

Fixed Income Insights

MONTHLY REPORT - JANUARY 2024 | CHINA EDITION

FOR PROFESSIONAL INVESTORS ONLY

China continues to navigate inflation and growth challenges, as Fed pivots

The PBoC maintained its easy monetary policy in 2023, reducing policy rates and providing liquidity to the banking system. China also eased fiscal policy, funded by more bond issuance in Q4. The Chinese yield curve flattened vs the US inverted curve. Chinese \$ HY credit made further losses in 2023, after a Q4 rally.

Macroeconomic backdrop - Fed pivot indicates narrower policy gap between China and the US

Monetary policies may converge more between China and the G7 economies in 2024, as both the Fed dot plots and markets imply rate cuts in 2024, while China retains its loose policy given growth uncertainties and deflation risks. (page 2)

Chinese bonds - Longer Chinese bond yields fell further in 2023, driving 10s/2s bull flattening

Lower inflation and growth expectations drove falls in longer Chinese bond yields as the yield curve flattened. Onshore spreads tightened in 2023, led by shorter corporates. November data shows foreign ownership of CGBs recovering. (page 3)

Chinese and Asian bonds - Asian yields ended 2023 lower, after sharp falls in Q4

Philippines and Korea led 7-10-year yield declines, tracking US Treasury yields lower in Q4. Thai, Korean and Malaysian spreads vs the US were negative throughout 2023. (page 4)

Performance – Developed Asian bonds outperformed in Q4, while Indonesian and Indian bonds outperformed YTD

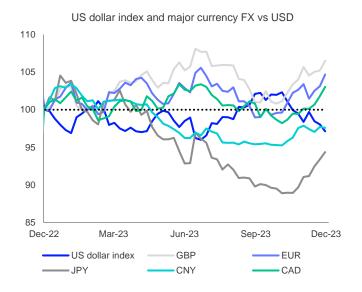
Korean and Australasian government bonds gained up to 14% in Q4. Indonesian and Indian bonds returned 7.5-9.9% YTD. Chinese \$ HY fell 15% in 2023, but \$ IG credits gained 10%. (pages 5-6)

Appendix - Global bond market returns, historical bond yields, duration and market value, foreign exchange returns.

Chart 1: Evidence the 2022 inflation shock was supply-driven can be found in supply chain indices. The recent uptick is therefore of note.

Chart 2: The US dollar continued to fall in December. The yen recovered strongly against USD as the Fed signaled rate cuts in 2024.





Macroeconomic Backdrop - Growth and Inflation Expectations

The Fed pivot and Q4 disinflation fuelled expectations of aggressive easing in 2024, despite a soft landing for growth in 2023, and an economy near full employment. China's 2024 growth outlook remains uncertain, but deflation risks give room for further easing. Monetary policy stances for the Fed and China may converge in 2024, after wide differences in 2022-23.

Despite stronger US growth relative to Europe in 2023, consensus forecasts show the differential narrowing in 2024, with US growth falling back towards 1% but avoiding recession (Chart 1). The Chinese outlook for 2024 reflects downside risks in manufacturing, the real estate sector, and weak domestic demand. Indeed, a big uncertainty for Europe and the US surrounds the Chinese outlook.

Headline inflation fell sharply in Q4 (see Chart 2) to 3.1% y/y in the US, though US core inflation is stickier. The theory that the last 1-2% of disinflation to the 2% target level has higher costs than earlier disinflation will now be tested in the US, Canada and Eurozone. Lower food prices have been key drivers of disinflation in China, but favourable base effects may help inflation increase in 2024.

The PBoC has pursued a neutral, or easier monetary policy to support China's economy, ever since major central banks started monetary tightening in early 2022 to fight surging inflation, led by the Fed. As G7 central banks show signs of ending rate hikes and pivoting to rate cuts in 2024, monetary policy divergence between China and elsewhere is expected to decrease.

China's money supply M2 increased to 291 trillion yuan by November, y/y growth of 10% (Chart 4). But much slower M1 growth suggests weaker consumption and investment. Total social financing (TSF) growth increased to 9.4% y/y in November, with RMB loans growth staying at 10.7%. Stable growth in M2 and TSF suggest underlying deflation risks are less severe.

Chart 1: Consensus growth forecasts show a continuation of US exceeding European growth in 2024, despite narrowing gaps. China's uncertain outlook adds risks to the growth in Europe.

| Chart 2: Regional inflation rates show some convergence towards |
|---|
| 2% target levels in headline inflation, though core inflation remains |
| stickier, at nearer 4%. The UK and China remain outliers globally. |
| |

| Latest Consensus Real GDP Forecasts (%, December 2023) | | | | | | | | |
|--|------|------|------|--|--|--|--|--|
| | 2022 | 2023 | 2024 | | | | | |
| US | 2.1 | 2.4 | 1.2 | | | | | |
| UK | 4.1 | 0.5 | 0.4 | | | | | |
| Eurozone | 3.3 | 0.5 | 0.6 | | | | | |
| Japan | 1.6 | 1.6 | 0.8 | | | | | |
| China | 3.0 | 5.0 | 4.5 | | | | | |
| Canada | 3.5 | 1.1 | 0.7 | | | | | |

Chart 3: The monetary policy rate gap between China and G7 is likely to have peaked, and is forecast to narrow in 2024, as G7 reduce rates, while China maintains its easy policy stance.

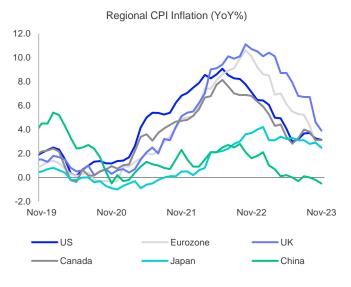
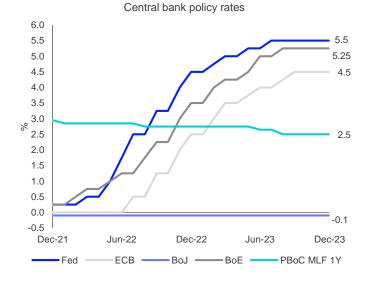
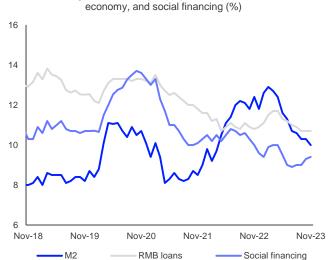


Chart 4: Both money supply and TSF growth have remained higher than GDP growth, reducing deflationary risks in the longer term. But slower M1 growth vs M2 triggered some concerns.

YoY growth in money supply, RMB loans to real





Chinese Government and Corporate Bonds

Chart 1: Chinese govt yields fell further in 2023, led by longer yields, as inflation and growth expectations fell. Short yield moves were mixed due to easing policy and high liquidity demands.

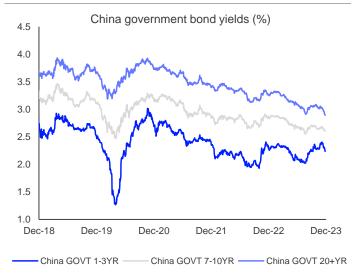


Chart 3: Shorter green and corporate bonds led onshore spread tightening in 2023. Regional government spreads remained wider than policy bank, and both narrowed marginally through the year.

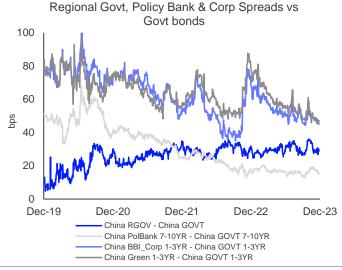


Chart 5: Foreign outflows from Chinese govt bonds slowed in 2023 vs 2022, helped by inflows of 113 billion RMB in November, when global bonds rallied. Increased Q4 issuance may also have helped.

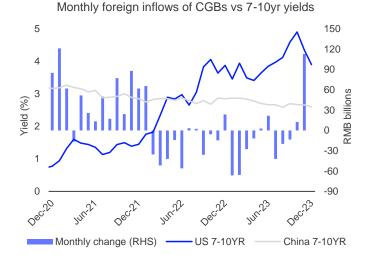


Chart 2: The Chinese 10s/2s curve bull flattened in 2023, driven by lower long yields. The US curve re-inverted in late Q4, after sharp dis-inversions, as 7-10yr yields fell & short yields stayed anchored.

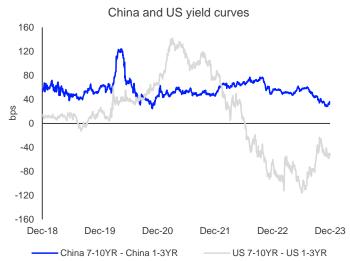


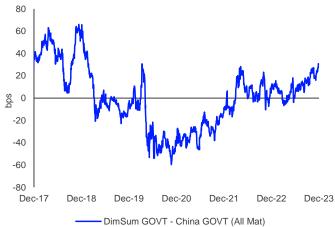
Chart 4: The Chinese bond yield gap between USD & RMB remains wide, driven by divergent monetary policies. China \$ IG yields fell to 5.4% from cycle highs, but remain higher than before the Fed hiked.



Chart 6: Yield differentials between offshore and onshore govt bonds widened to 30bps by the end of 2023, largely driven by lower onshore yields. But the gap remained narrower than earlier years.

China govt bonds offshore vs onshore yields





China and Asian Bonds in Global Context

Chart 1: APAC 7-10yr yields broadly ended 2023 lower vs 2022, led by the Philippines and Korea due to sharp falls in Q4. US 7-10 yields changed little y/y, despite steep ups and downs in H2 2023.

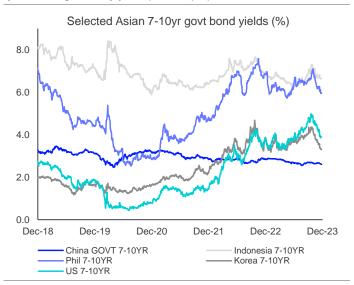


Chart 3: Chinese spreads vs the G7 trended lower since 2020. They have generally been counter-cyclical, rising when G7 yields fall and vice versa. This offers portfolio diversification benefits.

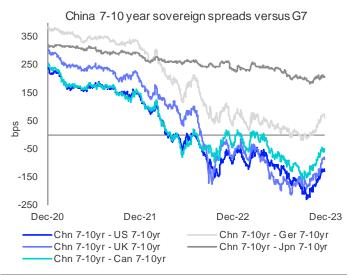


Chart 5: Chinese \$ HY spreads eased further in December to 3500bps, a level last seen a year ago. US HY spreads tightened by ~120bps in 2023, despite the Fed raising rates by 100bps.

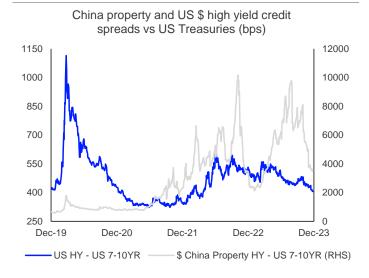


Chart 2: Asian 10s/2s yield curves flattened in 2023, driven by higher short yields, but the scale was much smaller than in 2022. The Korean curve inverted slightly, as US dis-inversion stalled.

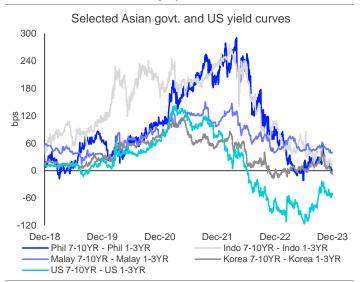


Chart 4: Asian 7-10yr spreads versus the US generally fell, except in Thailand, where yields rose in 2023 but spreads stayed negative. Korean and Malaysian spreads were also mostly below zero.

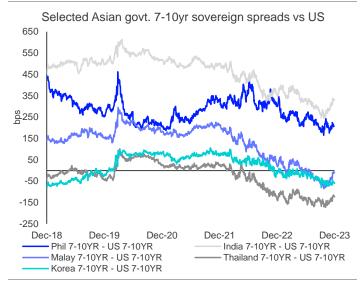
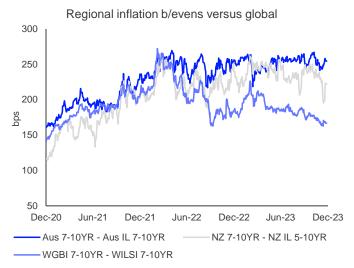


Chart 6: Breakevens in New Zealand tracked global ones lower in 2023, while those in Australia moved within a narrower range. Regional inflation rates of 5.4-5.6% remain above target & peers.



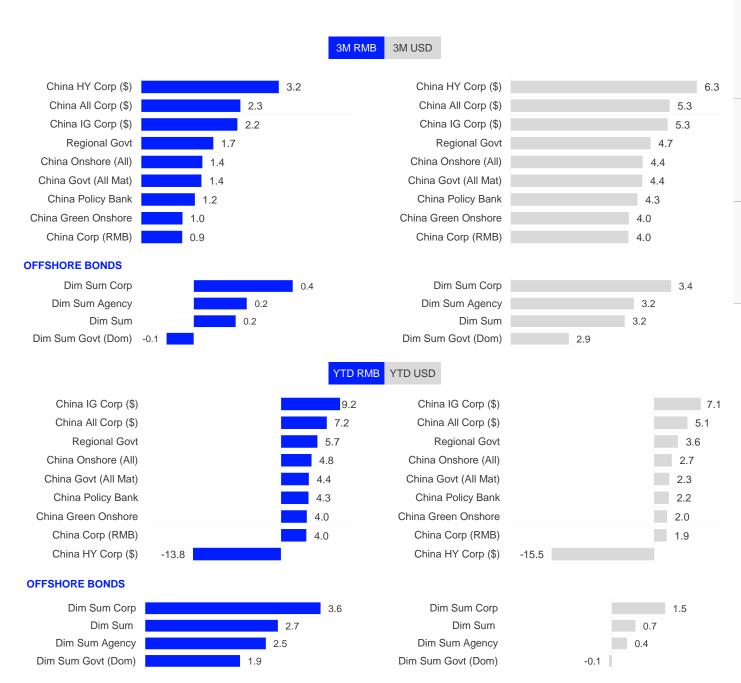
China Bond Market Returns - 3M & YTD in RMB & USD (TR) as of December 31, 2023

Chinese regional government bonds outperformed onshore peers on 3M and YTD, but corporates lagged. Onshore bond YTD returns of 4-5.7% in RMB terms were reduced to 1.9-3.6% for dollar investors, largely due to RMB weakness in Q2. Chinese \$ HY credits recovered in Q4, but fell 15% in 2023. IG credits were top YTD performers with gains of 7.1%.

Chinese regional government bonds led onshore bonds gains in Q4, returning 1.7% in renminbi terms. Sovereign bonds gained 1.4%, despite additional sovereign bond supply. 3M returns in US dollar terms (4-4.7%) were helped by a stronger renminbi in Q4. Regional government bonds were also the top YTD performers, with returns of 5.7% in RMB terms.

DimSum bonds underperformed onshore peers in Q4, posting returns of up to 0.4% and 3.4% in RMB and USD terms. Corporates have outperformed YTD, providing returns of 3.6% to domestic investors. Currency effects reduced returns for US dollar investors.

Chinese \$ HY corporates gained 6.3% in Q4, helped by a November rally, and rising Wanda Properties bonds in December (after receiving approval to extend its bond repayment). But China \$ HY credits were down further (-15.5%) in 2023 vs losses of 30% in 2022. Chinese \$ IG credits finished the year of 2023 higher, up 7.1%, helped by November and December rallies.



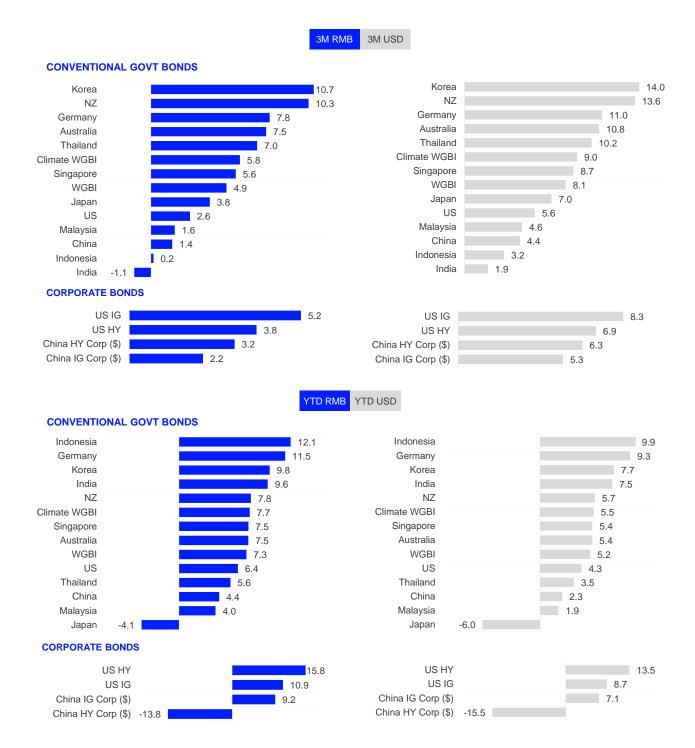
Global Bond Market Returns – 3M & YTD RMB & USD (TR) as of December 31, 2023

Developed Asian government bonds led gains in Q4 in both RMB and USD terms, including JGBs, helped by G7 bond rallies and stronger currencies. Indonesian and Indian bonds were among the YTD top performers, despite lagging in Q4. Korean bonds benefitted the most from Q4 rallies. Chinese \$ HY credits also rallied in Q4, reversing YTD losses of 15.5%.

Korean and Australasian government bonds led Q4 returns of up to 14%, helped by lower yields and stronger currencies versus the US dollar. Australasian currencies advanced further in December, boosted by expectations of central banks staying hawkish to curb inflation, in contrast to the Fed pivoting to rate cuts in 2024. JGB 3M returns were boosted by a yen rally in December.

Indonesian and Indian bonds gained 7.5-9.9% for US dollar investors in 2023, despite a weaker rupee versus US dollar. JGBs lost 6% YTD in US dollar terms, due to sharp depreciation of the yen as the BoJ maintained its easy policy stance (although the yen rallied in December, see page 10). Malaysian bond returns of 1.9% YTD in US dollar terms were dragged lower by a weaker ringgit.

Chinese \$ corporates, both IG and HY, joined the Q4 rally, but lagged US peers. YTD, US HY outperformed, returning 13.5% as risk appetite recovered. Both US and Chinese IG corporates outperformed US Treasury returns of 4.3% in 2023, gaining 7.1-8.7%,



Green highlight indicates highest 15%, red indicates lowest 15%.

| | | 1 | М | 3 | 3M 6M | | VI | 12M | |
|-----------------|-----------------|-------|-------|-------|-------|-------|-------|--------|--------|
| | | USD | RMB | USD | RMB | USD | RMB | USD | RMB |
| JS | 1-3YR | 1.14 | 0.59 | 2.52 | -0.45 | 3.27 | 0.83 | 4.35 | 6.46 |
| | 7-10YR | 3.99 | 3.42 | 6.58 | 3.49 | 1.88 | -0.53 | 3.92 | 6.02 |
| | 20+YR | 9.06 | 8.47 | 13.36 | 10.07 | -1.34 | -3.68 | 3.32 | 5.41 |
| | IG All | 4.29 | 3.72 | 8.32 | 5.17 | 5.24 | 2.75 | 8.71 | 10.91 |
| | HY All | 3.55 | 2.99 | 6.94 | 3.84 | 7.51 | 4.97 | 13.50 | 15.80 |
| China | 1-3YR | 1.09 | 0.54 | 3.73 | 0.72 | 3.52 | 1.07 | 0.64 | 2.67 |
| | 7-10YR | 1.50 | 0.94 | 4.72 | 1.68 | 4.54 | 2.06 | 2.90 | 4.98 |
| | 20+YR | 3.03 | 2.47 | 6.66 | 3.57 | 7.33 | 4.79 | 7.62 | 9.79 |
| | АШ | 1.49 | 0.94 | 4.42 | 1.39 | 4.32 | 1.85 | 2.29 | 4.36 |
| China Policy Ba | ank | 1.46 | 0.91 | 4.26 | 1.24 | 4.26 | 1.79 | 2.23 | 4.29 |
| Regional Govt | | 1.97 | 1.42 | 4.70 | 1.66 | 4.76 | 2.28 | 3.62 | 5.71 |
| China Corp (LC | C) | 1.20 | 0.66 | 3.96 | 0.94 | 3.94 | 1.48 | 1.91 | 3.97 |
| China Onshore | e (All) | 1.61 | 1.06 | 4.44 | 1.41 | 4.44 | 1.97 | 2.69 | 4.76 |
| China Green O | nshore | 1.19 | 0.64 | 3.97 | 0.95 | 3.95 | 1.49 | 1.97 | 4.03 |
| China All Corp | (\$) | 2.48 | 1.92 | 5.34 | 2.29 | 3.07 | 0.64 | 5.05 | 7.18 |
| China IG Corp | (\$) | 2.56 | 2.00 | 5.27 | 2.22 | 3.95 | 1.49 | 7.08 | 9.25 |
| China HY Corp | | 1.43 | 0.88 | 6.26 | 3.17 | -6.18 | -8.40 | -15.54 | -13.83 |
| Offshore Govt (| | 0.65 | 0.10 | 2.88 | -0.10 | 2.97 | 0.53 | -0.08 | 1.94 |
| Asia-Pac | 1-3YR | 1.35 | 0.80 | 4.47 | 1.44 | 3.79 | 1.33 | 1.53 | 3.58 |
| | 7-10YR | 2.99 | 2.43 | 7.12 | 4.01 | 4.80 | 2.32 | 4.90 | 7.02 |
| | 20+YR | 5.90 | 5.32 | 12.96 | 9.68 | 10.19 | 7.58 | 10.10 | 12.33 |
| | All | 2.70 | 2.14 | 6.75 | 3.66 | 5.05 | 2.56 | 4.21 | 6.32 |
| Australia | 1-3YR | 4.08 | 3.51 | 7.67 | 4.54 | 5.50 | 3.00 | 3.66 | 5.75 |
| | 7-10YR | 6.93 | 6.35 | 11.27 | 8.04 | 5.68 | 3.18 | 5.75 | 7.89 |
| | 20+YR | 10.90 | 10.30 | 17.14 | 13.74 | 5.24 | 2.75 | 5.72 | 7.85 |
| | All | 6.41 | 5.83 | 10.76 | 7.55 | 5.95 | 3.45 | 5.39 | 7.52 |
| ndia | 1-3YR | 1.04 | 0.49 | 1.83 | -1.12 | 1.97 | -0.44 | 6.58 | 8.73 |
| | 7-10YR | 1.42 | 0.87 | 1.93 | -1.03 | 1.52 | -0.88 | 7.51 | 9.69 |
| | 20+YR | 1.28 | 0.73 | 1.65 | -1.30 | 0.97 | -1.42 | 7.55 | 9.72 |
| | All | 1.30 | 0.75 | 1.86 | -1.10 | 1.45 | -0.95 | 7.45 | 9.62 |
| ndonesia | 1-3YR | 1.50 | 0.95 | 1.82 | -1.14 | -0.78 | -3.13 | 6.59 | 8.75 |
| | 7-10YR | 2.18 | 1.63 | 3.83 | 0.81 | -0.85 | -3.20 | 10.47 | 12.70 |
| | 20+YR | 2.19 | 1.63 | 2.46 | -0.51 | -0.45 | -2.80 | 13.13 | 15.41 |
| | All | 2.10 | 1.54 | 3.15 | 0.16 | -0.95 | -3.30 | 9.89 | 12.11 |
| Japan | 1-3YR | 4.87 | 4.30 | 5.92 | 2.85 | 2.39 | -0.03 | -6.31 | -4.42 |
| | 7-10YR | 5.43 | 4.86 | 7.50 | 4.38 | 1.42 | -0.98 | -5.54 | -3.63 |
| | 20+YR | 5.79 | 5.22 | 6.52 | 3.43 | -5.75 | -7.98 | -6.79 | -4.90 |
| | All | 5.44 | 4.86 | 6.95 | 3.85 | -0.85 | -3.19 | -5.96 | -4.06 |
| Corea | 1-3YR | 1.00 | 0.45 | 6.87 | 3.77 | 5.08 | 2.60 | 2.66 | 4.74 |
| | 7-10YR | 3.70 | 3.13 | 11.85 | 8.60 | 7.89 | 5.34 | 5.84 | 7.98 |
| | 20+YR | 9.75 | 9.16 | 23.16 | 19.59 | 16.93 | 14.16 | 14.45 | 16.76 |
| | All | 4.92 | 4.35 | 13.97 | 10.66 | 10.09 | 7.49 | 7.65 | 9.83 |
| /lalaysia | 1-3YR | 1.75 | 1.20 | 3.25 | 0.26 | 3.45 | 1.00 | -0.20 | 1.82 |
| , | 7-10YR | 2.40 | 1.84 | 4.41 | 1.39 | 3.91 | 1.45 | 1.64 | 3.70 |
| | 20+YR | 3.14 | 2.58 | 6.63 | 3.53 | 3.80 | 1.34 | 5.37 | 7.50 |
| | All | 2.35 | 1.80 | 4.59 | 1.56 | 3.87 | 1.41 | 1.90 | 3.96 |
| lew Zealand | 1-3YR | 3.67 | 3.10 | 8.65 | 5.50 | 6.70 | 4.17 | 4.84 | 6.96 |
| =valatia | 7-10YR | 7.41 | 6.83 | 15.06 | 11.73 | 8.21 | 5.65 | 5.99 | 8.13 |
| | 20+YR | 11.84 | 11.23 | 24.73 | 21.11 | 9.04 | 6.46 | 3.66 | 5.75 |
| | All | 6.48 | 5.90 | 13.62 | 10.33 | 7.92 | 5.37 | 5.66 | 7.80 |
| ingapore | 1-3YR | 1.76 | 1.21 | 5.31 | 2.26 | 5.01 | 2.53 | 4.79 | 6.91 |
| | 7-10YR | 3.32 | 2.75 | 9.95 | 6.76 | 7.49 | 4.94 | 8.32 | 10.51 |
| | | | | | | | | | |
| | 20+YR | 6.78 | 6.20 | 12.51 | 9.24 | -1.30 | -3.63 | 0.55 | 2.59 |
| | All | 3.44 | 2.88 | 8.71 | 5.55 | 4.85 | 2.37 | 5.41 | 7.54 |
| Γhailand | 1-3YR | 3.44 | 2.88 | 7.73 | 4.60 | 4.79 | 2.31 | 2.35 | 4.42 |
| | | 5.04 | 4.07 | 44.04 | 0.00 | 1.00 | 4.00 | 2.22 | 5.31 |
| | 7-10YR | 5.24 | 4.67 | 11.31 | 8.08 | 4.06 | 1.60 | 3.23 | 5.51 |
| | 7-10YR 20+YR | 7.18 | 6.60 | 12.27 | 9.01 | 2.64 | 0.22 | 8.35 | 10.54 |

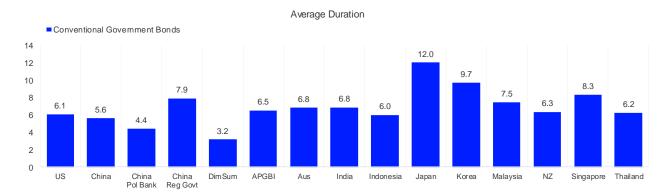
| | | Convon | tional gov | ornmont | bondo | Inflatio | n-linked b | ondo | Inv Grade | High VId |
|-------------|---------|--------|------------|--------------------|-------|----------|------------|-------|-----------|----------|
| | | 1-3YR | 3-5YR | vernment 7-10YR | 20+YR | 1-5YR | 5-10YR | 20+YR | All Mat | All Mat |
| US | Current | 4.37 | 3.92 | 3.87 | 4.14 | 2.20 | 1.72 | 1.96 | 5.11 | 7.79 |
| 03 | 3M Ago | 5.16 | 4.71 | 4.59 | 4.14 | 2.72 | 2.29 | 2.37 | 6.06 | 8.91 |
| | 6M Ago | 5.01 | 4.31 | 3.85 | 3.95 | 2.45 | 1.72 | 1.68 | 5.53 | 8.58 |
| | 12M Ago | 4.54 | 4.13 | 3.88 | 4.11 | 2.43 | 1.68 | 1.82 | 5.50 | 8.99 |
| UK | Current | 3.94 | 3.45 | 3.46 | 4.17 | -0.02 | -0.02 | 0.91 | 3.30 | 0.33 |
| OK . | 3M Ago | 4.73 | 4.46 | 4.35 | 4.81 | 0.55 | 0.53 | 1.39 | | |
| | 6M Ago | 5.36 | 5.04 | 4.38 | 4.35 | 1.78 | 0.72 | 0.90 | | |
| | 12M Ago | 3.50 | 3.65 | 3.69 | 3.92 | | | 0.90 | | |
| lanan | Current | 0.00 | | | | -0.68 | 0.15 | 0.49 | | |
| Japan | | | 0.13 | 0.50 | 1.60 | -1.67 | -0.81 | | | |
| | 3M Ago | 0.01 | 0.21 | 0.66 | 1.61 | -1.75 | -0.70 | | | |
| | 6M Ago | -0.10 | -0.01 | 0.29 | 1.21 | -1.64 | -0.87 | | | |
| <u> </u> | 12M Ago | 0.03 | 0.15 | 0.48 | 1.50 | -1.22 | -0.54 | | | |
| China | Current | 2.18 | 2.33 | 2.58 | 2.90 | | | | | |
| | 3M Ago | 2.24 | 2.42 | 2.70 | 3.06 | | | | | |
| | 6M Ago | 2.09 | 2.33 | 2.66 | 3.08 | | | | | |
| | 12M Ago | 2.28 | 2.53 | 2.85 | 3.26 | | | | | |
| EM | Current | | | | | 4.27 | 4.23 | 4.82 | 5.57 | 10.03 |
| | 3M Ago | | | | | 3.27 | 4.48 | 5.32 | 6.43 | 11.01 |
| | 6M Ago | | | | | 4.15 | 4.07 | 4.86 | 5.95 | 11.86 |
| | 12M Ago | | | | | 2.79 | 3.04 | 5.15 | 5.92 | 11.40 |
| Germany | Current | 2.48 | 1.97 | 1.96 | 2.25 | 0.92 | 0.16 | 0.16 | | |
| | 3M Ago | 3.21 | 2.78 | 2.75 | 2.97 | 0.87 | 0.44 | 0.52 | | |
| | 6M Ago | 3.17 | 2.66 | 2.37 | 2.36 | 0.96 | 0.19 | -0.06 | | |
| | 12M Ago | 2.56 | 2.53 | 2.54 | 2.51 | 0.40 | 0.34 | 0.18 | | |
| Italy | Current | 2.99 | 2.88 | 3.45 | 4.17 | 1.23 | 1.62 | 1.88 | | |
| | 3M Ago | 3.94 | 4.03 | 4.50 | 5.02 | 1.68 | 2.31 | 2.43 | | |
| | 6M Ago | 3.79 | 3.71 | 3.87 | 4.25 | 1.74 | 1.78 | 1.70 | | |
| | 12M Ago | 3.34 | 3.72 | 4.38 | 4.72 | 1.16 | 2.19 | 2.18 | | |
| France | Current | 2.49 | 2.23 | 2.43 | 3.00 | 0.56 | 0.32 | 0.64 | | |
| | 3M Ago | 3.33 | 3.14 | 3.26 | 3.79 | 0.82 | 0.75 | 1.12 | | |
| | 6M Ago | 3.21 | 2.94 | 2.85 | 3.19 | 0.88 | 0.47 | 0.55 | | |
| | 12M Ago | 2.85 | 2.82 | 2.97 | 3.30 | 0.15 | 0.44 | 0.77 | | |
| Sweden | Current | 2.59 | 2.04 | 2.01 | | 1.12 | 0.59 | | | |
| | 3M Ago | 3.50 | 3.18 | 2.98 | | 1.42 | 1.28 | | | |
| | 6M Ago | 3.43 | 2.94 | 2.61 | | 1.18 | 0.91 | | | |
| | 12M Ago | 2.80 | 2.65 | 2.37 | | -0.24 | 0.25 | | | |
| Australia | Current | 3.71 | 3.63 | 3.90 | 4.30 | 0.85 | 1.27 | 1.61 | | |
| | 3M Ago | 4.14 | 4.10 | 4.43 | 4.86 | 1.30 | 1.78 | 2.24 | | |
| | 6M Ago | 4.17 | 3.99 | 4.02 | 4.36 | 1.04 | 1.47 | 1.85 | | |
| | 12M Ago | 3.43 | 3.62 | 4.01 | 4.37 | 0.60 | 1.45 | 1.88 | | |
| New Zealand | Current | 4.71 | 4.24 | 4.31 | 4.60 | 1.45 | 2.12 | | | |
| | 3M Ago | 5.63 | 5.35 | 5.32 | 5.54 | 2.50 | 2.89 | | | |
| | 6M Ago | 5.08 | 4.67 | 4.61 | 4.77 | 1.53 | 2.15 | | | |
| | 12M Ago | 5.00 | 4.62 | 4.46 | 4.54 | 1.54 | 2.06 | | | |
| Canada | Current | 3.94 | 3.26 | 3.10 | 3.04 | 1.31 | 1.35 | 1.51 | | |
| | 3M Ago | 4.88 | 4.37 | 4.07 | 3.85 | 2.35 | 2.29 | 2.13 | | |
| | 6M Ago | 4.60 | 3.84 | 3.35 | 3.12 | 1.90 | 1.57 | 1.43 | | |
| | 12M Ago | 4.04 | 3.50 | 3.28 | 3.26 | 1.53 | 1.39 | 1.18 | | |

Appendix - Duration and Market Value (USD, Bn), December 31, 2023

| Conventional Government Bonds | | | | | | | | | |
|-------------------------------|----------------------------|-------|------|--------------|---------|---------|---------|----------|--|
| | | Durat | ion | Market Value | | | | | |
| | 3-5YR 7-10YR 20+YR Overall | | | | 3-5YR | 7-10YR | 20+YR | Total | |
| US | 3.7 | 7.4 | 17.2 | 6.1 | 2,522.9 | 1,098.8 | 1,336.4 | 10,868.3 | |
| China | 3.7 | 7.6 | 17.7 | 5.6 | 595.9 | 358.8 | 277.5 | 2,426.4 | |
| China Pol Bank | | | | 4.4 | | | | 2,865.2 | |
| China Reg Govt | | | | 7.9 | | | | 2,387.4 | |
| DimSum | | | | 3.2 | | | | 10.4 | |
| APGBI | 3.7 | 7.3 | 18.1 | 6.5 | 866.3 | 725.3 | 556.8 | 4,188.7 | |
| Aus | 3.7 | 7.5 | 17.2 | 6.8 | 48.8 | 106.8 | 21.7 | 331.3 | |
| India | 3.2 | 6.1 | 11.8 | 6.8 | 113.9 | 202.7 | 263.1 | 1,098.4 | |
| Indonesia | 3.3 | 6.1 | 11.4 | 6.0 | 31.5 | 55.8 | 11.6 | 229.2 | |
| Japan | 3.8 | 8.0 | 23.7 | 12.0 | 378.7 | 370.5 | 673.5 | 3,117.7 | |
| Korea | 3.5 | 7.0 | 19.3 | 9.7 | 89.0 | 98.4 | 203.8 | 670.4 | |
| Malaysia | 3.4 | 7.1 | 15.2 | 7.5 | 22.6 | 17.6 | 15.1 | 117.4 | |
| NZ | 3.6 | 7.4 | 17.2 | 6.3 | 11.1 | 16.0 | 2.9 | 57.4 | |
| Singapore | 3.5 | 7.7 | 20.5 | 8.3 | 16.6 | 15.1 | 17.6 | 99.3 | |
| Thailand | 3.5 | 7.3 | 16.8 | 6.2 | 31.9 | 30.5 | 6.5 | 145.1 | |

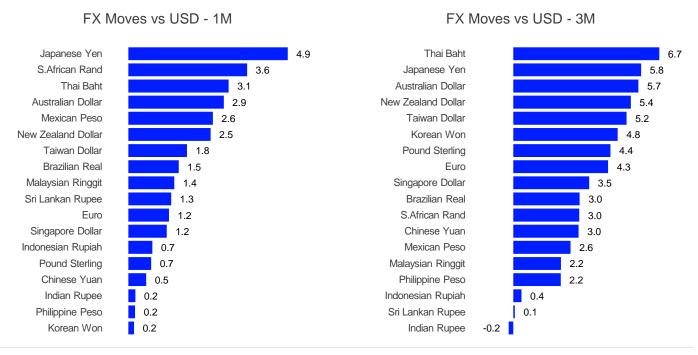
| Corporate Bonds | | | | | | |
|---------------------|-----------|------------|---------|-----------|--------------|---------|
| | | Duration | | | Market Value | |
| | Inv Grade | High Yield | Overall | Inv Grade | High Yield | Overall |
| US | 7.1 | 3.9 | | 6,755.4 | 1,034.5 | |
| China Corp (LC) | | | 2.2 | | | 568.9 |
| China Green Onshore | | | 2.2 | | | 158.3 |
| China Corp (\$) | 4.1 | 2.2 | 7.9 | 227.2 | 17.5 | 244.7 |
| DimSum | | | 2.1 | | | 13.9 |
| EM | 5.1 | 3.3 | 4.7 | 566.3 | 161.1 | 727.4 |
| EUxUK | 4.4 | 3.0 | | 3,047.4 | 428.2 | |

| Other Sectors | | | | | | | |
|-------------------|-------|----------|---------|--------------|--------|---------|--|
| | | Duration | | Market Value | | | |
| | Supra | Agency | Corp NR | Supra | Agency | Corp NR | |
| Offshore (DimSum) | 1.9 | 2.6 | | 1.6 | 5.8 | | |





Data as of 2023-12-29



FX Moves vs USD - YTD

FX Moves vs USD - 12M



Growth/Inflation

Bond markets are based on the following Indices:

FTSE World Government Bond Index (WGBI) for all global government bond markets

FTSE World Inflation-Linked Securities Index (WorldILSI) for all global inflation-linked bond markets

FTSE US Broad Investment-Grade Bond Index (USBIG®) for the US corporate bond market

FTSE US High-Yield Market Index for the US high yield bond market

FTSE Euro Broad Investment-Grade Bond Index (EuroBIG®) for the Euro-denominated corporate bond market

FTSE European High-Yield Market Index for the European high yield market

FTSE Chinese Government and Policy Bank Bond Index (CNGPBI) for the Chinese government bond market

FTSE Emerging Markets Inflation-Linked Securities Index (EMILSI) for the emerging markets inflation-linked bond market

FTSE Emerging Markets Government Bond Index (EMGBI) for the emerging markets government bond market. Please note that over 50% of this index is invested in China.

FTSE Emerging Markets Broad Bond Index (EMUSDBBI) for the emerging markets corporate bond market

List of Abbreviations used in charts:

IL = Inflation-linked bonds

IG = Investment-grade bonds

HY = High-yield bonds

BPS = Basis points

EM = Emerging market

LC = Local currency

Source: FTSE Russell. All data as of December 31, 2023. Past performance is no guarantee of future results. Please see the end for important legal disclosures. For professional investors only

Global Investment Research Market Maps



ABOUT FTSE RUSSELL

FTSE Russell is a leading global provider of index and benchmark solutions, spanning diverse asset classes and investment objectives. As a trusted investment partner we help investors make better-informed investment decisions, manage risk, and seize opportunities.

Market participants look to us for our expertise in developing and managing global index solutions across asset classes. Asset owners, asset managers, ETF providers and investment banks choose FTSE Russell solutions to benchmark their investment performance and create investment funds, ETFs, structured products, and index-based derivatives. Our clients use our solutions for asset allocation, investment strategy analysis and risk management, and value us for our robust governance process and operational integrity.

For over 35 years we have been at the forefront of driving change for the investor, always innovating to shape the next generation of benchmarks and investment solutions that open up new opportunities for the global investment community.

CONTACT US

To learn more, visit lseg.com/ftse-russell; email info@ftserussell.com; or call your regional Client Service team office:

EMEA +44 (0) 20 7866 1810 North America +1 877 503 6437 Asia-Pacific
Hong Kong +852 2164 3333

Tokyo +81 3 6441 1430 Sydney +61 (0) 2 7228 5659

© 2024 London Stock Exchange Group plc and its applicable group undertakings ("LSEG"). LSEG includes (1) FTSE International Limited ("FTSE"), (2) Frank Russell Company ("Russell"), (3) FTSE Global Debt Capital Markets Inc. and FTSE Global Debt Capital Markets Limited (together, "FTSE Canada"), (4) FTSE Fixed Income Europe Limited ("FTSE FI Europe"), (5) FTSE Fixed Income LLC ("FTSE FI"), (6) FTSE (Beijing) Consulting Limited ("WOFE") (7) Refinitiv Benchmark Services (UK) Limited ("RBSL"), (8) Refinitiv Limited ("RL") and (9) Beyond Ratings S.A.S. ("BR"). All rights reserved.

FTSE Russell® is a trading name of FTSE, Russell, FTSE Canada, FTSE FI, FTSE FI Europe, WOFE, RBSL, RL, and BR. "FTSE®", "Russell®", "FTSE Russell®", "FTSE4Good®", "ICB®", "Refinitiv", "Beyond Ratings®", "WMR™", "FR™" and all other trademarks and service marks used herein (whether registered or unregistered) are trademarks and/or service marks owned or licensed by the applicable member of LSEG or their respective licensors and are owned, or used under licence, by FTSE, Russell, FTSE Canada, FTSE FI, FTSE FI Europe, WOFE, RBSL, RL or BR. FTSE International Limited is authorised and regulated by the Financial Conduct Authority as a benchmark Services (UK) Limited is authorised and regulated by the Financial Conduct Authority as a benchmark administrator.

All information is provided for information purposes only. All information and data contained in this publication is obtained by LSEG, from sources believed by it to be accurate and reliable. Because of the possibility of human and mechanical inaccuracy as well as other factors, however, such information and data is provided "as is" without warranty of any kind. No member of LSEG nor their respective directors, officers, employees, partners or licensors make any claim, prediction, warranty or representation whatsoever, expressly or impliedly, either as to the accuracy, timeliness, completeness, merchantability of any information or LSEG Products, or of results to be obtained from the use of LSEG products, including but not limited to indices, rates, data and analytics, or the fitness or suitability of the LSEG products for any particular purpose to which they might be put. The user of the information assumes the entire risk of any use it may make or permit to be made of the information.

No responsibility or liability can be accepted by any member of LSEG nor their respective directors, officers, employees, partners or licensors for (a) any loss or damage in whole or in part caused by, resulting from, or relating to any inaccuracy (negligent or otherwise) or other circumstance involved in procuring, collecting, compiling, interpreting, analysing, editing, transcribing, transmitting, communicating or delivering any such information or data or from use of this document or links to this document or (b) any direct, indirect, special, consequential or incidental damages whatsoever, even if any member of LSEG is advised in advance of the possibility of such damages, resulting from the use of, or inability to use, such information.

No member of LSEG nor their respective directors, officers, employees, partners or licensors provide investment advice and nothing in this document should be taken as constituting financial or investment advice. No member of LSEG nor their respective directors, officers, employees, partners or licensors make any representation regarding the advisability of investing in any asset or whether such investment creates any legal or compliance risks for the investor. A decision to invest in any such asset should not be made in reliance on any information herein. Indices and rates cannot be invested in directly. Inclusion of an asset in an index or rate is not a recommendation to buy, sell or hold that asset nor confirmation that any particular investor may lawfully buy, sell or hold the asset or an index or rate containing the asset. The general information contained in this publication should not be acted upon without obtaining specific legal, tax, and investment advice from a licensed professional.

Past performance is no guarantee of future results. Charts and graphs are provided for illustrative purposes only. Index and/or rate returns shown may not represent the results of the actual trading of investable assets. Certain returns shown may reflect back-tested performance. All performance presented prior to the index or rate inception date is back-tested performance. Back-tested performance is not actual performance, but is hypothetical. The back-test calculations are based on the same methodology that was in effect when the index or rate was officially launched. However, back-tested data may reflect the application of the index or rate methodology with the benefit of hindsight, and the historic calculations of an index or rate may change from month to month based on revisions to the underlying economic data used in the calculation of the index or rate.

This document may contain forward-looking assessments. These are based upon a number of assumptions concerning future conditions that ultimately may prove to be inaccurate. Such forward-looking assessments are subject to risks and uncertainties and may be affected by various factors that may cause actual results to differ materially. No member of LSEG nor their licensors assume any duty to and do not undertake to update forward-looking assessments.

No part of this information may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without prior written permission of the applicable member of LSEG. Use and distribution of LSEG data requires a licence from LSEG and/or its licensors.

The information contained in this report should not be considered "research" as defined in recital 28 of the Commission Delegated Directive (EU) 2017/593 of 7 April 2016 supplementing Directive 2014/65/EU of the European Parliament and of the Council ("MiFID II") and is provided for no fee.