Fixed Income Insights

MONTHLY REPORT - May 2023 | UK EDITION

FOR PROFESSIONAL INVESTORS ONLY

End of tightening cycle beckons but sticky UK inflation remains key

Prompt action by regulators restricted banking contagion, allowing the Fed to raise rates by 25bp for inflation insurance, and the MPC may follow suit on May 11. Lower inflation allowed most govts and credits to retain Q1 gains in April but longer gilts remain overshadowed by 10% y/y UK inflation, and the flat yield curve.

Macro and policy backdrop - IMF still forecasts 2023 UK recession. Markets see US debt ceiling as tail risk only

IMF upgrades UK forecast but still a recession. Muted reaction to debt ceiling crisis may be due to successful 2011 resolution. (pages 2-3)

Yields, curves and spreads - Yields show further signs of a cyclical peak

US Treasury yields remained near 2023 lows in April, buoyed by macro and policy backdrop, loss of growth momentum and weaker housing. Sticky UK inflation remains the key issue for longer gilts. (pages 4-5)

Sovereign and climate bonds – Green bond issuance recovered strongly in Q1, spreads tightened After a tough 2022, when issuance fell back sharply, both sovereigns and corporate issuance rebounded in Q1. (page 6)

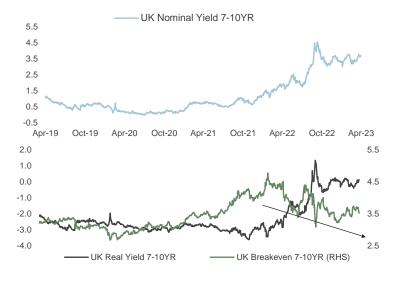
Performance – Sovereigns consolidated Q1 gains, and credit rallied on risk appetite, but JGBs and long gilts fell

Treasuries held onto Q1 gains, as inflation fell. JGBs and long gilts underperformed on weaker yen and higher UK rates threat. (pages 7-8)

Appendix (from page 10)

Chart 1: Despite UK inflation at over 10% y/y, inflation breakevens fell since the Ukraine spike in Q1, 2022, after aggressive MPC tightening.

Chart 2: The gold price rallied sharply on US banking woes in March, as it did during the early risk-off stages of Covid in 2020.





Source: FTSE Russell. All data as of April 30, 2023. Past performance is no guarantee of future results. This report should not be considered 'research' for the purposes of MIFID II. Please see the end for important legal disclosures. Bond market data is derived from FTSE Fixed Income Indices. See Appendix for list of indices used for each market.

Macroeconomic Backdrop – Growth and Inflation Expectations

IMF April growth forecasts generally show modest upgrades (since January) for 2023, though a UK recession is still forecast. Food prices and wage inflation are preventing faster declines in inflation rates in the UK, though Q2 base effects are favourable. Inflation forecasts for 2024 and breakevens remain stable around pre-Covid levels, close to 2%.

The UK continues to skirt recession, with growth close to zero, due to lagged effects of the energy price shock, negative real wage growth and fiscal tightening (Chart 1). US growth also slowed to 1.1% in Q1, due to weak housing, capex and manufacturing. Chinese growth out-turns in 2023/24 hinge on a successful transition to domestic-led growth, with a weak property sector a key risk.

Inflation in North America and Asia has fallen back quickly in 2023, helped by base effects and lower energy prices. European inflation has greater inertia, particularly the UK, increasing risks of more policy tightening, unless banking woes intervene (Chart 2).

Chart 3 shows UK wage growth slowing only modestly to 6.9% y/y in February, and unemployment at 3.8%, still near 50-year lows. Note that 400k workers have left the UK labour force since Covid, tightening the labour market further.

Inflows into money market funds, and out of bank deposits, were the main global fund flow after banking woes in March. Chart 4 shows the impact on money market inflows. However, neither equity nor credit markets have seen major impact, and money market flows normalised in April. However, March's banking turmoil may have tightened credit conditions.

Chart 1: IMF downgrades to UK and Japanese growth reflect labour shortages, and severe energy and inflation shocks. A stronger property sector may be needed for Chinese growth of 5%.

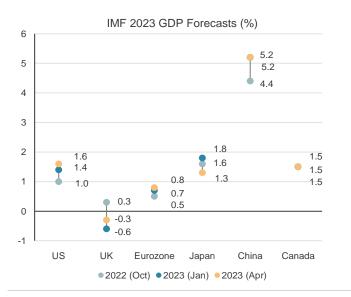


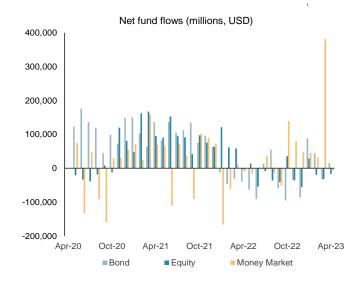
Chart 3: UK average earnings has slowed a little to 6.0% y/y, and real wage growth remains strongly negative, constraining consumer spending, and increasing UK recession risks.

12 7 10.410 6 8 5 6 6 4 4 37 3 2 2 0 -2 4°0115 feb-20 400-22 400-23 feb.17 400.2 400 400 400 UK Average Weekly Earnings Growth (YoY%, 3m Avg) ······ UK CPI (YoY%) UK Unemployment Rate (RHS, %)

Chart 2: Sharp falls in US and Canadian inflation in Q1 2023 are at odds with sticky inflation in Europe, with UK inflation still above 10% y/y. Asian inflation remains more modest, notably in China.

Consensus Inflation Forecasts (%, April 2023)											
	2023	Change Since Jan-23 (Bps)	2024	Change Since Jan-23 (Bps)							
US	4.1	40	2.5	0							
UK	6.5	-50	2.4	-10							
Eurozone	5.6	-40	2.6	10							
Japan	2.1	30	1.5	20							
China	2.3	0	2.3	0							
Canada	3.7	0	2.2	0							

Chart 4: The main fund flow, since US banking woes emerged in March, has been out of bank deposits into money market funds. However, since March, money market flows have normalised.



UK wage growth, inflation and unemployment rate

Financial Conditions and Monetary Policy Settings

Limited contagion from the US banking crisis allowed risk assets to rally again in April, despite the risk of further duration mismatches, and evidence from Fed surveys of tighter credit conditions. Regional inflation shows wide dispersion, due to differing food and energy shocks, but tight labour markets remain a global issue, extending tightening cycles.

UK M2 money growth turned negative y/y in recent months, as Chart 1 shows. The broadest UK money measures, like M4, show negative growth for the first time since 2015, as higher rates squeeze loan demand hard, despite some distress borrowing.

Regional inflation rates diverge widely, and UK inflation remains uncomfortably high for the BoE, only falling modestly from the 40 year high above 11% y/y in October 2022 (Chart 2). The severe energy and food shock, and corporate pass-through to consumer prices are the main factors in the UK, but the tight labour market remains an issue, with wage growth still at 6.0% y/y.

After a 25bp Fed rate increase on May 3, and limited contagion from banking woes, markets price in a further 25bp tightening move from the BoE in May, despite UK growth flat-lining and the BoE's forecast decline in inflation. The BoE has revealed a preference to trade off recession risks for inflation control, and is focussed on tight labour markets and preventing a change in inflation regime.

Central banks continue Quantitative Tightening (QT) programmes to supplement tightening, apart from the BoJ. Uncertainty about QT's impact is high, and the Fed's emergency lending in Q1 disrupted the programme (Chart 4). The BoE targets £80 bn reduction in gilt holdings in 2023, though there are no UK published estimates of the tightening impact in bp terms.

Chart 1: UK monetary aggregates have slowed sharply of late, including M2 (nominal M4 growth is now negative y/y), in response to higher rates, and despite some distress borrowing.

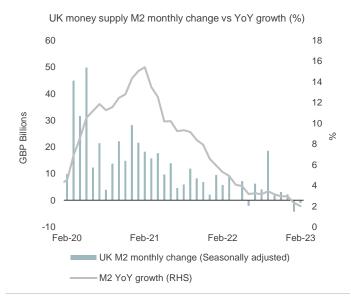


Chart 3: The Fed raised rates a further 25bpp on May 3, and may be followed by the BoE and ECB in May, who remain prepared to risk recessions for inflation control. The BoJ retains negative rates.

Central bank policy rates 6.0 55 5 25 5.0 45 4.25 4.0 3.5 3.5 3.0 % 2 75 2.5 2.0 1.5 1.0 0.5 0.0 -0.1 -0.5 Nov-20 May-21 Nov-21 May-22 Nov-22 Mav-23 May-20 FCB BoF - PBoC MI F 1Y Fed Bo.I

Chart 2: Wide dispersion in inflation rates continues The stickiness of UK inflation above 10% y/y stands out, even if Q2 base effects should allow it to fall y/y, as the Ukraine index effect drops out.

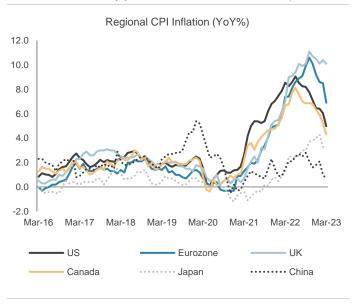
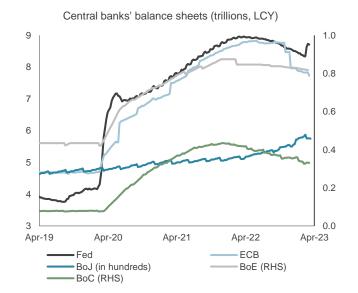


Chart 4: Central banks continue Quantitative Tightening (QT), apart from the BoJ, though the Fed's QT was interrupted by the provision of emergency liquidity to regional banks in March.



Global Yields, Curves and Spread Analysis

Chart 1: Nominal 7-10-year yields declined sharply in March, and a flight to quality developed. Markets stabilised in April, though the yield downtrend since October is intact.



Chart 3: G7 10s/2s yield curves steepened after March's banking woes emerged, and 2-year yields collapsed. But curve inversion, and flattening in Japan, resumed in April as 2-yr yields rebounded.

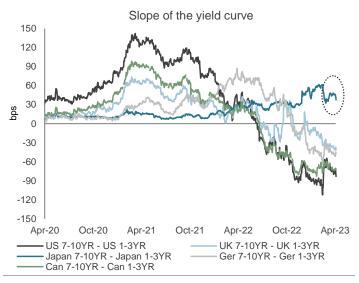


Chart 5: 7-10yr inflation breakevens stabilised near 2%, apart from the UK (due to the different RPI inflation index for accruals) & Japan. There has been little persisting impact from March's banking woes.

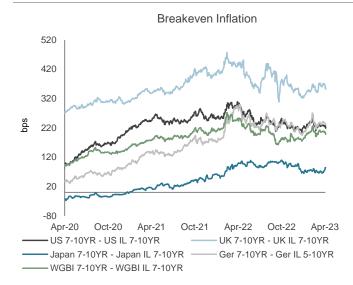


Chart 2: Real 7-10-year yields have also fallen since the banking crisis, though not as much as conventionals, as the latter proved a safe haven of choice. Real yields remain well above 2020/22 levels.

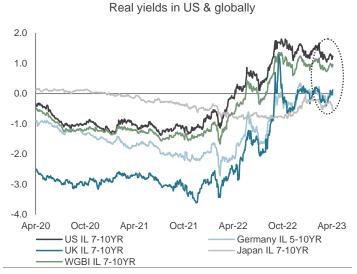


Chart 4: Like 10s/2s, the 20s+/2s yield curves resumed the 2021/23 flattening/inversion trend in April, after the brief March steepening. 2 year yields recovered as central banks signaled more tightening.

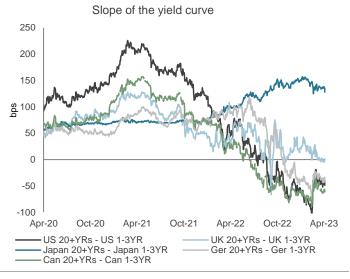


Chart 6: Short run inflation breakevens reacted more to March turmoil, and lower inflation prospects, if a credit crunch develops, though lower inflation rates in 2023 are also a factor.



Short, medium and longer term global inflation b/evens

Yield Spread and Credit Spread Analysis

Chart 1: US sovereign spreads have shown the typical pro-cyclical pattern in 2022/23, falling as growth slows, after increasing in the post-Covid reflation trade. Spreads versus the UK tightened most.

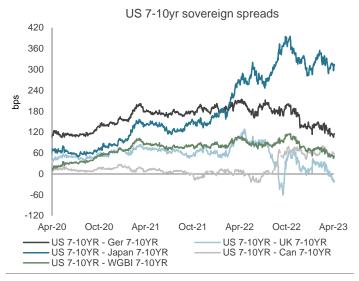
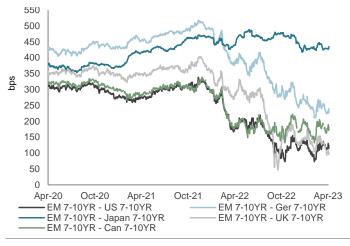
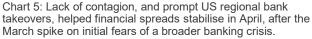


Chart 3: EM 7-10-year yield spreads widened a little in March, on fears cross-border flows may fall in a banking crisis, but moves were modest, and fell since, helped by a Fed offer of dollar swaps.

EM 7-10yr spreads vs US, Germany, Japan, UK, Canada





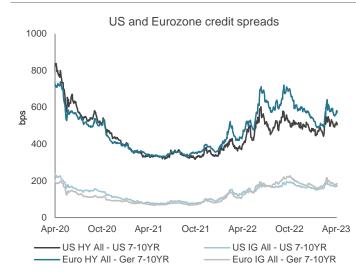


Chart 2: Peripheral Eurozone 7-10-year yield spreads reacted little to March's banking woes, though Italian spreads have widened since the ECB began signalling higher rates in Q2 2022.



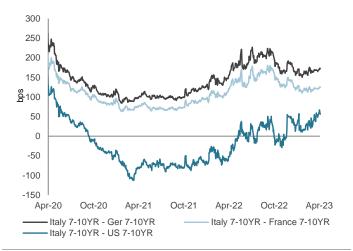
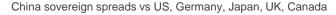


Chart 4: The modest spread widening in China 7-10-year sovereigns in March reversed in April, as Chinese inflation fell further, and nominal yields declined as a result.



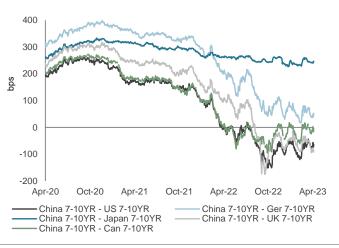


Chart 6: Although Chinese HY dollar spreads are well below the October 2022 peaks, helped by property sector support in China, they have widened sharply since March's US banking woes.





Source: FTSE Russell and Refinitiv. All data as of April 30, 2023. Past performance is no guarantee of future results. Please see the end for important legal disclosures. Bond market data is derived from FTSE Fixed Income Indices. See Appendix Glossary for list of indices. For professional investors only.

FTSE Russell | Fixed Income Insight Report - May 2023

Sovereign and Climate Bonds Analysis

Chart 1: After a major stress test of green bonds in 2022, when US green spreads widened sharply, led by HY, spreads have mean-reverted in 2023 to more normal spread levels, near 500bp in HY.

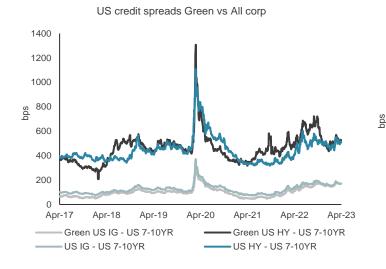


Chart 3: Overall, Green bond issuance fell more than other bonds in 2022, as yields and spreads rose. But Green issuance has rebounded in Q1 2023, and is at a new high versus total issuance.

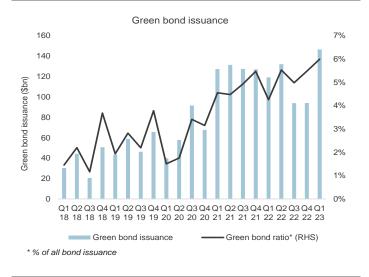


Chart 5: The currency composition of the FTSE Global Green index shows the high weighting of the Euro green bonds, at 68%, and the low US weighting, in contrast to the FTSE World BIG index.

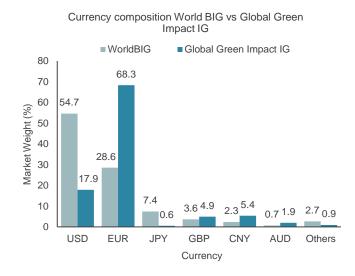


Chart 2: Unlike the US, the spread widening in HY Green Eurozone credits versus Bunds was modest in 2022, and there was no major spike. Spreads narrowed since the bond rally began in Q4 2022.

Eurozone credit spreads Green vs All corp



Chart 4: Within total Green bond issuance, Green corporates fell sharply, though issuance has recovered in Q1 2023, to an all-time high in absolute terms, as yields stabilized and spreads narrowed.

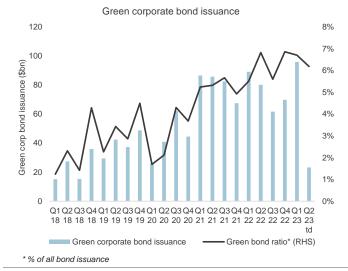
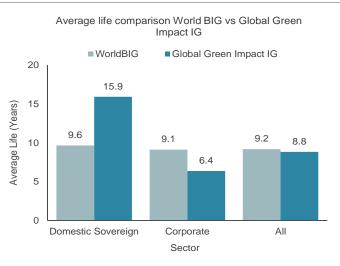


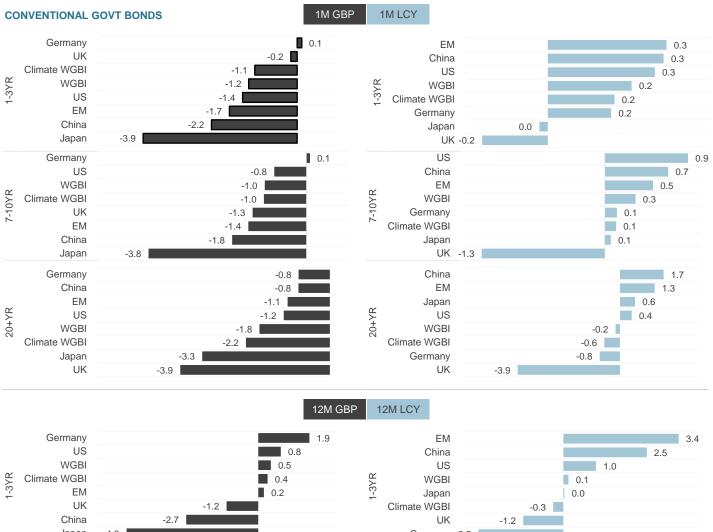
Chart 6: The higher Eurozone sovereign weighting in the Global Green (GG) index increases average life relative to World BIG, but this is offset by shorter average life of GG corporates.

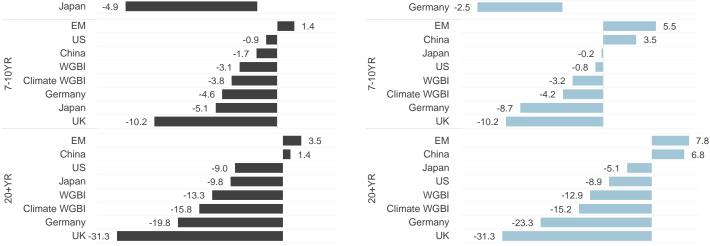


Sovereign bonds stabilised in April, after the strong rally in March. But sterling strength meant returns were mostly negative in shorts and mediums for a sterling-based investor, apart from JGBs, and longer gilts, which lost 3-4%. 12M returns show the damage from longer duration and higher policy rates in 2022, with losses of 9-31% in longs.

Only short Bunds avoided modest sterling losses in April, helped by the Euro. JGBs lost 3-4% across the curve, as the yen fell back on continuing BoJ curve control. Longer gilts lost up to 4%, as the MPC signaled more tightening.

12M returns remain deeply negative, led by longs but EM and China largely escaped with positive returns of 2-4% in GBP terms.





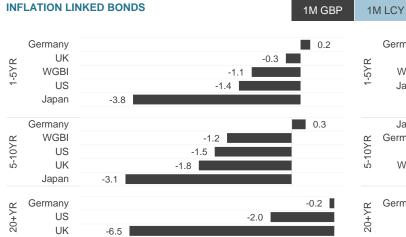
Global Inflation-Linked Bond Returns - 1M & 12M % (GBP, LC, TR) as of April 30, 2023

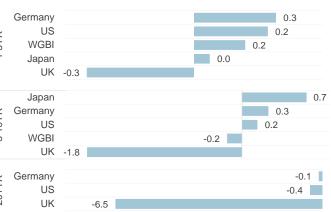
Global inflation-linked (IL) bonds showed modestly negative returns in April, in sterling terms, but long UK IL bonds and JGB IL bonds lost about 3-7%. Credit rallied a little after limited banking contagion, led by the Eurozone. 12M IL returns are dominated by the negative impact of long duration and rising rates. Shorter duration IG credits showed positive returns.

Although inflation-linked markets consolidated March gains in local currencies, only Bunds showed gains in sterling terms due to sterling strength. UK IL suffered after poor inflation data raised the threat of more MPC tightening, causing longs to lose 6.5%.

12M returns show losses of 17-40% in long IL bonds, in sterling terms, with ultra-long gilt index-linked bonds the worst performers.

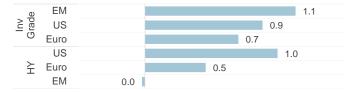
Euro and US high yield credits outperformed investment grade corporates on 12M, helped by shorter duration.

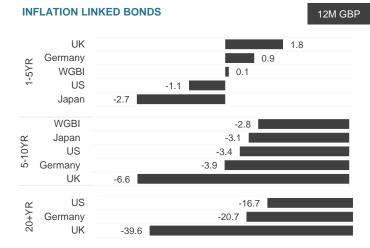


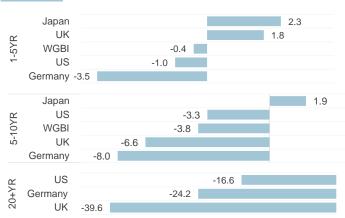


CORPORATE BONDS



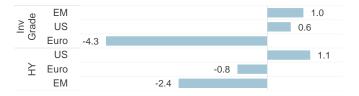






CORPORATE BONDS





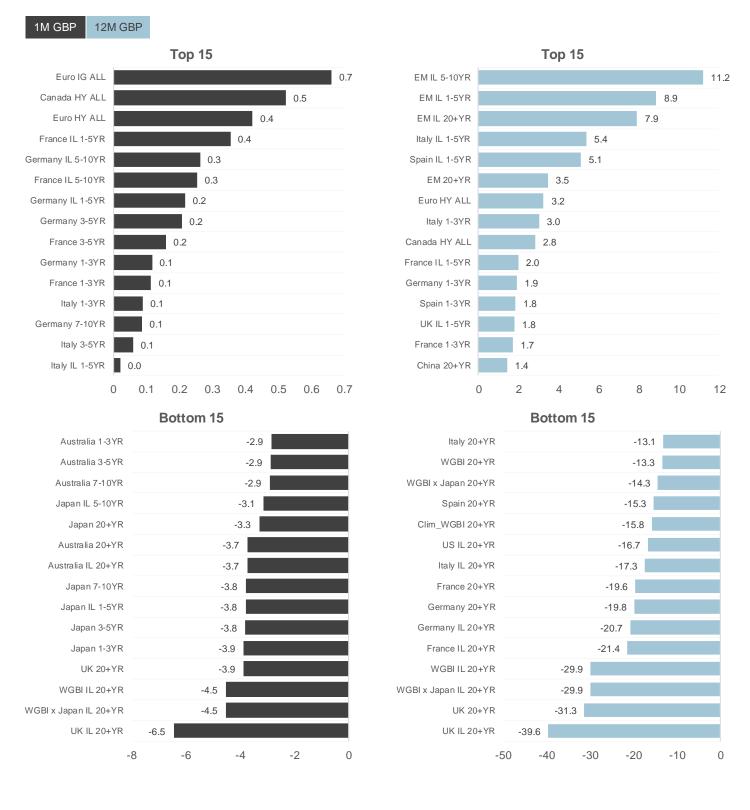
Source: FTSE Russell. All data as of April 30, 2023. Past performance is no guarantee of future results. Please see the end for important legal disclosures. Bond market data is derived from FTSE Fixed Income Indices. See Appendix Glossary for list of Indices used for each market. For professional investors only.

12M LCY

HY credits and short inflation-linked bonds performed best in April, led by Euro and Canada credits, though returns were only 0.4-1%, in GBP terms, due to sterling strength. EM inflation-linked remain best 12M performers. Longer IL gilts and JGBs showed the worst April returns, with losses of 4-7%. All bottom 15 performers on 12M are long-dated govt bonds.

Short to medium maturity bonds consolidated March gains in April, and HY credits and peripheral Eurozone bonds benefitted from risk appetite, as banking crisis contagion was limited. But sterling strength dampened overseas returns for a sterling investor.

On 12M, ultra-long duration in long gilts and inflation-linked bonds caused substantial losses in the 20+ year maturities, as rates rose, with losses of up to 40%. Long Tips and Eurozone bonds also lost 13-21% in sterling terms in the last twelve months.



Source: FTSE Russell. All data as of April 30, 2023. This analysis is taken from 100+ FTSE Russell sub-indices. Past performance is no guarantee of future results. Please see the end for important legal disclosures. Bond market data is derived from FTSE Fixed Income Indices. See Appendix Glossary for list of Indices used for each market. For professional investors only.

Government Bond Returns

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

		3	М	6	м	Y	ΓD	12	2M
		Local	GBP	Local	GBP	Local	GBP	Local	GBP
US	1-3YR	1.12	-0.96	2.68	-5.94	1.88	-2.50	0.96	0.85
	7-10YR	1.23	-0.85	7.00	-1.99	4.82	0.32	-0.81	-0.92
	20+YR	0.09	-1.97	12.59	3.13	7.72	3.09	-8.92	-9.02
	IG All	0.32	-1.74	9.17	0.00	4.49	0.00	0.62	0.51
	HY All	0.77	-1.30	5.33	-3.51	4.68	0.18	1.14	1.03
UK	1-3YR	-0.28	-0.28	0.62	0.62	0.35	0.35	-1.19	-1.19
	7-10YR	-1.43	-1.43	1.19	1.19	1.64	1.64	-10.23	-10.23
	20+YR	-5.24	-5.24	-6.30	-6.30	-1.10	-1.10	-31.26	-31.26
EUR	IG All	0.31	-0.13	3.49	5.89	2.57	1.54	-4.28	0.05
	HY All	0.17	-0.22	6.71	8.93	3.53	2.60	-0.79	3.25
Japan	1-3YR	0.09	-6.37	0.05	0.04	0.19	-7.08	0.03	-4.93
	7-10YR	2.06	-4.53	-0.01	-0.02	1.82	-5.57	-0.18	-5.12
	20+YR	8.86	1.83	3.71	3.70	8.13	0.28	-5.15	-9.85
China	1-3YR	0.67	-3.84	0.69	-2.83	0.81	-3.20	2.46	-2.70
	7-10YR	1.39	-3.15	0.76	-2.76	1.47	-2.56	3.49	-1.72
	20+YR	3.16	-1.45	1.13	-2.41	2.58	-1.49	6.81	1.44
EM	1-3YR	0.82	-2.78	1.82	-0.87	1.14	-1.88	3.40	0.21
	7-10YR	1.30	-2.12	4.78	1.41	2.82	-0.53	5.55	1.42
	20+YR	2.45	-1.79	4.27	0.68	3.16	-0.92	7.85	3.46
	IG All	0.77	-1.29	9.26	0.09	3.36	-1.08	0.96	0.85
	HY All	-2.74	-4.74	11.93	2.53	0.88	-3.45	-2.35	-2.46
Germany	1-3YR	1-3YR 0.44	0.01	-0.12	2.20	0.67	-0.34	-2.50	1.92
	7-10YR	0.32	-0.12	-0.22	2.10	3.03	2.00	-8.72	-4.58
	20+YR	-2.66	-3.08	-2.15	0.12	3.65	2.61	-23.26	-19.78
Italy	1-3YR	0.54	0.11	0.82	3.16	1.19	0.18	-1.45	3.02
	7-10YR	0.94	0.50	2.54	4.92	4.95	3.90	-6.11	-1.86
	20+YR	-1.29	-1.72	0.94	3.28	6.20	5.14	-16.85	-13.08
Spain	1-3YR	0.49	0.06	0.02	2.35	0.92	-0.09	-2.57	1.85
	7-10YR	0.40	-0.04	0.31	2.64	3.18	2.15	-7.63	-3.44
	20+YR	-2.56	-2.98	-1.58	0.70	2.95	1.92	-18.93	-15.26
France	1-3YR	0.47	0.04	-0.04	2.29	0.99	-0.02	-2.69	1.72
	7-10YR	0.00	-0.44	-0.54	1.77	2.94	1.91	-8.45	-4.30
	20+YR	-3.77	-4.19	-2.82	-0.56	2.43	1.40	-23.04	-19.55
Sweden	1-3YR	-0.13	-0.15	0.18	-1.14	0.75	-2.06	-0.82	-5.42
	7-10YR	-1.50	-1.52	0.09	-1.23	1.26	-1.56	-3.44	-7.91
	20+YR					0.00	0.00	0.00	0.00
Australia	1-3YR	0.88	-7.33	1.83	-3.59	1.73	-5.12	1.97	-5.28
	7-10YR	2.51	-5.84	5.07	-0.53	7.00	-0.21	1.99	-5.26
	20+YR	2.34	-5.99	6.08	0.43	10.60	3.14	-3.73	-10.58
NZ	1-3YR	0.88	-5.56	1.43	-1.21	1.88	-4.78	1.43	-3.58
	7-10YR	1.23	-5.23	2.88	0.20	4.45	-2.38	0.47	-4.50
Canada	1-3YR	0.91	-2.76	2.38	-5.69	1.89	-2.59	1.35	-4.60
	7-10YR	1.39	-2.30	5.05	-3.22	4.69	0.09	3.17	-2.89
	20+YR	1.41	-2.28	8.15	-0.37	7.52	2.79	0.52	-5.38

Source: FTSE Russell. All data as of April 30, 2023. Past performance is no guarantee of future results. Please see the end for important legal disclosures. Bond market data is derived from FTSE Fixed Income Indices. See Appendix Glossary for list of indices used for each market. For professional investors only.

Top 15% Bottom 15%

Inflation-Linked Bond Returns

Green highlight indicates top 15%, red indicates bottom 15%.

		3	м	6	M	Y	ΓD	12	2M
		Local	GBP	Local	GBP	Local	GBP	Local	GBP
US	1-5YR	1.74	-0.35	2.76	-5.87	2.58	-1.83	-1.01	-1.12
	5-10YR	1.80	-0.29	5.12	-3.71	5.87 2.58 3.71 4.41 0.88 6.76 0.06 0.70 4.43 2.50 3.02 -1.58 0.06 0.98 0.95 2.97 6.67 7.06 0.08 0.91 0.25 1.34 0.34 3.39 .90 3.42 .16 4.15 .06 0.98 .95 2.97 .67 7.06 .25 1.34 0.34 3.39 .90 3.42 .16 4.15 .06 0.98 .95 2.97 .67 7.06 .22 1.48 .25 4.59 .56 10.85 .51 1.21 .43 2.52 .73 1.29 .93 3.11 .35 5.22 .19 0.58 .41 7.74 .90 12.60 <td>-0.07</td> <td>-3.29</td> <td>-3.40</td>	-0.07	-3.29	-3.40
	20+YR	0.40	-1.66	8.21	-0.88	6.76	2.18	-16.57	-16.66
UK	1-5YR	1.18	1.18	1.06	1.06	0.70	0.70	1.79	1.79
	5-10YR	0.77	0.77	3.43	3.43	2.50	2.50	-6.57	-6.57
	20+YR	-7.46	-7.46	-6.02	-6.02	-1.58	-1.58	-39.60	-39.60
EUxUK	1-5YR	0.93	0.49	-0.25	2.06	0.98	-0.03	-3.48	0.90
	5-10YR	1.45	1.01	0.62	2.95	2.97	1.94	-8.04	-3.87
	20+YR	0.66	0.22	1.31	3.67	7.06	5.99	-24.17	-20.73
Japan	1-5YR	0.42	-6.06	1.09	1.08	0.91	-6.42	2.34	-2.74
	5-10YR	2.48	-4.13	0.26	0.25	1.34	-6.02	1.93	-3.12
EM	1-5YR	2.49	1.14	3.99	-0.34	3.39	2.63	13.30	8.87
	5-10YR	3.65	2.61	5.90	1.90	3.42	2.74	15.12	11.21
	20+YR	4.66	4.19	6.46	4.16	4.15	4.77	6.48	7.91
Germany	1-5YR	0.93	0.49	-0.25	2.06	0.98	-0.03	-3.48	0.90
Cermany	5-10YR	1.45	1.01	0.62	2.95	2.97	1.94	-8.04	-3.87
	20+YR	0.66	0.22	1.31	3.67	7.06	5.99	-24.17	-20.73
Italy	1-5YR	1.23	0.79	1.86	4.22	1.48	0.47	0.81	5.38
	5-10YR	2.06	1.62	3.84	6.25	4.59	3.54	-3.55	0.82
	20+YR	1.10	0.66	4.14	6.56	10.85	9.74	-20.92	-17.33
Spain	1-5YR	1.10	0.66	1.16	3.51	1.21	0.19	0.55	5.11
	5-10YR	1.44	1.00	1.08	3.43	2.52	1.50	-5.00	-0.70
France	1-5YR	1.27	0.83	0.40	2.73	1.29	0.27	-2.45	1.98
	5-10YR	1.76	1.32	0.60	2.93	3.11	2.08	-6.65	-2.42
	20+YR	-1.20	-1.62	0.03	2.35	5.22	4.17	-24.76	-21.35
Sweden	1-5YR	-0.57	-0.60	1.14	-0.19	0.58	-2.22	2.51	-2.24
	5-10YR	-1.85	-1.87	-0.83	-2.13	0.09	-2.70	-3.86	-8.31
Australia	1-5YR	2.27	-6.05	4.64	-0.94	4.35	-2.68	6.74	-0.85
	5-10YR	2.61	-5.75	7.13	1.41	7.74	0.48	6.07	-1.47
	20+YR	-0.89	-8.96	8.69	2.90	12.60	5.01	-4.22	-11.04
NZ	5-10YR	3.50	-3.11	7.85	5.03	6.36	-0.59	5.63	0.41
	20+YR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Canada	20+YR	-1.14	-4.74	2.89	-5.21	0.57	-3.85	0.02	-5.86

Source: FTSE Russell. All data as of April 30, 2023. Past performance is no guarantee of future results. Please see the end for important legal disclosures. Bond market data is derived from FTSE Fixed Income Indices. See Appendix Glossary for list of indices used for each market. For professional investors only.

Top 15% Bottom 15%

Global Bond Yields

Green highlight indicates top 15%, red indicates bottom 15%.

		Conv	entional go	overnment k	onds	Inflat	ion-linked b	onds	Inv Grade	High Yld
		1-3YR	3-5YR	7-10YR	20+YR	1-5YR	5-10YR	20+YR	All Mat	All Mat
US	Current	4.24	3.62	3.41	3.75	1.68	1.23	1.58	5.15	8.50
	3M Ago	4.35	3.74	3.46	3.71	1.85	1.32	1.54	5.01	8.23
	6M Ago	4.58	4.37	4.05	4.34	1.76	1.65	1.84	5.97	8.97
	12M Ago	2.60	2.93	2.90	3.07	-1.34	-0.20	0.46	4.33	6.98
UK	Current	4.05	3.77	3.64	4.02	0.39	0.14	0.63		
	3M Ago	3.42	3.26	3.33	3.70	0.31	0.00	0.30		
	6M Ago	3.38	3.55	3.56	3.62	-2.33	-0.13	0.24		
	12M Ago	1.63	1.62	1.87	2.08	-4.34	-2.71	-1.44		
Japan	Current	-0.07	0.02	0.30	1.20	-1.31	-0.63			
	3M Ago	-0.02	0.11	0.52	1.55	-1.33	-0.34		4.33	
	6M Ago	-0.06	0.02	0.24	1.31	-1.37	-0.81			
	12M Ago	-0.06	-0.01	0.22	0.95	-1.46	-0.85			
China	Current	2.28	2.51	2.78	3.17					
	3M Ago	2.30	2.57	2.87	3.31					
	6M Ago	1.93	2.30	2.68	3.15					
	12M Ago	2.21	2.47	2.83	3.36					
EM	Current	3.74	4.37	4.66	4.46	3.84	4.04	5.15	5.61	11.71
	3M Ago	3.59	4.30	4.76	4.57	3.11	3.37	5.25	5.52	10.25
	6M Ago	3.67	4.37	5.03	4.77	1.66	3.00	5.23	6.70	13.96
	12M Ago	3.49	4.30	4.85	4.95	1.88	2.93	4.94	4.58	10.52
Germany	Current	2.72	2.35	2.25	2.37	0.16	-0.06	-0.11		
Connuny	3M Ago	2.59	2.31	2.21	2.22	0.38	0.13	-0.09		
	6M Ago	1.94	1.95	2.07	2.22	-0.76	-0.35	-0.17		
	12M Ago	0.15	0.56	0.86	1.18	-2.14	-1.50	-1.01		
Italy	Current	3.36	3.49	3.97	4.45	0.80	1.65	1.83		
nary	3M Ago	3.17	3.42	3.92	4.29	1.18	1.87	1.85		
	6M Ago	2.82	3.30	3.95	4.36	0.25	1.64	1.84		
	12M Ago	0.82	2.13	3.00	3.54	-2.01	0.41	1.39		
France	Current	2.84	2.66	2.73	3.23	-0.06	0.17	0.58		
Tranoc	3M Ago	2.71	2.58	2.64	3.01	0.24	0.30	0.52		
	6M Ago	2.15	2.20	2.44	3.02	-0.91	-0.16	0.46		
	12M Ago	0.32	1.18	1.67	2.35	-3.14	-1.32	-0.18		
Sweden	Current	2.89	2.59	2.31	0.00	0.71	0.73			
	3M Ago	2.50	2.27	2.05		-0.17	0.14			
	6M Ago	2.34	2.38	2.25		-0.59	-0.17			
	12M Ago	1.15	2.06	1.99		-1.48	-1.14			
Australia	Current	3.13	3.05	3.30	3.88	0.09	0.84	1.50		
	3M Ago	3.17	3.24	3.51	3.96	0.23	0.92	1.37		
	6M Ago	3.21	3.35	3.70	4.10	-0.01	1.05	1.67		
	12M Ago	2.31	3.78	4.05	4.30	0.09	1.32	1.94		
NZ	Current	4.89	4.15	4.08	4.23	0.95	1.61	0.00		
	3M Ago	4.67	4.18	4.11	4.41	1.28	1.79			
	6M Ago	4.31	4.28	4.18	4.44	1.43	2.04			
	12M Ago	3.11	3.80	4.00	4.28	0.86	1.83			
Canada	Current	3.55	5.00	2.83	2.94			1.26	4.84	7.37
Callaud	3M Ago	3.68		2.00	3.00			1.20	4.83	6.99
	6M Ago	3.81		3.29	3.35			1.38	5.42	7.60
	0.00.90	0.01		0.20	5.00			1.00	0.12	1.00

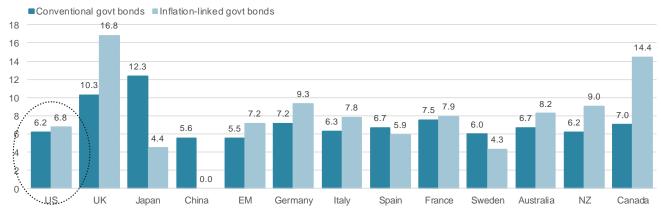
Source: FTSE Russell. All data as of April 30, 2023. Past performance is no guarantee of future results. Please see the end for important legal disclosures. Bond market data is derived from FTSE Fixed Income Indices. See Appendix Glossary for list of indices used for each market. For professional investors only.

Top 15% Bottom 15%

Appendix – Duration and Market Value (USD, Bn) as of April 30, 2023

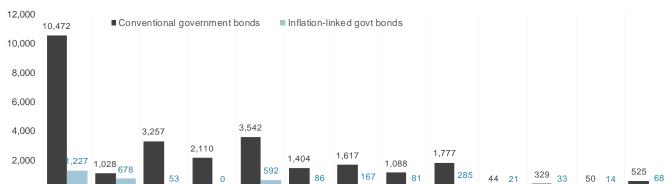
			Conve	ntional g	Inflation-linked government bonds									
		Durat	ion			Marke	t Value			Duration		N	/arket Valu	ue
	3-5YR	7-10YR	20+YR	Overall	3-5YR	7-10YR	20+YR	Total	5-10YR	20+YR	Overall	5-10YR	20+YR	Total
US	3.7	7.6	17.6	6.2	2,276.4	1,094.8	1,326.9	10,472.5	7.0	21.9	6.8	412.7	125.8	1227.4
UK	3.7	7.6	19.1	10.3	128.4	144.8	297.9	1,027.9	6.8	28.6	16.8	130.2	262.4	678.3
Japan	4.0	7.9	24.0	12.3	351.4	365.7	725.9	3,256.9	7.4		4.4	19.1		53.1
China	3.6	7.4	17.6	5.6	445.8	352.3	242.9	2,110.3						
EM	3.5	6.9	15.9	5.5	716.19	633.09	338.43	3,541.6	5.6	13.6	7.2	123.5	149.6	591.9
Germany	3.8	7.8	20.6	7.2	301.47	213.64	152.49	1,403.7	6.7	22.1	9.3	31.0	19.2	86.2
Italy	3.7	7.3	16.4	6.3	317.51	248.17	146.35	1,617.4	6.6	26.6	7.8	55.9	5.5	167.4
Spain	3.6	7.4	17.4	6.7	211.49	192.08	104.18	1,087.8	7.1		5.9	22.7		81.2
France	3.6	7.6	20.1	7.5	342.31	355.24	214.42	1,776.7	6.9	24.6	7.9	103.0	20.7	285.4
Sweden	3.4	7.9		6.0	7.78	9.28		44.3	6.1		4.3	9.9		21.3
Australia	3.5	7.7	18.1	6.7	55.88	90.14	16.22	329.4	7.4	22.8	8.2	9.7	2.8	33.2
NZ	3.3	7.2	17.6	6.2	9.03	9.31	2.48	50.0	6.5		9.0	3.2		14.2
Canada		7.3	16.9	7.0		166.20	111.10	524.5		14.4	14.4		68.4	68.4

	Investment grade bonds											
			Duration					Duration	MktVal			
	AAA	AA	А	BBB	Overall	AAA	AA	А	BBB	Overall		
US	11.2	8.7	7.3	6.9	7.2	75.7	454.0	2,530.7	3,387.0	6,447.5	4.1	1,148.6
Euro	6.1	5.0	4.7	4.3	4.5	10.6	186.9	1,135.3	1,487.3	2,820.0	3.1	432.9
EM		5.8	4.9	5.0	5.0		44.41	224.75	346.1	615.3	3.3	191.9



Total Market Value (USD Billions)

Average Duration



Data as of 2023-04-28

Canada

NZ

Australia

Source: FTSE Russell. All data as of April 30, 2023. Past performance is no guarantee of future results. Please see the end for important legal disclosures. Bond market data is derived from FTSE Fixed Income Indices. See Appendix Glossary for list of indices used for each market. For professional investors only.

Italy

Spain

France

Sweden

Germany

FTSE Russell | Fixed Income Insight Report - May 2023

Japan

China

ΕM

0

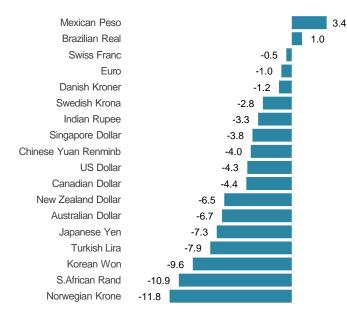
US

UK



FX Moves vs GBP - YTD

FX Moves vs GBP - 1M

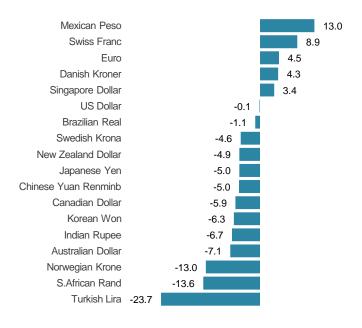


FX Moves vs GBP - 12M

FX Moves vs GBP - 3M

21

1.1



Appendix – Glossary

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

FTSE ESG World Government Bond Index for the global government bond markets with an ESG tilt

FTSE Climate Risk-Adjusted World Government Bond Index (Climate WGBI) and FTSE Advanced Climate Risk-Adjusted World Government Bond Index (Advanced Climate WGBI) for each country's relative exposure to climate risk, with respect to resilience and preparedness to the risks of climate change

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 April 30, 2023. Past performance is no guarantee of future results. Please see the end for important legal disclosures. For professional investors only.



© 2023 London Stock Exchange Group plc and its applicable group undertakings (the "LSE Group"). The LSE Group 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) The Yield Book Inc ("YB") and (7) 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, YB and BR. "FTSE®", "Russell®", "FTSE Russell®", "FTSE4Good®", "ICB®", "The Yield Book®", "Beyond Ratings®" 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 the LSE Group or their respective licensors and are owned, or used under licence, by FTSE, Russell, FTSE Canada, FTSE FI, FTSE FI Europe, YB or BR. FTSE International 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 the LSE Group, from sources believed by it to be accurate and reliable. Because of the possibility of human and mechanical error as well as other factors, however, such information and data is provided "as is" without warranty of any kind. No member of the LSE Group 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 of results to be obtained from the use of FTSE Russell products, including but not limited to indexes, data and analytics, or the fitness or suitability of the FTSE Russell products for any particular purpose to which they might be put. Any representation of historical data accessible through FTSE Russell products is provided for information purposes only and is not a reliable indicator of future performance.

No responsibility or liability can be accepted by any member of the LSE Group 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 error (negligent or otherwise) or other circumstance involved in procuring, collecting, compiling, interpreting, analysing, editing, 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 the LSE Group is advised in advance of the possibility of such damages, resulting from the use of, or inability to use, such information.

No member of the LSE Group 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 the LSE Group 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. Indexes cannot be invested in directly. Inclusion of an asset in an index 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 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.

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.

Past performance is no guarantee of future results. Charts and graphs are provided for illustrative purposes only. Index 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 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 was officially launched. However, back-tested data may reflect the application of the index methodology with the benefit of hindsight, and the historic calculations of an index may change from month to month based on revisions to the underlying economic data used in the calculation of the index.

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 the LSE Group 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 the LSE Group. Use and distribution of the LSE Group data requires a licence from FTSE, Russell, FTSE Canada, FTSE FI, FTSE FI Europe, YB, BR and/or their respective licensors.

Refinitiv content is the intellectual property of Refinitiv. Any copying, republication or redistribution of Refinitiv content, including by caching, framing or similar means, is expressly prohibited without the prior written consent of Refinitiv. Refinitiv is not liable for any errors or delays in content, or for any actions taken in reliance on any content.