

21st January 2025



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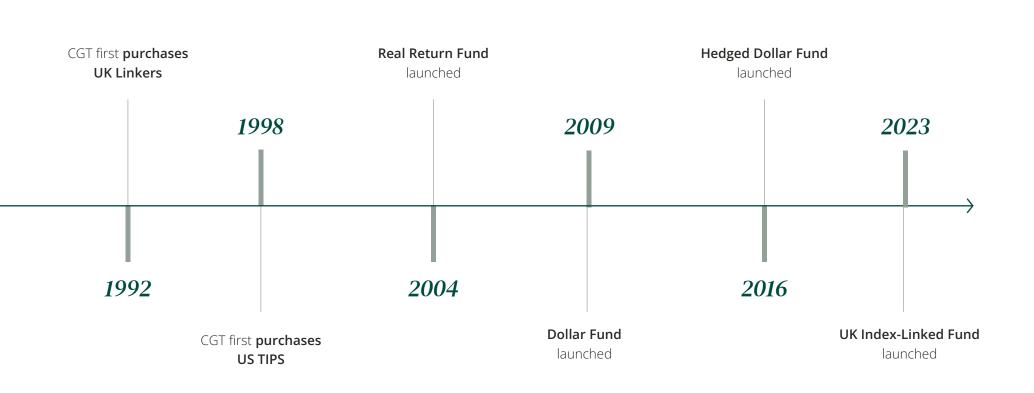


Why CG Asset Management? CG Asset Management is an experienced and well-established participant in index-linked bond markets globally

- CGAM has been investing in index-linked bonds for over 30 years
- CGAM currently manages £1.6bn in index-linked bond funds globally
- CGAM's US and global index-linked bond funds have outperformed their benchmarks since inception
- CGAM's UK index-linked holdings have outperformed the index in recent years
- CGAM has established relationships with a wide network of trading counterparties in indexlinked bonds, allowing us to access greater liquidity in less liquid government bond markets
- Despite deep sector experience, CGAM is a low-cost provider of index-linked expertise



CGAM has a long pedigree of investing in index-linked bonds





Why CG Asset Management? Our established index-linked funds have outperformed their benchmarks since their inception, and we manage approx. £1.6 bn in index-linked globally



Dollar Fund – Performance since inception

Real Return - Performance since inception

Source: Bloomberg Finance LP, Northern Trust



Overview Funds Summary

Strategy	Fund	ISIN	Launched	AUM ⁶	Dealing Frequency	AMC Fee	TER
Absolute Return Long only investments in a portfolio of bonds, equities and commodities	Capital Gearing Trust	GB0001738615	1982 ¹	£930m	Listed	0.40% ³	0.55%
	CG Absolute Return (EUR Hedged, USD Hedged available)	IE00BYQ69B30	2016	£810m	Daily	0.35%	0.47%
	Capital Gearing Portfolio (P,V shares)	IE00BG5Q6F12	2001	£240m	Daily	0.75%	0.87%
Real Return Long only investments in index linked bonds	CG Real Return Fund (GBP Hedged available)	IE0034304117	2004	£370m	Daily	0.30% / 0.20% ⁴	0.41%
	CG Dollar Fund (GBP Hedged, EUR Hedged and USD Unhedged available)	IE00B41GP767	2009	£550m	Daily	0.25% / 0.15% ⁵	0.37%
	CG UK Index-Linked Bond Fund	IE000ZSVG218	2023	£12m	Daily	0.15%	0.35%

¹ Peter Spiller began managing Capital Gearing Trust in 1982; ² Capital Gearing Trust is an Investment Trust listed on the London Stock Exchange, all other funds are Open Ended UCITS listed on the Dublin Stock Exchange;³ Tiered fee structure, marginal rate is 0.3% above £500m; ⁴ 0.3% below £500m, 0.2% above; ⁵ 0.25% below £1,000, 0.15% above; ⁶ As of 31 December 2024



Will inflation be higher or lower?

Peter Spiller

January 2025



Higher for longer We have been through a multi-year period of elevated inflation, and although <u>headline measures are closer to target...</u>

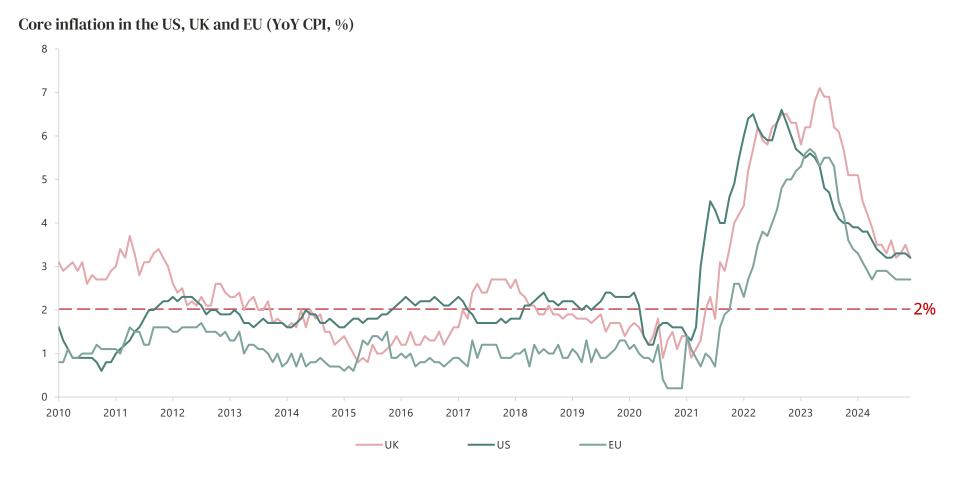
Headline inflation in the US, UK and EU (YoY CPI, %)





Higher for longer

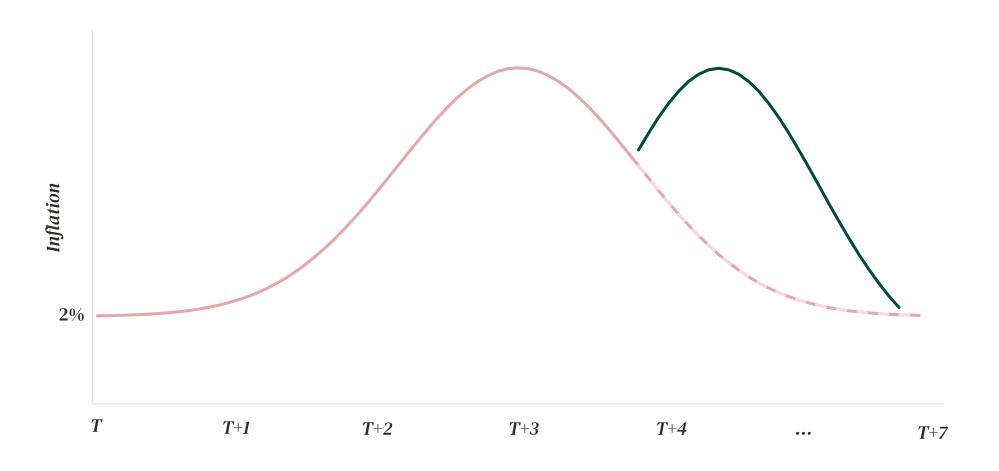
...measures of core inflation persist at elevated levels





Higher for longer

The key question is where inflation goes from here: one wave or two?





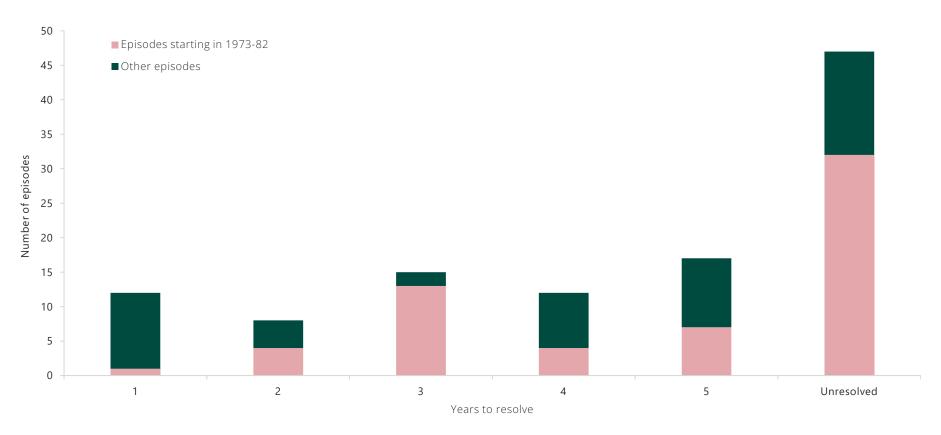
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#1 Inflation is persistent, especially after a terms of trade shock

INTERNATIONAL MONETARY FUND (2023) SEVEN STYLISED FACTS

Higher for longer Historical experience indicates that inflation shocks take a very long time to resolve

Years until inflation declines to within 1% of its pre-shock rate



Source: One Hundred Inflation Shocks: Seven Stylized Facts (International Monetary Fund, 2023). An inflation shock is a country-year pair where the average annual inflation rate rises by at least two percentage points. Inflation shocks are categorised as having been 'resolved' if inflation falls to whin 1 percentage point of its pre-shock rate by the end of our 5-year window.

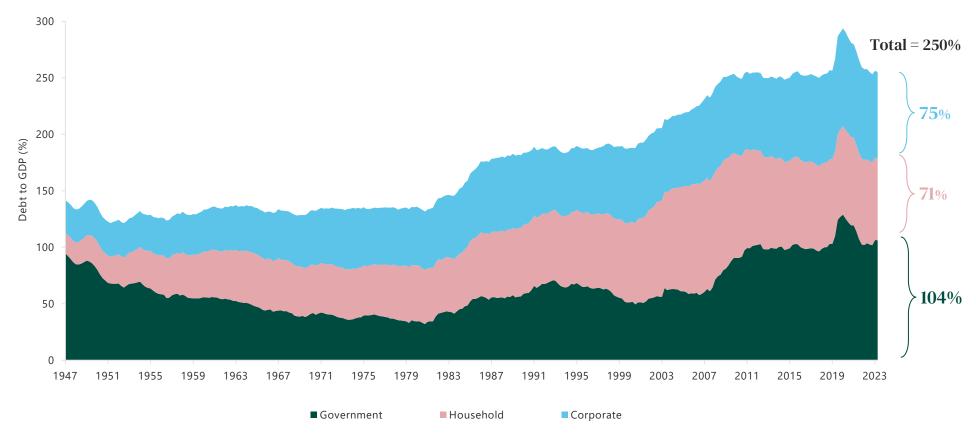


#2 Most unresolved inflation involved "premature celebrations"

INTERNATIONAL MONETARY FUND (2023) SEVEN STYLISED FACTS

Higher for longer Decades of expansionary monetary policy have encouraged a build up of debt. The most likely path from here is financial repression

US Non-Financial Debt to GDP

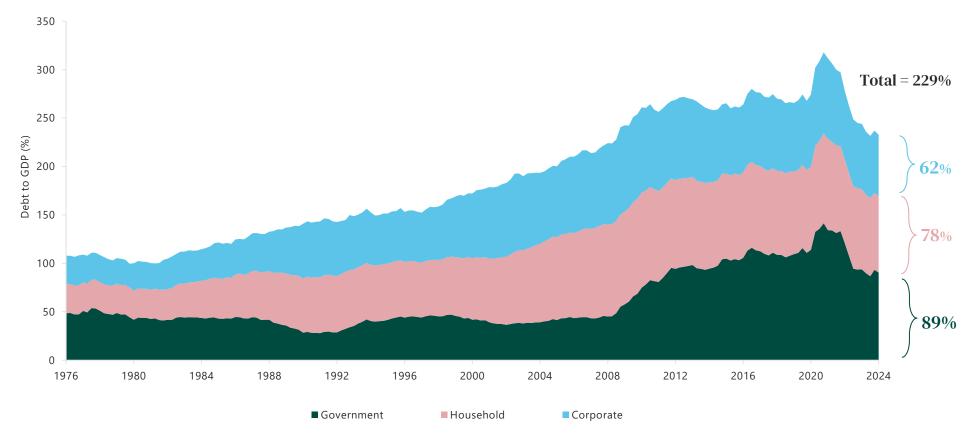


Source: Bank for International Settlements



Higher for longer ...and last week's gilt yield reaction to weaker-than-expected UK growth suggests that markets also expect financial repression in the UK

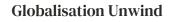
UK Non-Financial Debt to GDP



Source: Bank for International Settlements



Higher for longer We believe that the disinflationary era that has characterised the last 25 years has come to an end



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- Deflationary tailwind of globalisation diminishing as China wages approach those of developed economies
- Reshoring will increase costs
- Significant capex required to bring about reshoring will be inflationary

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Energy Transition

- Energy transition will require massive capital investment
- Likely to generate a shortage of key materials notably copper and other metals
- Requires decommissioning of otherwise productive assets

War / Defence

- Defence spending will rise globally in response to Russian war in Ukraine
- Trade will continue to flow along political rather than economic lines
- Massive rebuilding programme for Ukraine will be required

Capital vs. Labour

- Labour share of GDP has
 been falling
- Unionisation and union assertiveness is rising in response to recent inflation



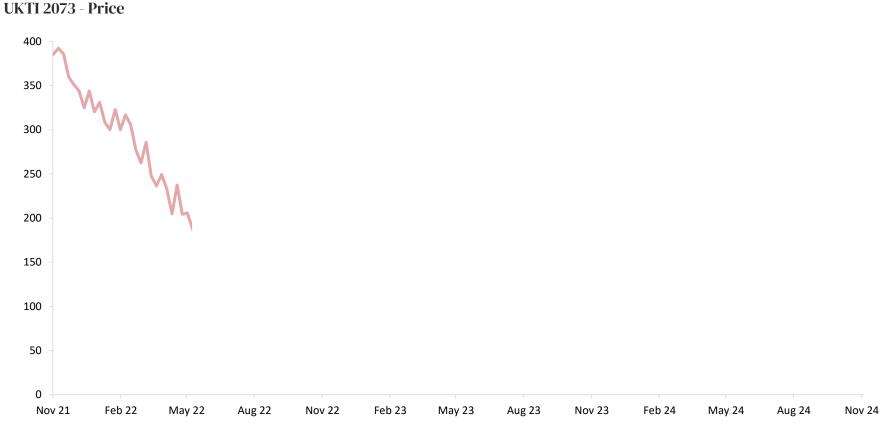


Chris Clothier

Jan 2025

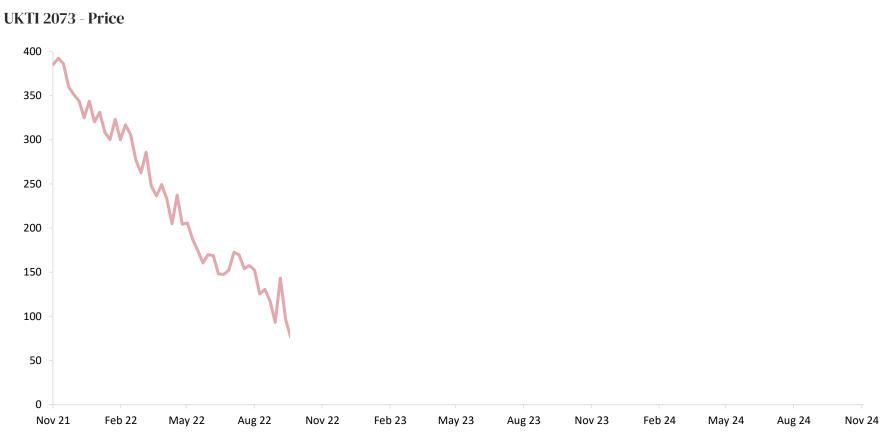


If you pay too much for an asset you are likely to get a pretty poor result. indeed the 2073 halved within 6 months of issuance...



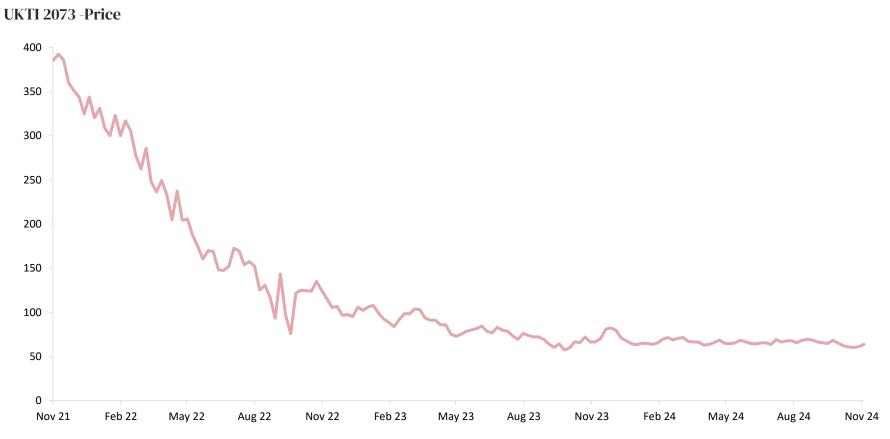


... halved again in just another 3 months...





... before finally halving one last time!





AUST 2120 - price

Some people decided it would be a good idea to lend to the Austrian government for 100 years for a nominal return of PRECISELY zero

120 What were you thinking? 100 80 60 40 20 0 Jun 20 Jun 22 Dec 22 Jun 23 Dec 20 Jun 21 Dec 21 Dec 23 Jun 24 Dec 24

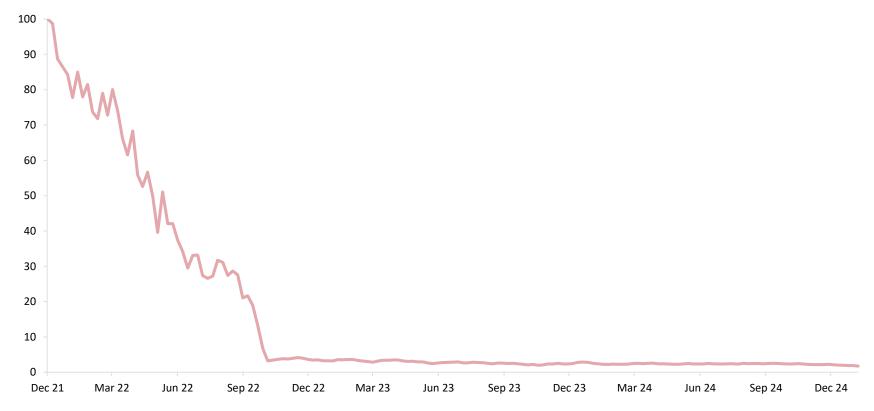


When you combine ignorance and leverage, you get some interesting results"

> SOME GUY FROM OMAHA

Liability investing working exactly like it is supposed to?

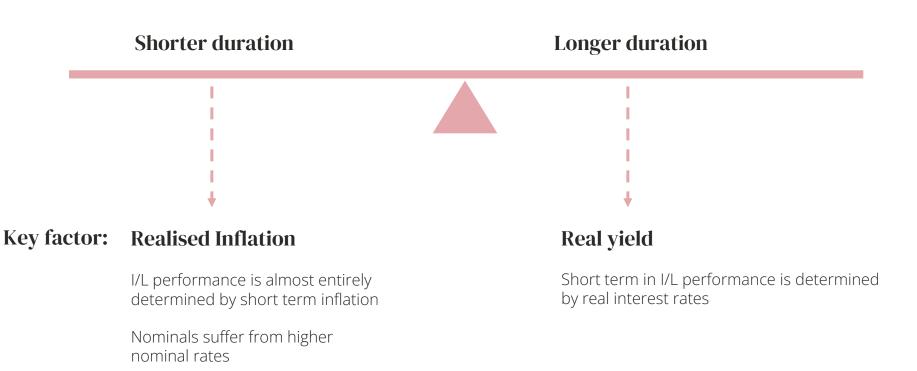
Un-named "Investment Consultant" LDI Fund – Share Price Performance







Living in the real world Why did index-linked bonds go down in 2022 when inflation was at a 40 year high?

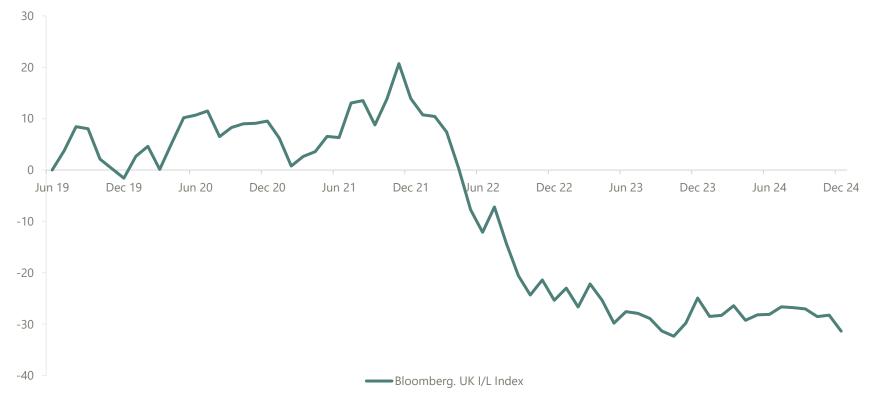


Source: CGAM



Living in the Real World Our holdings of UK linkers have dramatically outperformed the index in recent years

CG Performance - UK Linker Holdings vs. Index

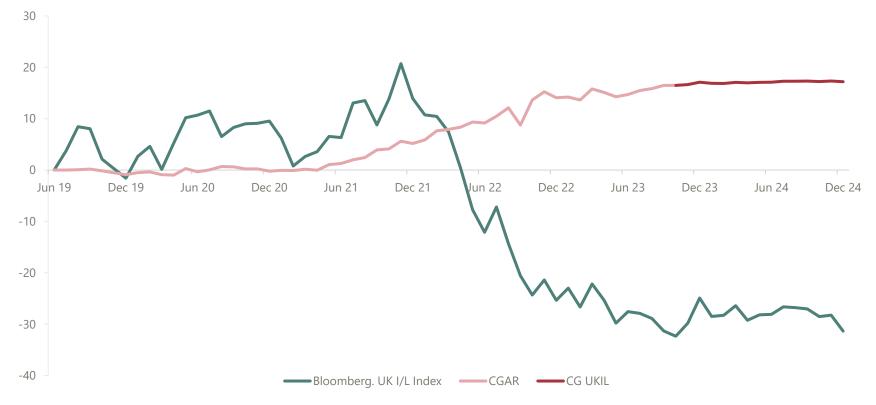


Source: Bloomberg Finance LP, Northern Trust.



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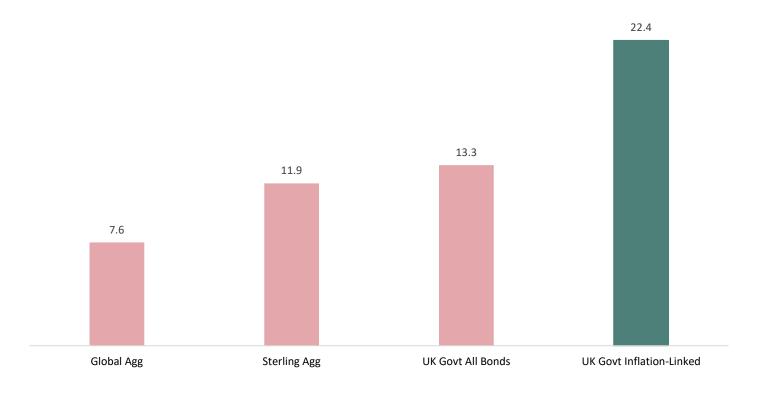


Source: Bloomberg Finance LP, Northern Trust.



Living in the Real World Long duration and low yields was not a good recipe

Duration – Selected Major Fixed Income Indices – Nov 21

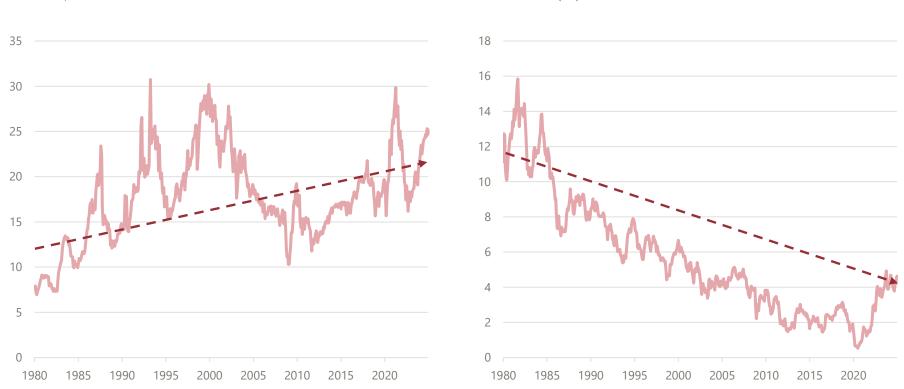




1. Equities 2. Nominal bonds 3. Index linked Bonds 4. Gold 5. Bitcoin

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Living in the Real World Asset allocation has been easy over the past 40 years ... an era characterized by falling inflation



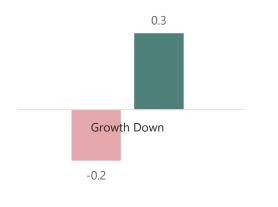
US 10Y Yield (%)

Source: Bloomberg LP

S&P500 P/E Ratio



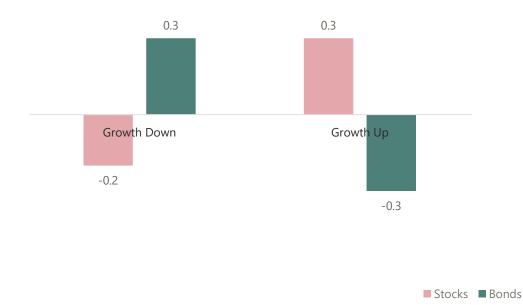
Sharpe Ratio Differentials by Macro-economic Environment 1972-2022



Stocks Bonds



Sharpe Ratio Differentials by Macro-economic Environment 1972-2022



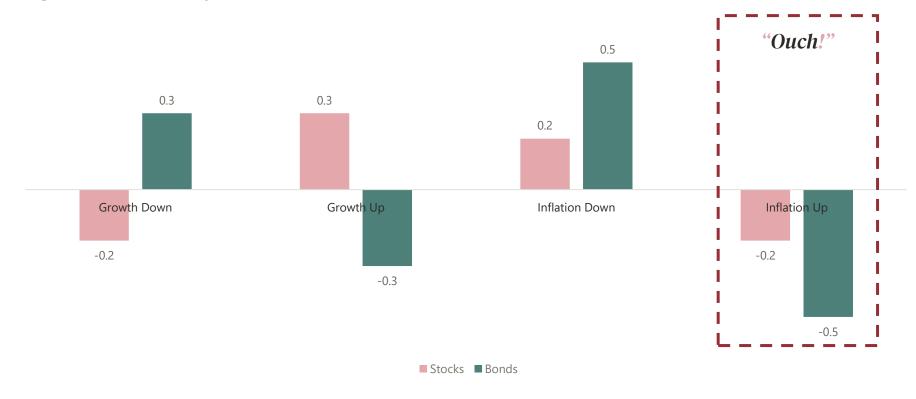


Sharpe Ratio Differentials by Macro-economic Environment 1972-2022



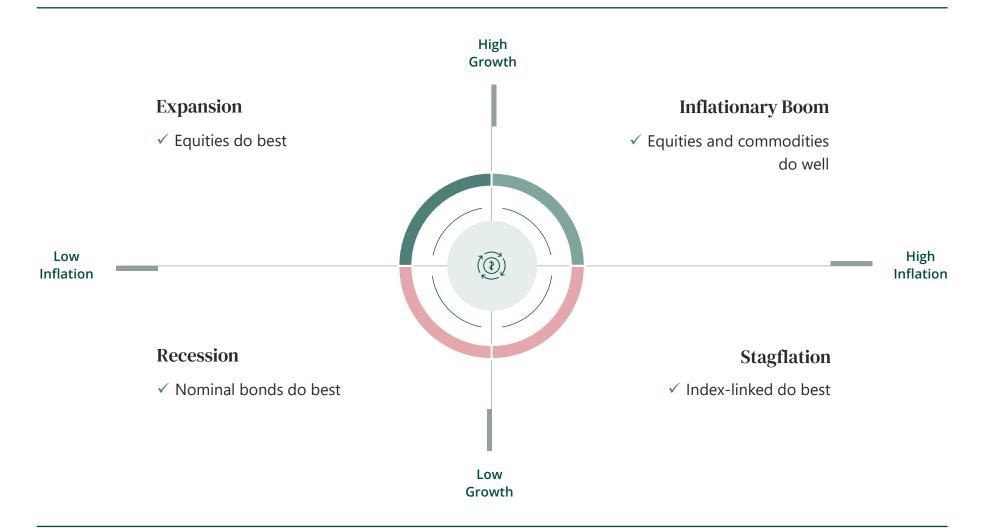


Sharpe Ratio Differentials by Macro-economic Environment 1972-2022



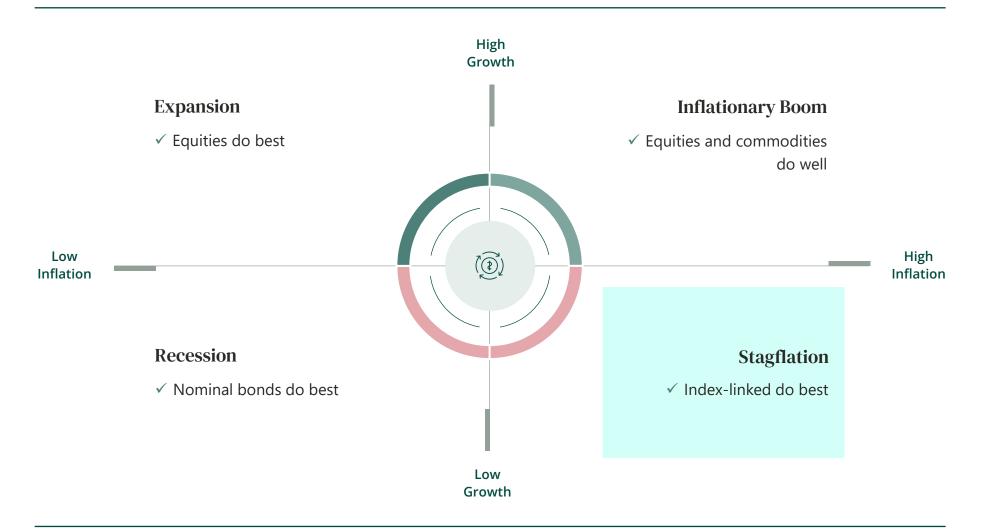


Index-linked bonds are the most reliable protector against stagflation



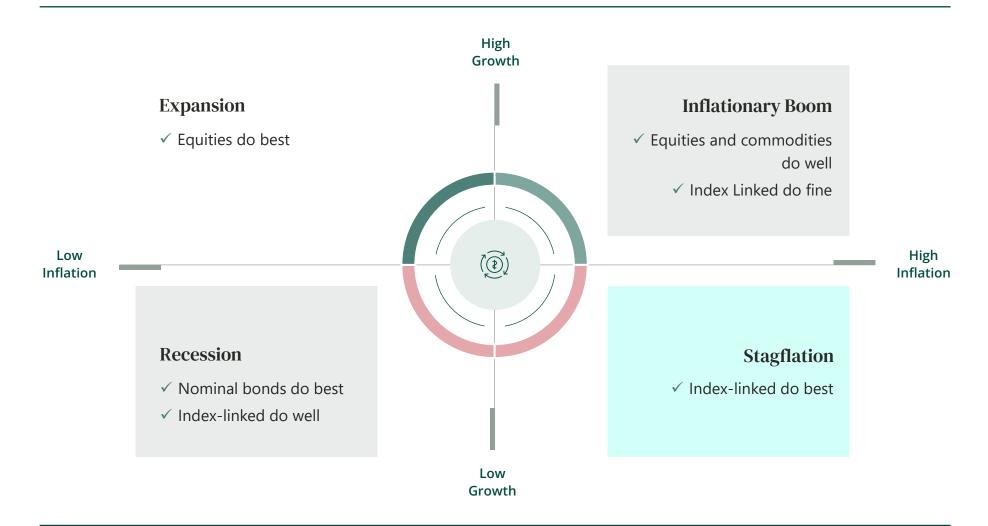


Index-linked bonds are the most reliable protector against stagflation





Index-linked bonds are the most reliable protector against stagflation





Sterling investors can still count on the negative correlation

Annual Returns % of UK Stocks and TIPS – unhedged in GBP (1998 – 2024)





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Index-linked bonds have outperformed nominal bonds since the turn of the century. We believe this outperformance will continue

Index-Linked Bond – Total Returns (US)

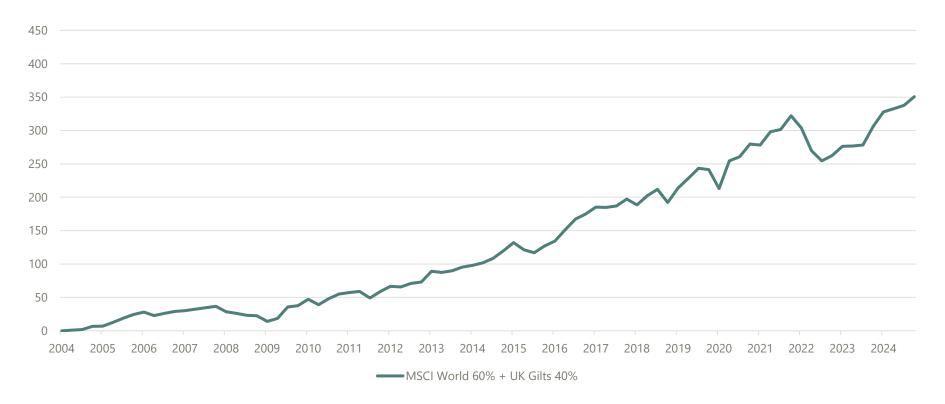


Index-Linked Bond – Total Returns (UK)

Source: Bloomberg Finance L.P.



Adding index linked to a balanced portfolios improves returns

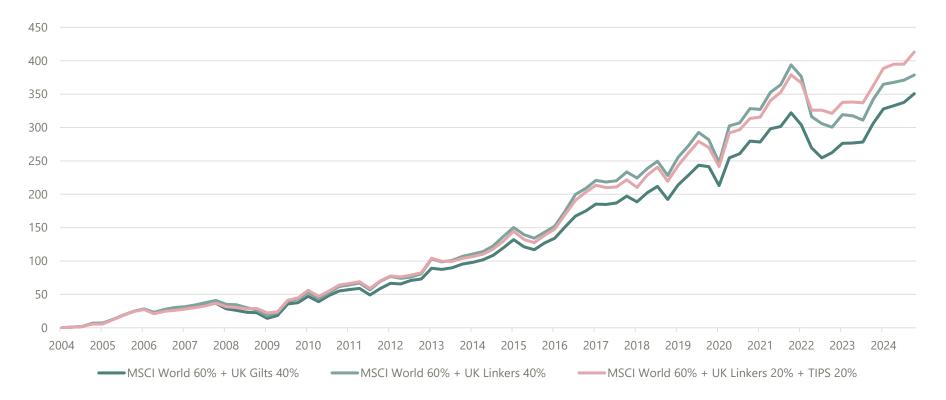


Balanced Portfolio Total Returns (GBP, % Mar 04 - today)

Source: Bloomberg LP, CGAM calculations



Adding index linked to a balanced portfolios improves returns



Balanced Portfolio Total Returns (GBP, % Mar 04 - today)

Source: Bloomberg LP, CGAM calculations



1. Equities 2. Nominal bonds 3. Index linked Bonds 4. Gold 5. Bitcoin

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Emma Moriarty

January 2025



- 1. Define the investable universe
- 2. Set the portfolio allocation
 - Weightings to different sovereign issuers
 - Worked example: curve positioning
- 3. Consider the expected returns from currency hedging
- Worked example: 10Y TIPS vs 10Y UKTI



Define the investable universe

Choosing the best flavour



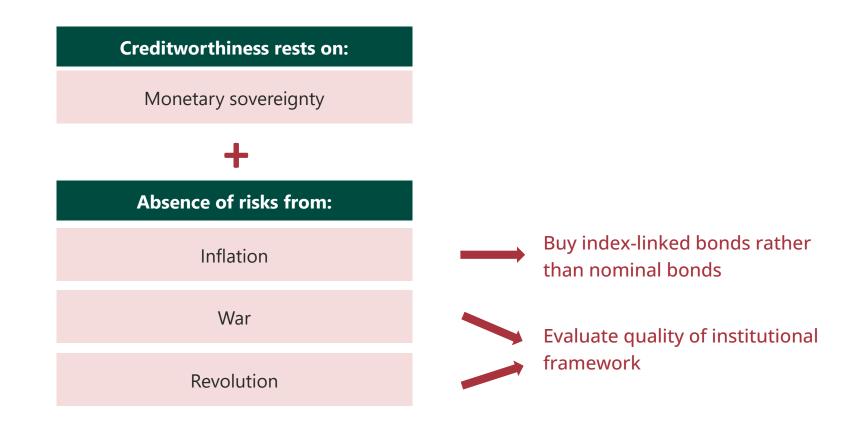
Index-linked bonds in international context

lssuer	Indexed nominal value (£bn)	Number of index-linked bonds		
United States	1,620	51		
United Kingdom	625	32		
France	245	19		
Italy	215	18		
spain	70	8		
Germany	70	4		
Japan	65	10		
Canada	40	8		
Australia	30	7		
Sweden	20	8		
New Zealand	15	4		
Denmark	5	2		

Source: Bloomberg Finance L.P, Bank for International Settlements, CGAM calculations. Note that nominal issuance amounts are rounded to nearest £5bn, and percentages of government debt are stated to the nearest percentage point.



Choosing the best flavour In defining our investable universe, creditworthiness is the first and foremost consideration



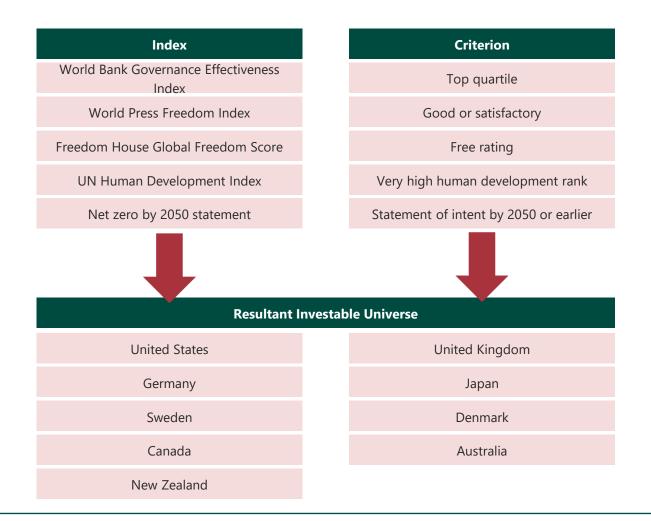


Sovereign creditworthiness is a judgment that rests on the quality of economic, social and political institutions – not just the fiscal position!

Index	Criterion		
World Bank Governance Effectiveness Index	Top quartile		
World Press Freedom Index	Good or satisfactory		
Freedom House Global Freedom Score	Free rating		
UN Human Development Index	Very high human development rank		
Net zero by 2050 statement	Statement of intent by 2050 or earlier		



Sovereign creditworthiness is a judgment that rests on the quality of economic, social and political institutions – not just the fiscal position!





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We invest in a narrower group of high-quality sovereign issuers

lssuer	Indexed nominal value (£bn)	Number of index-linked bonds
United States	1,620	51
United Kingdom	625	32
France	245	19
Italy	215	18
Spain	70	8
Germany	70	4
Japan	65	10
Canada	40	8
Australia	30	7
Sweden	20	8
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Source: Bloomberg Finance L.P, Bank for International Settlements, CGAM calculations. Note that nominal issuance amounts are rounded to nearest £5bn, and percentages of government debt are stated to the nearest percentage point.



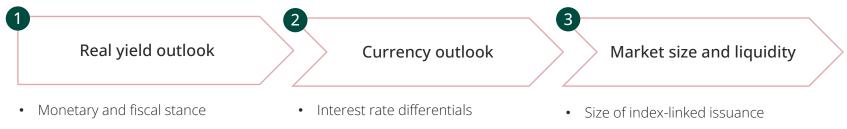
Set the portfolio allocation

Choosing the best flavour



Global index-linked allocation is decided in two stages

Stage 1: Determine the target weighting for each sovereign issuer

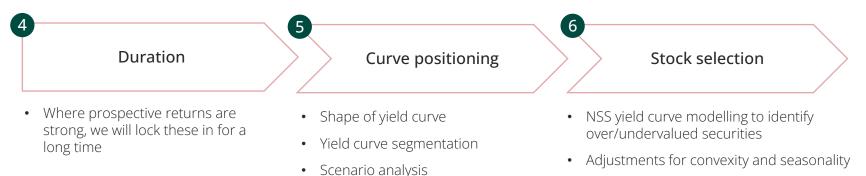


- Inflation expectations vs. breakevens
- Forward rates

- Growth and inflation outlook
- PPP metrics

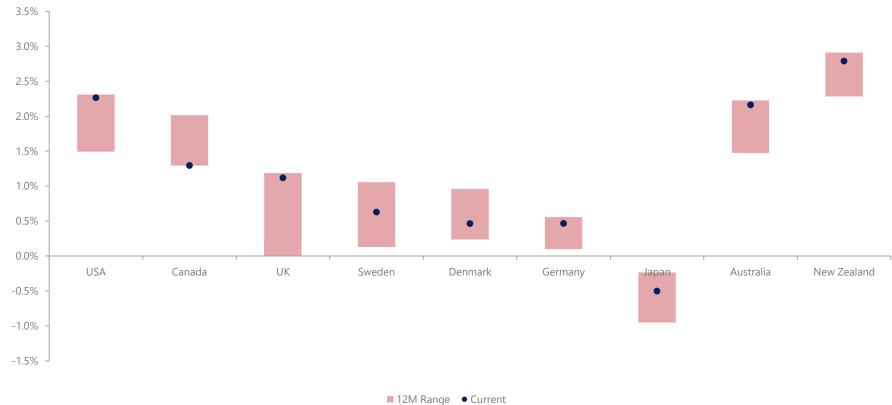
- Individual stock turnover
- Bid / offer spreads

Stage 2: For each sovereign allocation, determine appropriate positioning





Weightings to different markets are a function of yield available, currency outlook and market size. On these grounds, the US remains the most attractive



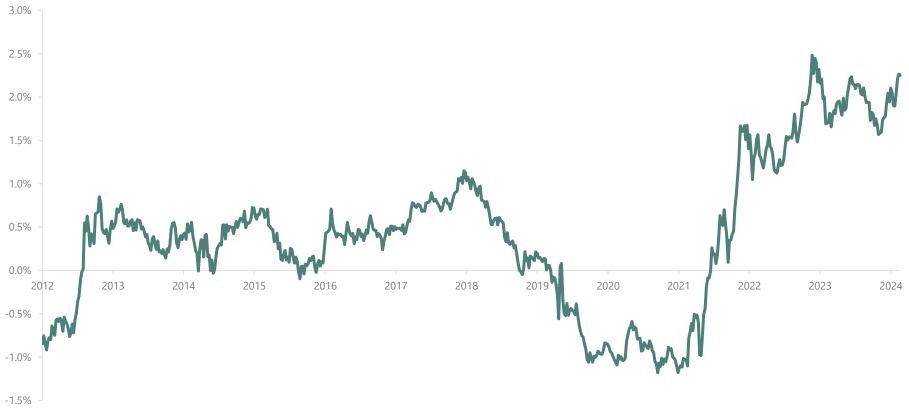
Developed Government Bond 10 Year Real Yields

Source: Bloomberg Finance L.P.



US real yields are elevated relative to recent history and against most estimates of r*. This leads us to favour long duration

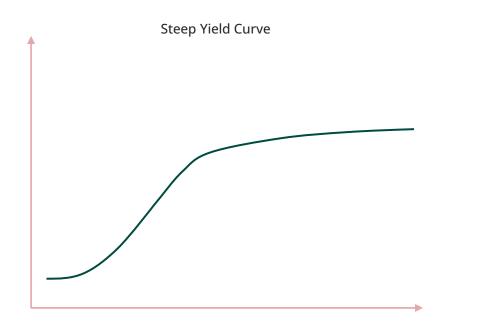
10Y US TIPS Yield history

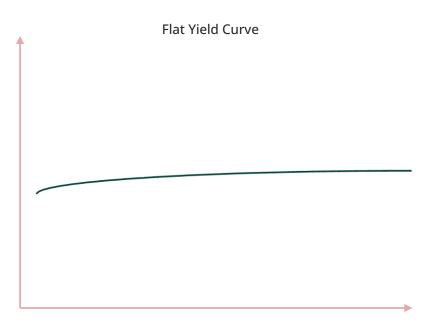


Source: Bloomberg Finance L.P.



The shape of the yield curve, combined with our expectations, drives our curve positioning. The recent flatness of the yield curve led us to prefer a barbell strategy



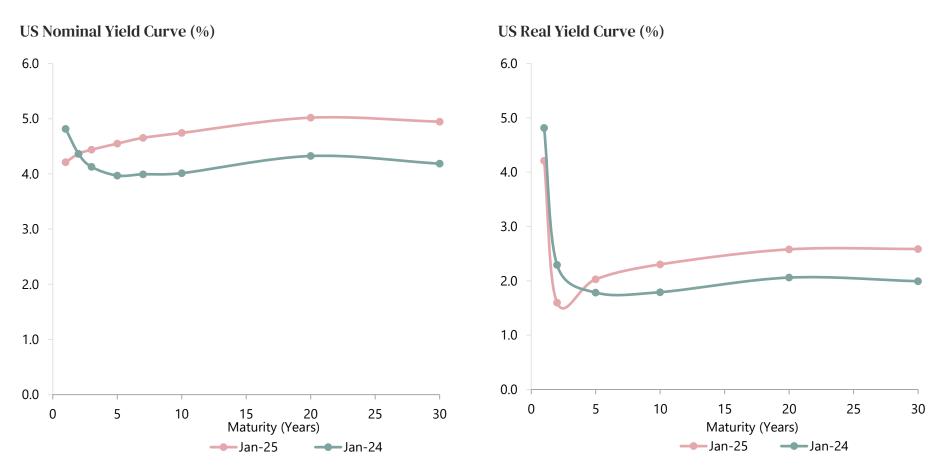


- Roll down is a significant contributor to total return;
- Prefer 'belly' of the curve, where gradient is steepest.

- No roll down, so favour convexity at long end;
- Prefer a barbell strategy, favouring front and long end of curve.



The US nominal and real curves have moved over the course of the year and are beginning to show some term premium...

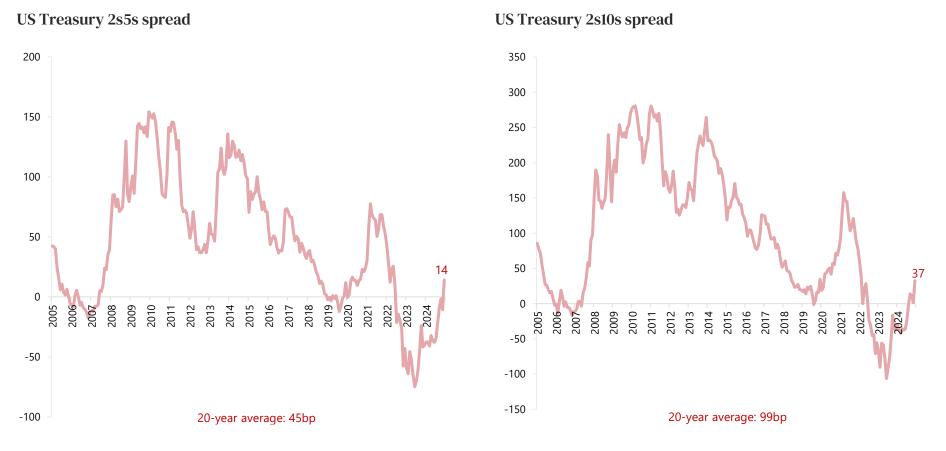


Source: Tax Foundation. Estimates forecast over 10-year horizon of 2025-2034. Fiscal balances from Bloomberg Finance LP and forecasts from the US Congressional Budget Office.



Choosing the right flavour

...however, a lookback against recent history suggests that the US curve is still relatively flat



Source: Bloomberg Finance LP



Positioning is much simpler for the smaller issuers!

lssuer	Index Duration	CG Duration	Running Yield	Comments	
United States	6.6	7.7	2.1%	Liquid market, high real yields, long duration, barbell	
United Kingdom	14.6	5.2	0.8% (RPI)	Volatile market, rising real yields, short duration	
Germany	7.5	1.3	0.9%	Inverted yield curve	
Sweden	3.7	3.2	0.9%	Inverted yield curve, small market	
Denmark	7.5	5.8	0.5%	Small market, few bonds, flat yield curve	
Japan	4.4	1.1	-1.8%	Illiquid market, rising interest rate environment	
Canada	12.6	1.1	1.1%	Highly illiquid market	
Australia	8.3	5.5	2.1%	Small market but relatively liquid, high real yields	
New Zealand	7.5	3.0	2.4%	Small market, high real yields	

Source: Tax Foundation. Estimates forecast over 10-year horizon of 2025-2034. Fiscal balances from Bloomberg Finance LP and forecasts from the US Congressional Budget Office.



Considering currency hedging

Choosing the best flavour



A case study in hedging: UKTI vs. GBP-hedged TIPS

- 1. Compare headline <u>real yields for the same maturity</u>
- 2. Make any adjustments needed for different measures of inflation
 - US I/L uses US CPI
 - UKTI uses RPI (out to 2030); CPIH beyond that
- 3. Calculate the costs of (or profit from!) hedging
 - Forward rate vs. spot rate for same currency pair
 - Time horizon of hedge (e.g. 3M, 1Y)



TIPS vs. Linkers: a perennial question for the GBP-denominated investor



Waterfall: Value differential between 10Y TIPS and 10Y UKTI

Source: Bloomberg Finance L.P., CGAM calculations.



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