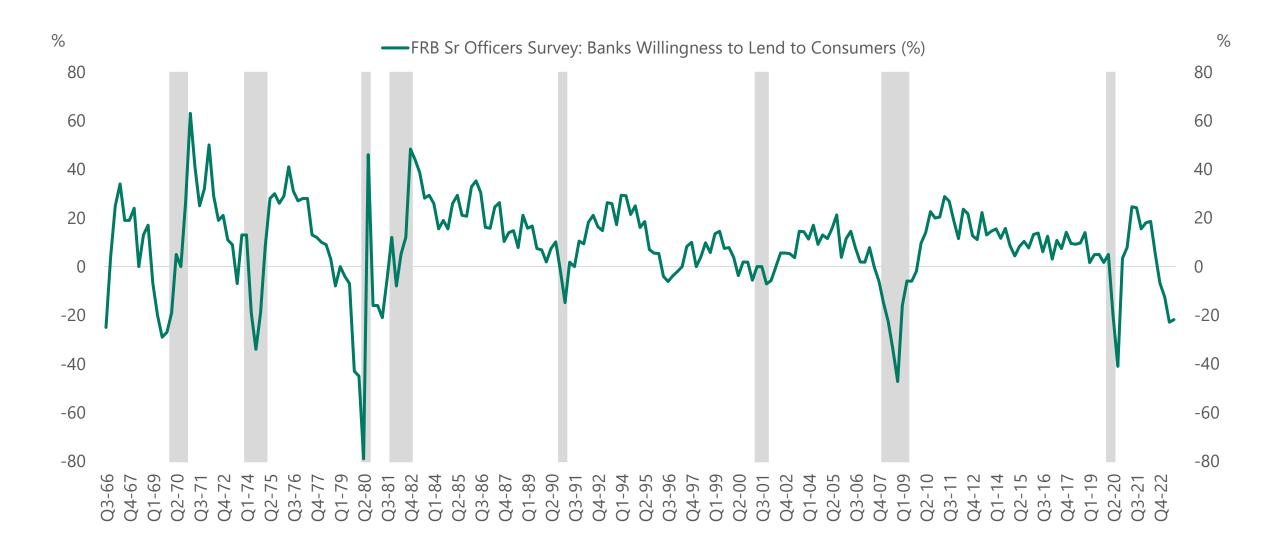
Demand for commercial real estate loans is at 2008 levels



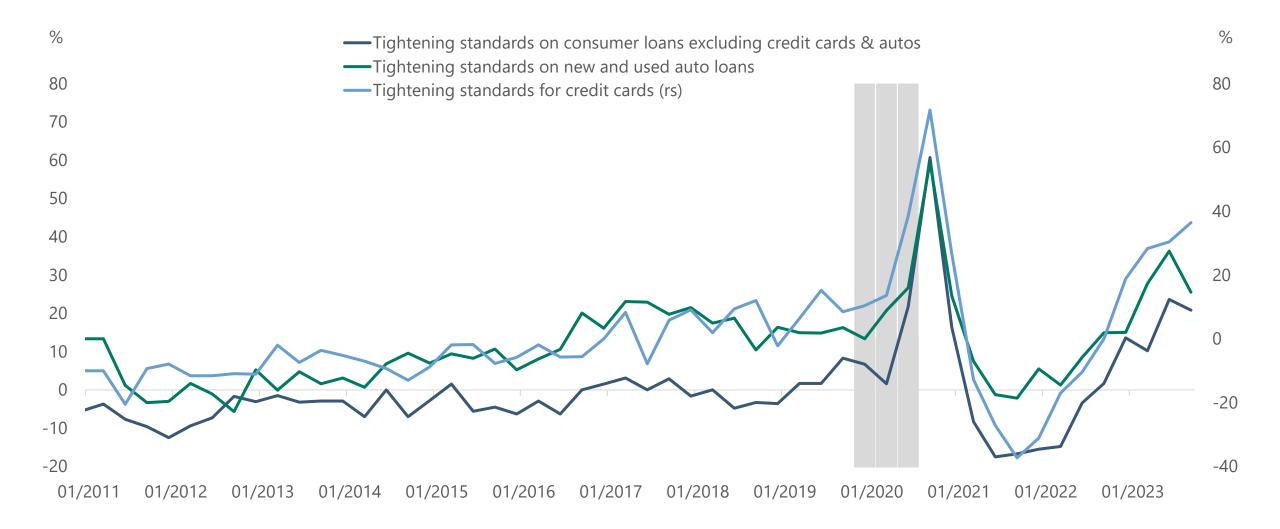
Banks are tightening lending standards significantly, near 2008 levels



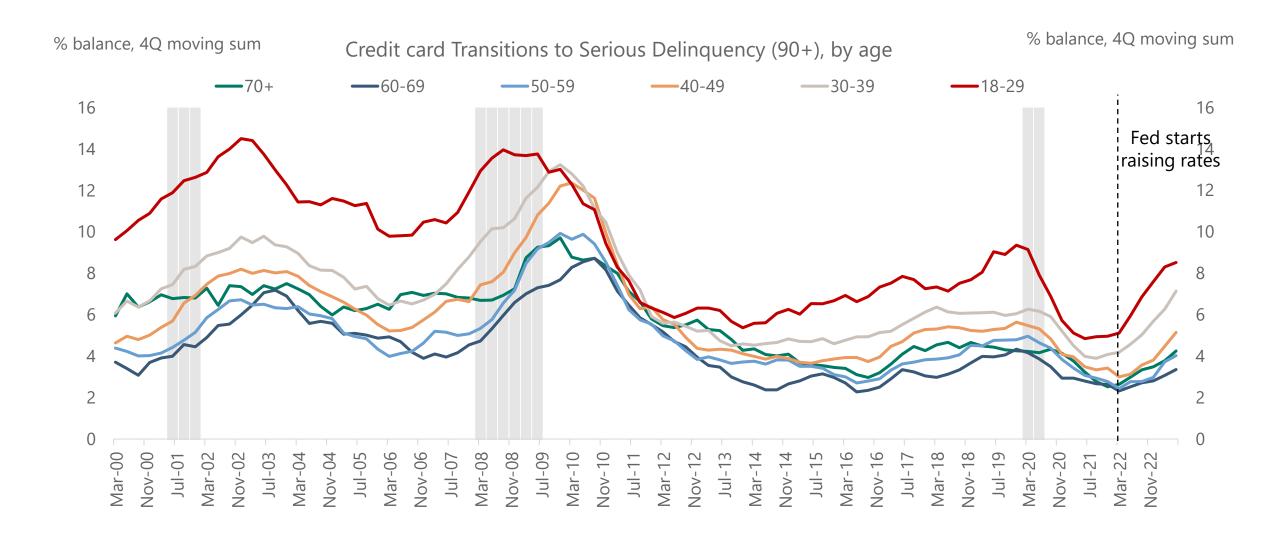
Banks' willingness to lend to consumers approaching 2008 levels



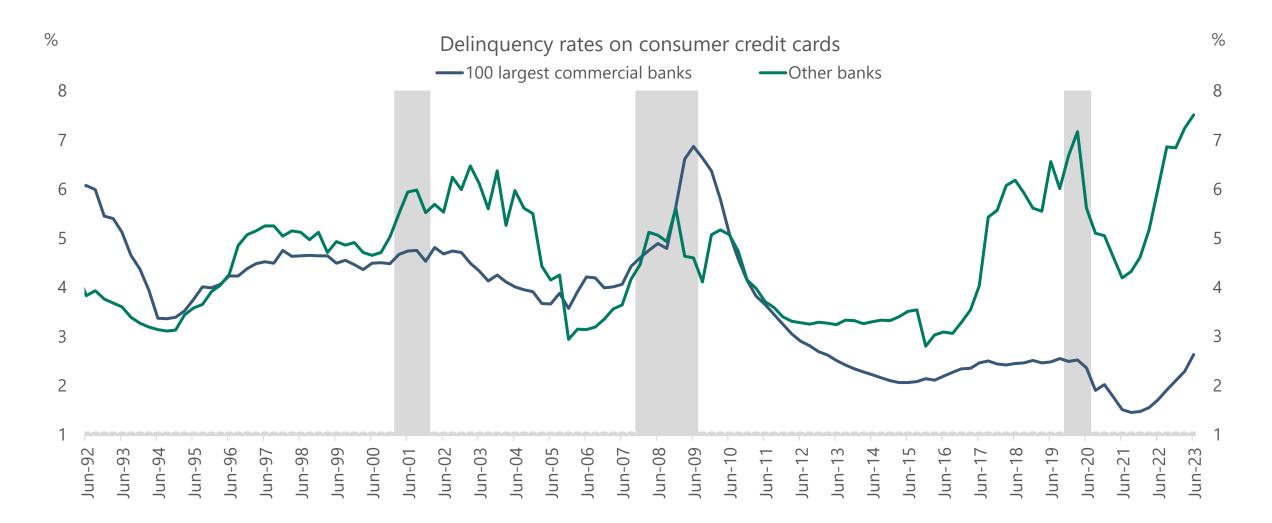
Lending standards are tightening for consumers, approaching 2008 levels



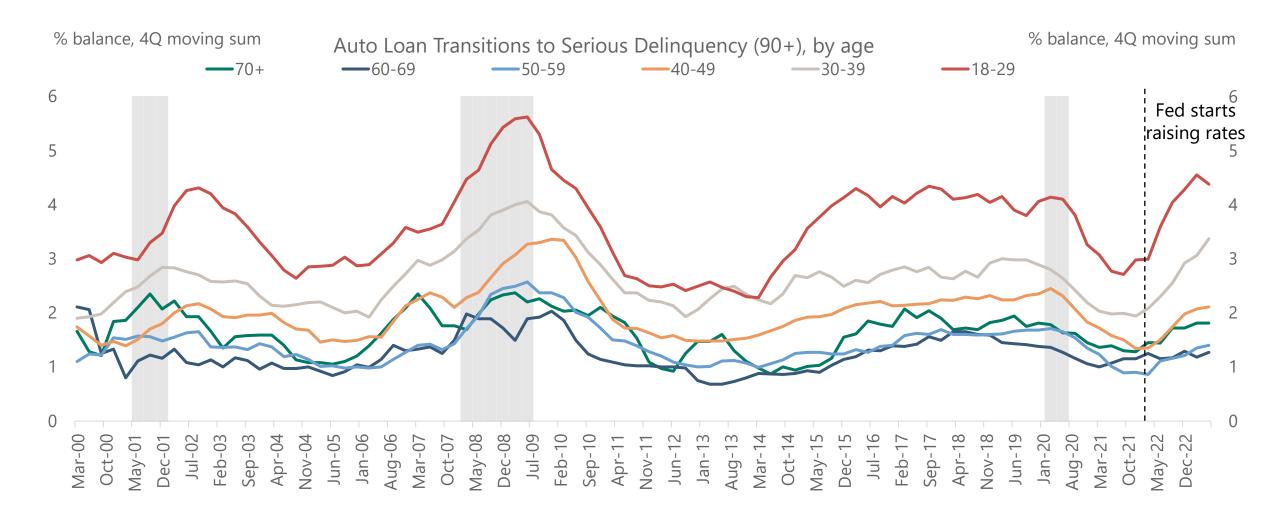
Credit card delinquency rates rising



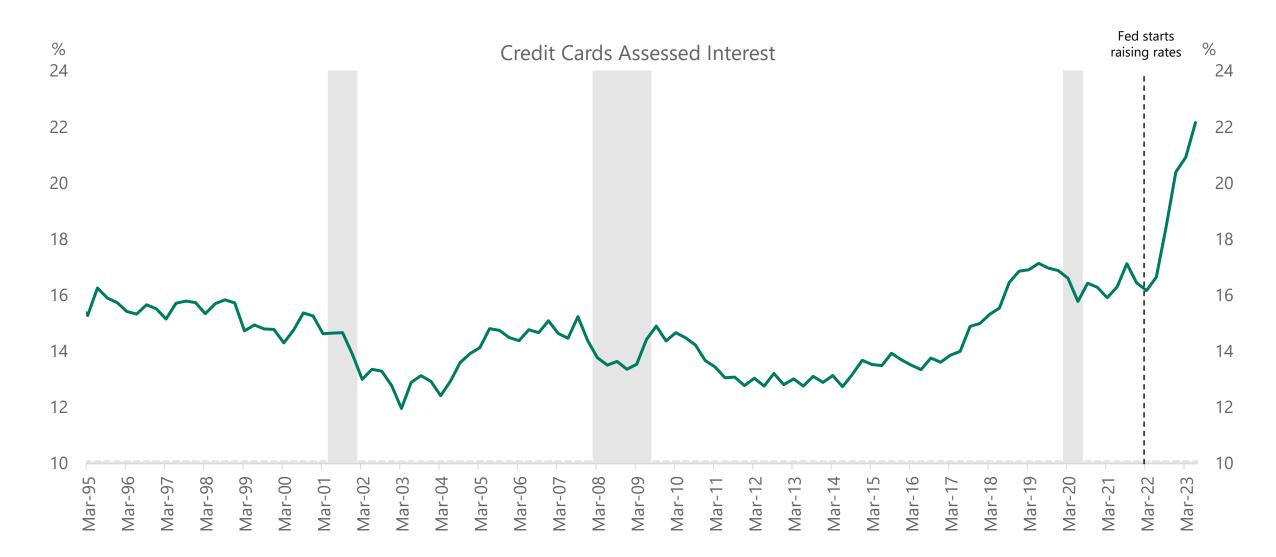
Credit card delinquency rates at small banks are higher than at large banks



Auto loan transitions to serious delinquency at 2008 levels

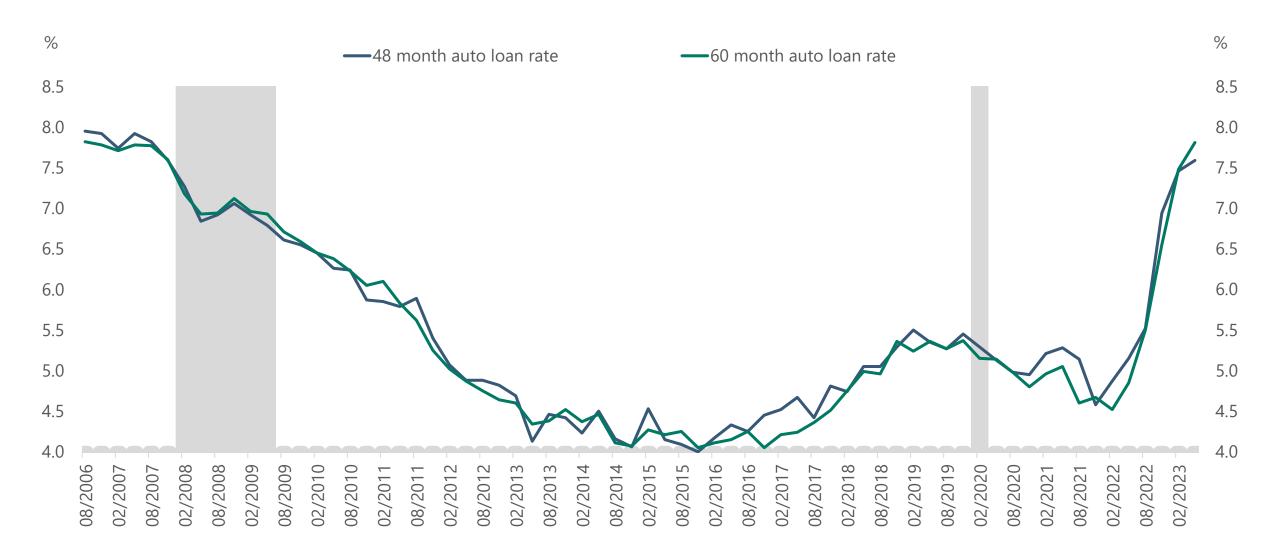


Interest rate on credit cards

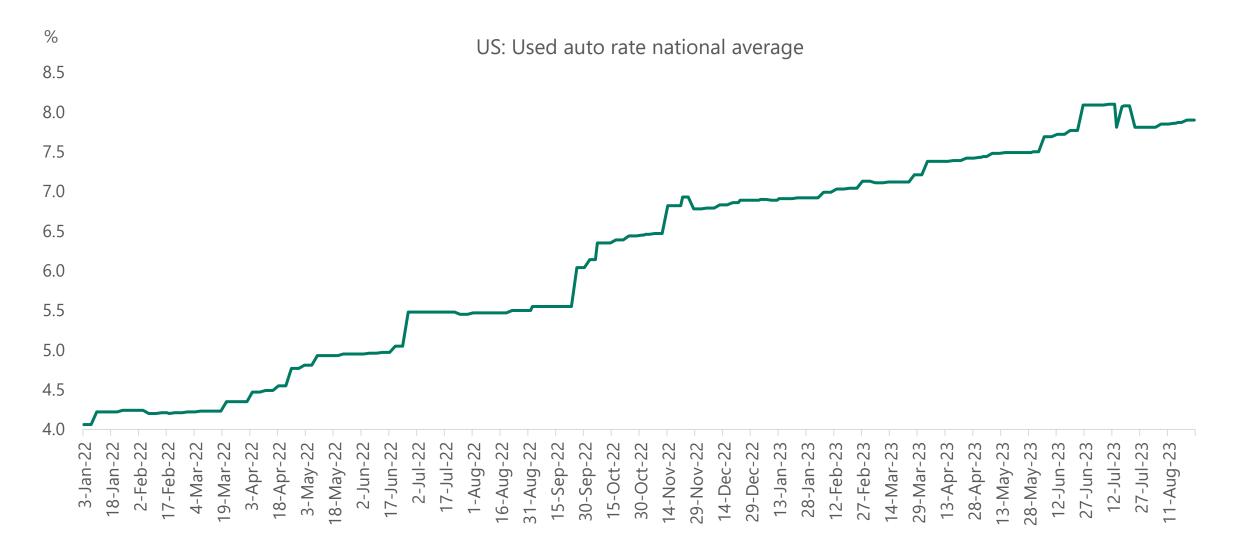


Source: FRB, Haver Analytics, Apollo Chief Economist

Commercial Bank auto loan rates highest since 2008

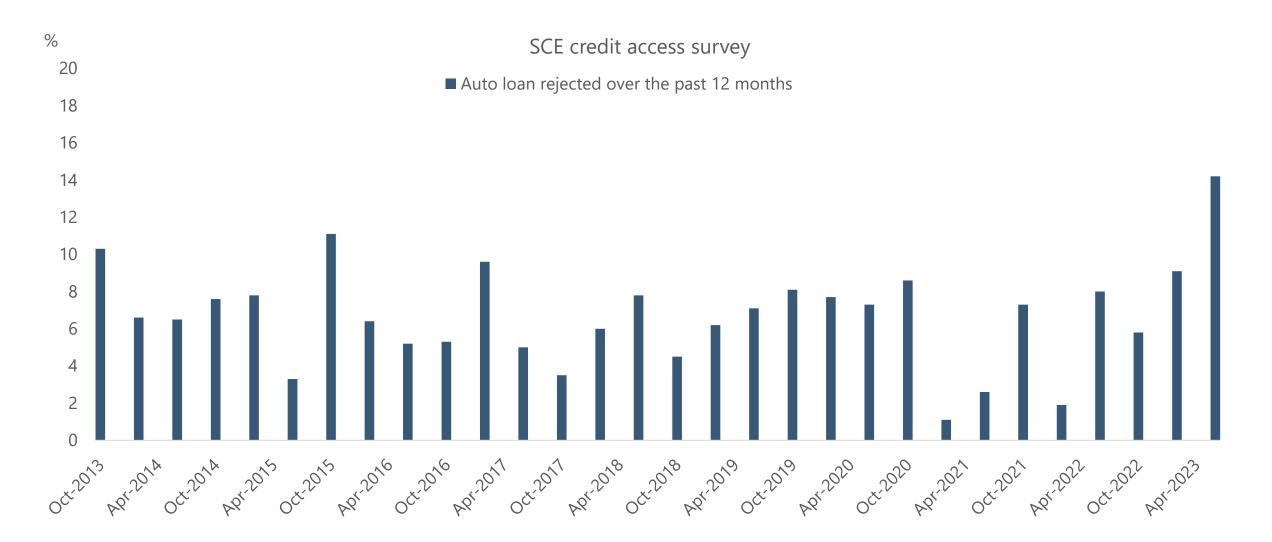


Interest rate on auto loans



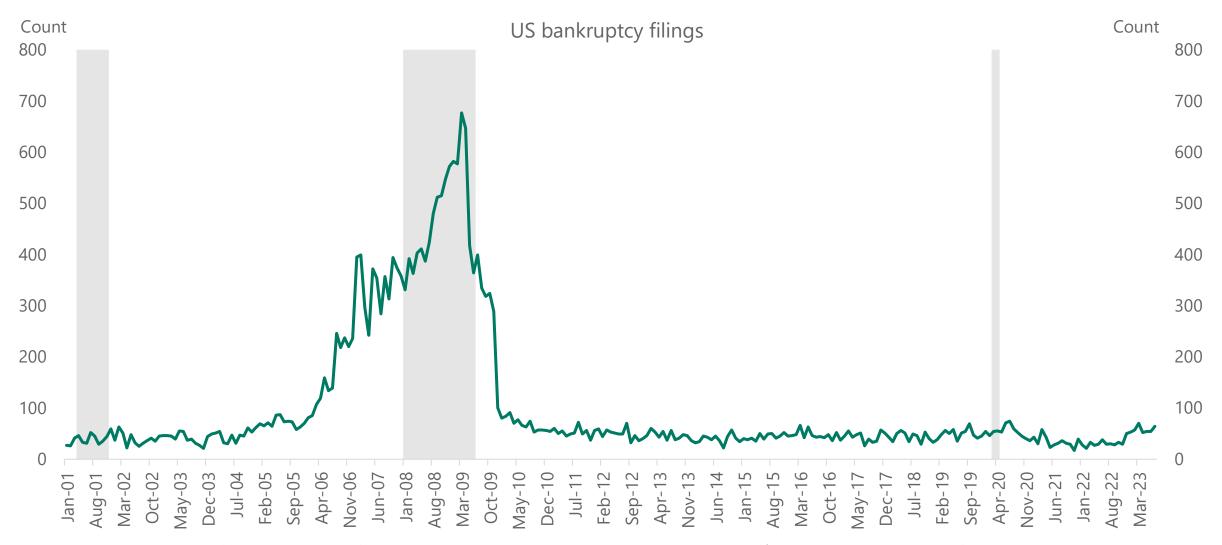
Source: Bankrate.com, Apollo Chief Economist

Auto loan rejection rate over the past 12 months



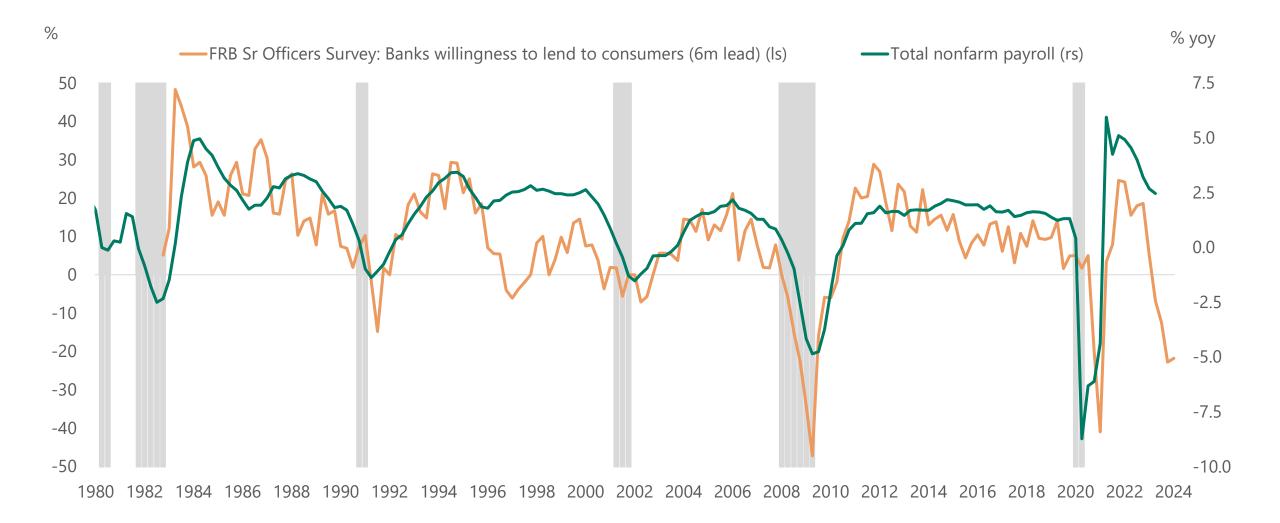
Source: FRBNY, Haver Analytics, Apollo Chief Economist

Bankruptcy filings



Source: S&P Capital IQ, Bloomberg, Apollo Chief Economist. Note: Bankruptcy figures include public companies or private companies with public debt with a minimum of \$2 million in assets or liabilities at the time of filing, in addition to private companies with at least \$10 million in assets or liabilities.

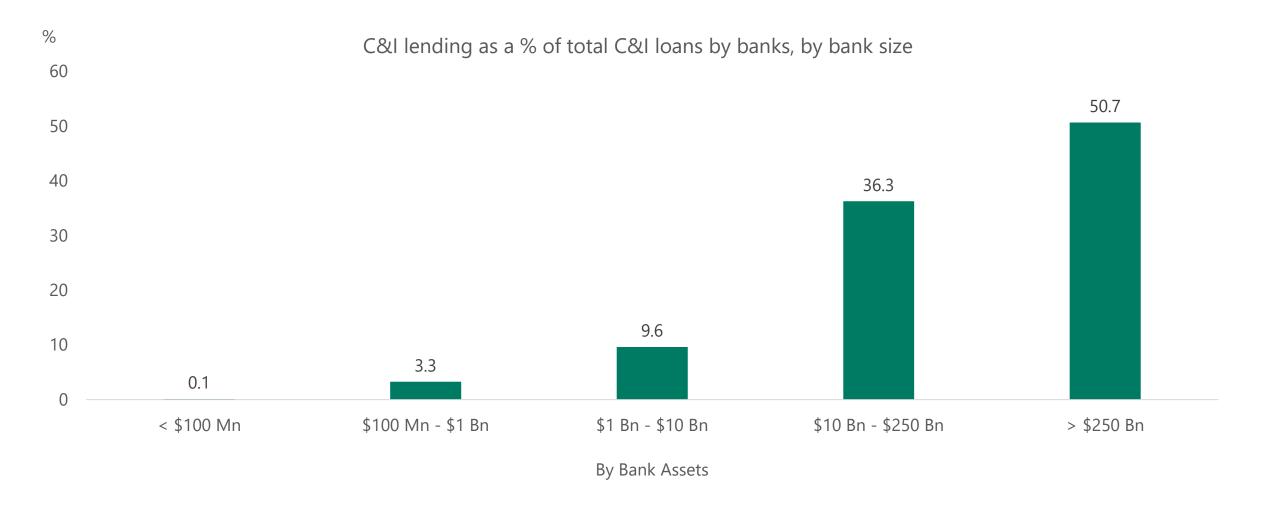
Credit tightening suggests weaker payrolls



Source: FRB, BLS, Haver Analytics, Apollo Chief Economist

Small banks lend to small businesses

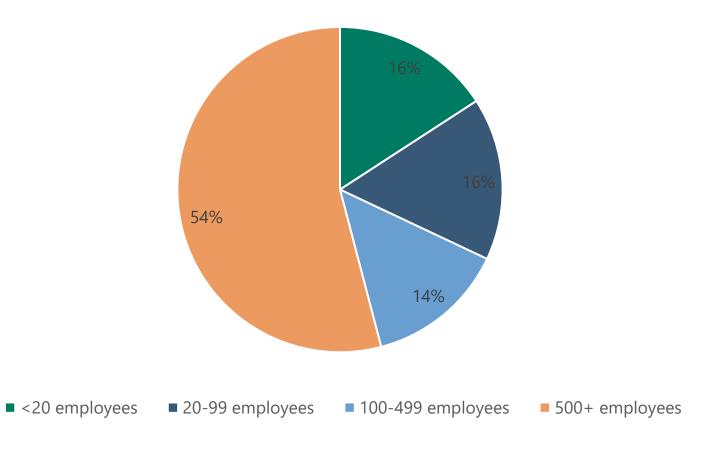
Banks with less than \$250bn in assets account for 50% of commercial and industrial lending



Source: FDIC, Apollo Chief Economist. Data as of Q3 2022

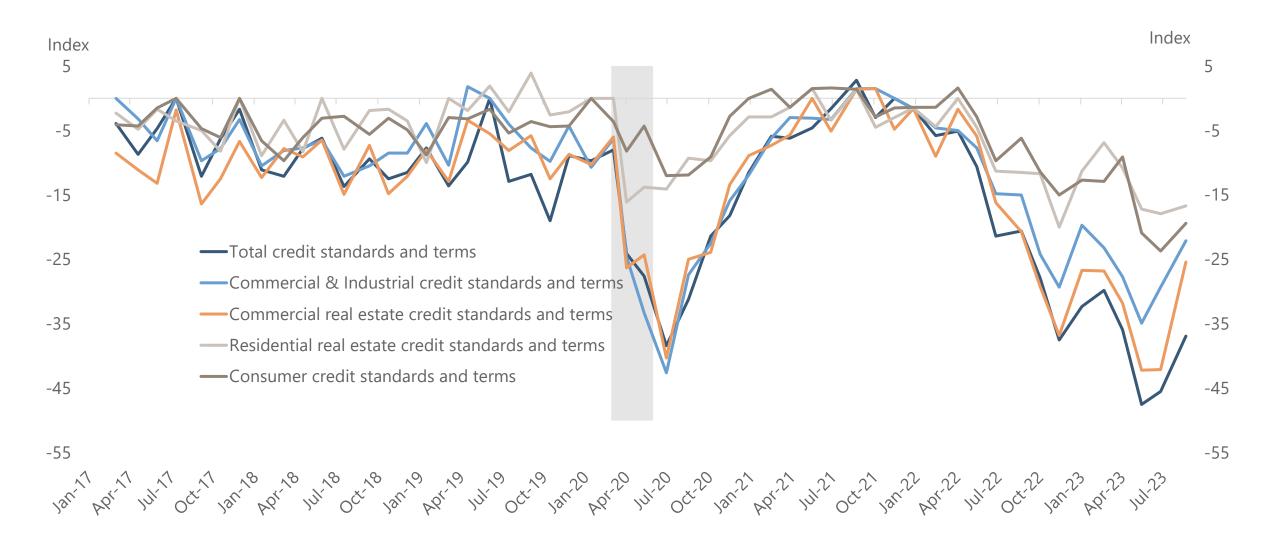
Half of US employment is in firms with fewer than 500 employees

Share of total employment by employment size of the firm, 2020

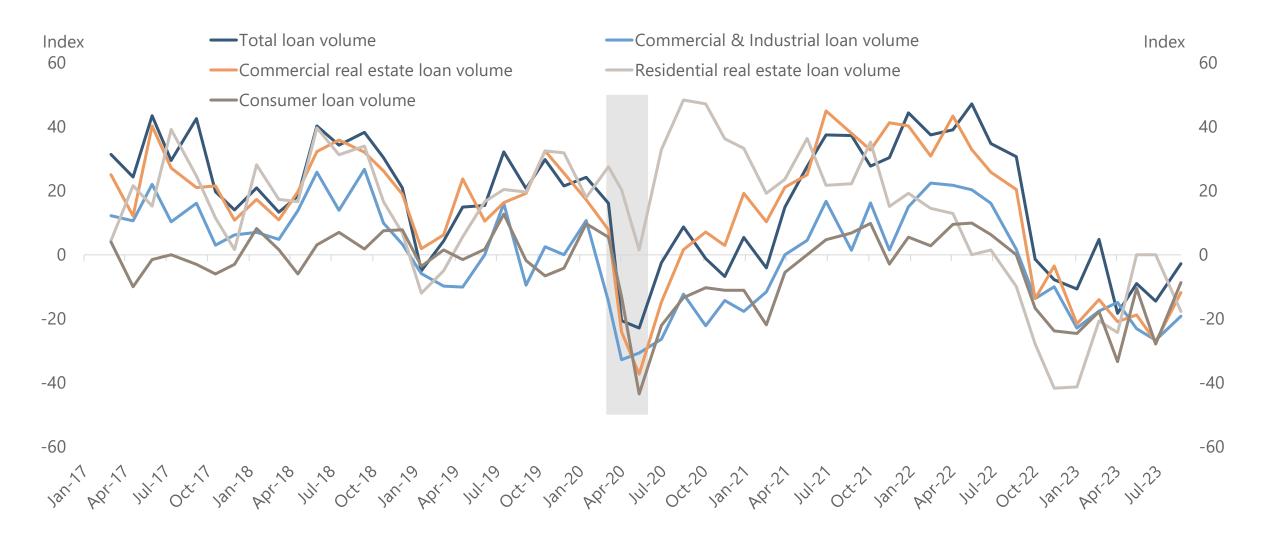


Source: Census, Apollo Chief Economist

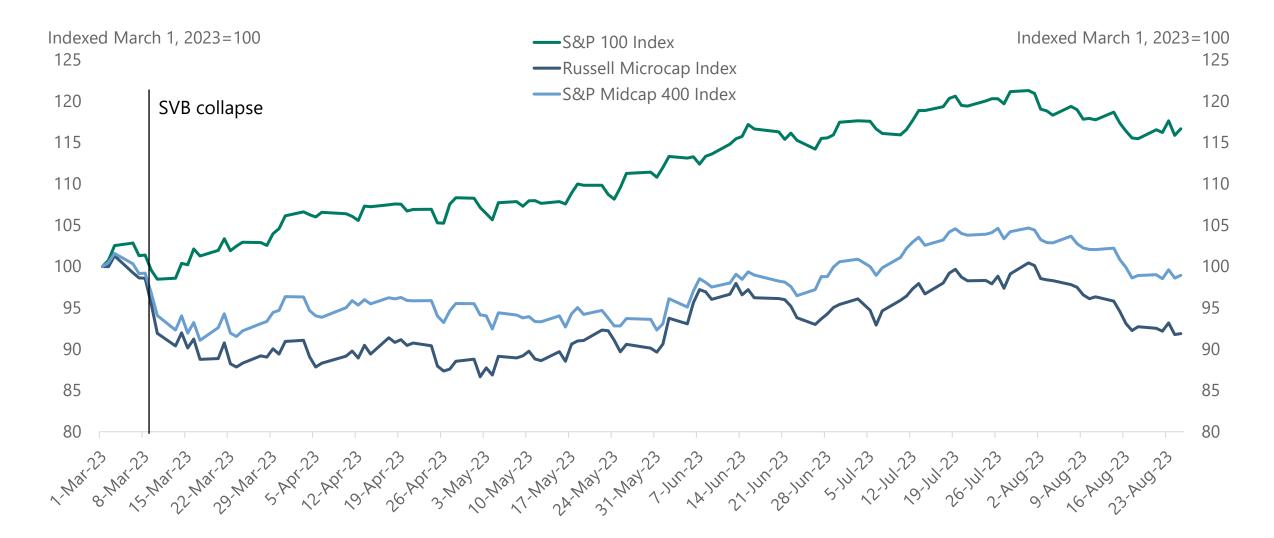
Monthly Fed data for credit standards



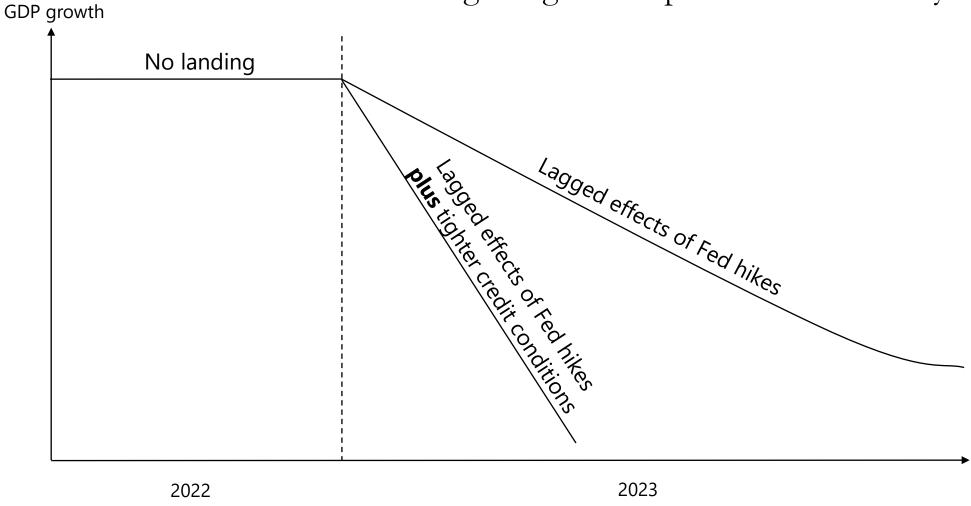
Monthly Fed data for loan volume



Banking crisis having negative impact on small and medium-sized companies



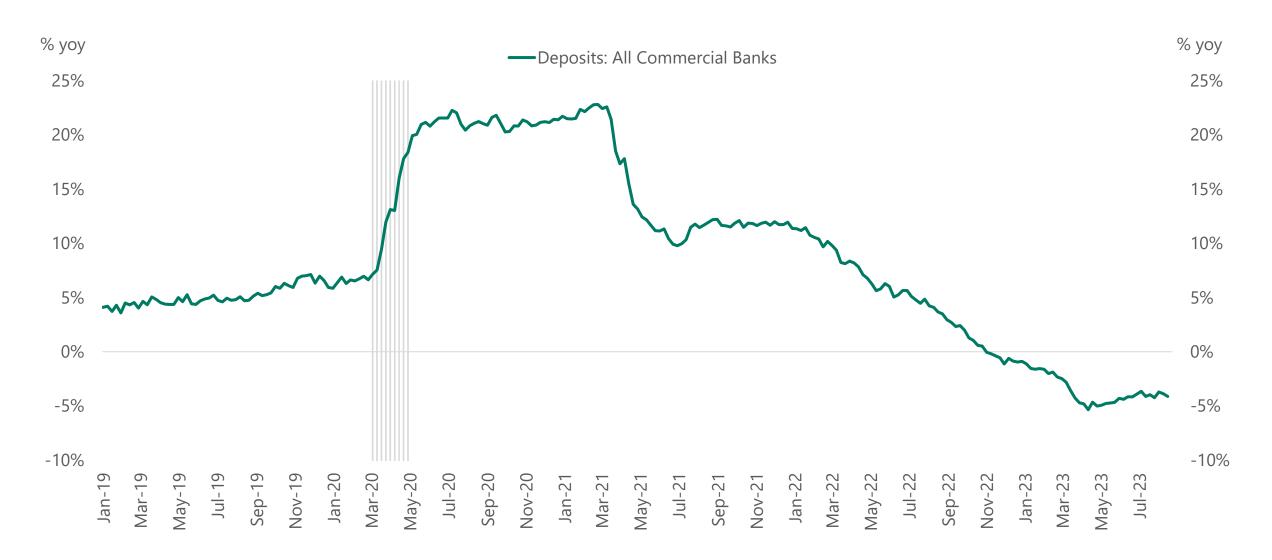
Lagged effects of Fed hikes combined with tighter credit conditions having a negative impact on the economy



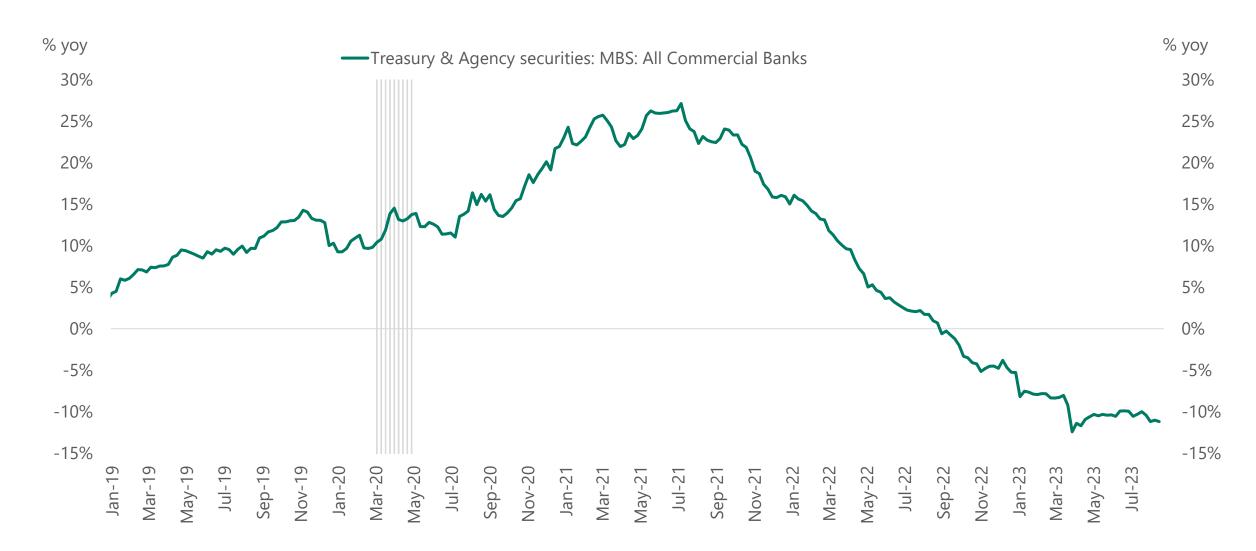
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What is the banking sector response to the SVB collapse and associated deposit outflows? Cutting lending and selling mortgages

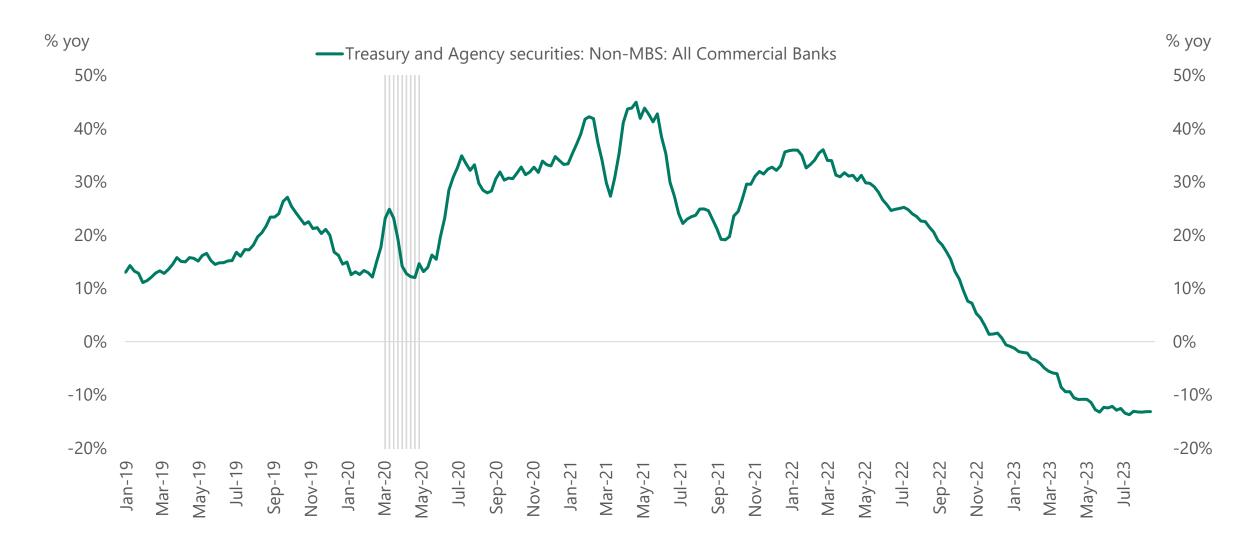
Negative growth in deposits



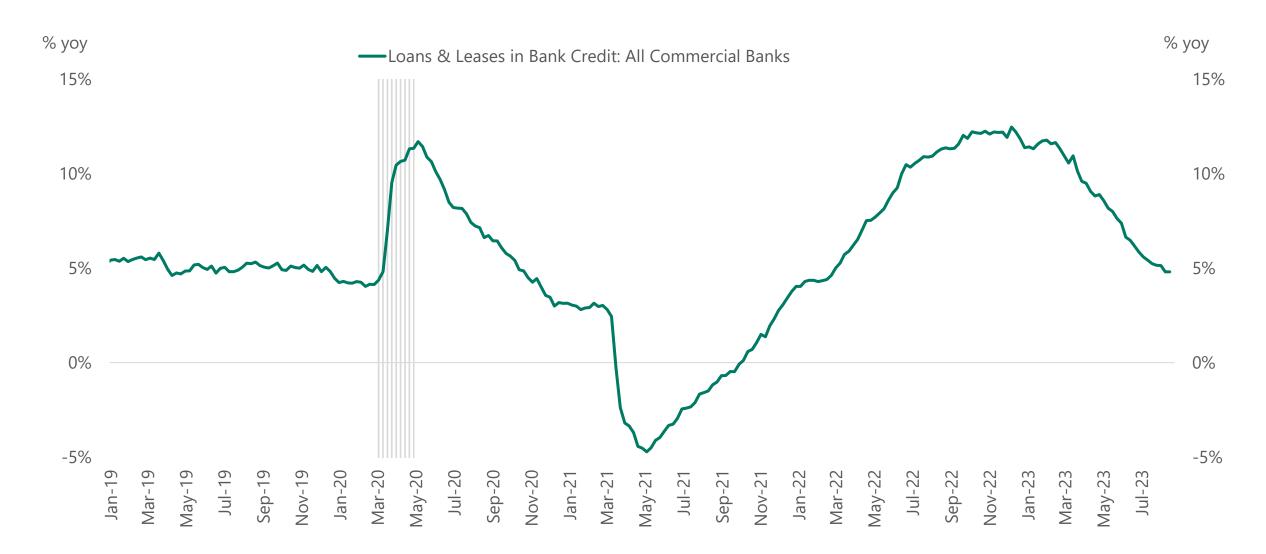
Negative growth in bank holdings of mortgages



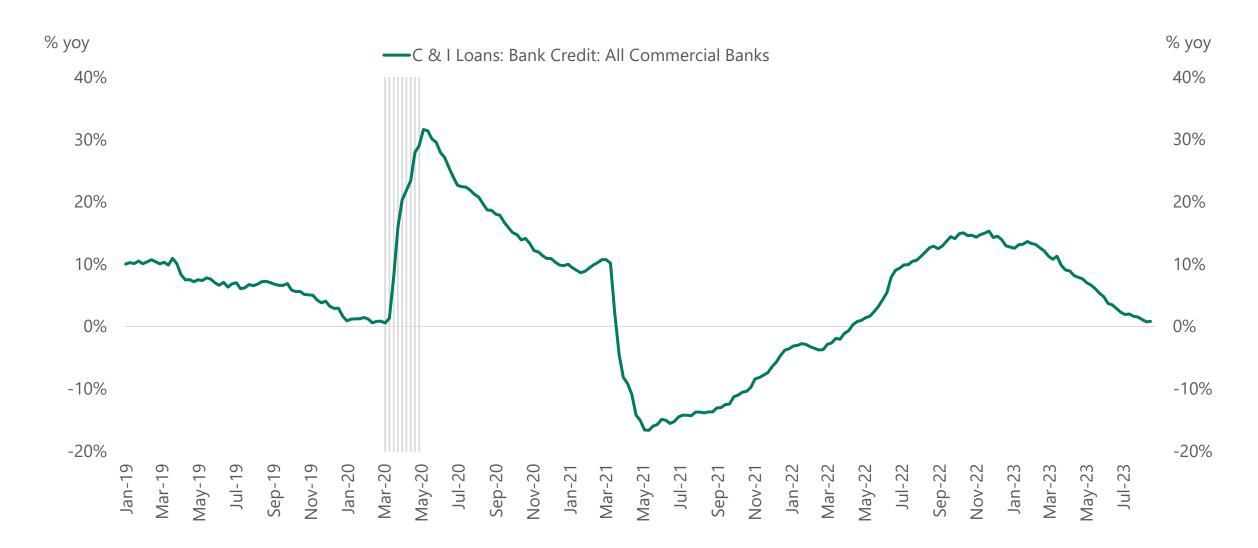
Growth in bank holdings of Treasuries



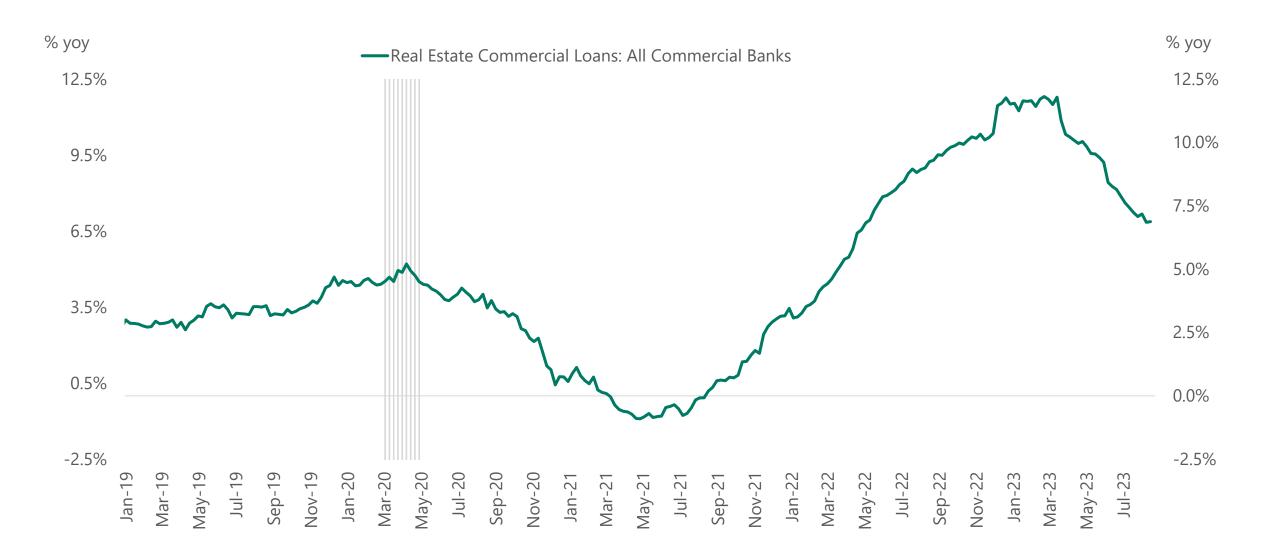
Bank loan growth declining



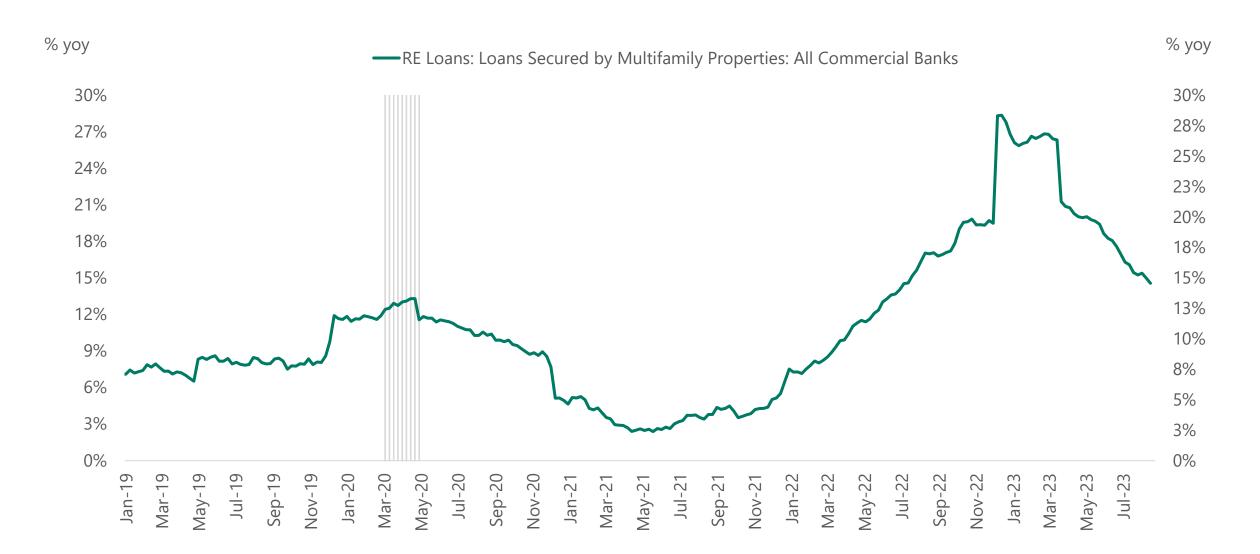
Decline in growth in lending to corporates



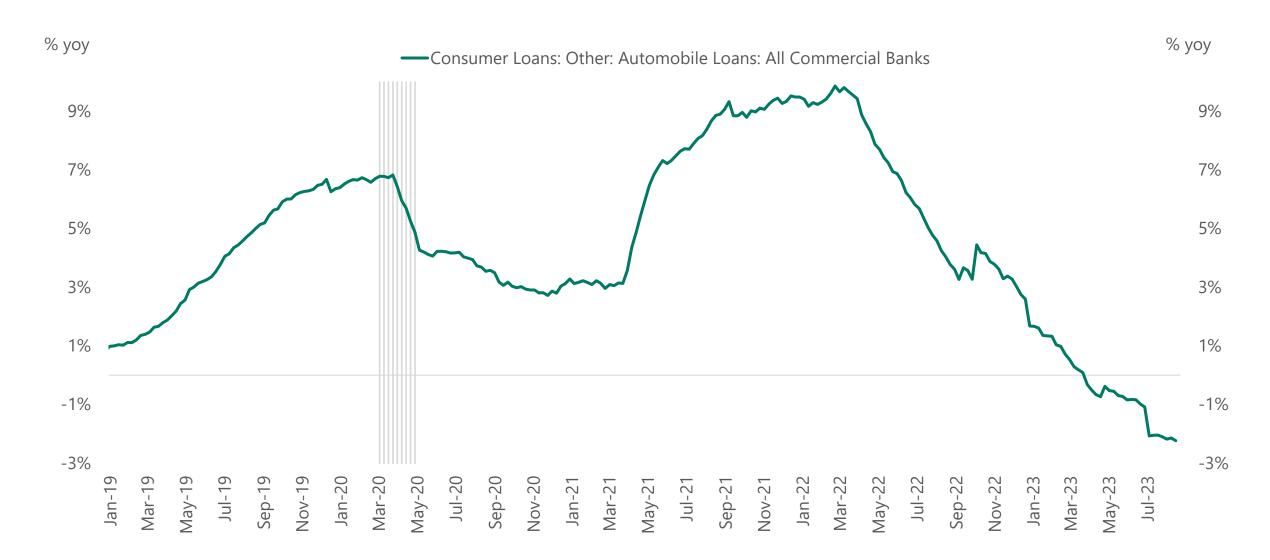
Decline in growth in real estate lending



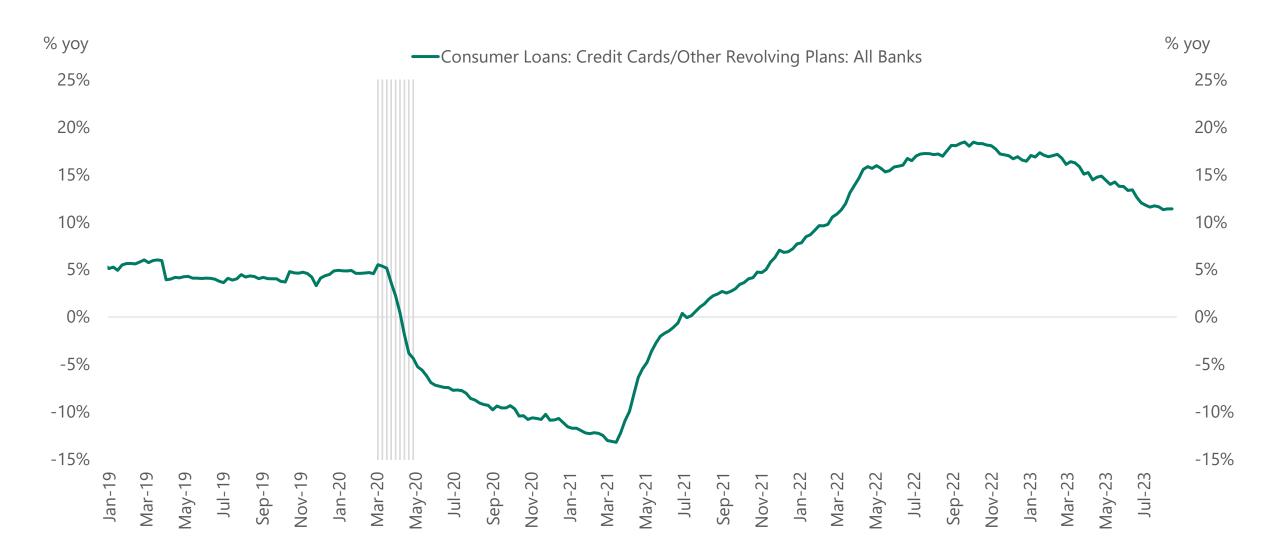
Decline in growth in lending to multifamily construction



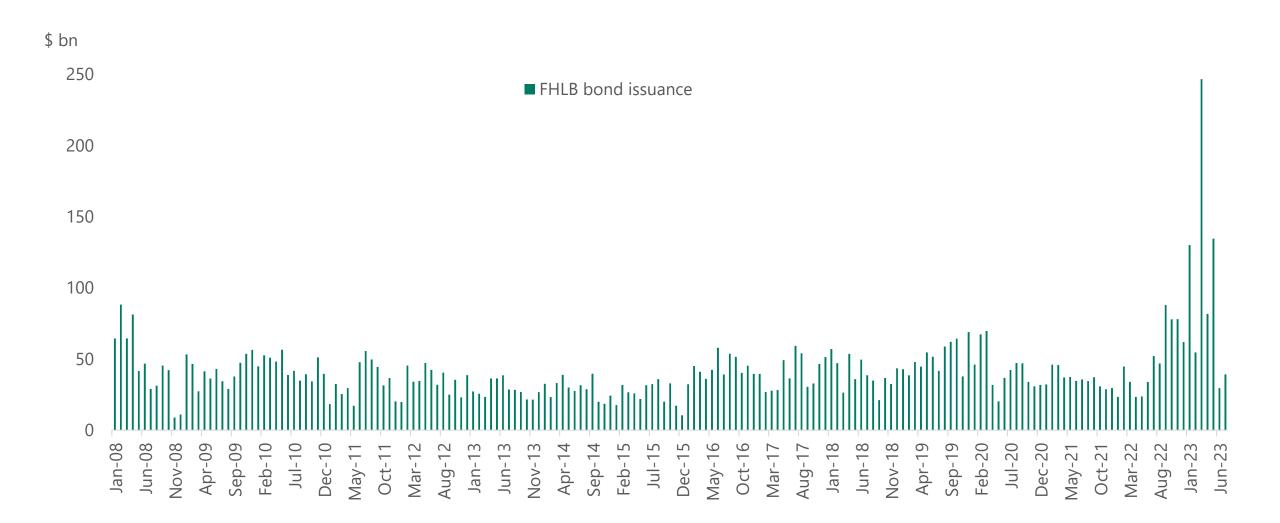
Negative growth in auto loan lending



Decline in growth in credit card lending



FHLB bond issuance



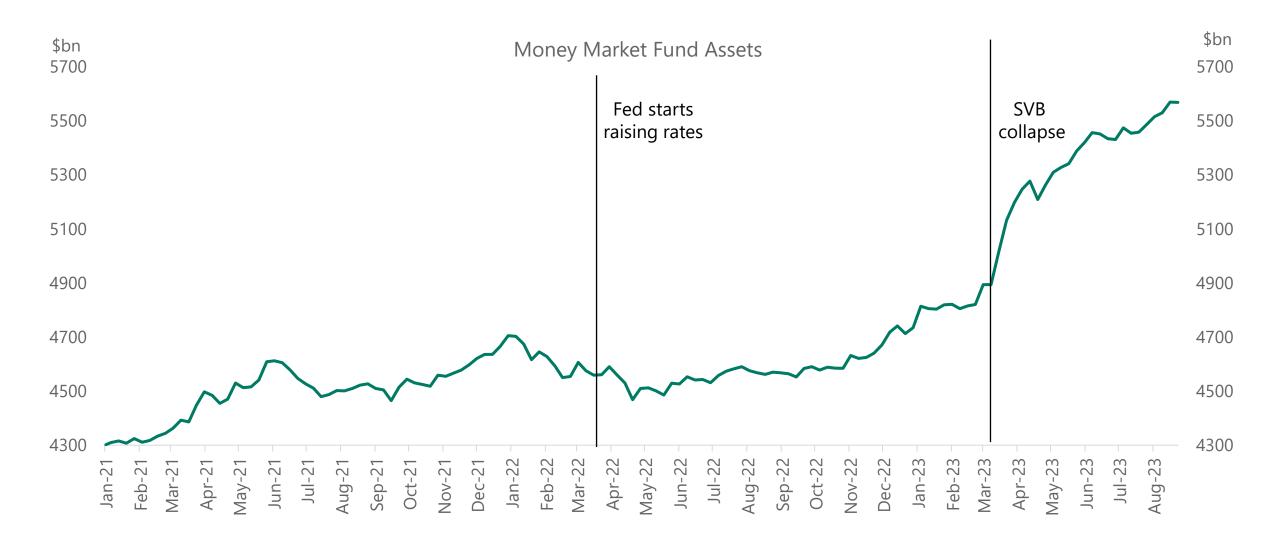
Source: FHLB, Haver, Apollo Chief Economist.

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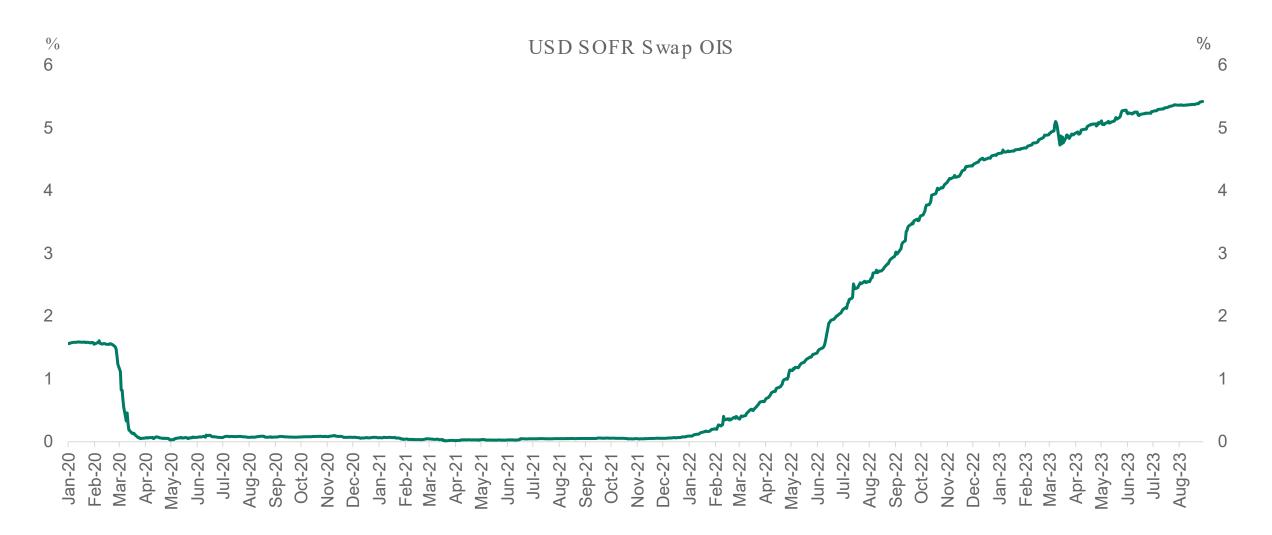
Bank funding pressures:

Deposits and market-based measures

\$675bn has been moved into money market funds since SVB went under

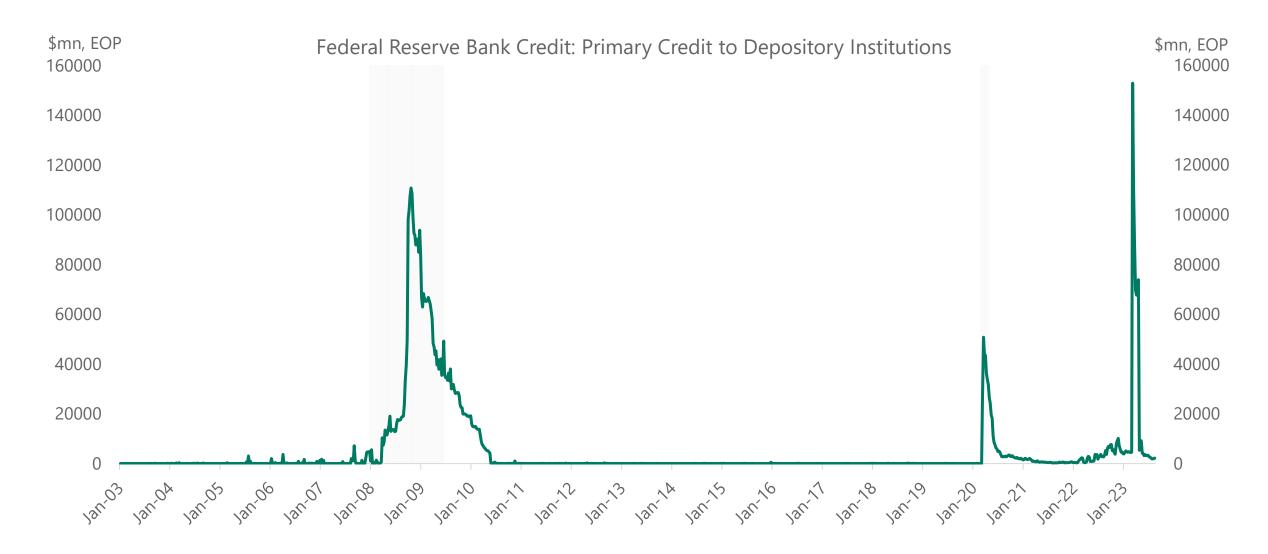


SOFR OIS Swap

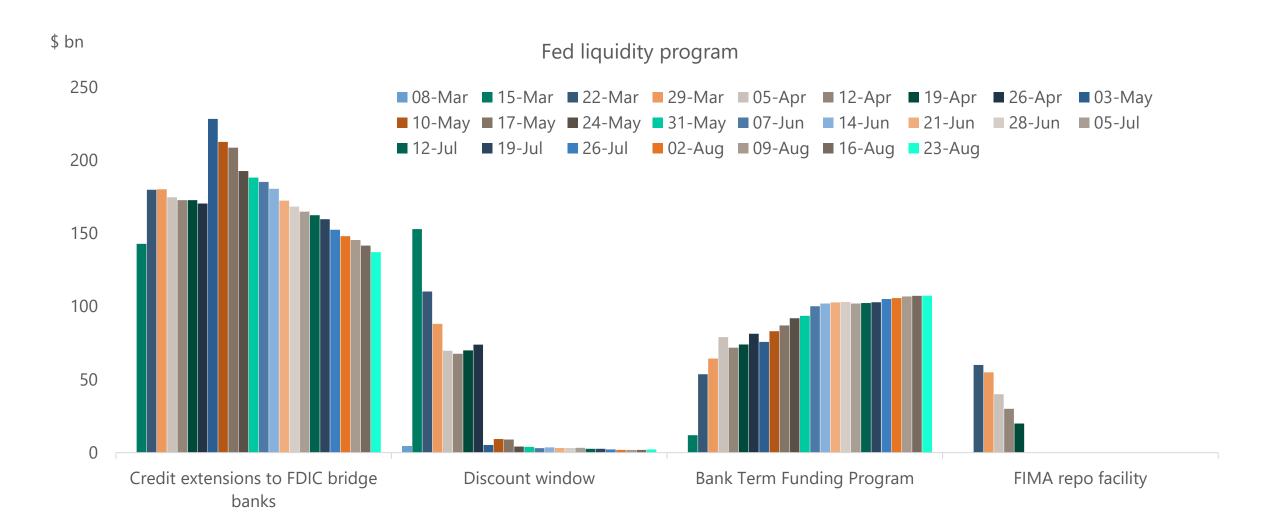


Source: Bloomberg. Note: Ticker used USFOSC1 BGN Currency. As of Aug 28, 2023.

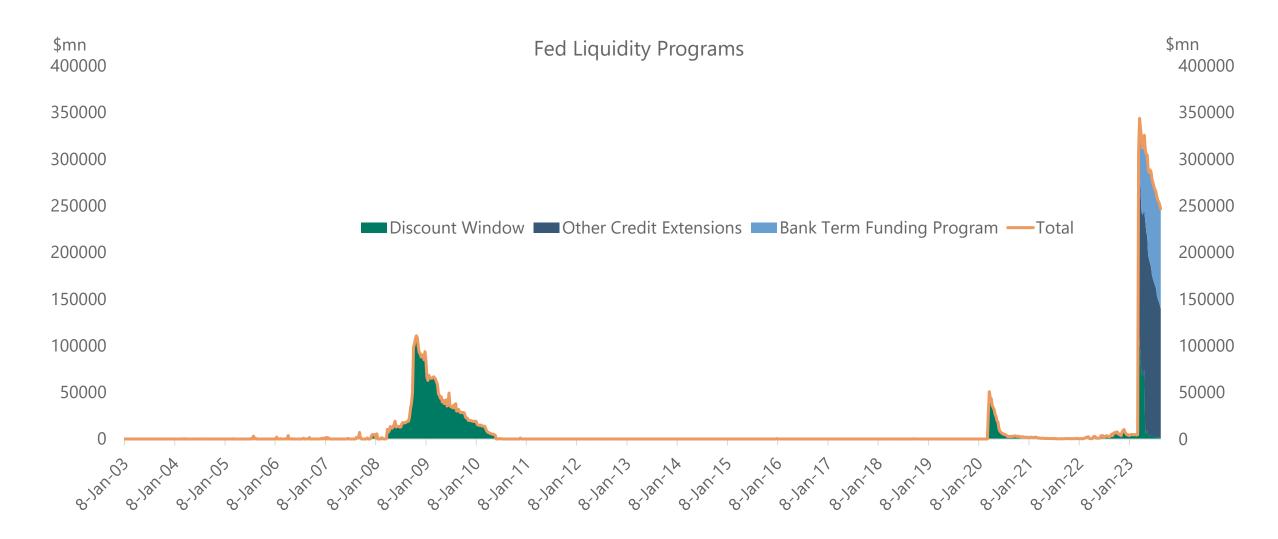
Fed Discount Window borrowing was higher during regional banking crisis than in 2008



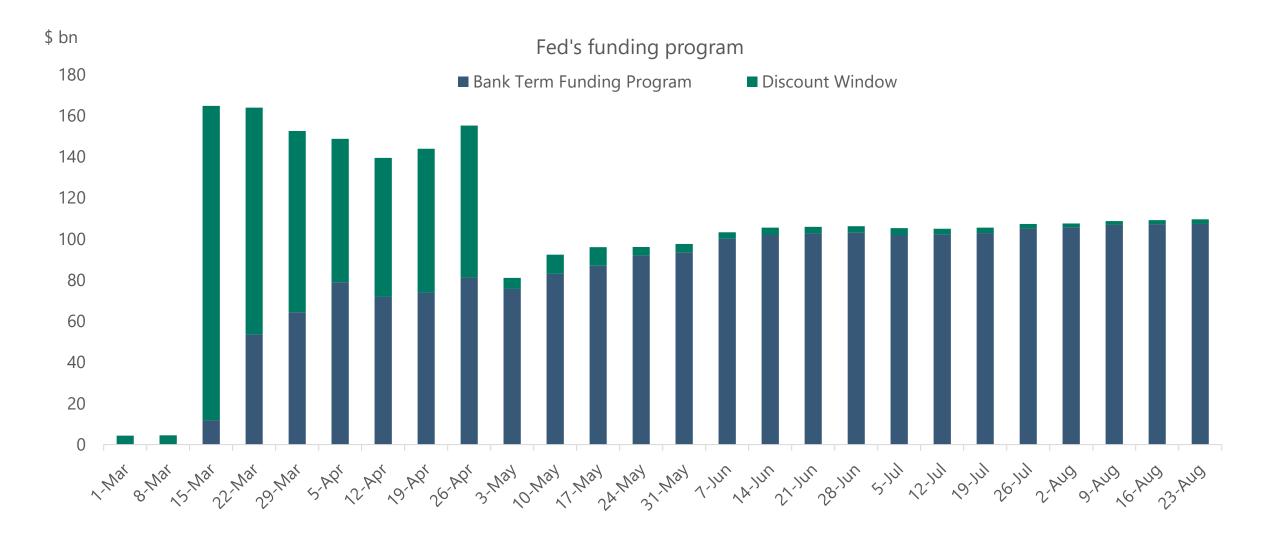
Fed liquidity programs



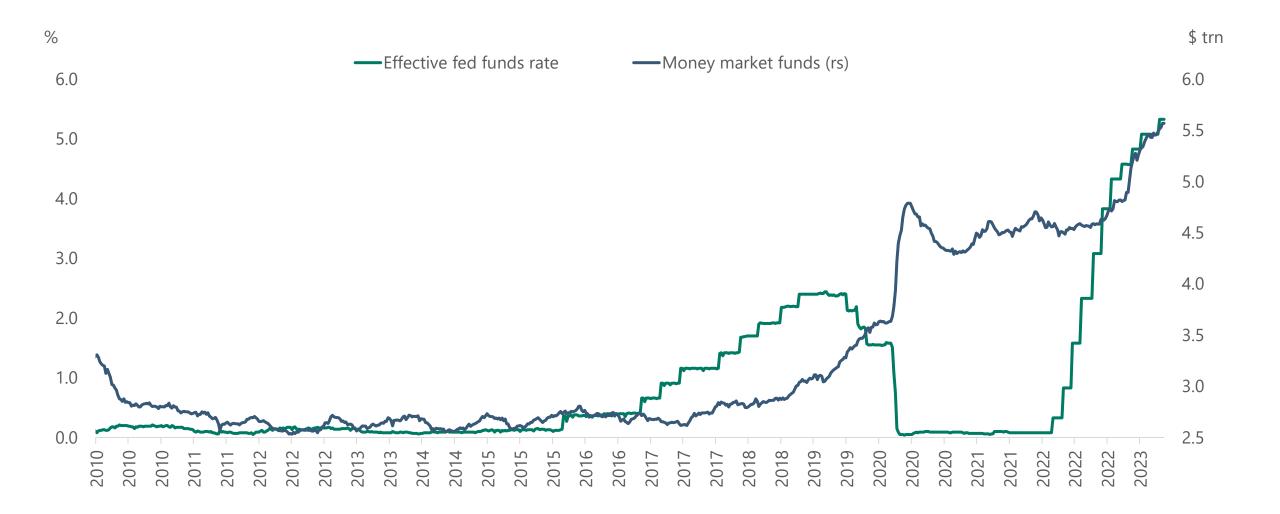
Fed liquidity borrowing higher during regional banking crisis than in 2008



Increased borrowing through the Bank Term Funding Program

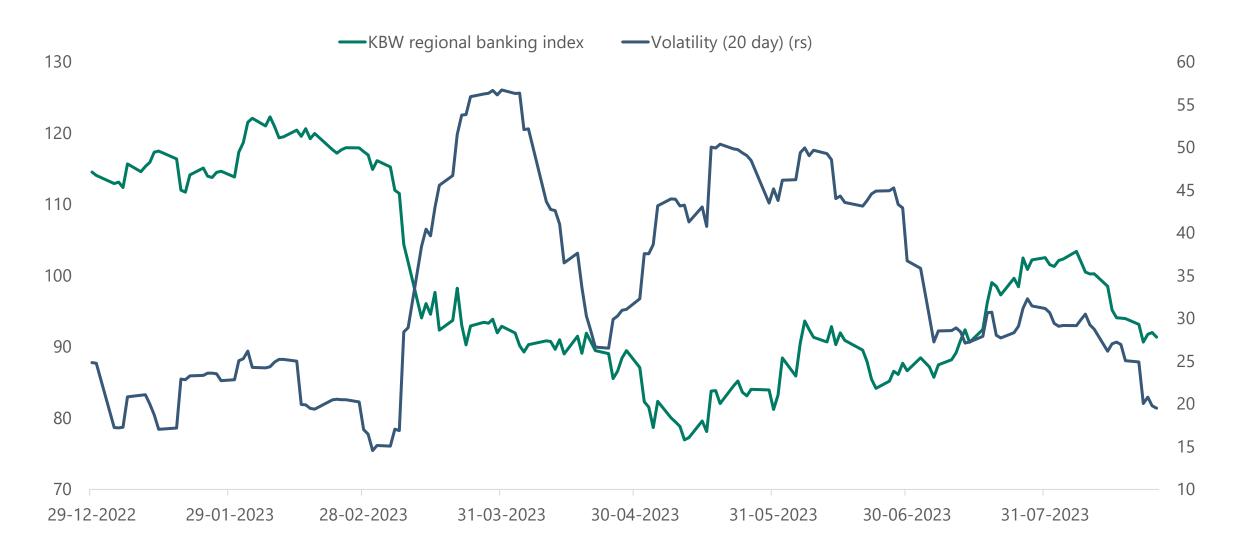


Money market funds during the current tightening cycle



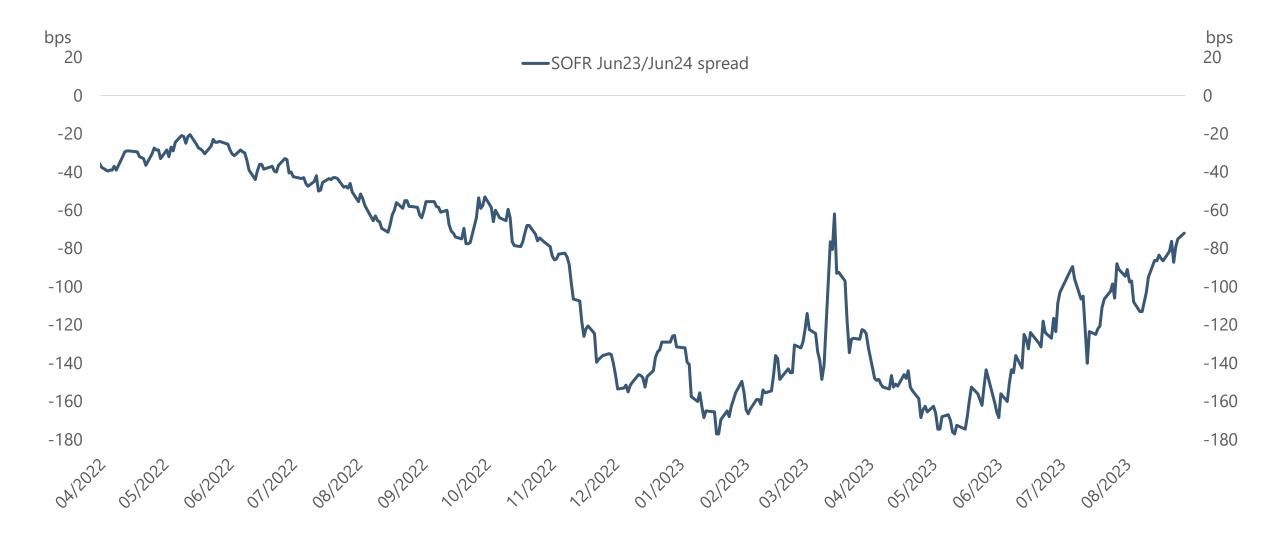
Source: FRB, ICI, Bloomberg, Apollo Chief Economist.

Regional Bank volatility has declined



Source: Bloomberg, Apollo Chief Economist.

SOFR spreads currently pricing aggressive Fed cuts in 2024

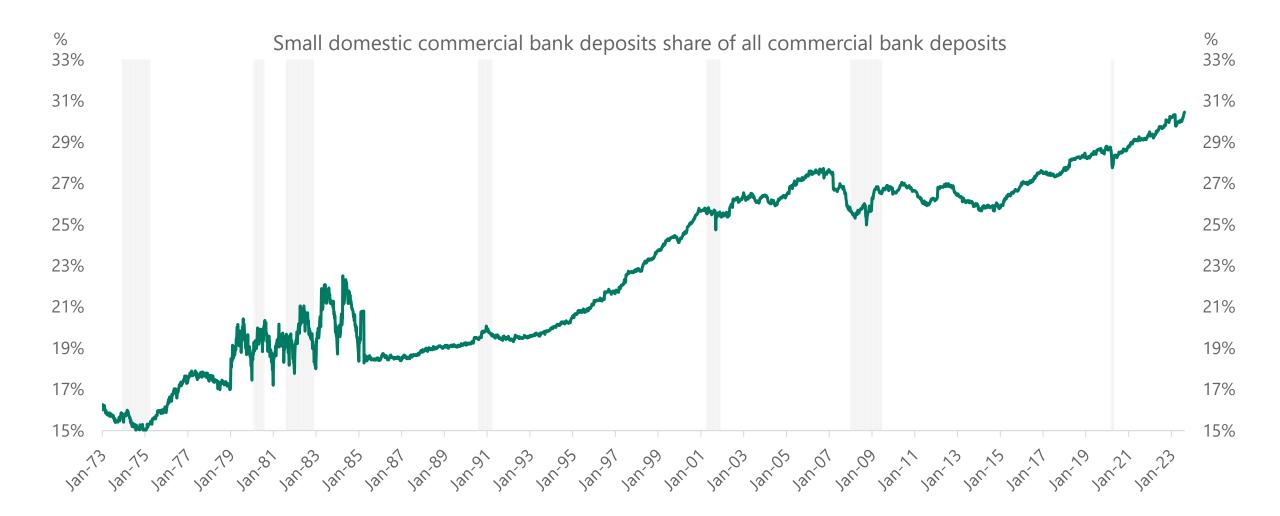


Source: Bloomberg, Apollo Chief Economist.

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What is happening with deposits in regional banks?

Small banks account for about 30% of total deposits in the banking sector, and the share has been rising since the 2008 financial crisis

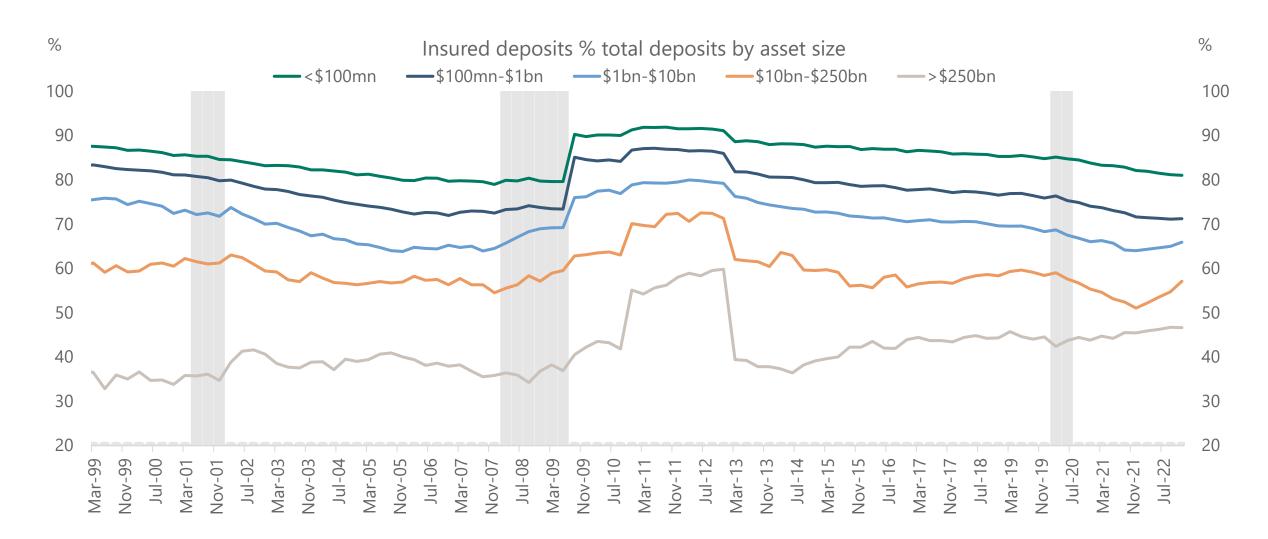


Share of total bank deposits that are uninsured: 40%



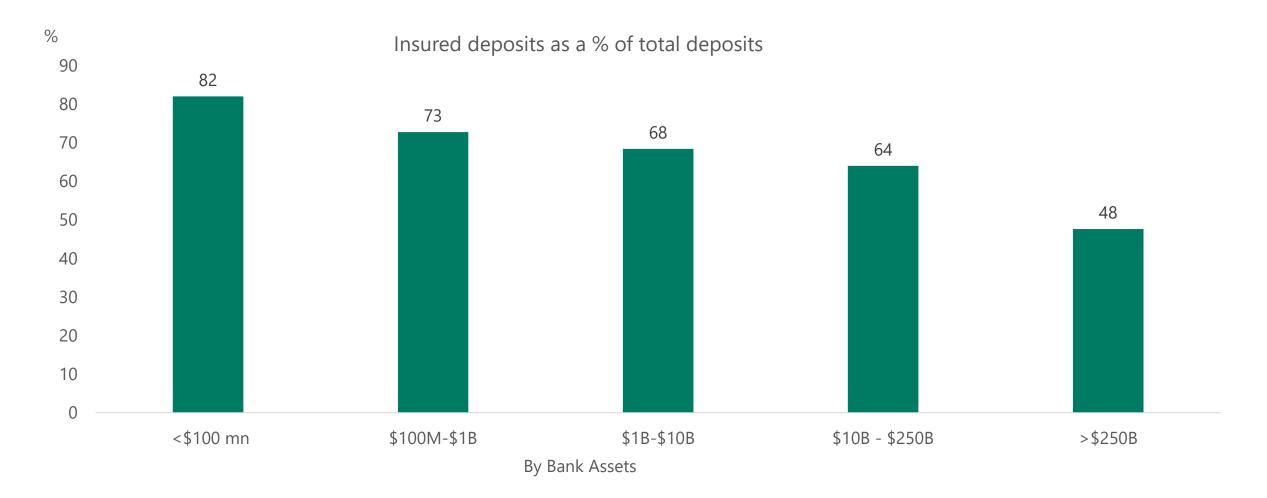
Source: FDIC, Haver Analytics, Apollo Chief Economist.

Share of insured deposits, by bank size

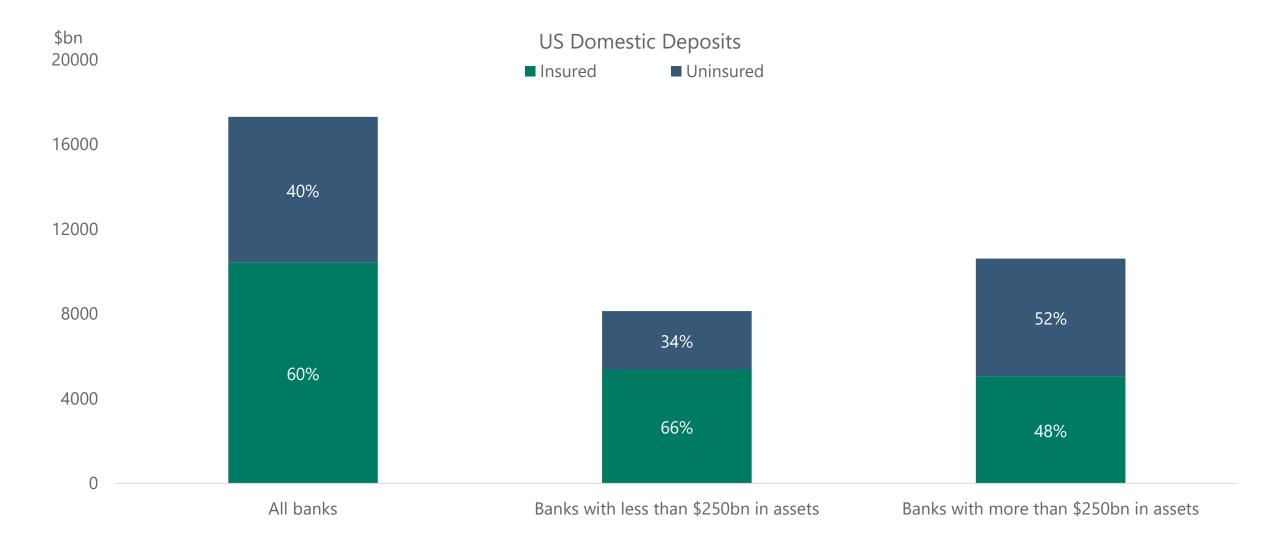


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Share of insured deposits, by bank size

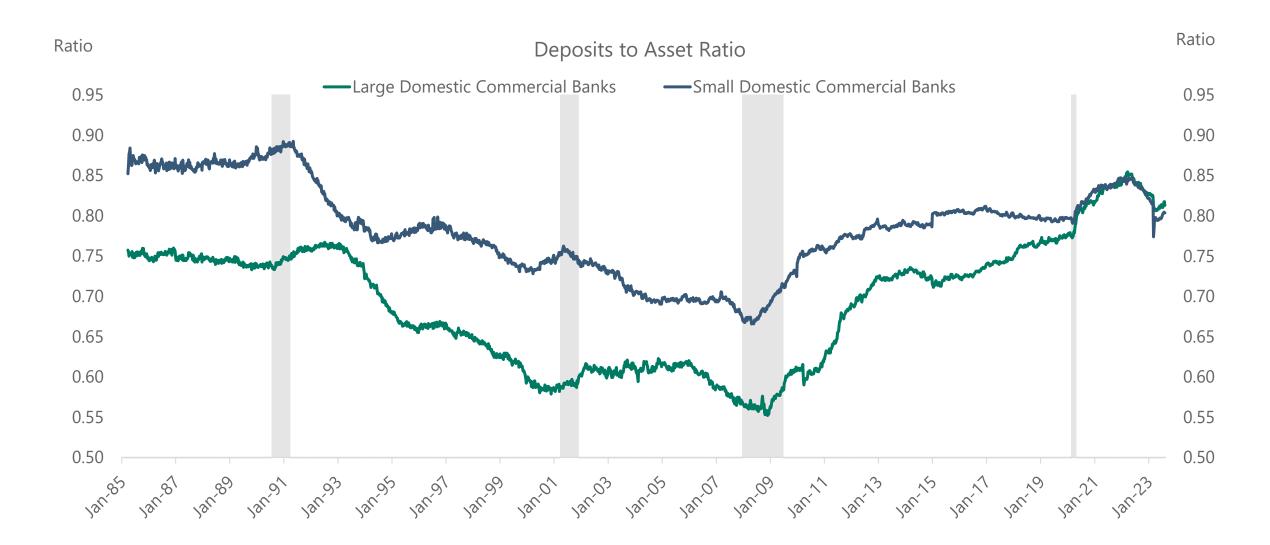


Share of insured deposits, by bank size

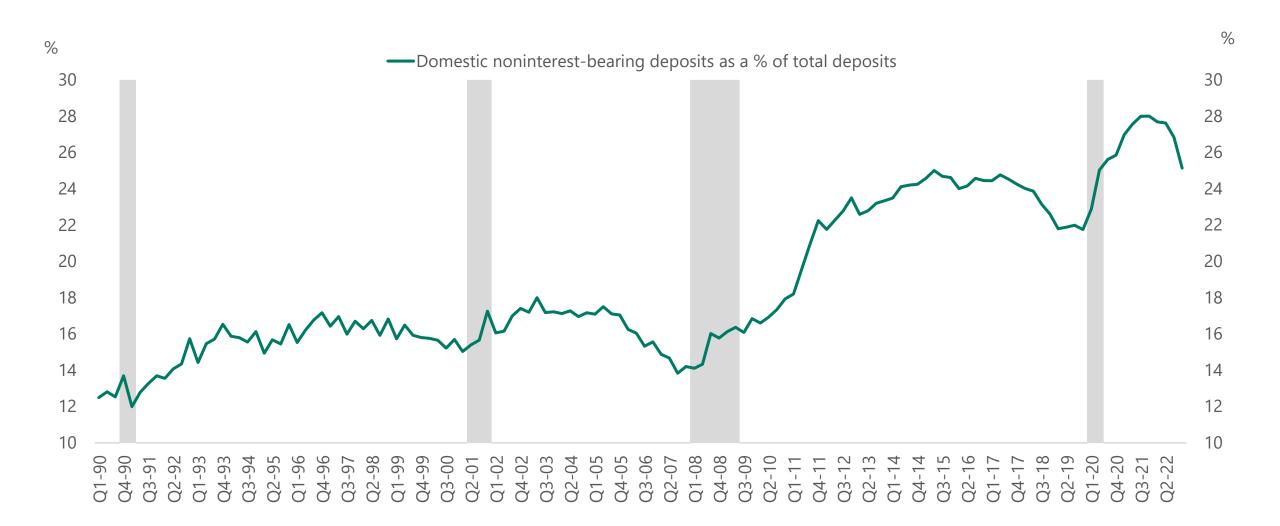


Source: FDIC, Haver Analytics, Apollo Chief Economist. As of Q1 2023

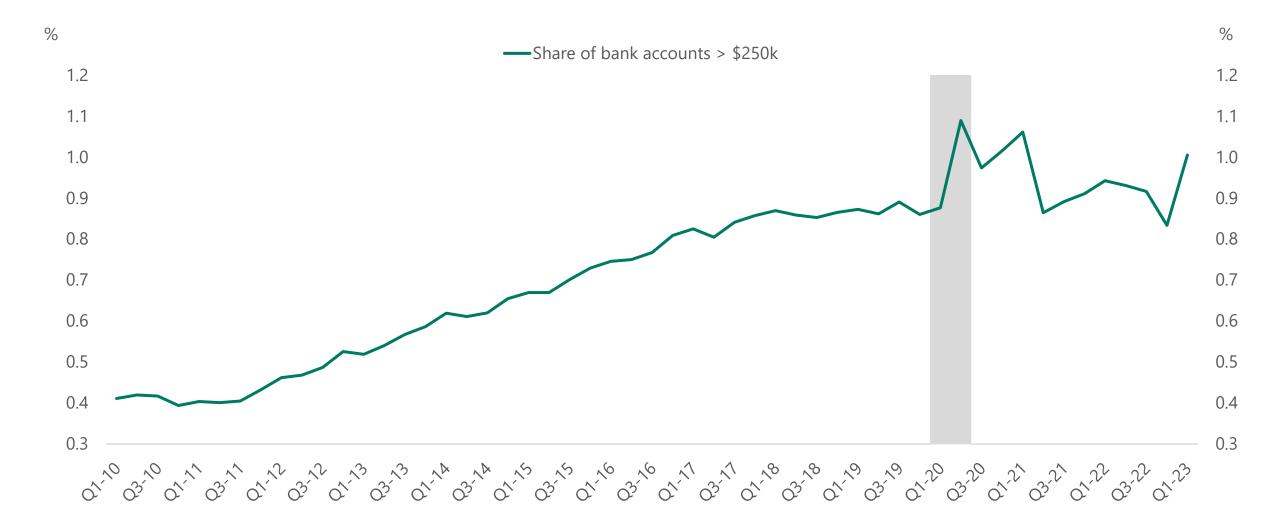
Deposit to asset ratio for large and small banks



The share of bank deposits paying zero interest rate is declining



1% of bank accounts have a balance higher than \$250k

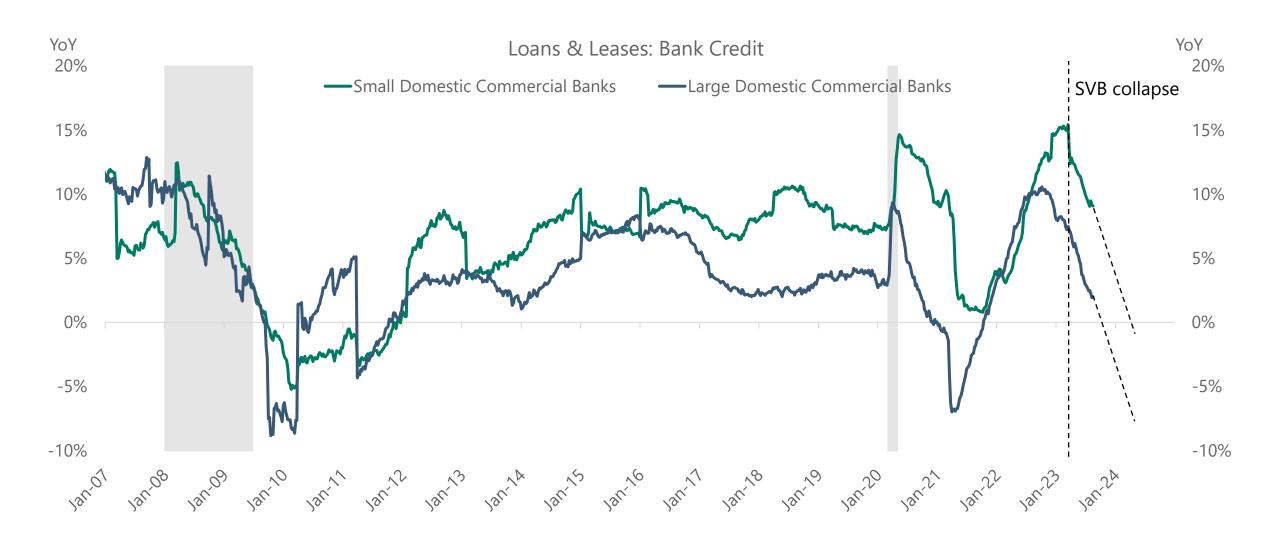


Source: FDIC, Haver Analytics, Apollo Chief Economist

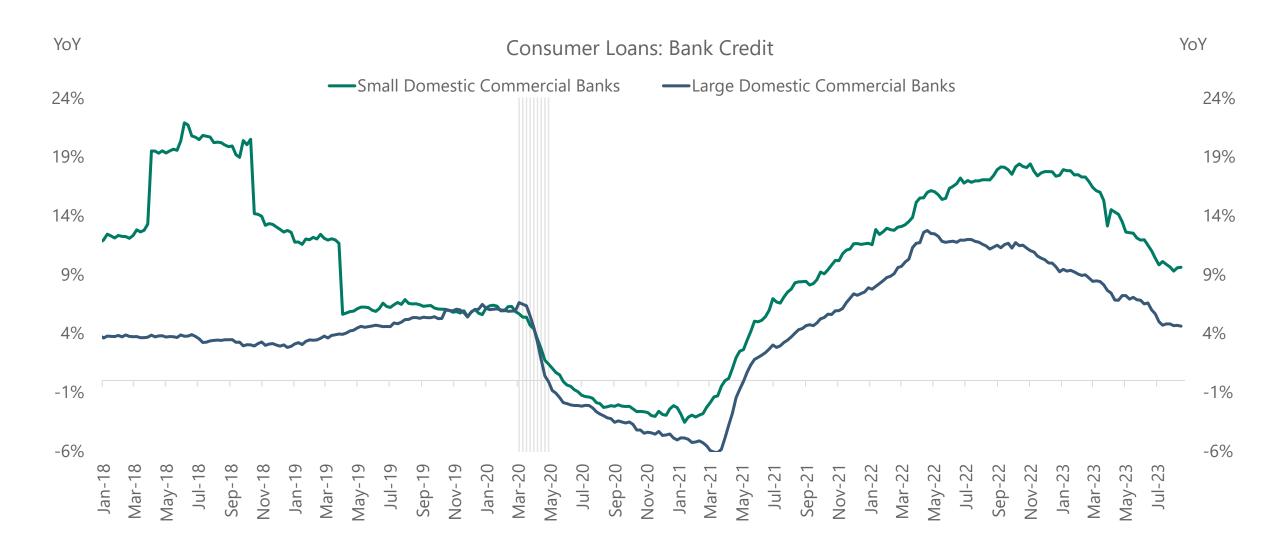
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Weekly data for bank lending by small and large banks

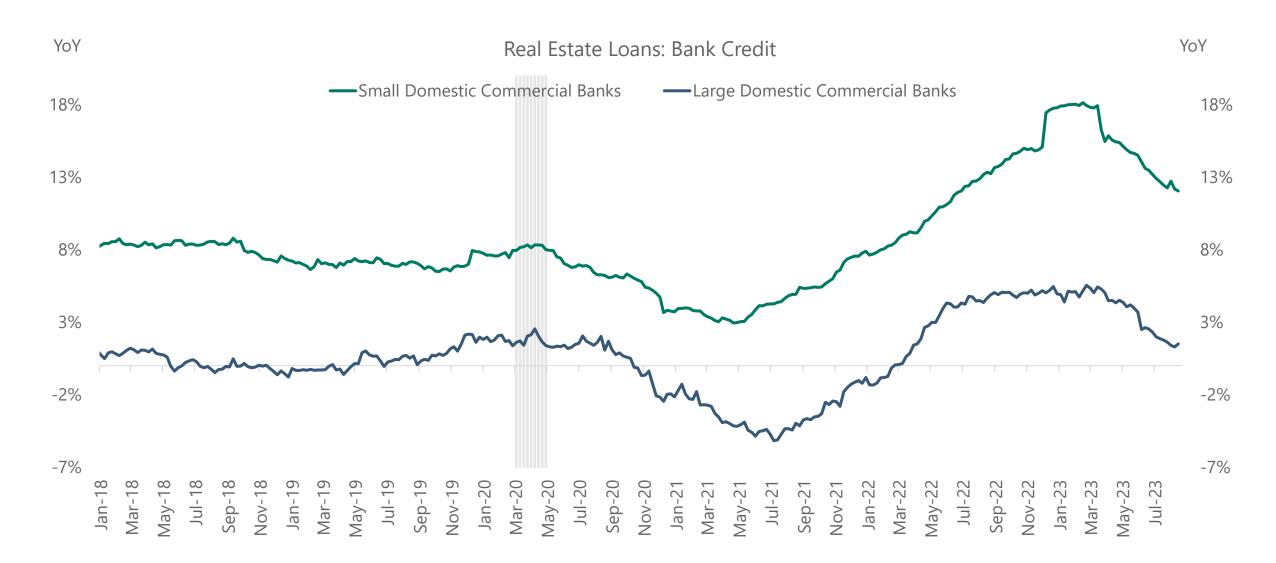
Weekly data shows small and large bank lending growth slowing rapidly after SVB



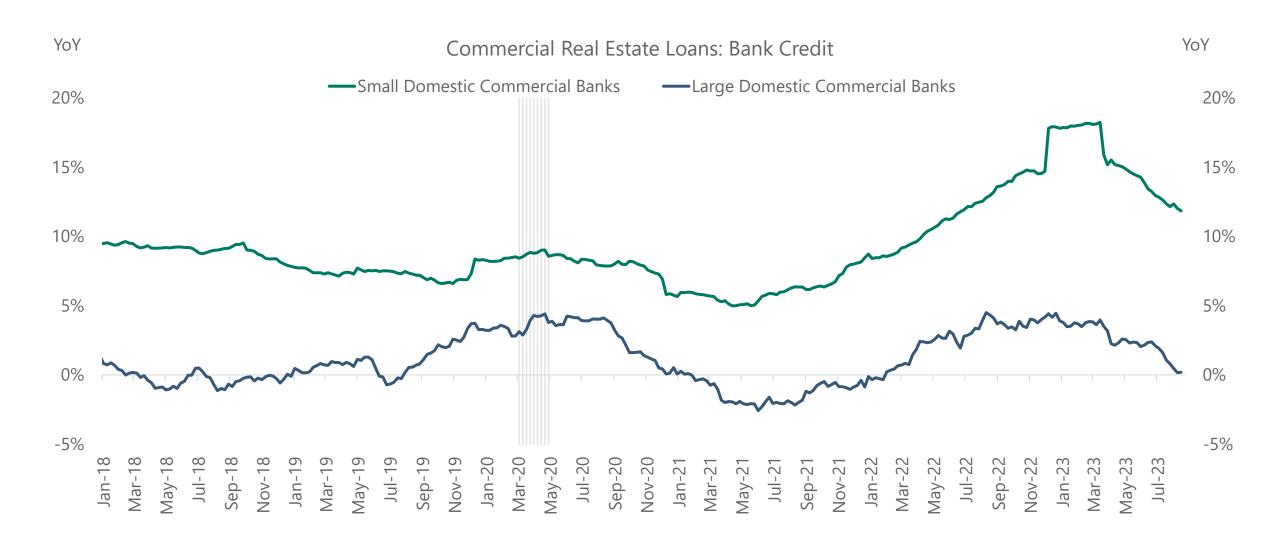
Lending to consumers is slowing for both small and large banks



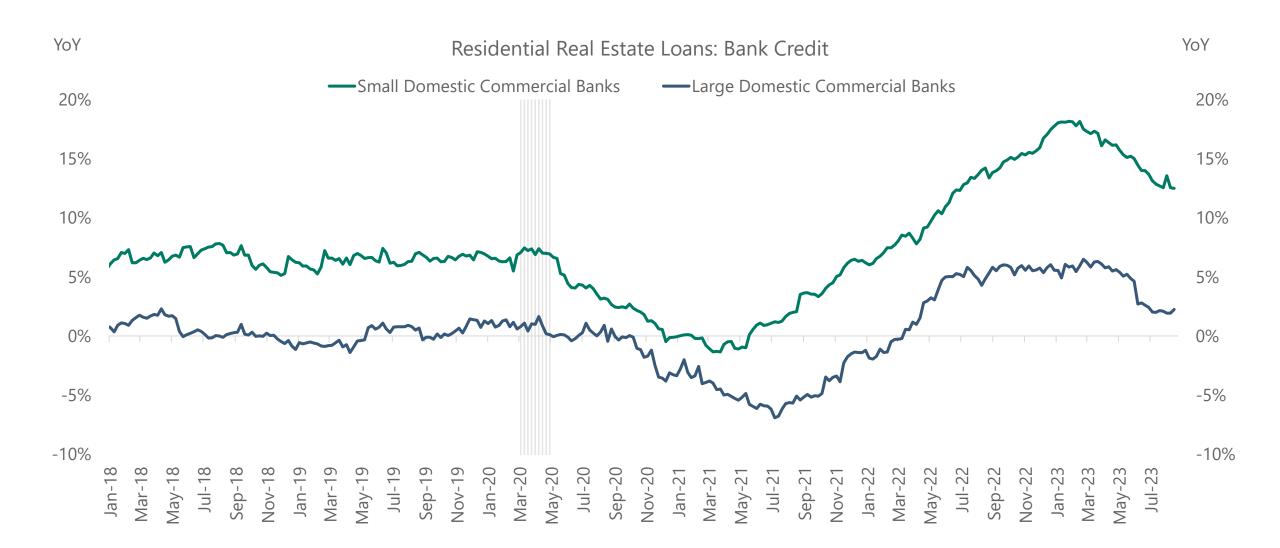
Real estate lending is slowing for both small and large banks



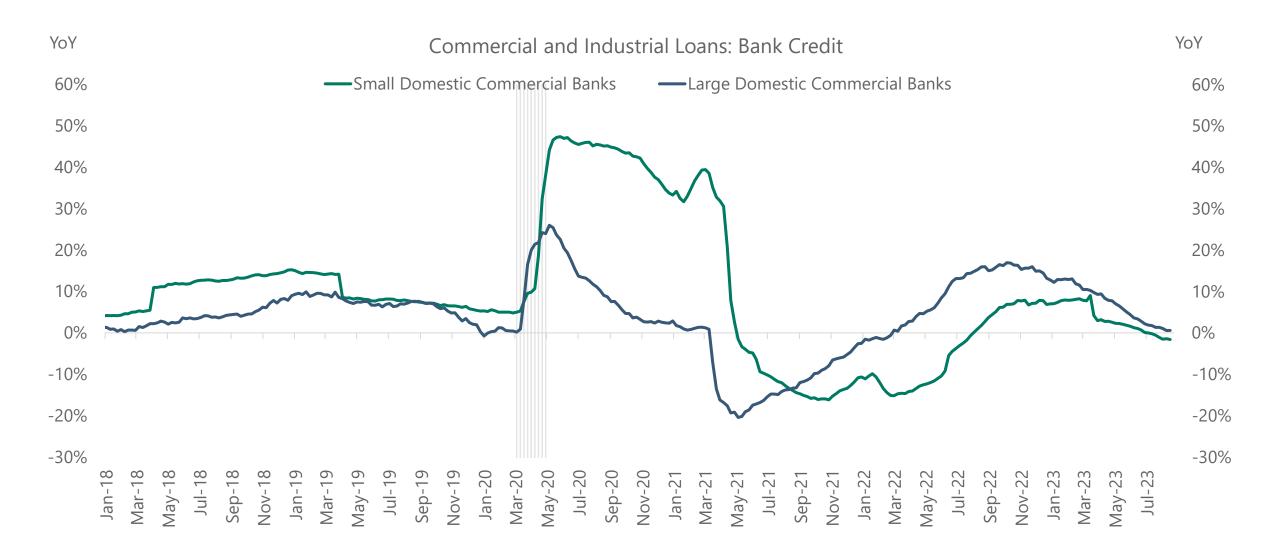
Commercial real estate lending is slowing for both small and large banks



Residential real estate lending is slowing for both small and large banks



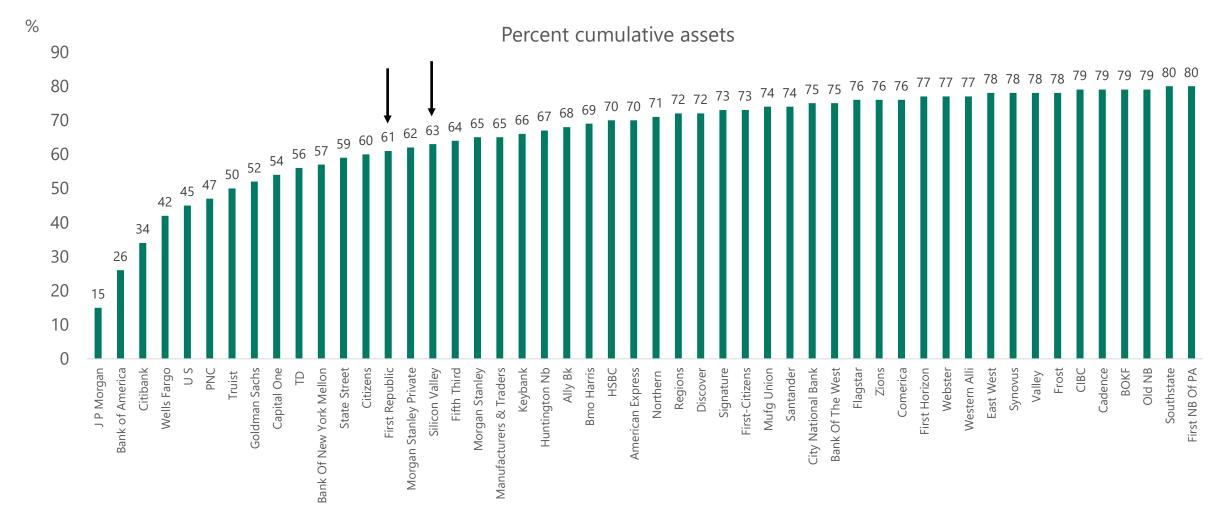
Lending to corporates is slowing for both small and large banks



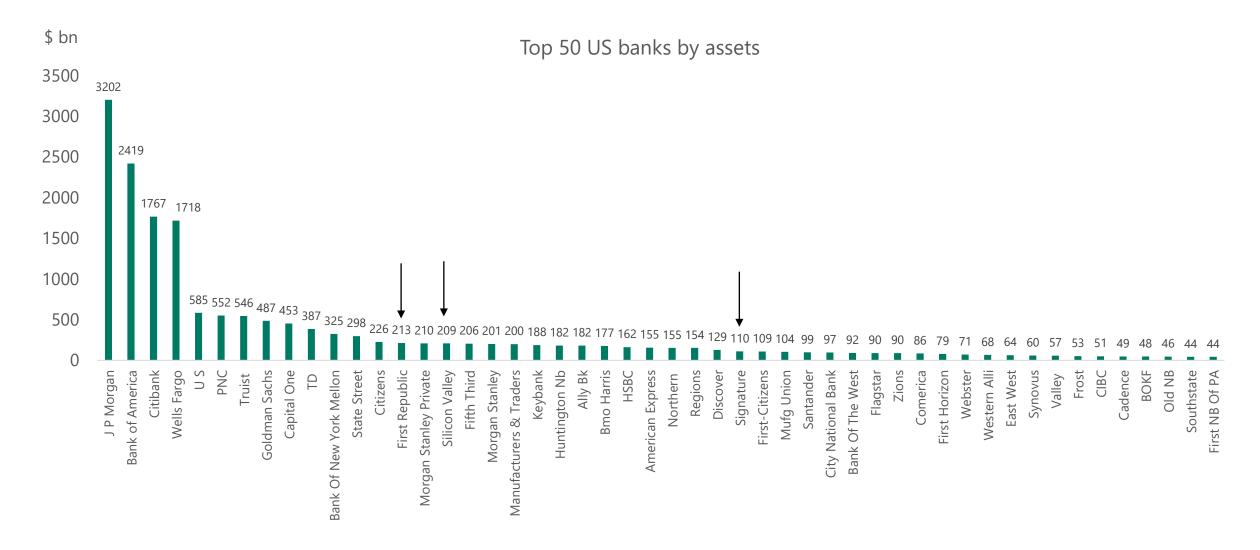
US banks by asset size:

The importance of regional banks for the US economy

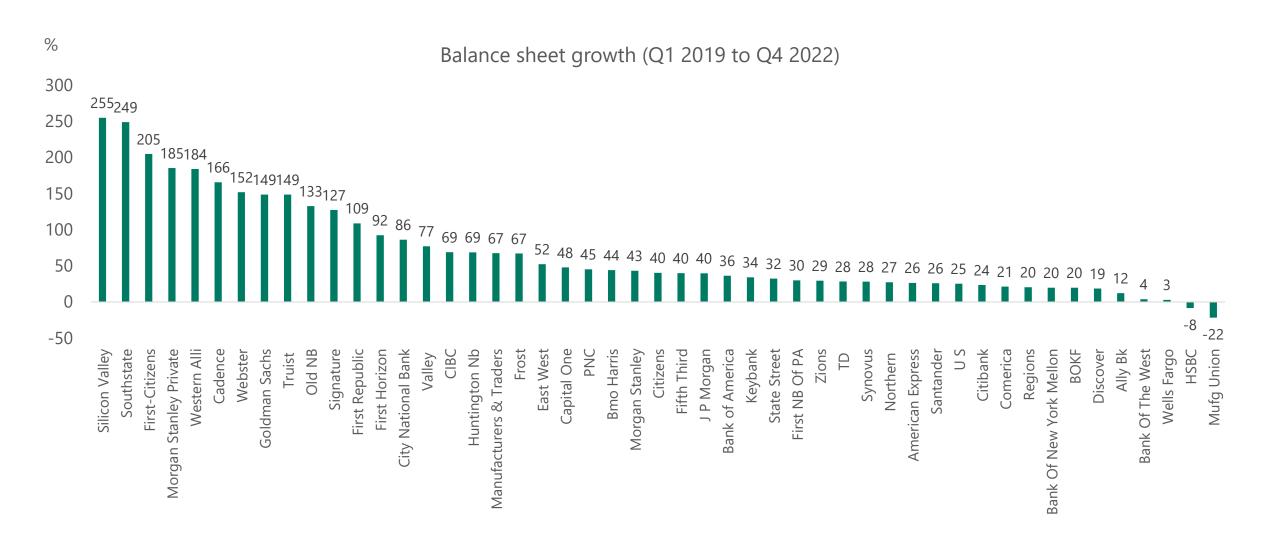
Tighter credit conditions are coming: Banks "to the right" of SVB are likely to start reorganizing their balance sheets



Top 50 US banks by assets

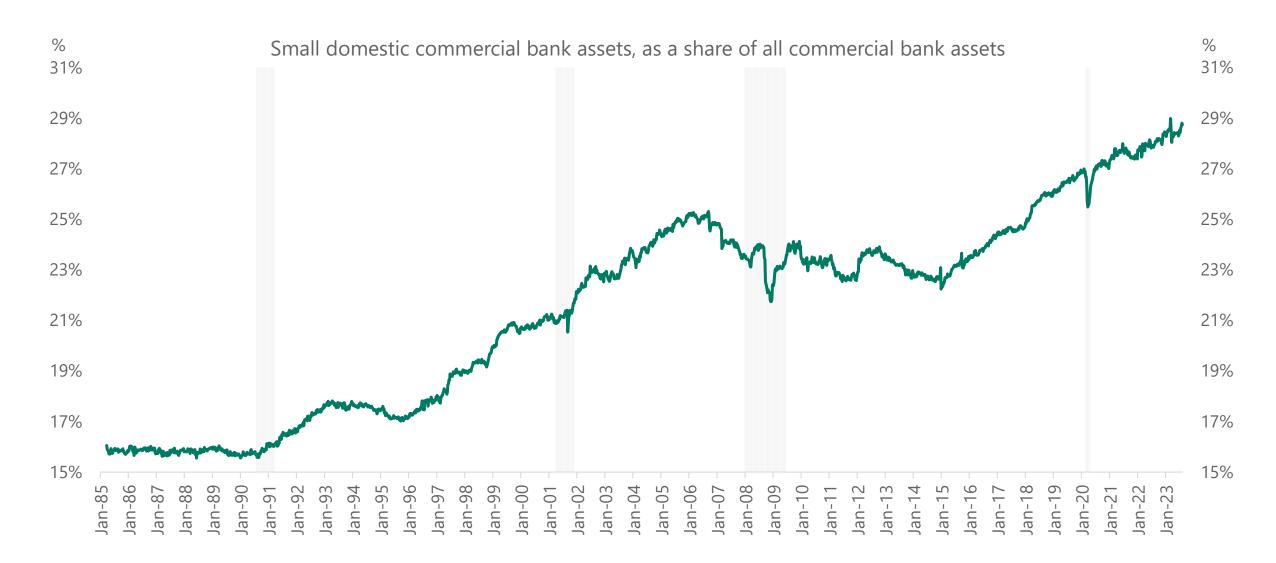


Balance sheet growth of US banks, ranked by fastest growth in percent

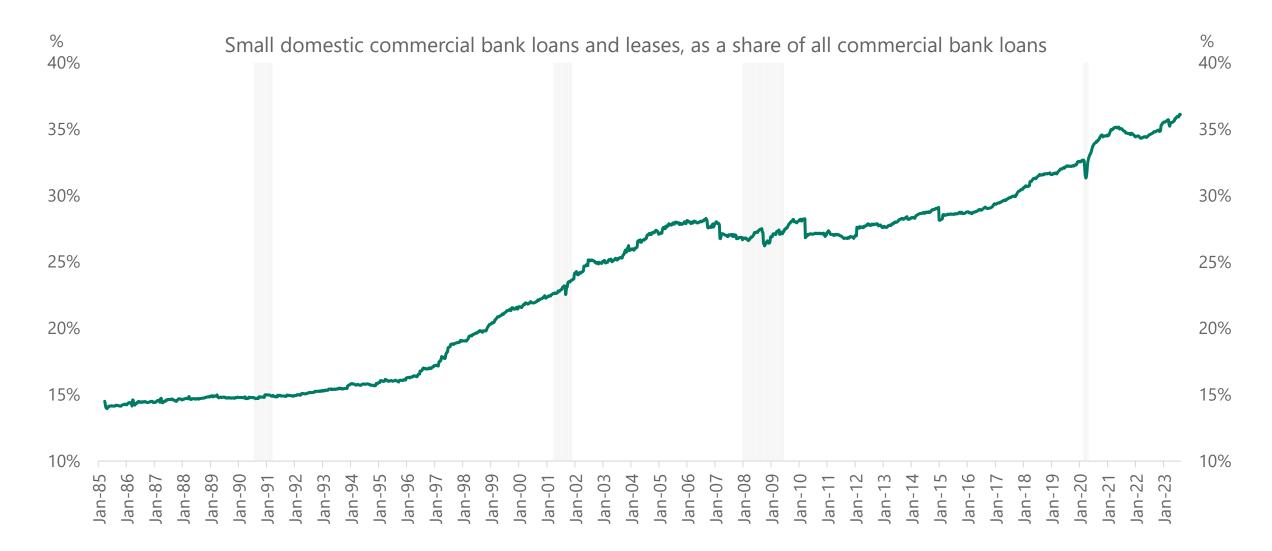


Source: FDIC, Apollo Chief Economist.

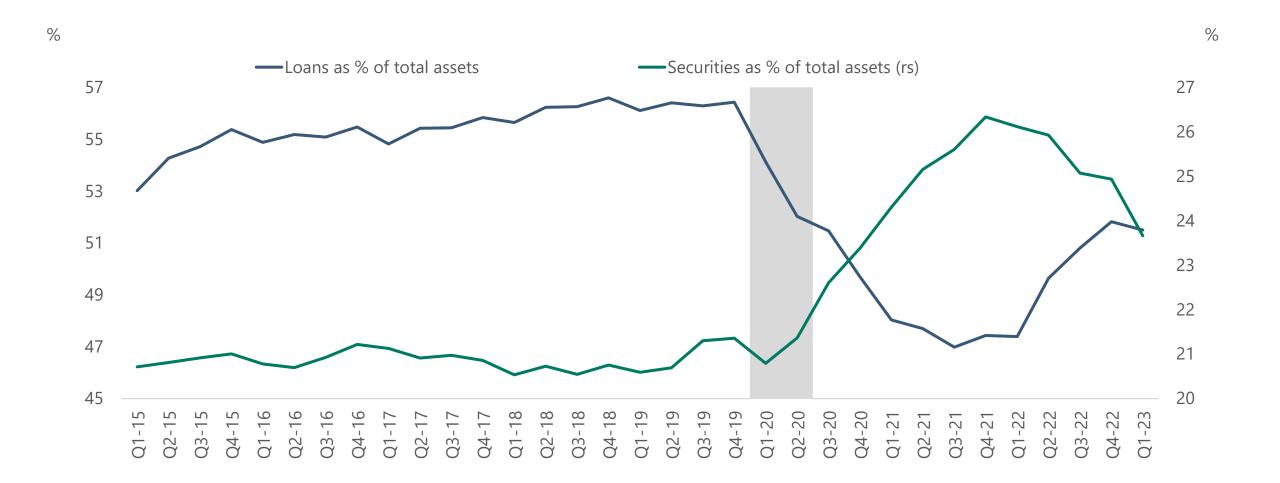
Small bank assets as a share of total banking sector assets



Share of lending by smaller banks

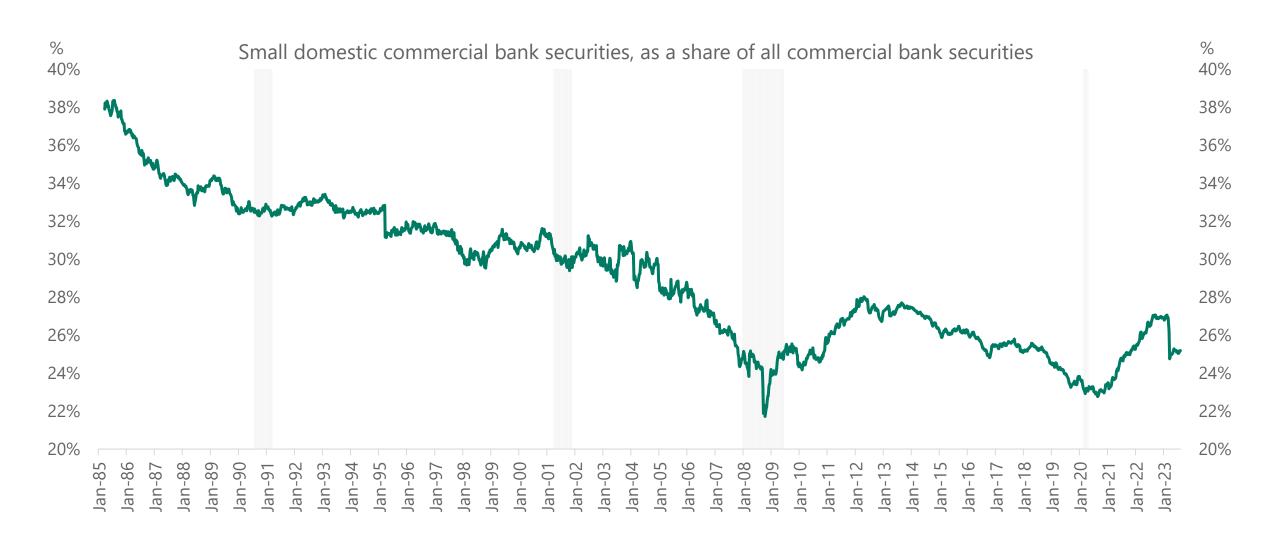


During the pandemic, banks shifted from lending to holding securities, which made them more vulnerable to Fed hikes

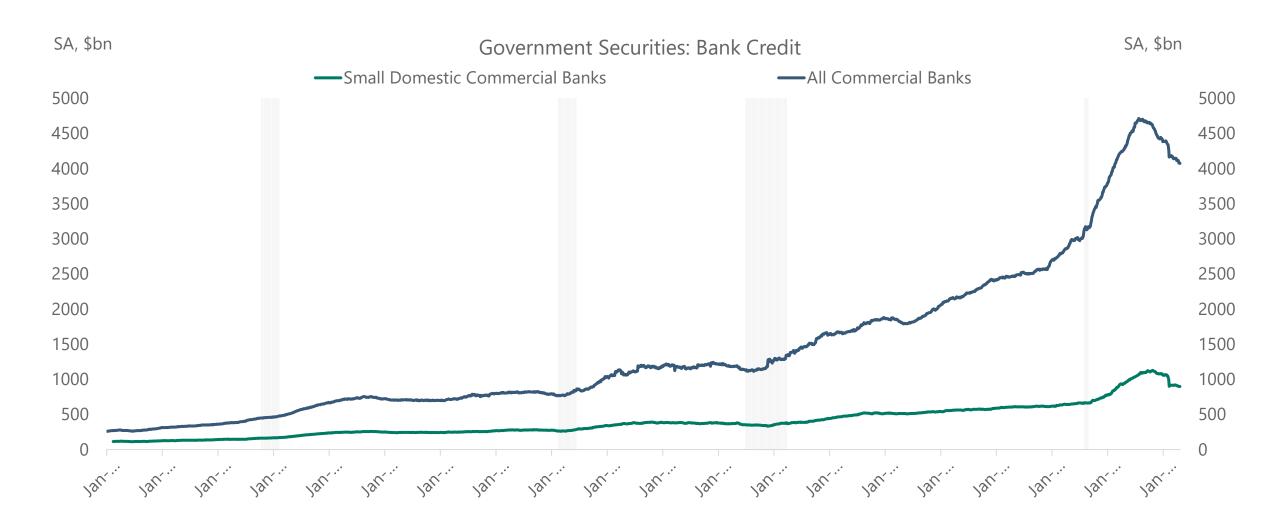


Source: FDIC, Bloomberg, Apollo Chief Economist

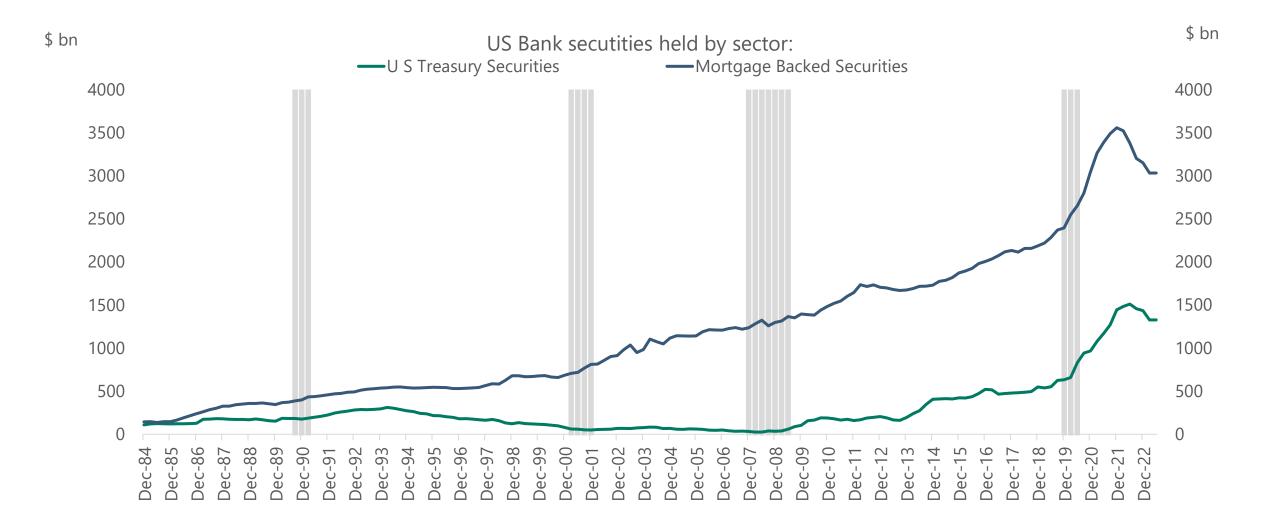
Share of securities in the banking sector held by small banks



Small banks hold about \$900bn in Treasuries

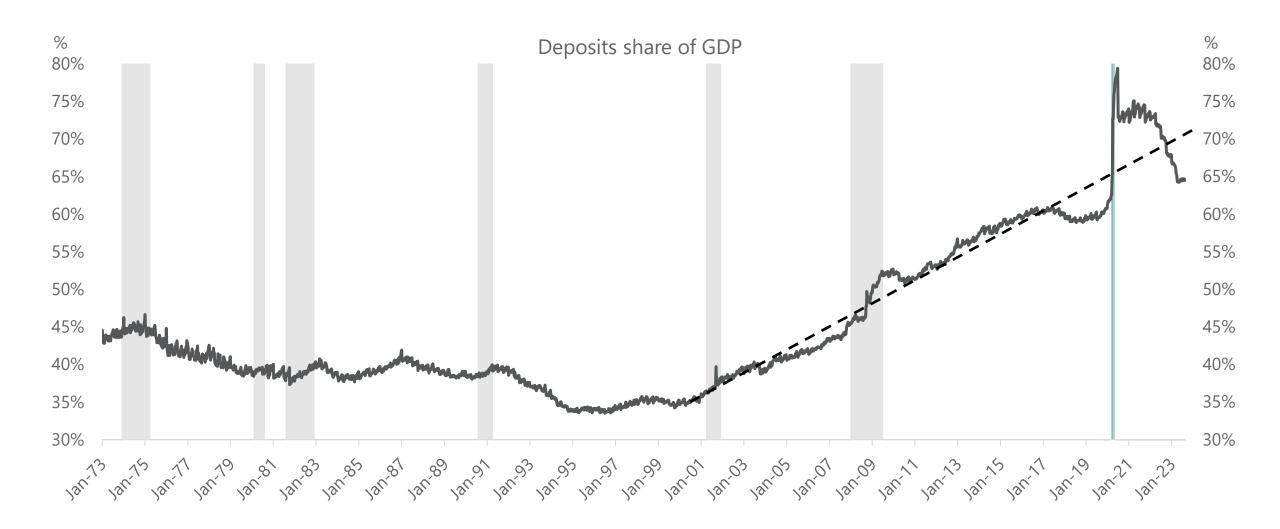


Securities held by FDIC-insured banks



Source: FDIC, Bloomberg, Apollo Chief Economist.

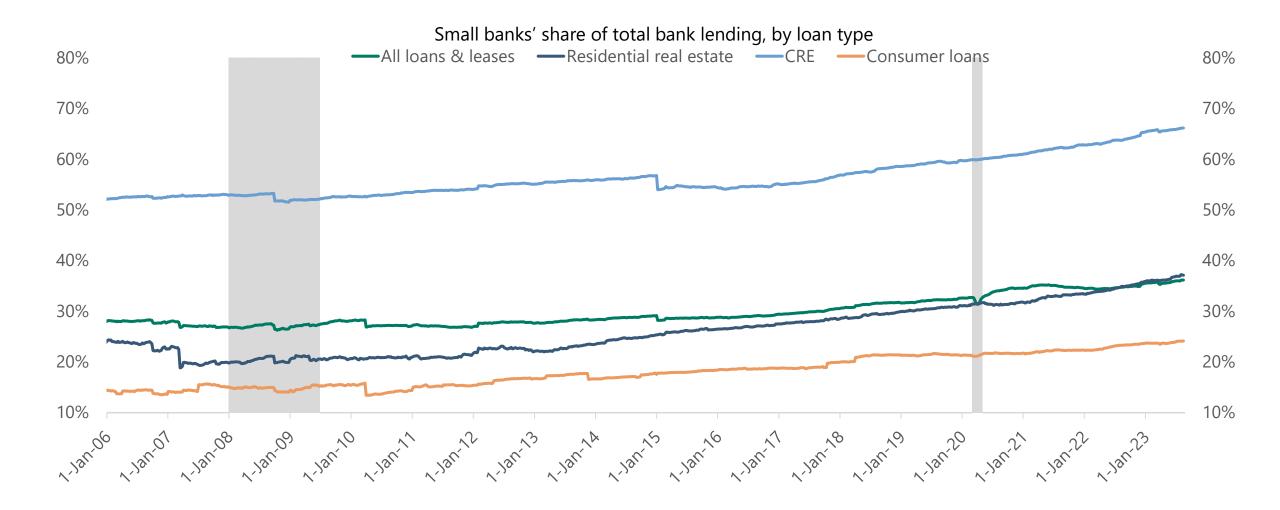
Deposits as a share of GDP



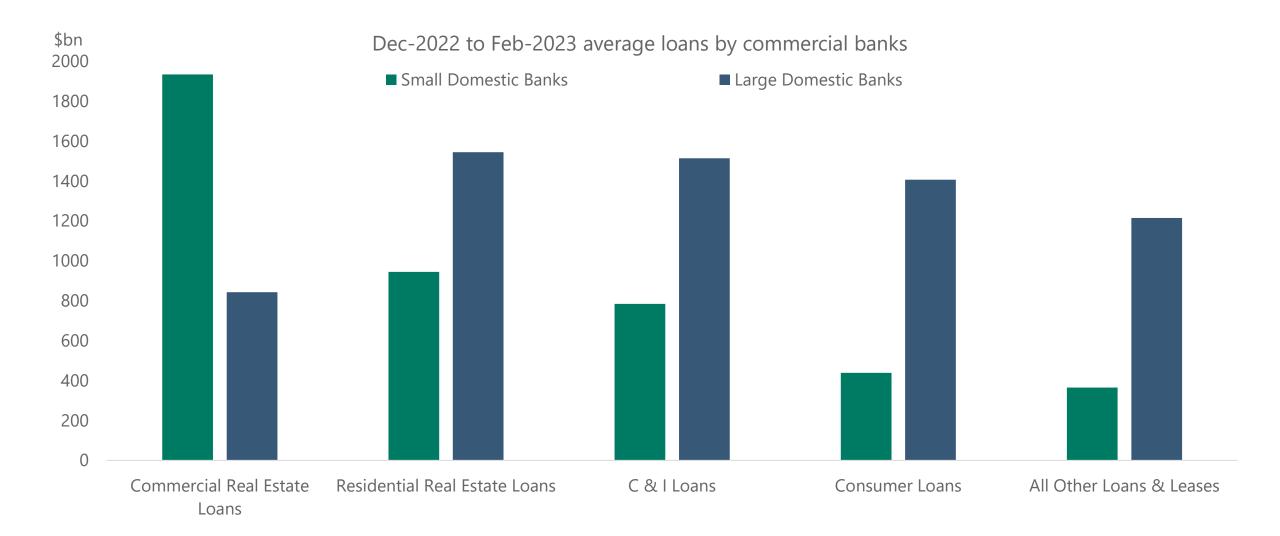
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Regional banks' asset concentration in CRE

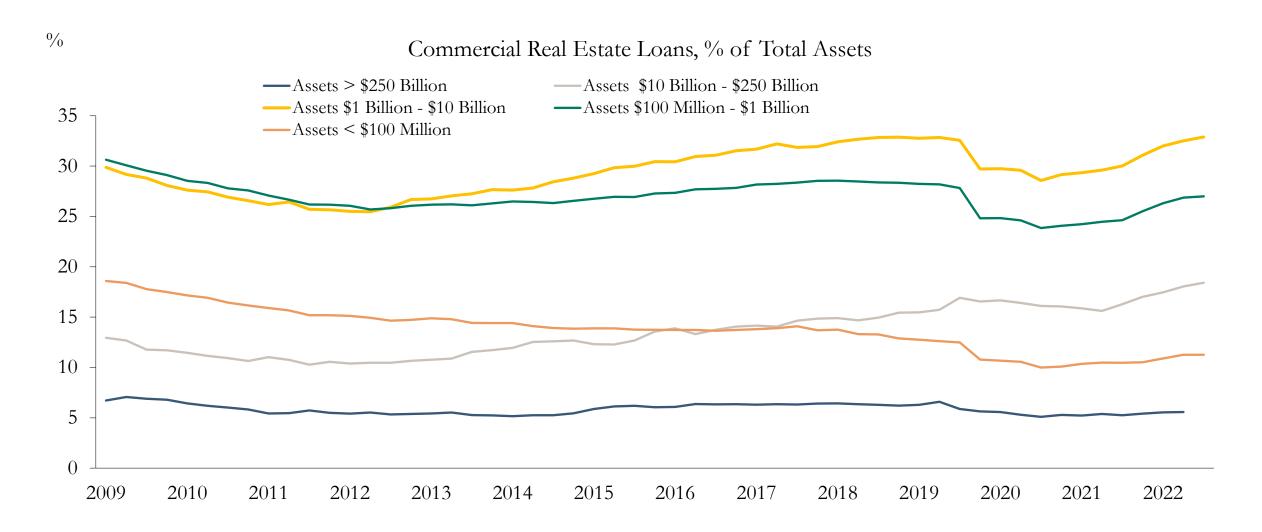
Small banks account for almost 70% of all commercial real estate loans outstanding



High concentration of commercial real estate in small banks



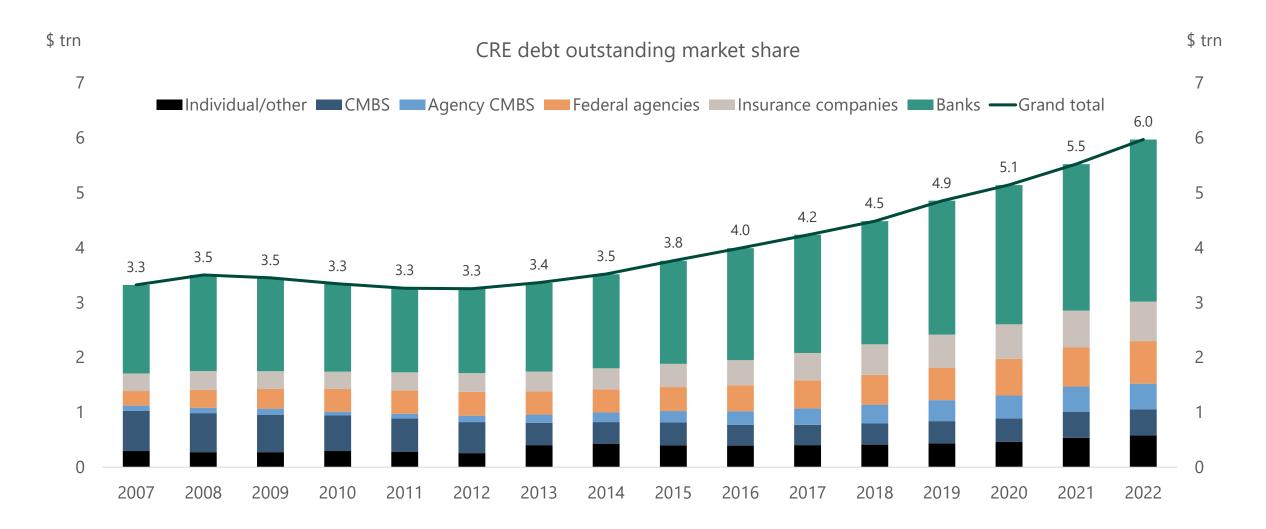
Banks with total assets between \$100mn and \$10bn are more exposed to CRE loans



Source: FDIC, Apollo Chief Economist.

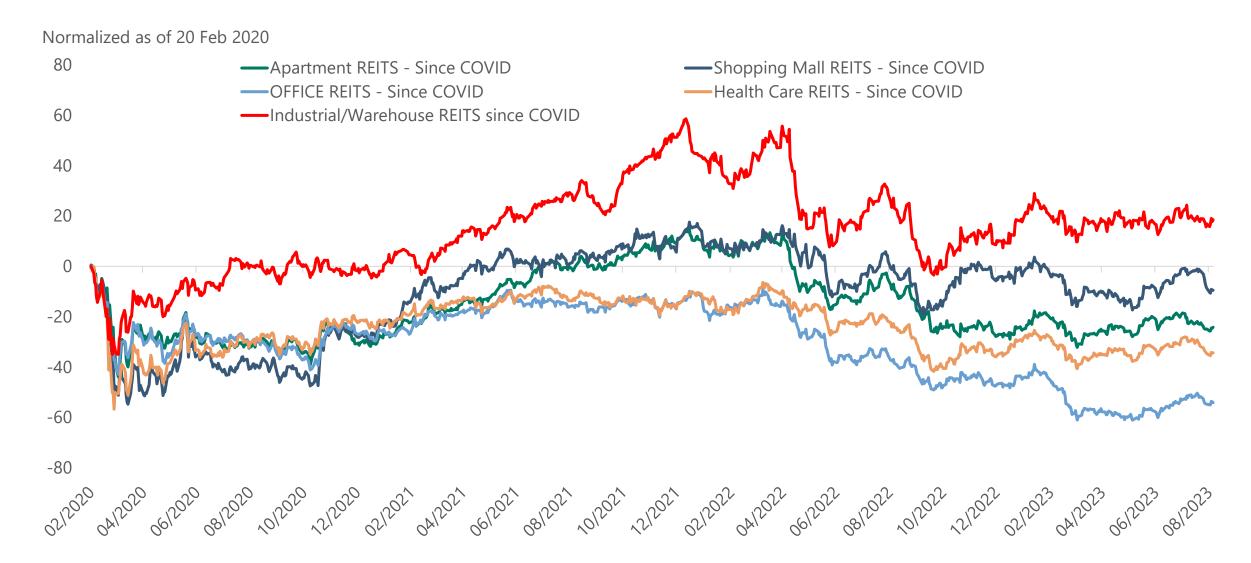
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US banks account for the bulk of CRE lending



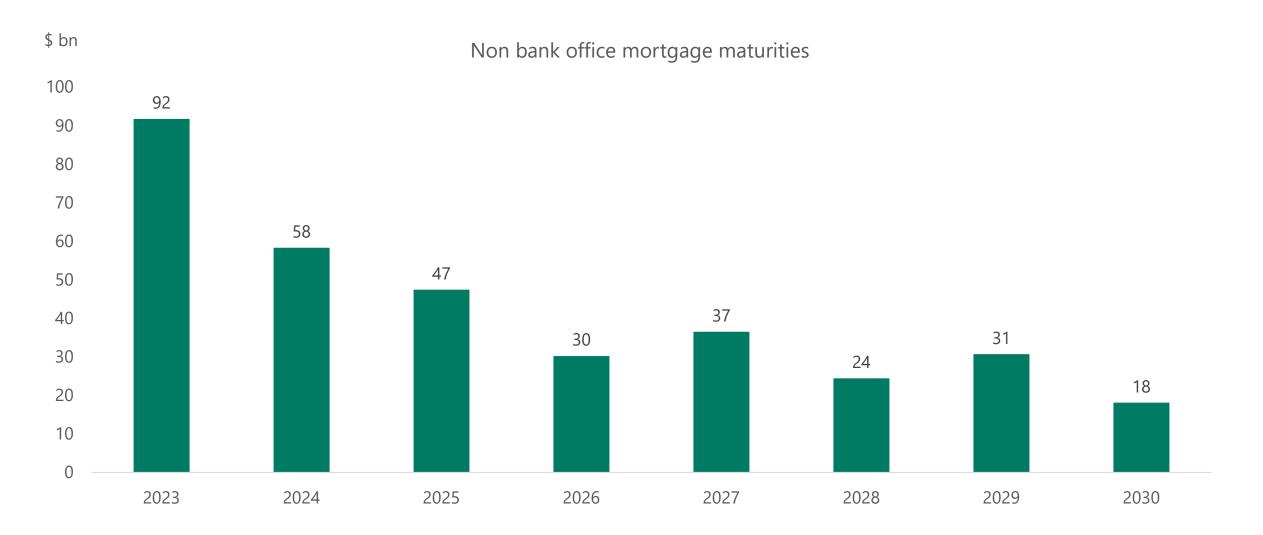
Source: S&P Capital IQ, Apollo Chief Economist

Where are the problems in CRE?



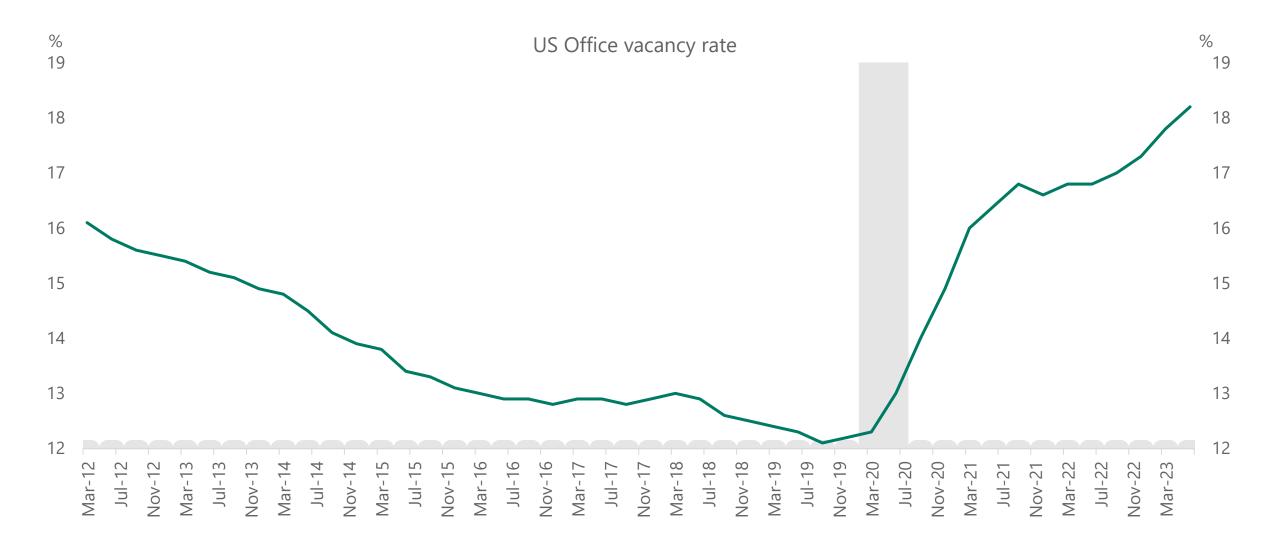
Source: Bloomberg, Apollo Chief Economist

Nearly \$92 bn of nonbank office debt is set to mature this year



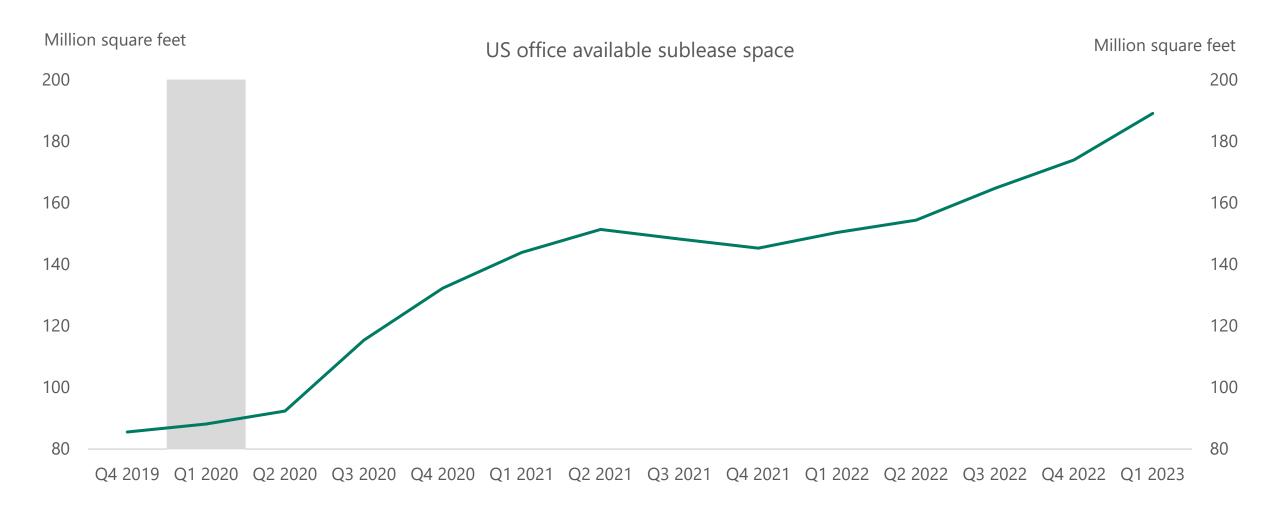
Source: MBA, Bloomberg, Apollo Chief Economist 90

US Office vacancy rate rising



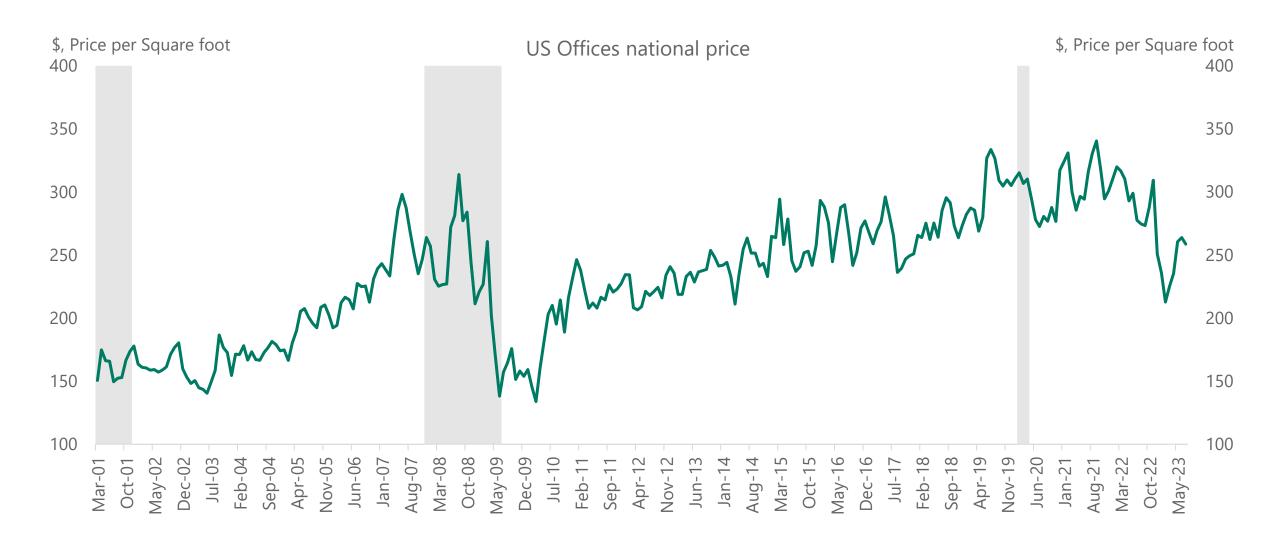
Source: Bloomberg, Apollo Chief Economist

Available US office space rising



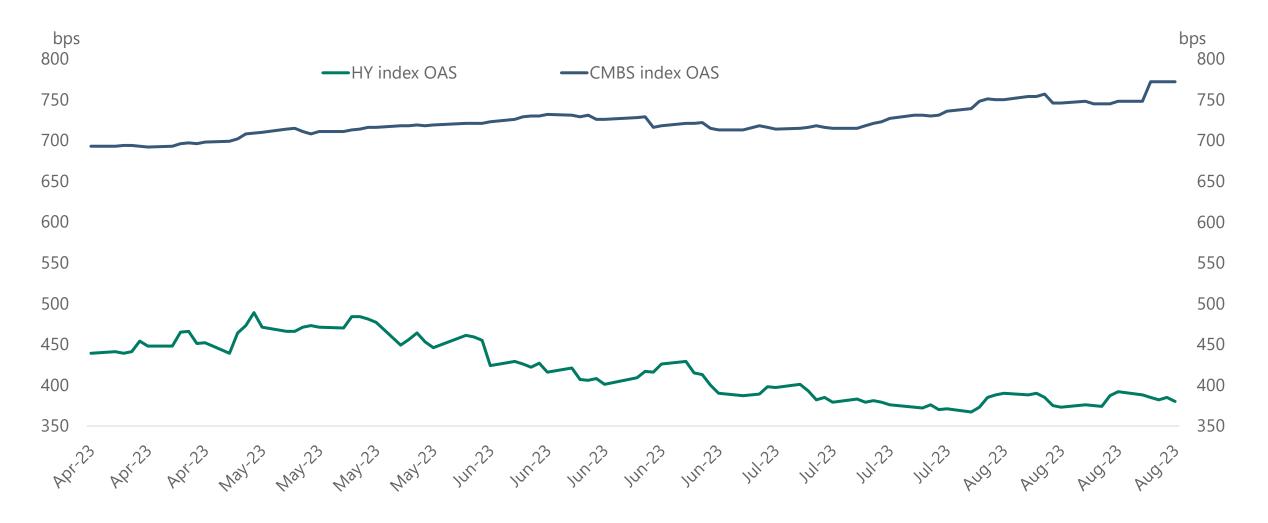
Source: Savills US Markets, Bloomberg, Apollo Chief Economist.

Price per square foot for US offices falling

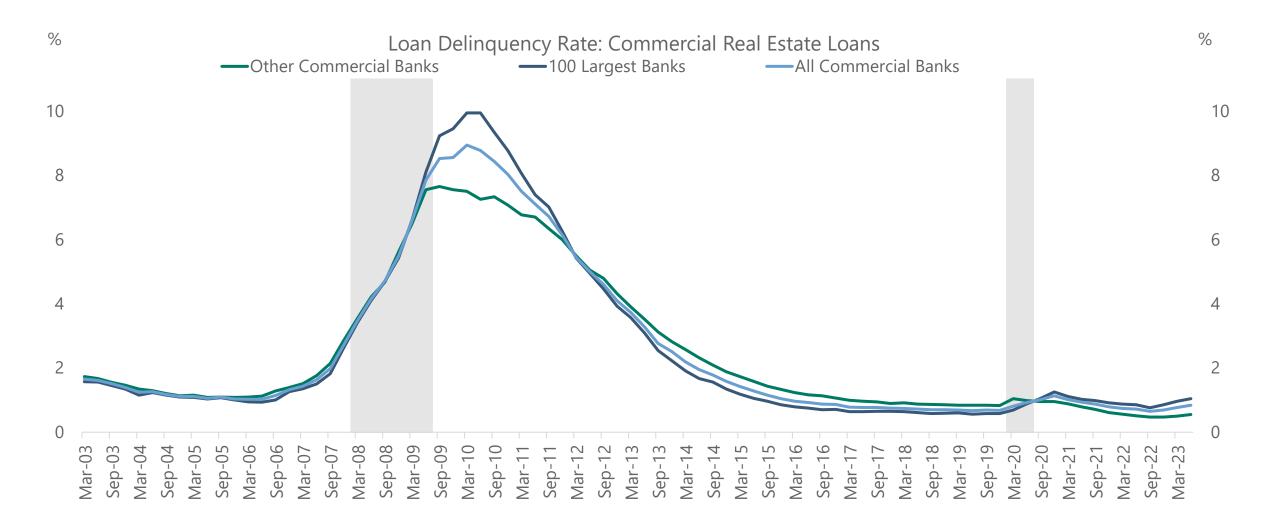


Source: RCA, Bloomberg, Apollo Chief Economist

CMBS spreads compared with HY spreads

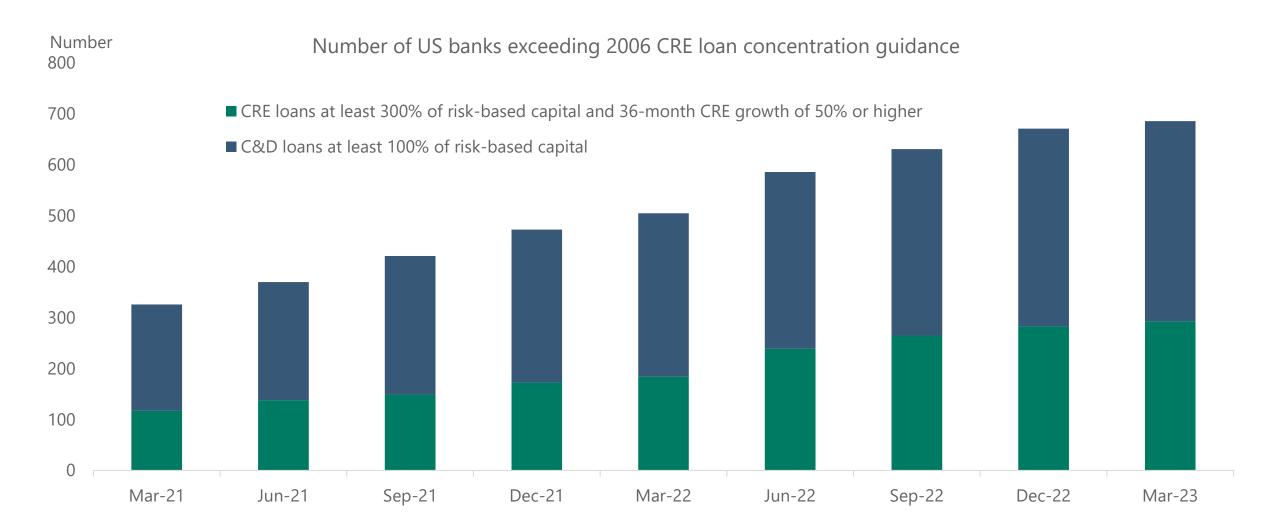


CRE delinquency rate

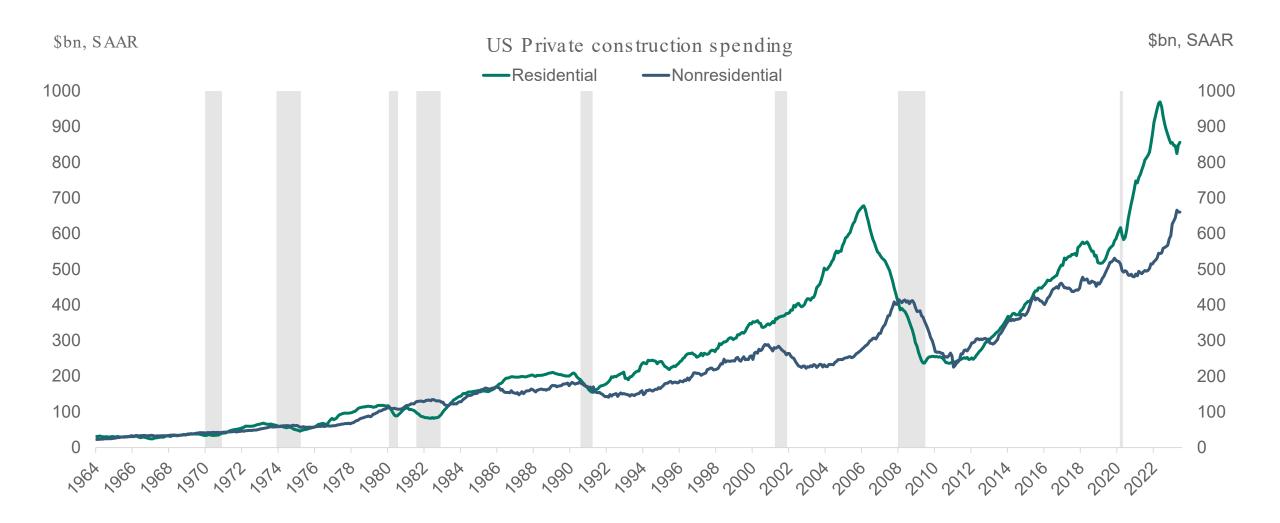


Source: FRB, Haver Analytics, Apollo Chief Economist

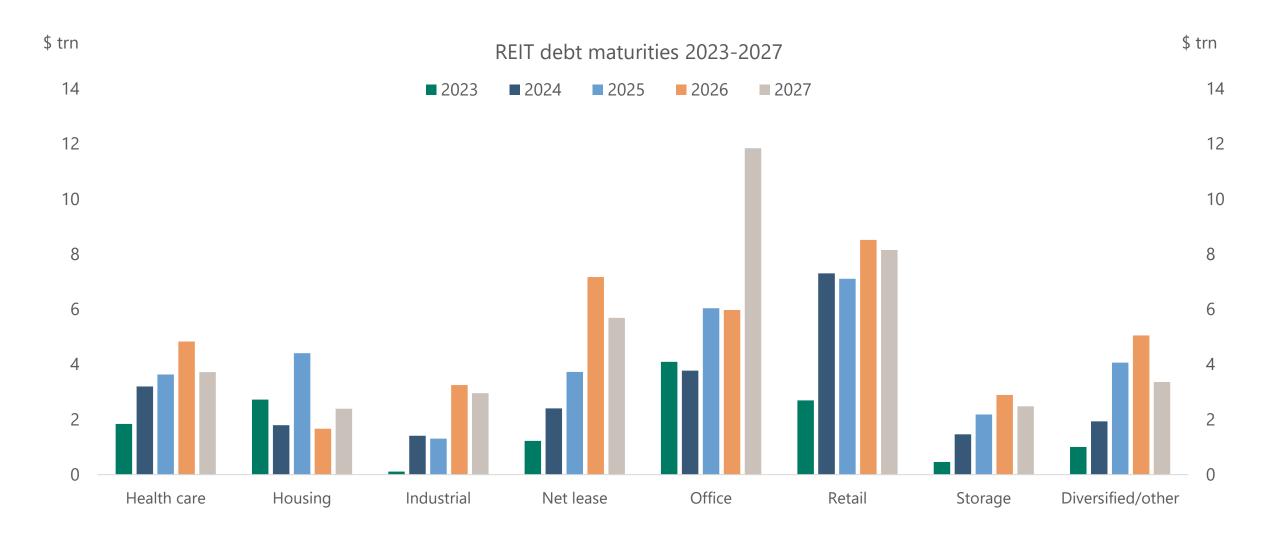
Number of banks with CRE exposure rising



Residential construction spending elevated

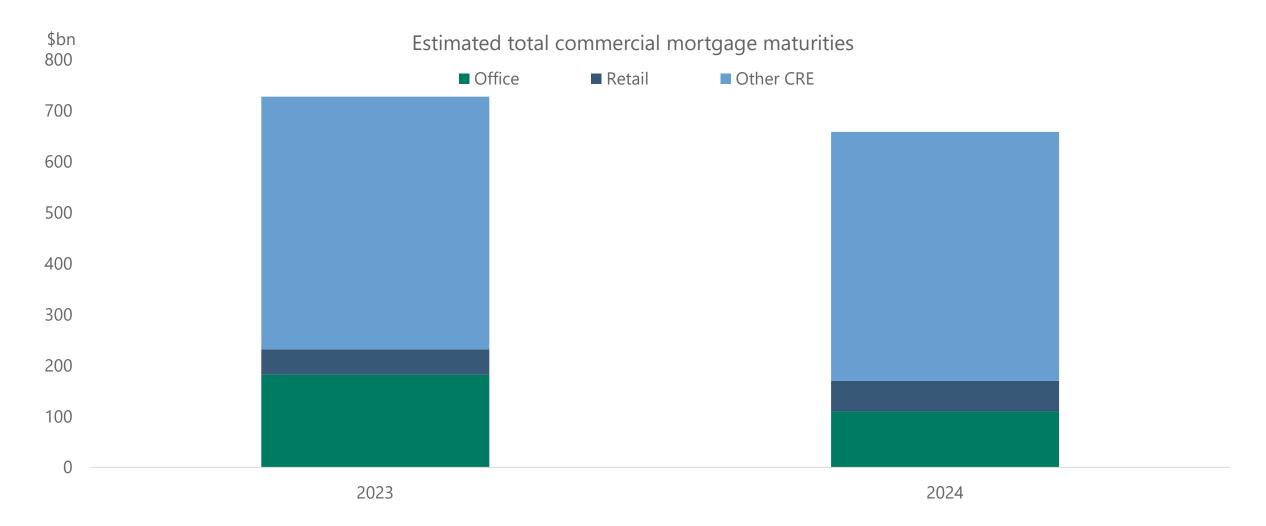


U.S. REITs hold approximately \$14 billion of debt maturing this year

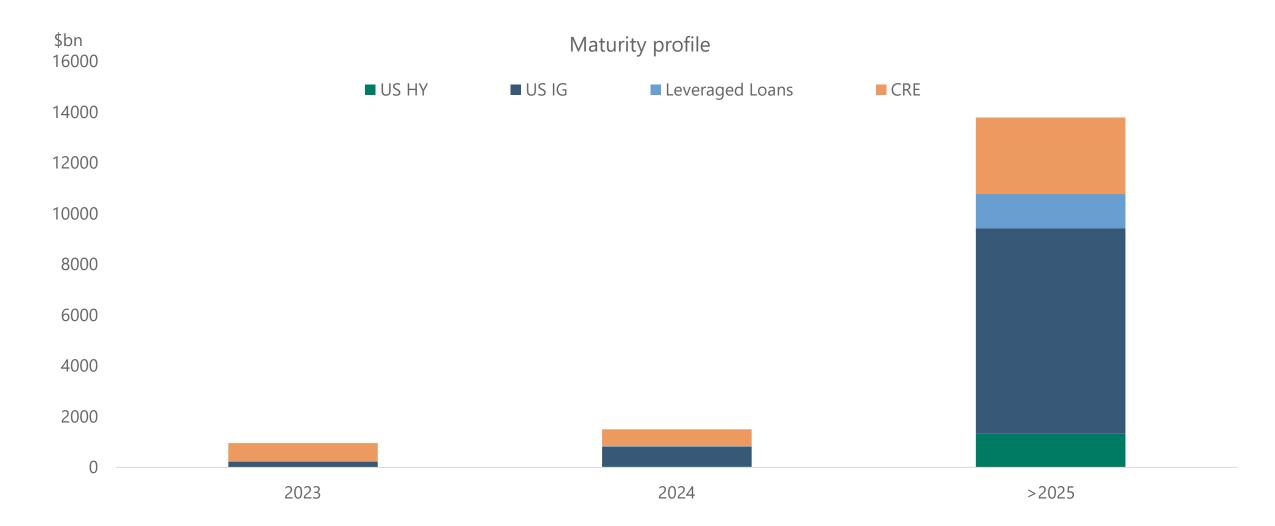


Source: S&P Capital IQ, Apollo Chief Economist

CRE maturity profile



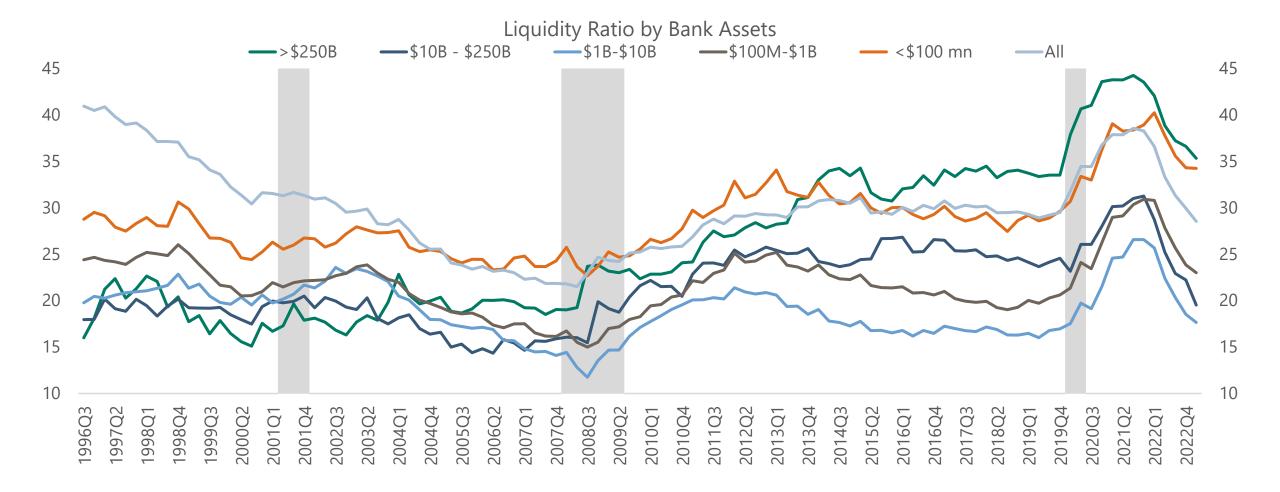
Maturity profile for US fixed income



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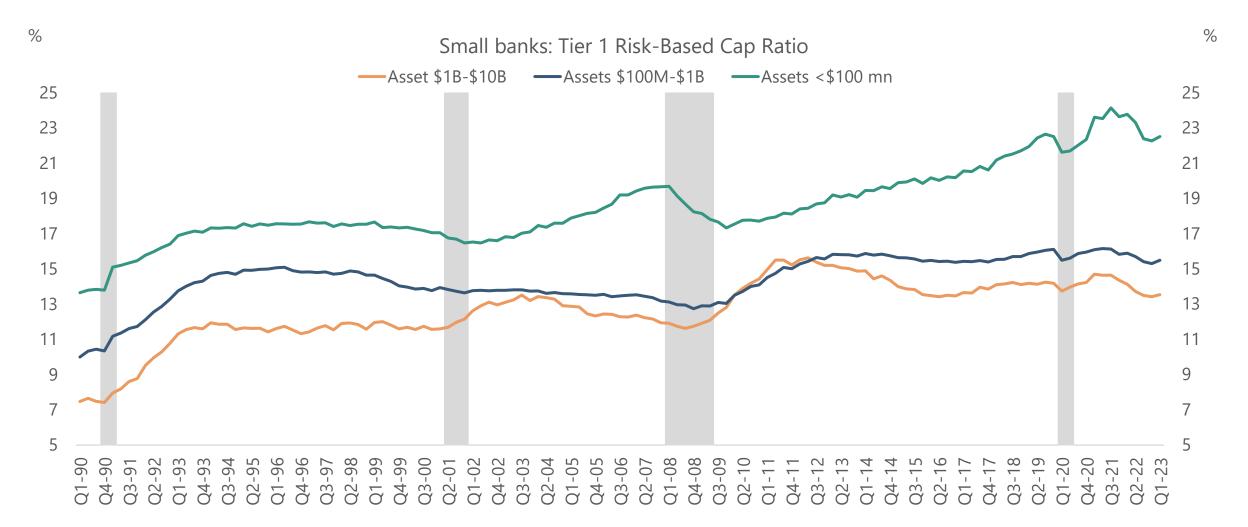
Measures of banking sector liquidity and capital ratios

Liquidity ratio, by bank assets: Banks from \$1bn to \$10bn have the least liquidity

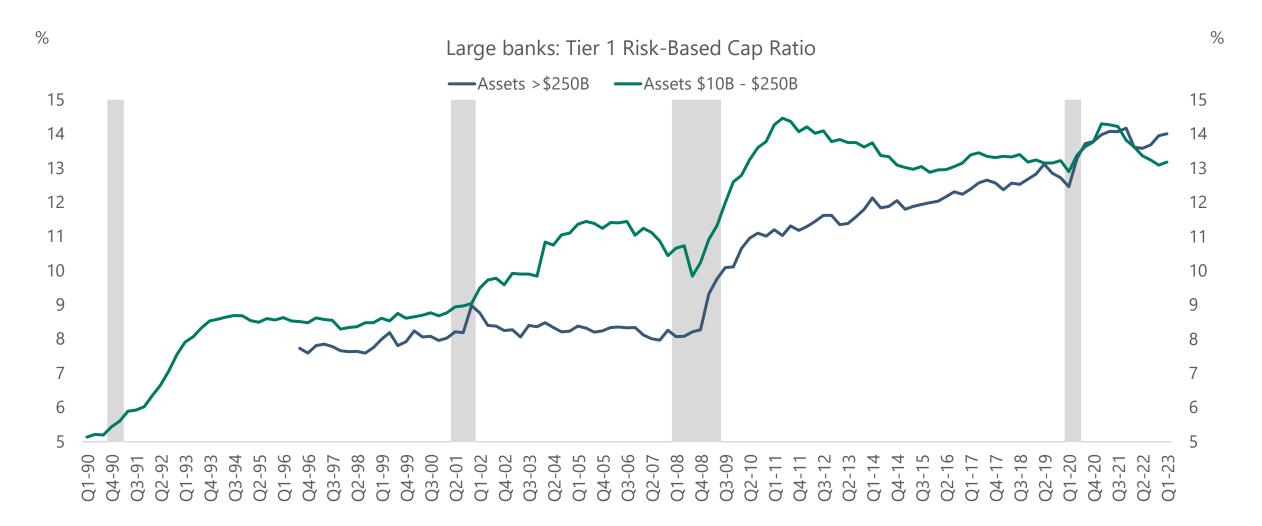


Source: FDIC, Bloomberg, Apollo Chief Economist. 102

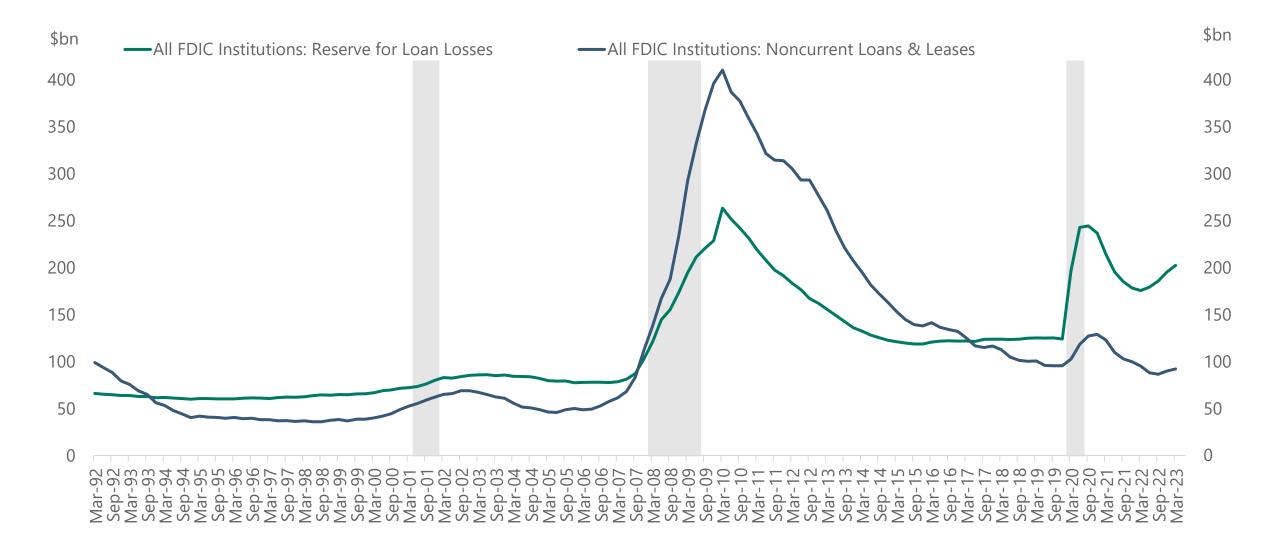
Tier-1 risk-based capital ratio for banks, by size



Tier 1 risk-based capital ratio for larger banks

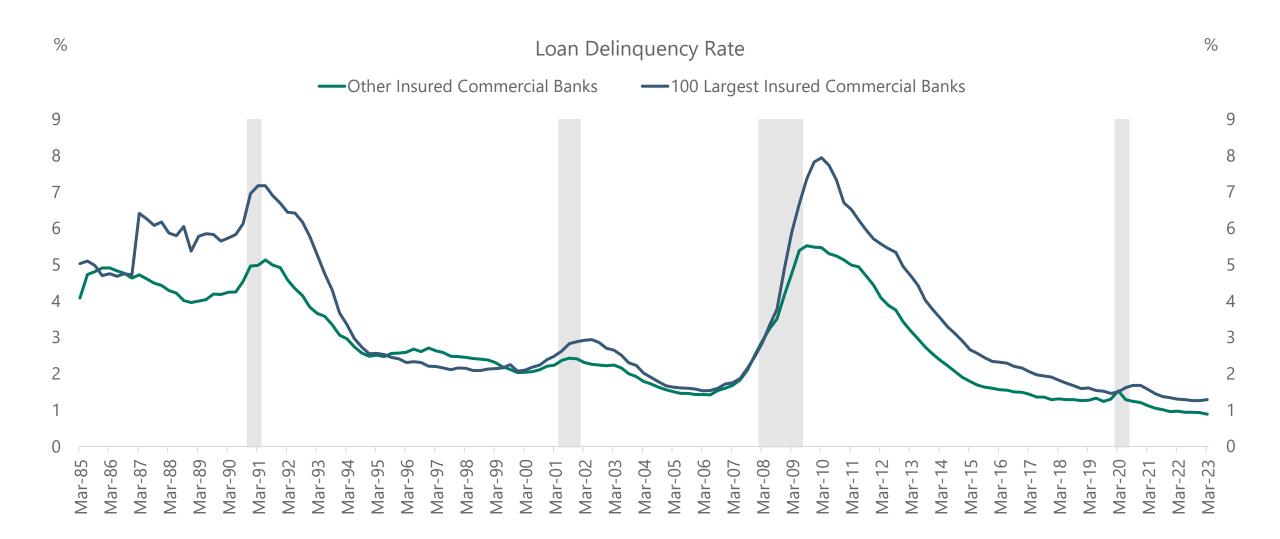


Reserves for loan losses

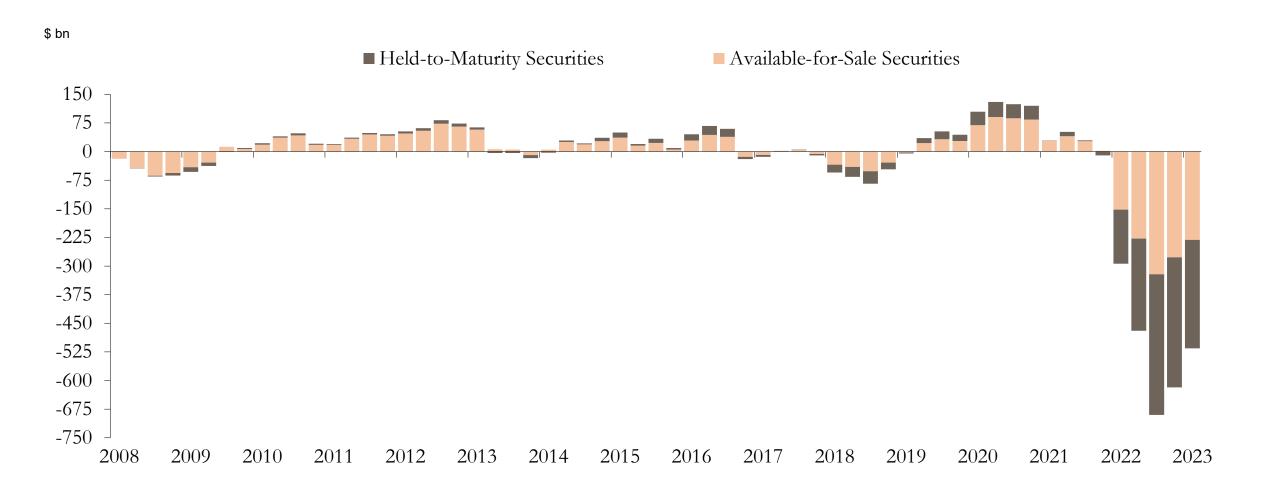


Source: FDIC, Haver Analytics, Apollo Chief Economist.

Loan delinquency rates for large and small banks



Unrealized Gains (Losses) on investment securities for banks, as of 2023Q1

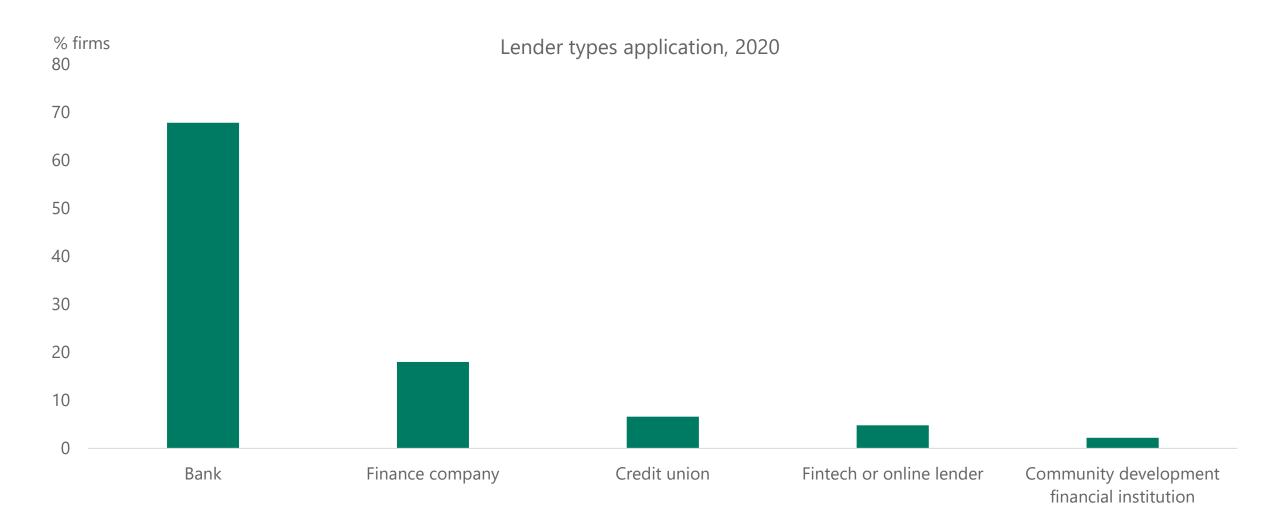


Source: FDIC, Apollo Chief Economist.

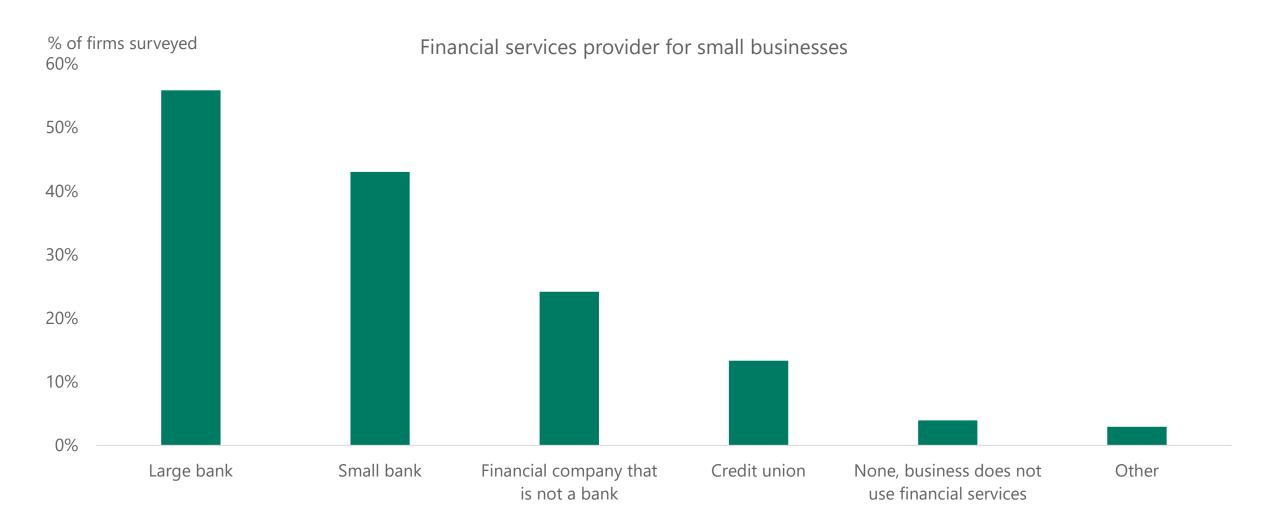
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Sources of financing for small businesses

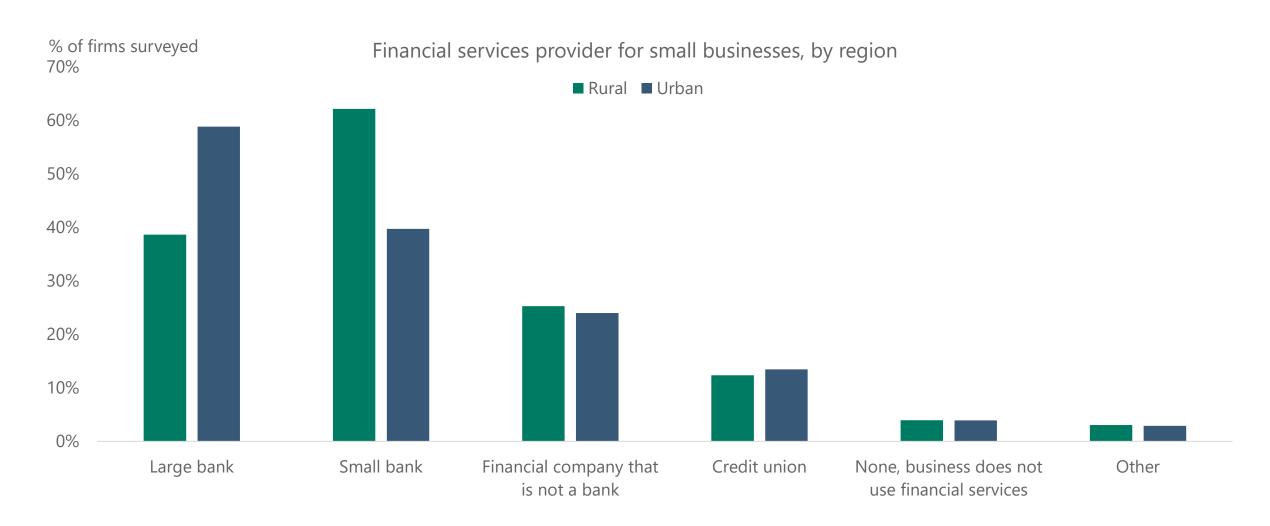
Banks are the most important source of financing for small businesses



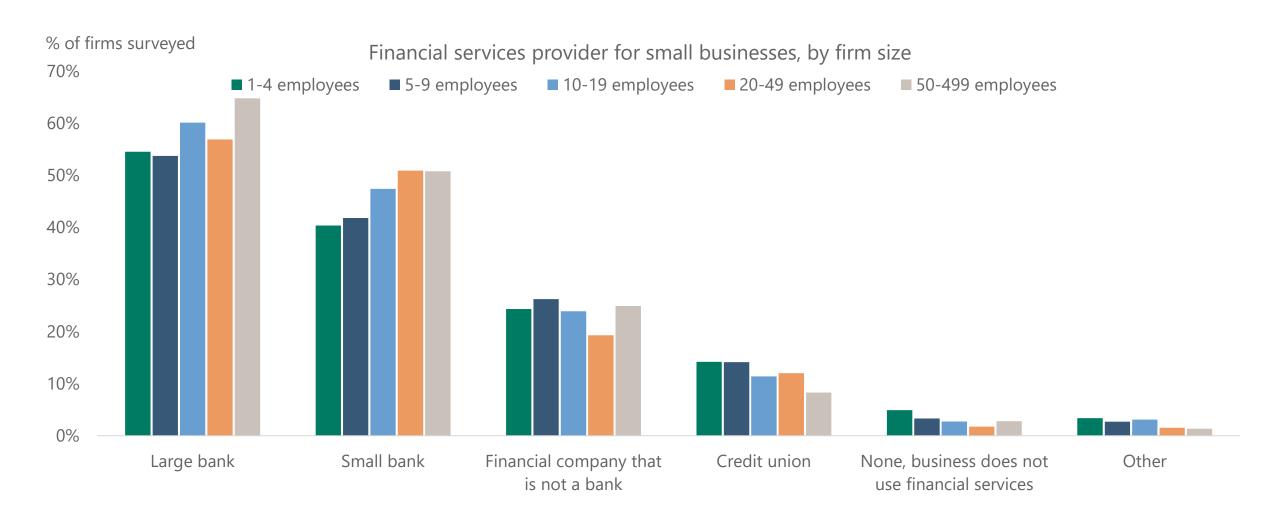
Sources of financing for small businesses



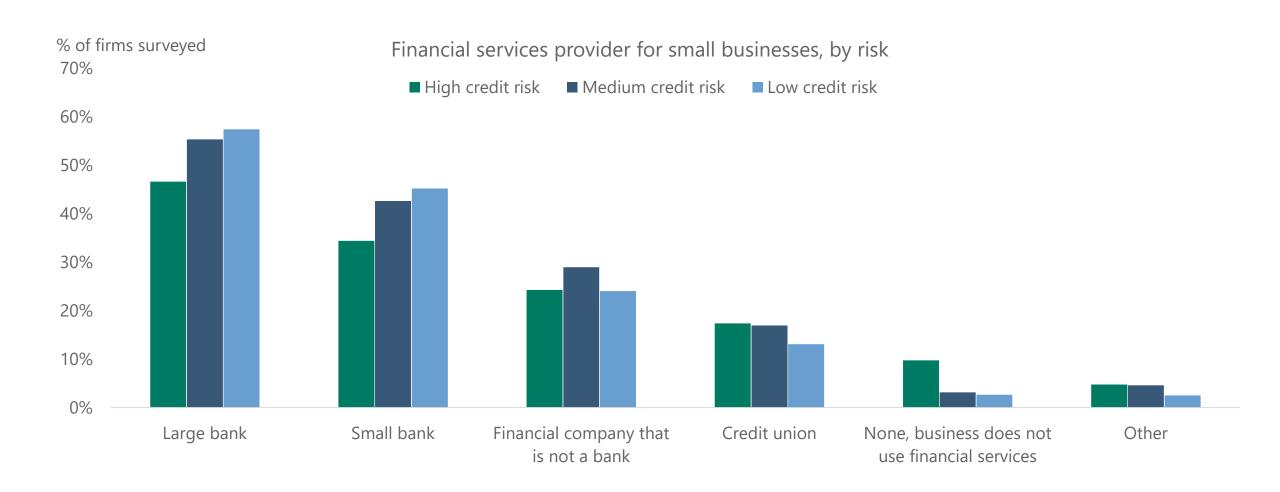
Small banks provide 60% of lending for small businesses in rural areas and 40% in urban areas



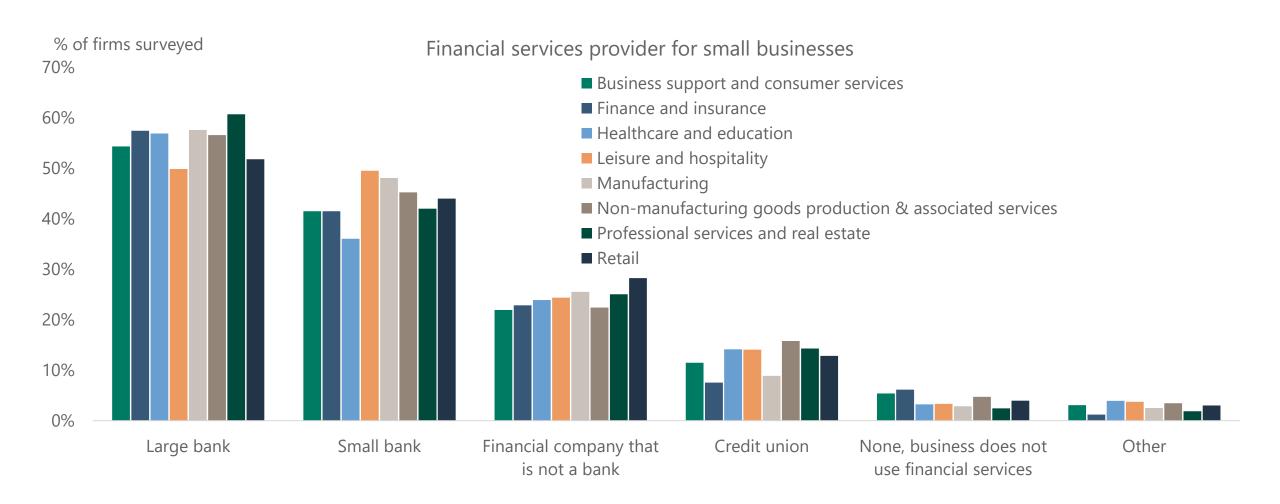
Sources of financing for small businesses, by firm size



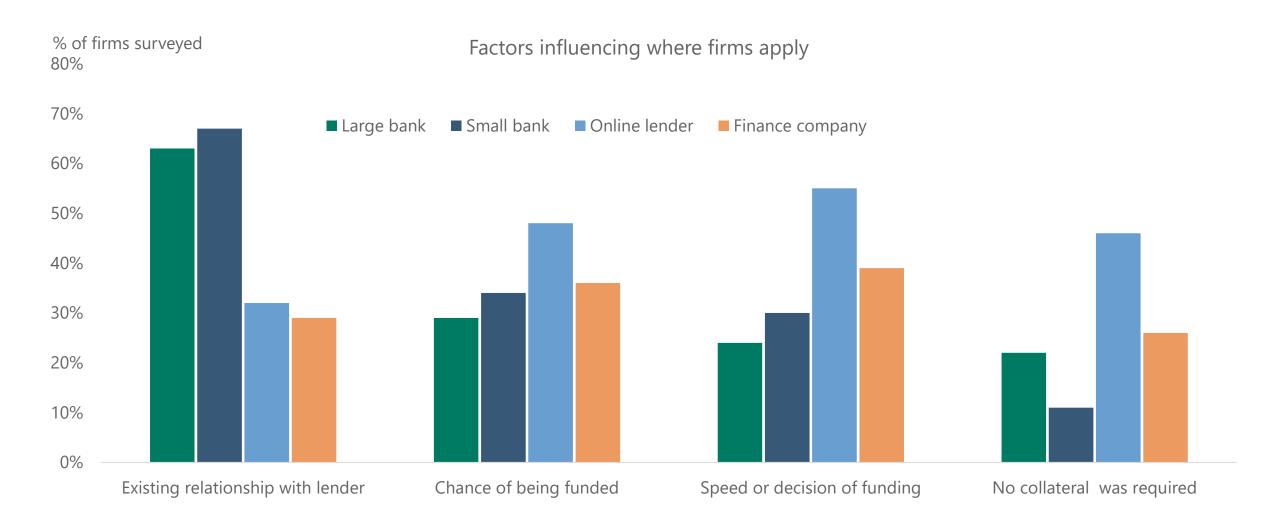
Sources of financing for small businesses, by risk of the firm



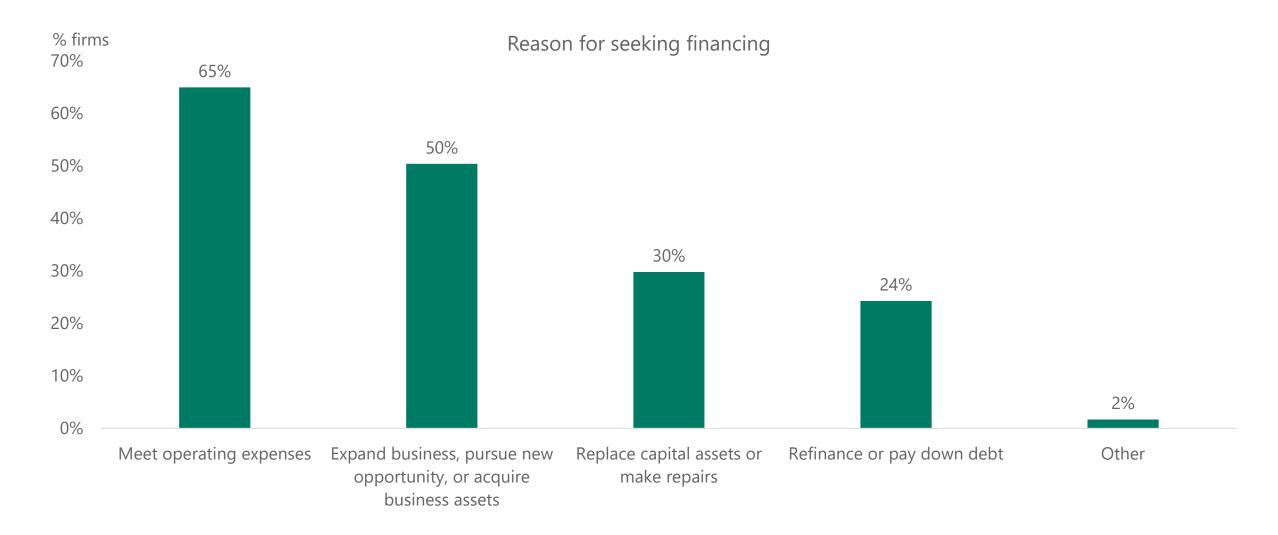
Sources of financing for small businesses, by firm industry



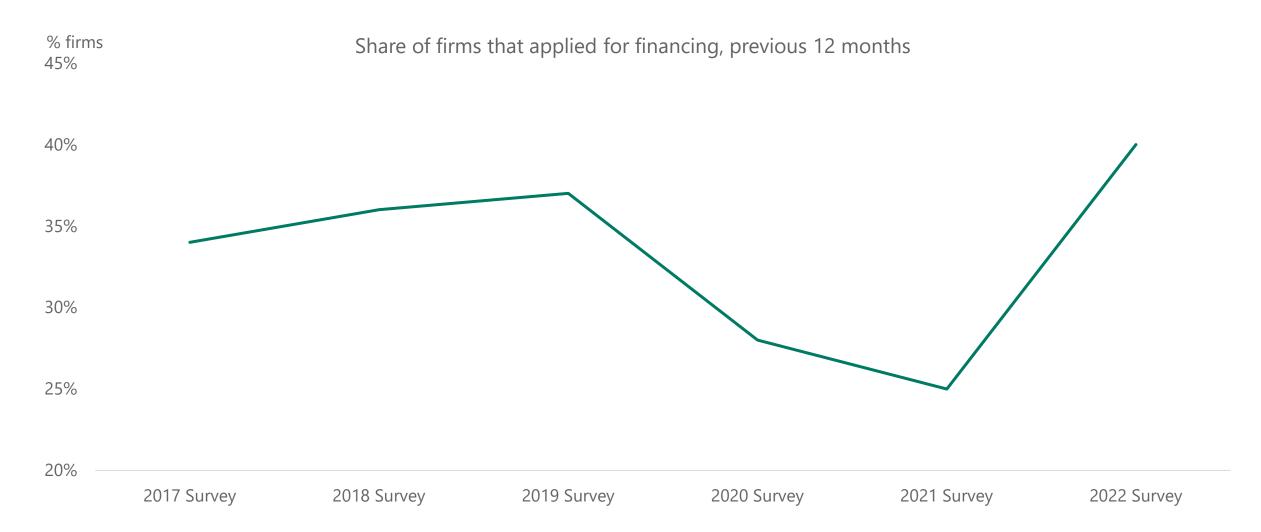
Factors influencing where small businesses apply for a loan. Relationship is important for small bank lending



Purpose of seeking financing for small businesses



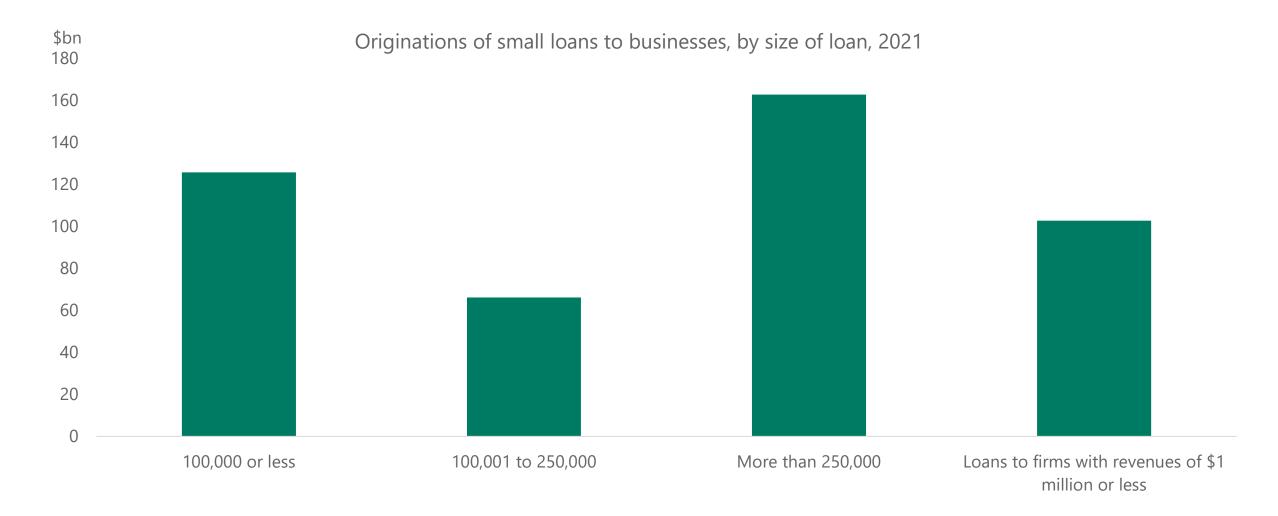
40% of small firms have applied for financing in the past 12 months



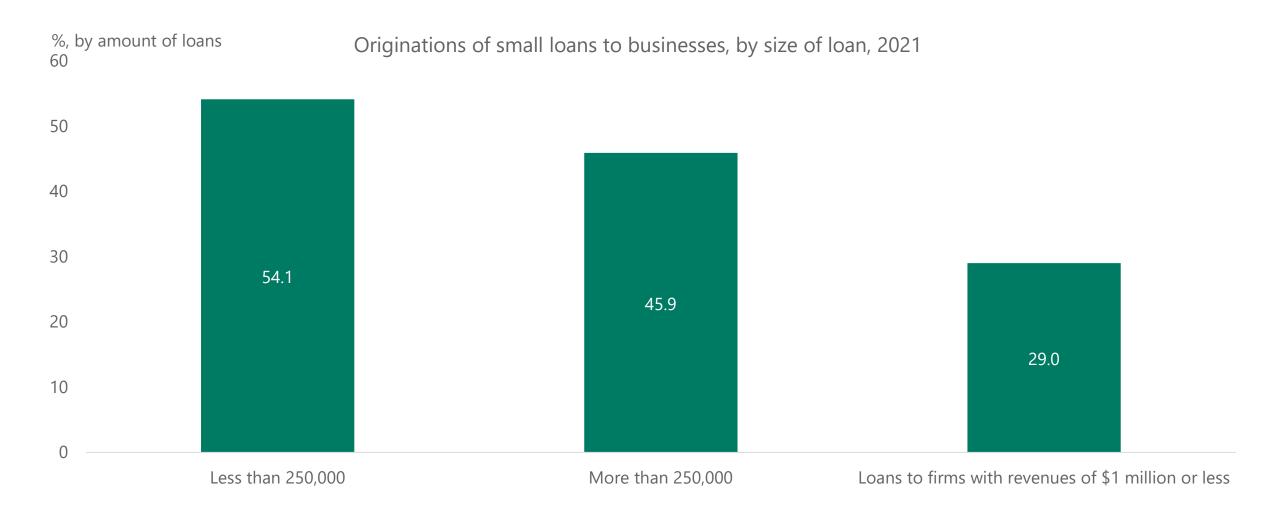
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Small business loans

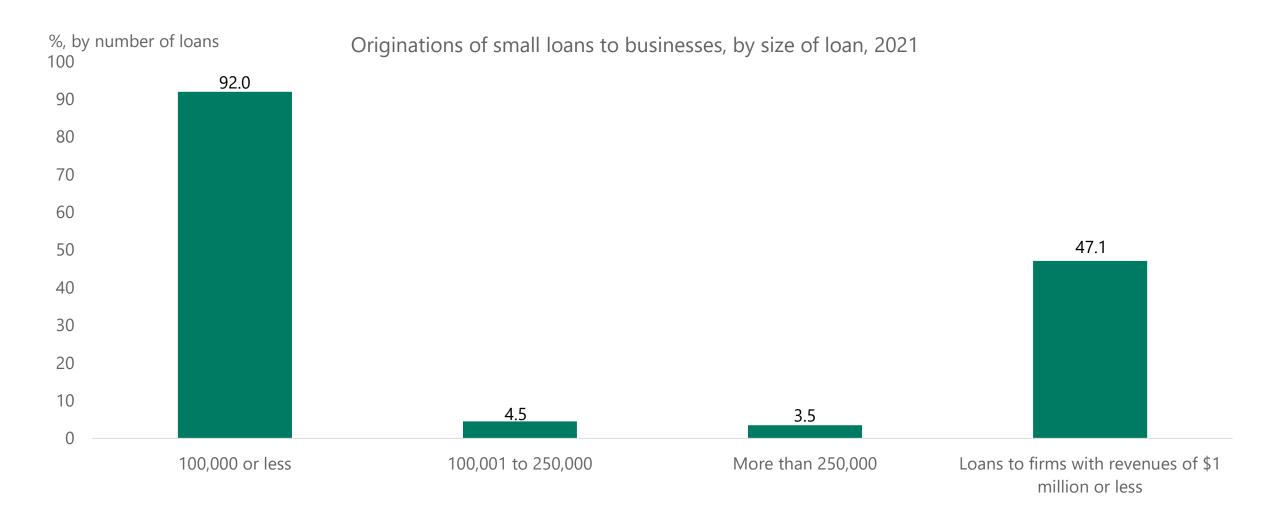
Size of small loans to businesses



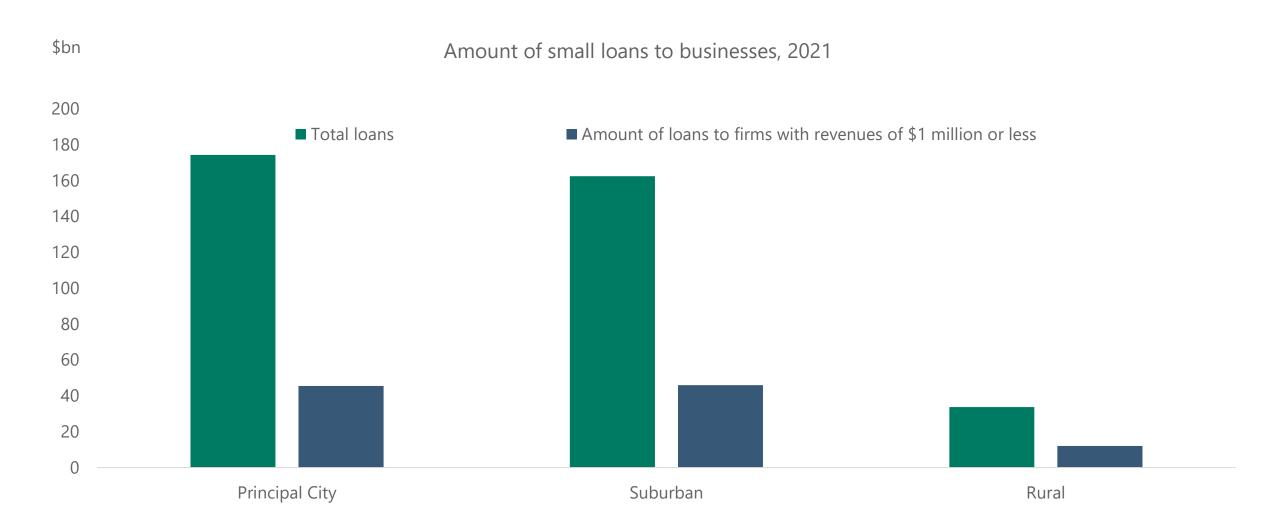
Share of loans to small businesses, by loan size



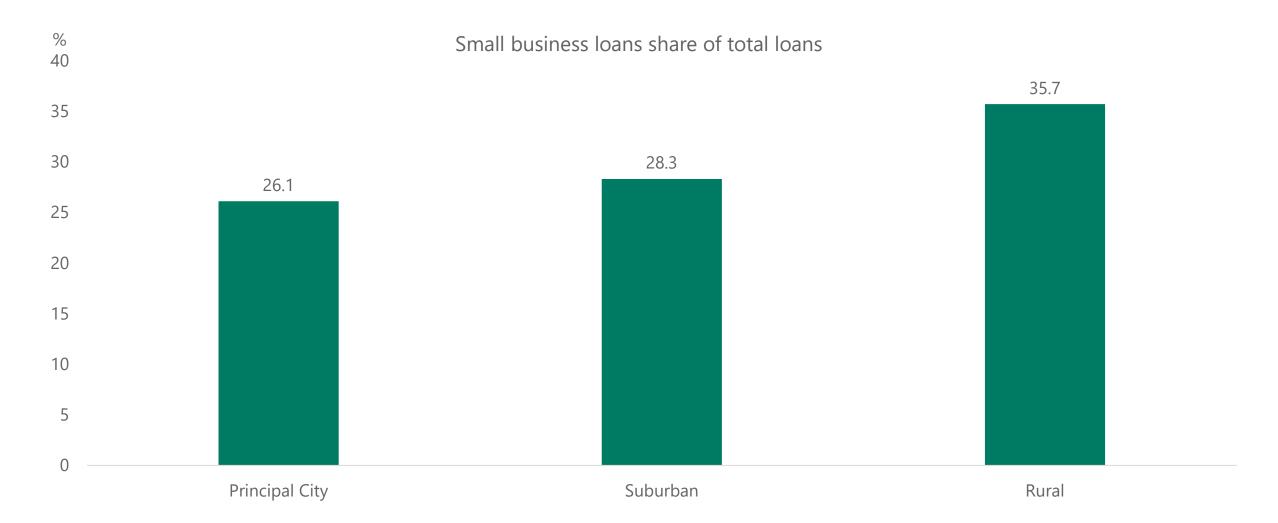
92% of all loans to small businesses in the US are less than \$100,000



Total loans vs loans to small businesses by neighborhood characteristic



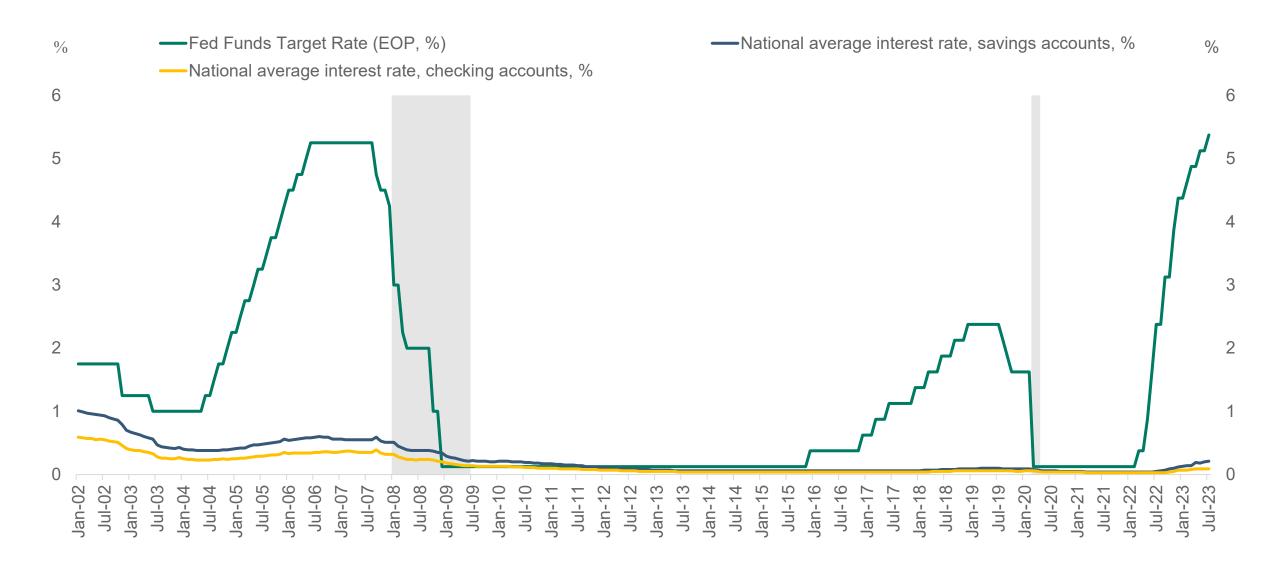
Share of loans to small businesses by neighborhood characteristic



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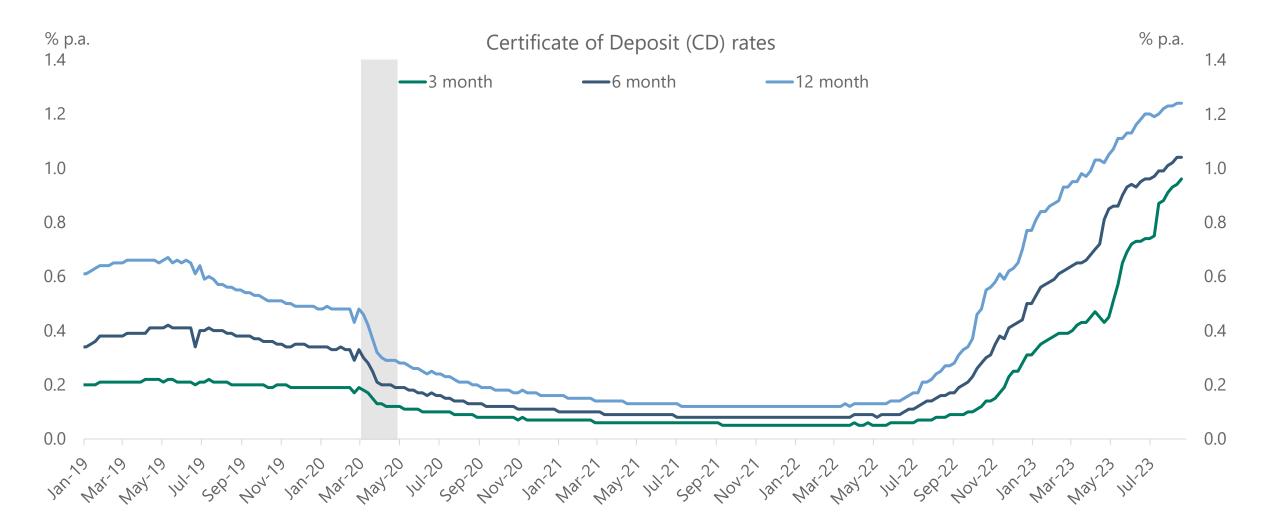
Fed funds rate versus national average interest rate on checking accounts and CDs

Interest rate on checking accounts versus the Fed funds rate



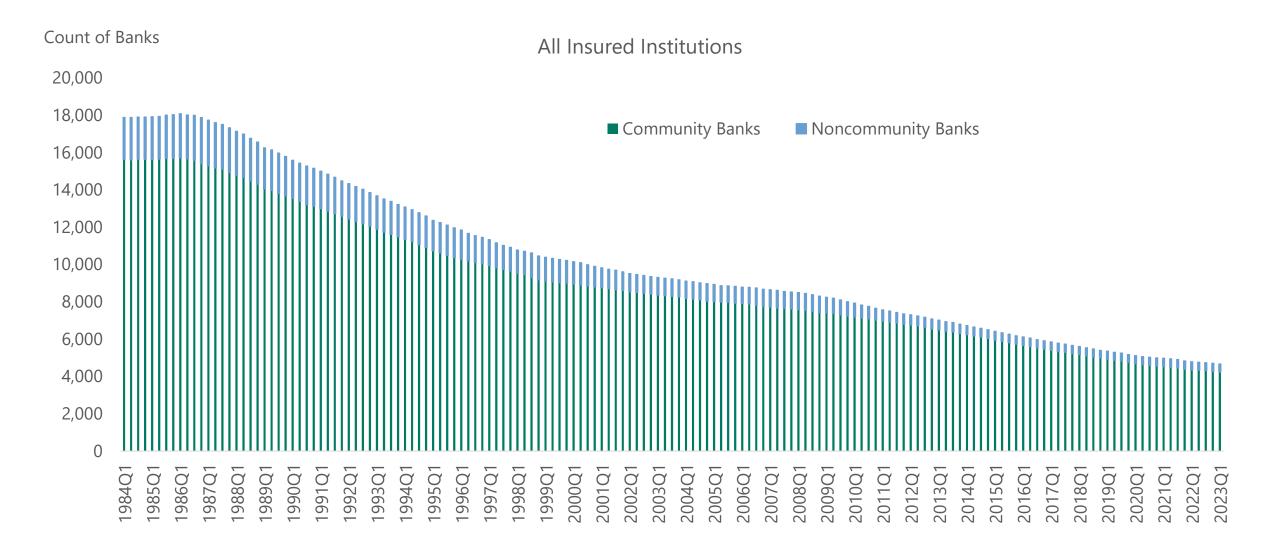
Source: FRB, RateWatch, Haver Analytics, Apollo Chief Economist.

CD rates have slowly increased as the Fed has raised interest rates



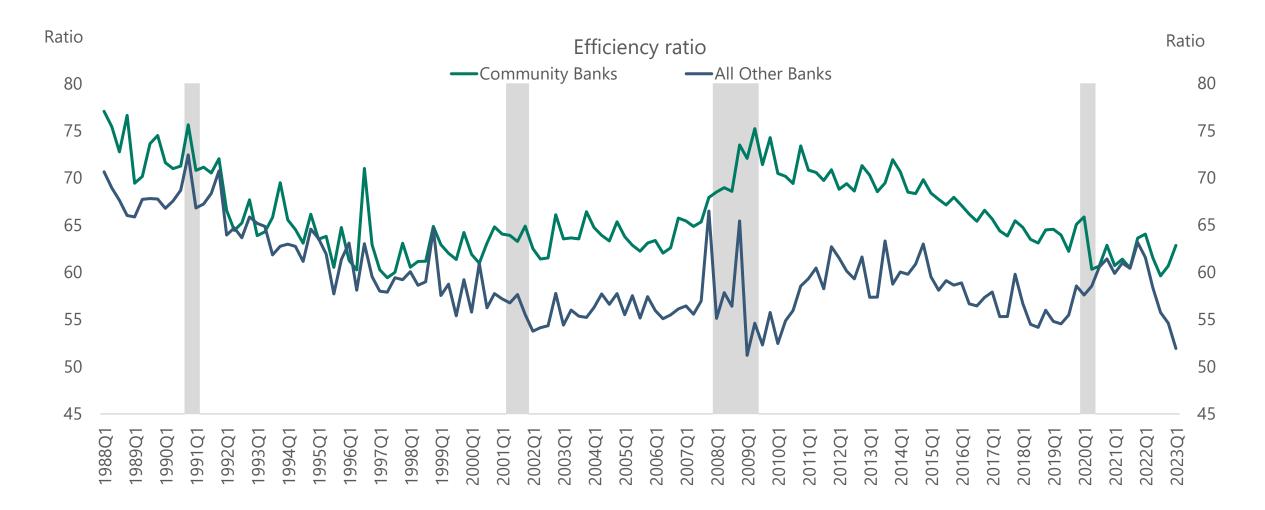
Community banks

90% of all banks in the US are community banks

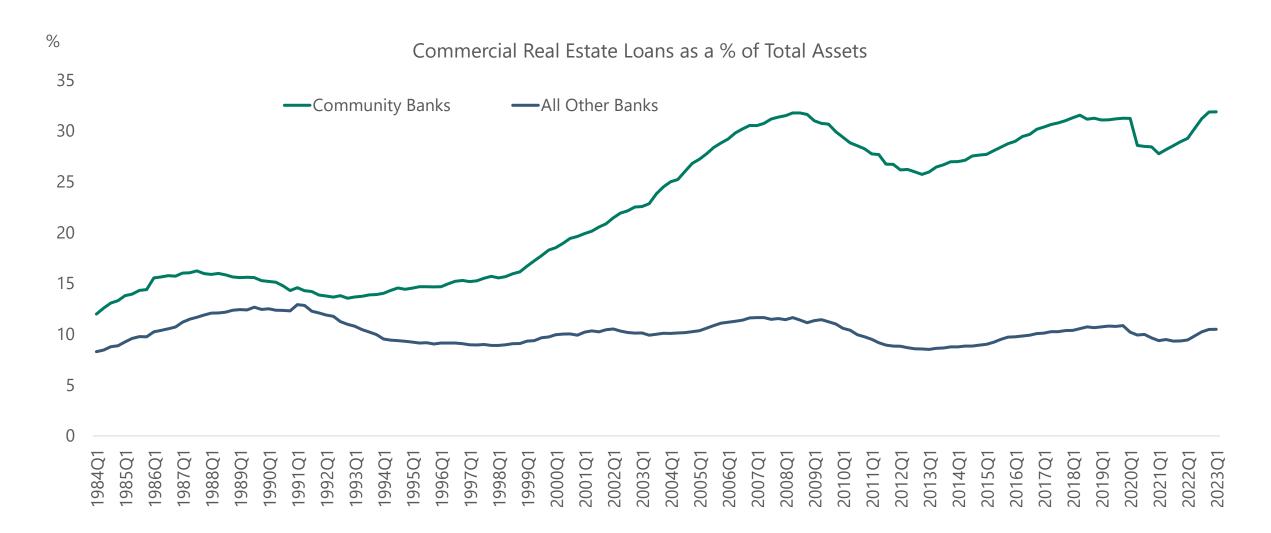


Source: FDIC, Apollo Chief Economist.

The average efficiency ratio for community banks is around 63% compared with 52% for noncommunity banks.

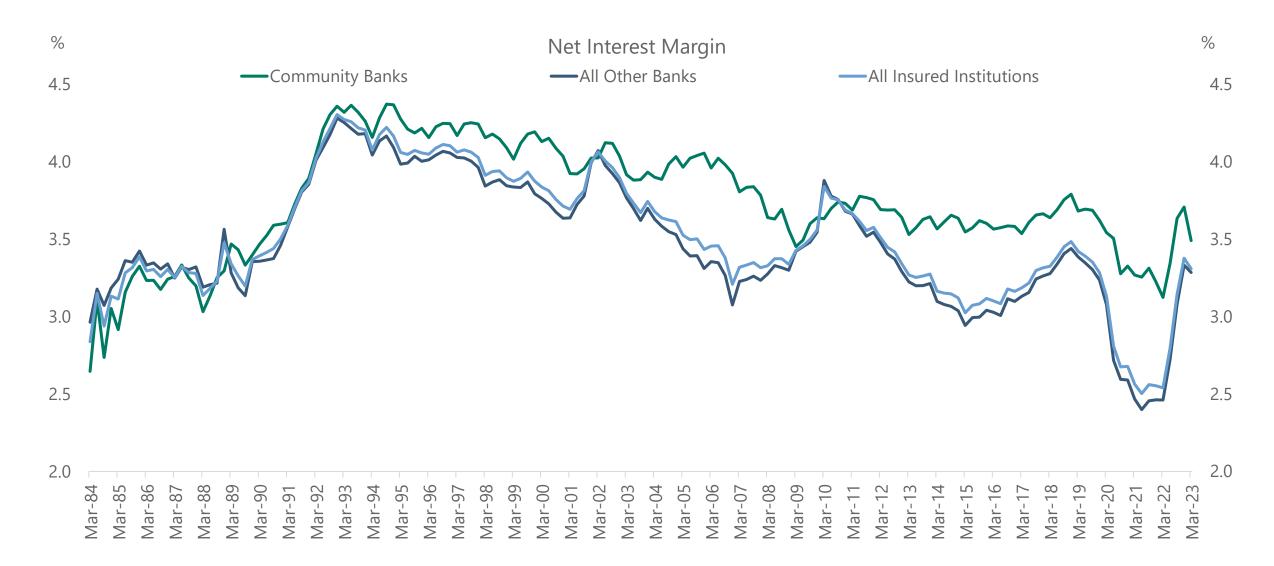


CRE loans make up a significant share of community banks' assets



Source: FDIC, Apollo Chief Economist.

Net interest margin higher for community banks

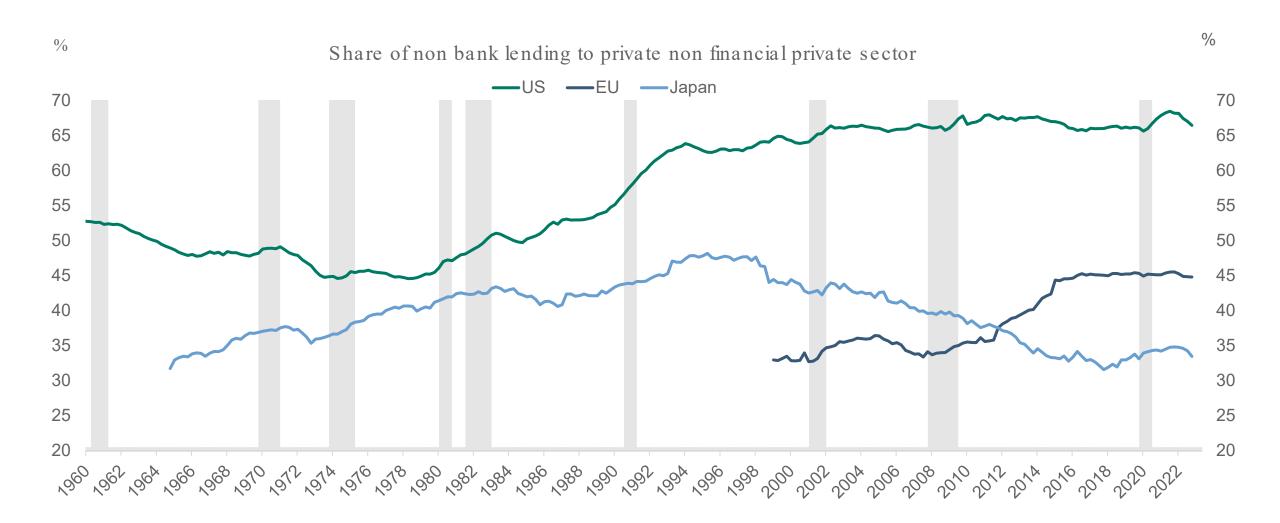


Source: FDIC, Apollo Chief Economist.

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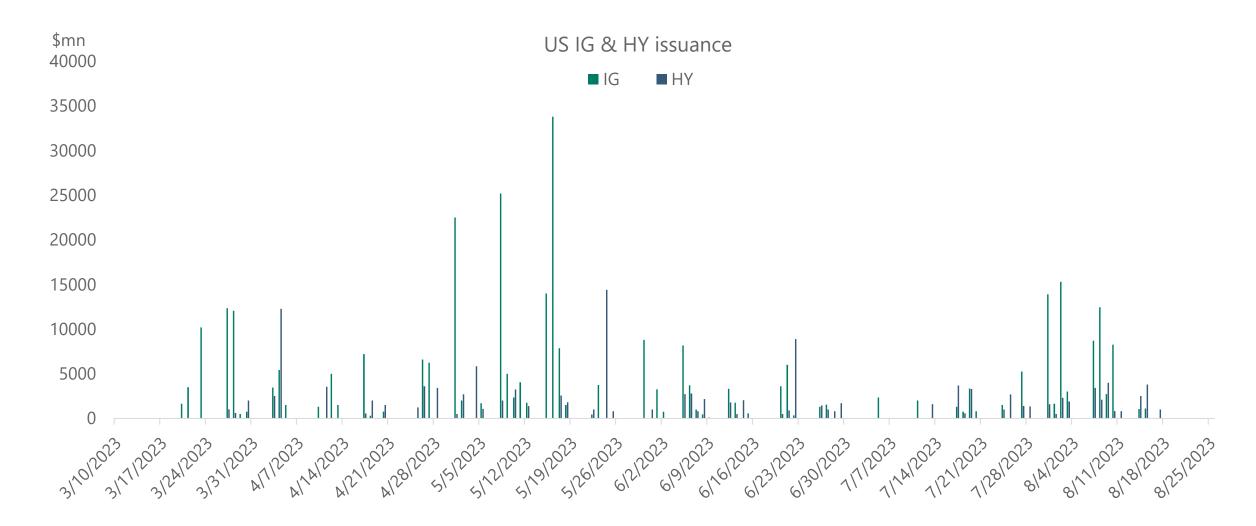
Other banking sector indicators

The US is a market-based financial system. EU and Japan are bank-based.

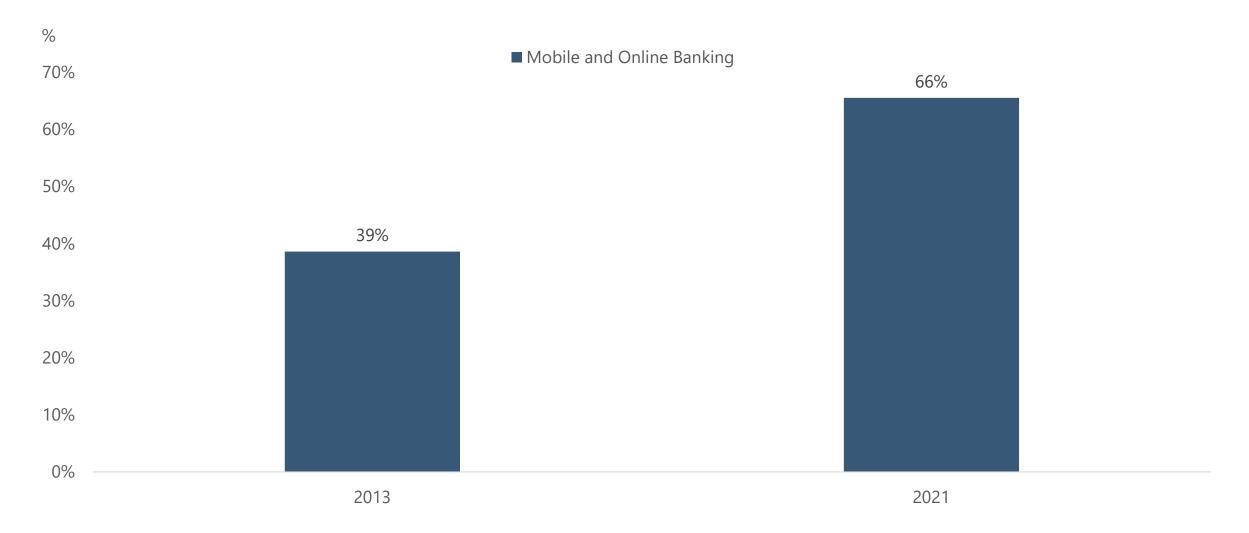


Source: BIS, Haver Analytics, Apollo Chief Economist.

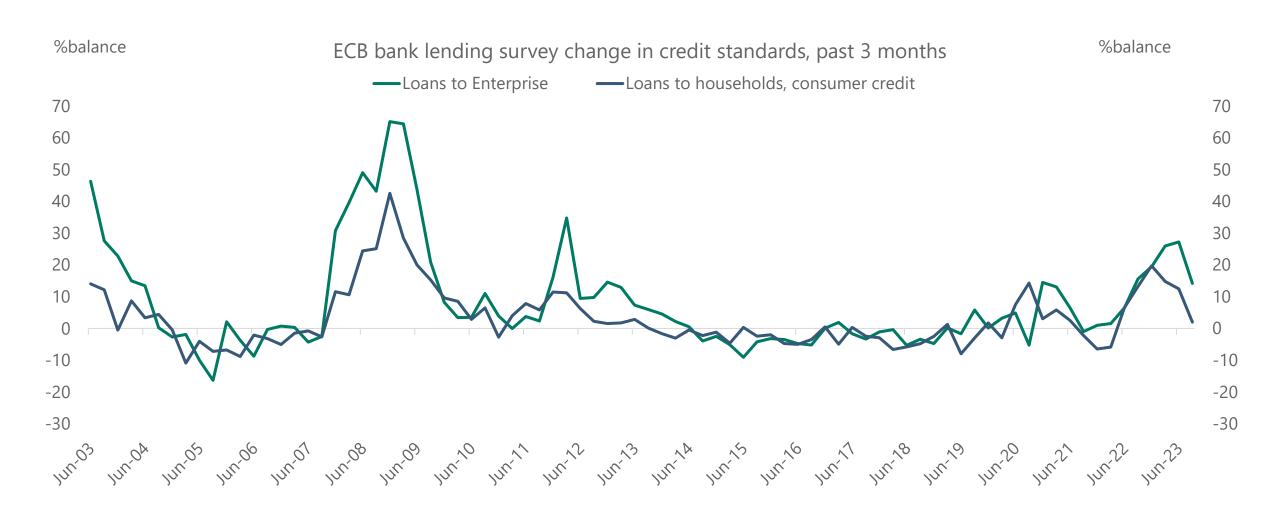
IG and HY primary issuance



Primary method of bank account access: More and more households use mobile and online banking

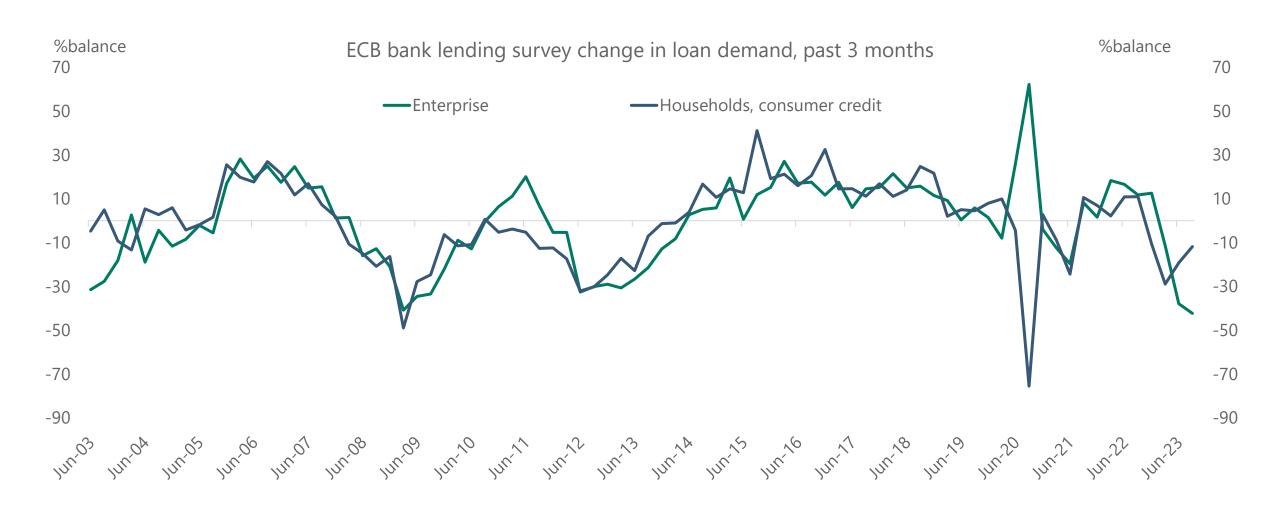


Euro Area credit conditions



Source: ECB Bank Lending Survey, Bloomberg, Apollo Chief Economist

Euro Area loan demand falling



Source: ECB Bank Lending Survey, Bloomberg, Apollo Chief Economist



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Torsten Slok joined Apollo in August 2020 as Chief Economist and he leads Apollo's macroeconomic and market analysis across the platform.

Prior to joining, Mr. Slok worked for 15 years as Chief Economist on the sell-side where his team was top ranked in the annual Institutional Investor survey for a decade. Mr. Slok has also worked at the IMF in Washington, DC and at the OECD in Paris.

Mr. Slok has a Ph.D in Economics and studied at the University of Copenhagen and Princeton University.