APOLLO

Outlook for China: Housing deflating, demographics deteriorating, and exports slowing

Torsten Slok, Rajvi Shah, and Shruti Galwankar tslok@apollo.com

Apollo Global Management

June 2025

Legal Disclaimer

Unless otherwise noted, information included herein is presented as of the dates indicated. Apollo Global Management, Inc. (together with its subsidiaries, "Apollo") makes no representation or warranty, expressed or implied, with respect to the accuracy, reasonableness, or completeness of any of the information contained herein, including, but not limited to, information obtained from third parties. Opinions, estimates and projections constitute the current judgment of the author as of the date indicated. They do not necessarily reflect the views and opinions of Apollo and are subject to change at any time without notice. Apollo does not have any responsibility to update the information to account for such changes. Hyperlinks to third-party websites in these materials are provided for reader convenience only. There can be no assurance that any trends discussed herein will continue.

The information contained herein is not intended to provide, and should not be relied upon for, accounting, legal or tax advice and does not constitute an investment recommendation or investment advice. Investors should make an independent investigation of the information contained herein, including consulting their tax, legal, accounting or other advisors about such information. Apollo does not act for you and is not responsible for providing you with the protections afforded to its clients.

Certain information contained herein may be "forward-looking" in nature. Due to various risks and uncertainties, actual events or results may differ materially from those reflected or contemplated in such forward-looking information. As such, undue reliance should not be placed on such information. Forward-looking statements may be identified by the use of terminology including, but not limited to, "may", "will", "should", "expect", "anticipate", "target", "project", "estimate", "intend", "continue" or "believe" or the negatives thereof or other variations thereon or comparable terminology.



1) Trade war weighing on Chinese growth

2) Housing slowing down

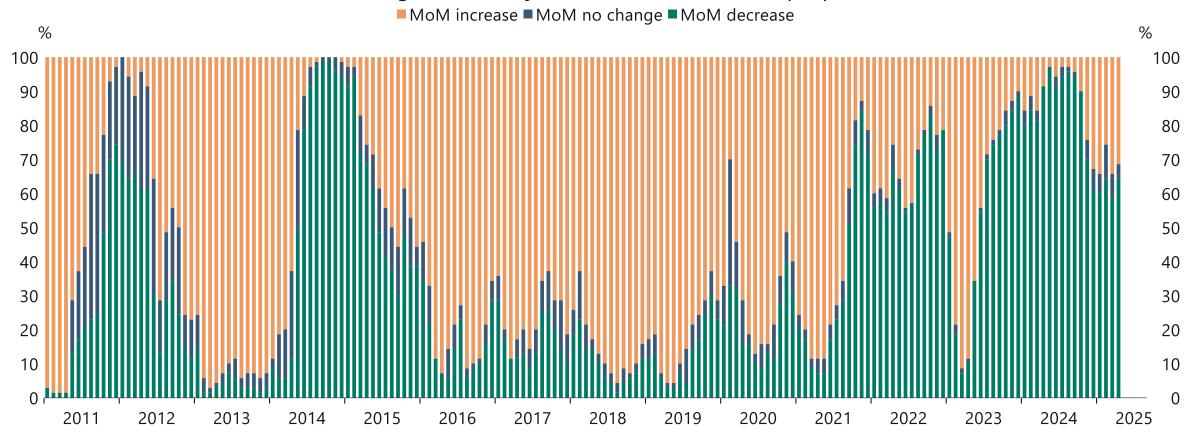
3) Demographic headwinds

Source: Apollo Chief Economist

China: Overview

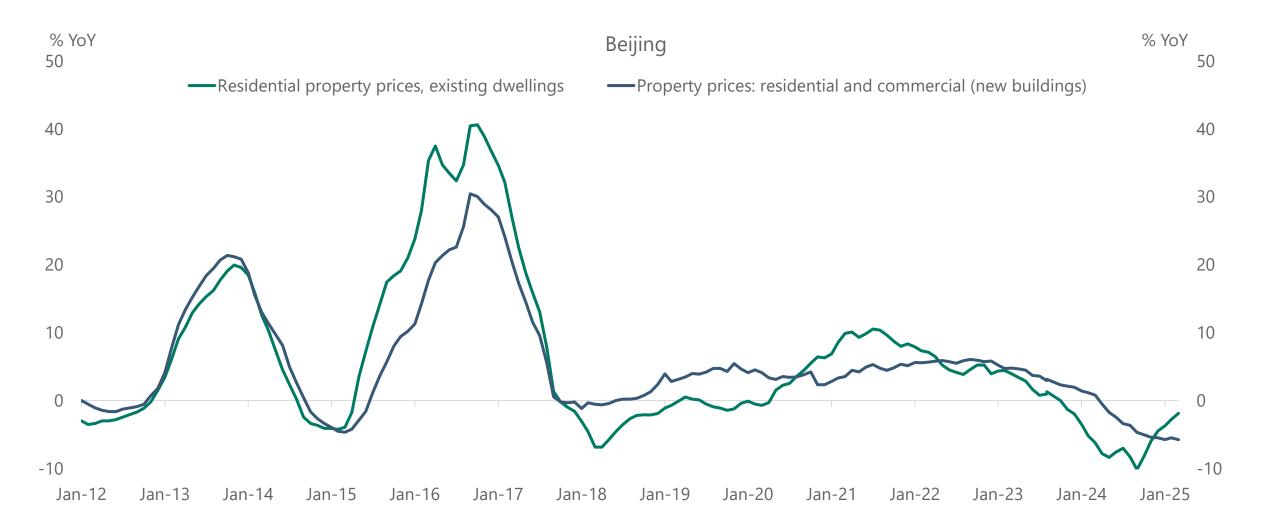
Housing market cooling in China

Price changes in 70 major cities (new residential properties)



Source: Bloomberg, Macrobond, Apollo Chief Economist

Beijing home prices falling



Source: BIS, Haver, Apollo Chief Economist

China: New home prices



Source: Bloomberg, Macrobond, Apollo Chief Economist

/

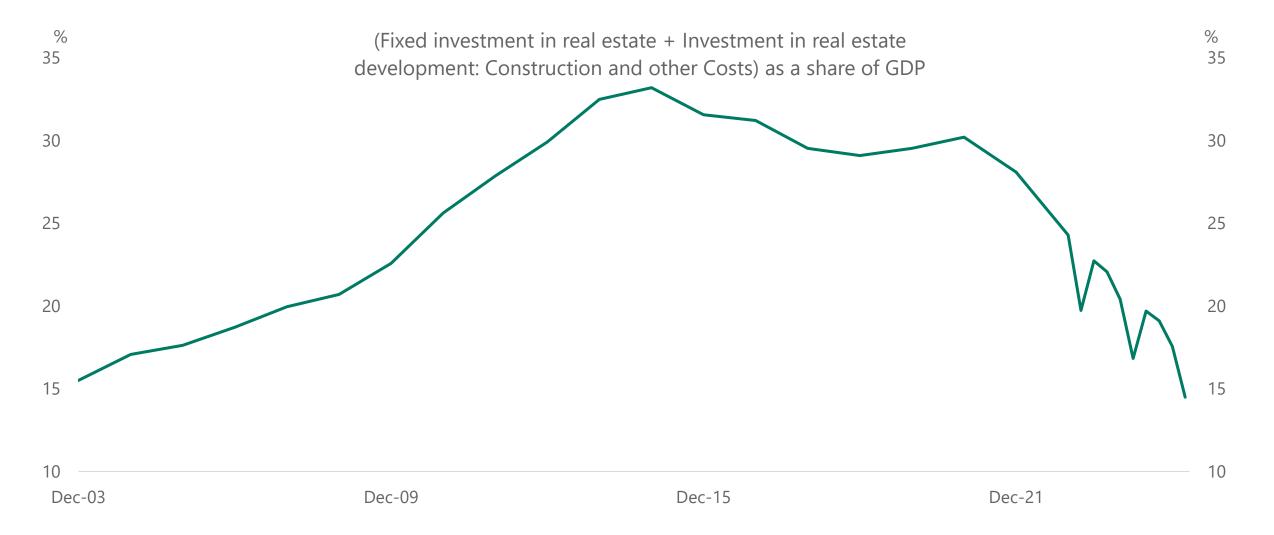
China: Used home prices



Source: Bloomberg, Macrobond, Apollo Chief Economist

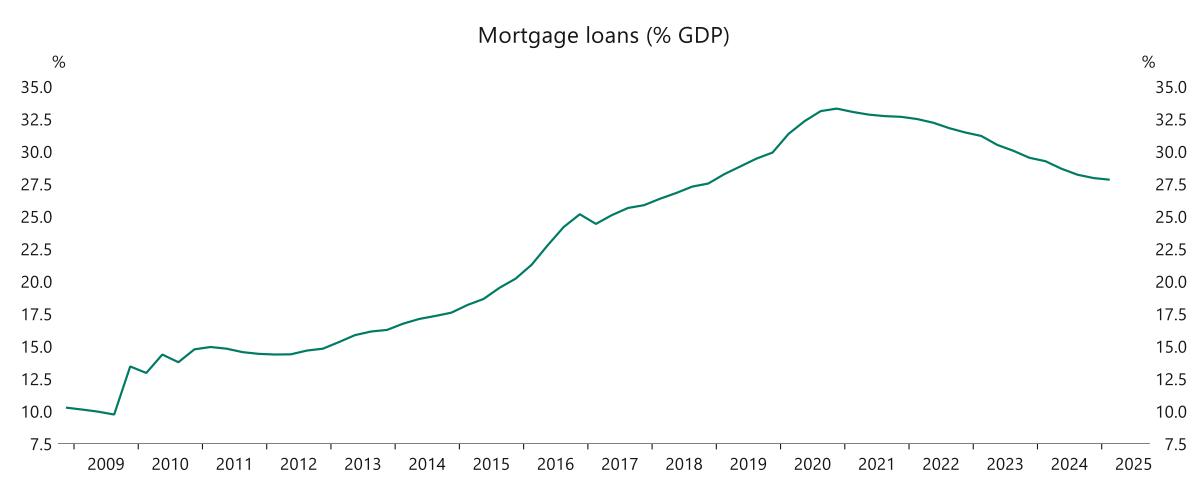
8

China: The deflating housing bubble is having a negative impact on GDP



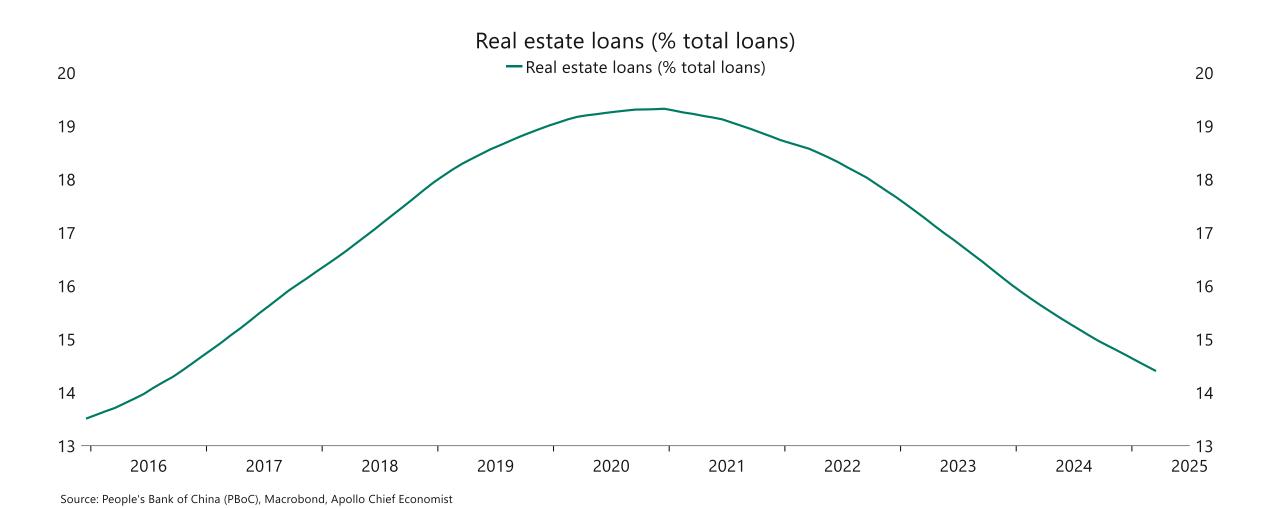
Source: Haver, Apollo Chief Economist. (Data as of Q3 2023)

China's mortgage liabilities as a share of GDP

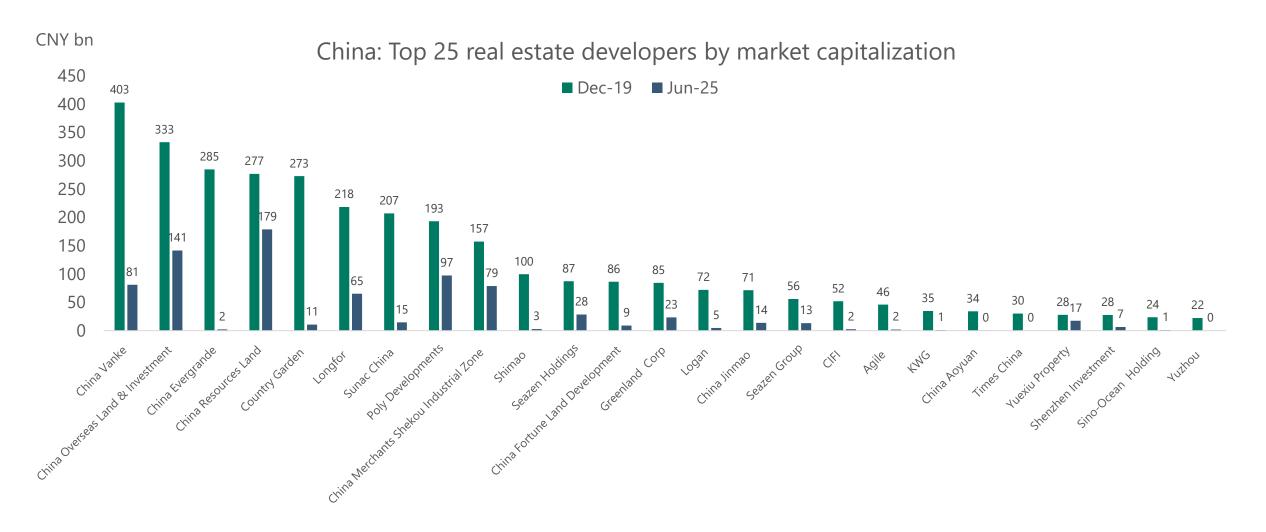


Source: China NBS, PBoC, Macrobond, Apollo Chief Economist

Real estate loans making up a smaller part of total lending by financial institutions



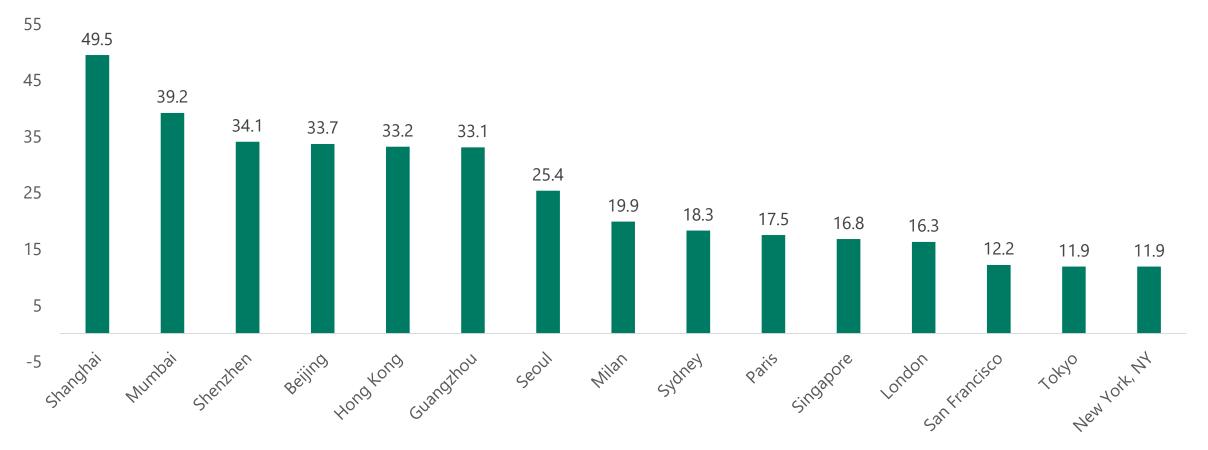
China: Market capitalization of real estate developers has declined significantly



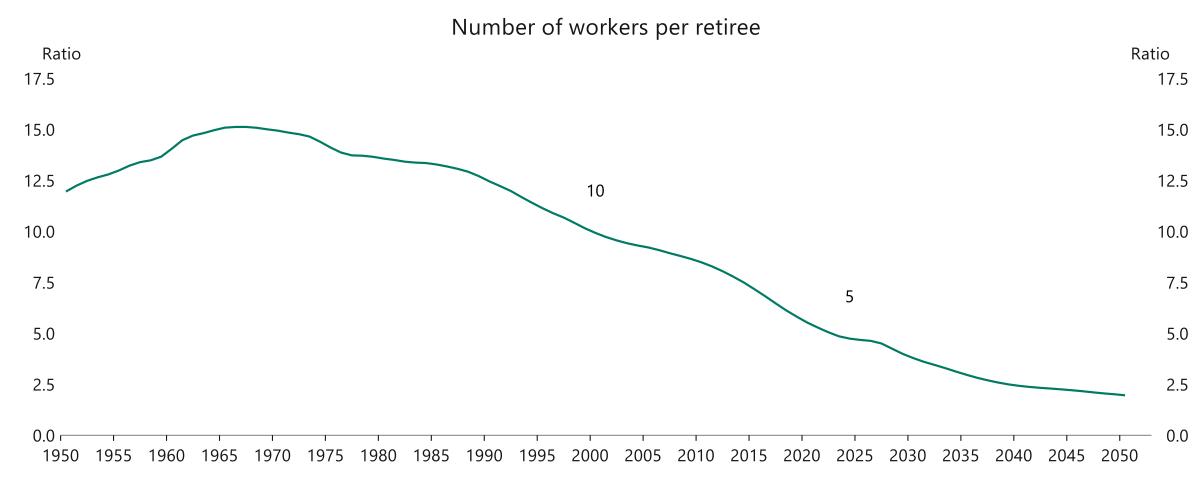
Source: Bloomberg, Apollo Chief Economist. (Data as of June 2024)

Home price-to-income ratio four times higher in Shanghai than in New York





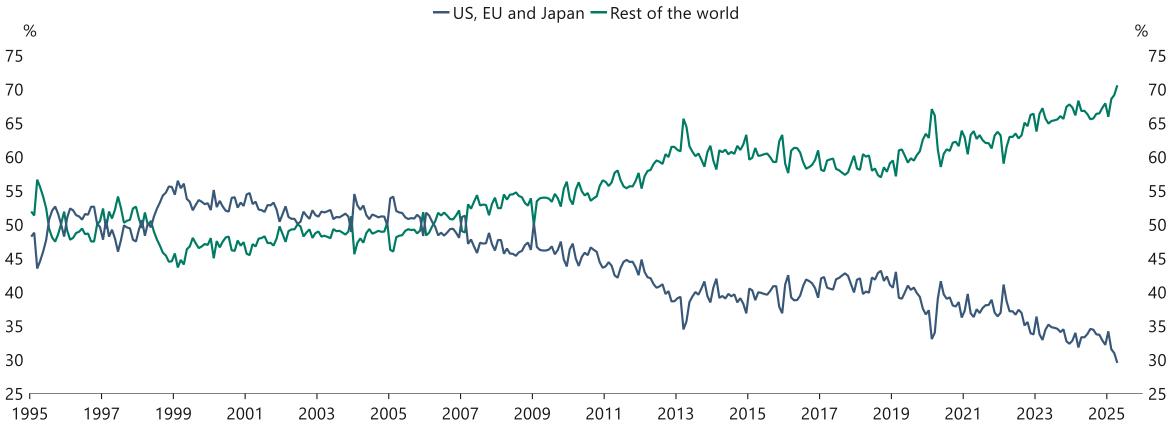
China: In 2000 there were 10 workers per retiree. Today there are 5.



Source: United Nations Trade & Development, Macrobond, Apollo Chief Economist

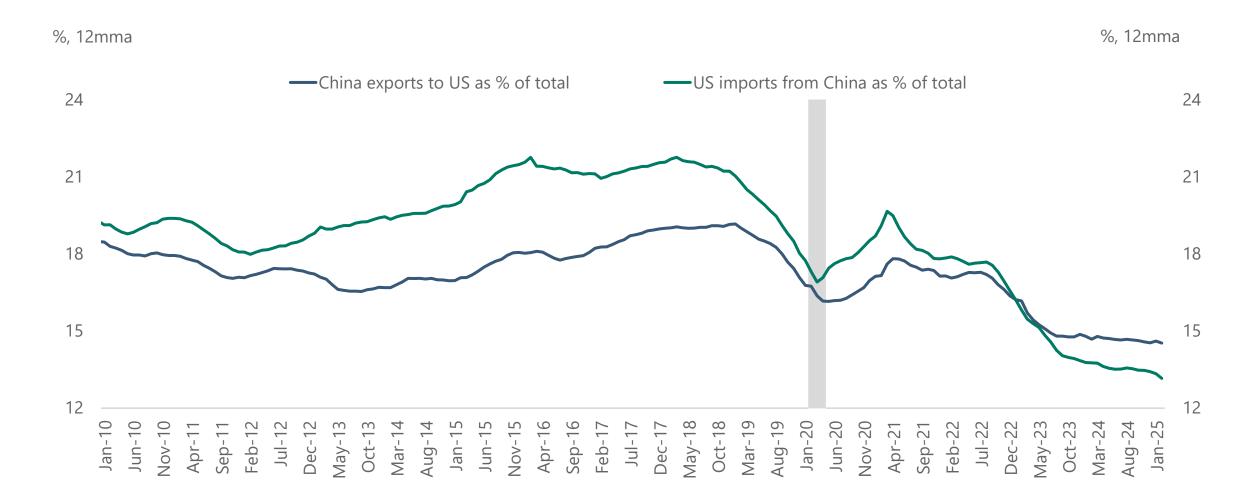
Chinese share of exports to US, EU, and Japan declining

Share of Chinese exports to:



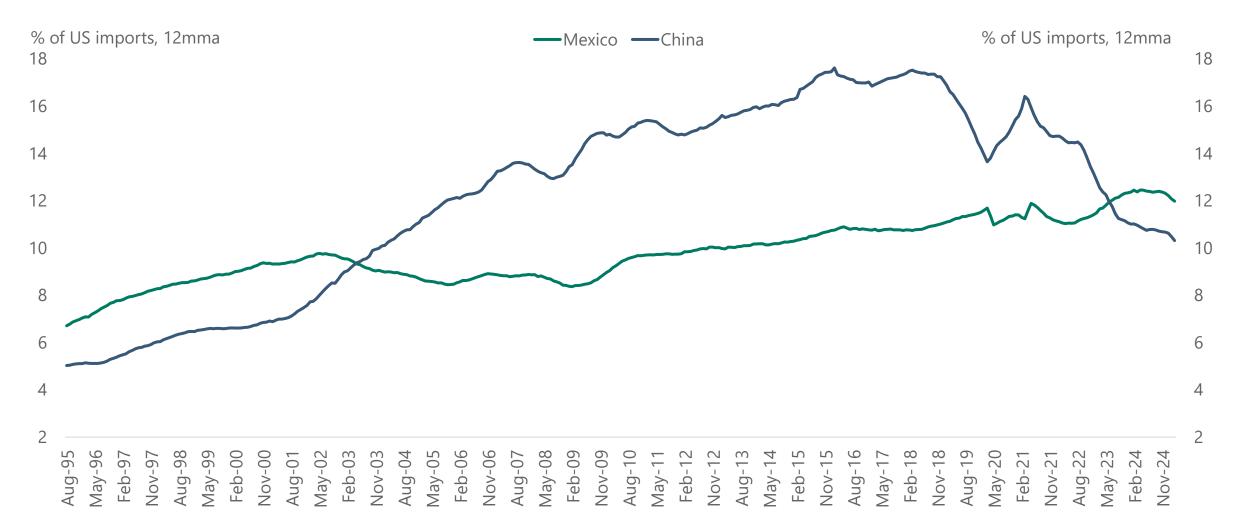
Source: China General Administration of Customs (GAC), Macrobond, Apollo Chief Economist

US and China less dependent on each other for trade

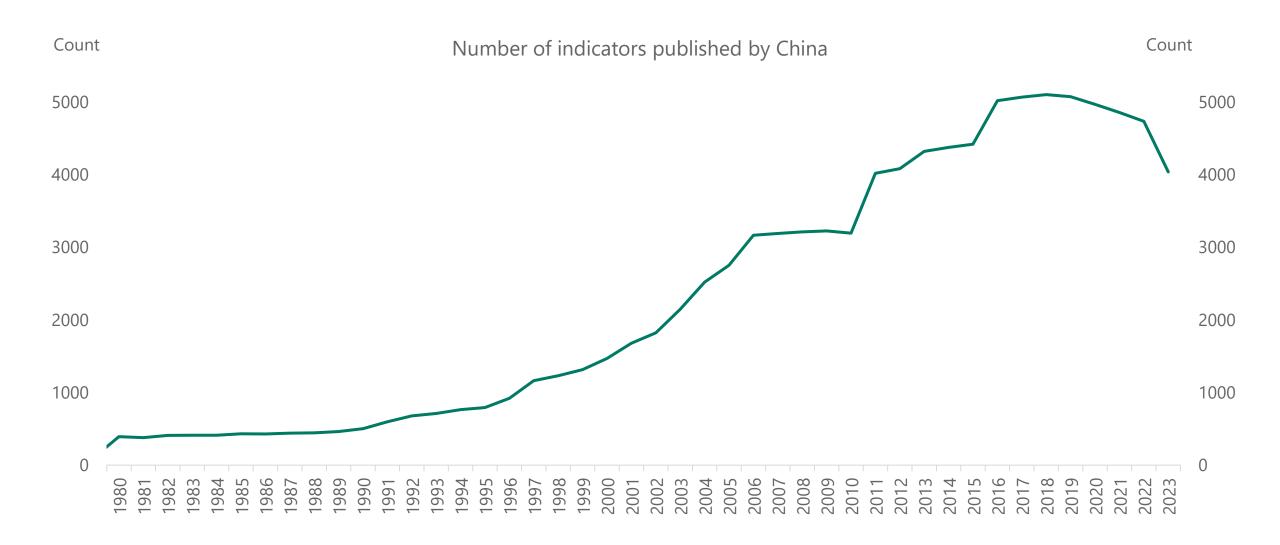


Source: IMF, Bloomberg, Apollo Chief Economist

US now importing more from Mexico than China



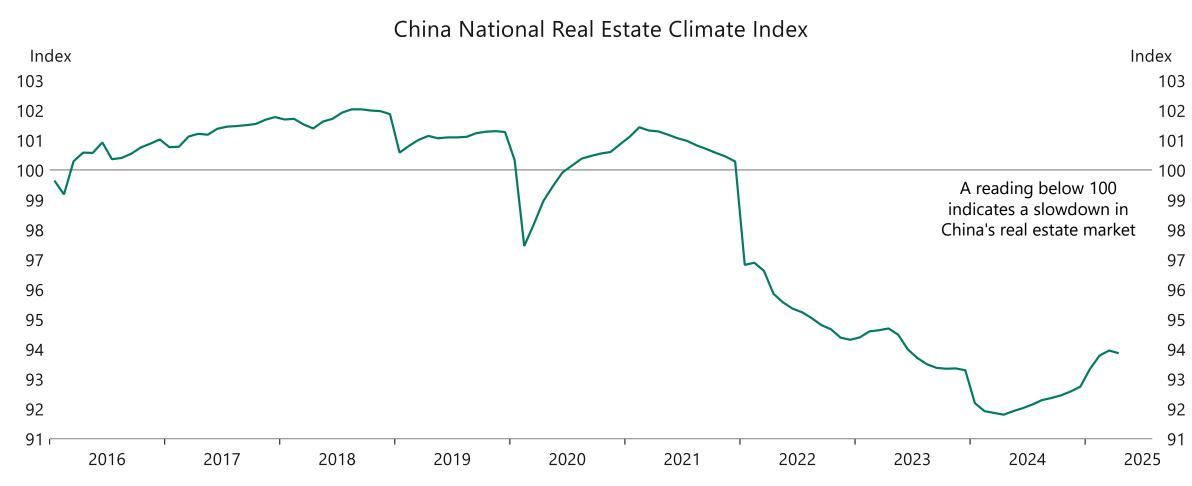
The number of economic indicators published by China



APOLLO

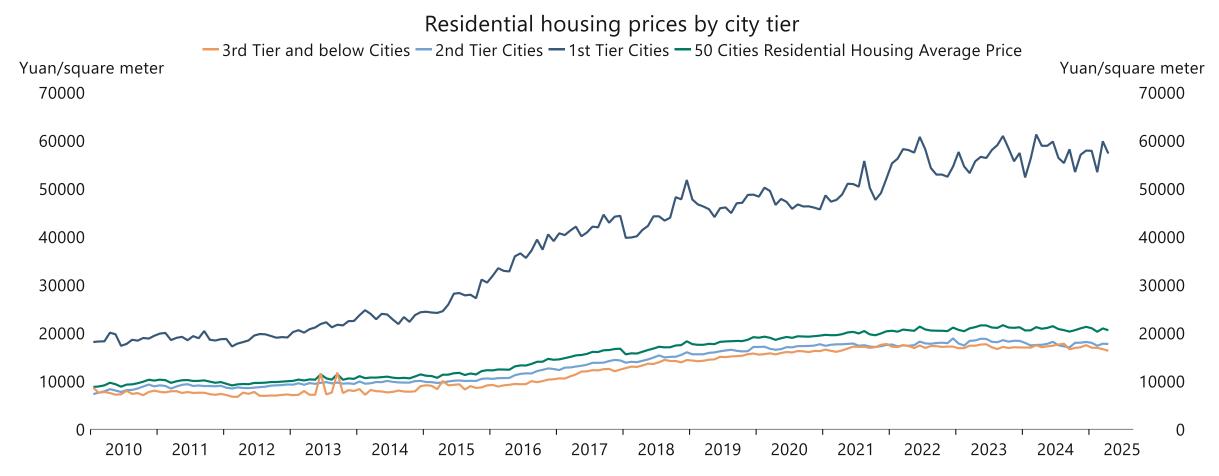
China: Housing bubble is deflating

China real estate index in recession territory



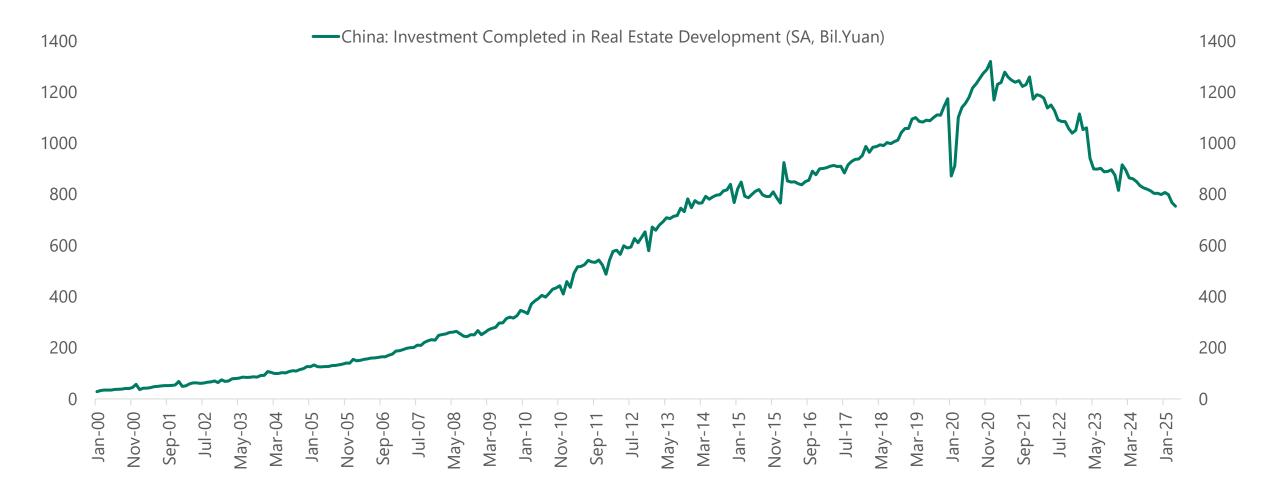
Source: China National Bureau of Statistics (NBS), Macrobond, Apollo Chief Economist

Homes cost three to four times more in Tier 1 cities than in Tier 2 and Tier 3 cities



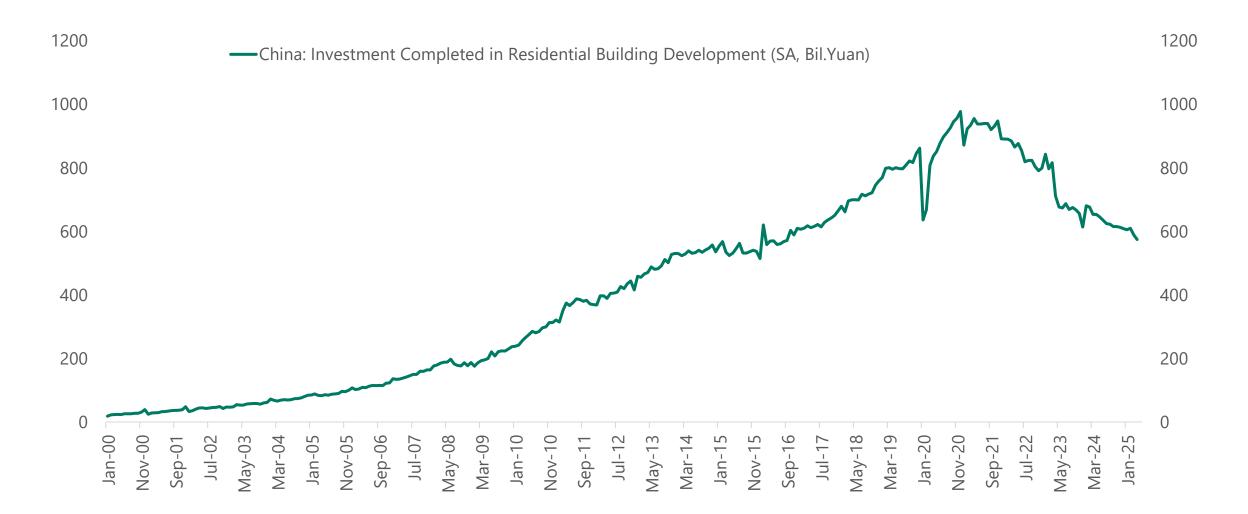
Source: Bloomberg, Macrobond, Apollo Chief Economist

China: Real estate investment slowing



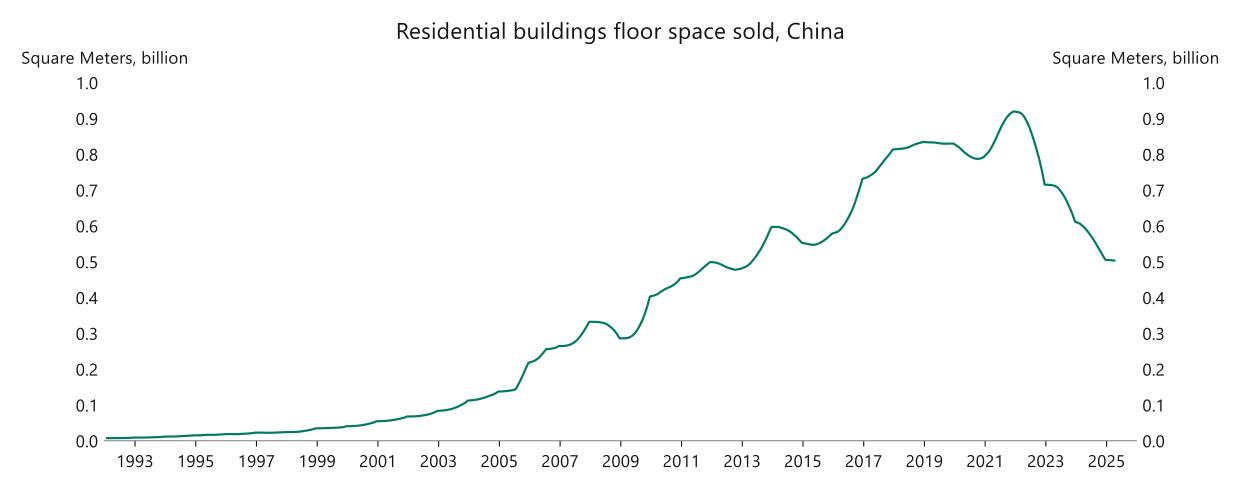
Source: Haver, Apollo Chief Economist

Residential real estate investment slowing



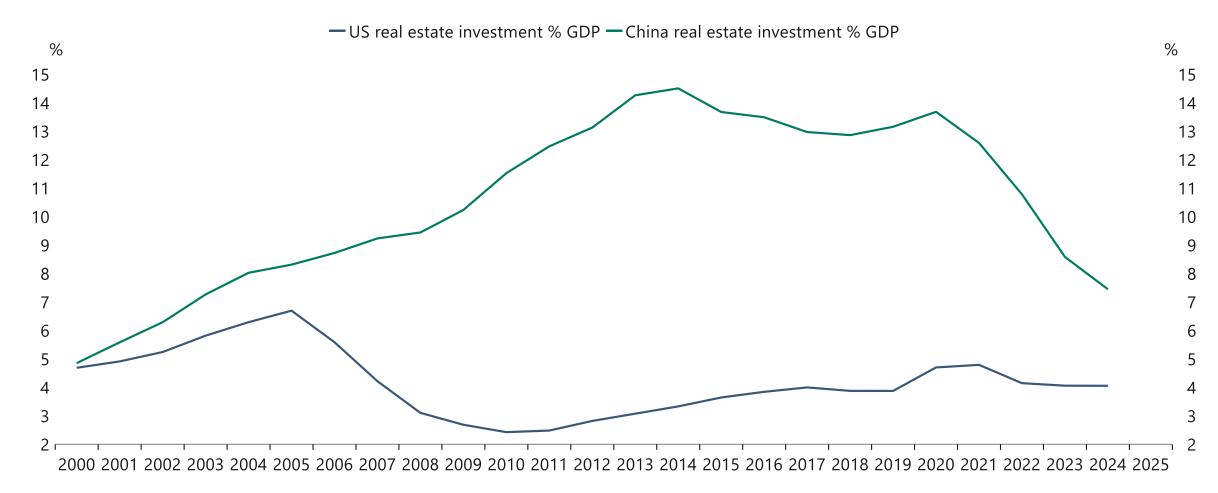
Source: Haver, Apollo Chief Economist

China residential transactions falling



Source: China National Bureau of Statistics (NBS), Macrobond, Apollo Chief Economist

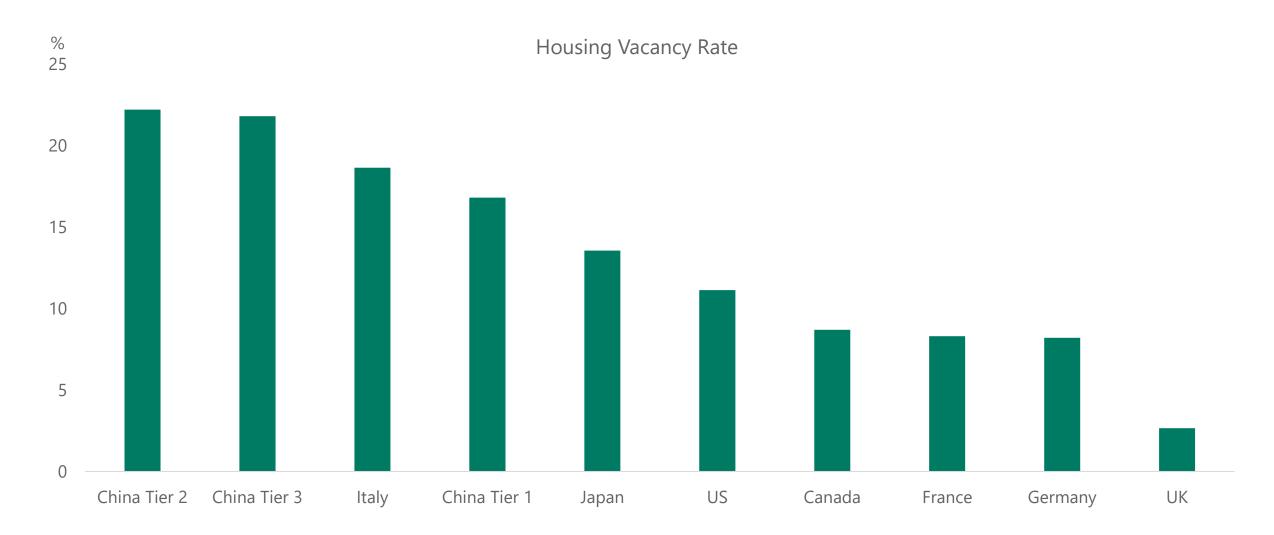
A sharp drop in real estate investment in China



Source: Bloomberg, Macrobond, Apollo Chief Economist

Source: Bloomberg, Apollo Chief Economist.

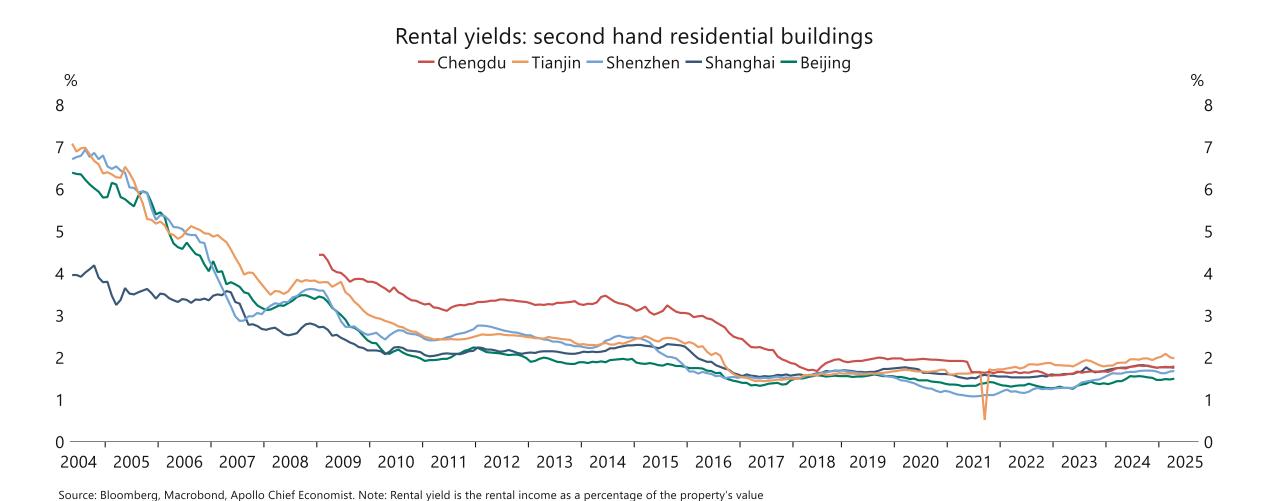
Average Chinese vacancy rates higher than in G7 countries



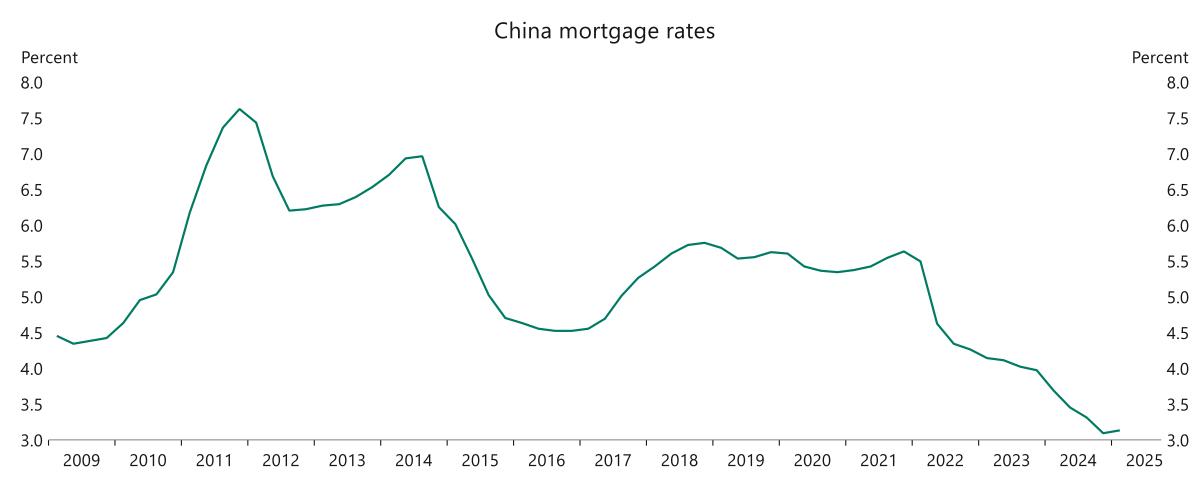
Home sales low in Tier 1 and Tier 2 cities



Rental yields at second hand residential buildings coming down in major cities

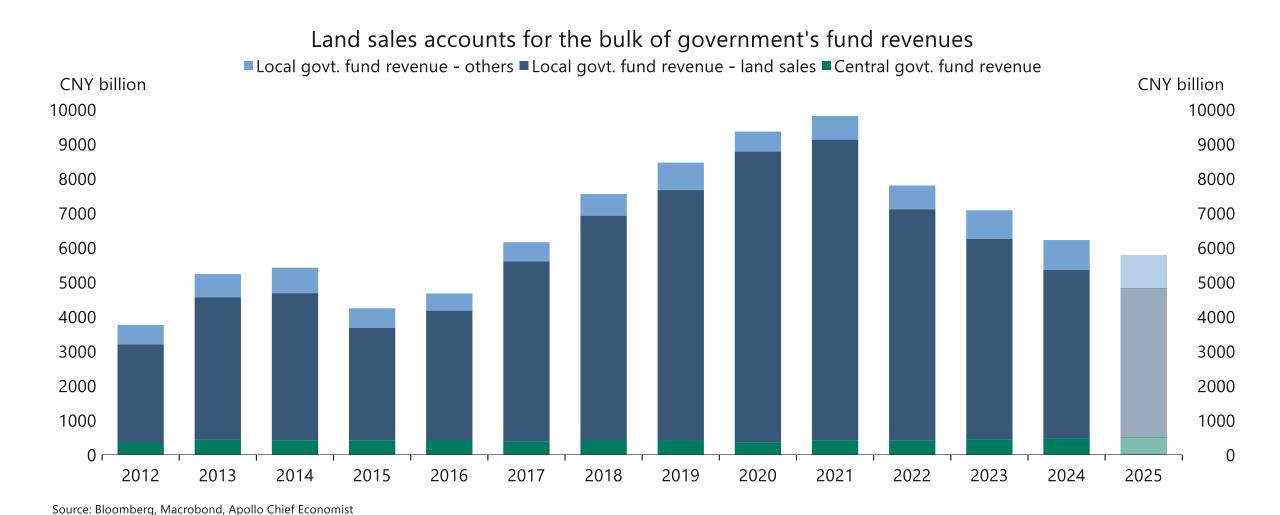


China: Mortgage rates have declined to lowest levels since 2009



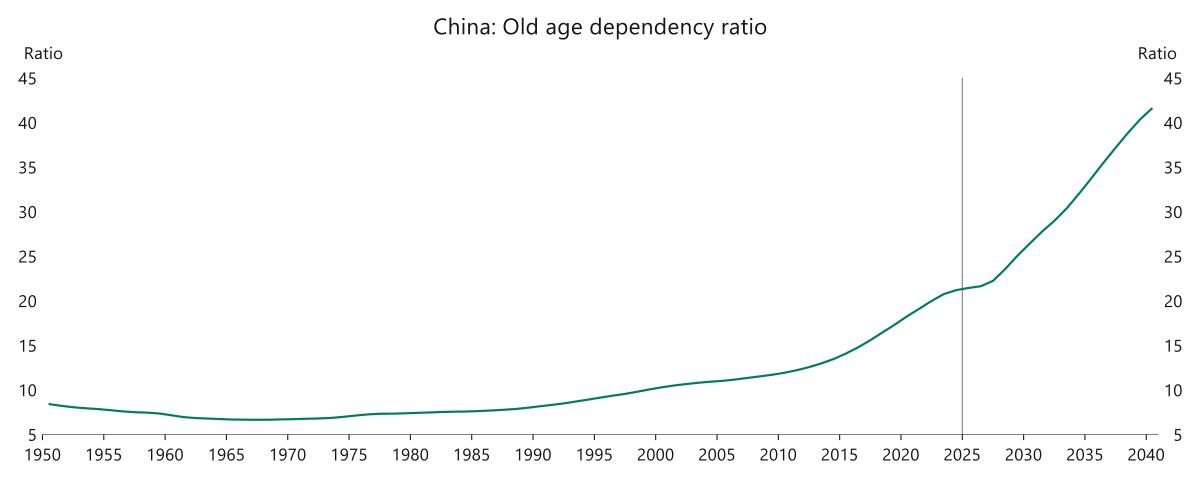
Source: People's Bank of China (PBoC), Macrobond, Apollo Chief Economist

Land sales are a crucial source of local government revenue



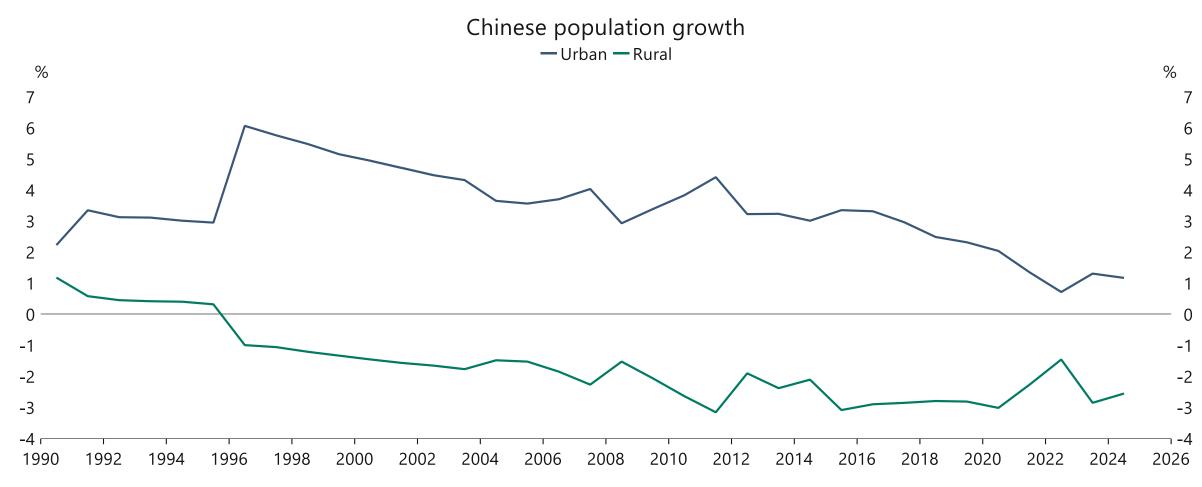
China: Demographics

China has an old age dependency problem



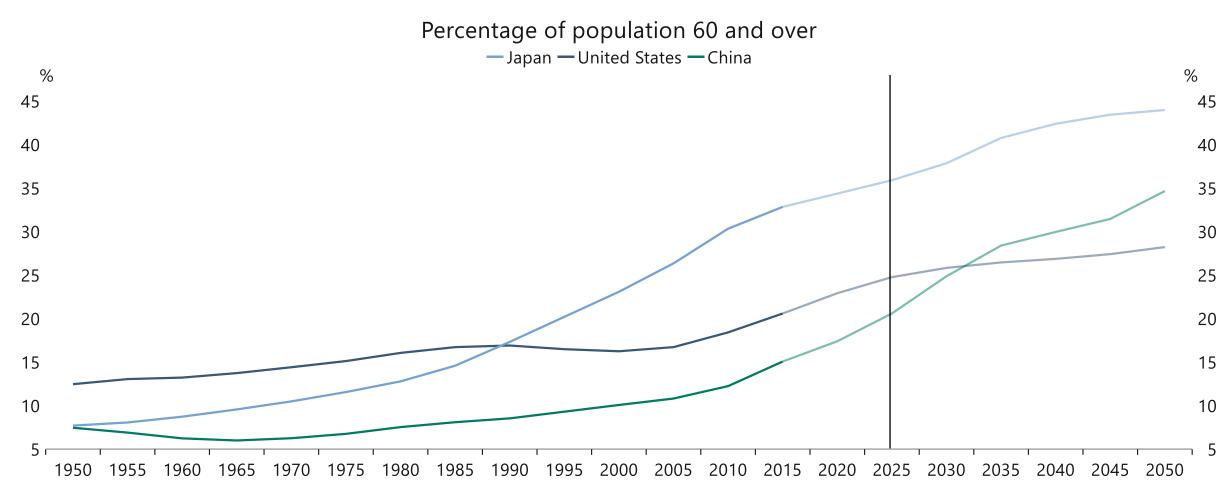
Source: United Nations Trade & Development, Macrobond, Apollo Chief Economist

Population growth slowing



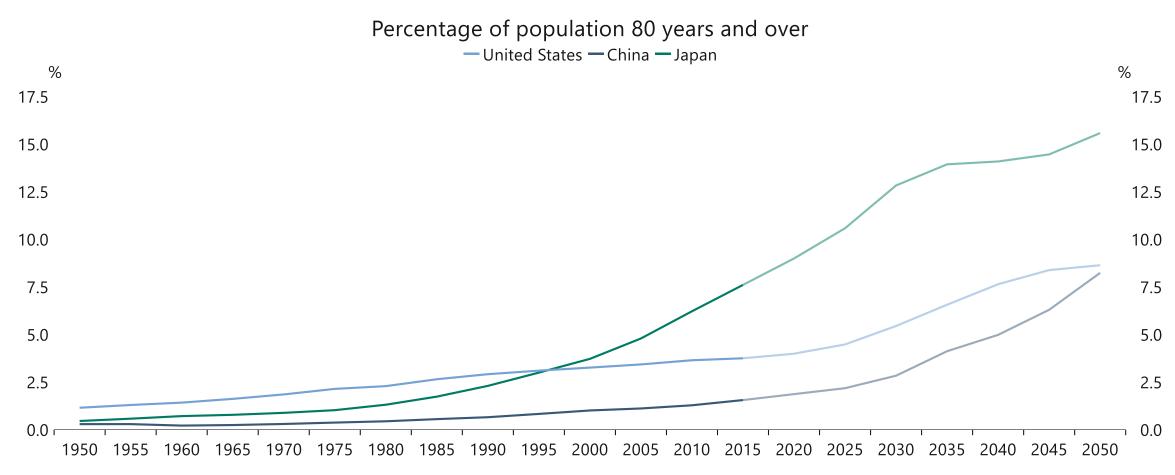
Source: China National Bureau of Statistics (NBS), Macrobond, Apollo Chief Economist

China aging faster than the US



Source: United Nations Department of Economic & Social Affairs (UNDESA), Macrobond, Apollo Chief Economist

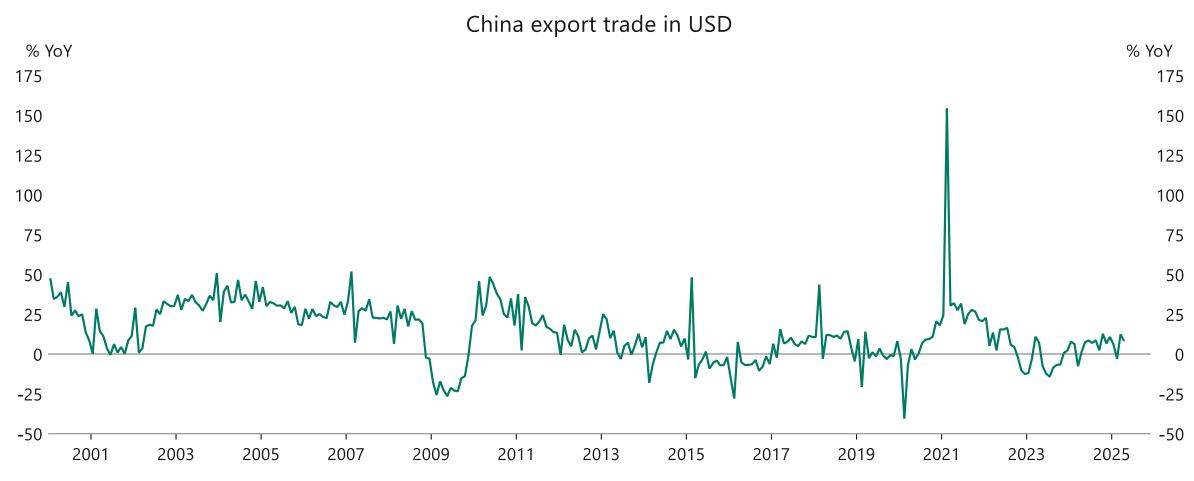
China demographics better than Japan's



Source: United Nations Department of Economic & Social Affairs (UNDESA), Macrobond, Apollo Chief Economist

China: Exports slowing

China: Exports shifting away from US and Europe to other emerging markets

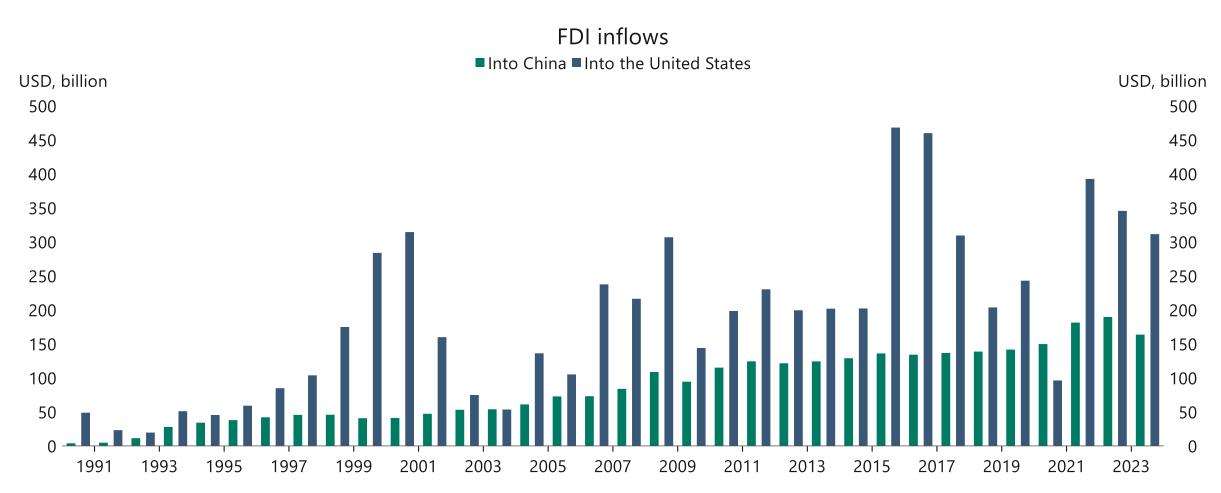


Source: China General Administration of Customs (GAC), Macrobond, Apollo Chief Economist

US-China trade deficit



China and US: Comparing foreign direct investment



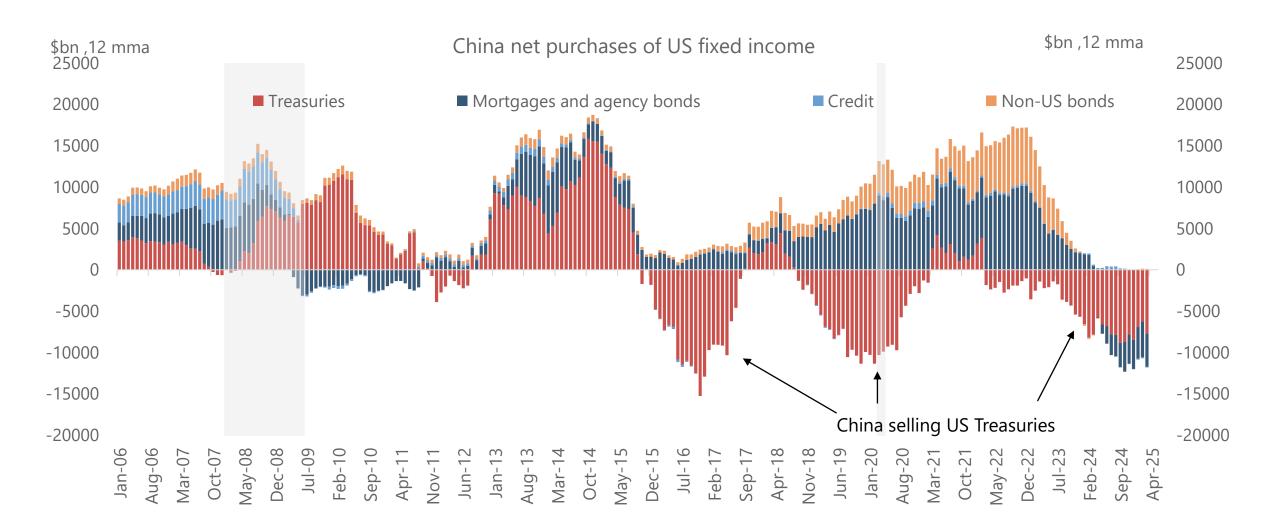
Source: United Nations Food & Agriculture Organization (FAO), Macrobond, Apollo Chief Economist

China holding \$500bn less in US Treasuries than in 2021



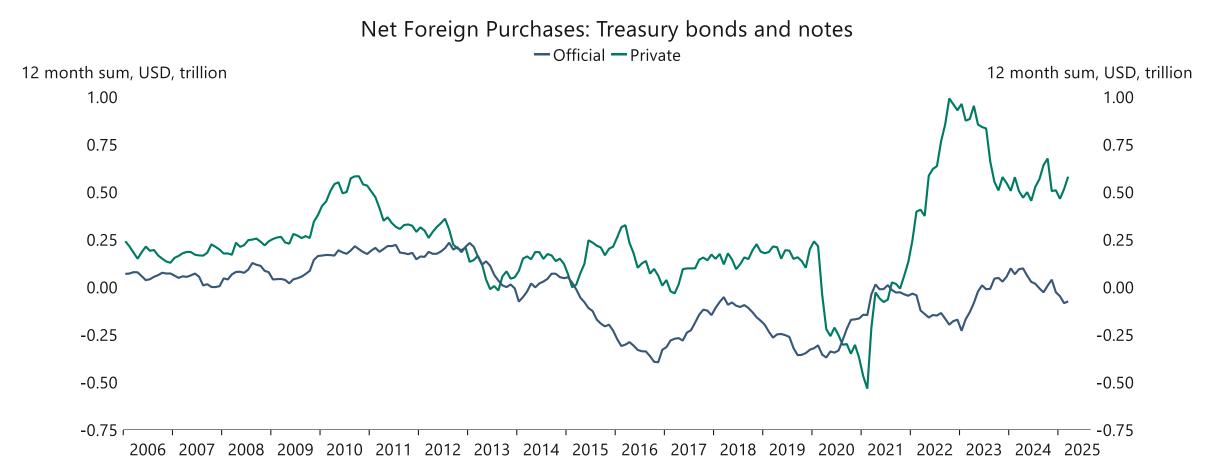
Source: U.S. Department of Treasury, Macrobond, Apollo Chief Economist

China is selling Treasuries and mortgages



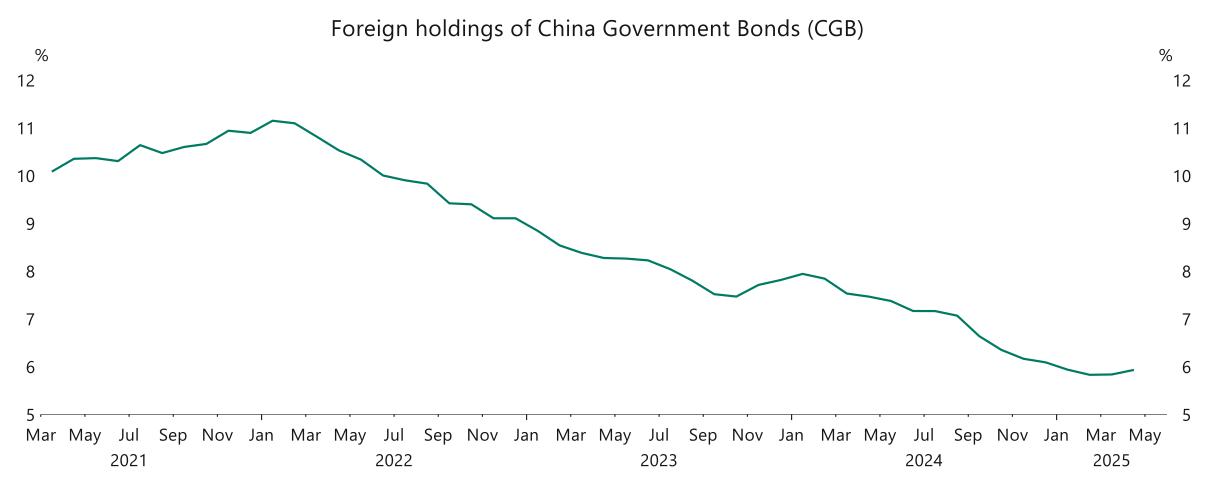
Source: Treasury, Haver Analytics, Apollo Chief Economist

Foreign demand for US Treasuries is coming from private buyers



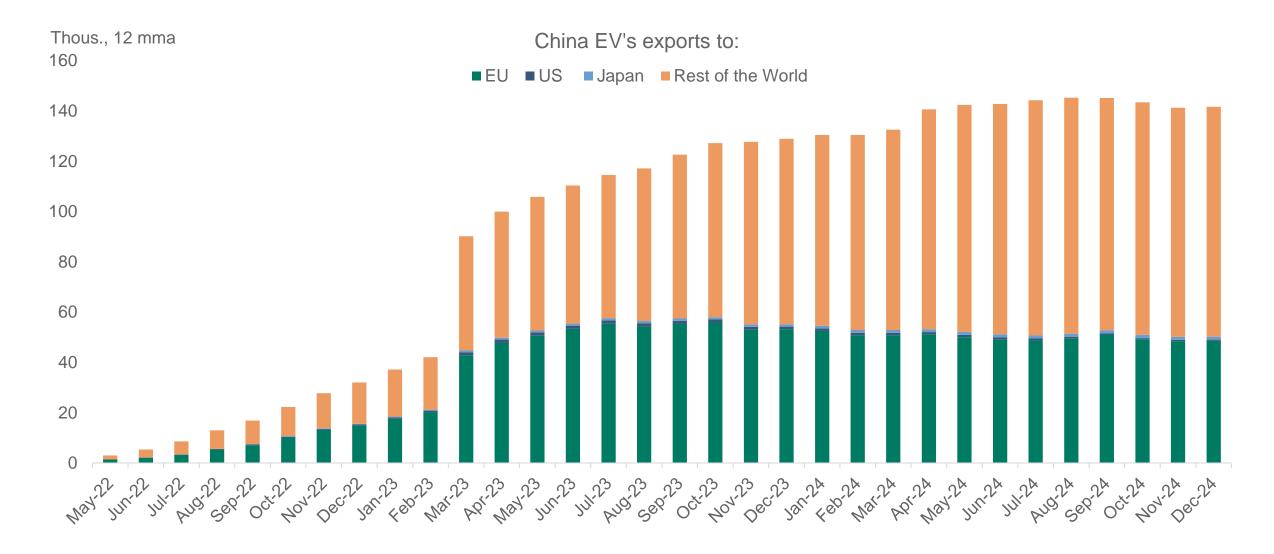
Source: U.S. Department of Treasury, Macrobond, Apollo Chief Economist

Foreign holdings of Chinese government bonds



Source: ChinaBond, affiliated to China Central Depository & Clearing Co., Ltd., Macrobond, Apollo Chief Economist

Europe is a big market for Chinese EVs

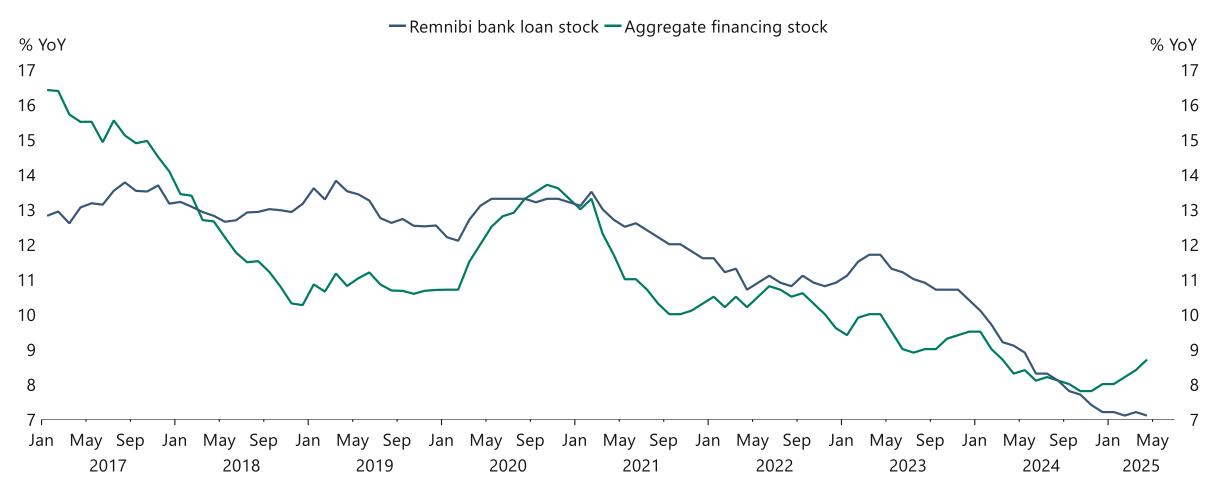


Source: China customs data, Bloomberg, Apollo Chief Economist

APOLLO

China: Credit growth and debt levels

China credit growth



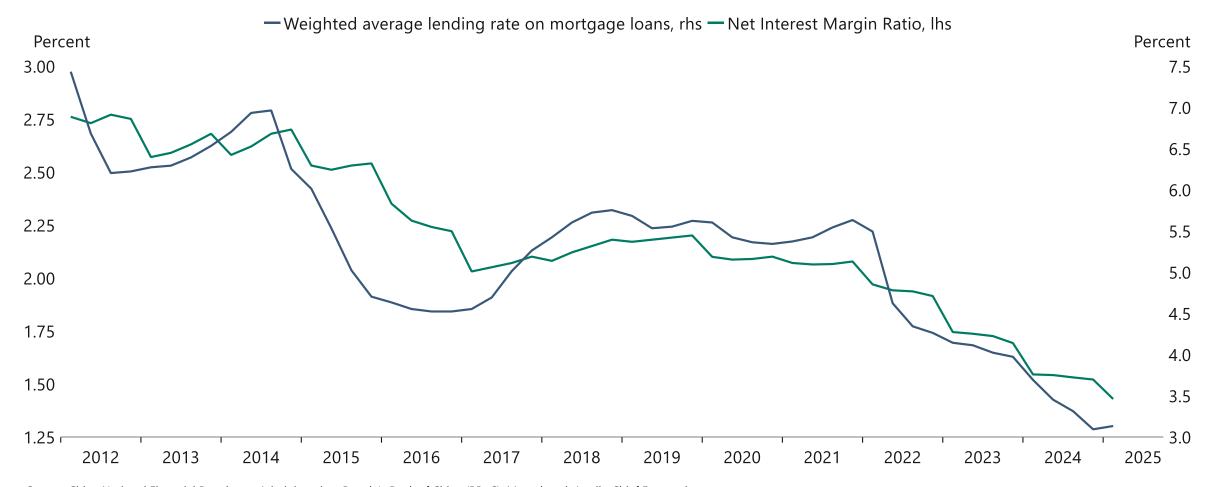
Source: People's Bank of China (PBoC), Macrobond, Apollo Chief Economist

China FDI falling fast



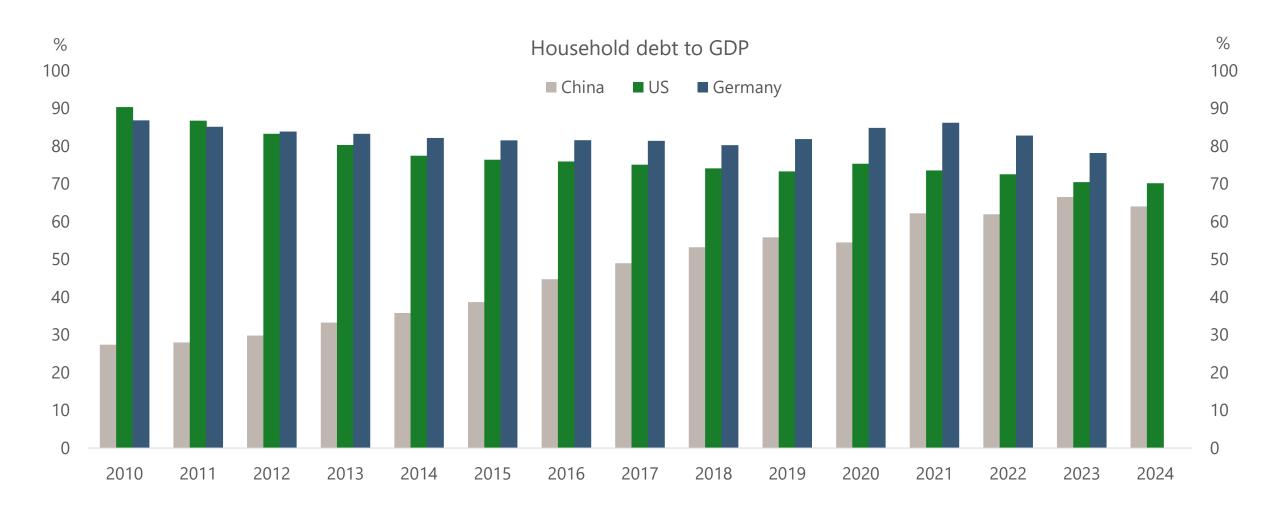
Source: State Administration of Foreign Exchange (SAFE) of China, Macrobond, Apollo Chief Economist

Falling margins in China's banking sector



Source: China National Financial Regulatory Administration, People's Bank of China (PBoC), Macrobond, Apollo Chief Economist

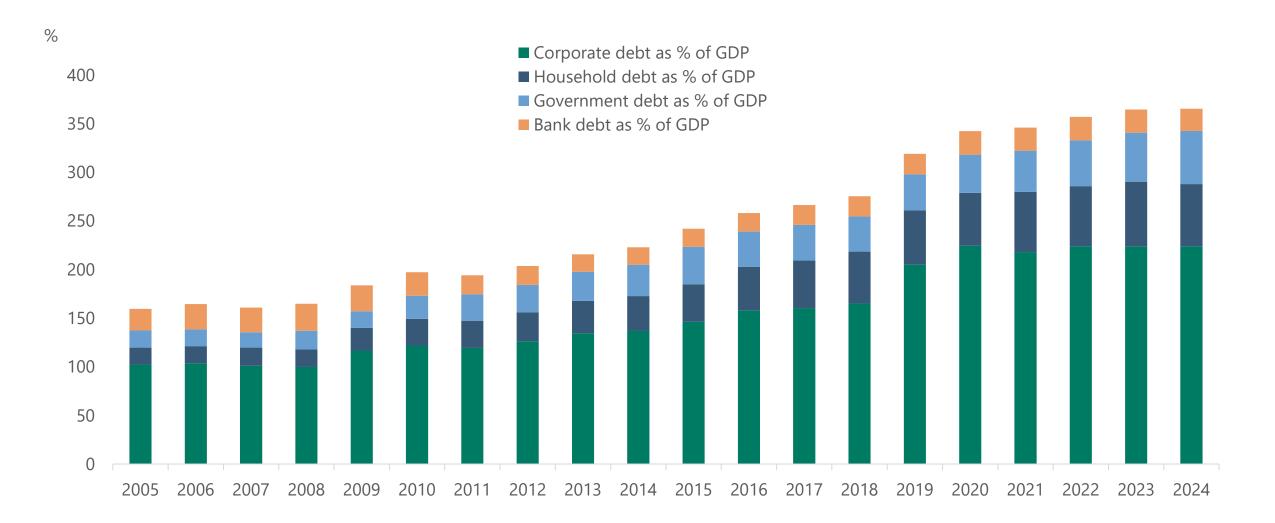
Household debt to GDP in China, US, and Germany



Source: Bloomberg, Apollo Chief Economist

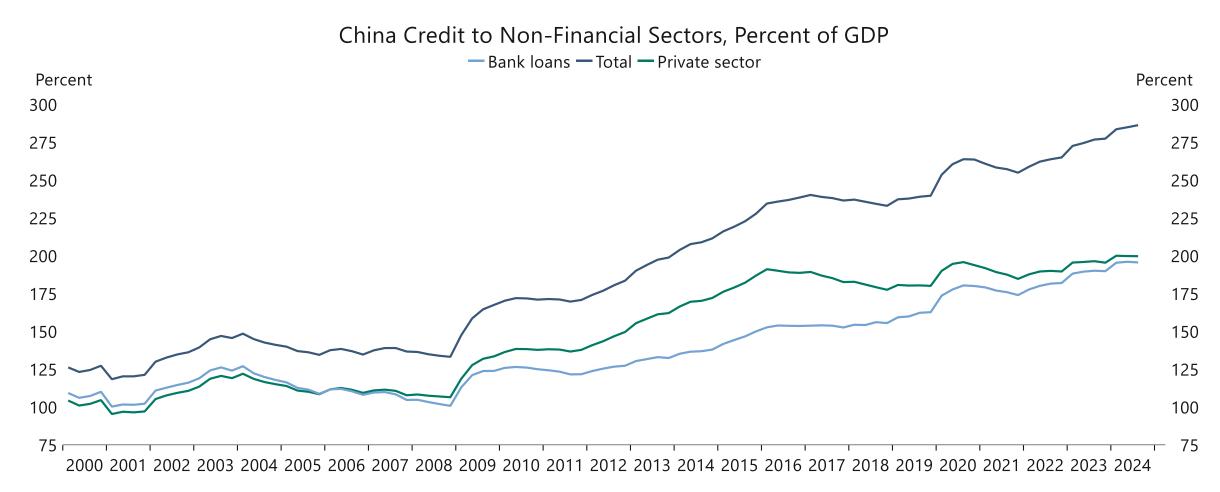
50

China: High debt levels, in particular in the corporate sector



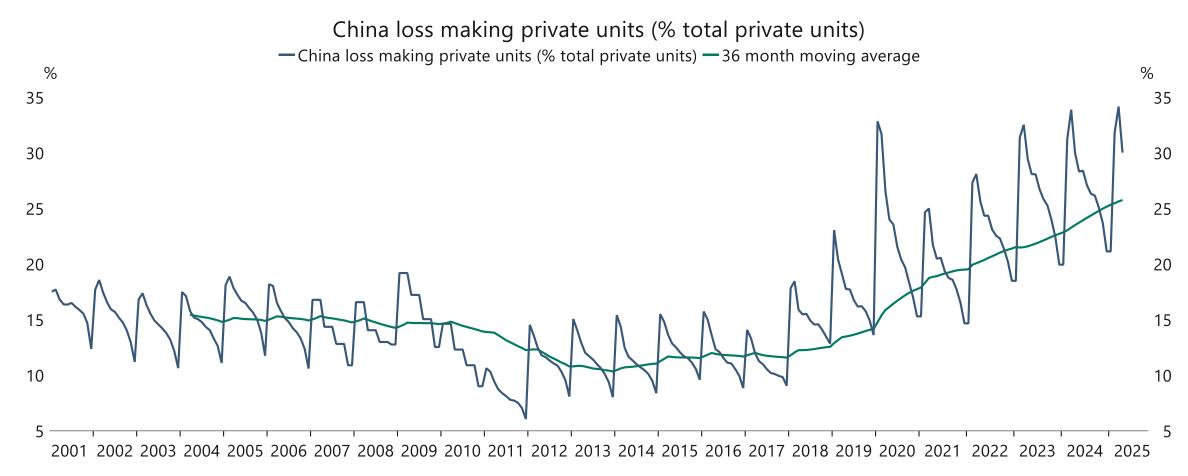
Source: Bloomberg, Apollo Chief Economist

China: Debt levels have increased in the private sector



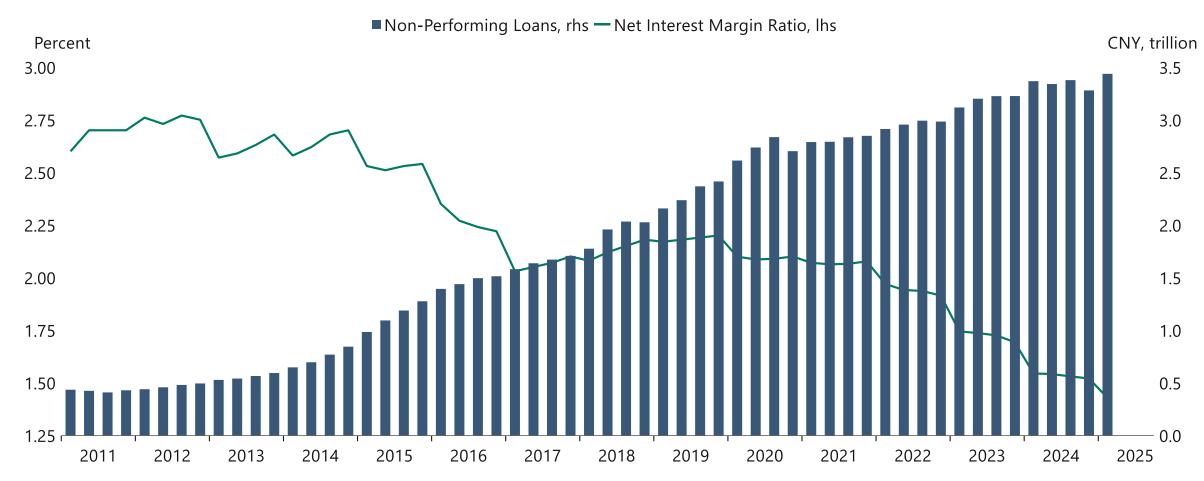
Source: BIS (The Bank for International Settlements), Macrobond, Apollo Chief Economist

A trend increase in the share of Chinese private firms that are loss-making



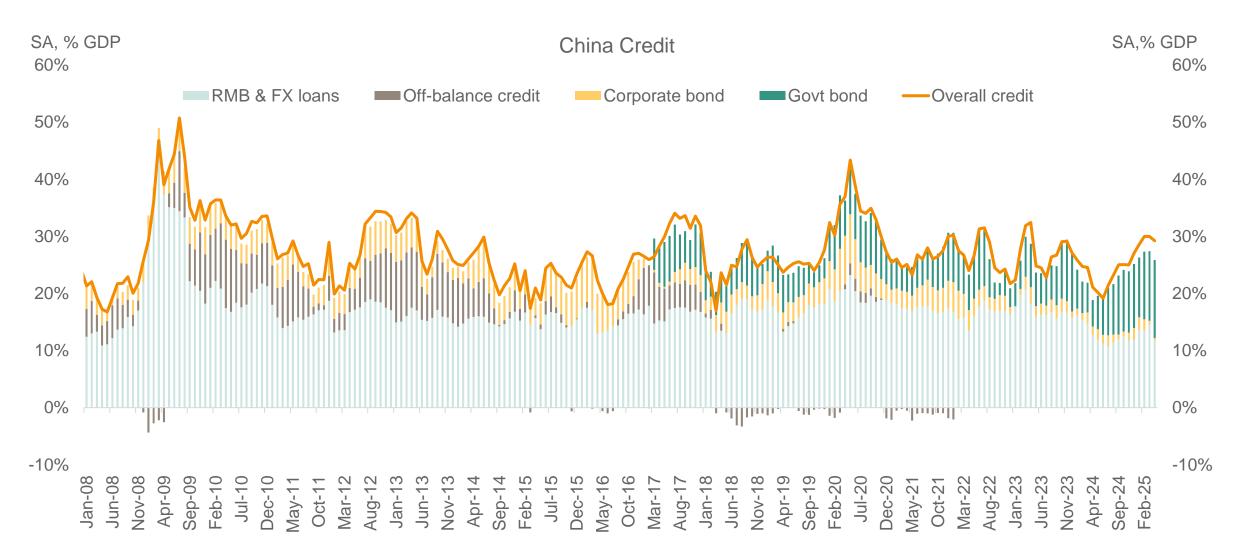
Source: China National Bureau of Statistics (NBS), Macrobond, Apollo Chief Economist

China banks: NPL has been rising

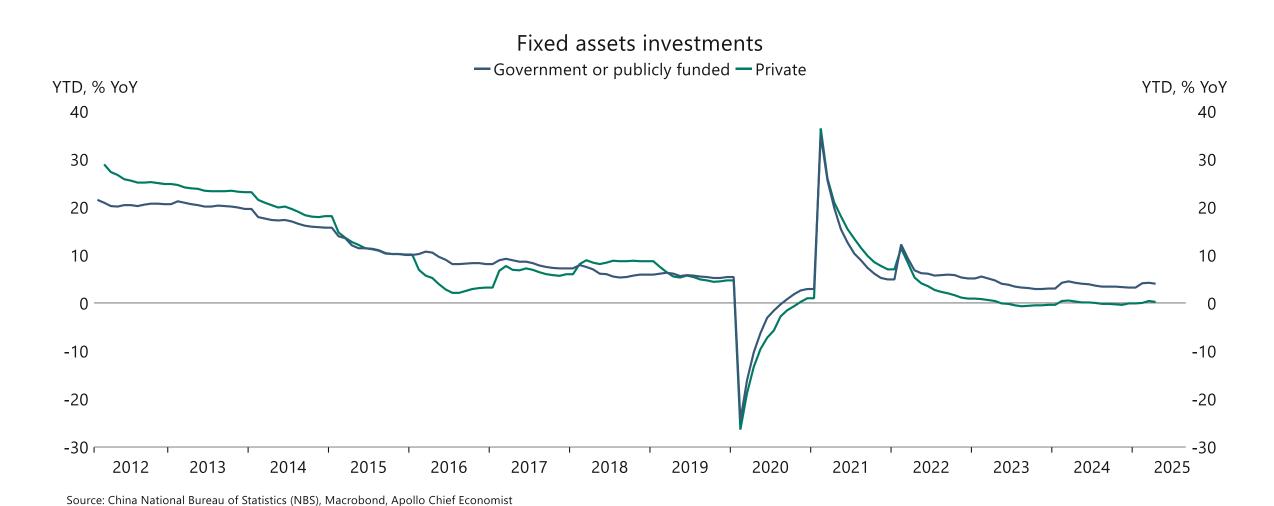


Source: China National Financial Regulatory Administration, Macrobond, Apollo Chief Economist

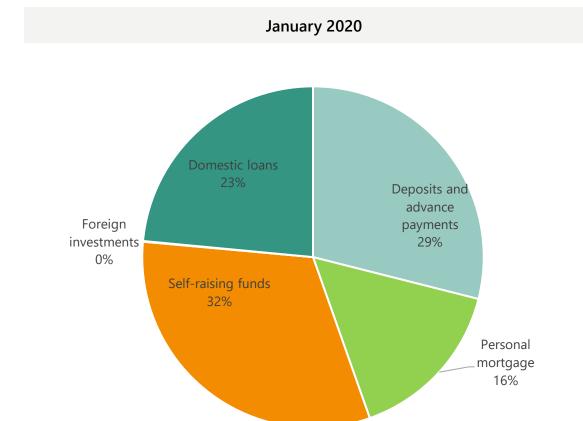
China credit growth



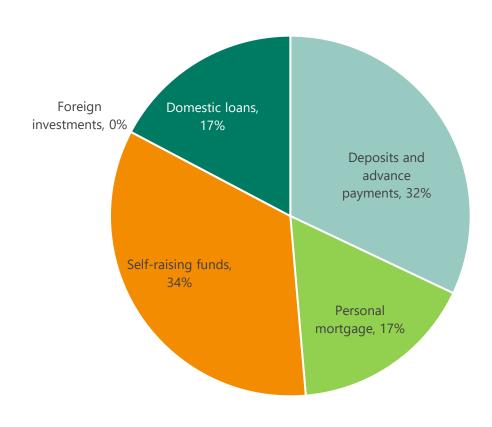
China: Private investment growth is slowing



China: Sources of funds for real estate developers

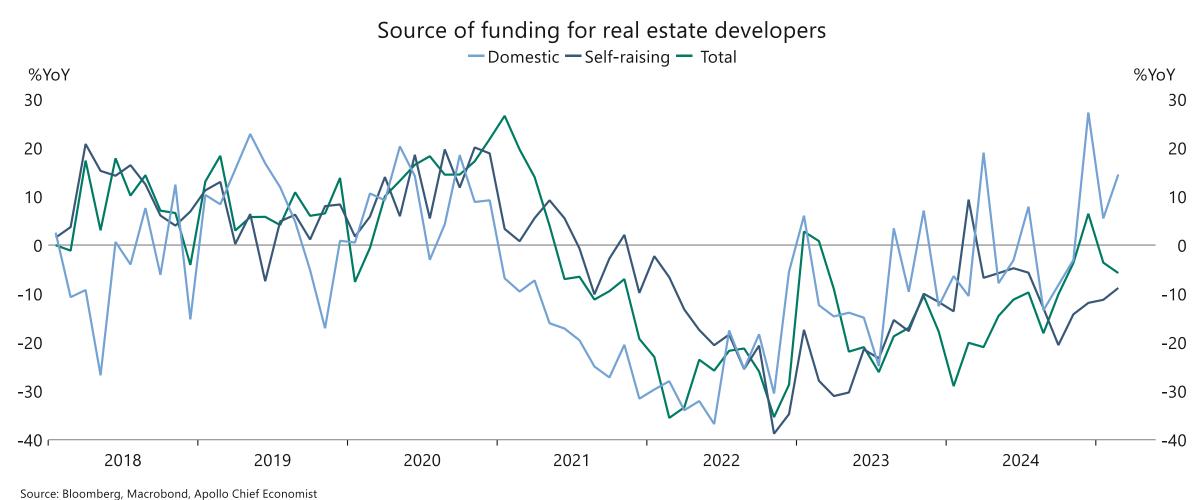


March 2025

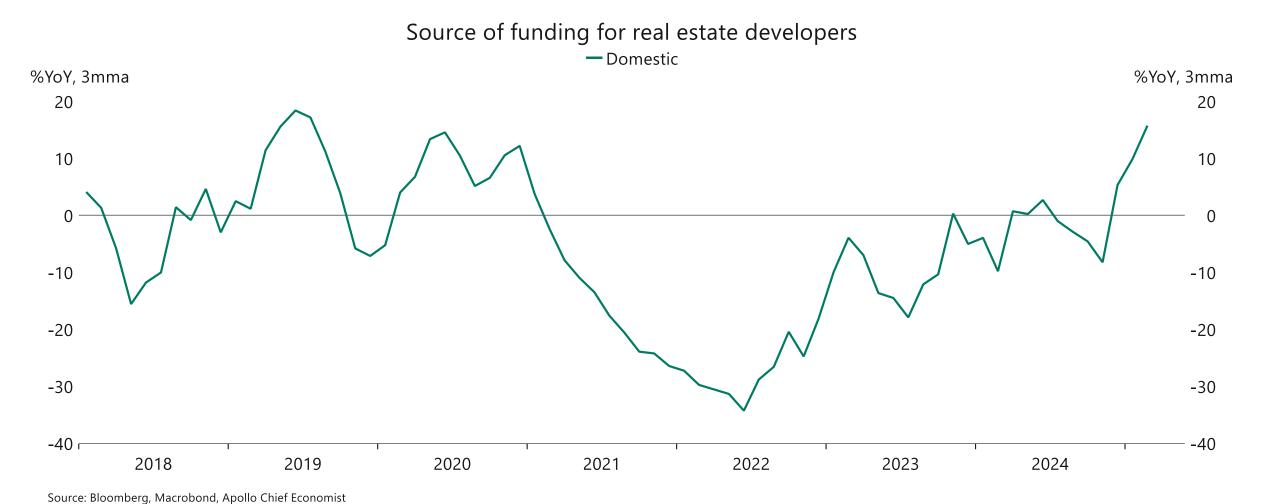


Sources: NBS, Haver, Apollo Chief Economist

China real estate: Funding gradually improving

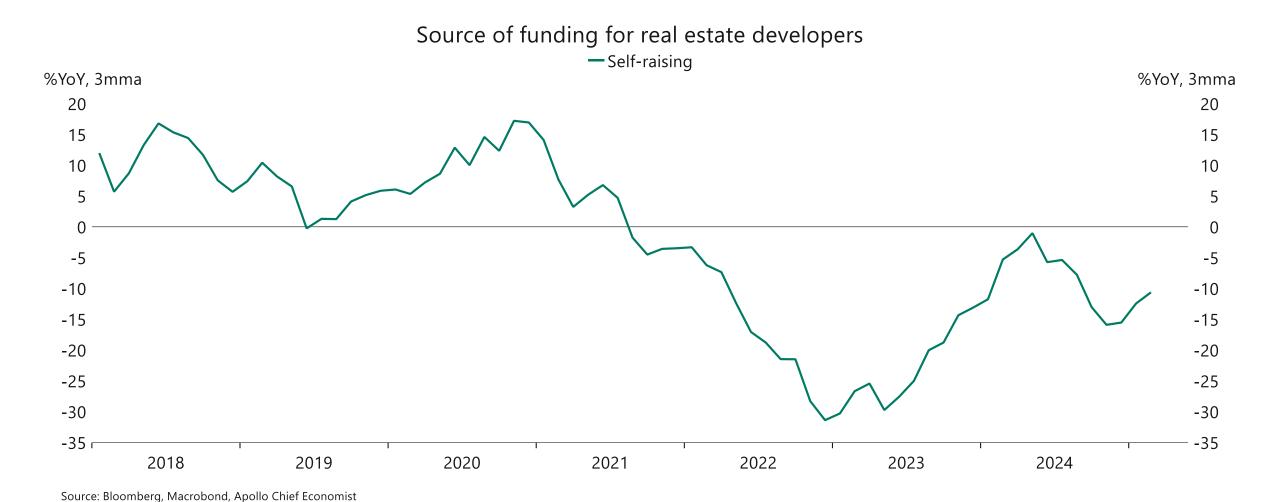


China: Domestic funding conditions

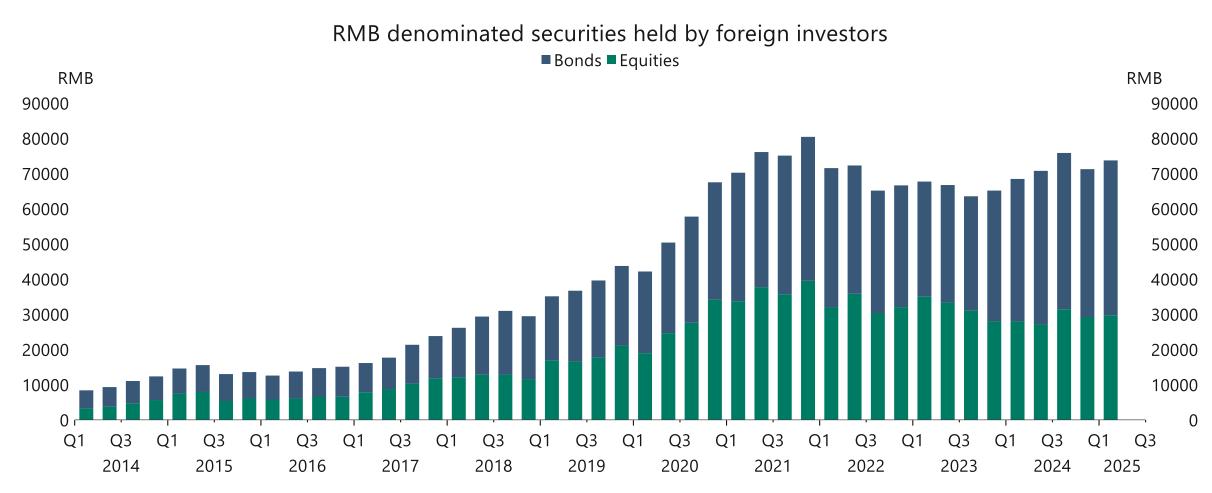


58

China: Self-financing for real estate developers



Global holdings of Chinese stocks and bonds



APOLLO

China: Credit markets and stock markets

China real estate sector performance compared to other Asian countries

— S&P/ASX 200 A-REIT Index — BI Singapore Real Estate Owners and Developers Valuation Peers — BI China Real Estate Owners and Developers Valuation Peers — BI Hong Kong Real Estate Owners and Developers Valuation Peers

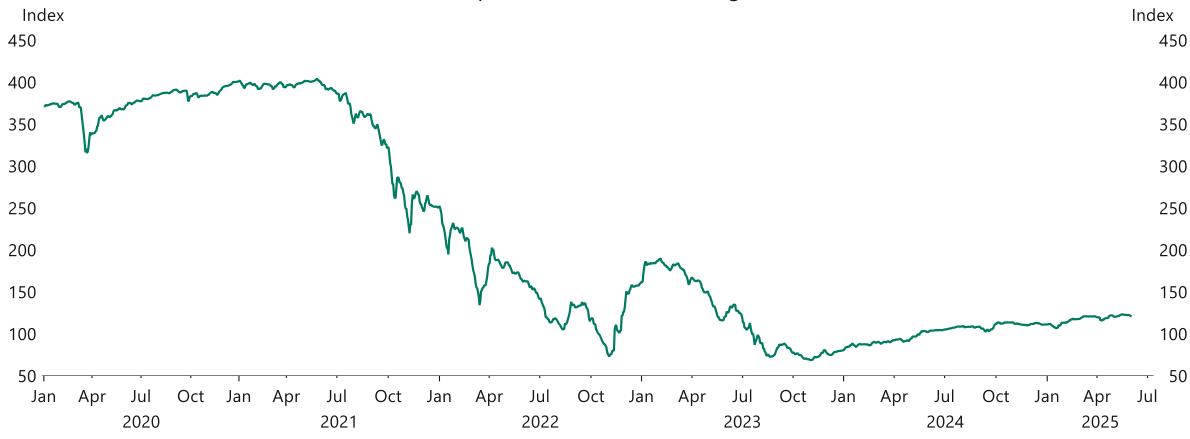


China IG and HY credit: Real estate developers have been hit hard



China's real estate sector under pressure





China: Within high yield, the real estate sector remains under pressure

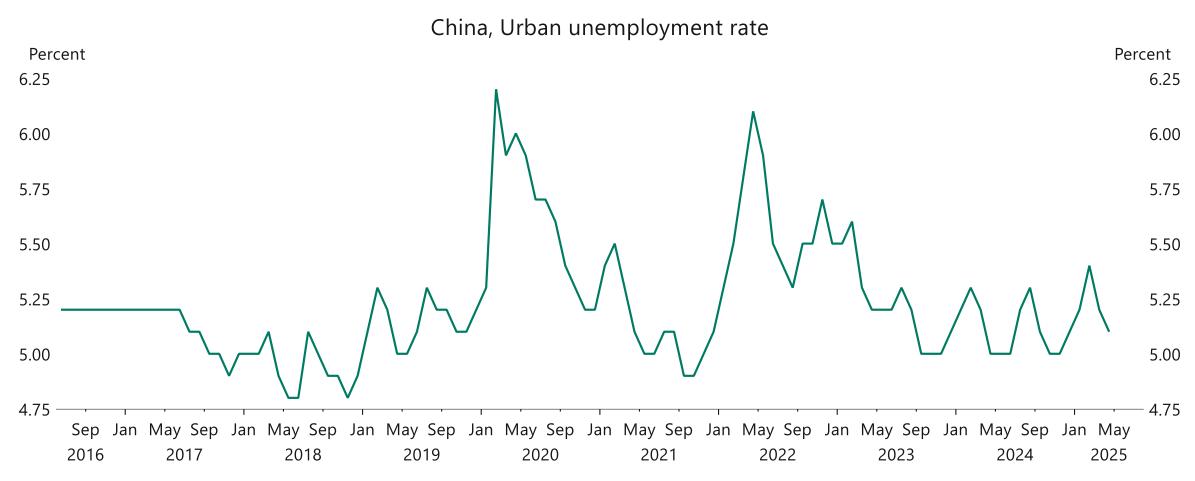


China: Stock prices of real estate developers



China: Other indicators

China: Unemployment rate is stable



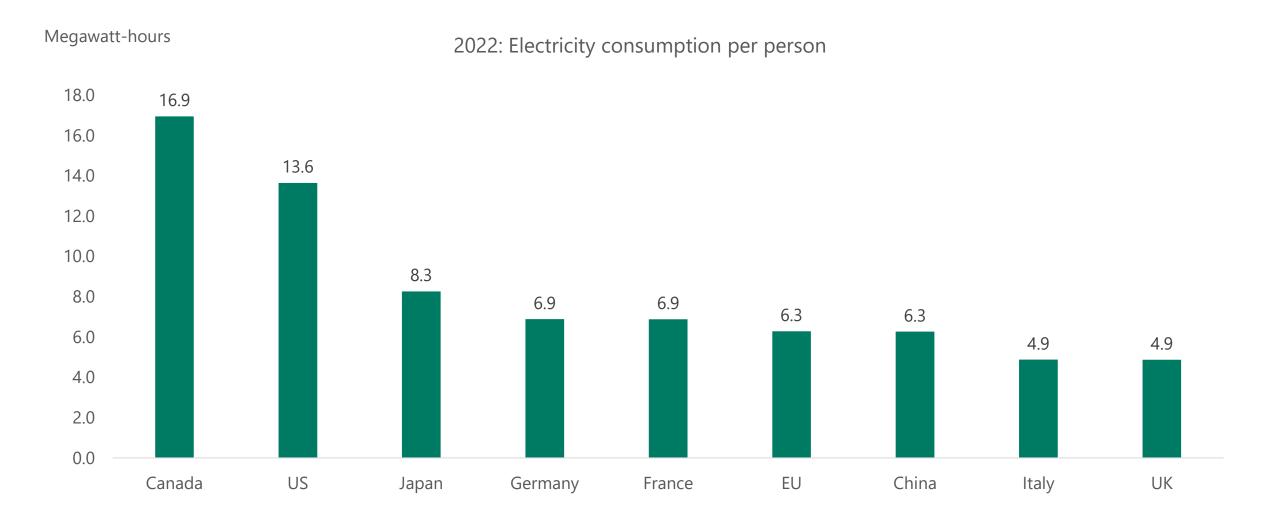
Source: China National Bureau of Statistics (NBS), Macrobond, Apollo Chief Economist

China: Consumer confidence is down



70

China's per capita electricity use is higher than in Italy and UK



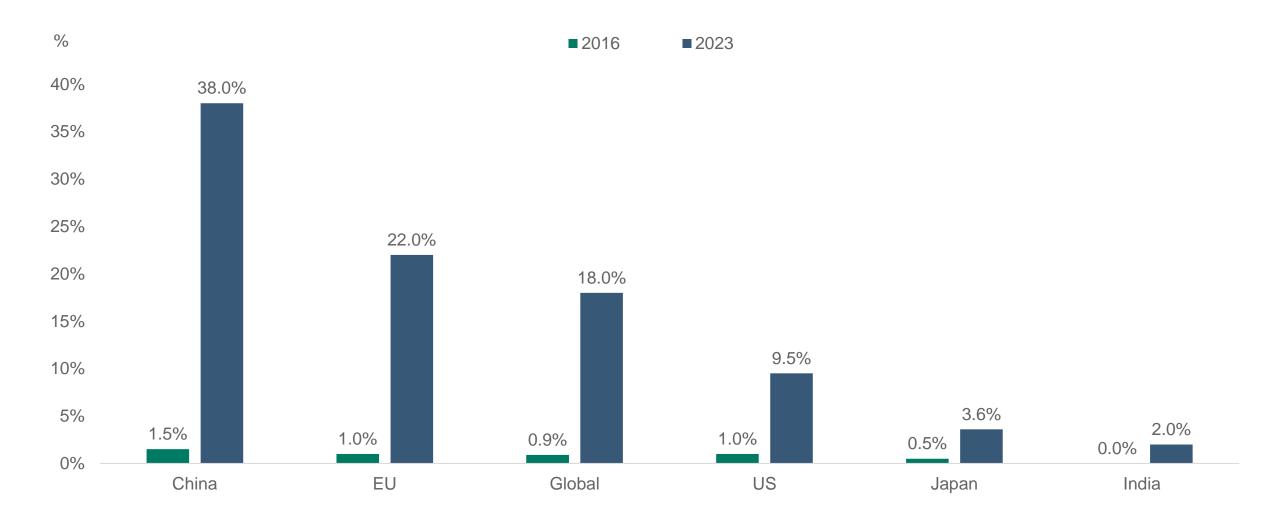
Source: Statistical review of world energy, World Bank, Apollo Chief Economist

Air quality levels back at 2021 levels



Source: Bloomberg, Macrobond, Apollo Chief Economist. Note: Data is 200 days moving average

China leads in EV penetration rate



M1 money supply and GDP growth

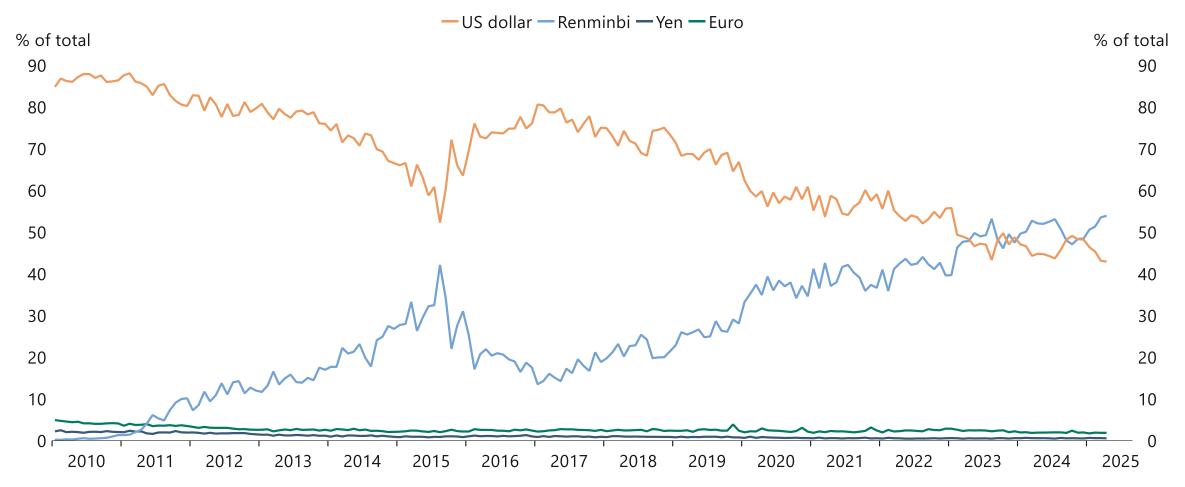


Shanghai freight rates lead China PPI



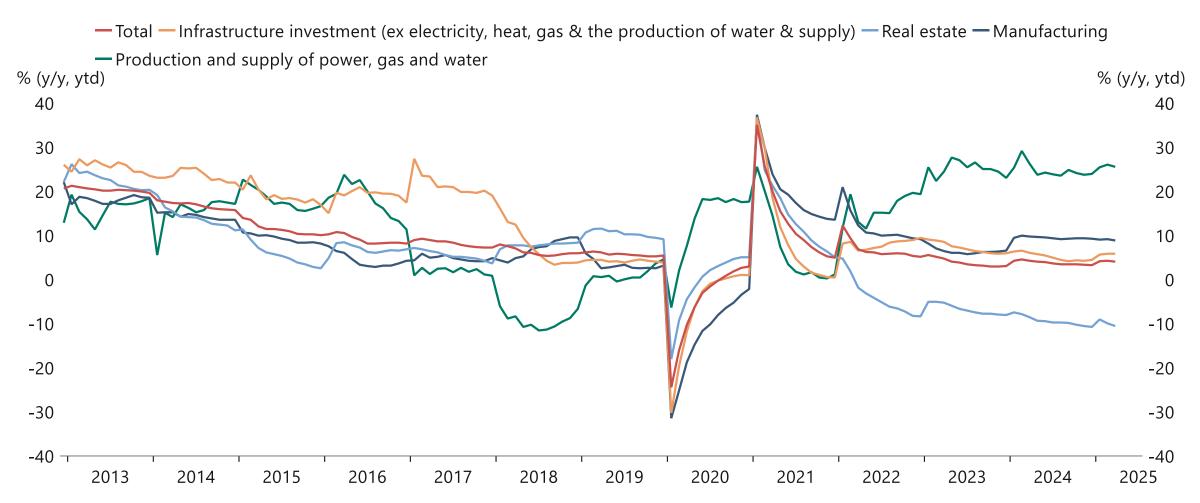
Source: China National Bureau of Statistics (NBS), Shanghai Shipping Exchange, Macrobond, Apollo Chief Economist

Outbound payments by currency



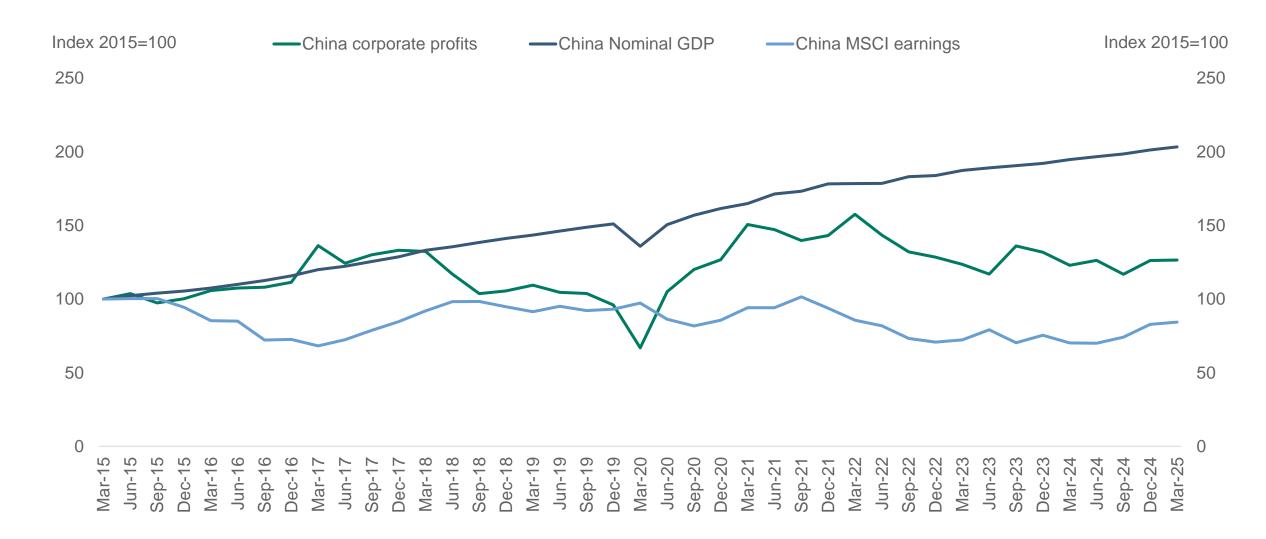
Source: State Administration of Foreign Exchange (SAFE) of China, Macrobond, Apollo Chief Economist

Fixed asset investment in China by sector



Source: China National Bureau of Statistics (NBS), Macrobond, Apollo Chief Economist

China's corporate profits declining relative to GDP and MSCI earnings

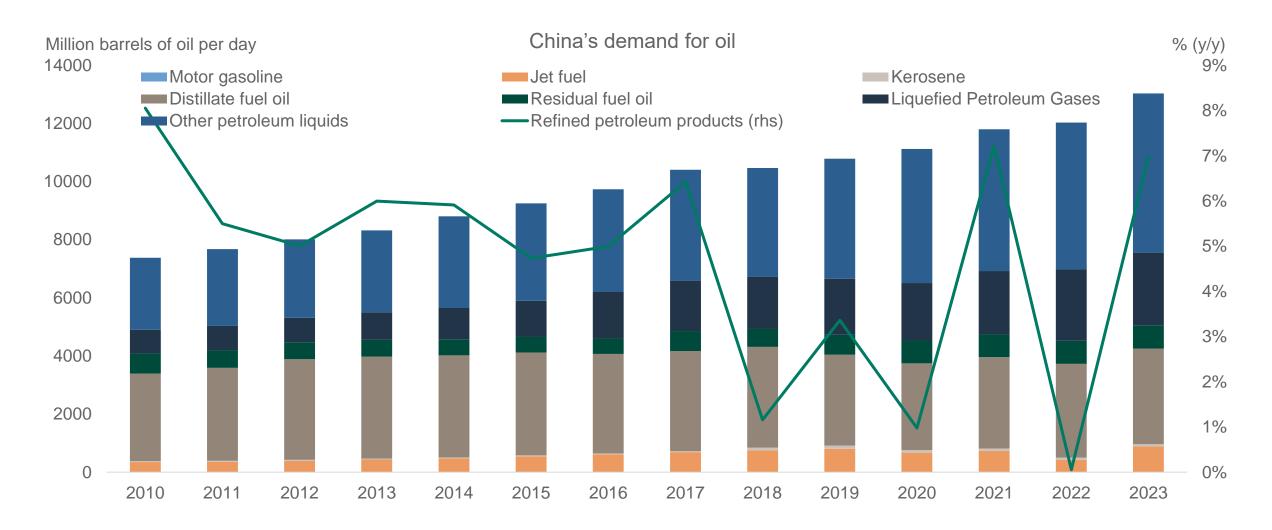


China's industrial profits declined third time in a row



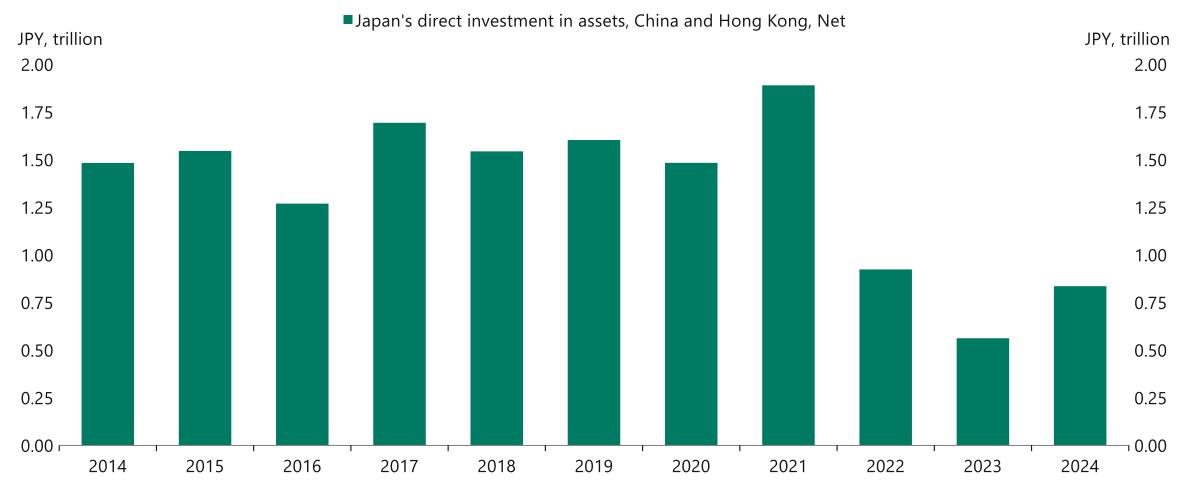
79

China's demand for oil



Source: EIA, Apollo Chief Economist.

Japanese investments into China



Source: Bank of Japan (BOJ), Macrobond, Apollo Chief Economist

Chinese gold trading volume





Torsten Slok, Ph.D.

Chief Economist

Apollo Global Management
tslok@apollo.com

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.