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Why is the yield curve steepening? Because of coming Fed cuts and fiscal challenges

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Why is the yield curve steepening?

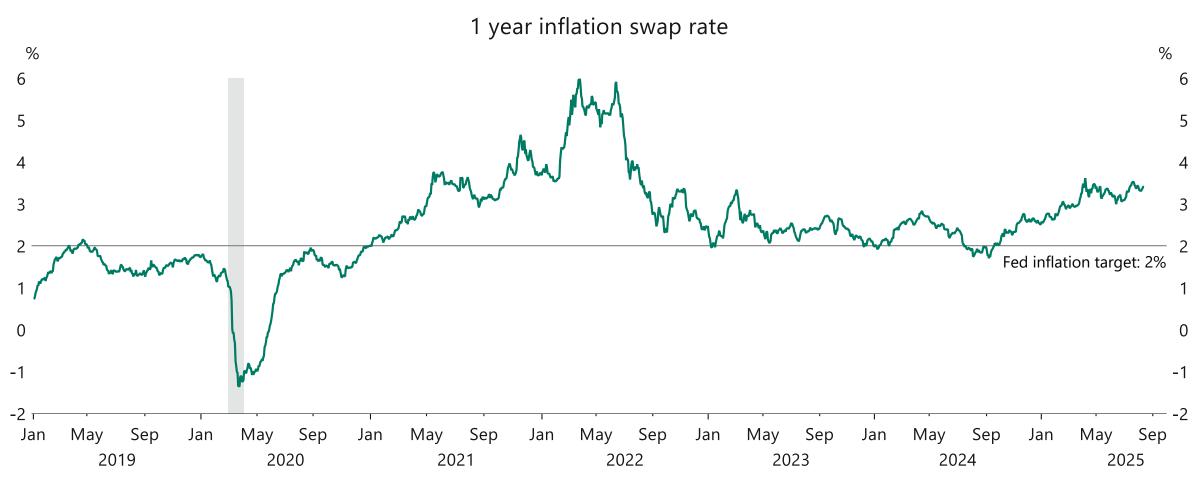
- 1. The Fed is cutting rates
- 2. If the market thinks the Fed is cutting for political reasons, it puts upward pressure on inflation expectations and ultimately long rates, which also steepens the curve.
- 3. Growing Treasury issuance is putting upward pressure on long rates.

Source: Apollo Chief Economist

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Fed expectations and inflation expectations

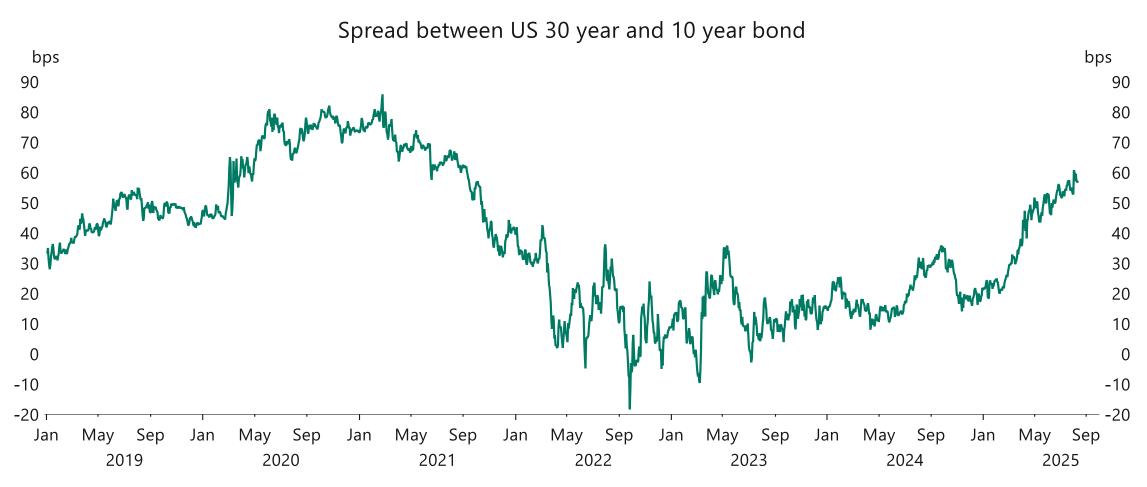
The market is pricing that inflation in one year will be 3.3%, significantly above the Fed's 2% target



Source: Bloomberg, Macrobond, Apollo Chief Economist. Note: Ticker used USSWIT1 Curncy

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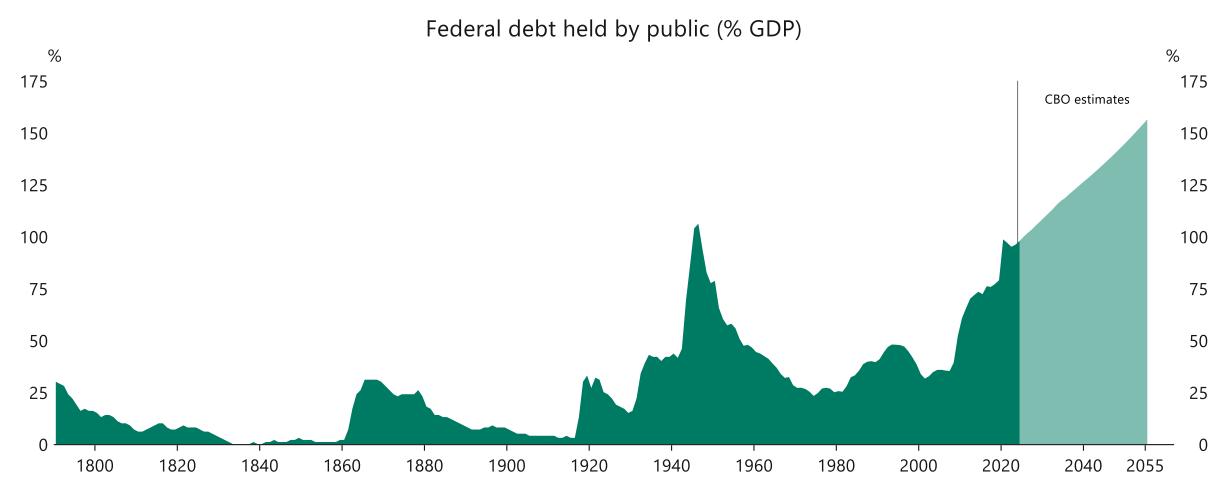
Spread between 30s and 10s continues to widen



Source: Bloomberg, Macrobond, Apollo Chief Economist

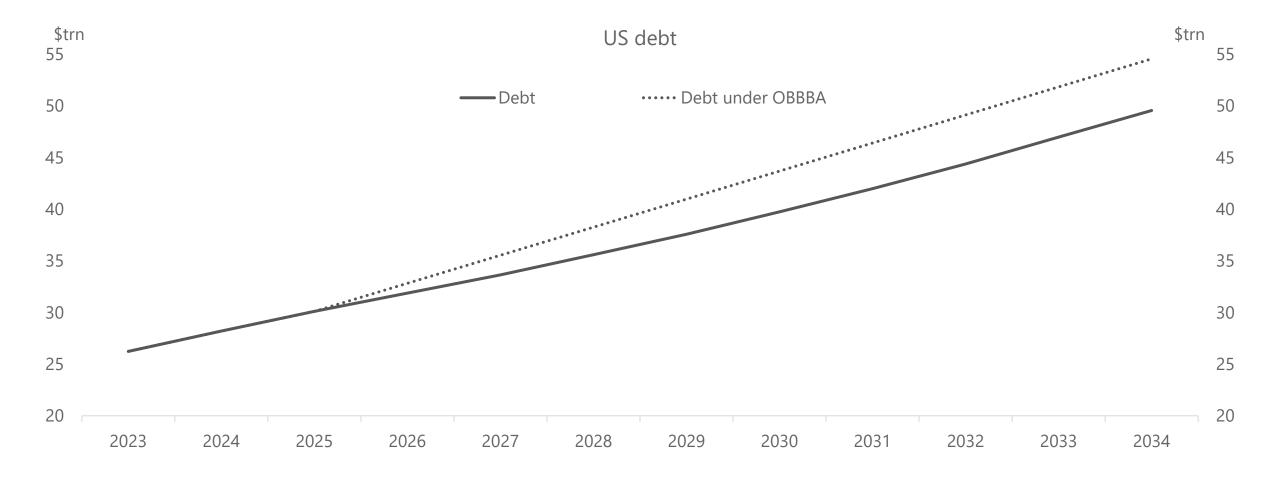
The US fiscal outlook

CBO: Under current policies, government debt outstanding will grow from 100% to 150% of GDP

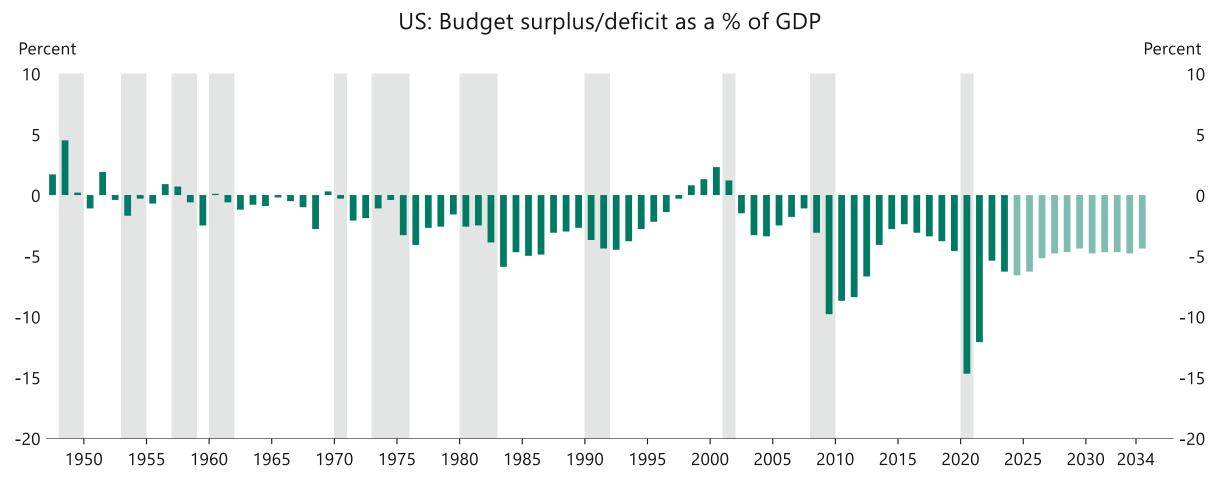


Source: U.S. Congressional Budget Office (CBO), Macrobond, Apollo Chief Economist

Debt levels expected to rise further under the One Big Beautiful Bill Act

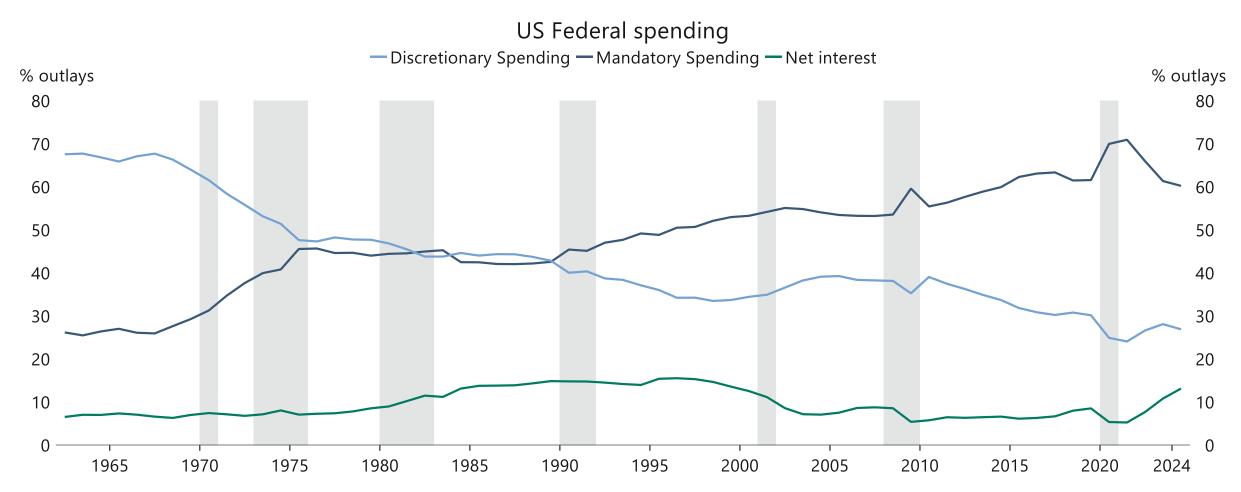


OMB forecasts 5% budget deficit every year for the next 10 years



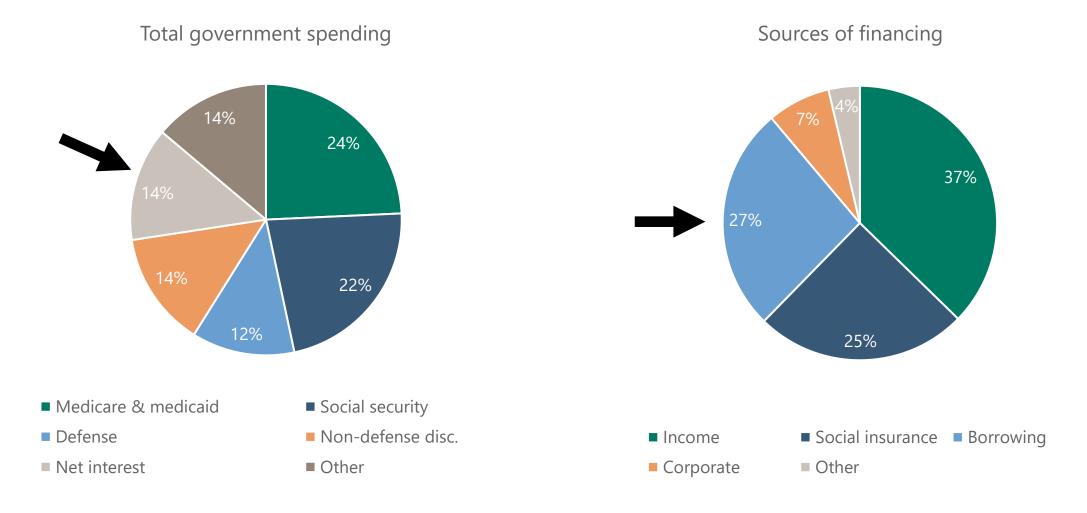
Source: U.S. Office of Management & Budget, Macrobond, Apollo Chief Economist

Discretionary government spending has declined from 70% of total outlays to 30%



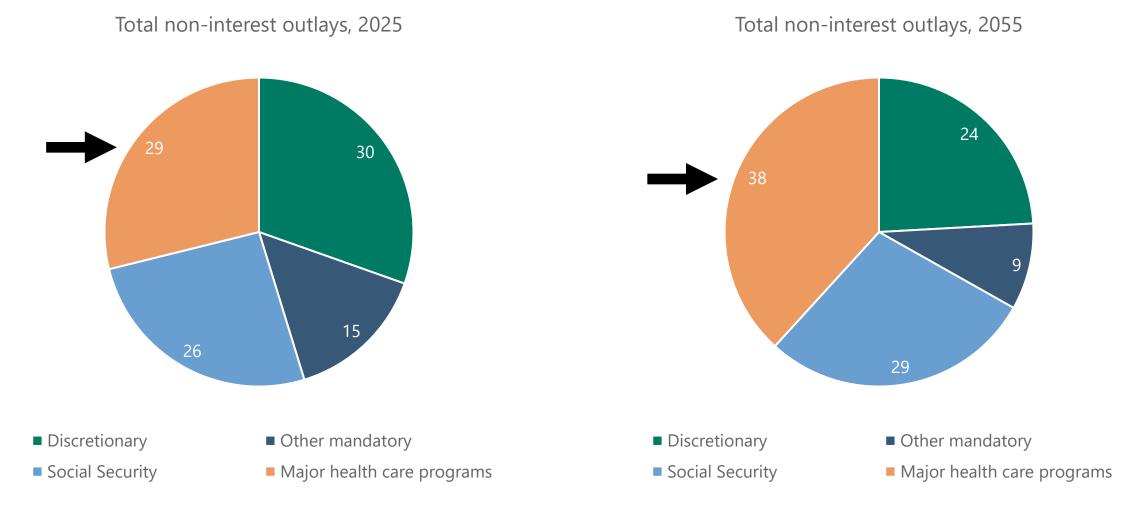
Source: U.S. Congressional Budget Office (CBO), Macrobond, Apollo Chief Economist

The 2025 federal budget: Net interest payments make up 14% of total government spending



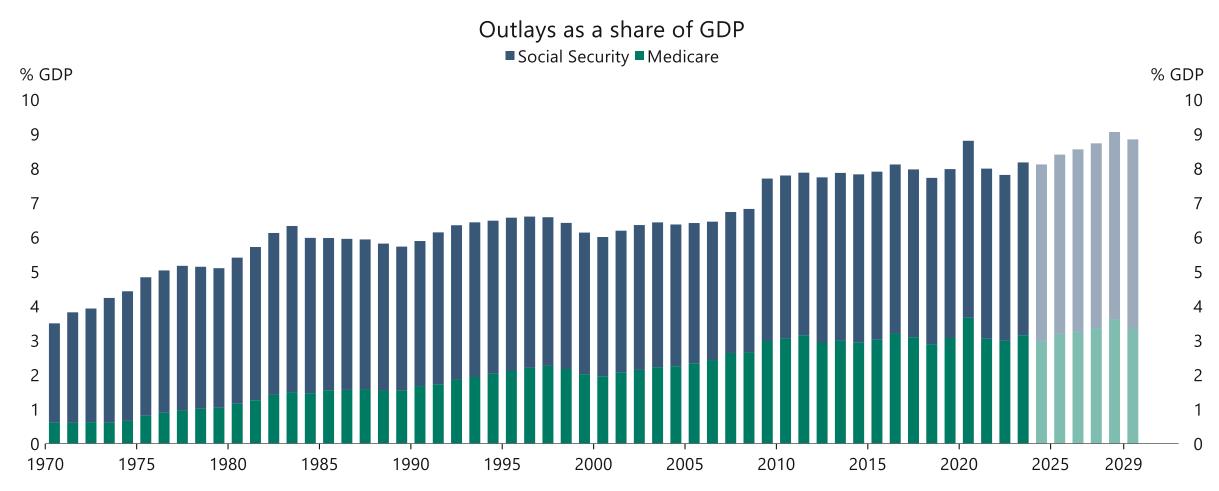
Source: CBO, Apollo Chief Economist

CBO: Non-interest outlays distribution: Healthcare is more and more important



Source: CBO, Apollo Chief Economist

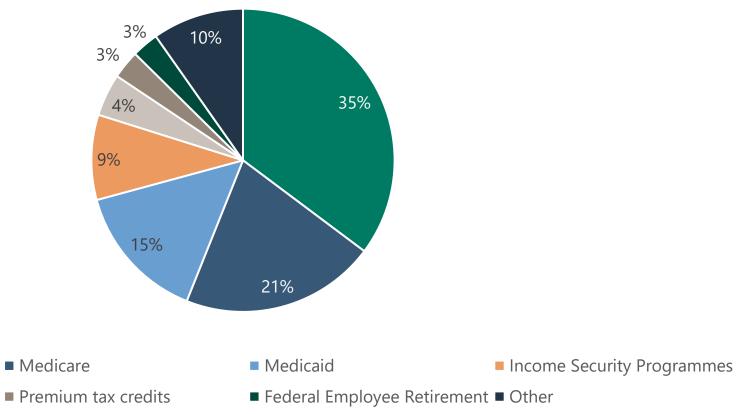
Budget pressures from an ageing population: Spending on Social Security and Medicare rising to 9% of GDP



Source: U.S. Office of Management & Budget, Macrobond, Apollo Chief Economist

Social security, Medicare and Medicaid make up 70% of mandatory spending



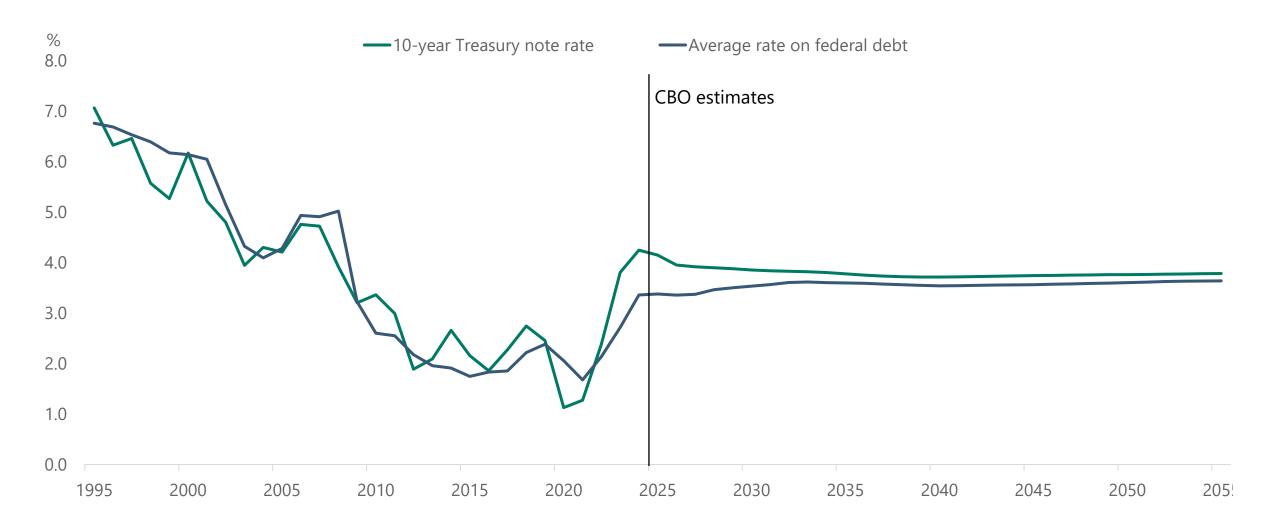


■ Veterans Benefits

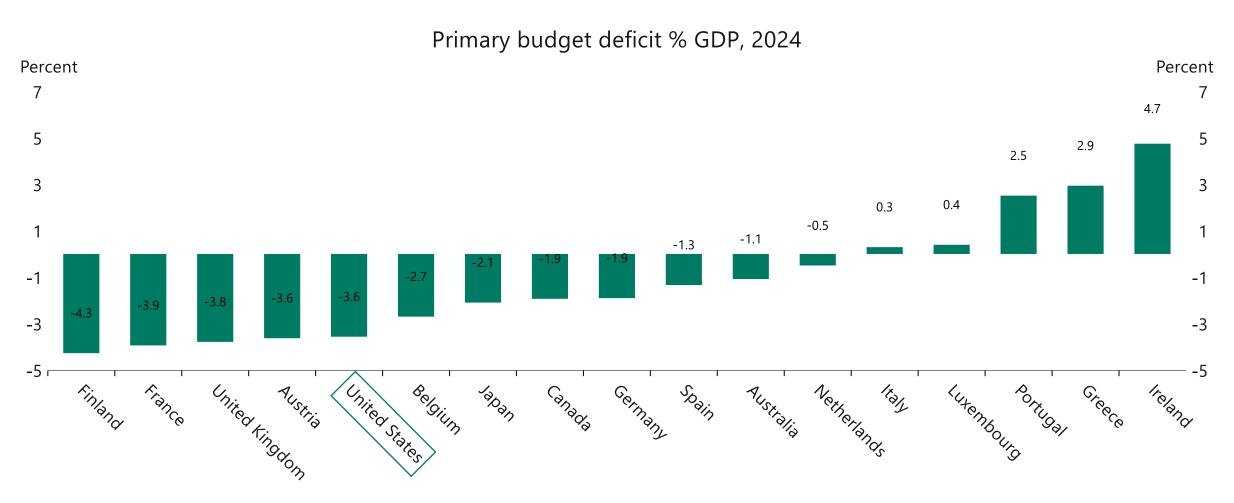
Social Security

Source: CBO, Haver Analytics, Apollo Chief Economist 15

CBO interest rate assumptions



The US has a bigger primary budget deficit than many other countries

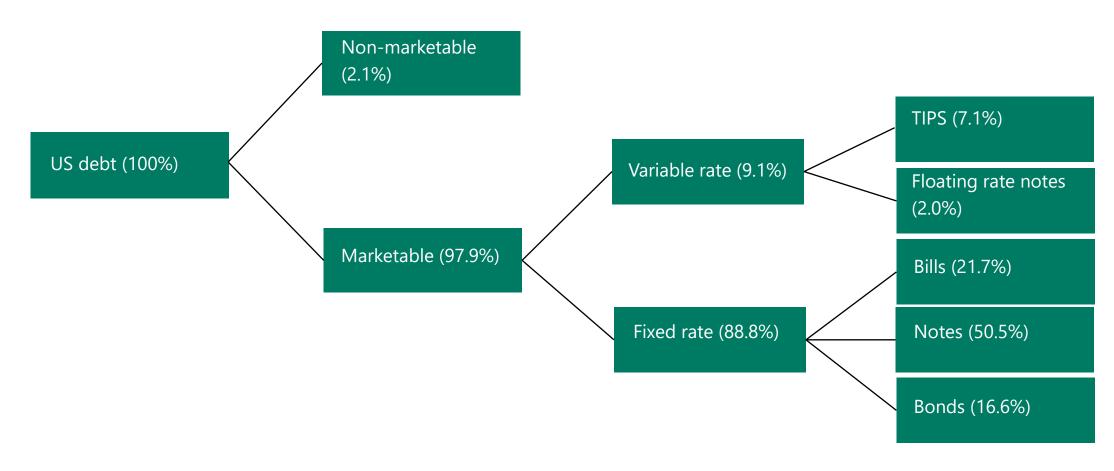


Source: International Monetary Fund (IMF), Macrobond, Apollo Chief Economist. Note: Primary budget deficit = budget deficit excluding interest payments.

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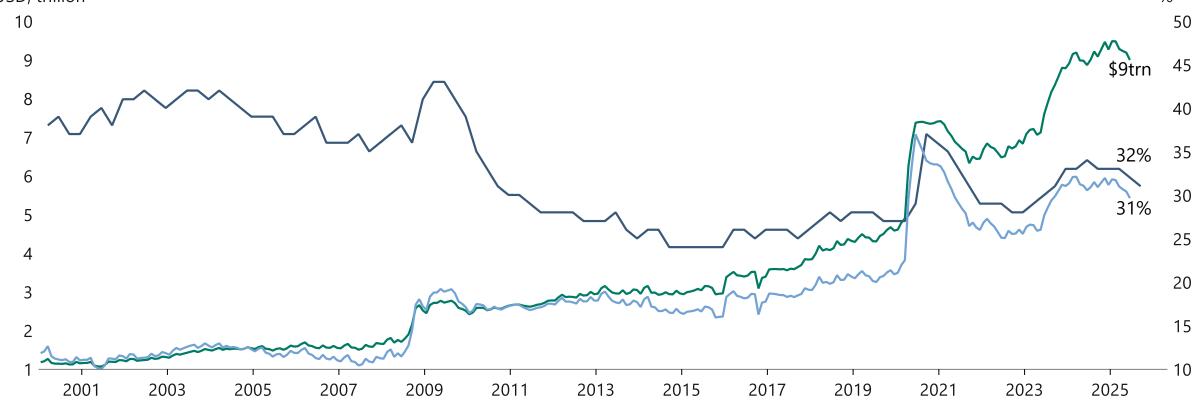
The maturity structure of US government debt

89% of US government debt is fixed rate. And 22% is in bills.



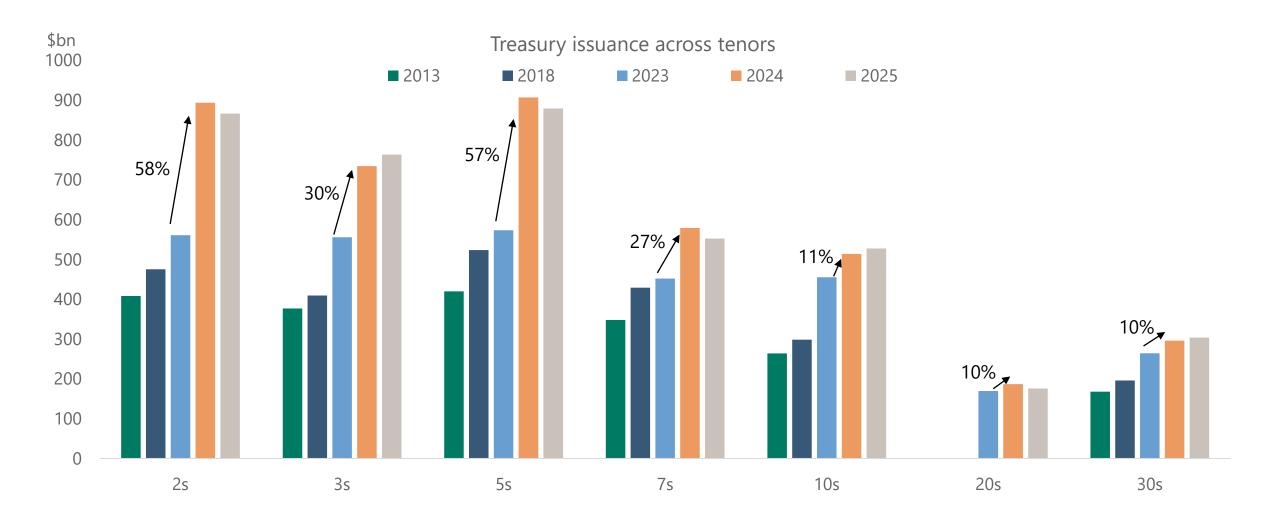
\$9trn of government debt will mature over the next year

- Marketable interest-bearing debt, amount maturing within 1-year or less (% GDP), rhs
- Percentage of marketable debt maturing in next 12-months, rhs Marketable interest-bearing debt, amount maturing within 1-year or Less, lhs USD, trillion

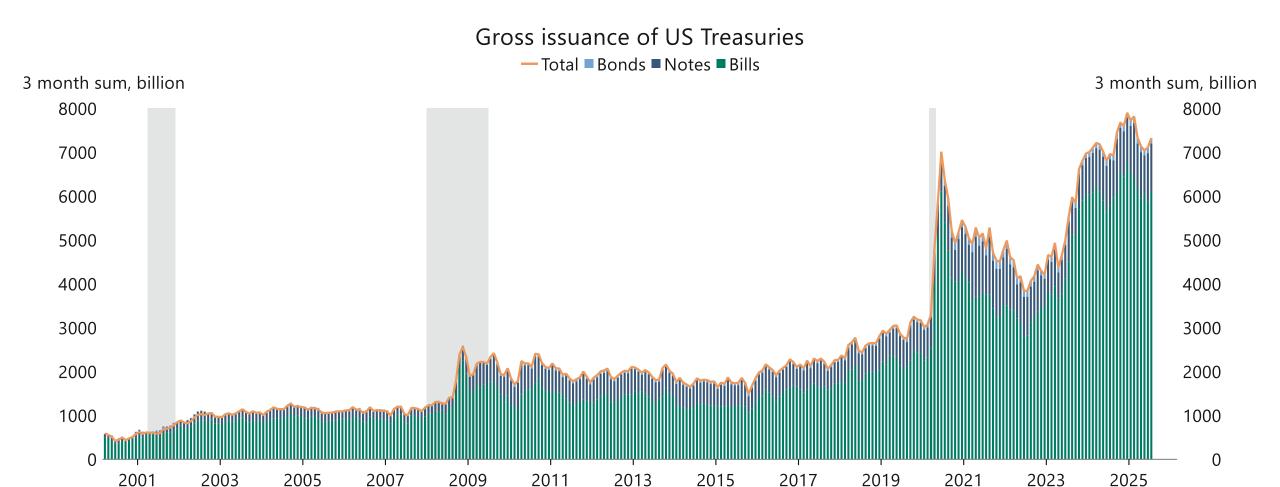


Source: U.S. Department of Treasury, Macrobond, Apollo Chief Economist

Treasury auction sizes have increased on across the yield curve

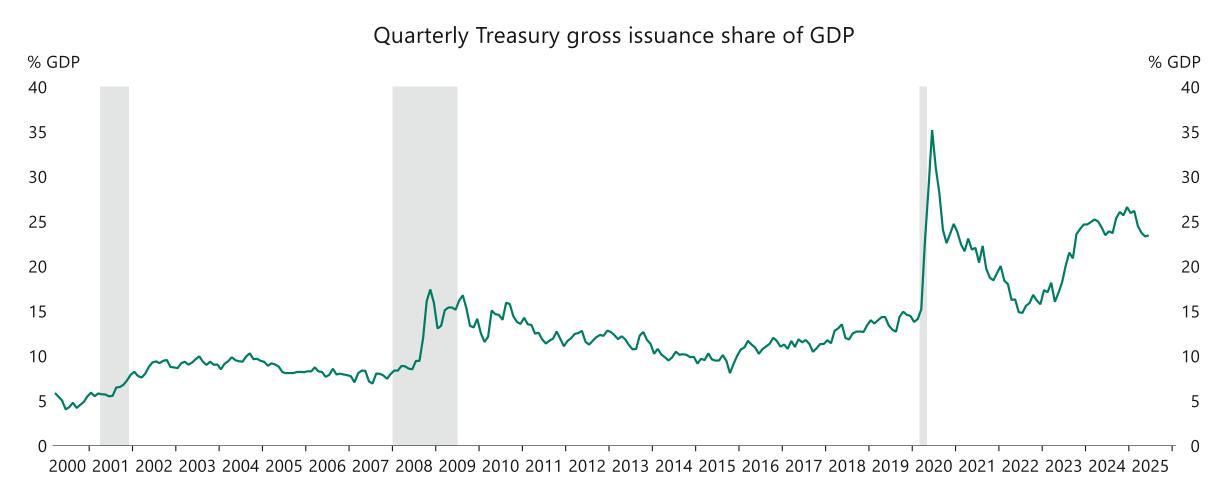


Gross issuance of Treasuries: \$7trn



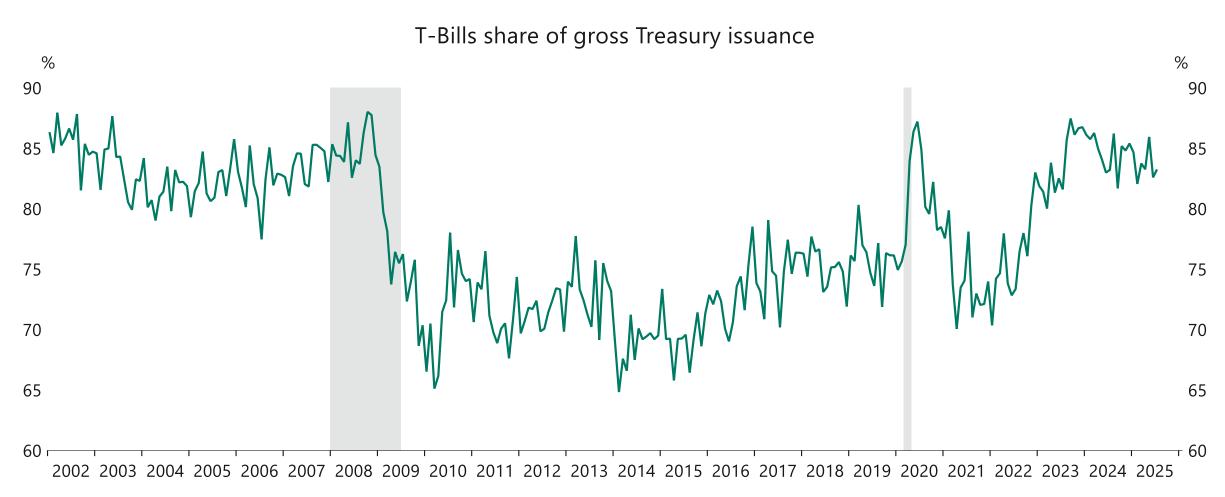
Source: SIFMA (Securities Industry & Financial Markets Association), Macrobond, Apollo Chief Economist

Quarterly gross Treasury issuance as a share of nominal GDP



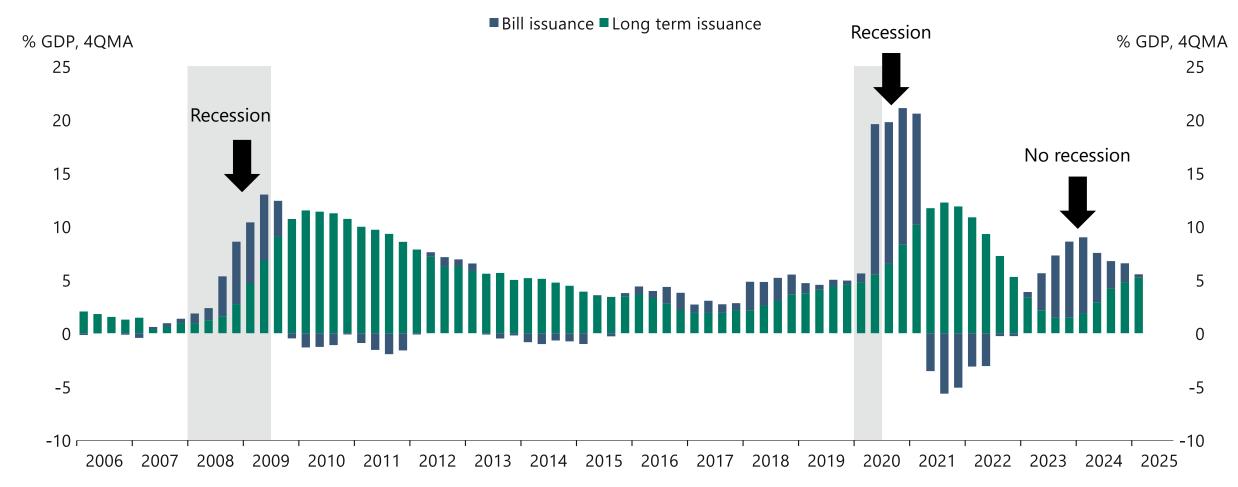
Source: SIFMA, BEA, Macrobond, Apollo Chief Economist

High share of Treasury gross issuance is T-bills



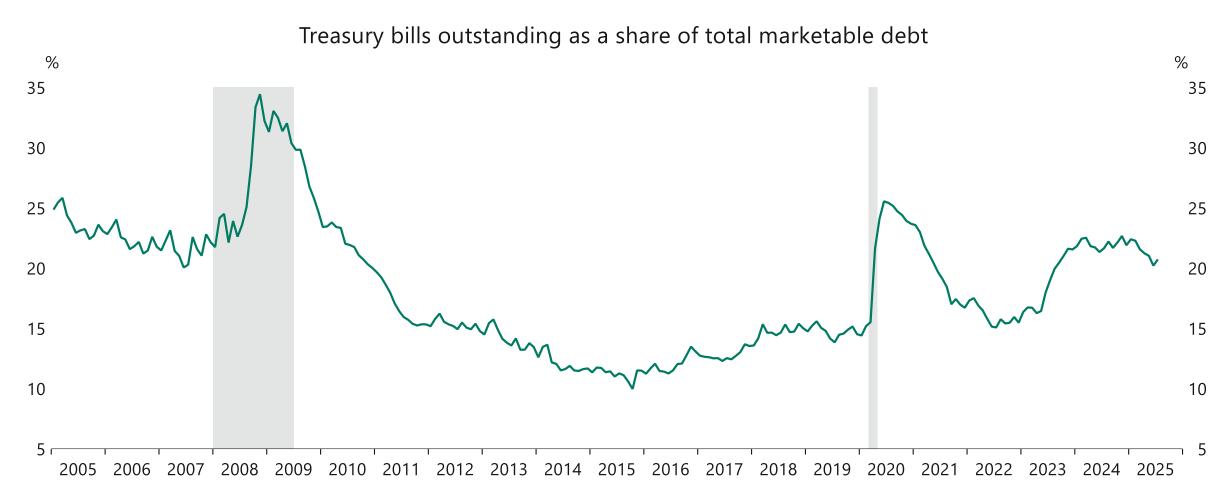
Source: SIFMA (Securities Industry & Financial Markets Association), Macrobond, Apollo Chief Economist

Normally, the Treasury only issues a lot of T-bills during recessions



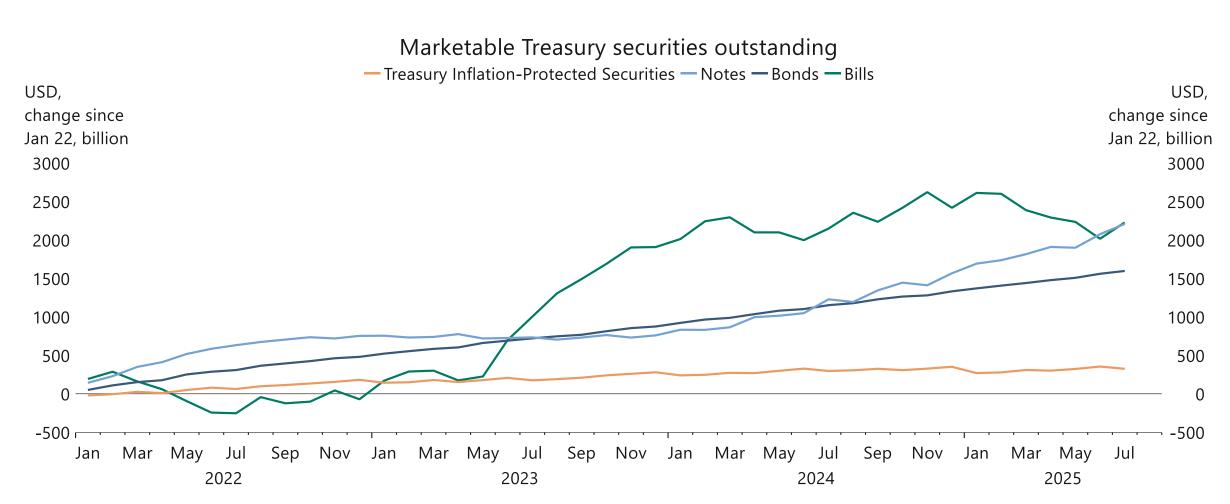
Source: Federal Reserve, U.S. Bureau of Economic Analysis (BEA), Macrobond, Apollo Chief Economist

Share of T-bills outstanding has increased



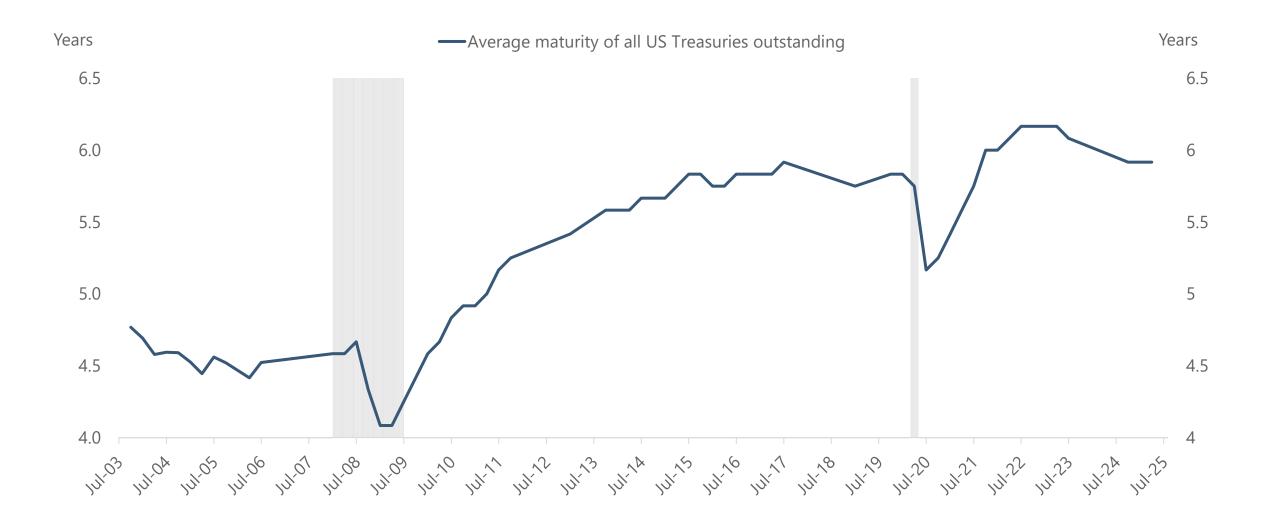
Source: U.S. Department of Treasury, Macrobond, Apollo Chief Economist

Significant increase in the supply of T-bills



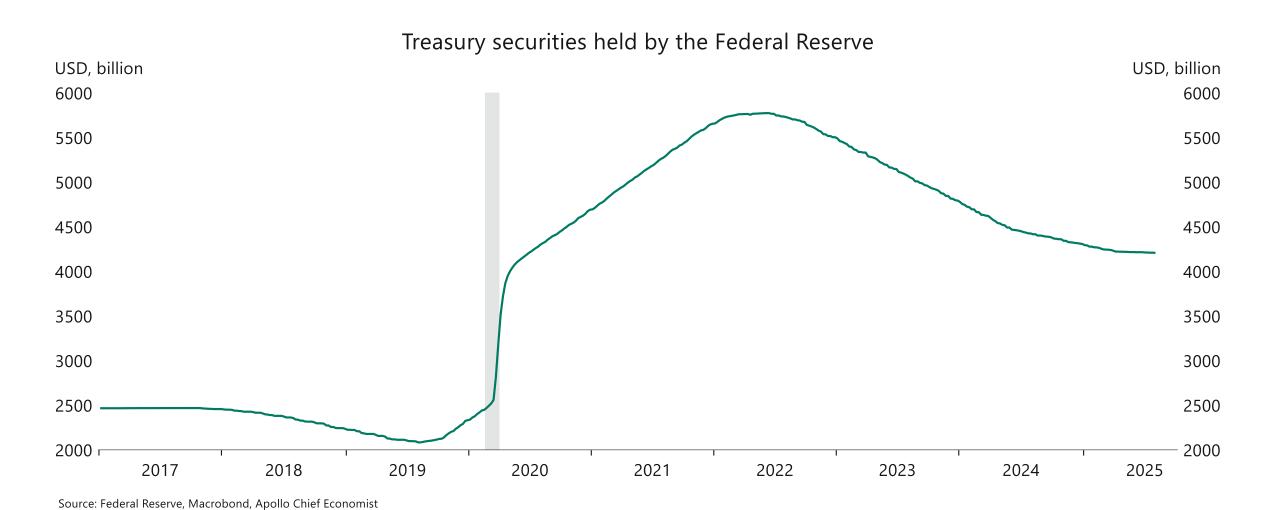
Source: U.S. Department of Treasury, Macrobond, Apollo Chief Economist

Weighted average maturity of debt outstanding declining



Source: Treasury, Haver Analytics, Apollo Chief Economist

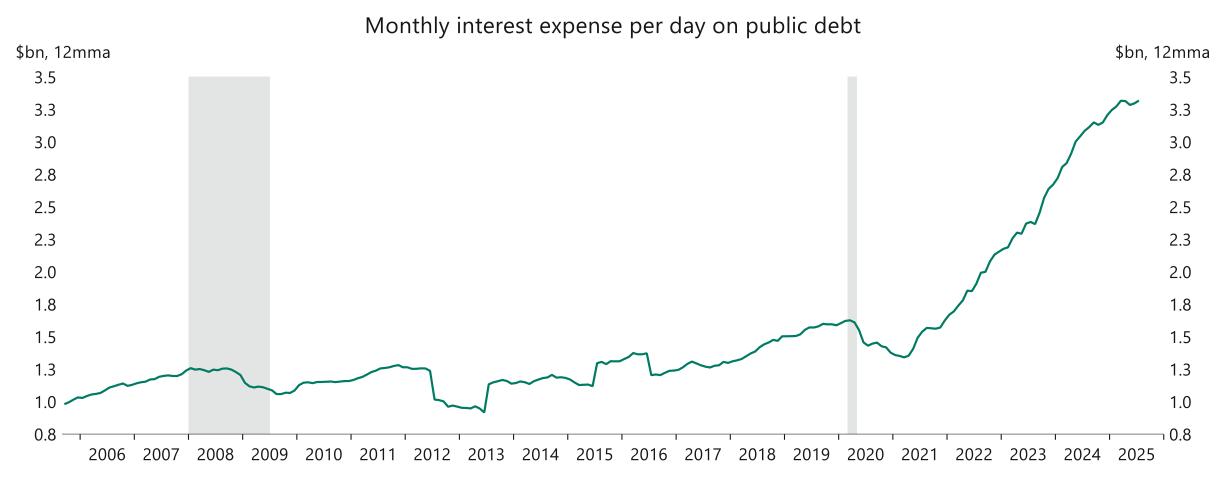
More Treasury supply coming from QT



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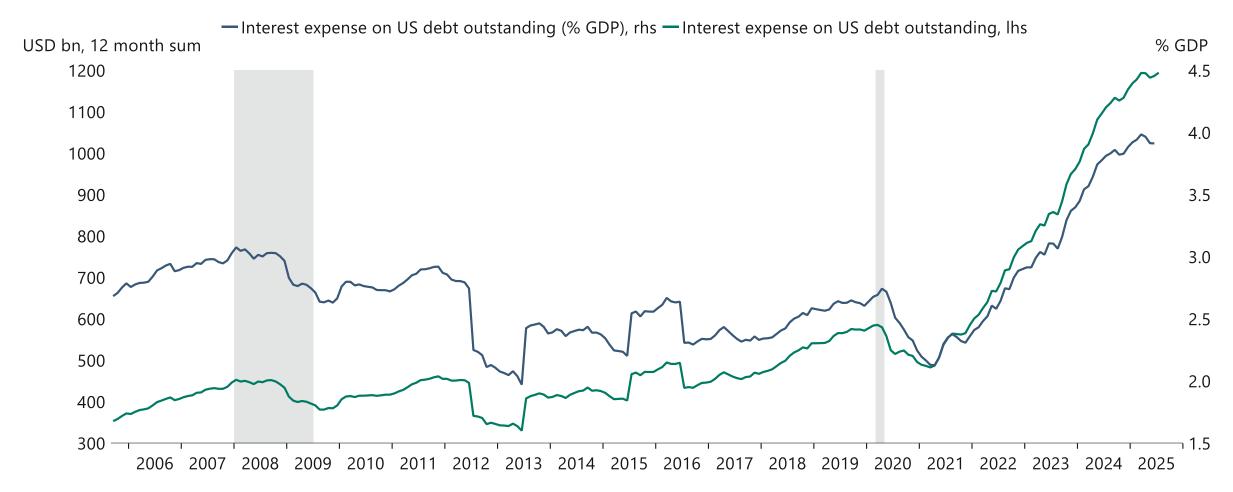
Debt servicing costs rising

Average federal net interest expense per day: \$3.3bn



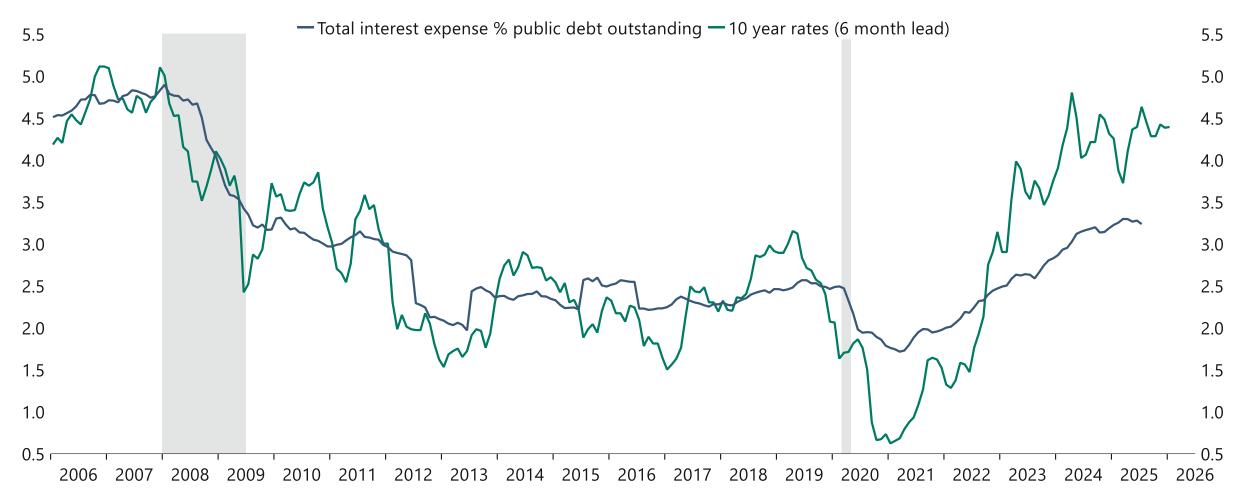
Source: US Treasury, Bloomberg, Macrobond, Apollo Chief Economist

US government paying \$1trn annually in debt servicing costs



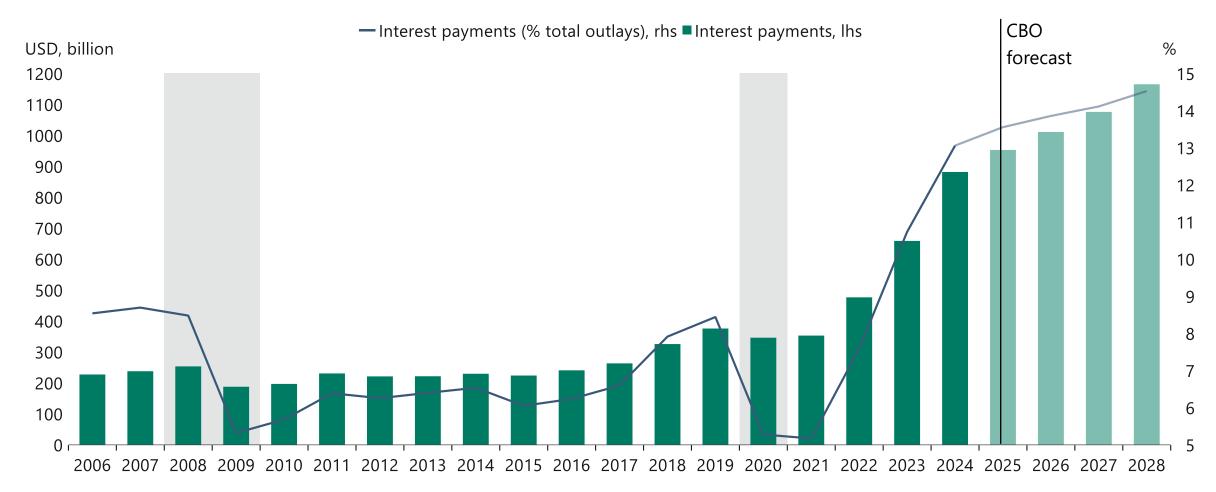
Source: US Treasury, Bloomberg, Macrobond, Apollo Chief Economist

Higher interest rates and higher debt levels putting upward pressure on interest payments



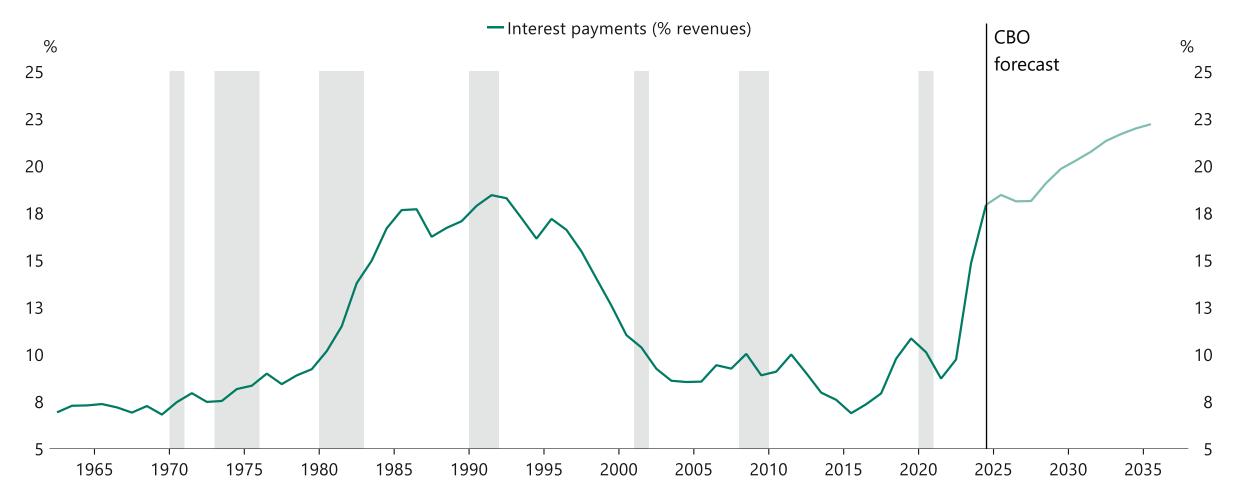
Source: Federal Reserve, Macrobond, Apollo Chief Economist

Net interest payments make up 13% of government spending



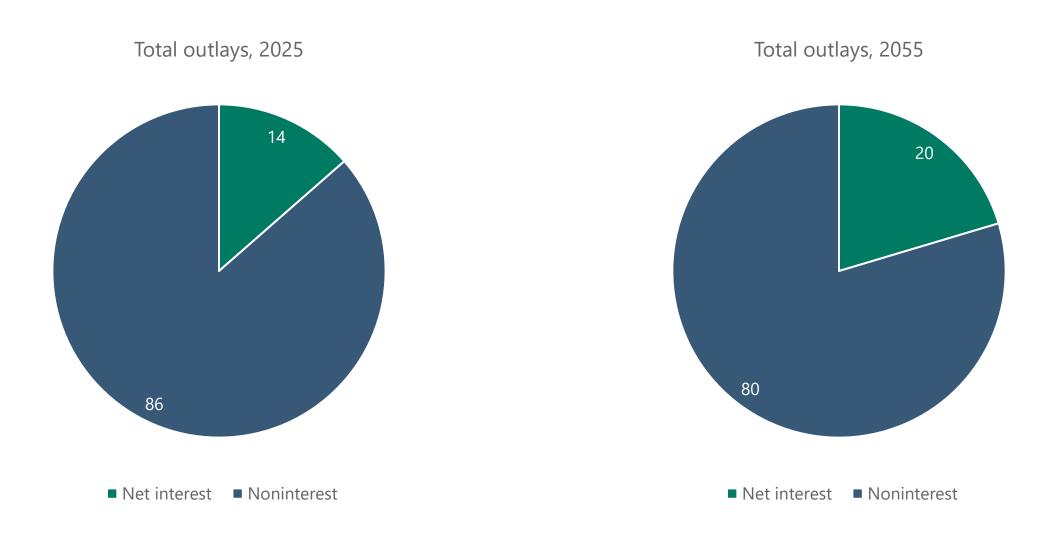
Source: U.S. Congressional Budget Office (CBO), Macrobond, Apollo Chief Economist

Net interest payments make up 18% of government revenues



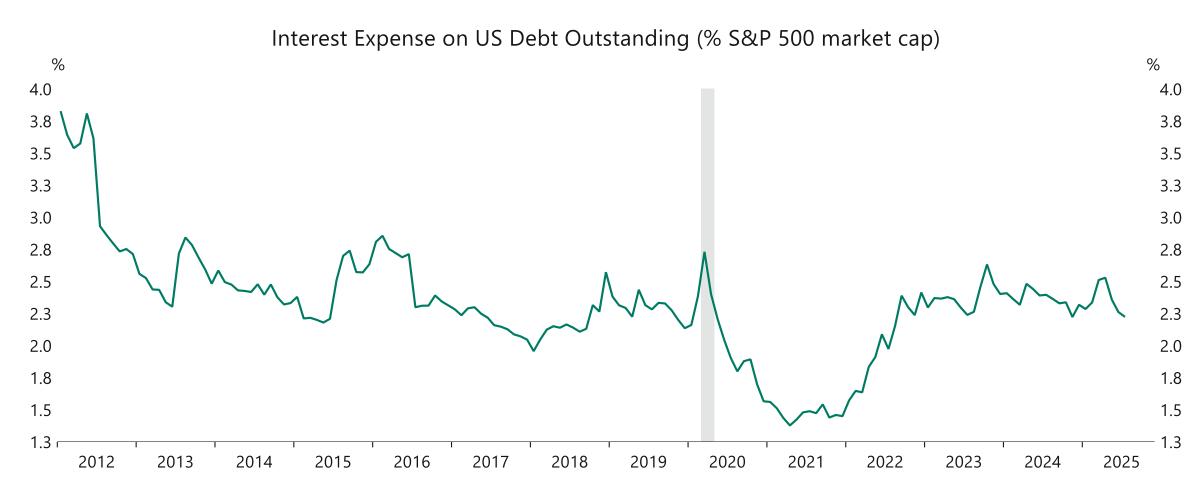
Source: U.S. Congressional Budget Office (CBO), Macrobond, Apollo Chief Economist

CBO: Debt servicing costs will grow as a share of total outlays



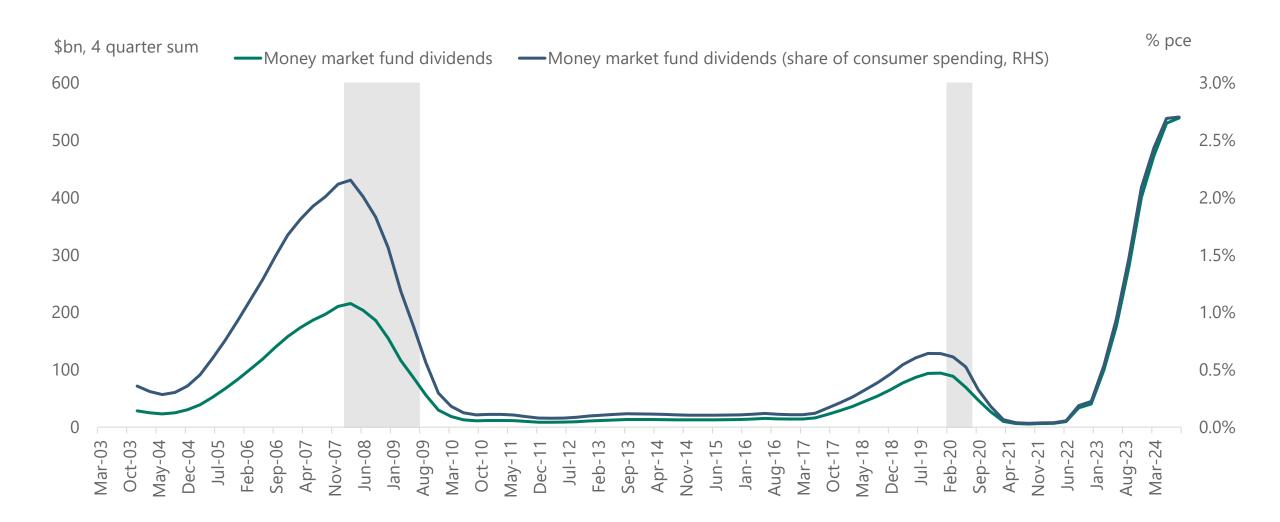
Source: CBO, Apollo Chief Economist

Interest expense on US government debt as a % of S&P 500 market cap



Source: US Treasury, Bloomberg, Macrobond, Apollo Chief Economist

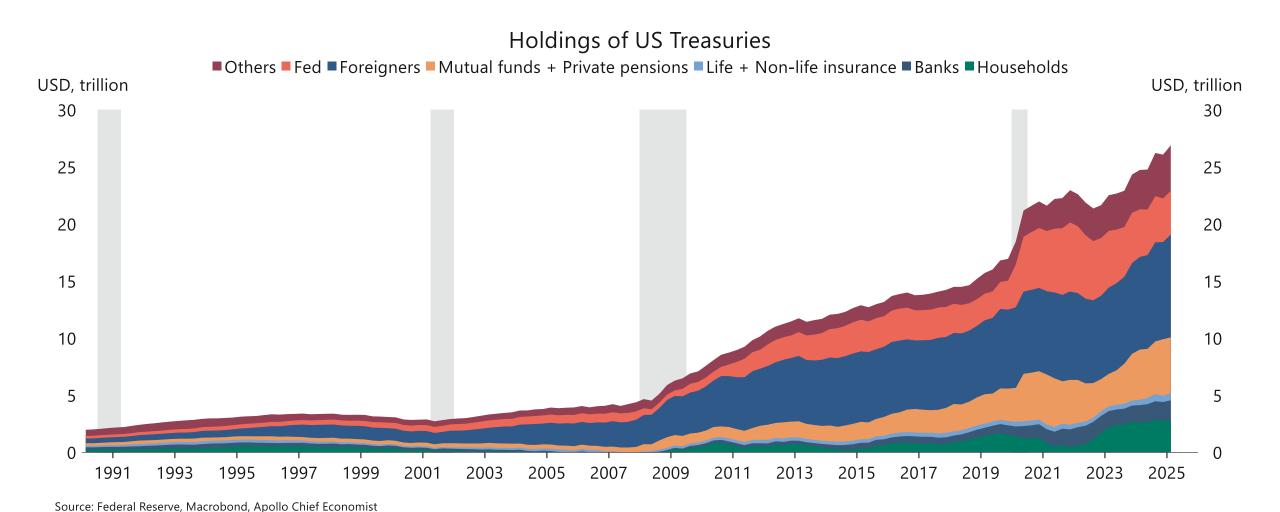
Money market funds currently pay around \$500bn in dividends. That's 2.5% of annual consumer spending.



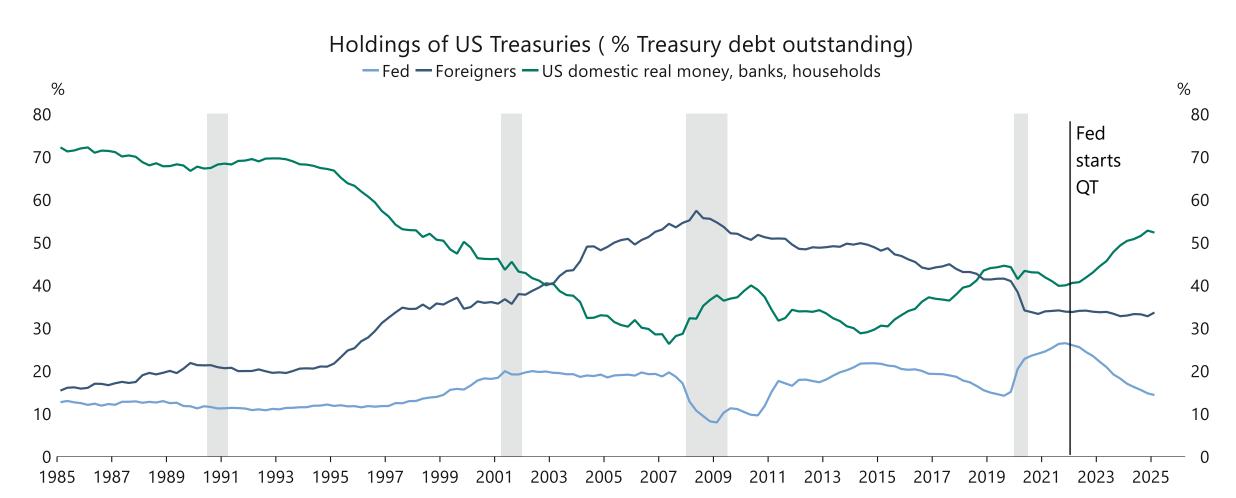
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Who owns US government debt?

Foreigners own about \$9trn in Treasuries, about 25% of the total

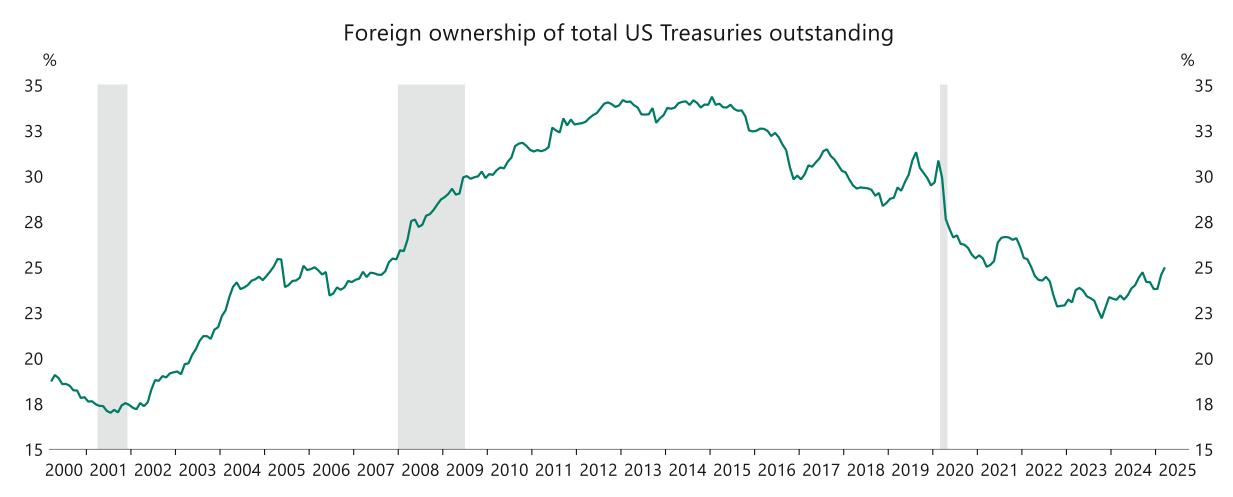


Fed selling Treasuries (doing QT). Domestic investors buying Treasuries



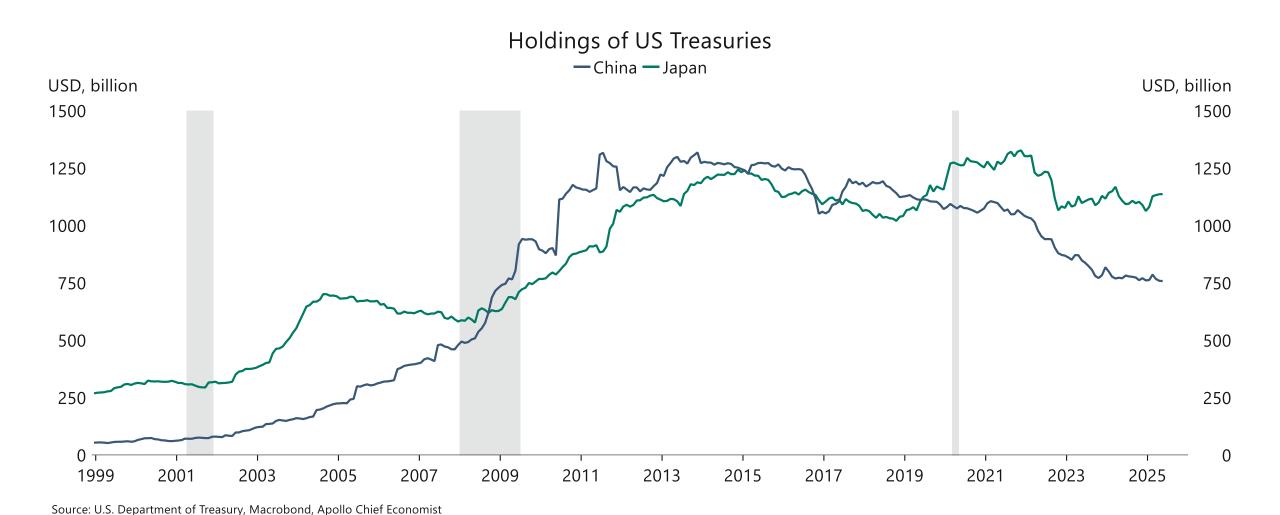
Source: Federal Reserve, Macrobond, Apollo Chief Economist

Rise in foreign ownership of US government bonds since 2023

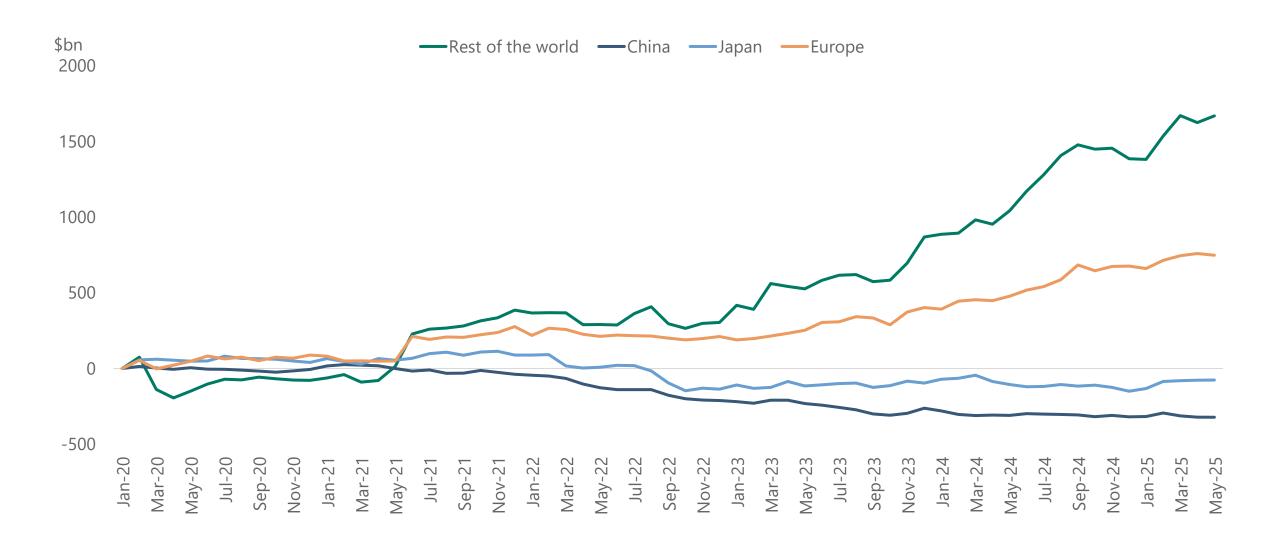


Source: U.S. Department of Treasury, Macrobond, Apollo Chief Economist

Japanese and Chinese holdings of Treasury securities

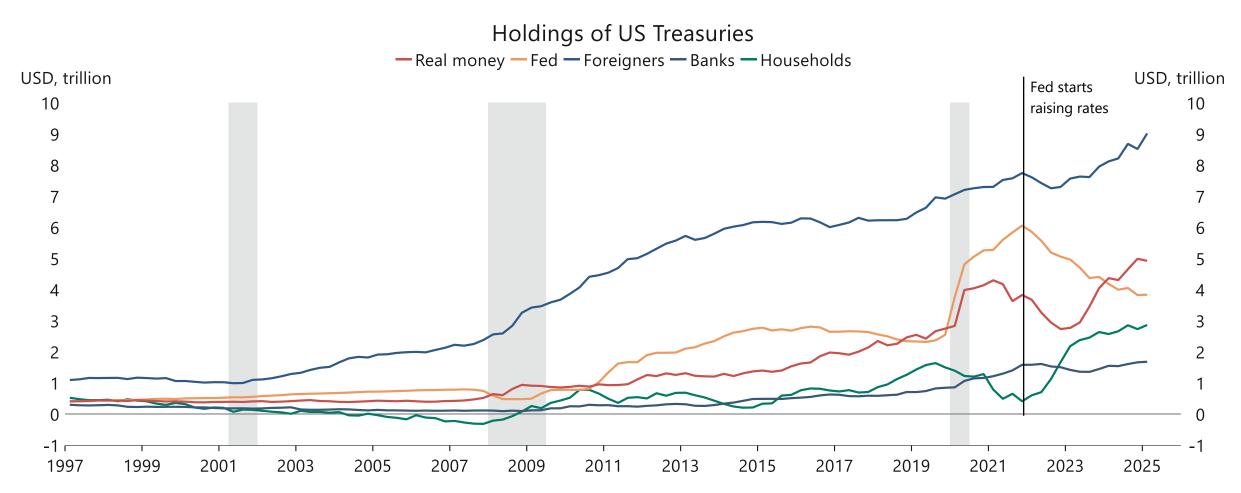


Change in foreign holdings of Treasuries in USD since January 2020



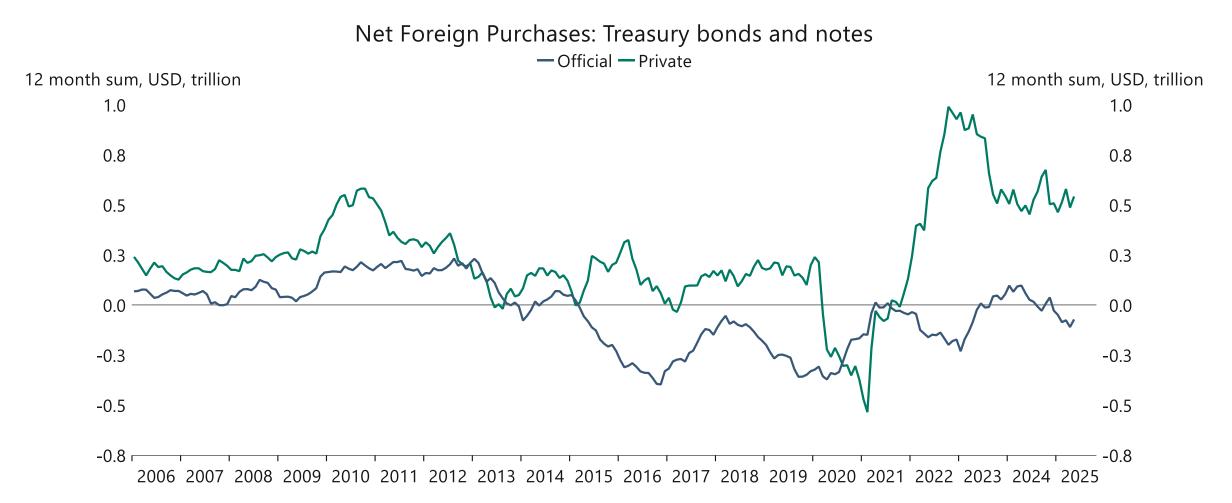
Source: U.S. Treasury, Haver Analytics, Apollo Chief Economist

US households, foreigners, and real money buying Treasuries. Fed selling Treasuries

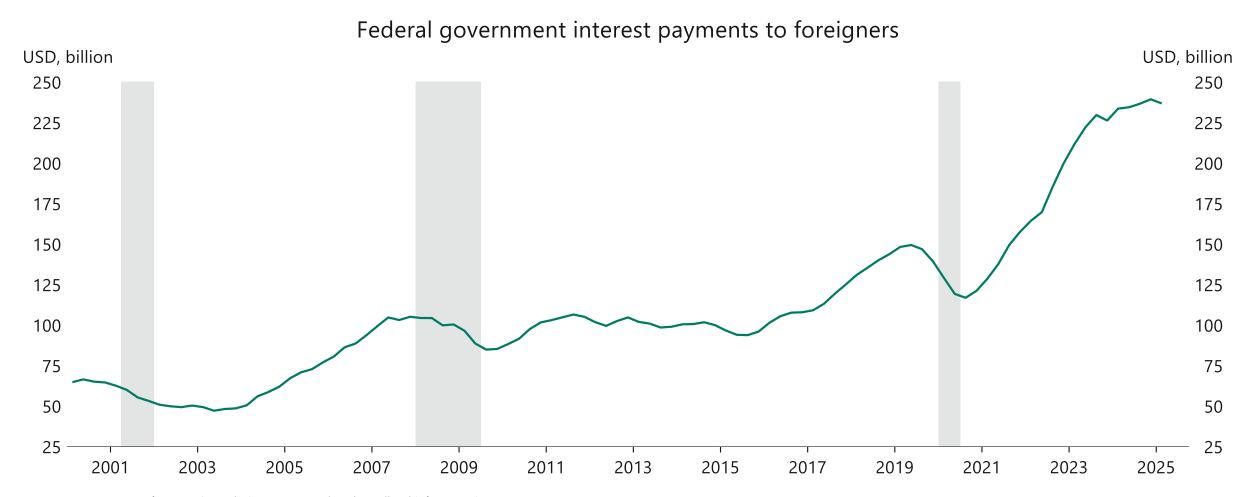


Source: Federal Reserve, Macrobond, Apollo Chief Economist

Foreign purchases of Treasuries come mainly from the private sector

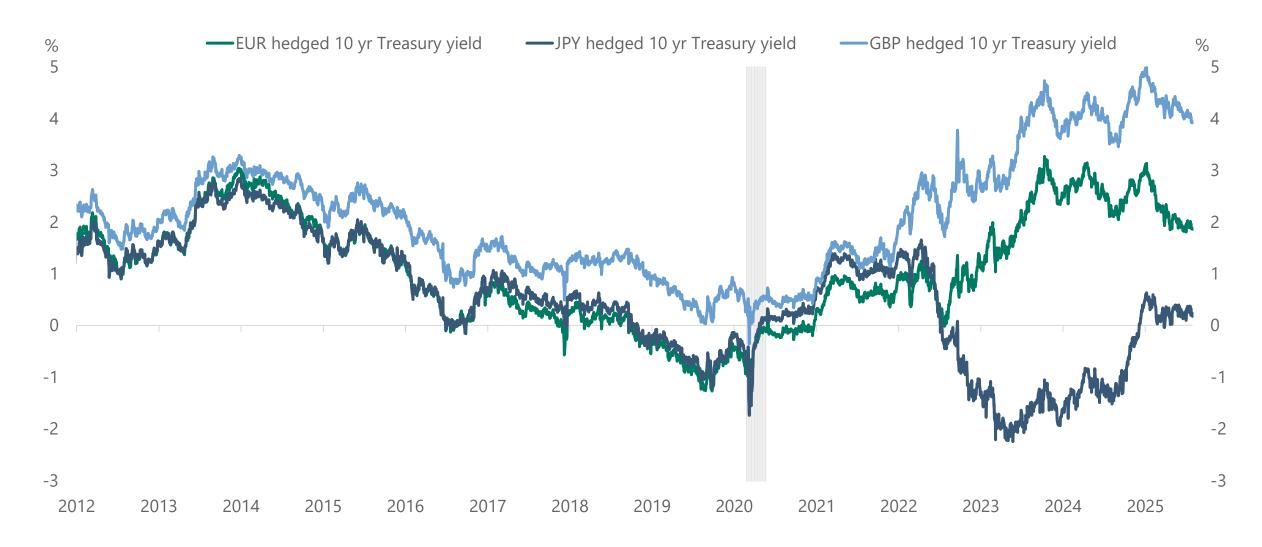


Interest payments to foreigners rising

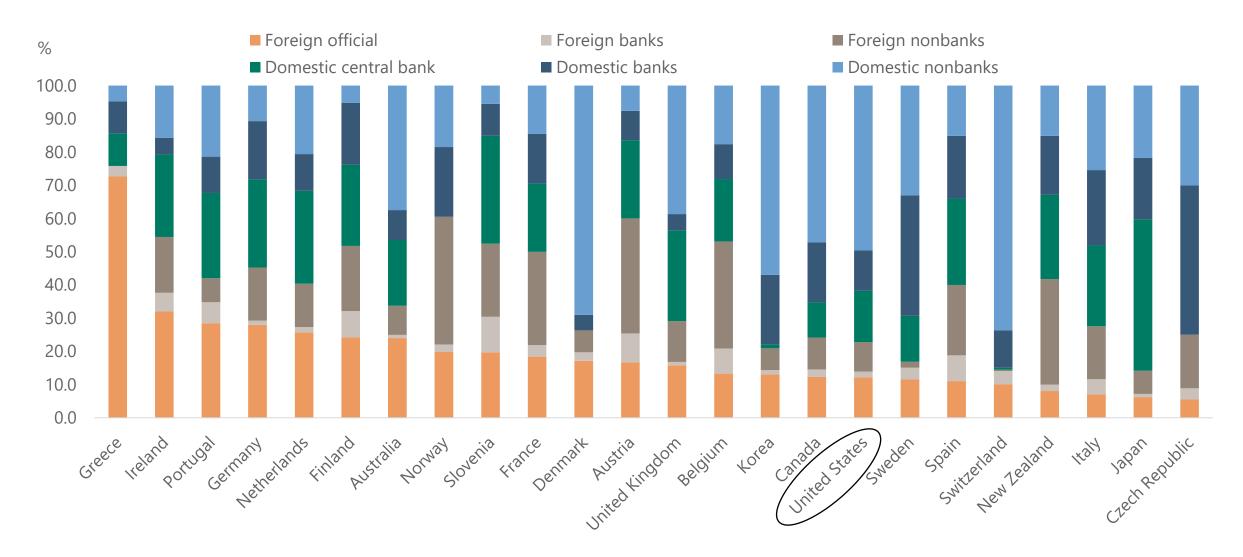


Source: U.S. Bureau of Economic Analysis (BEA), Macrobond, Apollo Chief Economist

Hedging costs are high for Japanese investors buying US Treasuries



Who owns different countries' government debt?

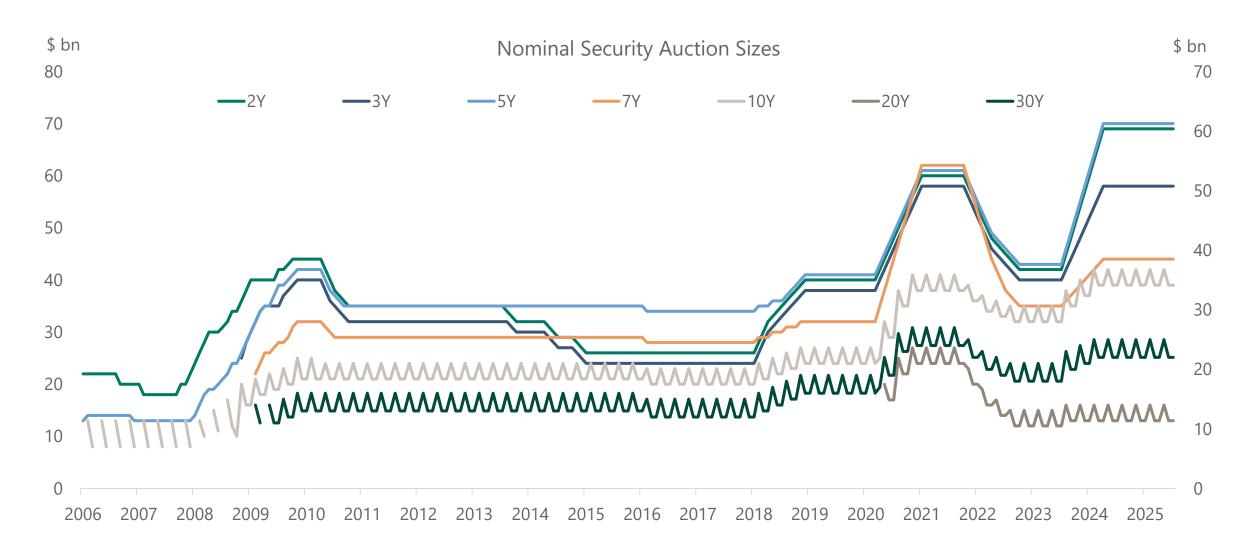


Source: The IMF, Apollo Chief Economist. Note: Data as of Q4 2023

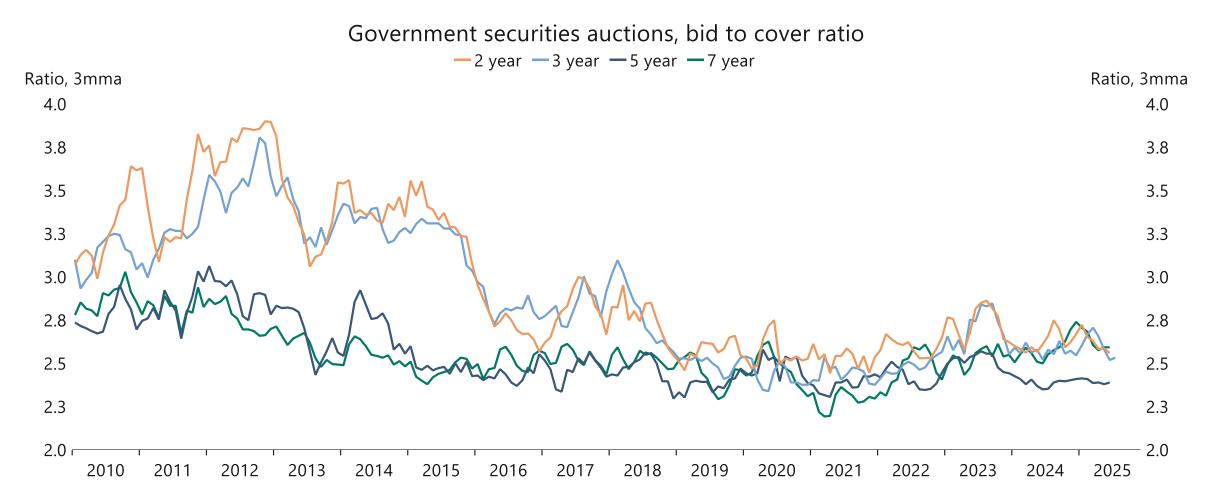
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Treasury auction metrics

Auction sizes growing in 2025



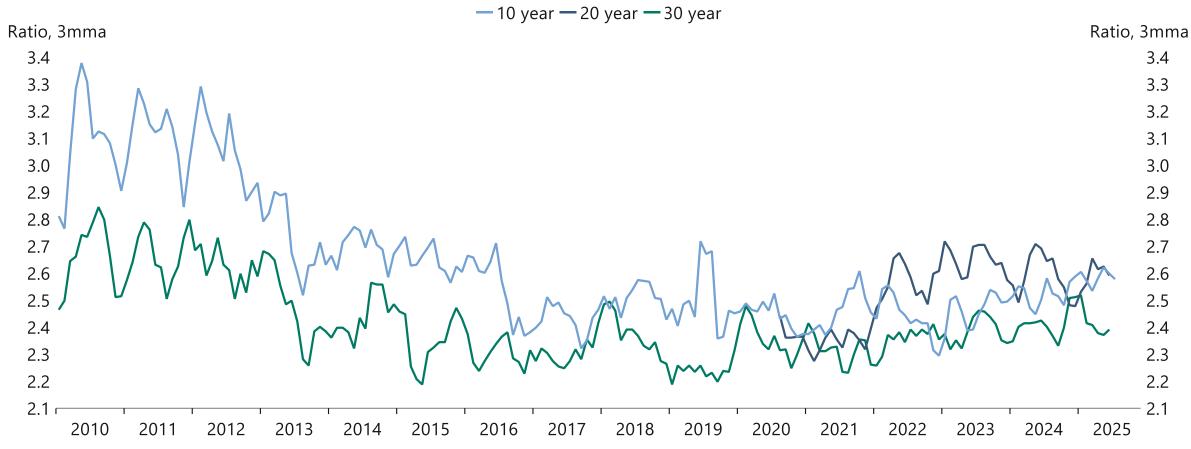
Rising Treasury supply increases downside risks to bid-to-cover ratios



Source: U.S. Department of Treasury, Macrobond, Apollo Chief Economist

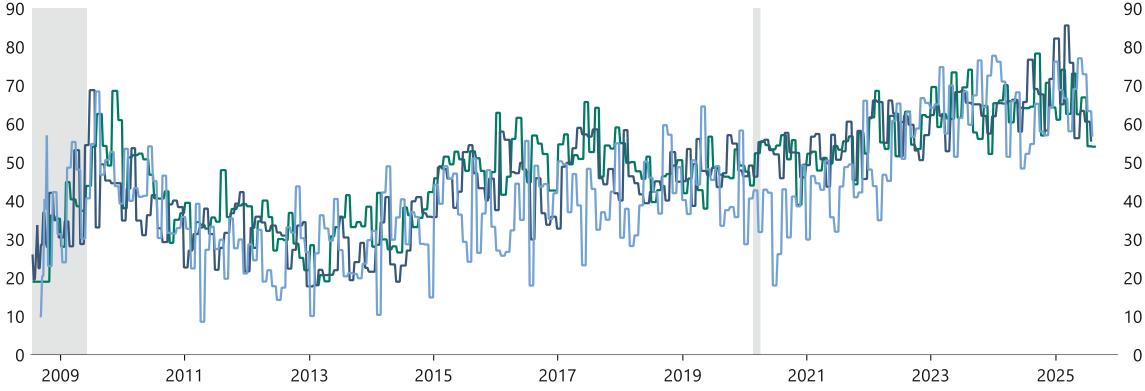
Rising Treasury supply increases downside risks to bid-to-cover ratios

Government securities auctions, bid to cover ratio



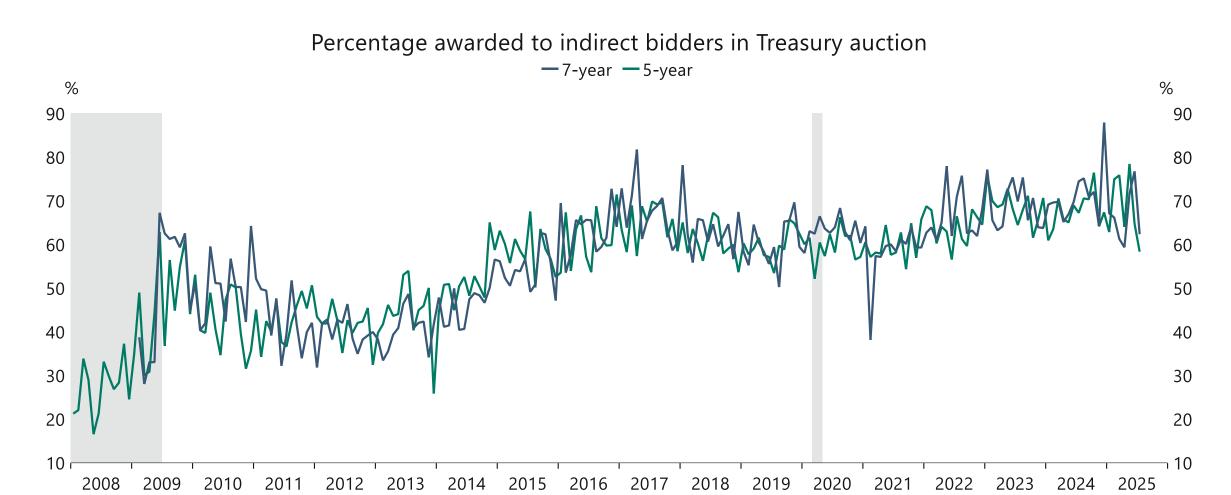
Indirect bidder share for 1, 2, and 3-year notes

Percentage awarded to indirect bidders in Treasury auction — 1-year — 2-year — 3-year %



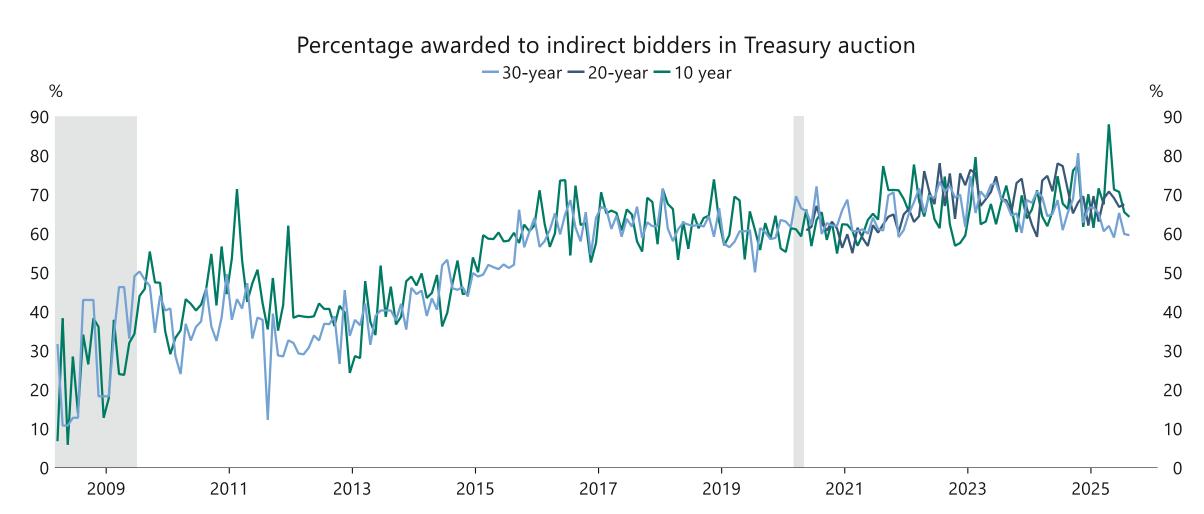
Source: US Treasury, Bloomberg, Macrobond, Apollo Chief Economist

Indirect bidder share for 5- and 7-year notes



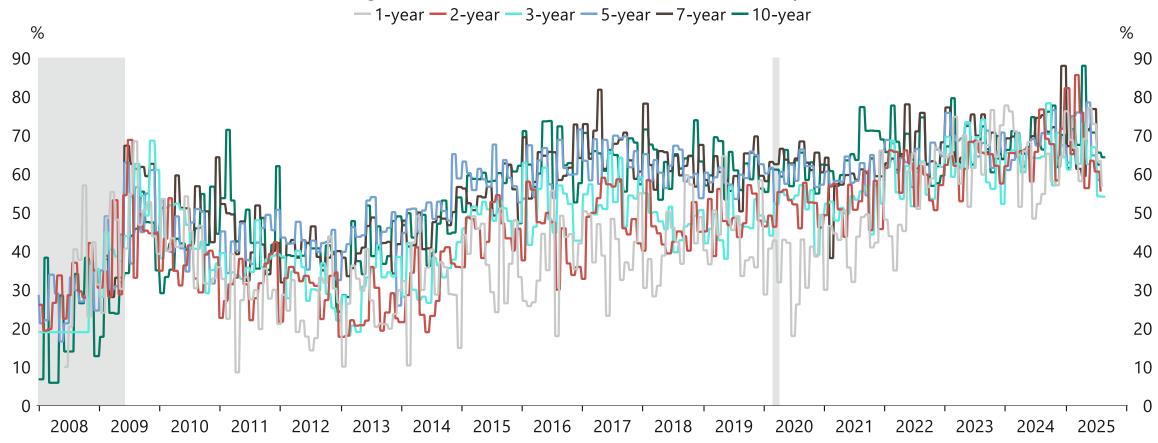
Source: US Treasury, Bloomberg, Macrobond, Apollo Chief Economist

Indirect bidder share for 10, 20, and 30-year Treasuries

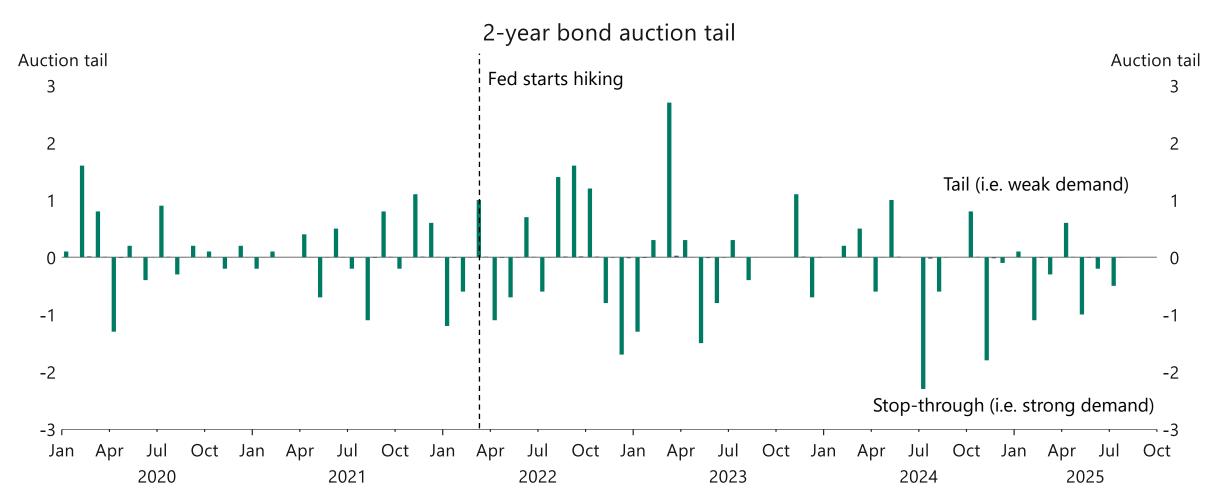


Indirect bidder share for Treasury notes

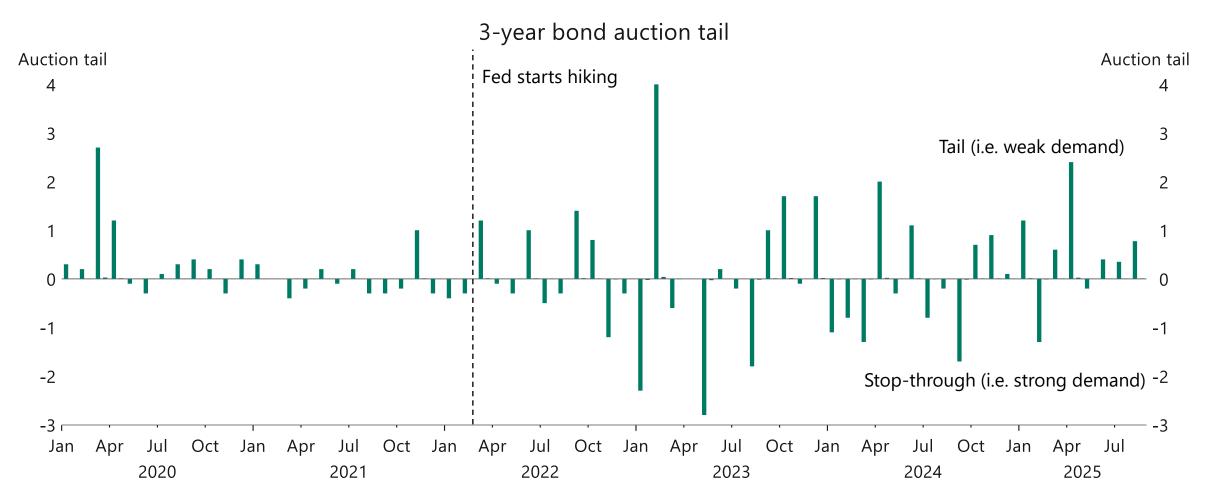
Percentage awarded to indirect bidders in Treasury auction



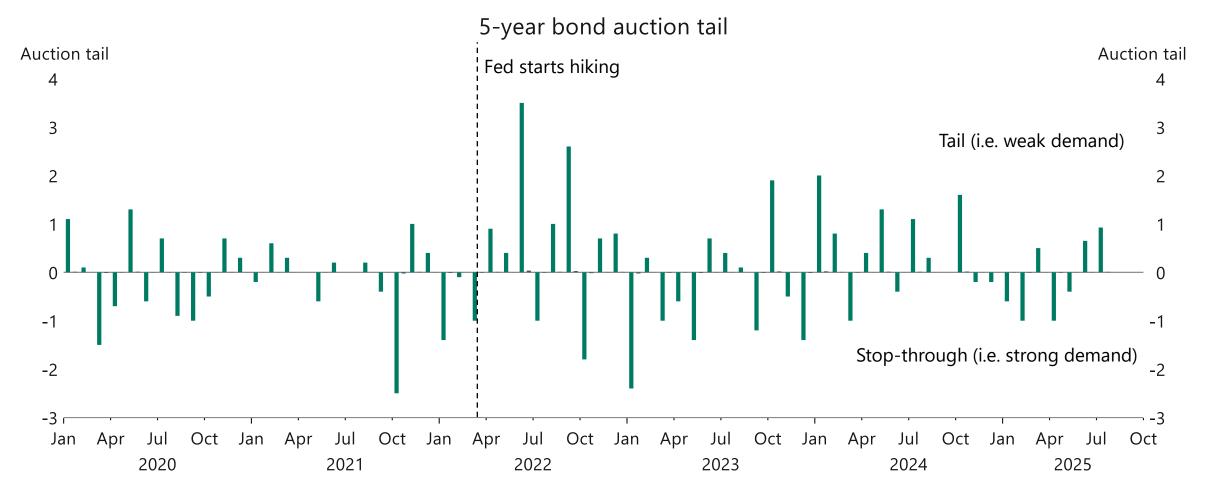
Source: US Treasury, Bloomberg, Macrobond, Apollo Chief Economist



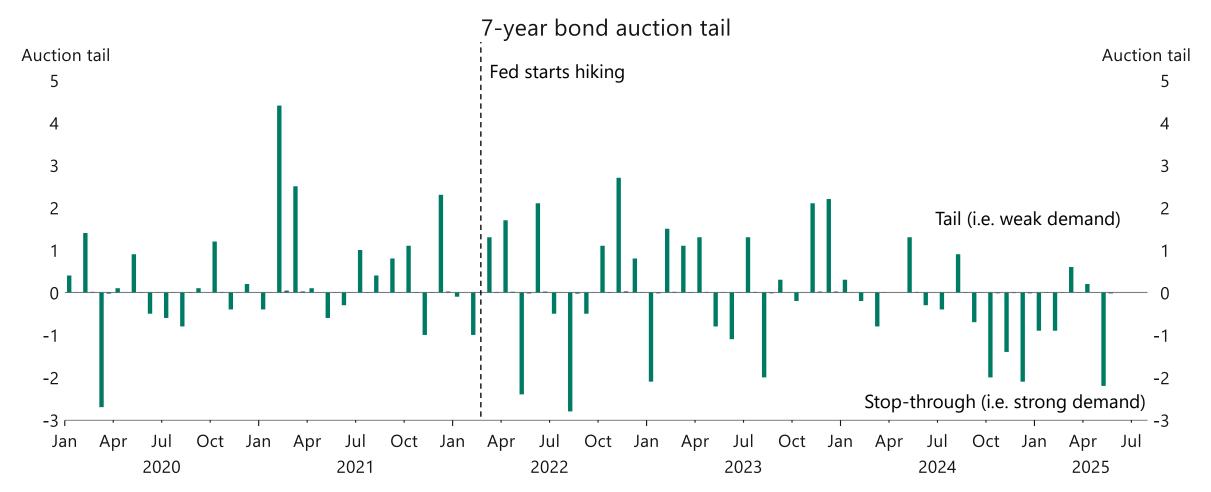
Source: Bloomberg, Macrobond, Apollo Chief Economist. Note: Bloomberg ticker USB2YTL Index.



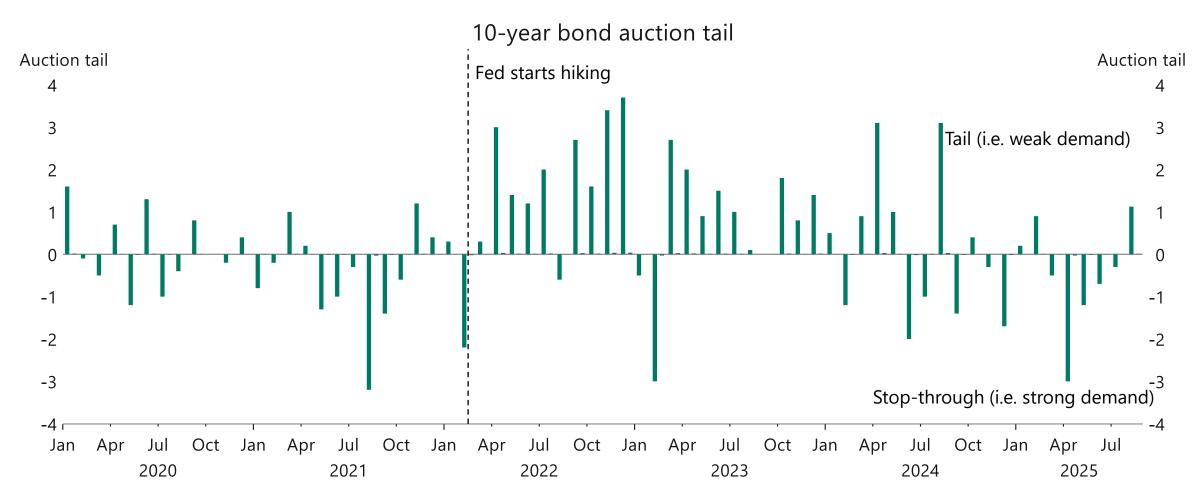
Source: Bloomberg, Macrobond, Apollo Chief Economist. Note: Bloomberg ticker USN3YTL Index.



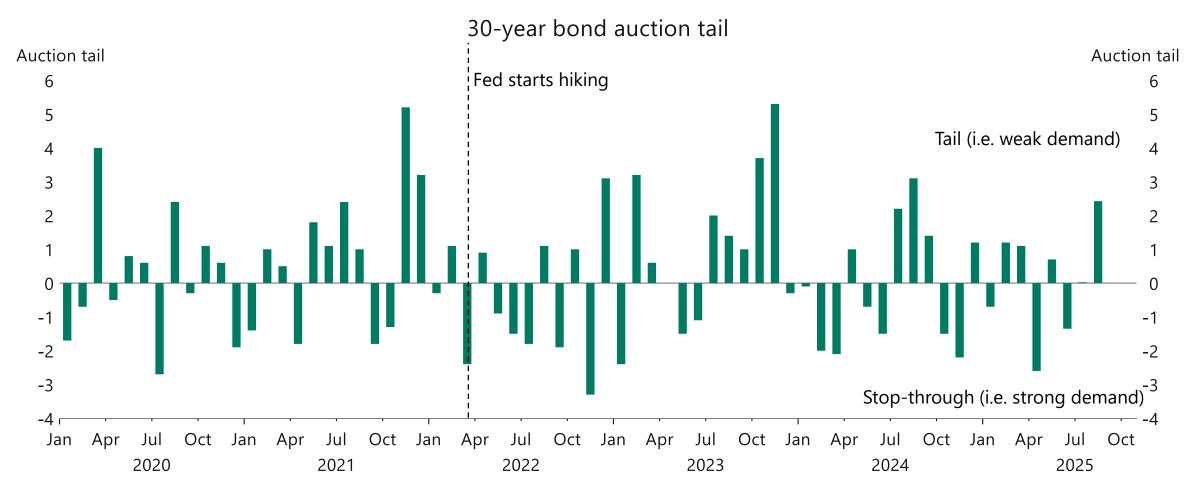
Source: Bloomberg, Macrobond, Apollo Chief Economist. Note: Bloomberg ticker USB5YTL Index.



Source: Bloomberg, Macrobond, Apollo Chief Economist. Note: Bloomberg ticker USB7YTL Index.

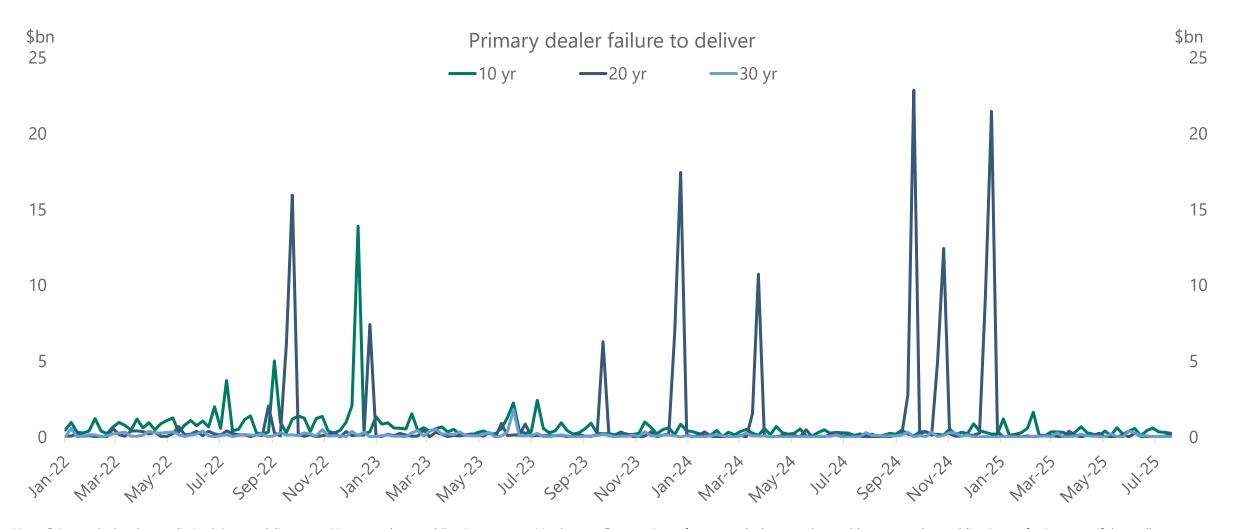


Source: Bloomberg, Macrobond, Apollo Chief Economist. Note: Bloomberg ticker USN10YTL Index.



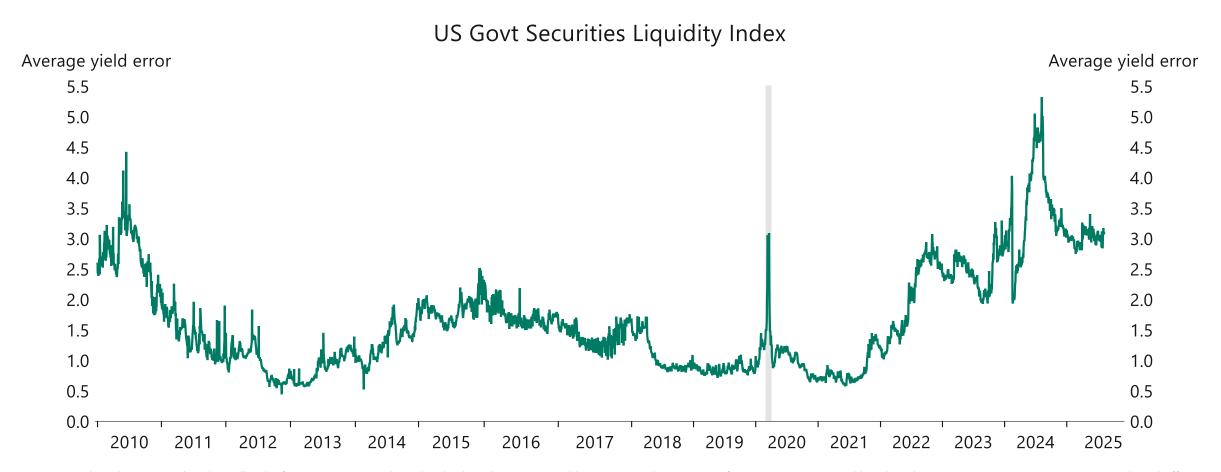
Source: Bloomberg, Macrobond, Apollo Chief Economist. Note: Bloomberg ticker USBD30TL Index.

Primary dealer failure to deliver Treasuries



Note: Primary dealers have a limited time to deliver securities to settle any obligations to securities buyers. For a variety of reasons, dealers may be unable to meet these obligations—for instance, if they sell a security short that they do not own and are then unable to obtain the security for delivery. The unmet obligation to a buyer is recorded as a failure to deliver. Source: OFR, FRBNY, Apollo Chief Economist

Liquidity in the Treasury market

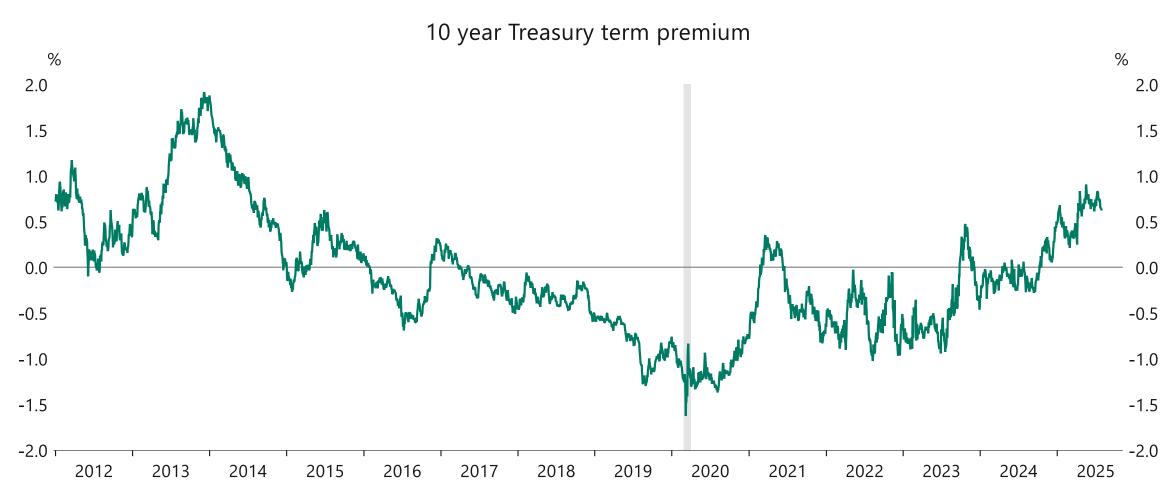


Source: Bloomberg, Macrobond, Apollo Chief Economist. Note: The index displays the average yield error across the universe of government notes and bonds with remaining maturity 1-year or greater, based off the intra-day Bloomberg relative value curve fitter. When liquidity conditions are favorable the average yield error is defined as an aggregate measure for dislocations in Treasury securities across the curve.

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The term premium

The term premium is rising likely driven by fiscal worries



Source: Federal Reserve Bank of New York, Macrobond, Apollo Chief Economist. Note: Note: The NY Fed measure for the term premium is based on a five-factor, no-arbitrage term structure model.

10-year Treasury yield decoupling from oil prices



Source: Bloomberg, Macrobond, Apollo Chief Economist

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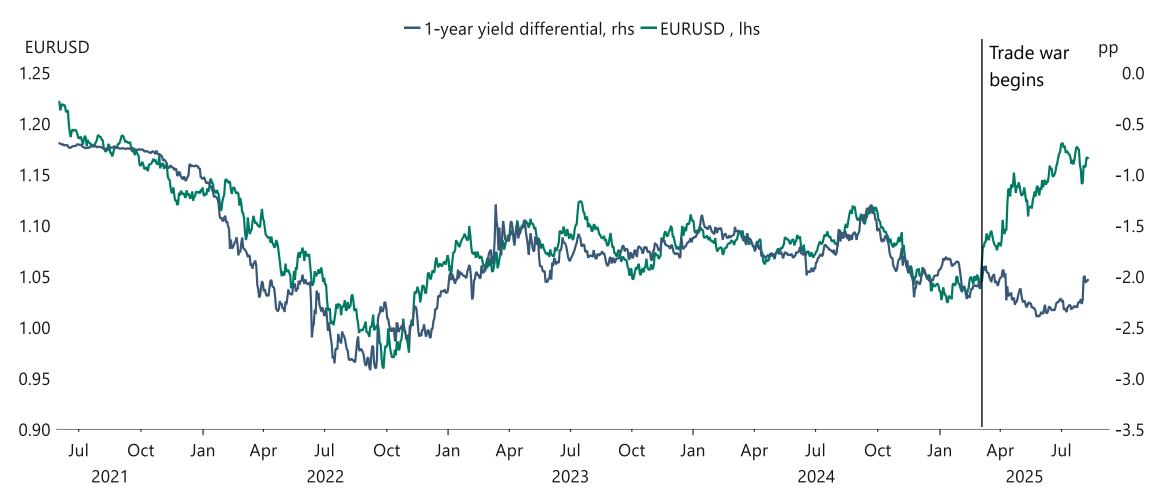
The dollar

Characteristics of a reserve currency

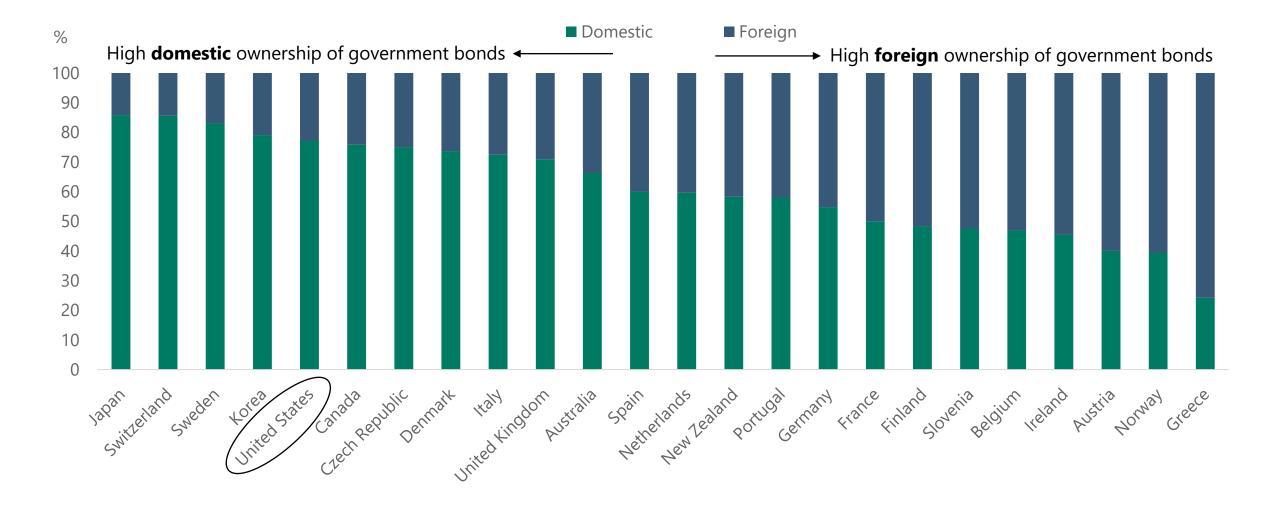
- The size of the domestic economy,
- The importance of the economy in international trade,
- The size, depth, and openness of financial markets,
- The convertibility of the currency,
- The use of the currency as a currency peg, and
- Domestic macroeconomic policies

Source: US Treasury, Apollo Chief Economist

Since the trade war started, EURUSD has been driven by other factors than interest rate differentials

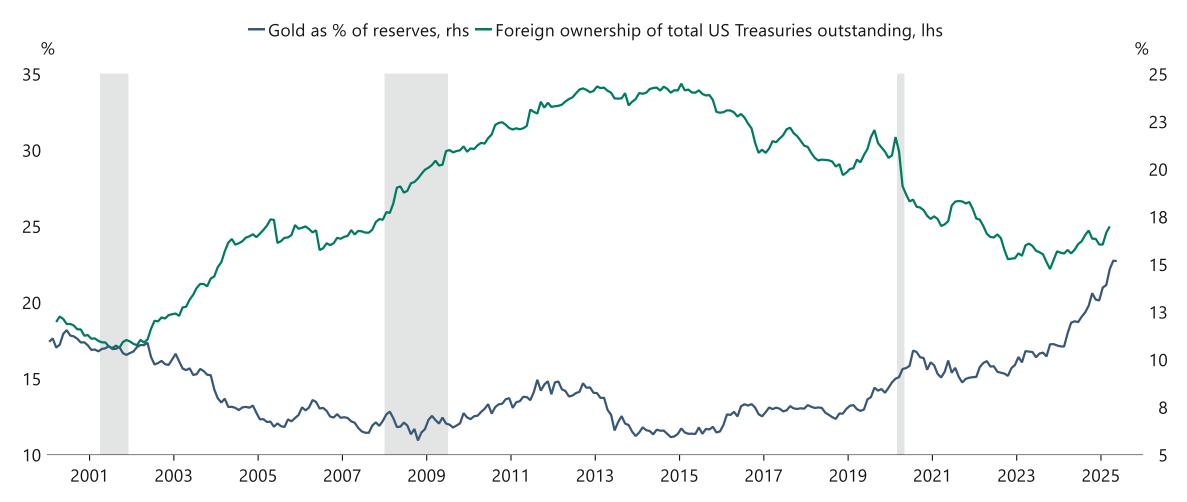


Japan, Switzerland, Korea, and US have high domestic ownership of government bonds



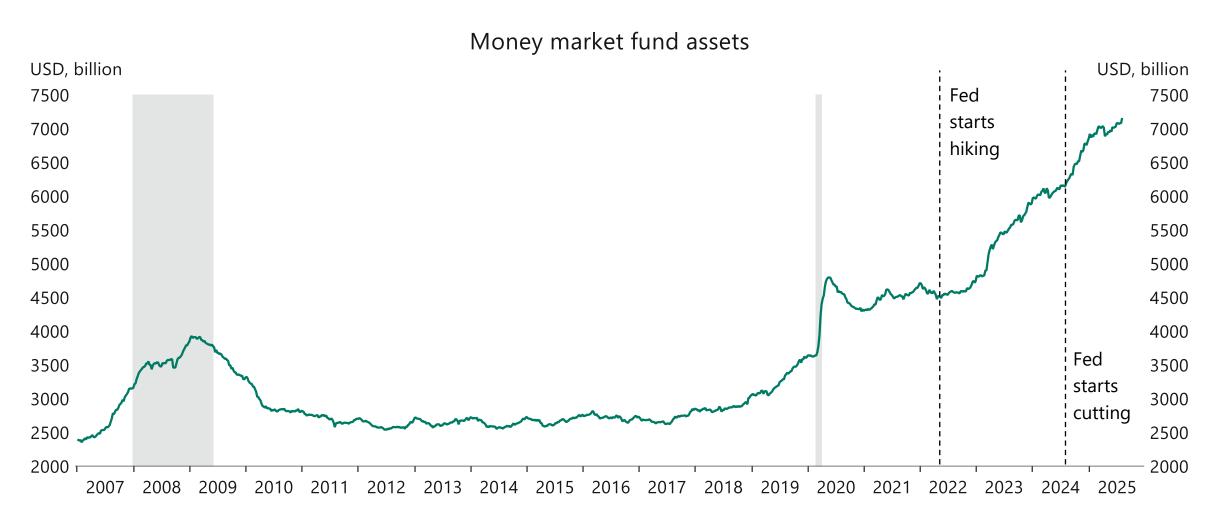
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Gold reserves rising. Sanctions likely playing a role.



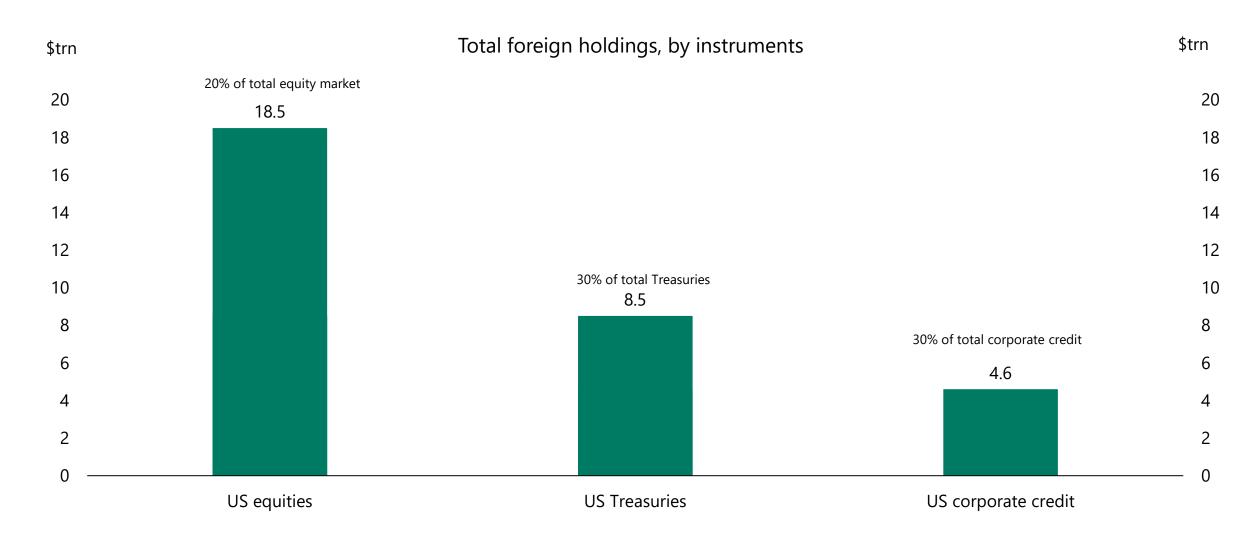
Source: U.S. Department of Treasury, International Monetary Fund (IMF), Macrobond, Apollo Chief Economist

What will happen to money market fund assets as the Fed cuts interest rates?



Source: Investment Company Institute (ICI), Macrobond, Apollo Chief Economist

Total foreign holdings of US equities, Treasuries, and US credit



Source: Federal Reserve, MacroBond, 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 at Deutsche Bank where his team was top ranked in the annual Institutional Investor survey for a decade. Prior to joining Deutsche Bank Mr. Slok worked at the IMF in Washington, DC and at the OECD in Paris.

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