

**copia:capital**

## Monthly Portfolio Update

November 2022

For advisers only



**Market Performance**

**Risk Barometer**

**Portfolio Realignments**

**Portfolio Performance**

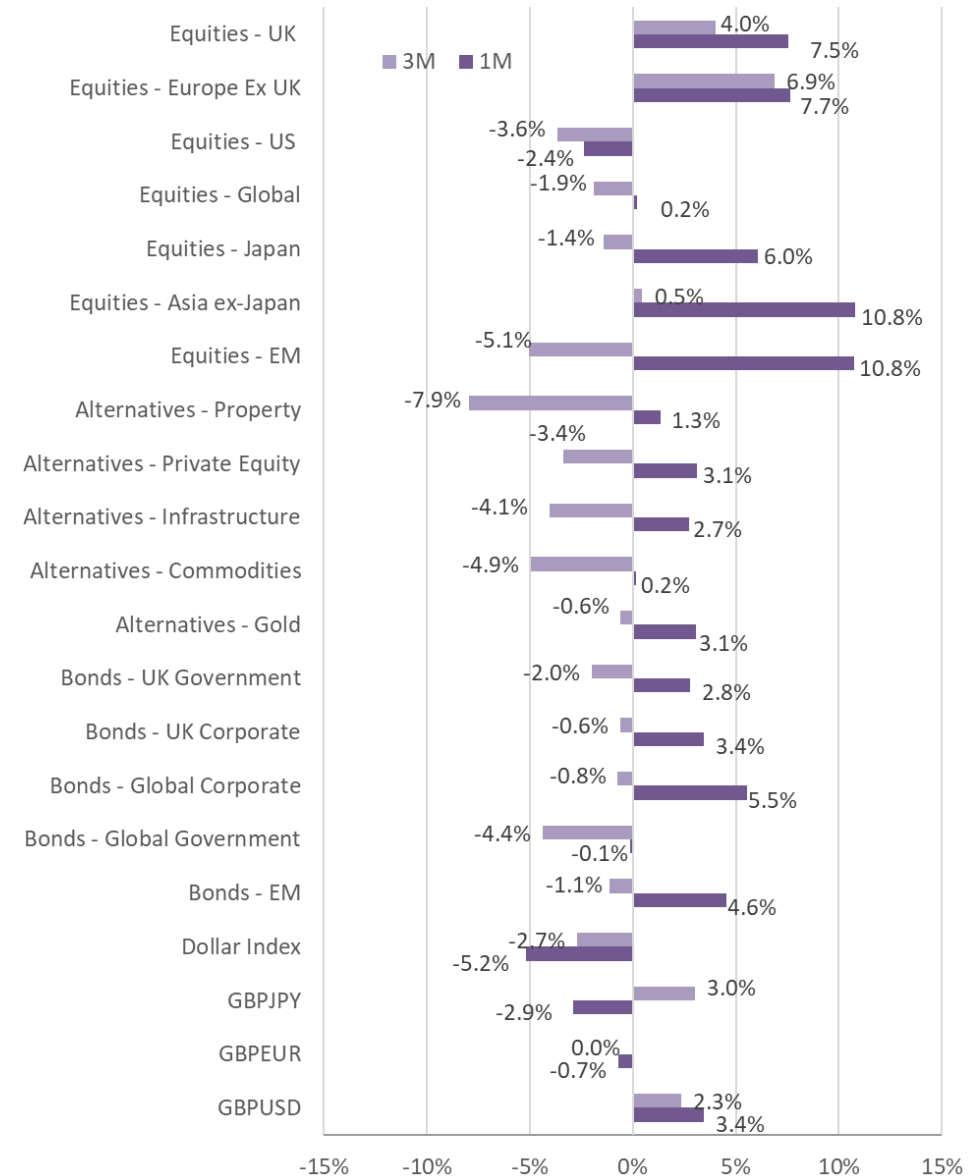
**Outcome Charts**



## Market performance

- Global equities continued to recover from their October lows with positive returns generated across regions. Developed markets posted high single digit gains despite some mixed economic data points. While the UK and Eurozone posted historically high inflation rates (11.1% and 10.6% respectively) relative improvements in consumer confidence and economic activity helped lift markets higher. The US market rallied sharply in local currency terms after releasing an inflation figure (CPI 7.7%) that came in below expectations, leading to expectations that inflationary pressures and interest rates may be turning lower. Emerging markets posted impressive double-digit gains over the month. In November, China announced several measures to help reduce Covid restrictions and this led to a surge across Chinese and periphery Asian markets.
- Central Banks delivered another sizeable interest rate hike in November with the FED and Bank of England raising rates by 0.75% and 0.50% respectively. That said, comments from several US policy makers indicated that they may slow the pace of future increases to help achieve lower inflation without tipping the economy into a deeper recession. Given this more 'dovish' tone, bond markets rallied over the month across regions and the credit spectrum.
- Commodities traded up in aggregate over the month with strong gains in precious and industrial metals offsetting weakness in the energy and agriculture sectors. Metals were supported by a weaker dollar and lower bond yields. Surprisingly, crude oil prices declined over the month wiping out most of the gains in 2022. It appears that concerns over global recessionary forces coupled with China's lockdowns have outweighed any fear about supply disruptions. While natural gas sold off in recent months due to high reserves and mild weather, it rebounded in November over concerns of potential power outages as we enter the coldest months of the year.
- The markets continue to grapple with future inflation and interest rate expectations as well as ongoing geopolitical uncertainty. To add to this, the war in Ukraine rages on with no near-term resolution in sight and COVID lockdown policies in China have weighed on growth prospects in the region and globally. With this backdrop, we continue to believe that caution is warranted for the time being.

## Market Performance



Source: Refinitiv Datastream, Copia Capital Management. All numbers expressed in GBP

Asset class overview: performance table

	%mm Performance												Return Characteristics									Risk Characteristics				
	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	3M	6M	12M	36M	2017	2018	2019	2020	2021	YTD	Annualised Volatility 1Y	Annualised Volatility 3Y	Maximum Return Drawdown* 1Y	Maximum Return Drawdown* 3Y
Equities - UK	4.7%	-0.2%	-1.3%	2.9%	-0.6%	1.2%	-6.1%	3.9%	-1.4%	-5.7%	2.6%	7.5%	4.0%	0.0%	6.7%	11.4%	13.1%	-9.2%	19.1%	-9.4%	17.7%	1.9%	14.0%	17.2%	-10.9%	-35.8%
Equities - Europe Ex UK	4.3%	-6.1%	-4.7%	4.5%	-3.0%	1.0%	-8.4%	6.4%	-2.3%	-4.9%	4.3%	7.7%	6.9%	1.8%	-2.8%	18.7%	16.0%	-9.5%	21.0%	8.2%	16.3%	-6.8%	18.9%	18.0%	-19.3%	-30.9%
Equities - US	2.8%	-6.7%	-2.3%	8.8%	-3.5%	-2.2%	-5.7%	8.7%	1.7%	-4.0%	2.8%	-2.4%	-3.6%	0.5%	-3.3%	40.3%	10.5%	0.2%	26.3%	13.8%	31.2%	-6.0%	17.9%	15.8%	-15.1%	-26.4%
Equities - Global	2.4%	-6.4%	-2.0%	7.5%	-3.4%	-1.5%	-6.0%	7.6%	1.2%	-4.4%	2.3%	0.2%	-1.9%	0.4%	-3.6%	31.0%	11.8%	-3.5%	23.2%	12.4%	23.8%	-5.9%	16.2%	15.3%	-14.9%	-26.2%
Equities - Japan	-0.4%	-5.0%	-0.7%	1.7%	-3.5%	0.9%	-5.6%	6.4%	1.8%	-5.6%	-1.5%	6.0%	-1.4%	0.8%	-6.2%	7.0%	13.5%	-7.5%	13.9%	12.6%	2.4%	-5.9%	14.3%	14.7%	-16.9%	-24.6%
Equities - Asia ex-Japan	1.9%	-5.4%	2.7%	9.7%	-1.5%	-0.8%	-5.0%	3.7%	2.4%	-5.1%	-4.5%	10.8%	0.5%	1.4%	7.6%	15.0%	14.5%	-5.1%	13.9%	3.4%	5.5%	5.6%	19.2%	19.2%	-12.5%	-31.1%
Equities - EM	0.8%	-2.0%	-3.4%	1.1%	-1.5%	0.1%	-2.6%	-1.0%	5.0%	-7.3%	-7.5%	10.8%	-5.1%	-3.9%	-8.6%	6.8%	24.8%	-9.6%	13.9%	14.3%	-1.7%	-9.4%	17.3%	16.7%	-20.8%	-27.1%
Alternatives - Property	3.9%	-5.9%	-1.4%	7.5%	0.9%	-6.9%	-5.9%	7.7%	-1.7%	-9.1%	-0.1%	1.3%	-7.9%	-8.3%	-10.7%	-5.1%	1.6%	0.0%	17.7%	-11.7%	28.3%	-14.0%	19.0%	19.4%	-19.4%	-35.0%
Alternatives - Private Equity	0.0%	-6.1%	-3.0%	2.9%	-5.6%	-0.9%	-9.6%	11.9%	-1.1%	-10.5%	4.7%	3.1%	-3.4%	-3.4%	-15.3%	24.2%	13.8%	-8.9%	39.3%	1.2%	43.6%	-15.3%	22.1%	25.7%	-24.7%	-44.5%
Alternatives - Infrastructure	0.1%	-3.2%	-0.9%	3.6%	-1.5%	-0.2%	-2.4%	5.0%	1.5%	-5.3%	-1.4%	2.7%	-4.1%	-0.2%	-2.4%	8.7%	3.0%	1.5%	14.6%	3.8%	7.2%	-2.5%	10.2%	10.6%	-10.4%	-15.1%
Alternatives - Commodities	2.3%	7.8%	6.1%	12.5%	8.5%	2.5%	-7.2%	2.8%	4.5%	-2.5%	-2.7%	0.2%	-4.9%	-5.2%	38.7%	86.5%	-6.2%	-3.2%	4.0%	-0.9%	34.6%	35.6%	18.9%	14.7%	-15.7%	-17.4%
Alternatives - Gold	0.5%	-0.8%	5.9%	4.3%	2.7%	-3.8%	1.8%	-2.5%	1.9%	1.6%	-5.1%	3.1%	-0.6%	0.5%	9.4%	29.3%	1.6%	4.3%	14.6%	20.0%	-2.9%	8.8%	11.4%	12.4%	-9.9%	-22.3%
Bonds - UK Government	-2.7%	-3.3%	-2.2%	-1.9%	-2.3%	-2.3%	-4.0%	2.4%	-6.8%	-8.2%	3.8%	2.8%	-2.0%	-10.1%	-22.5%	-19.5%	1.8%	0.3%	6.6%	8.4%	-5.2%	-20.4%	12.5%	10.3%	-33.4%	-36.5%
Bonds - UK Corporate	-1.2%	-2.6%	-2.7%	-1.0%	-2.4%	-0.9%	-4.0%	3.0%	-5.5%	-7.7%	4.1%	3.4%	-0.6%	-7.1%	-16.7%	-12.2%	4.3%	-1.6%	9.3%	7.9%	-3.1%	-15.7%	12.4%	9.7%	-26.1%	-27.1%
Bonds - Global Corporate	0.3%	-3.2%	-2.2%	-1.8%	-5.5%	0.3%	-3.7%	3.2%	-4.2%	-5.3%	-0.8%	5.5%	-0.8%	-5.5%	-16.5%	-10.6%	8.8%	-3.9%	11.6%	10.0%	-3.3%	-16.7%	11.6%	9.5%	-22.9%	-25.1%
Bonds - Global Government	-2.7%	-1.6%	-1.0%	-1.4%	-1.5%	-0.1%	0.5%	1.9%	0.0%	-0.6%	-3.7%	-0.1%	-4.4%	-2.1%	-9.9%	-9.3%	-3.4%	5.2%	2.5%	5.7%	-5.6%	-7.4%	5.1%	6.9%	-11.0%	-20.9%
Bonds - EM	0.4%	-3.2%	-5.5%	1.3%	-1.7%	-0.3%	-3.3%	4.3%	1.8%	-2.2%	-3.3%	4.6%	-1.1%	1.5%	-7.5%	-6.3%	0.1%	0.0%	12.3%	1.9%	-1.1%	-7.9%	11.0%	11.6%	-14.4%	-19.6%
GBPUSD	2.4%	-0.9%	0.0%	-1.9%	-4.6%	0.4%	-3.6%	0.2%	-4.4%	-4.1%	3.1%	3.4%	2.3%	-5.5%	-10.0%	-7.9%	9.5%	-5.9%	4.0%	3.2%	-0.9%	-12.1%	10.1%	9.1%	-21.8%	-24.4%
GBPEUR	1.3%	0.5%	-0.2%	-0.9%	0.6%	-1.1%	-1.3%	2.7%	-3.0%	-1.5%	2.2%	-0.7%	0.0%	-1.7%	-1.6%	-1.4%	-3.8%	-1.1%	5.9%	-5.3%	6.6%	-2.9%	5.8%	5.4%	-7.8%	-11.3%
GBPJPY	3.8%	-0.9%	0.0%	3.4%	1.8%	-0.3%	1.8%	-1.4%	-0.8%	0.2%	5.9%	-2.9%	3.0%	2.5%	10.6%	17.3%	5.7%	-8.3%	3.0%	-2.0%	10.5%	6.5%	8.8%	8.3%	-7.7%	-12.7%
Dollar Index	-0.3%	1.0%	0.1%	1.6%	5.0%	-1.4%	2.9%	1.1%	2.7%	3.2%	-0.6%	-5.2%	-2.7%	4.0%	10.2%	7.6%	-9.8%	4.1%	0.4%	-6.8%	6.3%	10.6%	9.1%	7.2%	-7.4%	-13.2%

Source: Refinitiv Datastream, Copia Capital Management.

Notes:

Returns based on Total return, assuming income is re-invested immediately and rebalanced on due dates.

The performance of each asset class is represented by relevant indices and expressed in GBP terms, which are selected by Copia Capital Management. Reference to a particular asset class does not represent a recommendation to seek exposure to that asset class. \*Maximum Return Drawdown is defined as the largest single drop from peak to trough of the value of an asset class or portfolio over any timeframe within the stated period. This information is included for comparison purposes for the period stated, but is not an indicator of potential maximum loss for other periods or in the future.



**Market Performance**  
**Risk Barometer**  
**Portfolio Realignments**  
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**-0.76**

As of 31-Oct-2022



**-0.72**

As of 30-Nov-2022

Based on our proprietary Prediction Algorithm the Copia Risk Barometer is reading -0.72 as of 30-November-2022, a change of +0.04 from last month, staying in the Red zone, indicating that the global economic outlook continues to be negative.

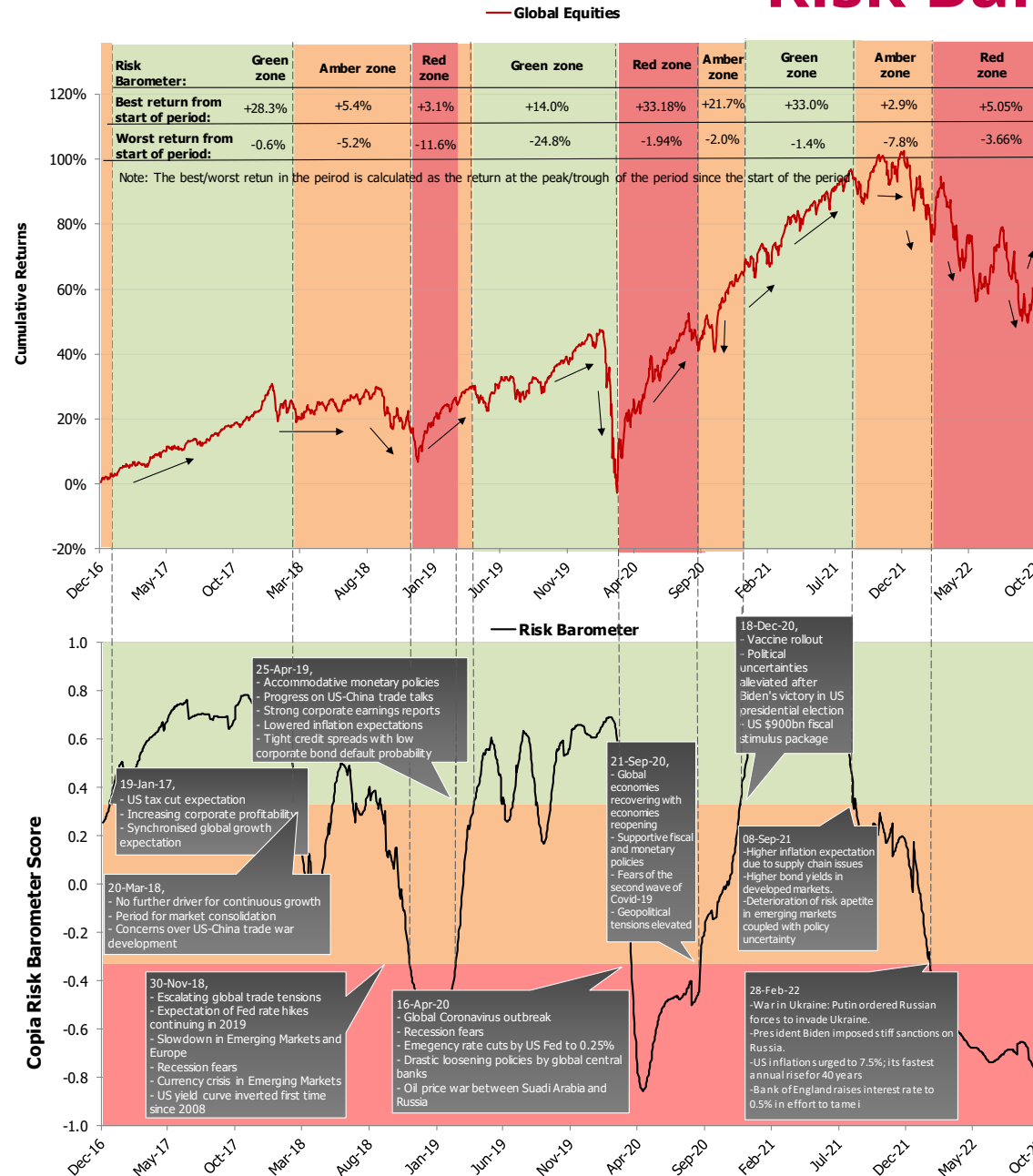
## Primary drivers for the Risk Barometer:

- **Government bond markets:** Major global yield curves continue to be heavily inverted following a steep shift upwards in major developed market yield curves over the last quarter. This is a cautionary signal from the bond markets suggesting the liquidity fuelled rally in risk assets is coming to an end. Historically recessions have followed 9 out of 10 times, 18 months from the point when the yield curve inverts and remains in inversion.
- **Equity market pricing:** Economic growth expectations have been lowered going forward as companies start to feel the pressure from supply chain issues, rising inflation and stalling growth. Geopolitical uncertainty remains high and equities are likely to remain volatile in the near term. Markets have also lost its long term positive momentum and are in bear market territory. As such the equity market signals are presenting a cautious signal.
- **Credit Spreads:** The tight credit spreads which had underpinned positive sentiment in risk assets all through 2021 have materially expanded. Rising Credit Default Swap indices indicate corporate bond investors have now started to price in a probability of an inflation/Fed induced recession. Although these levels are not comparable to those seen during the Covid recession, the spreads have materially widened compared to levels seen over the last few months.
- **Overall:** The Risk Barometer is picking up much more negative signals than positive ones and is indicating a negative outlook toward risk assets. Volatility is likely to persist and if these conditions continue, economic growth outlook will be challenging for the rest of 2022.

Note: The Risk Barometer score varies between -1.0 and +1.0. A score of -1.0 indicates an extremely poor economic outlook, which is accompanied by a high probability of negative returns in risky asset classes. A score of 0 indicates a neutral economic outlook with almost equal probability of positive and negative returns in risky asset classes. A score of +1.0 indicates an extremely positive economic outlook, which is accompanied by a high probability of positive returns in risky asset classes.

## Risk Barometer history

- The top chart shows the market performance (best and worst returns) during different Risk Barometer regimes.
- The bottom chart shows how the Risk Barometer has moved between different regimes and the triggers for regime changes.
- The Risk Barometer is a forward-looking quantitative model that provides a systematic rules-based approach for dynamic risk management.



Note: The Risk Barometer score varies between -1.0 and +1.0.

A score of -1.0 indicates an extremely poor economic outlook, which is accompanied by a high probability of negative returns in risky asset classes.

A score of 0 indicates a neutral economic outlook with almost equal probability of positive and negative returns in risky asset classes.

A score of +1.0 indicates an extremely positive economic outlook, which is accompanied by a high probability of positive returns in risky asset classes.

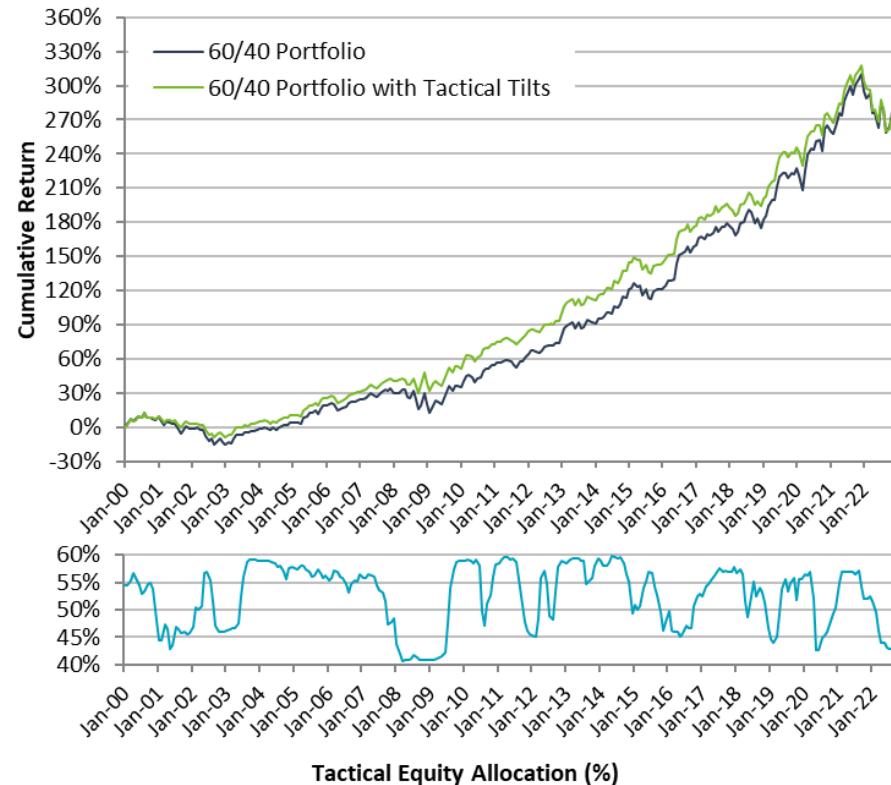
Source: Copia Capital Management, Refinitiv Datastream

Global Equities Returns is based on actual data of MSCI World Index for the period between 31-Dec-2016 and 30-Nov-2022.

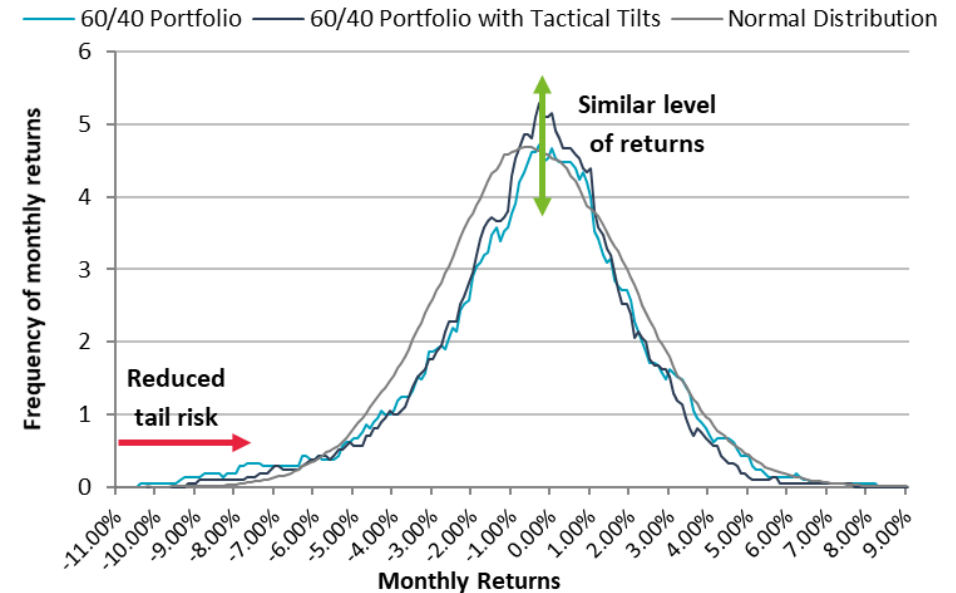


## Impact of dynamic risk management using the Risk Barometer

- Objective is to achieve similar levels of returns, with a narrower dispersion of returns (reduced tail risk)
- Can enhanced risk-adjusted returns
- Can deliver a smoother investment journey whilst mitigating downside risk
- We evaluate impact using a theoretical 60/40 portfolio with and without the Risk Barometer



	Annualised Return	Annualised Volatility	Sharpe Ratio	Maximum Drawdown
60/40 Portfolio	5.98%	8.38%	0.71	-25.40%
60/40 Portfolio with Tactical Tilts	5.94%	7.30%	0.81	-19.13%
Impact	→ -0.04%	↓ -12.87%	↑ 14.09%	↓ -24.68%



Note: 60/40 Portfolio consists of 60% allocation to MSCI World Index and 40% allocation US 10 year Bond Index rebalanced monthly. Figures are based on historic actual figures in GBP terms for the period 31-Jan-2000 and 30-Nov-2022. All return figures are before fees.

The 60/40 Portfolio with Tactical Tilts consists of dynamic allocation to MSCI World Index within a range of 40% to 60% driven by the Risk Barometer. The portfolio is rebalanced monthly and remaining allocation is to US 10 year Bond Index.

Source: Copia Capital Management, Refinitiv Datastream



**Market Performance**  
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**November Re-alignment**

No portfolio was rebalanced in November 2022.

2022	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Select Accumulation & Select ESG	█			█			█			█		
Select Volatility			█				█		█			
Select Preservation			█			█			█			
Select Decumulation		█				█						
Thematic			█			█			█			
Select Blended	█			█			█			█		



**Market Performance**  
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**Select Volatility**

Previously known as 'Volatility Focus'

	%mm Performance												Return Characteristics										Risk Characteristics				
	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	3M	6M	12M	36M	2017	2018	2019	2020	2021	YTD	Since Inception (28 Oct 13)	Annualised Volatility 1Y	Annualised Volatility 3Y	Maximum Return Drawdown* 1Y	Maximum Return Drawdown* 3Y
1	-0.1%	-1.2%	-0.3%	-1.2%	0.8%	0.1%	0.5%	0.9%	-1.5%	-1.8%	1.2%	-0.3%	-0.8%	-1.0%	-2.9%	-2.9%	0.6%	-0.3%	3.0%	1.0%	-1.2%	-2.8%	6.5%	3.5%	2.9%	-4.1%	-7.8%
2	-0.7%	-1.5%	-0.1%	-0.6%	2.1%	0.2%	1.4%	0.7%	0.9%	0.5%	-0.6%	-1.5%	-1.7%	1.3%	0.6%	1.5%	0.7%	-0.1%	3.3%	0.8%	-0.8%	1.3%	11.2%	3.9%	3.4%	-4.7%	-9.2%
3	-0.5%	-2.6%	-0.6%	0.2%	1.2%	0.0%	0.1%	0.7%	0.0%	-0.7%	0.2%	-0.5%	-1.1%	-0.3%	-2.6%	-1.0%	3.4%	-2.5%	5.7%	-0.9%	1.8%	-2.1%	16.0%	3.2%	4.8%	-5.8%	-14.0%
4	-0.1%	-2.9%	-0.7%	0.5%	0.7%	-0.1%	-1.0%	0.9%	0.0%	-1.0%	-0.2%	0.1%	-1.0%	-1.2%	-3.6%	-0.5%	4.0%	-3.5%	6.3%	-0.7%	3.6%	-3.6%	20.4%	3.5%	5.7%	-6.0%	-15.9%
5	0.2%	-3.6%	-0.9%	0.8%	0.5%	0.0%	-1.9%	1.5%	-0.3%	-1.7%	-0.8%	0.7%	-1.7%	-2.4%	-5.4%	-3.1%	6.4%	-4.7%	8.0%	-2.0%	4.4%	-5.6%	19.4%	4.9%	7.4%	-7.5%	-19.5%
6	0.8%	-4.0%	-1.0%	1.7%	0.7%	0.0%	-1.5%	1.5%	0.0%	-1.8%	-0.5%	1.3%	-1.0%	-1.0%	-2.9%	0.0%	7.2%	-5.0%	9.2%	-2.8%	6.6%	-3.7%	25.2%	5.7%	8.1%	-7.3%	-20.7%
7	1.0%	-4.6%	-1.1%	2.1%	0.7%	0.0%	-2.1%	1.6%	0.2%	-1.5%	-0.4%	1.0%	-0.9%	-1.2%	-3.2%	1.7%	8.2%	-5.0%	10.1%	-3.2%	9.3%	-4.2%	31.5%	6.4%	8.8%	-8.2%	-20.9%
8	1.4%	-4.9%	-1.2%	2.7%	0.7%	-0.4%	-2.8%	2.0%	0.3%	-1.7%	-0.8%	1.8%	-0.7%	-1.2%	-3.1%	5.6%	8.7%	-5.4%	10.4%	-1.2%	11.5%	-4.4%	37.7%	7.7%	9.2%	-8.9%	-19.8%
9	1.8%	-5.3%	-1.4%	3.3%	0.4%	-0.6%	-3.2%	2.3%	0.4%	-1.6%	-1.6%	2.5%	-0.7%	-1.2%	-3.3%	5.1%	9.3%	-7.0%	12.0%	-2.2%	13.0%	-5.0%	39.9%	8.8%	10.9%	-9.7%	-23.6%
10	1.9%	-5.4%	-1.5%	3.5%	-0.5%	-1.2%	-4.5%	1.8%	0.4%	-1.8%	-1.6%	3.3%	-0.3%	-2.7%	-6.0%	3.5%	9.6%	-7.3%	12.7%	-0.5%	12.5%	-7.7%	37.7%	9.7%	10.7%	-11.4%	-22.4%

Source: Copia Capital Management

**Select Thematic**

Previously known as 'Copia Enhanced Equity'

	%mm Performance												Return Characteristics										Risk Characteristics				
	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	3M	6M	12M	36M	2017	2018	2019	2020	2021	YTD	Since Inception (14 Mar 16)	Annualised Volatility 1Y	Annualised Volatility 3Y	Maximum Return Drawdown* 1Y	Maximum Return Drawdown* 3Y
Select Thematic	-0.6%	-8.6%	0.5%	4.1%	-4.3%	-2.2%	-4.7%	5.8%	1.9%	-5.1%	1.9%	1.1%	-2.2%	0.6%	-10.5%	7.4%	15.4%	-7.9%	12.9%	3.0%	14.6%	-10.0%	53.7%	14.6%	13.9%	-19.3%	-26.7%

Source: Copia Capital Management

Notes: Returns based on Total return, assuming income is re-invested immediately and rebalanced on due dates.

Select Accumulation  
Previously known as 'Select'

	%mm Performance												Return Characteristics										Risk Characteristics				
	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	3M	6M	12M	36M	2017	2018	2019	2020	2021	YTD	Since Inception (31 Oct 16)	Annualised Volatility 1Y	Annualised Volatility 3Y	Maximum Return Drawdown* 1Y	Maximum Return Drawdown* 3Y
Cautious	1.2%	-1.8%	-1.2%	1.3%	-1.0%	0.0%	-2.6%	2.4%	-0.9%	-3.3%	0.6%	2.1%	-0.7%	-1.8%	-3.4%	3.4%	3.0%	-0.5%	9.1%	6.2%	2.0%	-4.5%	15.1%	6.4%	5.6%	-8.1%	-9.4%
Moderate	1.4%	-2.3%	-1.5%	1.7%	-1.2%	0.0%	-3.0%	2.7%	-0.4%	-4.2%	-0.2%	3.3%	-1.3%	-2.0%	-3.8%	7.6%	6.0%	-1.8%	12.7%	6.9%	6.0%	-5.2%	27.0%	7.9%	7.6%	-9.5%	-13.5%
Balanced	1.9%	-3.1%	-1.7%	2.7%	-1.5%	-0.1%	-3.6%	3.2%	0.4%	-4.6%	-0.1%	3.7%	-1.1%	-1.3%	-3.2%	12.9%	8.8%	-4.0%	15.7%	7.0%	10.3%	-5.0%	37.6%	9.5%	10.2%	-10.3%	-19.8%
Growth	2.4%	-4.0%	-1.9%	4.0%	-1.9%	-0.3%	-4.7%	4.1%	1.1%	-5.3%	0.0%	3.8%	-1.6%	-1.2%	-3.3%	15.8%	10.0%	-4.3%	17.6%	6.5%	13.7%	-5.5%	44.4%	11.8%	12.1%	-11.4%	-23.3%
Equity	2.5%	-4.2%	-1.6%	4.1%	-1.9%	-0.3%	-4.6%	3.9%	1.4%	-5.4%	-0.2%	4.2%	-1.6%	-1.2%	-2.8%	19.4%	12.1%	-5.2%	18.1%	7.2%	15.9%	-5.2%	50.9%	11.9%	12.6%	-11.1%	-24.3%

Source: Copia Capital Management

Select ESG

	%mm Performance												Return Characteristics										Risk Characteristics				
	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	3M	6M	12M	36M	2017	2018	2019	2020	2021	YTD	Since Inception (31 Mar 20)	Annualised Volatility 1Y	Annualised Volatility 3Y	Maximum Return Drawdown* 1Y	Maximum Return Drawdown* 3Y
Cautious	0.9%	-2.2%	-0.8%	0.5%	-0.6%	-0.6%	-2.3%	2.9%	-2.1%	-4.2%	1.1%	2.3%	-1.0%	-2.6%	-5.3%	#N/A	#N/A	#N/A	#N/A	#N/A	1.9%	-6.1%	4.3%	7.2%	#N/A	-10.0%	#N/A
Moderate	1.0%	-2.7%	-1.0%	0.8%	-0.9%	-0.7%	-2.9%	3.4%	-2.1%	-5.4%	0.6%	3.5%	-1.5%	-3.3%	-6.7%	#N/A	#N/A	#N/A	#N/A	#N/A	6.4%	-7.6%	13.3%	9.0%	#N/A	-12.6%	#N/A
Balanced	1.2%	-3.7%	-1.2%	1.7%	-1.2%	-1.0%	-3.5%	4.0%	-1.7%	-6.1%	0.9%	4.1%	-1.4%	-2.7%	-6.8%	#N/A	#N/A	#N/A	#N/A	#N/A	10.4%	-7.9%	24.4%	10.7%	#N/A	-14.1%	#N/A
Growth	1.5%	-4.8%	-1.5%	2.7%	-1.6%	-1.3%	-4.3%	5.1%	-1.3%	-6.9%	1.3%	4.8%	-1.2%	-1.9%	-6.8%	#N/A	#N/A	#N/A	#N/A	#N/A	14.1%	-8.2%	31.8%	13.0%	#N/A	-15.7%	#N/A
Equity	1.6%	-5.0%	-1.6%	2.9%	-1.7%	-1.3%	-4.4%	5.1%	-1.0%	-7.1%	1.0%	5.3%	-1.2%	-1.8%	-6.8%	#N/A	#N/A	#N/A	#N/A	#N/A	16.3%	-8.3%	36.8%	13.4%	#N/A	-16.2%	#N/A

Source: Copia Capital Management

Notes: Returns based on Total return, assuming income is re-invested immediately and rebalanced on due dates.

Select Decumulation  
Previously known as 'Retirement Income'

	%mm Performance												Return Characteristics										Risk Characteristics				
	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	3M	6M	12M	36M	2017	2018	2019	2020	2021	YTD	Since Inception (28 Feb 17)	Annualised Volatility 1Y	Annualised Volatility 3Y	Maximum Return Drawdown* 1Y	Maximum Return Drawdown* 3Y
RP1/3-10Y	0.2%	-1.2%	-0.4%	0.2%	-0.5%	-0.2%	-1.0%	1.4%	-1.2%	-2.3%	1.3%	1.3%	0.3%	-0.5%	-2.6%	0.3%	#N/A	-0.9%	6.0%	0.5%	2.1%	-2.7%	5.8%	4.0%	3.2%	-5.8%	-5.8%
RP1/11-15Y	0.2%	-2.1%	-0.7%	0.2%	-0.8%	-0.4%	-1.7%	2.2%	-2.0%	-3.7%	2.0%	1.9%	0.1%	-1.5%	-5.0%	-1.6%	#N/A	-1.9%	8.5%	-0.1%	3.1%	-5.2%	5.5%	6.3%	5.3%	-9.6%	-9.9%
RP1/16-20Y	0.4%	-2.6%	-0.8%	0.6%	-1.0%	-0.6%	-2.0%	2.5%	-1.9%	-3.9%	1.9%	2.1%	0.1%	-1.3%	-5.3%	-1.6%	#N/A	-1.9%	9.9%	-0.2%	3.6%	-5.7%	7.6%	6.9%	6.3%	-10.4%	-12.6%
RP1/20-25Y+	0.6%	-3.0%	-1.1%	0.7%	-1.2%	-0.6%	-2.3%	2.8%	-1.8%	-4.1%	1.8%	2.5%	0.0%	-1.3%	-5.8%	-0.9%	#N/A	-2.0%	11.0%	0.4%	4.6%	-6.4%	10.0%	7.6%	7.3%	-11.5%	-15.1%
RP2/3-10Y	0.5%	-2.0%	-0.7%	0.6%	-0.8%	-0.5%	-1.6%	2.1%	-1.2%	-2.8%	1.4%	1.7%	0.2%	-0.5%	-3.4%	0.5%	#N/A	-2.4%	7.8%	-1.3%	4.8%	-3.8%	6.6%	5.4%	5.4%	-7.6%	-10.3%
RP2/11-15Y	0.6%	-2.7%	-1.0%	0.6%	-1.0%	-0.6%	-2.2%	2.8%	-2.0%	-4.2%	1.9%	2.5%	0.1%	-1.4%	-5.4%	-2.7%	#N/A	-3.3%	10.8%	-2.8%	5.0%	-6.0%	5.6%	7.5%	7.7%	-11.1%	-15.6%
RP2/16-20Y	0.7%	-3.2%	-1.2%	0.9%	-1.2%	-0.8%	-2.5%	3.2%	-1.8%	-4.3%	1.8%	2.6%	0.0%	-1.1%	-5.8%	-1.7%	#N/A	-3.1%	12.3%	-2.4%	6.4%	-6.5%	8.9%	8.1%	8.5%	-11.9%	-17.1%
RP2/20-25Y+	0.7%	-3.6%	-1.3%	1.3%	-1.5%	-1.0%	-2.8%	3.6%	-1.5%	-4.4%	1.7%	2.7%	0.0%	-0.9%	-6.1%	-0.8%	#N/A	-3.0%	13.2%	-1.7%	6.9%	-6.8%	11.4%	8.7%	9.6%	-12.6%	-20.1%
RP3/3-10Y	0.7%	-2.8%	-1.1%	0.8%	-1.0%	-0.7%	-2.3%	2.6%	-1.3%	-3.5%	1.3%	2.6%	0.3%	-0.8%	-5.0%	-1.6%	#N/A	-3.6%	10.4%	-4.1%	7.0%	-5.6%	5.9%	6.9%	8.1%	-10.4%	-17.1%
RP3/11-15Y	1.0%	-3.6%	-1.5%	1.0%	-1.2%	-0.9%	-2.8%	3.3%	-1.6%	-4.2%	1.6%	3.0%	0.2%	-1.1%	-6.1%	-2.5%	#N/A	-4.1%	12.5%	-4.9%	8.2%	-7.1%	6.7%	8.6%	9.8%	-12.7%	-20.3%
RP3/16-20Y	1.0%	-3.9%	-1.6%	1.3%	-1.4%	-1.0%	-3.1%	3.5%	-1.5%	-4.3%	1.5%	3.2%	0.1%	-1.0%	-6.5%	-1.8%	#N/A	-4.0%	14.4%	-4.4%	9.0%	-7.4%	10.1%	9.1%	10.7%	-13.4%	-22.3%
RP3/20-25Y+	0.9%	-4.1%	-1.7%	1.4%	-1.7%	-1.0%	-3.2%	3.6%	-1.4%	-4.4%	1.5%	3.2%	0.1%	-1.0%	-6.9%	-1.9%	#N/A	-3.9%	14.8%	-3.9%	8.8%	-7.8%	10.9%	9.4%	11.6%	-14.0%	-25.0%
RP4/3-10Y	1.3%	-4.1%	-1.8%	1.3%	-1.4%	-1.0%	-3.1%	3.6%	-1.4%	-4.3%	1.3%	3.4%	0.2%	-0.8%	-6.4%	-2.0%	#N/A	-4.9%	14.0%	-7.1%	11.5%	-7.6%	7.9%	9.3%	11.8%	-13.5%	-25.1%
RP4/11-15Y	1.4%	-4.6%	-2.1%	1.4%	-1.4%	-1.0%	-3.4%	3.6%	-1.2%	-4.5%	1.0%	3.8%	0.1%	-0.9%	-7.3%	-2.7%	#N/A	-4.9%	15.2%	-7.9%	12.6%	-8.6%	8.6%	9.9%	13.1%	-14.8%	-27.4%
RP4/16-20Y	1.4%	-4.7%	-2.2%	1.5%	-1.6%	-1.0%	-3.4%	3.6%	-0.9%	-4.7%	0.8%	4.0%	-0.1%	-0.9%	-7.5%	-1.9%	#N/A	-4.6%	15.2%	-6.8%	12.6%	-8.8%	10.1%	10.1%	12.9%	-15.2%	-27.2%
RP4/20-25Y+	1.1%	-4.6%	-2.1%	1.6%	-1.8%	-1.0%	-3.5%	3.6%	-0.8%	-4.7%	0.7%	4.0%	-0.1%	-0.9%	-7.5%	-3.0%	#N/A	-4.5%	15.4%	-6.6%	10.6%	-8.5%	8.9%	10.0%	13.0%	-15.1%	-27.6%
RP5/3-10Y	1.8%	-5.7%	-2.3%	2.8%	-2.4%	-1.7%	-4.0%	4.8%	-0.1%	-4.5%	0.7%	3.8%	-0.2%	0.4%	-7.1%	1.9%	#N/A	-4.2%	16.1%	-6.7%	16.8%	-8.7%	16.4%	11.8%	14.0%	-15.8%	-28.1%
RP5/11-15Y	1.7%	-5.8%	-2.7%	2.0%	-2.0%	-1.2%	-3.9%	4.0%	-0.3%	-5.0%	0.1%	4.9%	-0.2%	-0.6%	-8.5%	-0.5%	#N/A	-3.7%	15.2%	-7.7%	16.5%	-10.0%	12.8%	11.7%	14.3%	-17.0%	-28.4%
RP5/16-20Y	1.7%	-5.6%	-2.7%	1.9%	-1.9%	-1.2%	-3.8%	4.0%	-0.4%	-5.0%	0.1%	4.9%	-0.3%	-0.7%	-8.4%	-0.8%	#N/A	-4.0%	14.8%	-7.8%	16.0%	-9.9%	11.6%	11.7%	14.3%	-17.0%	-28.5%
RP5/20-25Y+	1.4%	-5.4%	-2.6%	1.7%	-1.8%	-1.1%	-3.8%	3.7%	-0.3%	-5.1%	-0.1%	5.1%	-0.3%	-0.9%	-8.6%	-2.1%	#N/A	-4.6%	15.1%	-8.3%	14.7%	-9.9%	9.5%	11.4%	14.3%	-17.0%	-28.9%

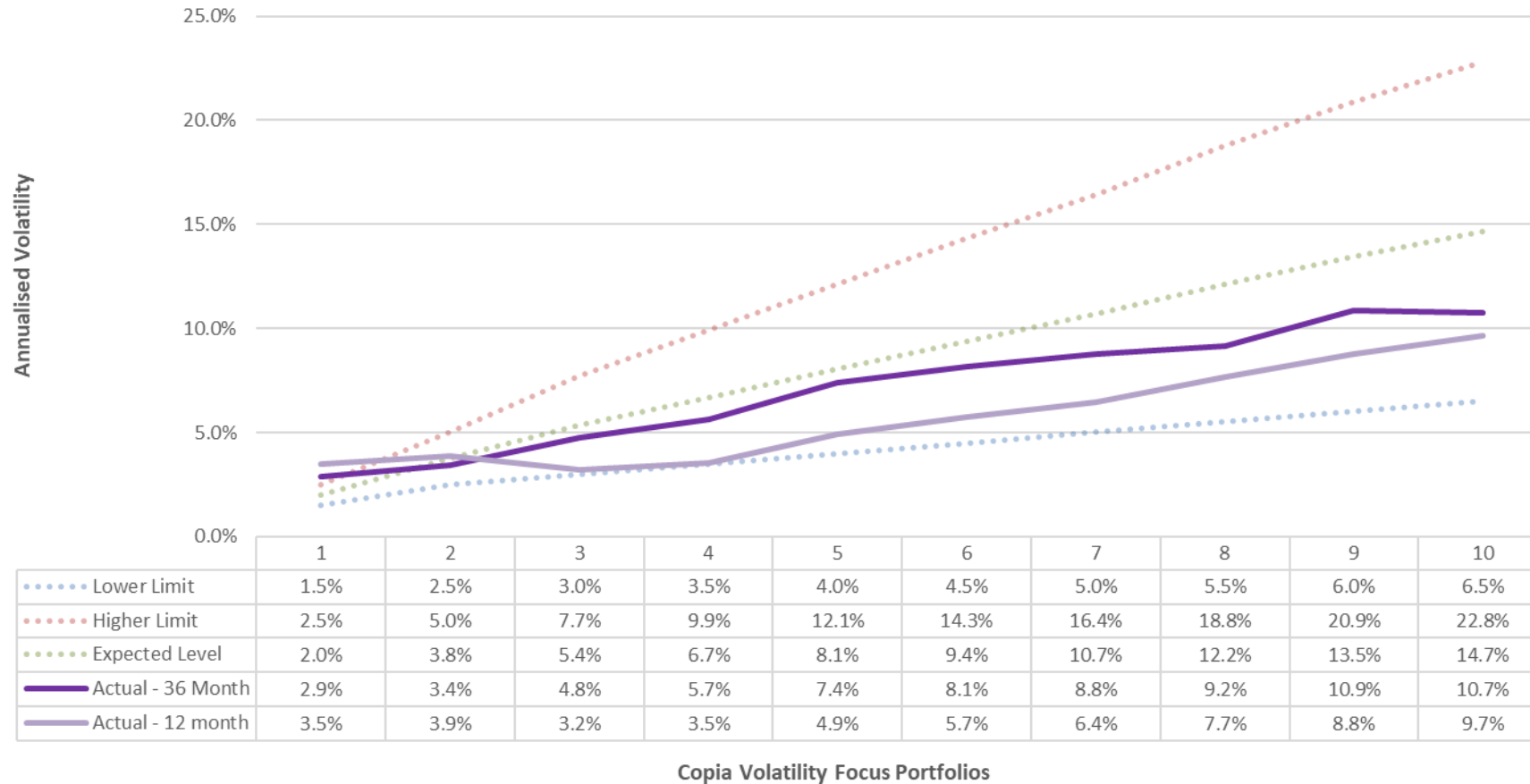
Source: Copia Capital Management

Notes: Returns based on Total return, assuming income is re-invested immediately and rebalanced on due dates.

**Market Performance**  
**Risk Barometer**  
**Portfolio Realignments**  
**Portfolio Performance**  
**Outcome Charts**

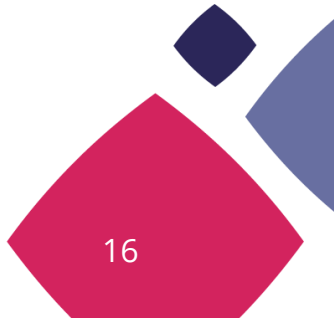


Outcome analysis as of 30 November 2022



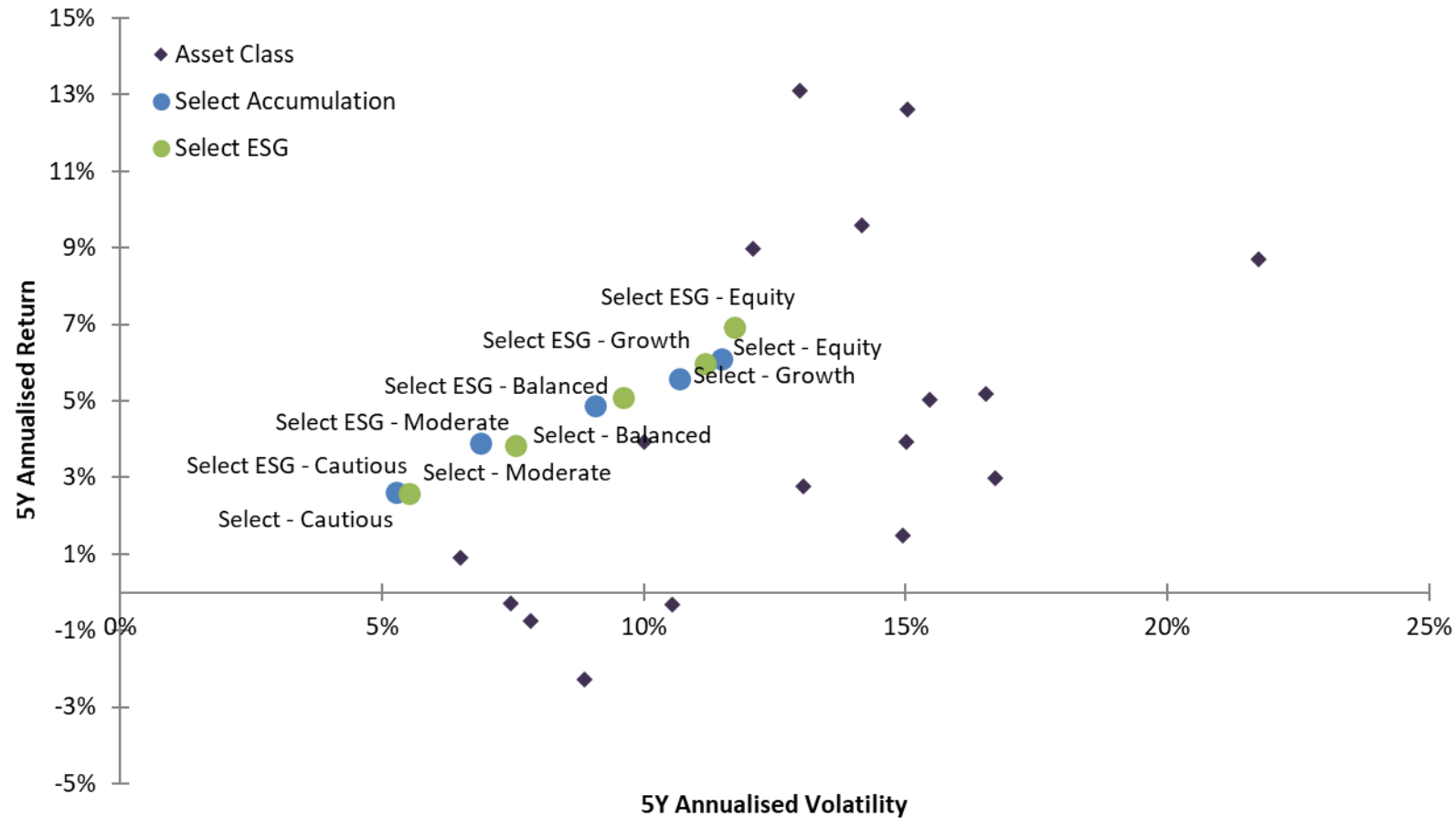
Our 'Select Volatility' portfolio was previously known as 'Volatility Focus'.

*For illustration only.  
Returns based on Total return, assuming income is re-invested immediately and rebalanced on due dates.*





Outcome (risk-return) analysis as of 30 November 2022

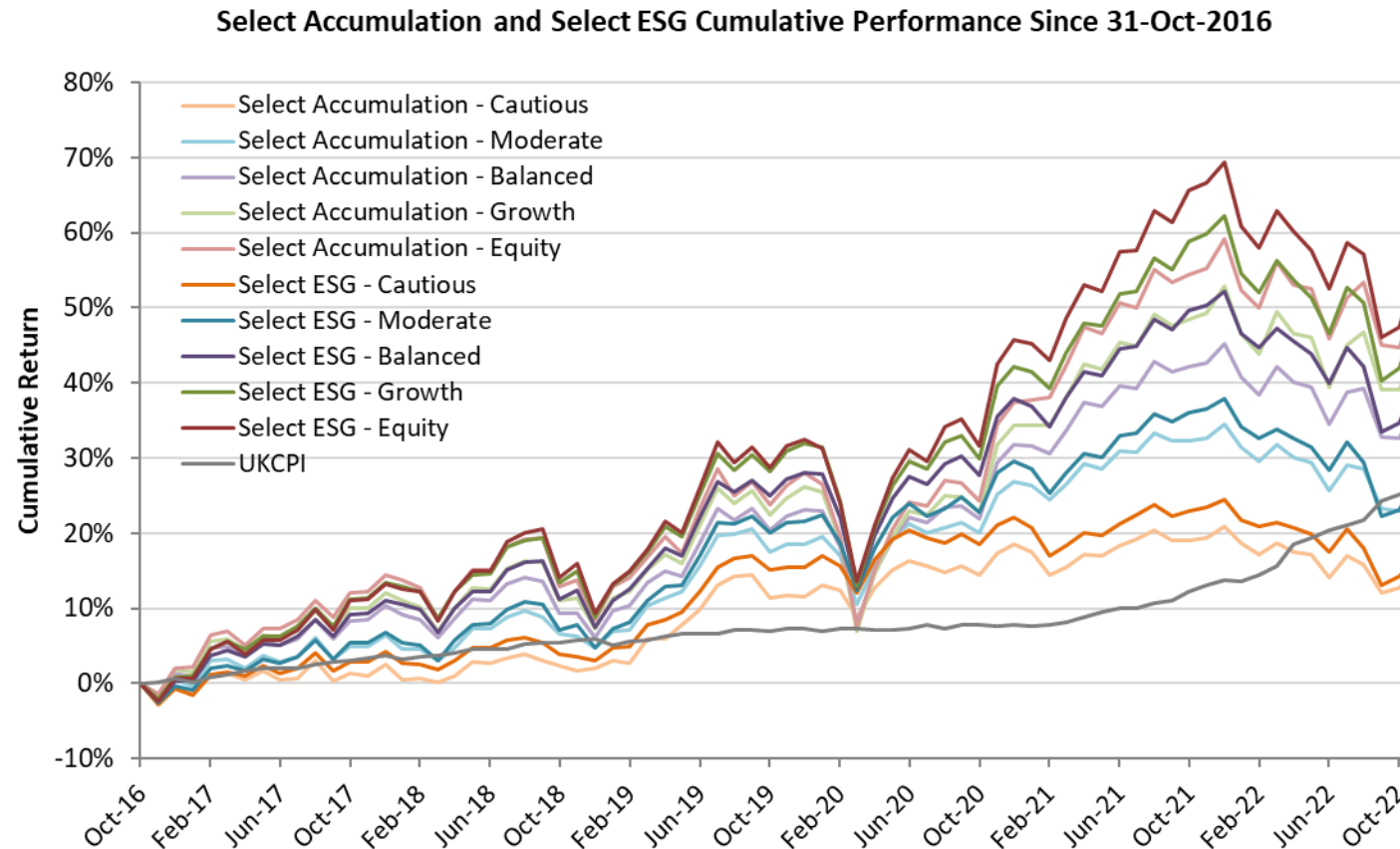


Our 'Select Accumulation' portfolio was previously known as 'Select'.

*For illustration only.  
Returns based on Total return, assuming income is re-invested immediately and rebalanced on due dates.  
The annualised risk and return figures are calculated based on a historic 5 year period as of 30-Nov-2022.  
The performance figures for Select ESG portfolios include simulated data before the inception date of the Select ESG portfolios (31-Mar-2020).*



Outcome (cumulative return) analysis as of 30 November 2022



Our 'Select Accumulation' portfolio was previously known as 'Select'.

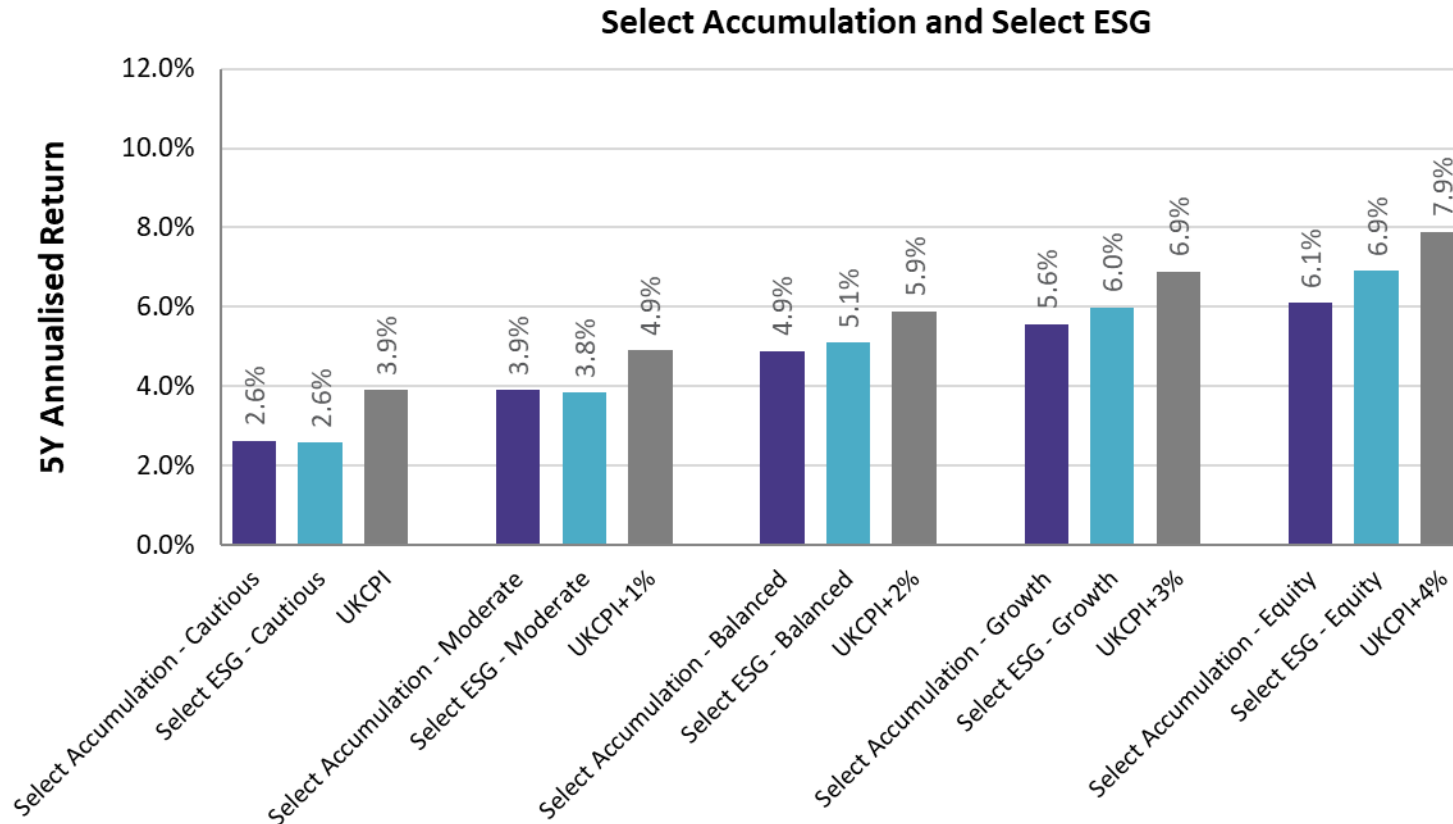
*For illustration only.*

*Returns based on Total return, assuming income is re-invested immediately and rebalanced on due dates.*

*Available CPI data has been used as a comparator for real returns. CPI data for Nov 2022 is currently unavailable and not shown.*

**The cumulative returns are calculated based on the period from the inception date of the Select Accumulation portfolios (31-Oct-2016). The performance figures for Select ESG portfolios include simulated data before the inception date of the Select ESG portfolios (31-Mar-2020).**

Outcome (annualised return) analysis as of 30 November 2022



Our 'Select Accumulation' portfolio was previously known as 'Select'.

*For illustration only.*

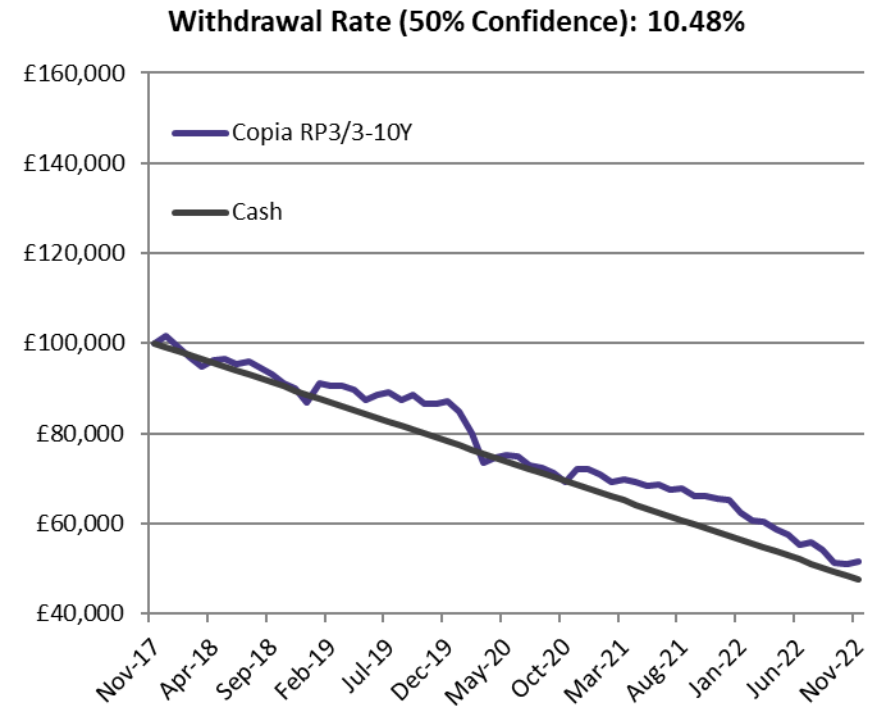
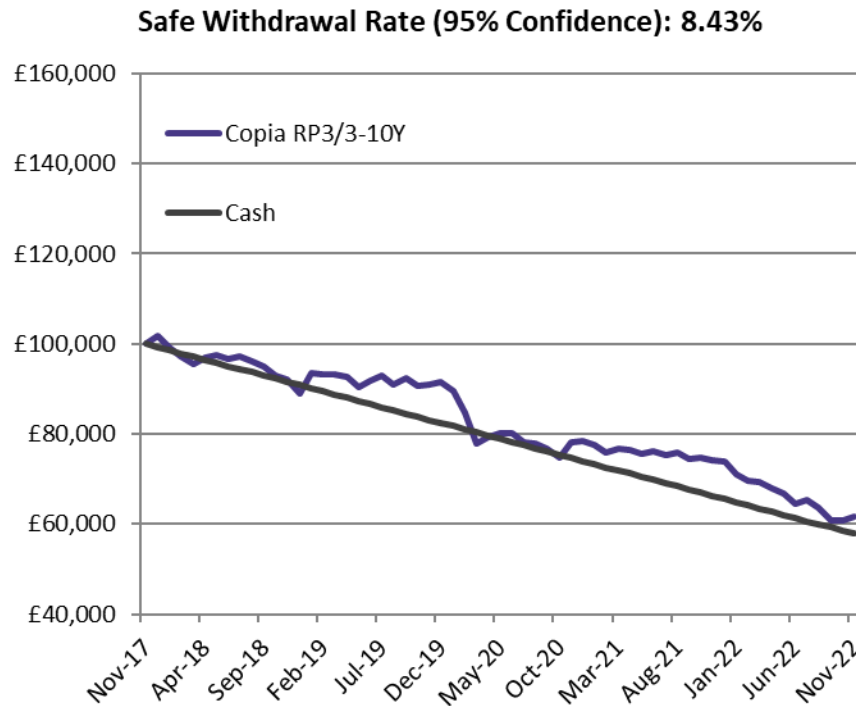
*Returns based on Total return, assuming income is re-invested immediately and rebalanced on due dates.*

*Available CPI data has been used as a comparator for real returns. CPI data for Nov 2022 is currently unavailable and not shown.*

**The annualised returns are calculated based on a historic 5 year period as of 30-Nov-2022.**

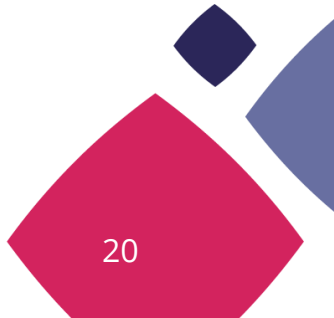
**The performance figures for Select ESG portfolios include simulated data before the inception date of the Select ESG portfolios (31-Mar-2020).**

Outcome analysis as of 30 November 2022

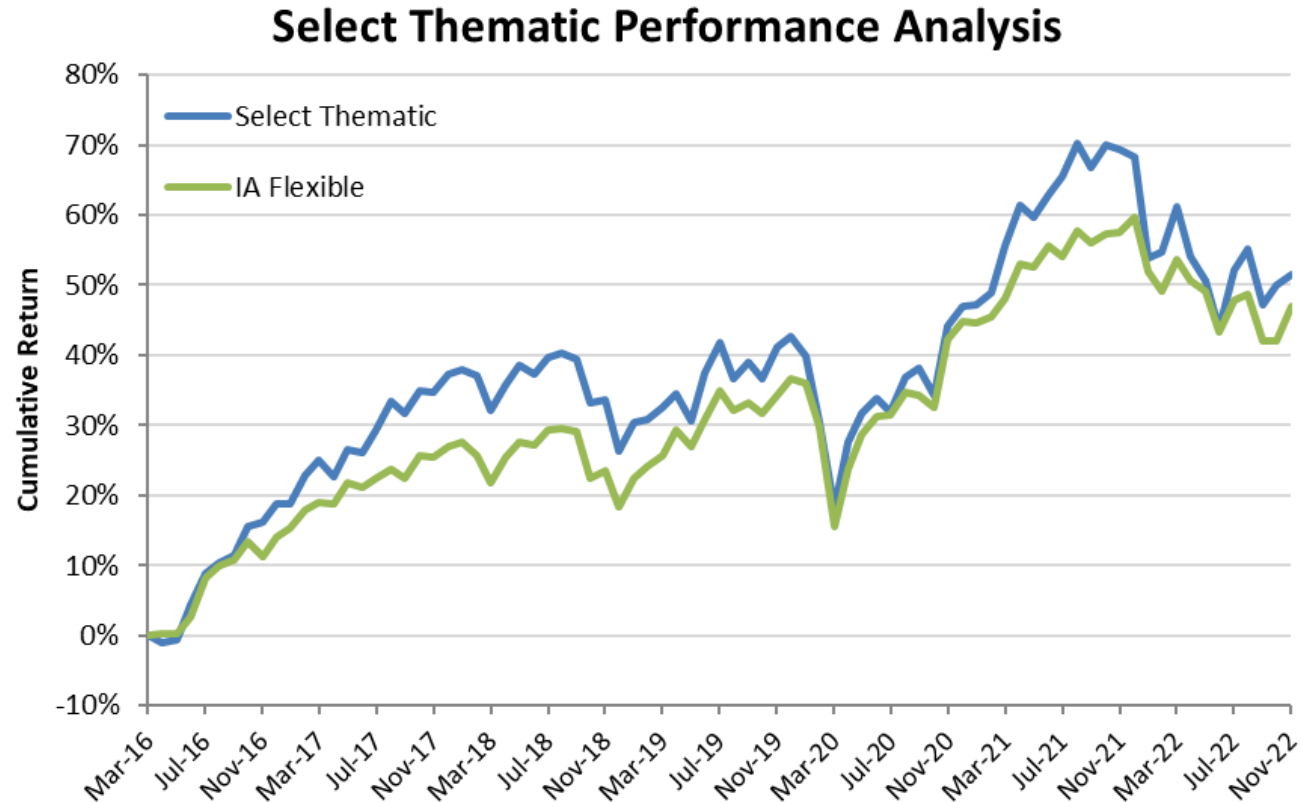


Our 'Select Decumulation' portfolio was previously known as 'Retirement Income'.

*For illustration only.  
Returns based on Total return, assuming income is re-invested immediately and rebalanced on due dates.  
Performance includes simulated performance for data prior to launch date (28-Feb-2017). Actual data is used from 1-Mar-2017 to Present.*



Outcome analysis as of 30 November 2022



Our 'Select Thematic' portfolio was previously known as 'Copia Enhanced Equity'.

*For illustration only.*

*Returns based on Total return, assuming income is re-invested immediately and rebalanced on due dates.*



### Understanding the risks

- Investment model portfolios may not be suitable for everyone
- The value of funds can increase and decrease, past performance and historical data cannot guarantee future success
  - Investors may get back less than they originally invested

### Disclaimer

Some figures and numbers in this document are based on Copia's simulation data. Figures relating to simulated performance is not a reliable indicator of the future. Models are prepared in accordance with tolerance to risk and not client circumstances and information is from given sources and taken to be reliable and accurate, which Copia cannot warrant for accuracy or completeness.

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