EUROPEAN EQUITIES FACTOR ASSESMENT FRAMEWORK MONTHLY UPDATE

March 2024





FACTOR SPOTLIGHT

Monthly Performances (through March 2024)

Europe	World	USA
Momentum +6.4%	Value +5.1%	Value +5.9%
Value +4.7%	Momentum +4.3%	High Div.Yld +4.3%
Small Caps +4.3%	High Div.Yld +4.1%	Small Caps +3.8%
High Div.Yld +4.0%	Small Caps +3.9%	Momentum +3.4%
MSCI Europe +3.9%	MSCI World +3.2%	MSCI USA +3.1%
Min Vol +3.1%	Quality +2.9%	Min Vol +3.1%
Quality +2.5%	Min Vol +2.4%	Quality +2.6%

In March, Value was amongst the best performing factor across all regions. Quality and Minimum Volatility lagged all other factors across all regions.

Valuations

Minimum Vol. The relative valuations of minimum volatility factor declined in World markets and was flat in US and European markets.

Momentum The relative valuations for the momentum factor increased across all regions.

Value For a long time, valuation of the Value factor has been trading at a deep discount with respect to the market.

Quality The relative valuations for the Quality factor increased for the World markets and declined for US and European markets.

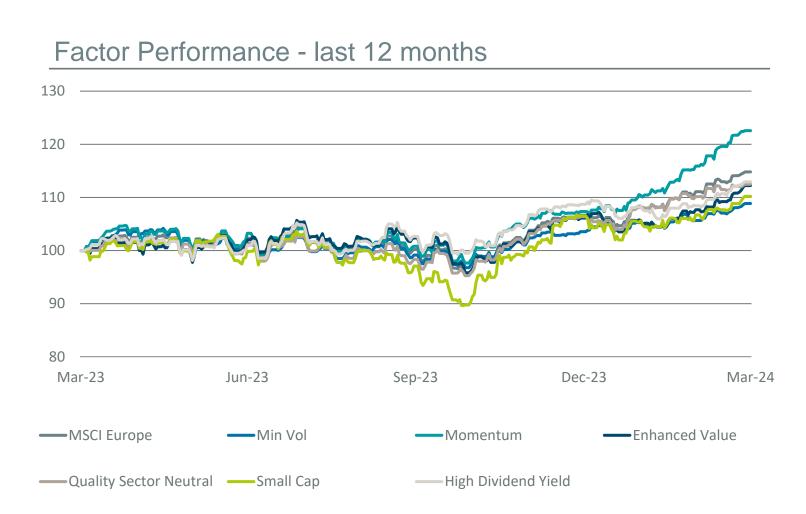
Small Caps The relative valuations of Small Cap factor declined for European markets and increased for US and World markets.

High Div. Yield Similar to Value factor, valuations have been trading at a deep discount to the benchmark for a long time.

Factor Assesment Framework - MSCI Europe factor indices -----------

Introduction

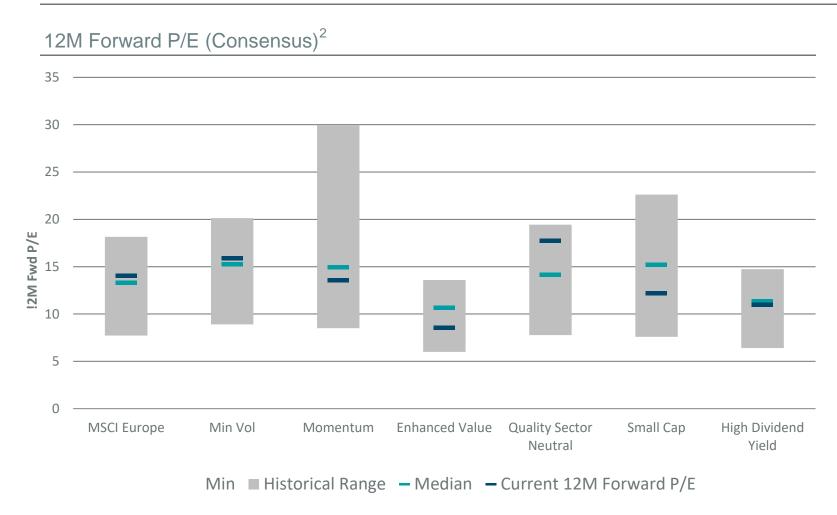
The MSCI Europe factor indices are based on the MSCI Europe, their parent index, which includes large and mid cap stocks across European Developed Markets (DM) countries. This "Factor Assessment Framework" aims to provide detailed information on a wide range of inputs which are deemed to impact equity factors' performance. The information is split into multiple categories: macro-economic indicators, flows, valuations and momentum indicators.

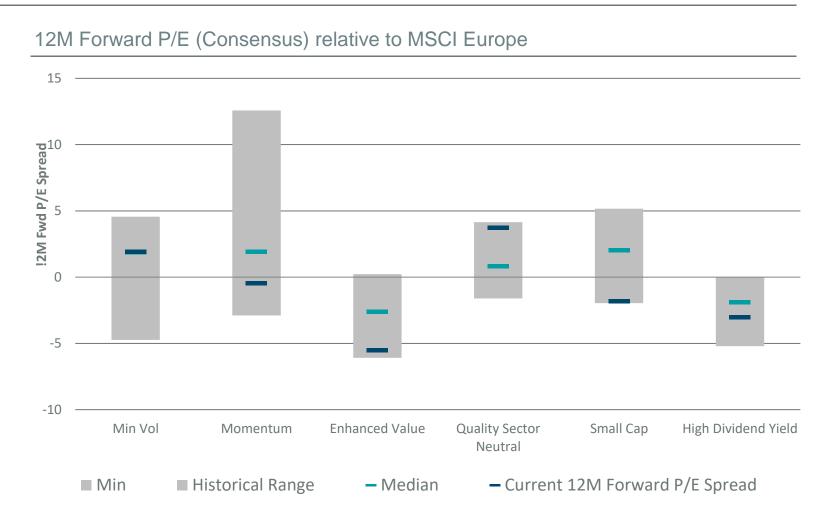


Returns (in EUR)				
	1M	6M	1Y	5Y
Min Vol	3.1%	9.8%	8.8%	5.4%
Momentum	6.4%	21.6%	22.6%	11.1%
Enhanced Value	4.7%	9.6%	12.2%	7.8%
Quality Sector Neutral	2.5%	14.4%	12.5%	9.6%
Small Cap	4.3%	13.5%	10.2%	6.1%
High Dividend Yield	4.0%	10.0%	12.9%	7.5%
MSCI Europe	3.9%	14.6%	14.8%	8.8%

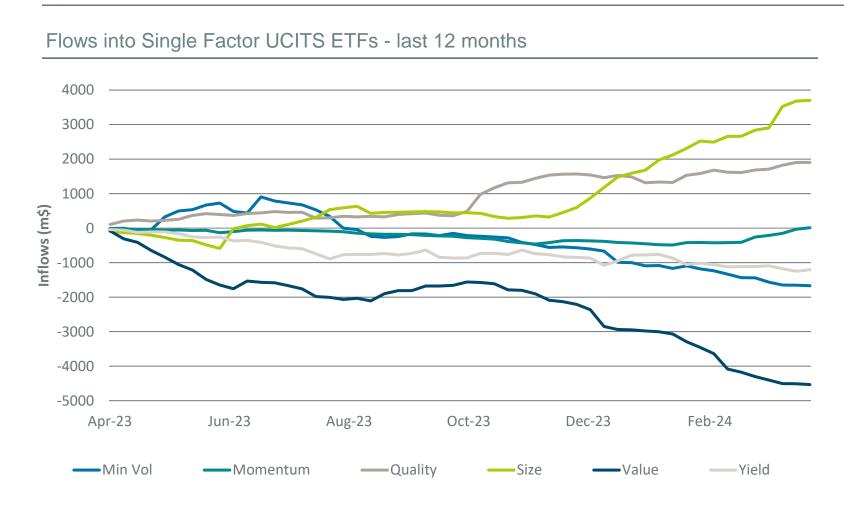
	Risk'			
	5Y Volatility	6M Sharpe Ratio	Max. DD	Beta
	14.1%	2.9	-30.6%	76%
	17.7%	5.7	-30.9%	91%
	20.2%	2.0	-40.0%	110%
,	17.0%	3.4	-33.3%	94%
,	19.3%	2.2	-41.4%	102%
·	17.5%	2.4	-38.2%	94%
,	17.5%	3.6	-35.3%	

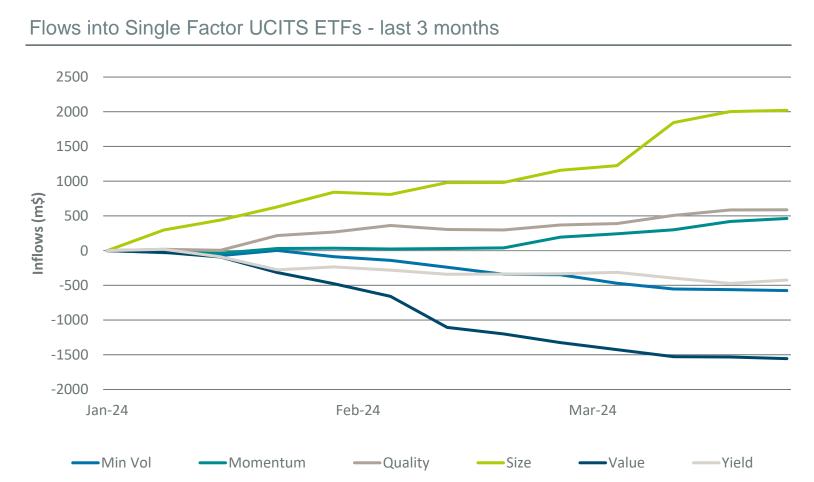
Valuations





Cumulative Flows³





11 Month Momentum⁴

20% —

15.23%

15.23%

10.44%

9.75%

8.54%

7.14%

5.62%

5.58%

Momentum

MSCI Europe

Quality Sector Neutral

High Dividend Yield

Enhanced Value

Small Cap

Min Vol

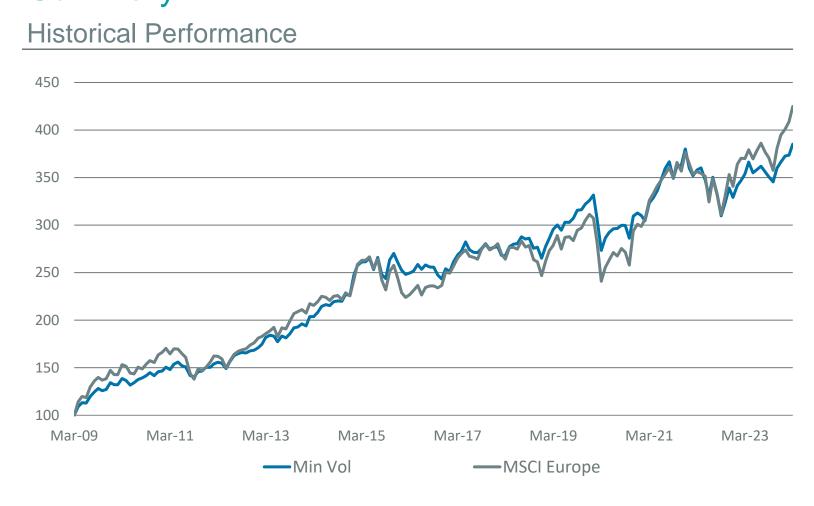
- 1. Risk measures (Volatility, Drawdown, Beta) are calculated over the last five years period using daily frequency observations.
- 12 month estimated forward PE. Source MSCI, Bloomberg LLC. Data from June 2003 (from July 2005 for Small Cap).
 Source: Morningstar, DWS Calculations. Weekly data for the last 12 months.
- 4. 11M Momentum is defined as the 11M performance of the index calculated as of 1 month ago (often referred in the literature as "1M removed").

MSCI Europe Min Vol

Introduction

The MSCI Europe Minimum Volatility (EUR) Index aims to reflect the performance characteristics of a minimum variance strategy applied to the large and mid cap equity universe across the European Developed Markets (DM) countries. The index is calculated by optimizing the MSCI Europe Index, its parent index, in EUR for the lowest absolute risk (within a given set of constraints).

Summary

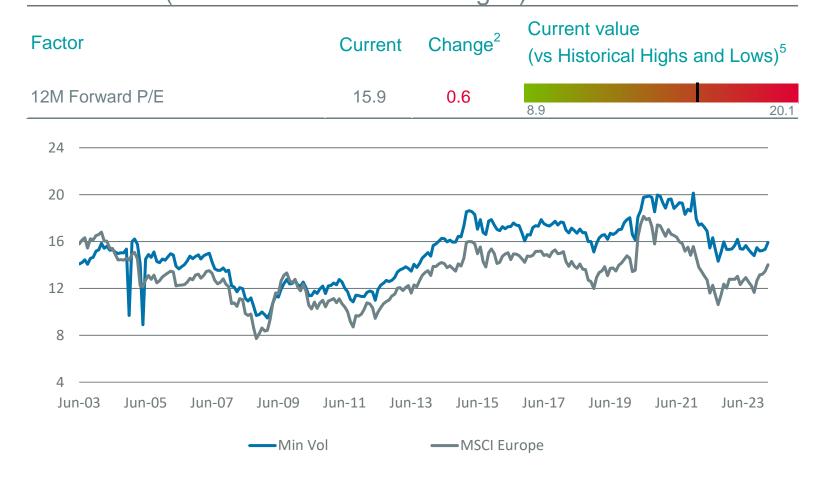


Risk and Return

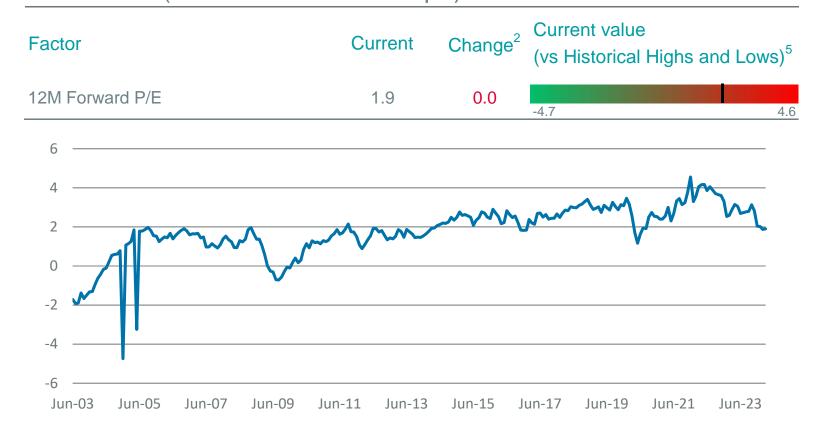
Return	Min Vol	MSCI Europe
Last 1M	3.1%	3.9%
Last 6M	9.8%	14.6%
Last 1Y	8.8%	14.8%
Last 5Y	5.4%	8.8%

Risk ¹	Min Vol	MSCI Europe
5Y Vol.	14.1%	17.5%
6M Sharpe Ratio	2.9	3.6
Max DD	-30.6%	-35.3%
Beta	76%	-
Tracking Error	6.5%	-

Valuations (relative to historical averages)²

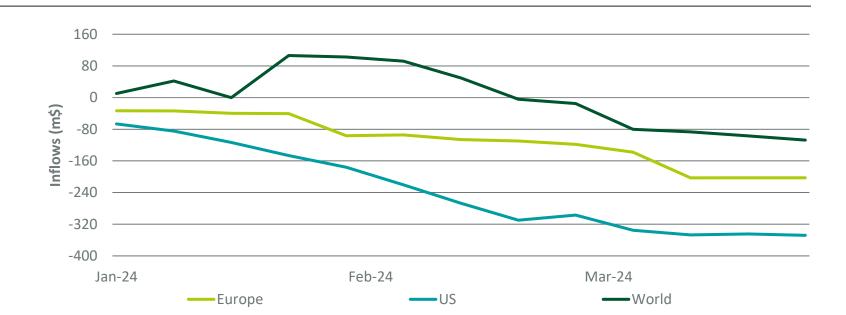


Valuations (relative to MSCI Europe)²



Cumulative Flows (UCITS ETFs)³

Factor	1M Flows	3M Flows	6M Flows	1Y Flows
Min Vol Europe	-84	-203	-376	-381
Min Vol US	-51	-348	-490	-448
Min Vol World	-92	-107	-627	-791
Total	-228	-671	-1518	-1670



11 Month Momentum⁴

11 Month Performance (1M Removed)

Min Vol 5.6% MSCI Europe 10.4%

Risk Profile Analysis⁵



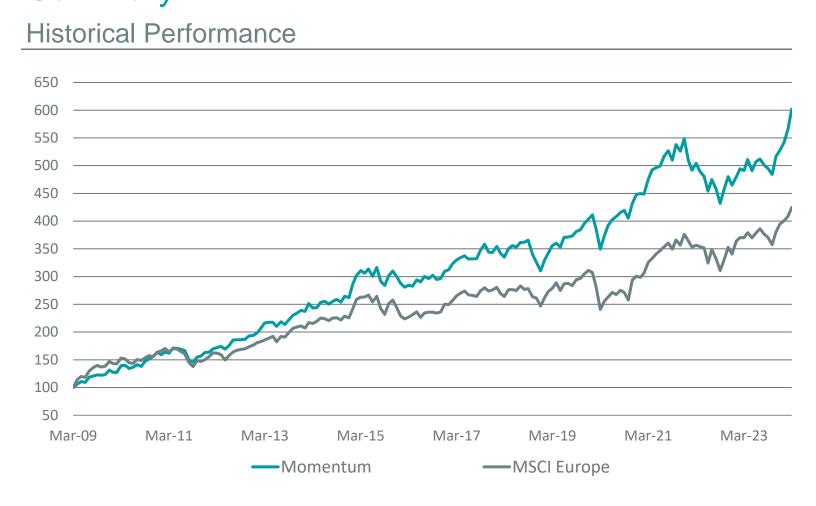
- 1. Risk measures (Volatility, Drawdown, Beta) are calculated over the last five years period using daily frequency observations.
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- 3. Source: Morningstar, DWS Calculations. Weekly data for the last 12 months.
- 4. 11M Momentum is defined as the 11M performance of the index calculated as of 1 month ago (often referred in the literature as "1M removed").
- 5. All calculations are done over the last 15 years.

MSCI Europe Momentum

Introduction

The MSCI Europe Momentum Index is based on MSCI Europe, its parent index, which includes large and mid cap stocks across European Developed Markets (DM) countries. It is designed to reflect the performance of an equity momentum strategy by emphasizing stocks with high price momentum, while maintaining reasonably high trading liquidity, investment capacity and moderate index turnover.

Summary

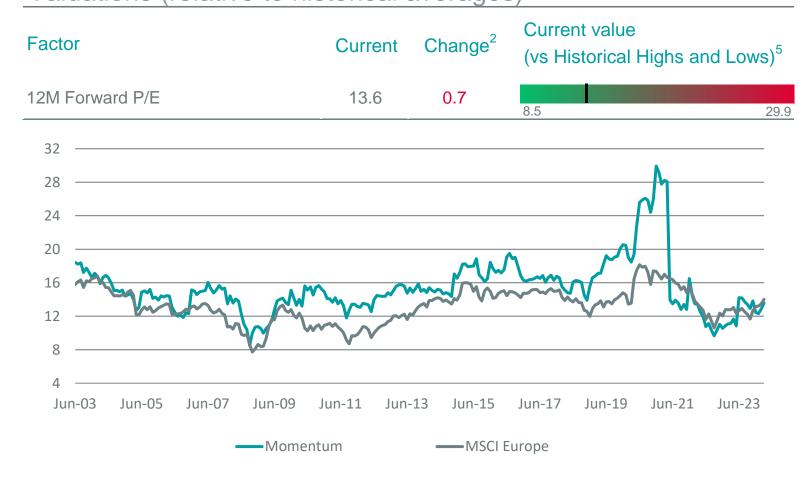


Risk and Return

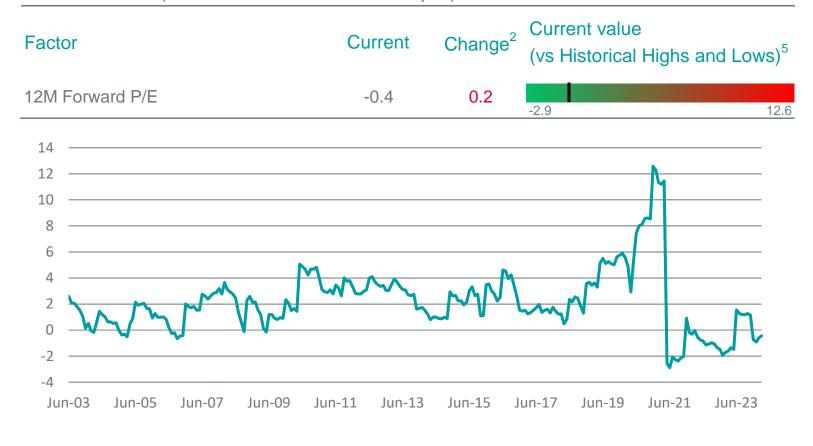
Return	Momentum	MSCI Europe
Last 1M	6.4%	3.9%
Last 6M	21.6%	14.6%
Last 1Y	22.6%	14.8%
Last 5Y	11.1%	8.8%

Risk ¹	Momentum	MSCI Europe
5Y Vol.	17.7%	17.5%
6M Sharpe Ratio	5.7	3.6
Max DD	-30.9%	-35.3%
Beta	91%	-
Tracking Error	7.7%	-

Valuations (relative to historical averages)²



Valuations (relative to MSCI Europe)²



Cumulative Flows (UCITS ETFs)³

Factor	1M Flows	3M Flows	6M Flows	1Y Flows
Momentum Europe	88	69	-71	-162
Momentum US	26	87	-27	3
Momentum World	153	287	345	170
Total	268	443	246	11

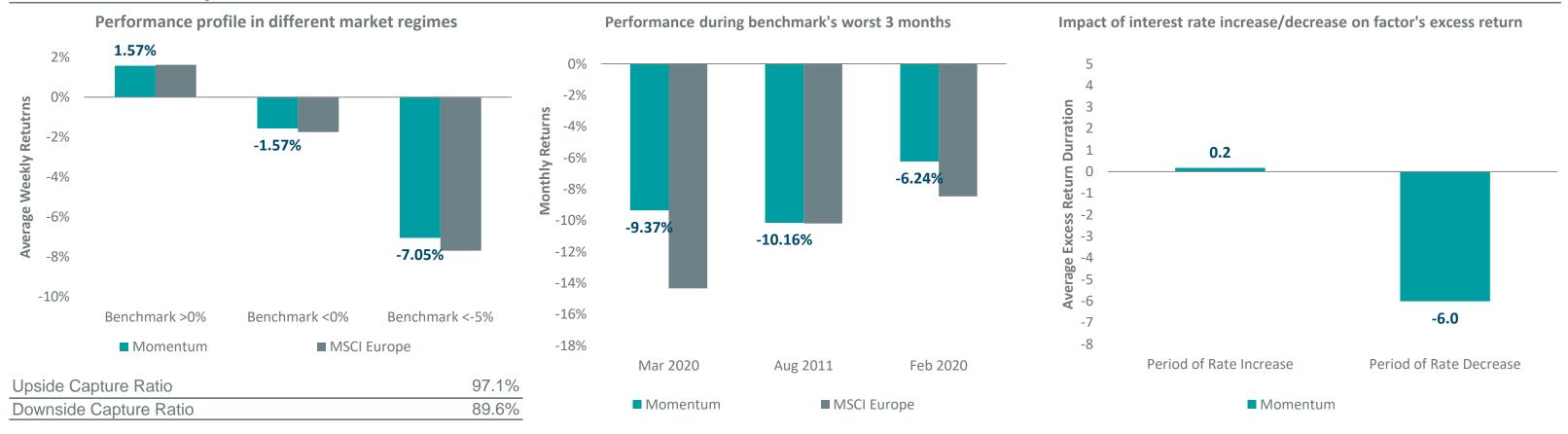


11 Month Momentum⁴

11 Month Performance (1M Removed)

Momentum	15.2%
MSCI Europe	10.4%

Risk Profile Analysis⁵



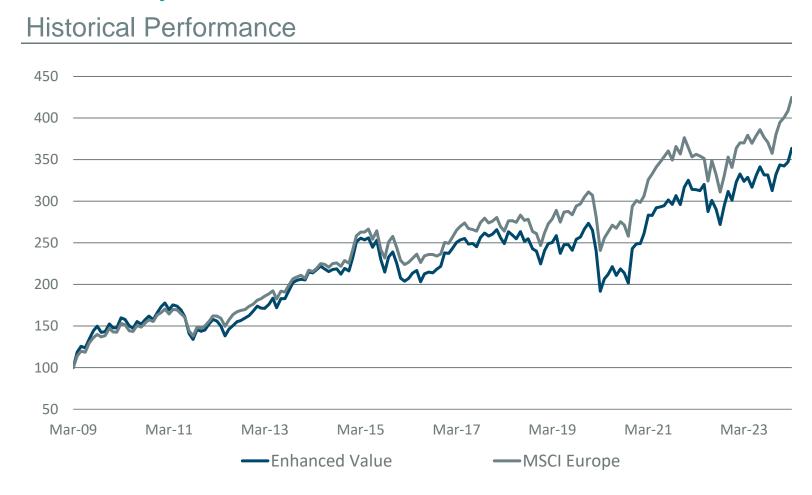
- 1. Risk measures (Volatility, Drawdown, Beta) are calculated over the last five years period using daily frequency observations.
- 2. 12 month estimated forward PE. Source MSCI, Bloomberg LLC. Data from June 2003 (from July 2005 for Small Cap).
- 3. Source: Morningstar, DWS Calculations. Weekly data for the last 12 months.
- 4. 11M Momentum is defined as the 11M performance of the index calculated as of 1 month ago (often referred in the literature as "1M removed").
- 5. All calculations are done over the last 15 years.

MSCI Europe Enhanced Value

Introduction

The MSCI Europe Enhanced Value Index captures large and mid-cap representation across European Developed Markets (DM) countries exhibiting overall value style characteristics. The index is designed to represent the performance of securities that exhibit higher value characteristics relative to their peers within the corresponding GICS® sector. The value investment style characteristics for index construction are defined using three variables: Price-to-Book Value, Price-to-Forward Earnings and Enterprise Value-to-Cash flow from Operations.

Summary

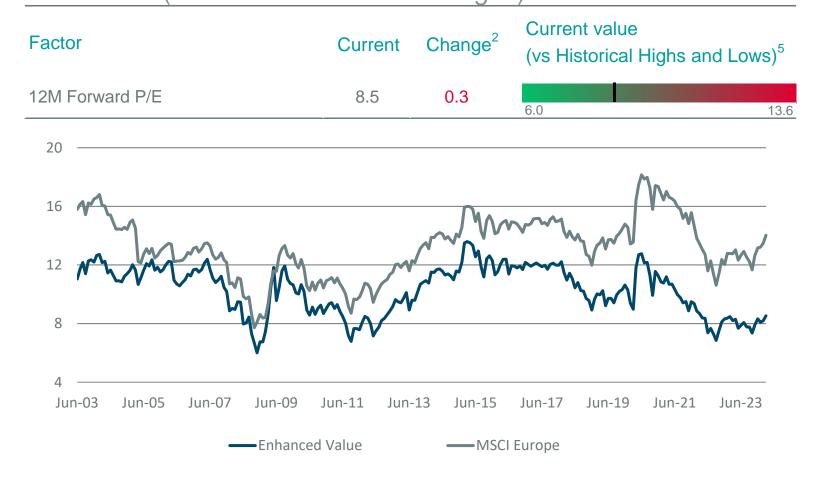


Risk and Return

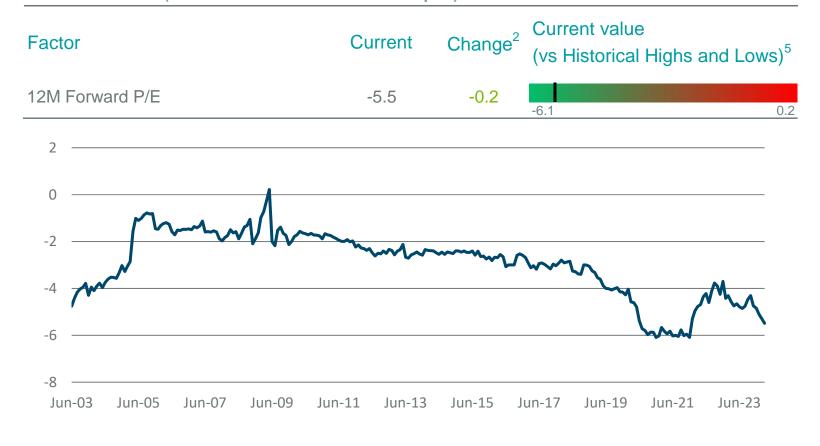
Return	Enhanced Value	MSCI Europe
Last 1M	4.7%	3.9%
Last 6M	9.6%	14.6%
Last 1Y	12.2%	14.8%
Last 5Y	7.8%	8.8%

Risk ¹	Enhanced Value	MSCI Europe
5Y Vol.	20.2%	17.5%
6M Sharpe Ratio	2.0	3.6
Max DD	-40.0%	-35.3%
Beta	110%	-
Tracking Error	6.2%	-

Valuations (relative to historical averages)²



Valuations (relative to MSCI Europe)²



Cumulative Flows (UCITS ETFs)³

Factor	1M Flows	3M Flows	6M Flows	1Y Flows
Value Europe	-168	-787	-1305	-2256
Value US	-2	-268	-970	-1324
Value World	-61	-532	-623	-970
Total	-231	-1587	-2877	-4533

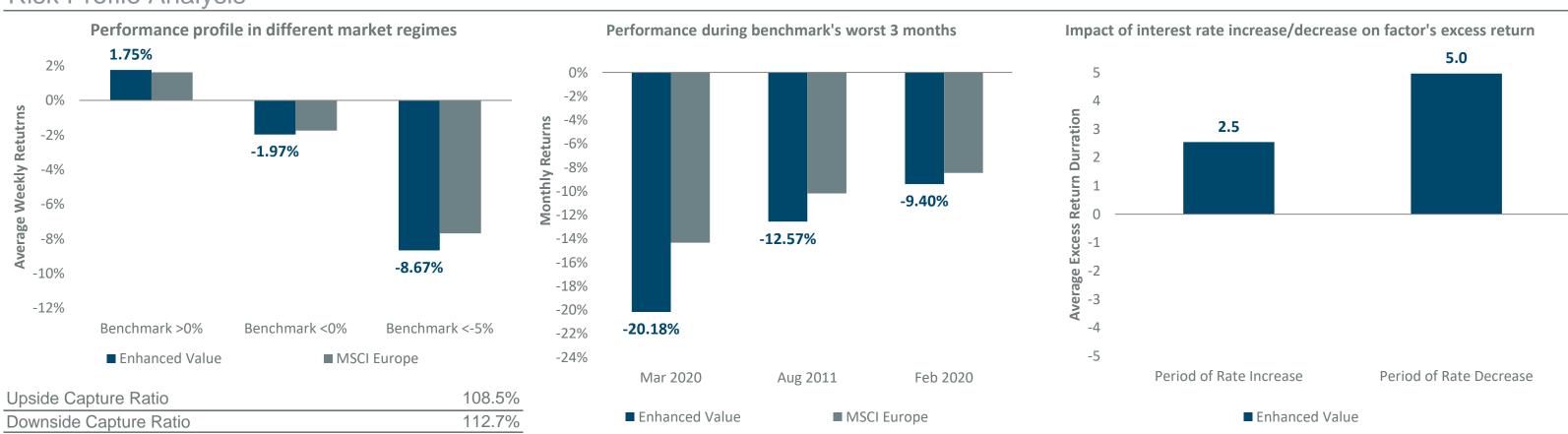


11 Month Momentum⁴

11 Month Performance (1M Removed)

Enhanced Value	7.1%
MSCI Europe	10.4%

Risk Profile Analysis⁵



- 1. Risk measures (Volatility, Drawdown, Beta) are calculated over the last five years period using daily frequency observations.
- 2. 12 month estimated forward PE. Source MSCI, Bloomberg LLC. Data from June 2003 (from July 2005 for Small Cap).
- 3. Source: Morningstar, DWS Calculations. Weekly data for the last 12 months.
- 4. 11M Momentum is defined as the 11M performance of the index calculated as of 1 month ago (often referred in the literature as "1M removed").
- 5. All calculations are done over the last 15 years.

MSCI Europe Quality Sector Neutral

Introduction

The MSCI Europe Sector Neutral Quality Index captures large and mid-cap representation across European Developed Markets (DM) countries. The index aims to capture the performance of securities that exhibit stronger quality characteristics relative to their peers within the same GICS® sector by identifying stocks with high quality scores based on three main fundamental variables: high Return-on-Equity (ROE), low leverage and low earnings variability.

Summary

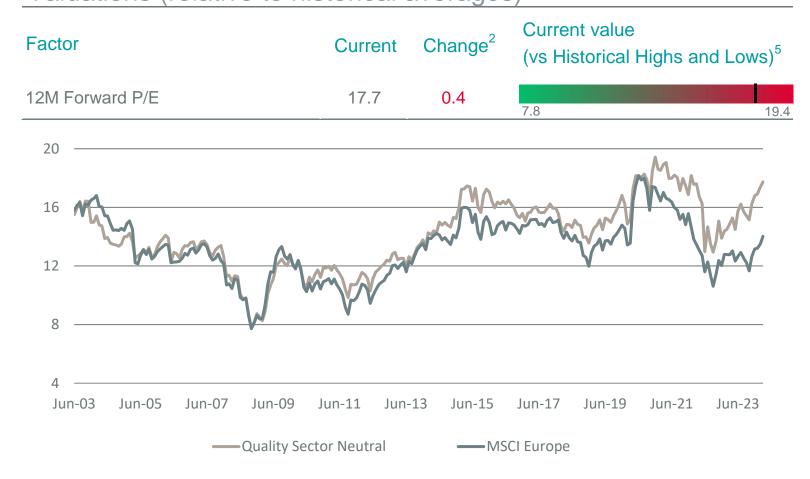


Risk and Return

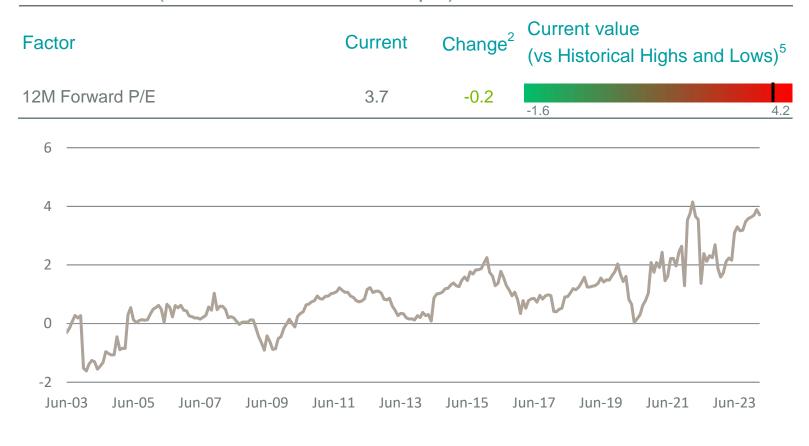
Return	Quality Sector Neutral	MSCI Europe	
Last 1M	2.5%	3.9%	
Last 6M	14.4%	14.6%	
Last 1Y	12.5%	14.8%	
Last 5Y	9.6%	8.8%	

Risk ¹	Quality Sector Neutral		MSCI Europe
5Y Vol.		17.0%	17.5%
6M Sharpe I	Ratio	3.4	3.6
Max DD		-33.3%	-35.3%
Beta		94%	-
Tracking Err	or	4.0%	-

Valuations (relative to historical averages)²

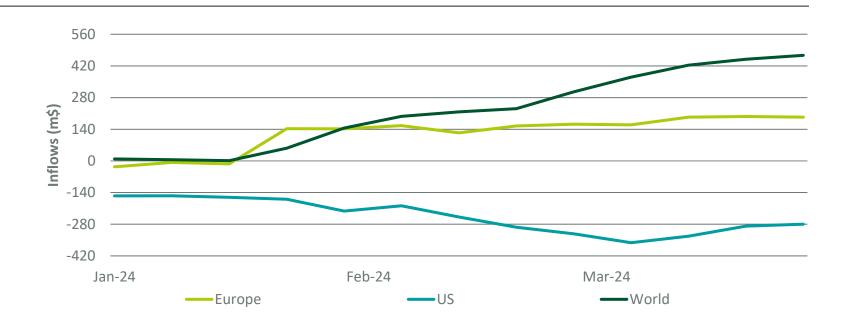


Valuations (relative to MSCI Europe)²



Cumulative Flows (UCITS ETFs)³

Factor	1M Flows	3M Flows	6M Flows	1Y Flows
Quality Europe	31	193	212	231
Quality US	43	-280	442	709
Quality World	162	467	751	776
Total	218	419	1547	1903

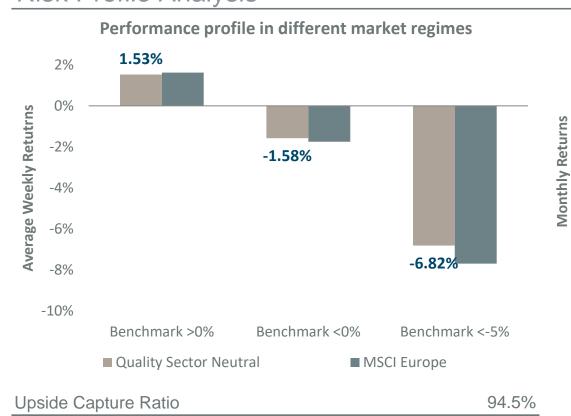


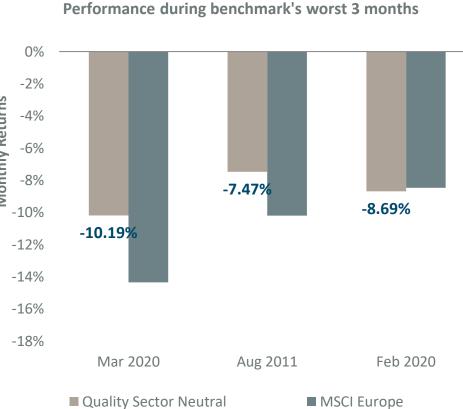
11 Month Momentum⁴

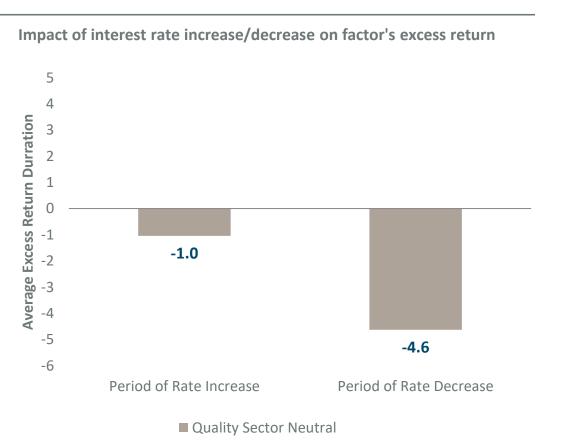
11 Month Performance (1M Removed)

Quality Sector Neutral	9.7%
MSCI Europe	10.4%

Risk Profile Analysis⁵







Source Bloomberg LP, MSCI, DWS Calculations. As of 31 Mar 2024. Past performance, actual or simulated, is not a reliable indicator of future results. Forecasts are based on assumptions, estimates, opinions and hypothetical models or analysis which may prove to be incorrect.

- 1. Risk measures (Volatility, Drawdown, Beta) are calculated over the last five years period using daily frequency observations.
- 2. 12 month estimated forward PE. Source MSCI, Bloomberg LLC. Data from June 2003 (from July 2005 for Small Cap).
- 3. Source: Morningstar, DWS Calculations. Weekly data for the last 12 months.
- 4. 11M Momentum is defined as the 11M performance of the index calculated as of 1 month ago (often referred in the literature as "1M removed").

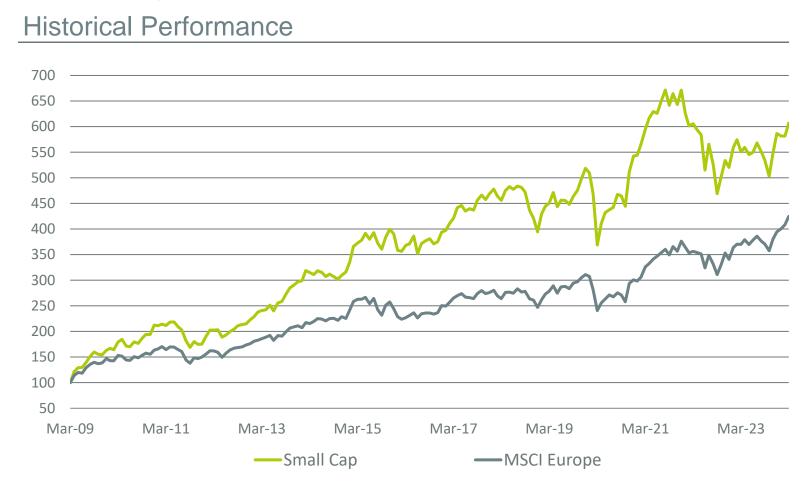
90.1%

5. All calculations are done over the last 15 years.

Downside Capture Ratio

The MSCI Europe Small Cap Index captures small cap representation across the European Developed Markets (DM) countries .

Summary



Risk and Return

Return	Small Cap	MSCI Europe
Last 1M	4.3%	3.9%
Last 6M	13.5%	14.6%
Last 1Y	10.2%	14.8%
Last 5Y	6.1%	8.8%

	Risk ¹	Small Cap	MSCI Europe
	5Y Vol.	19.3%	17.5%
	6M Sharpe Ratio	2.2	3.6
	Max DD	-41.4%	-35.3%
	Beta	102%	-
	Tracking Error	7.2%	-

Valuations (relative to historical averages)²

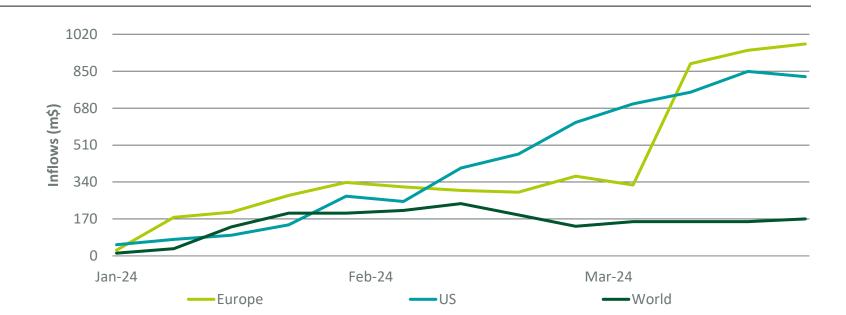


Valuations (relative to MSCI Europe)²



Cumulative Flows (UCITS ETFs)³

Factor	1M Flows	3M Flows	6M Flows	1Y Flows
Size Europe	609	975	1489	1173
Size US	211	825	1412	2098
Size World	34	171	213	297
Total	863	2111	3257	3701



11 Month Momentum⁴

11 Month Performance (1M Removed)

Small Cap5.6%MSCI Europe10.4%

Risk Profile Analysis⁵



- 1. Risk measures (Volatility, Drawdown, Beta) are calculated over the last five years period using daily frequency observations.
- 2. 12 month estimated forward PE. Source MSCI, Bloomberg LLC. Data from June 2003 (from July 2005 for Small Cap).
- 3. Source: Morningstar, DWS Calculations. Weekly data for the last 12 months.
- 4. 11M Momentum is defined as the 11M performance of the index calculated as of 1 month ago (often referred in the literature as "1M removed").
- 5. All calculations are done over the last 15 years.

MSCI Europe High Dividend Yield

Introduction

The MSCI Europe High Dividend Yield Index is based on the MSCI Europe Index, and includes large and mid cap stocks across European Markets countries. The index is designed to reflect the performance of equities in the parent index (ex REITs) with higher dividend income and quality characteristics than average. Starting in May 2013, the index also applies quality screens and reviews 12-month past performance to omit stocks with potentially deteriorating fundamentals that could force them to cut or reduce dividends.

Summary

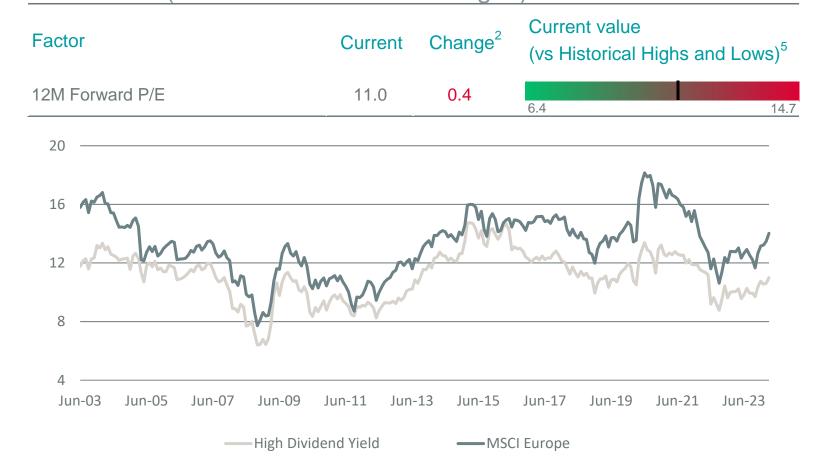


Risk and Return

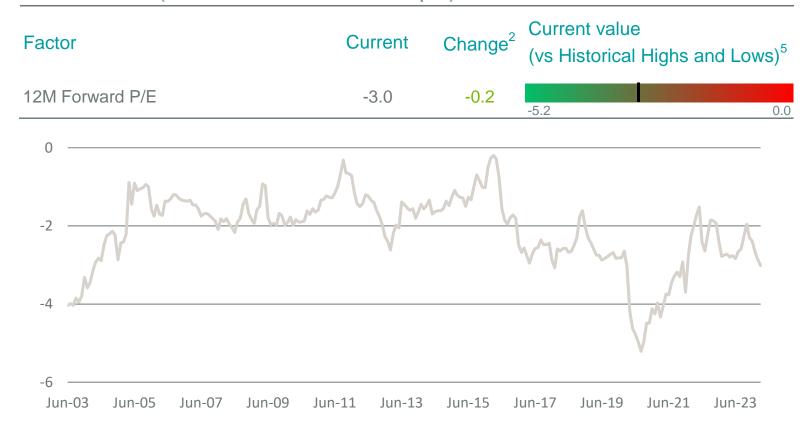
Return	High Dividend Yield	MSCI Europe
Last 1M	4.0%	3.9%
Last 6M	10.0%	14.6%
Last 1Y	12.9%	14.8%
Last 5Y	7.5%	8.8%

	Risk ¹	High Dividend Yield		MSCI Europe
	5Y Vol.		17.5%	17.5%
6M Sharpe Ra		Ratio	2.4	3.6
Max DD	Max DD		-38.2%	-35.3%
	Beta		94%	-
	Tracking Err	or	6.0%	-

Valuations (relative to historical averages)²

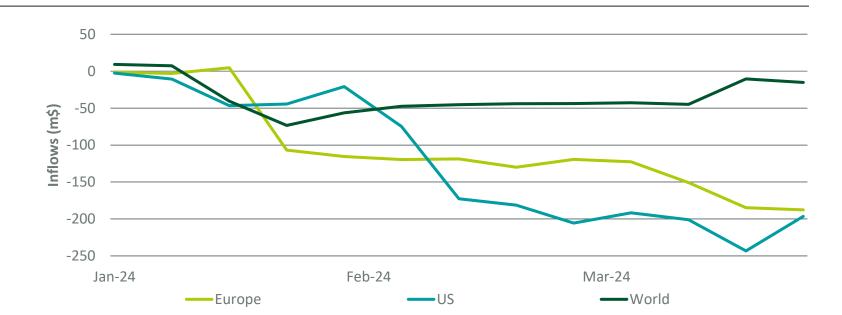


Valuations (relative to MSCI Europe)²



Cumulative Flows (UCITS ETFs)³

Factor	1M Flows	3M Flows	6M Flows	1Y Flows
Yield Europe	-68	-188	-366	-799
Yield US	9	-196	-69	-1035
Yield World	29	-15	215	601
Total	-90	-420	-336	-1202

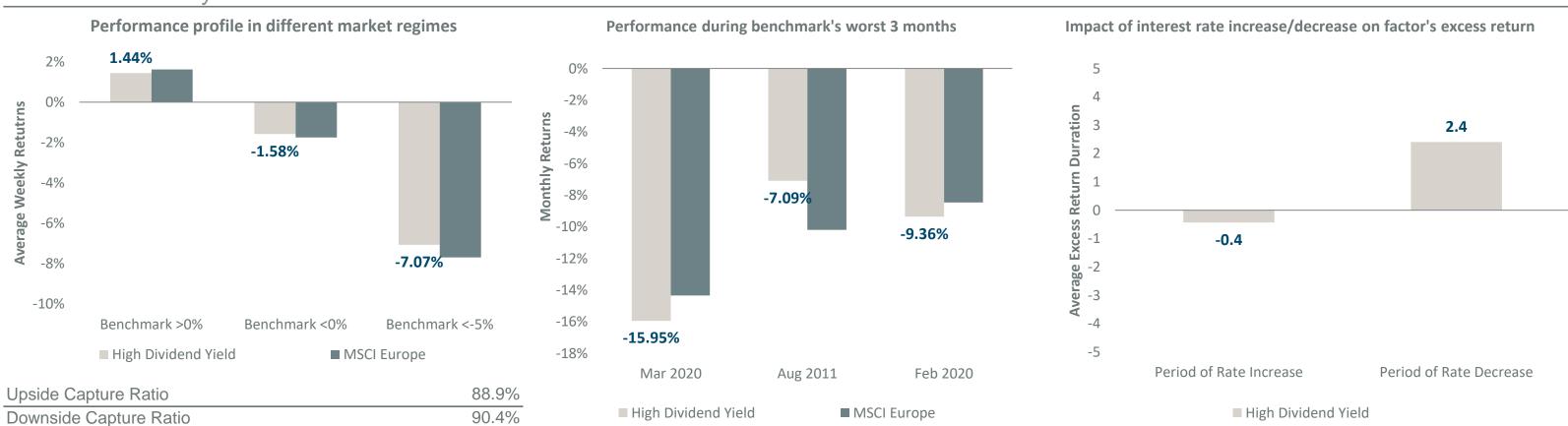


11 Month Momentum⁴

11 Month Performance (1M Removed)

High Dividend Yield	8.5%
MSCI Europe	10.4%

Risk Profile Analysis⁵



- 1. Risk measures (Volatility, Drawdown, Beta) are calculated over the last five years period using daily frequency observations.
- 2. 12 month estimated forward PE. Source MSCI, Bloomberg LLC. Data from June 2003 (from July 2005 for Small Cap).
- 3. Source: Morningstar, DWS Calculations. Weekly data for the last 12 months.
- 4. 11M Momentum is defined as the 11M performance of the index calculated as of 1 month ago (often referred in the literature as "1M removed").
- 5. All calculations are done over the last 15 years.

Factor Assesment Framework - Glossary

Definitions

Flows

Amount of money invested in UCITS ETFs

Sharpe Ratio

The Sharpe Ratio is a measure for calculating risk-adjusted return, and this ratio has become the industry standard for such calculations. It was developed by Nobel laureate William F. Sharpe. The Sharpe ratio is the average return earned in excess of the risk-free rate per unit of volatility or total risk.

Volatility

Historical volatility is an indicator of risk. It measures the degree of variation of a trading price series over time, as measured by the standard deviation of returns. In this case, it is calculated over the last 5 years using daily returns.

Maximum Drawdown

Maximum drawdown is an indicator of risk. It measures the largest drop from peak to trough in the price of an asset.

Beta

Beta is a measure of the risk compared to a given benchmark (here the large cap index). Beta is calculated using regression analysis. A beta of less than 1 means that the small cap index will be less volatile than the large cap index.

Tracking Error

Tracking error is a measure of relative risk versus a given benchmark. It is defined as the annualized divergence between the price behavior of an index and the price behavior of a benchmark calculated as the standard deviation of the difference between their returns. Here, it is calculated over the last 5 years using daily returns.

12m Forward P/E (Consensus)

Weighted Average Price/Earnings per Share ratio based on 12-month-forward Earnings

11 Month Momentum

Momentum refers to the rate of change of price movements for a particular index – that is, the speed at which the price is changing. In this case, the traditional measure of momentum is used i.e. the 11 Month performance of the index calculated a month ago.

Historical Median

Value lying at the midpoint of a frequency distribution of observed values, such that there is an equal probability of falling above or below it.

5 Year Historical Z-Score

A z-score (aka, a standard score) indicates how many standard deviations an element is from the mean. It is a dimensionless quantity obtained by subtracting the population mean from an individual raw score and then dividing the difference by the population's standard deviation. Here, the last 5 year data observed on a monthly basis is used.

A few words on Risk Profile Analysis

Performance Profile

This analysis aims to define the behavior of the factor in different market regimes. 3 market regimes are defined using weekly returns of the benchmark: Benchmark positive returns, Benchmark negative returns and Benchmark negative returns under -5%. The average weekly return of the factor in each of these 3 regimes is then calculated over the last 15 years. Cyclical factors will tend to show higher average returns during positive return regime and lower average in the other two. Defensive factors would react inversely.

Worst 3 months Performance

This analysis aims to define the behavior of the factor in crisis. The analysis focuses on the worst 3 months for the benchmark in term of performance over the last 15 years. The performance of the each factors over those 3 months is then compared to the benchmark's performance. Cyclical factors tend to show larger drawdowns and Defensive factors smaller ones

Impact of interest rate

This analysis aims to define the behavior of the factor with respect to interest rate changes. The analysis define periods in which the interest rates increase or decrease over the last 15 years. For each defined period, the sensitivity to interest rate is calculated by dividing the performance of the factor over/under the benchmark by the change in interest rate. Then the average of all the sensitivities during rate hike and rate decrease is calculated and displayed in the graph. A positive sensitivity indicate that the factor tends to move with the rate ie outperform the benchmark when rate increase and underperform the benchmark when rate decrease.

Rolling 12 Months Performance as of 29-Mar-2024

Name	Currency										31-Mar-14- 31-Mar-15
		23-Wai-24	31-Wai-23	31-Wai-22	31-Wai-21	31-IVIA1-20	31-Wai-19	31-Mai-10	31-Iviai-17	31-Wai-10	31-Wai-13
MSCI Europe	EUR	14.8%	3.8%	9.3%	35.3%	-13.5%	5.5%	-0.4%	16.9%	-13.7%	22.0%
MSCI Europe Min Vol	EUR	8.8%	-1.2%	10.7%	18.3%	-7.4%	10.4%	-0.4%	7.6%	-4.4%	28.2%
MSCI Europe Momentum	EUR	22.6%	-2.6%	6.0%	36.0%	-1.7%	6.2%	1.5%	16.0%	-8.5%	27.7%
MSCI Europe Enhanced Value	EUR	12.2%	3.2%	10.8%	47.7%	-23.3%	0.5%	-0.6%	20.8%	-18.9%	19.6%
MSCI Europe Quality Sector Neutral	EUR	12.5%	1.2%	11.5%	32.7%	-6.3%	11.1%	-1.0%	11.1%	-6.4%	26.3%
MSCI Europe Small Cap	EUR	10.2%	-9.1%	1.9%	61.2%	-18.1%	-1.3%	8.3%	14.4%	-1.3%	18.4%
MSCI Europe High Dividend Yield	EUR	12.9%	2.8%	14.3%	29.4%	-16.3%	11.3%	-4.1%	13.2%	-10.8%	22.3%

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