

Town of Wilton

Fourth Quarter 2022 OPEB Discussion Guide

February 8, 2023

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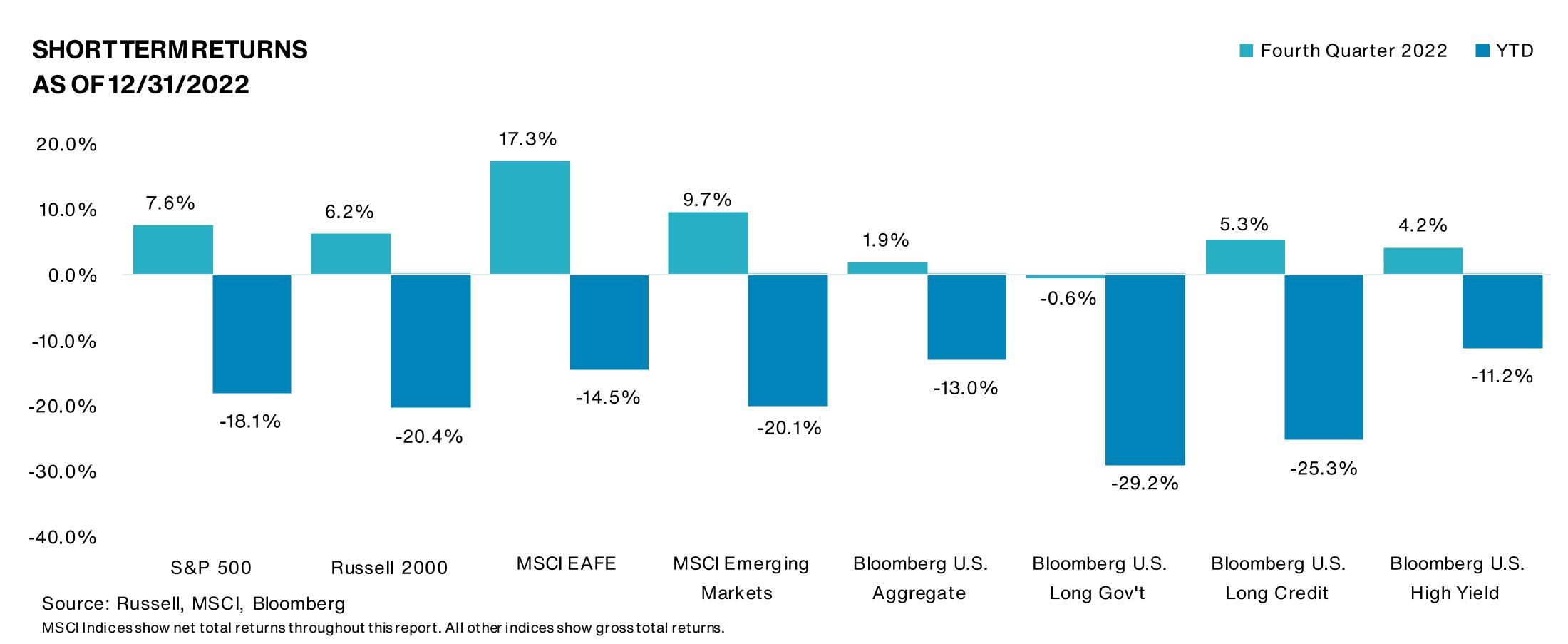
OPEB Performance Summary

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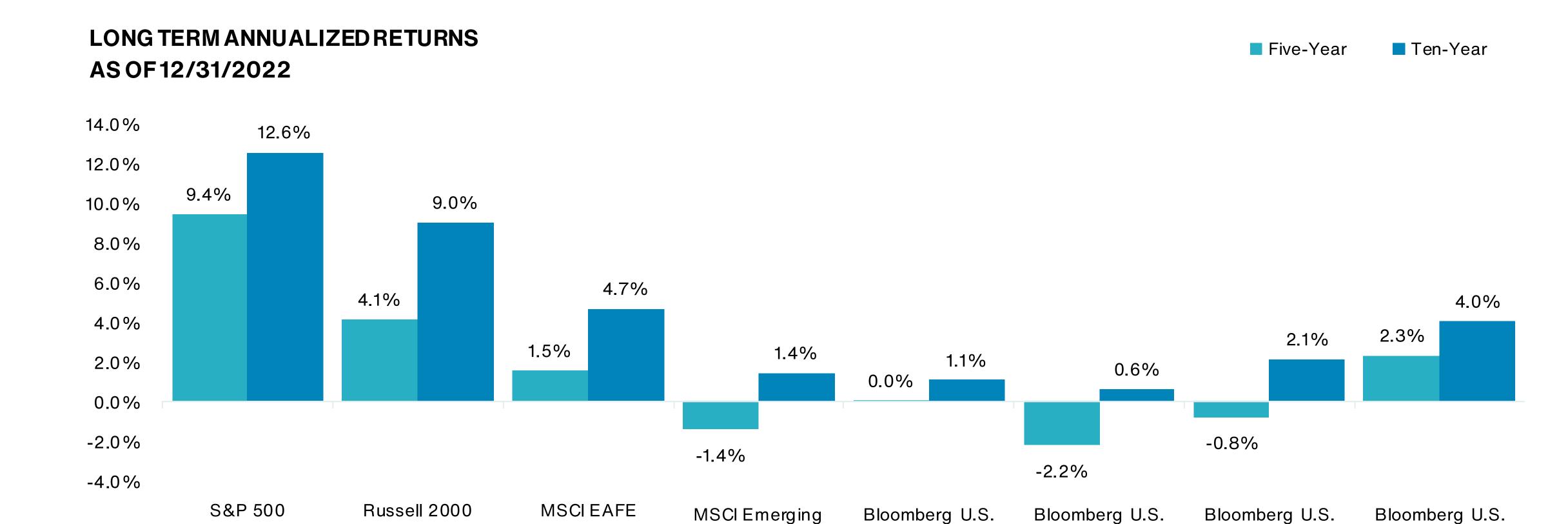






Past performance is no guarantee of future results. Indices cannot be invested in directly. Unmanaged index returns assume reinvestment of any and all distributions and do not reflect fees and expenses. Please see appendix for index definitions and other general disclosures.





Source: Russell, MSCI, Bloomberg

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Aggregate

Markets



Long Credit

Long Gov't

High Yield

	Returns	of the Major	Capital Markets				Returns of the Major Capital Markets							
			Period Ending 12/31/2022			nding 12/31/2022					ı	Period Ending 12	2/31/2022	
	Fourth Quarter	YTD	1-Year	3-Year ¹	5-Year¹	10-Year ¹		Fourth Quarter	YTD	1-Year	3-Year ¹	5-Year ¹	10-Year ¹	
Equity							Fixed Income	. our in Quartor						
MSCI All Country World IMI	9.84%	-18.40%	-18.40%	3.89%	4.96%	7.94%		4.55%	-16.25%	-16.25%	-4.48%	-1.66%	-0.44%	
MSCI All Country World	9.76%	-18.36%	-18.36%	4.00%	5.23%	7.98%	Bloomberg Global Aggregate	1.87%	-13.01%	-13.01%	-2.71%	0.02%	1.06%	
Dow Jones U.S. Total Stock Market	7.18%	-19.53%	-19.53%	6.89%	8.65%	12.03%	Bloomberg U.S. Aggregate	-0.59%	-29.19%	-29.19%	-7.39%	-2.19%	0.61%	
Russell 3000	7.18%	-19.21%	-19.21%	7.07%	8.79%	12.13%	Bloomberg U.S. Long Gov't							
S&P 500	7.56%	-18.11%	-18.11%	7.66%	9.42%	12.56%	Bloomberg U.S. Long Credit	5.30%	-25.29%	-25.29%	-5.78%	-0.77%	2.13%	
Russell 2000	6.23%	-20.44%	-20.44%	3.10%	4.13%	9.01%	Bloomberg U.S. Long Gov't/Credit	2.61%	-27.09%	-27.09%	-6.20%	-1.21%	1.57%	
MSCI All Country World ex-U.S. IMI	14.15%	-16.58%	-16.58%	0.20%	0.85%	3.98%	Bloomberg U.S. TIPS	2.04%	-11.85%	-11.85%	1.21%	2.11%	1.12%	
MSCI All Country World ex-U.S.	14.28%	-16.00%	-16.00%	0.07%	0.88%	3.80%	Bloomberg U.S. High Yield	4.17%	-11.19%	-11.19%	0.05%	2.31%	4.03%	
MSCI EAFE	17.34%	-14.45%	-14.45%	0.87%	1.54%	4.67%	Bloomberg Global Treasury ex U.S.	6.85%	-19.55%	-19.55%	-6.81%	-3.37%	-1.90%	
MSCI EAFE (Local Currency)	8.72%	-7.00%	-7.00%	3.64%	3.81%	7.56%	JP Morgan EMBI Global (Emerging Markets) Commodities	7.44%	-16.45%	-16.45%	-4.49%	-1.00%	1.35%	
MSCI Emerging Markets	9.70%	-20.09%	-20.09%	-2.69%	-1.40%	1.44%	Commodities							
Equity Factors							Bloomberg Commodity Index	2.22%	16.09%	16.09%	12.65%	6.44%	-1.28%	
MSCI World Minimum Volatility (USD)	10.09%	-9.28%	-9.28%	2.46%	5.62%	9.05%	Goldman Sachs Commodity Index	3.44%	25.99%	25.99%	10.49%	6.46%	-3.30%	
MSCI World High Dividend Yield	14.60%	-3.93%	-3.93%	4.25%	5.62%	7.91%	Hedge Funds							
MSCI World Quality	10.26%	-21.90%	-21.90%	6.52%	9.42%	11.73%	HFRI Fund-Weighted Composite ²	2.26%	-4.20%	-4.20%	5.68%	4.42%	4.68%	
MSCI World Momentum	13.14%	-17.34%	-17.34%	6.94%	8.89%	11.98%	HFRI Fund of Funds ²	1.79%	-5.25%	-5.25%	3.71%	3.02%	3.51%	
MSCI World Enhanced Value	16.36%	-9.21%	-9.21%	1.95%	1.92%	7.10%	Real Estate							
MSCI World Equal Weighted	12.95%	-16.38%	-16.38%	2.05%	3.14%	7.43%	NAREIT U.S. Equity REITS	5.24%	-24.37%	-24.37%	-0.11%	3.68%	6.53%	
MSCI World Index Growth	4.77%	-29.05%	-29.05%	4.94%	7.73%	10.44%	NCREIF NFI - ODCE	-4.96%	7.47%	7.47%	9.93%	8.68%	10.10%	
MSCI USA Minimum Volatility (USD)	9.80%	-9.19%	-9.19%	5.14%	8.59%	11.88%	FTSF Global Core Infrastructure Index	8.66%	-5.79%	-5.79%	3.32%	6.65%	8.54%	
MSCI USA High Dividend Yield	14.19%	-3.75%	-3.75%	6.07%	7.38%	11.46%	Private Equity							
MSCI USA Quality	9.28%	-22.67%	-22.67%	6.65%	10.44%	13.57%	Burgiss Private iQ Global Private Equity ³			6.18%	21.00%	18.52%	15.82%	
MSCI USA Momentum	12.16%	-17.39%	-17.39%	6.52%	8.78%	14.07%	MSCI Indices show net total returns thro	ughout this repo	rt. All other inc	dices show gros	ss total returns	S.		
MSCI USA Enhanced Value	12.40%	-13.99%	-13.99%	3.50%	4.71%	10.90%	¹ Periods are annualized.			C				
MSCI USA Equal Weighted	9.71%	-16.99%	-16.99%	6.35%	7.54%	11.41%	² Latest 5 months of HFR data are estim	ated by HFR and	may change	in the future.				
MSCI USA Growth	0.59%	-31.97%	-31.97%	7.10%	10.63%	13.69%	³ Burgiss Private iQ Global Private Equity	•	, ,					

Burgiss Private IQ Global Private Equity data is as at June 30, 2022

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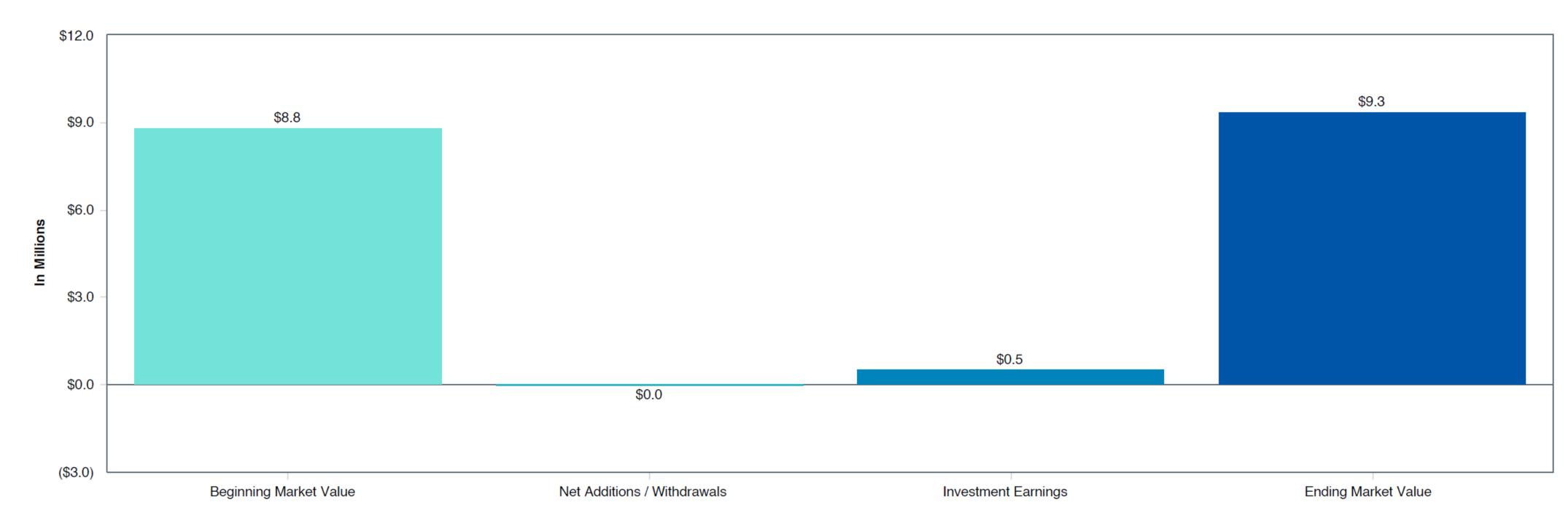
OPEB Performance Summary





Total Plan Asset Summary

As of December 31, 2022



Summary of Cash Flows				
	1 Quarter	1 Year	Since Inception	Inception Date
Beginning Market Value	8,827,766	11,090,251	2,652,035	
+ Additions / Withdrawals	-13,870	76,298	3,032,408	
+ Investment Earnings	527,849	-1,824,805	3,657,301	
= Ending Market Value	9,341,744	9,341,744	9,341,744	



Total Plan Performance Summary

As of December 31, 2022

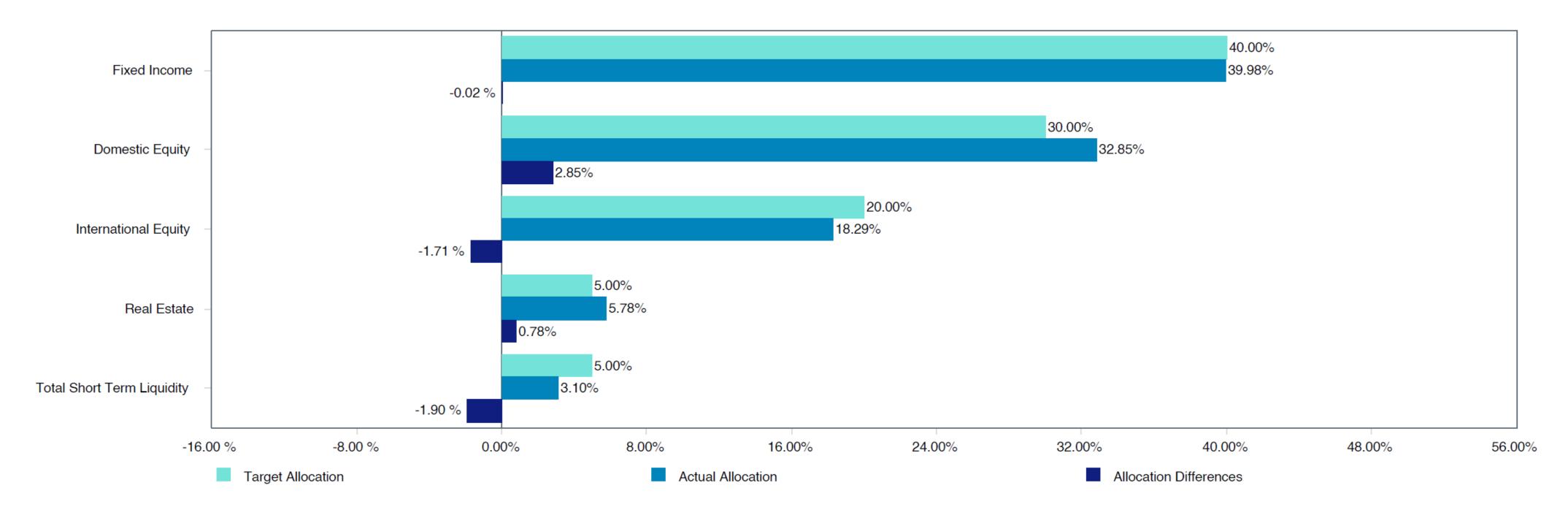




Asset Allocation

As of December 31, 2022

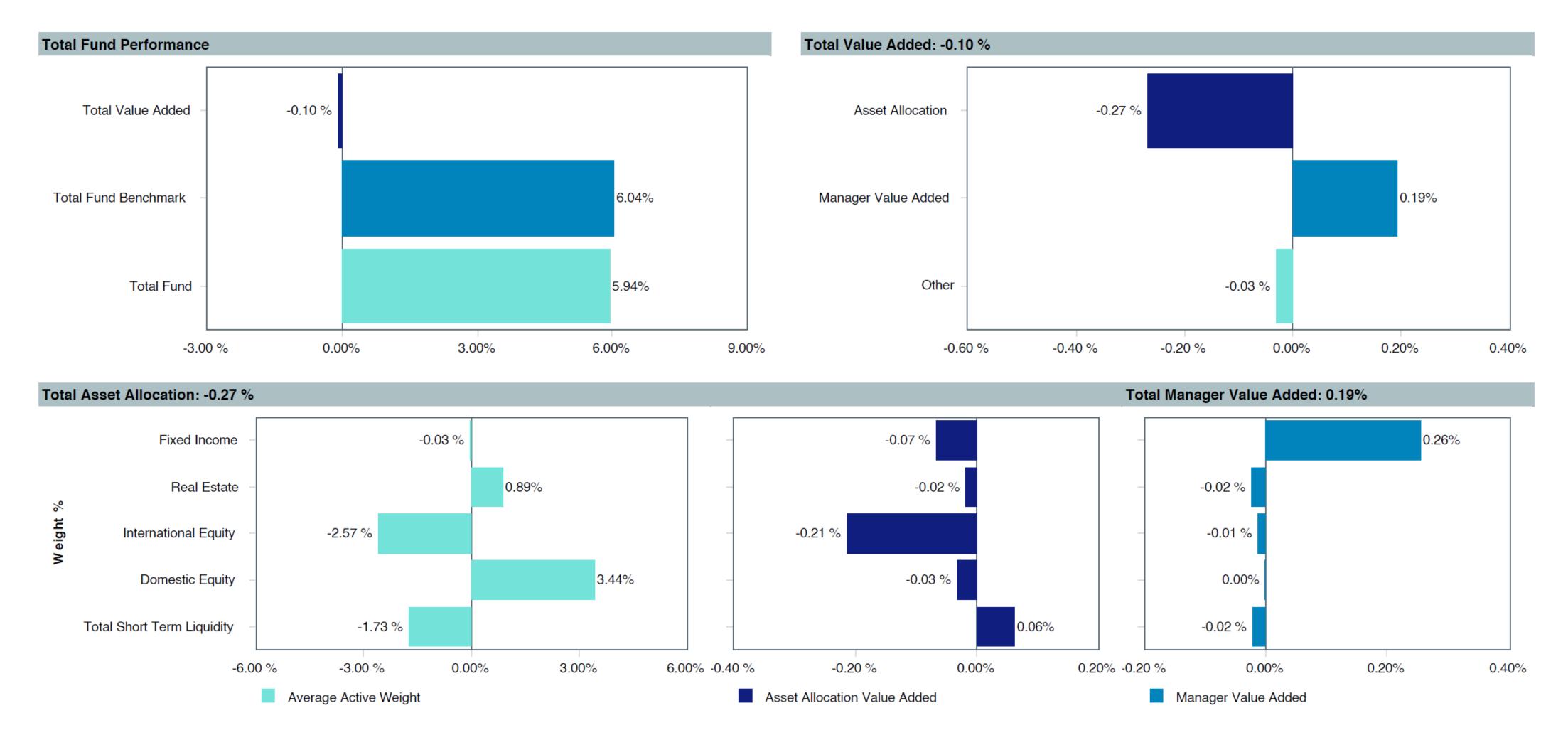
	Market Value \$	Current Allocation %	Target Allocation %	Differences %
OPEB Plan	9,341,744.15	100.00	100.00	0.00
Fixed Income	3,734,585.75	39.98	40.00	-0.02
Domestic Equity	3,068,985.92	32.85	30.00	2.85
International Equity	1,708,322.05	18.29	20.00	-1.71
Real Estate	540,048.39	5.78	5.00	0.78
Total Short Term Liquidity	289,802.04	3.10	5.00	-1.90





OPEB Total Fund Attribution

1 Quarter as of December 31, 2022





Performance

As of December 31, 2022

		Allocation		Performance %						
	Market Value \$	%	Policy %	1 Quarter	1 Year	3 Years	5 Years	7 Years	Since Inception	Inception Date
OPEB Plan	9,341,744	100.0	100.0	5.9	-16.4	2.0	3.7	5.6	5.8	05/01/2012
Wilton OPEB Plan Benchmark				6.0	-15.2	1.6	3.5	5.2	5.4	
Fixed Income	3,734,586	40.0	40.0	2.5	-11.7	-2.1	0.3	1.6	2.4	07/01/2010
OPEB Fixed Income Composite Benchmark				1.9	-13.0	-2.7	0.0	0.9	1.8	
Vanguard Total Bond Market Index Adm	926,743	9.9		1.7 (65)	-13.2 (37)	-2.7 (62)	0.0 (59)	0.9 (70)	-1.3 (63)	06/01/2019
Blmbg. U.S. Aggregate				1.9 (40)	-13.0 (30)	-2.7 (59)	0.0 (57)	0.9 (70)	-1.3 (60)	
IM U.S. Broad Market Core Fixed Income (MF) Median				1.8	-13.4	-2.5	0.1	1.1	-1.1	
Metropolitan West Total Return Bond Pl	730,072	7.8		1.8 (57)	-14.7 (81)	-2.7 (77)	0.2 (71)	1.0 (88)	-1.2 (80)	06/01/2019
Blmbg. U.S. Aggregate				1.9 (53)	-13.0 (41)	-2.7 (77)	0.0 (81)	0.9 (94)	-1.3 (83)	
IM U.S. Broad Market Core+ Fixed Income (MF) Median				1.9	-13.4	-2.1	0.4	1.5	-0.7	
PGIM Total Return Bond R6	561,210	6.0		2.3 (32)	-14.9 (85)	-3.1 (95)	0.1 (75)	1.7 (36)	1.6 (35)	12/01/2015
Blmbg. U.S. Aggregate				1.9 (53)	-13.0 (41)	-2.7 (77)	0.0 (81)	0.9 (94)	0.8 (93)	
IM U.S. Broad Market Core+ Fixed Income (MF) Median				1.9	-13.4	-2.1	0.4	1.5	1.4	
PIMCO Income Fund	1,516,562	16.2		3.4 (24)	-7.8 (23)	0.0 (21)	1.7 (17)	3.6 (10)	-3.0 (25)	02/01/2021
Blmbg. U.S. Aggregate				1.9 (58)	-13.0 (72)	-2.7 (75)	0.0 (77)	0.9 (90)	-7.4 (80)	
IM Multi-Sector General Bond (MF) Median				2.2	-11.3	-1.3	0.7	2.3	-5.0	

*Consists of Dow Jones U.S. Total Stock Market Index (formerly known as the Dow Jones Wilshire 5000 Index) through April 22, 2005; MSCI US Broad Market Index through June 2, 2013; and CRSP US Total Market Index through June 2, 2013; ACWI ex. U.S. IMI Index through June 2, 2013; FTSE Global All Cap ex U.S. Index thereafter *** Consists of MSCI US REIT Index adjusted to include a 2% cash position (Lipper Money Market Average) through April 30, 2009; MSCI US REIT Index through January 31, 2018; MSCI US Investable Market Real Estate 25/50 Transition Index thereafter.



Performance

As of December 31, 2022

		Allocation		Performance %							
	Market Value \$	%	Policy %	1 Quarter	1 Year	3 Years	5 Years	7 Years	Since Inception	Inception Date	
Domestic Equity	3,068,986	32.9	30.0	7.1	-19.5	7.0	8.7	11.0	13.0	07/01/2010	
OPEB Domestic Equity Benchmark				7.1	-19.5	7.0	8.7	11.0	13.0		
Vanguard Total Stock Market Index Adm	3,068,986	32.9		7.1 (70)	-19.5 (68)	7.0 (45)	8.7 (30)	11.0 (22)	12.5 (16)	01/01/2012	
Vanguard Spliced Total Stock Market Index *				7.1 (70)	-19.5 (67)	7.0 (44)	8.7 (29)	11.0 (21)	12.5 (16)		
IM U.S. Multi-Cap Core Equity (MF) Median				8.4	-17.7	6.8	7.9	10.0	11.5		
International Equity	1,708,322	18.3	20.0	14.3	-19.3	0.4	1.4	5.2	6.2	07/01/2010	
OPEB International Equity Composite Benchmark				14.2	-16.1	0.3	1.0	4.9	5.2		
Vanguard Total International Stock Index Adm	909,190	9.7		14.7 (77)	-16.0 (62)	0.5 (63)	1.1 (69)	5.0 (27)	4.5 (64)	05/01/2012	
Vanguard Spliced Total International Stock Index **				14.1 (82)	-16.1 (64)	0.5 (63)	1.1 (69)	5.0 (27)	4.5 (63)		
IM International Large Cap Core Equity (MF) Median				16.6	-14.8	0.9	1.5	4.8	4.9		
American Funds EuroPacific Growth R6	799,132	8.6		13.8 (83)	-22.7 (99)	-0.2 (79)	1.5 (48)	5.2 (14)	3.8 (1)	09/01/2014	
MSCI AC World ex USA Index (Net)				14.3 (81)	-16.0 (62)	0.1 (69)	0.9 (71)	4.8 (45)	2.2 (65)		
IM International Large Cap Core Equity (MF) Median				16.6	-14.8	0.9	1.5	4.8	2.5		
Real Estate	540,048	5.8	5.0	3.7	-24.7	0.1	4.0	4.8	8.7	07/01/2010	
OPEB Real Estate Benchmark				4.1	-24.9	0.2	4.4	5.6	9.5		
Cohen & Steers Institutional Realty Shares	540,048	5.8		3.7 (62)	-24.7 (26)	1.5 (17)	5.9 (4)	6.1 (4)	4.1 (17)	02/01/2021	
FTSE NAREIT All Equity REITs				4.1 (48)	-24.9 (32)	0.2 (46)	4.4 (28)	5.6 (16)	3.1 (42)		
IM Real Estate Sector (MF) Median				4.0	-26.1	0.0	3.8	4.5	2.7		

*Consists of Dow Jones U.S. Total Stock Market Index (formerly known as the Dow Jones Wilshire 5000 Index) through April 22, 2005; MSCI US Broad Market Index through August 31, 2006; MSCI EAFE + Emerging Markets Index through December 15, 2010; MSCI ACWI ex. U.S. IMI Index through June 2, 2013; FTSE Global All Cap ex U.S. Index thereafter *** Consists of MSCI US REIT Index adjusted to include a 2% cash position (Lipper Money Market Average) through April 30, 2009; MSCI US REIT Index through January 31, 2018; MSCI US Investable Market Real Estate 25/50 Transition Index thereafter.



Performance

As of December 31, 2022

	Į.	Allocation		Performance %							
	Market Value \$	%	Policy %	1 Quarter	1 Year	3 Years	5 Years	7 Years	Since Inception	Inception Date	
Total Short Term Liquidity	289,802	3.1	5.0	0.2	0.4	0.4	8.0	0.7	0.4	01/01/2012	
Allspring Government MM Fund	13,507	0.1		0.6	1.2	0.7	1.2	1.0	0.7	04/01/2012	
90 Day U.S. Treasury Bill				0.8	1.5	0.7	1.3	1.1	0.7		
Webster Cash	276,295	3.0									

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Aon Medium Terms





Key Issues In 2023

Inflation

Will it fall sufficiently for central banks to stop tightening soon?

Recession

Are we already in a global recession? Can the world avoid one?

> Interest rates

Will any 'turn' in interest rates come in 2023 or do rates stay at high levels in 2023?



Core Views

Central banks will win over markets keeping rates high

Even though there are signs that inflation is starting to peak and economic growth is slowing, the major central banks remain keenly focused on tightening monetary policy until inflation comes down closer to targets. The Fed chairman made clear recently that no one on the US FOMC saw rate cuts in 2023 but markets ignored this.

Bond yields are likely to trade in a range

Markets are looking for early relief on policy interest rates and bond yields. This is unlikely to come for much of 2023, leaving bond yields range bound. Even though some parts of the global economy are already entering recession, only a clear-cut US recession will deliver the interest rate 'turn' lower that markets are looking for. This becomes more likely in the 2nd half of 2023.

Risky assets face squeeze from both higher rates and recessionary trends

The problem for risky assets is that lower rates may only come once recession is confirmed, which will be bad for corporate profitability. This does suggest that pressure is unlikely to come-off any time soon. Bonds are therefore much more likely to have relief from a confirmed recessionary trend in the US in 2023. Of course, if the US economy escapes recession, this may keep interest rates higher for longer, which is not that constructive for risky assets.

A soft-landing outcome for the global economy is possible, but not especially likely

The key problem is that the possibility of a true soft landing (gentle growth slowdown, rapidly falling inflation towards targets and easing interest rate pressures), that markets need to have a good year, remains small.



Actions

Some value in credit but position-building should be gradual

- Higher total yields have brought back value in some areas of credit, although spread valuations have moved somewhat towards unattractive levels in recent months.
- Investors needing to build credit positions will find higher yields enticing, but the possible return of upward pressure on credit spreads and/or still higher government bond yields make immediate pay-offs uncertain.

Not yet time to raise equity allocations

- The coast is not clear on equities even after the large falls in 2022 and valuations do not look that attractive once earnings declines going into 2023 are allowed for.
- Allocations do not have to be substantially underweight targets, but some under-positioning should remain.

View shifts



Moved more positive on EAFE and EM equity markets and removed our preference for US equities. At the same time we have upgraded value to be in line with the growth factor



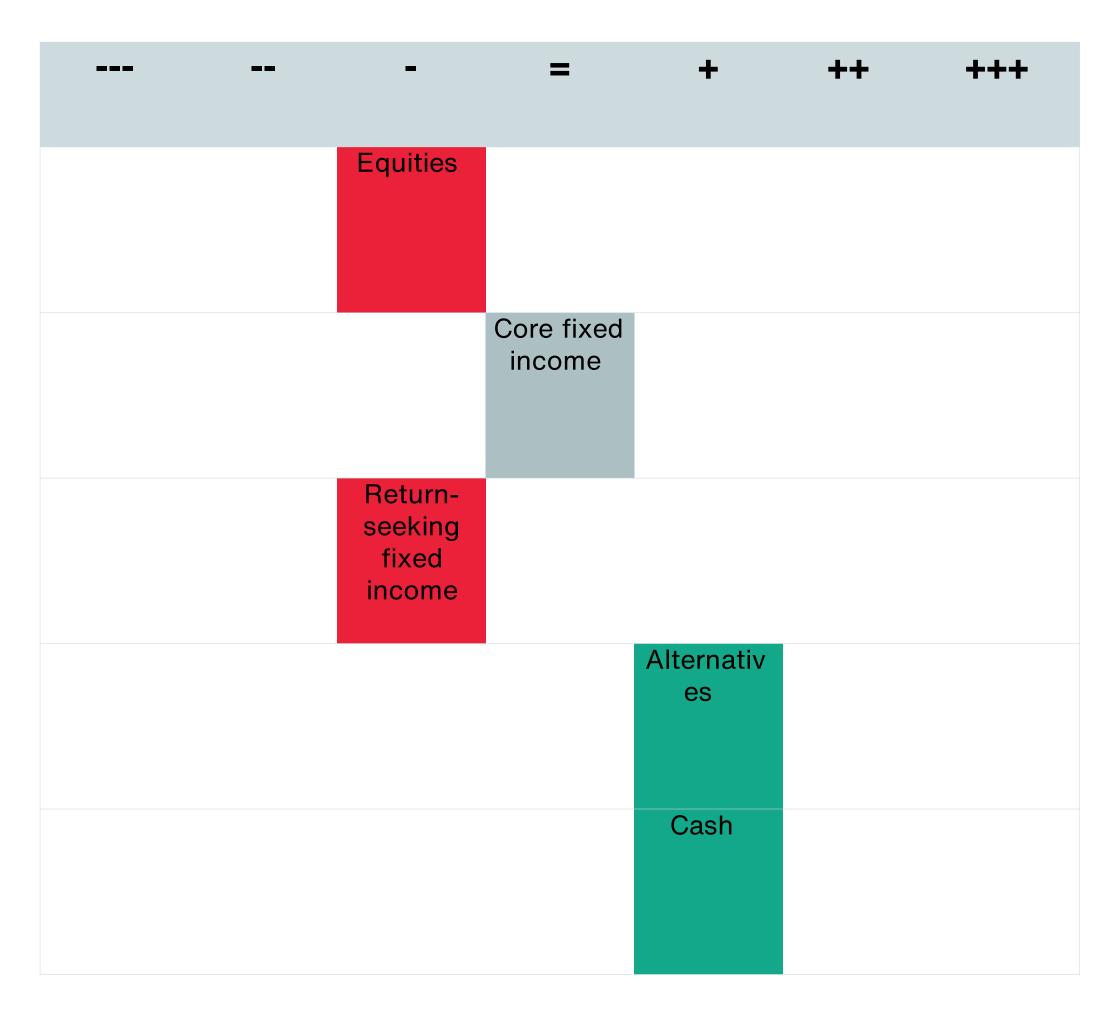
Upgraded emerging market debt and particularly locallydenominated debt



Turned negative on the US dollar against all major currencies



Cross Asset Views



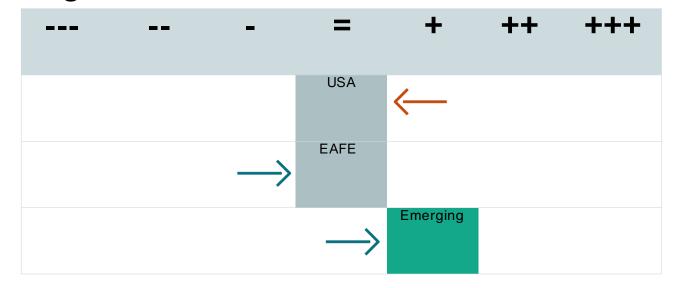
- The risk of a deep global recession has receded, but we think equity
 markets have still not priced in the extent of weaker corporate earnings as
 the global economy slows. Our view that policy rates could stay higher for
 longer than the market is generally expecting also presents a challenge to
 equities.
- We are remaining underweight return-seeking fixed income as we think credit spreads will widen again after having fallen significantly in H2 2022. We prefer less risky credit and government bonds.
- We are maintaining a neutral duration view as the upside and downside risks to government bond yields are more balanced now. Global inflation has started to fall but we expect U.S. treasury yields could remain rangebound.
- Cash rates have reached attractive levels relative to the uncertain outlook
 of traditional asset classes which means a small cash allocation makes
 sense. Many alternative diversifiers performed well over 2022 and we think
 they will continue to provide resilience to portfolios. Insurance-linked
 securities performed less well in 2022 but now offer notably attractive
 premiums and attractive risk-adjusted returns and therefore deserve a
 mention.



Relative Asset Class Views*

*Asset class views are relative to others within the asset class and not relative to other asset types. There should be no read-across from equities to credit, for example.

Regional views



Core Fixed Income



Alternatives



Factor views



Return-Seeking Fixed Income



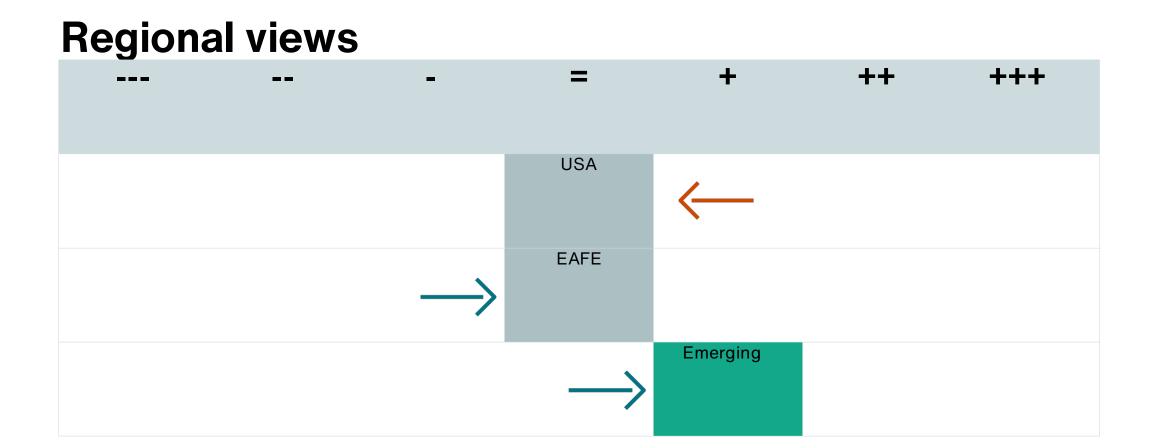
Currency views vs USD





Relative Equity Views*

*Asset class views are relative to others within the asset class and not relative to other asset types. There should be no read-across from equities to credit, for example.







We remain cautious on equities overall but the resilience of the US economy has meant that the chances of rate cuts this year are more limited, creating a headwind for US equities whilst high US profit margins look vulnerable. European equities have become much better value and the risk of an energy crisis in the region has reduced, hence our upgrade to the EAFE view. Meanwhile, the end of US dollar strength and the reopening of China are setting the stage for a better year for EM equities, hence our view upgrade.

We continue to prefer low volatility equities as we expect markets to struggle with higher interest rates. However, we have neutralised our value versus growth view due to our softer stance on the global economic slowdown.



Equities

Not yet time to turn positive on equities

A terrible year for equity markets has resulted in much improved valuations. The biggest moves down have occurred in earnings-based measures but most valuation metrics have become less prohibitive, such as price-to-sales or price-to-cashflow measures.

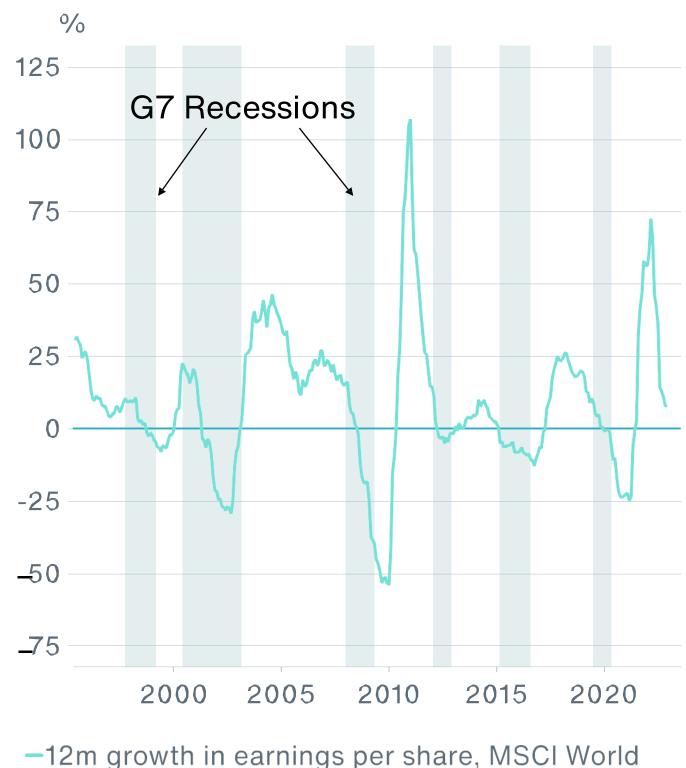
Delving deeper, only the energy, materials and financials sectors have moved to a significant discount compared with their 15-year medians, based on 12m forward price-to-earnings ratios. We conclude that valuations are no longer expensive rather than outright "cheap".

We think corporate earnings growth estimates are still too optimistic if there is a global recession next year. Earnings tend to fall substantially in recessionary periods and positive growth is still expected by markets for the next two years.

Our global recession view hinges on the US moving into a negative growth period too, but it has so far been resilient. Our view is that a US recession will occur but may be shallow and short-lived. Should a US recession be avoided, this could provide a good foundation for consistently better returns, but this is not our core view currently.

We remain cautious on global equities but acknowledge better valuations and see merit in rebalancing towards targets, especially if we see another down leg in markets.

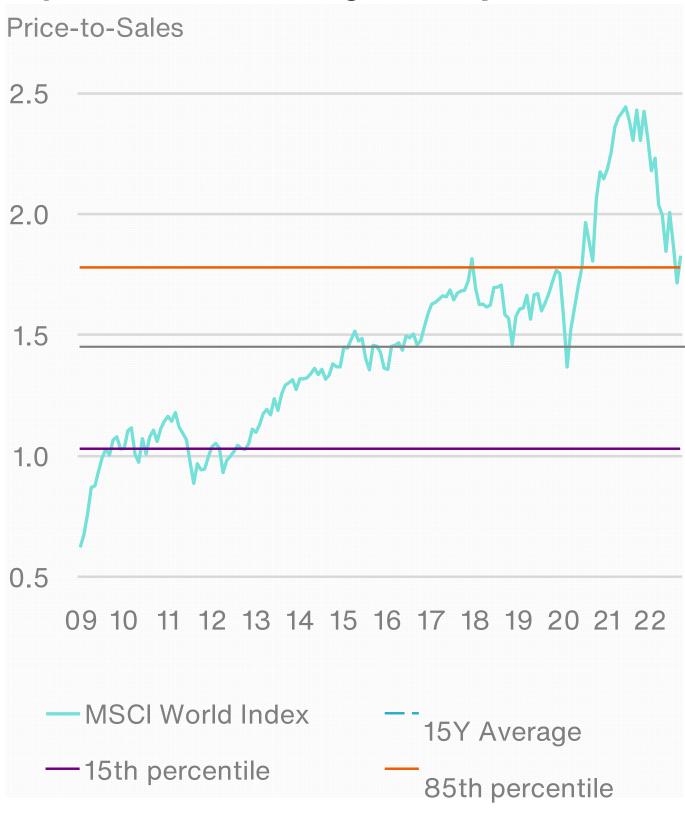
Earnings growth usually contracts in a recession



-12m growth in earnings per share, wisch work

Source: Macrobond

Non-earnings based valuations have also improved, but not as significantly



Source: FactSet



Equities

Upgrading our EAFE and EM views vs US. Moving value back in line with growth

The dataflow from the US has remained resilient and inflation has been decelerating in recent months as well. The impact of past monetary policy tightening is likely to result in a recession, but it is possible that this is delayed to later in the year and is mild. This would keep yields relatively high and would persuade the Federal Reserve to maintain tight monetary policy.

In terms of styles, higher interest rates are a headwind for growth, while better economic activity (relative to expectations) could provide some support to value stocks. We have seen this change of tone reflected in the performance comeback of value stocks relative to growth stocks since last summer. Looking ahead, we think that factor drivers are more balanced now, hence our move to neutral between the two styles. We still expect market volatility, however, and continue to prefer low volatility stocks this year.

In our regional views, we have decided to neutralise our US and EAFE views in recognition of better valuations for the latter, especially in Europe, and the continued threat to the growth-heavy US market. Meanwhile, peaking yields and a faltering US dollar, coupled with the re-opening of China, may be setting the stage for better Emerging Market performance.

Regional valuation gaps are less pronounced on a sector-neutral basis but US remains expensive



Source: Factset and Aon

Growth stocks will struggle if interest rates remain elevated



Source: Macrobond



Relative Fixed Income Views*

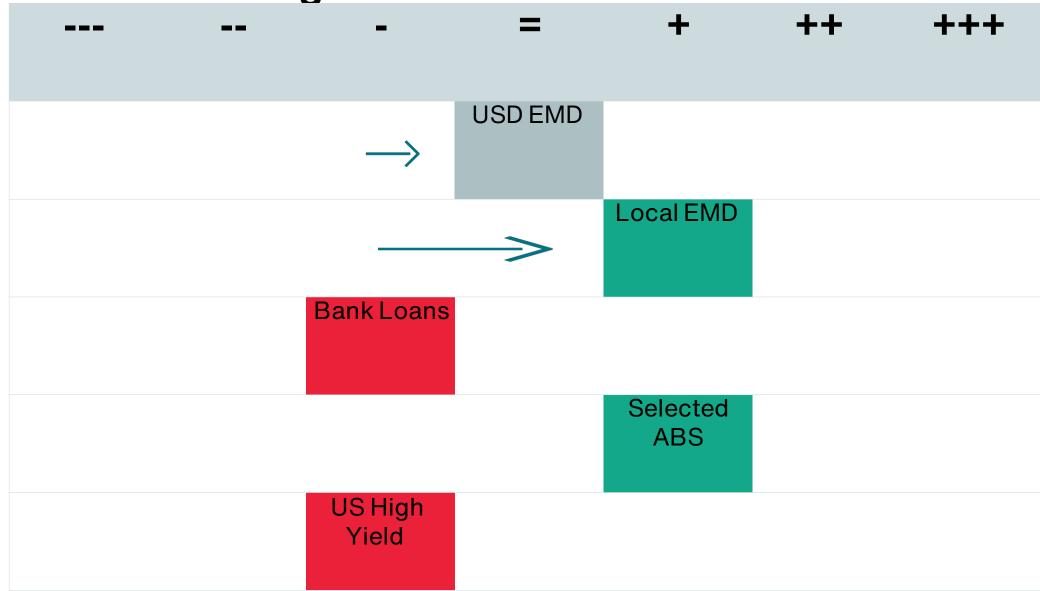
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U.S. Core Fixed Income



Yields rose significantly last year and the future path of yields appears uncertain until the depth of the upcoming economic downturn becomes more clear.

Return-Seeking Fixed Income



Better than expected global economic data in Q4, better news out of China and lower expected pressure from the US dollar have lowered risks for Emerging market debt and yield levels are attractive at historically elevated levels. Cheap currencies and high real yields additionally support locally-denominated debt.



U.S. Core Fixed Income

Treasuries closer to fair value but expect continued volatility

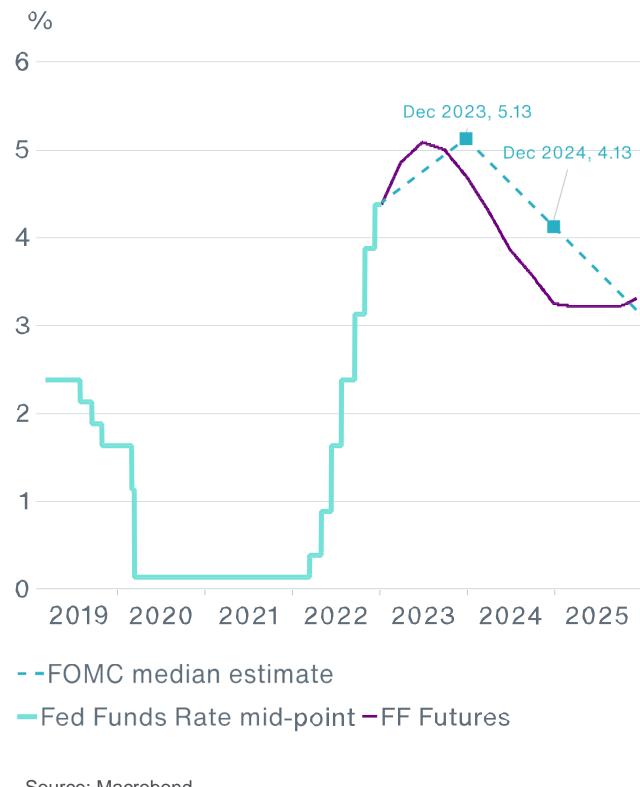
Markets are now pricing in policy rate cuts starting as soon as this summer, in contrast with the Fed's reaffirmation of its plans to continue rate hikes and to then hold rates at "sufficiently restrictive" levels for some time. We believe the Fed will wait for confirmation that disinflation is permanent before cutting rates, and our view is that the path of rates will likely follow the Fed's projections rather than the market's.

We consider short-dated treasuries are expensive, but we think 10-year and 30-year treasuries are closer to fair value. Whilst current yields are attractive relative to the past decade, upside inflation risks remain and could contribute to continued yield volatility. We therefore maintain our neutral view towards treasuries.

TIPS yields have reached attractive levels. However, falling inflation could depress break-evens and keep TIPS in line with fixed treasuries on a duration-neutral basis. We are therefore keeping our neutral view on them vs. fixed treasuries.

We still think that credit spreads can widen further but current levels provide some cushion for investment credit returns relative to government bonds amidst strong demand for high quality credit.

The Fed is projecting a more hawkish rates path than the market is pricing in



Source: Macrobond

Rise in yields improves TIPS outlook but they may struggle to outperform fixed treasuries whilst actual inflation is falling



-20-Year TIPS Zero-Coupon Yield

Source: Macrobond



Return-Seeking Credit

Upgrading Emerging market debt

Emerging market debt performed poorly last year up until November 2022 as a result of the strong rise in US treasury yields, a strong US dollar and a deterioration in the global context. However, an improvement across the board in these drivers caused EM debt to rally towards the end of the year. China's expected cyclical recovery, is supportive of EM growth and debt markets too. Inflation is also falling in an increasing number of EM countries.

We are therefore upgrading our EM debt outlook (on the assumption of a shallow global downturn). We have a preference for locally-denominated debt markets due to relatively high real yields and attractive currencies.

We do not recommend moving back to target weights yet in US high yield bonds and loans. HY credit spreads have contracted to below 450bps and this is a long way below the 600bps peak reached in the summer. As we expect corporate pricing power and profits to erode on weakening economic growth and rising wages, we think credit spreads will widen once more.

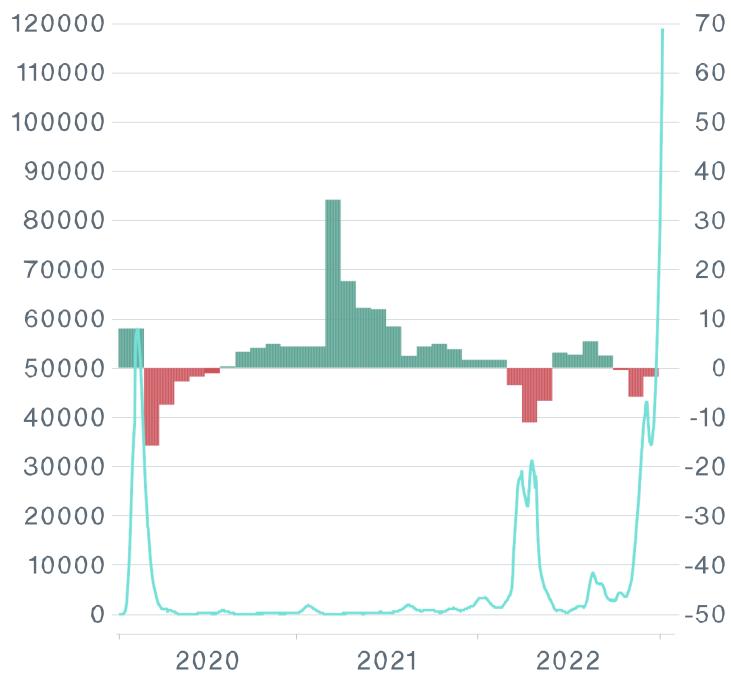
Leveraged loans underperformed high yield bonds in Q4, after strong outperformance earlier in the year and after we downgraded them last quarter on concerns over credit quality going into an economic slowdown.

Larger increase in US\$-denominated EM debt yields and longer duration caused US EM debt to underperform local EM debt last year



Source: Macrobond

The end of lockdowns will be positive for Chinese growth in spite of the impact on Covid cases



-Covid cases, Ihs Retail Trade Y/Y %, rhs

Source: Macrobond, China National Bureau of Statistics



Relative Alternative and Currency Views*

*Asset class views are relative to others within the asset class and not relative to other asset types. There should be no read-across from equities to credit, for example.

Alternatives



Our different thoughts on alternatives worked well in 2022 with real estate and commodity prices falling with the global downturn and alternatives that are less correlated with the economic cycle proving their worth. Diversifying hedge funds, especially macro hedge funds, performed well and they continue to perform a very important role in providing resilience to portfolios, alongside other diversifying alternatives.

Currency views vs USD



We have downgraded the US dollar across major currencies on the back of our conviction that the US dollar peaked in September 2022 rather than a view that a clear dollar downtrend may be established quite yet. The US rate and US dollar outlook, stronger expected Chinese economic growth and attractive valuations support Emerging market currencies.



Alternatives

Private markets remain attractive but manager expertise will come into the spotlight

Private markets such as core and renewable infrastructure and direct lending to sectors supported by strong secular trends such as green technology and digitalisation remain amongst our preferred asset classes. Defensive strategies that are less impacted by a global economic slowdown and strategies that provide some interest rate and inflation protection hold attractions as we expect inflation and market volatility to remain somewhat more elevated than in the recent past.

The slow pace of valuing private assets mean that market valuations appear to have held up better than public markets over the last year but investors should not be fooled into thinking that private investments are immune from an economic slowdown. The currently challenging economic conditions provide opportunities for managers to make new private investments in secondary markets and their greater visibility and control over struggling investments provide some performance resilience, however.

We anticipate that there will be greater performance differences between private market funds as the global economy slows and managers' skill becomes more apparent. Managers with strong origination skills, access to the most attractive deal flow and the ability to intervene in struggling businesses will still be able to perform well.

Subject to these manager considerations and liquidity priorities, we suggest that any portfolio overweights to private assets that appear to be in place remain although returns may disappoint in the short-term.

Listed infrastructure outperformed other equity sectors last year given its more defensive nature (total return, USD, unhedged)



- -MSCI AC World Index
- -MSCI AC World Mid & Large Cap Infrastructure Index

Source: Macrobond



Currencies

We think that the US dollar has now peaked

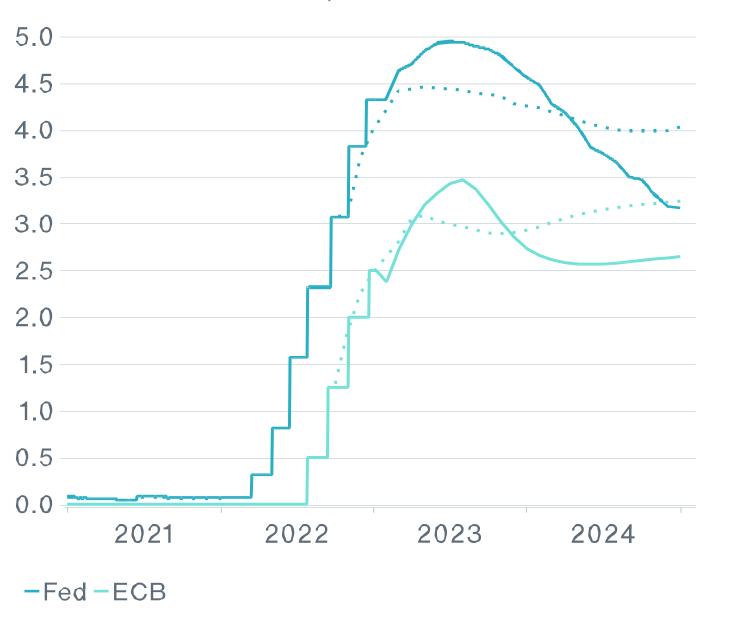
Q4 2022 saw the US dollar finally soften as the combination of signs of weaker US growth and falling inflation led to expectations that the US Fed would cut policy rates this year faster than previously anticipated. Additionally, better economic data from Europe and China's change in Covid policy softened fears over a global recession. The US Dollar Index fell by 7.5% in Q4 after rallying 25% since the start of 2021.

We think that we have seen the dollar peak at the end of September. However, we would not be surprised to see the dollar's decline halted as US rates stay higher for longer than markets are currently expecting. Any increase in global recession risk would also lend support to the dollar, especially now that there has been shakeout in investor sentiment and positioning from the previously bullish consensus.

The US interest rate premium over other key rates have fallen back since the start of November as US bond yields have retraced whilst German yields have remained much firmer and Japanese yields have risen after the Bank of Japan allowed 10-year yields to rise to around 0.5%, up from 0.25%, within its yield curve control policy. This relative rate move underlies the dollar move too.

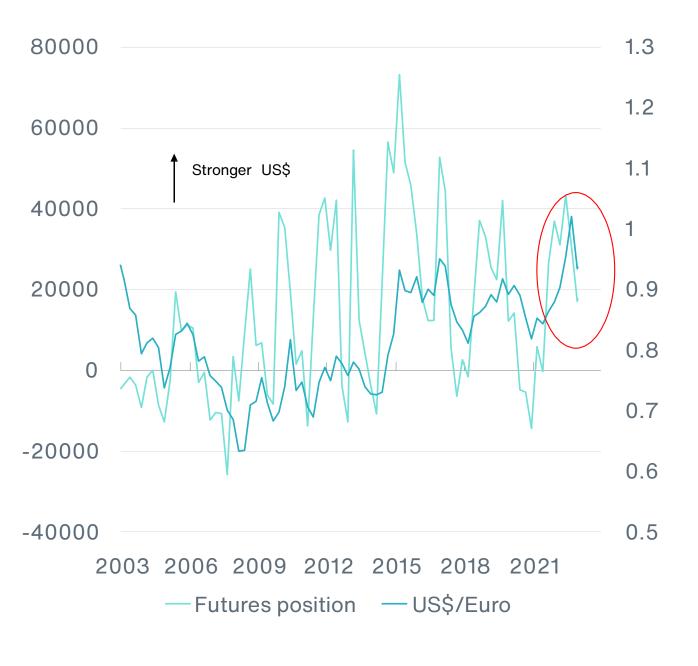
Market now expects faster US rate cuts than it did three months ago

Dotted line shows the market expectations (based on Fed funds and Euribor futures) at end Q3 2022



Source: Macrobond

Positive speculative bets on the US\$ have fallen back



Source: Bloomberg CFTC NYCE US\$ Index Net Non-Commercial Futures Positions



Appendix



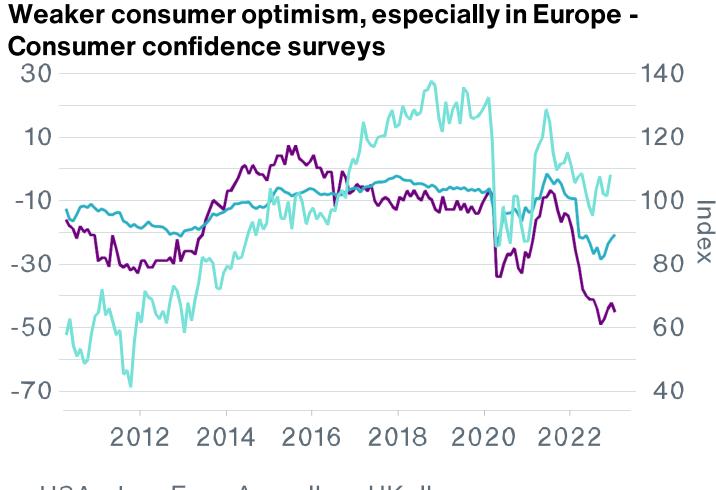


Economic Highlights

In Q4 2022, the major development was the clear peak in inflation around the world and the slowdown in monetary policy tightening by major central banks. This is not to say, however, that the process of policy tightening is over quite yet and further rate hikes are still likely in the early months of 2023. This is because inflation may remain uncomfortably high this year and it is possible that US economic growth may remain resilient with only a mild slowdown. Indeed, major central banks have reiterated their keen focus on bringing inflation down to target.

By the end of the quarter, there were also signs that China was relaxing its tough Covid policies and reopening its economy. An increase in its demand for key commodities will support its trading partners and Emerging economies in general.

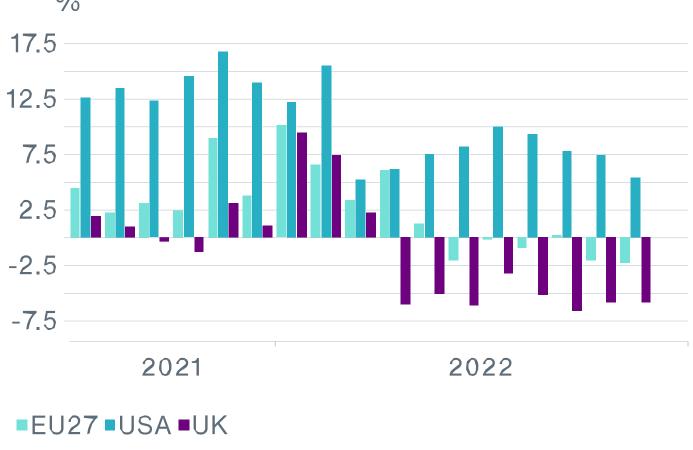
We still think that a global recession is likely at some point over the coming year, although it may be relatively shallow and short-lived. Meanwhile, inflation will likely fall over the coming year. Extreme uncertainty due to the war in Ukraine is making predictions especially difficult, however.





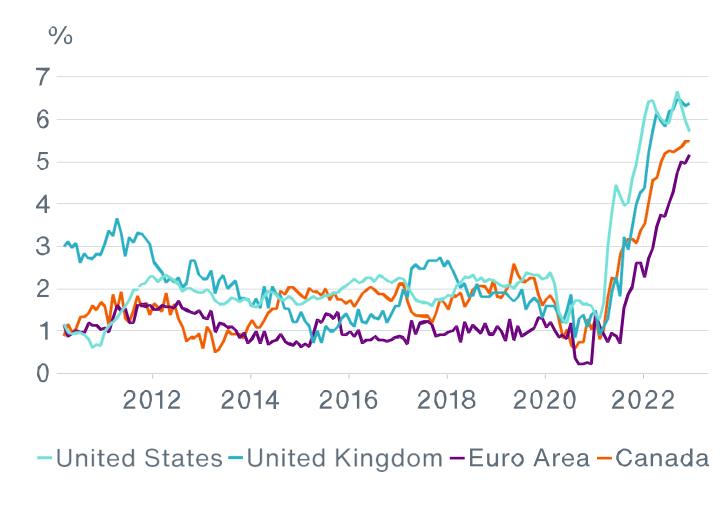
Source: Macrobond

US consumer strength stands in contrast to other developed economies - Retail Sales YoY



Source: Macrobond

Inflation has peaked - Core CPI YoY



Source: Macrobond



Economic Highlights

USA

The U.S. economy rebounded in the third quarter after it contracted in the first half of 2022. Annualized gross domestic product rose by 2.9% over Q3 2022, following the 0.6% contraction rate in the previous quarter. A narrowing trade deficit contributed to the U.S. economy's expansion in the third quarter, as softening consumer demand lowered imports while exports rose, particularly in the oil sector.

Inflation slowed down, driven by a fall in energy prices. The U.S. annual consumer price index (CPI) rose 6.5% year-on-year in December, down from the 7.1% recorded in December and the lowest rate in more than a year.

The U.S. Federal Reserve (Fed) increased its benchmark interest rate by 125bps to a range of 4.25%-4.5% over the quarter. Fed chair Jerome Powell reiterated that monetary policy needs to be restrictive enough to bring inflation under control. According to the median estimate on the Fed dot plot, officials expect the policy rate to reach 5.1% by the end of 2023, up from the 4.6% forecasted in September.

Non-US Developed

Eurozone GDP grew by 0.3% over Q3, down from 0.8% growth in the previous quarter but better than market expectations. It is still likely that the Eurozone economy will contract in coming months, but the possibility of a relatively shallow downturn also grew as the quarter progressed. Supporting this view is a record low unemployment rate and resilient industrial production figures, especially in Germany. Meanwhile, Eurozone annual inflation eased more than expected to 9.2% in December. The European Central Bank (ECB) raised its benchmark interest rate by 125bps to 2.5% over the quarter, the highest level in 14 years. The ECB president, Christine Lagarde, indicated 0.5% rate increases in the next two meetings as the ECB announced plans to start shrinking the €5tn of bonds it purchased over the last eight years from March 2023.

Japanese GDP contracted by 0.2% in Q3. Meanwhile, Japanese CPI remained the highest in decades at 3.8% by November.

UK GDP contracted by 0.3% in Q3, amid falling household incomes and business investment. Meanwhile, UK CPI slowed to 10.5% year-on-year in December, down from the previous month's 10.7%. The Bank of England (BoE) raised its benchmark interest rate by 125bps to 3.5% over the quarter, its highest level since 2008.

Emerging Markets

Following weeks of protests, the Chinese authorities finally relented and began the process of easing their strict Covid policies that have effectively cut off the country from the rest of the world and constrained domestic spending. GDP grew by just 3% in 2022. There is likely to be further positive effects on both Chinese and wider Emerging Market growth over the course of this year from fewer Chinese restrictions.

Emerging Market economies weakened in 2022 but the lack of a crisis akin to the Asian crisis in the 1990s or the Latin American crisis of the 1980s points to much greater resilience than in the past. Many Emerging Market central banks started to tighten monetary policy before the Federal Reserve last year, which indicates that monetary and fiscal management has become more robust across many countries.

Looking ahead to this year, less stress from the US dollar and US rates, lower energy prices and the reopening of the Chinese economy, should combine to set the stage for economic recovery in Emerging Markets.



View Guidance

Large underperformance expected with highest conviction

- Target larger underweight
- Bring forward selling plans and defer SAA buying implementation
- Do not rebalance to target weight yet

More underperformance or stronger conviction

- Target underweight
- Bring forward selling plans and defer SAA buying implementation
- Do not rebalance up to target weight yet

More likely to underperform

- Target small underweight to strategic weight
- Prefer to avoid buying and selling on strength
- Buying for SAA reasons fine, but add slowly or into weakness.
- Consider partial rather than full rebalancing

Weak conviction or no view on relative performance

- Target benchmark or strategic weight
- Buying/Selling both look ok coming from SAA changes or rebalancing



More likely to outperform

- Target small overweight to strategic weight
- Prefer to accumulate
- Selling for SAA reasons fine, but look to sell gradually
- Slow rebalancing moves back to benchmark weight



More outperformance or stronger conviction

- Target overweight
- Bring forward buying plans and defer SAA selling implementation
- Do not rebalance down to target weight yet



Large outperformance expected with highest conviction

- Target larger overweight
- Bring forward buying plans and defer SAA selling implementation
- Do not rebalance to target weight yet



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Index Definitions

MSCI AC World Index - The MSCI ACWI captures large and mid-cap representation across 23 Developed Markets (DM) and 24 Emerging Markets (EM) countries. With 2,897 constituents, the index covers approximately 85% of the global investable equity opportunity set.

MSCI USA Index - The MSCI USA Index is designed to measure the performance of the large and mid-cap segments of the US market. With 624 constituents, the index covers approximately 85% of the free float-adjusted market capitalization in the US.

MSCI UK Index – The MSCI United Kingdom Index is designed to measure the performance of the large and mid-cap segments of the UK market. With 82 constituents, the index covers approximately 85% of the free float-adjusted market capitalization in the UK.

MSCI European Union Index – The MSCI European Union (EU) Index captures large and mid-cap representation across the 13 Developed Markets (DM) countries and 4 Emerging Markets (EM) countries in Europe. With 322 constituents, the index covers approximately 85% of the free float-adjusted market capitalization in the European equity universe.

MSCI Japan Index – The MSCI Japan Index is designed to measure the performance of the large and mid-cap segments of the Japanese market. With 237 constituents, the index covers approximately 85% of the free float-adjusted market capitalization in Japan.

MSCI Canada Index - The MSCI Canada Index is designed to measure the performance of the large and mid-cap segments of the Canada market. With 88 constituents, the index covers approximately 85% of the free float-adjusted market capitalization in Canada.

MSIC Emerging Markets index - The MSCI Emerging Markets Index captures large and mid cap representation across 24 Emerging Markets (EM) countries. With 1,377 constituents, the index covers approximately 85% of the free float-adjusted market capitalization in each country.

MSCI World Value Index - The MSCI World Value Index captures large and mid-cap securities exhibiting overall value style characteristics across 23 Developed Markets (DM) countries. The value investment style characteristics for index construction are defined using three variables: book value to price, 12-month forward earnings to price and dividend yield.

MSCI World Growth Index - The MSCI World Growth Index captures large and mid-cap securities exhibiting overall growth style characteristics across 23 Developed Markets (DM) countries. The growth investment style characteristics for index construction are defined using five variables: long-term forward EPS growth rate, short-term forward EPS growth rate, current internal growth rate and long-term historical EPS growth trend and long-term historical sales per share growth trend.

MSCI ACWI Infrastructure Index - The MSCI ACWI Infrastructure Index captures the global opportunity set of companies that are owners or operators of infrastructure assets. Constituents are selected from the equity universe of MSCI ACWI, the parent index, which covers mid and large cap securities across 23 Developed Markets (DM) and 25 Emerging Markets (EM) countries*. All index constituents are categorized in one of thirteen sub-industries according to the Global Industry Classification Standard (GICS®), which MSCI groups into five infrastructure sectors: Telecommunications, Utilities, Energy, Transportation and Social.

ICE BofAML Global Government Index - An unmanaged index considered representative of fixed-income obligations issued by global governments.

ICE BofAML Global Large Cap Corporate Index - An unmanaged index considered representative of fixed-income obligations issued by global large cap corporates.

JPMorgan EMBI Global Diversified Index - The index is an unmanaged, market-capitalization weighted, total-return index tracking the traded market for U.S.-dollar-denominated Brady bonds, Eurobonds, traded loans, and local market debt instruments issued by sovereign and quasi-sovereign entities within the emerging markets.

JPMorgan GBI-EM Global Diversified Index – A comprehensive emerging market debt benchmark that tracks local currency bonds issued by Emerging market governments.



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