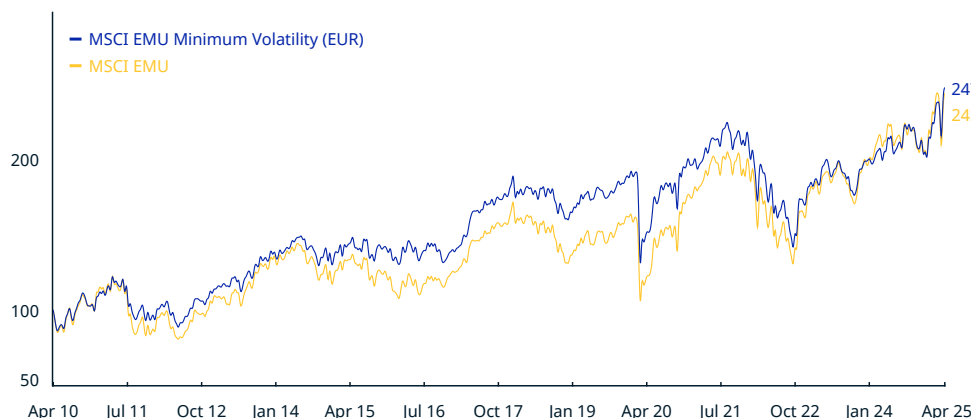


MSCI EMU Minimum Volatility (EUR) Index (USD)

The **MSCI EMU Minimum Volatility (EUR) Index** aims to reflect the performance characteristics of a minimum variance strategy applied to the large and mid cap representation across the 10 Developed Markets countries in the European Economic and Monetary Union (EMU)*. The index is calculated by optimizing the MSCI EMU Index, its parent index, in EUR for the lowest absolute risk (within a given set of constraints). Historically, the index has shown lower beta and volatility characteristics relative to the MSCI EMU Index.

For a complete description of the index methodology, please see [Index methodology - MSCI](#).

CUMULATIVE INDEX PERFORMANCE – NET RETURNS (USD) (APR 2010 – APR 2025)



ANNUAL PERFORMANCE (%)

Year	MSCI EMU Minimum Volatility (EUR)	MSCI EMU
2024	2.76	2.64
2023	16.49	22.94
2022	-21.36	-17.86
2021	10.05	13.54
2020	4.78	7.89
2019	17.67	23.20
2018	-9.82	-16.90
2017	27.96	28.06
2016	-1.24	1.34
2015	3.66	-1.42
2014	-2.59	-8.39
2013	25.12	28.94
2012	15.77	21.17
2011	-8.12	-17.64

INDEX PERFORMANCE – NET RETURNS (%) (APR 30, 2025)

	1 Mo	3 Mo	1 Yr	YTD	ANNUALIZED				Since Nov 30, 2001
					3 Yr	5 Yr	10 Yr		
MSCI EMU Minimum Volatility (EUR)	6.85	13.73	21.86	20.78	10.66	9.67	5.50	7.06	
MSCI EMU	5.40	9.79	15.93	18.22	14.04	14.04	6.15	5.84	

FUNDAMENTALS (APR 30, 2025)

Div Yld (%)	P/E	P/E Fwd	P/BV
3.09	17.67	15.85	2.30
3.04	15.56	13.64	1.86

INDEX RISK AND RETURN CHARACTERISTICS (NOV 30, 2001 – APR 30, 2025)

	Beta	Tracking Error (%)	Turnover (%) ¹	ANNUALIZED STD DEV (%) ²			SHARPE RATIO ^{2, 3}			Since Nov 30, 2001	MAXIMUM DRAWDOWN	
				3 Yr	5 Yr	10 Yr	3 Yr	5 Yr	10 Yr		(%)	Period YYYY-MM-DD
MSCI EMU Minimum Volatility (EUR)	0.80	5.94	20.41	17.11	16.99	15.49	0.43	0.47	0.30	0.38	57.60	2007-12-10–2009-03-09
MSCI EMU	1.00	0.00	2.35	19.78	20.09	18.66	0.55	0.62	0.31	0.29	64.66	2007-10-31–2009-03-09

¹ Last 12 months

² Based on monthly net returns data

³ Based on NY FED Overnight SOFR from Sep 1 2021 & on ICE LIBOR 1M prior that date

* Developed Market countries in the EMU include: Austria, Belgium, Finland, France, Germany, Ireland, Italy, the Netherlands, Portugal and Spain.

The MSCI EMU Minimum Volatility (EUR) Index was launched on Jun 28, 2011. Data prior to the launch date is back-tested test (i.e. calculations of how the index might have performed over that time period had the index existed). There are frequently material differences between back-tested performance and actual results. Past performance – whether actual or back-tested – is no indication or guarantee of future performance.

INDEX CHARACTERISTICS

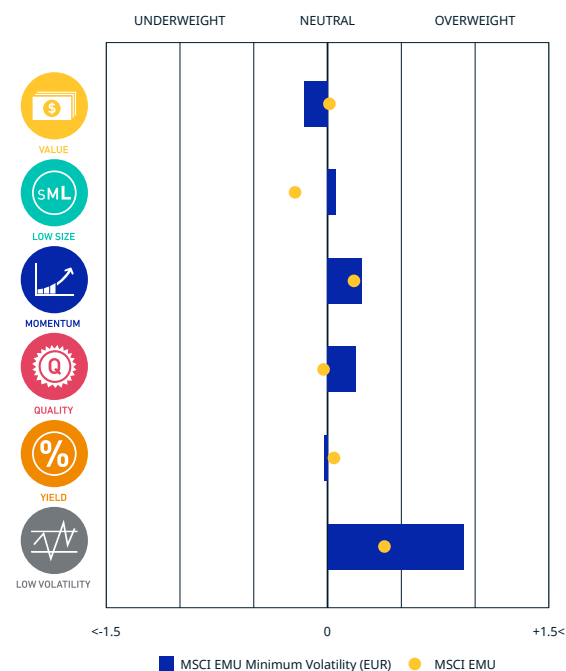
	MSCI EMU Minimum Volatility (EUR)	MSCI EMU
Number of Constituents	120	216
	Weight (%)	
Largest	2.03	4.88
Smallest	0.04	0.04
Average	0.83	0.46
Median	0.75	0.23

TOP 10 CONSTITUENTS

	Country	Index Wt. (%)	Parent Index Wt. (%)	Sector
THALES	FR	2.03	0.42	Industrials
DEUTSCHE BOERSE	DE	1.86	0.98	Financials
ORANGE	FR	1.80	0.44	Comm Svcs
MUENCHENER RUECKVERSICH	DE	1.76	1.47	Financials
ALLIANZ	DE	1.75	2.57	Financials
ASSICURAZIONI GENERALI	IT	1.72	0.55	Financials
IBERDROLA	ES	1.67	1.69	Utilities
DANONE	FR	1.61	0.90	Cons Staples
SAP	DE	1.59	4.88	Info Tech
KONINKLIJKE KPN	NL	1.57	0.29	Comm Svcs
Total		17.37	14.19	

FACTORS - KEY EXPOSURES THAT DRIVE RISK AND RETURN

MSCI FACTOR BOX



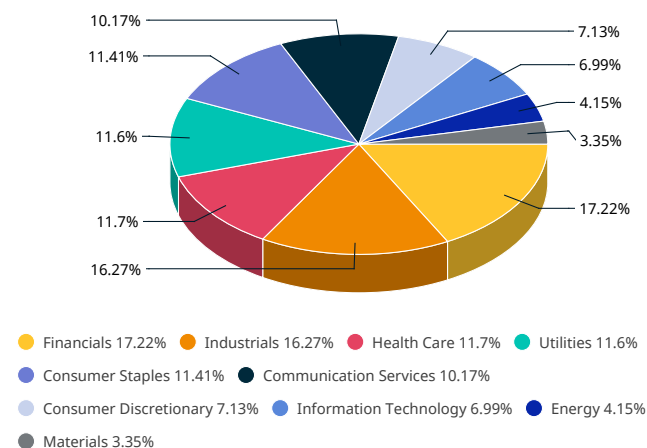
MSCI FaCS

- VALUE**
Relatively Inexpensive Stocks
- LOW SIZE**
Smaller Companies
- MOMENTUM**
Rising Stocks
- QUALITY**
Sound Balance Sheet Stocks
- YIELD**
Cash Flow Paid Out
- LOW VOLATILITY**
Lower Risk Stocks

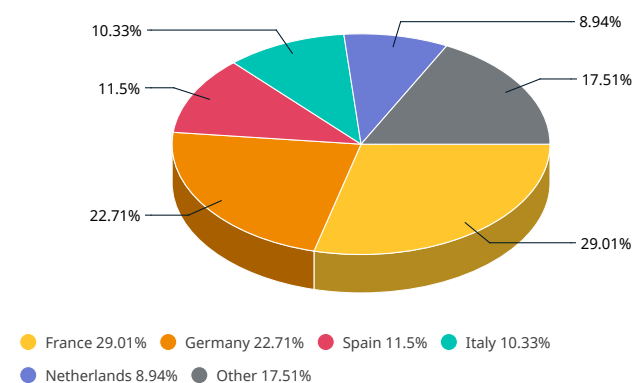
MSCI FaCS provides absolute factor exposures relative to a broad global index - MSCI ACWI IMI.

Neutral factor exposure (FaCS = 0) represents MSCI ACWI IMI.

SECTOR WEIGHTS



COUNTRY WEIGHTS



MSCI FACTOR BOX AND FaCS FRAMEWORK (Please refer to complete description of the MSCI FaCS methodology [here](#))

MSCI FaCS is a standard method for evaluating and reporting the Factor characteristics of equity portfolios. MSCI FaCS consists of Factor Groups (e.g. Value, Size, Momentum, Quality, Yield, and Volatility) that have been extensively documented in academic literature and validated by MSCI Research as key drivers of risk and return in equity portfolios. These Factor Groups are constructed by aggregating 16 factors (e.g. Book-to-Price, Earnings/Dividend Yields, LT Reversal, Leverage, Earnings Variability/Quality, Beta) from the latest Barra global equity factor risk model, GEMLT, designed to make fund comparisons transparent and intuitive for use. The MSCI Factor Box, which is powered by MSCI FaCS, provides a visualization designed to easily compare absolute exposures of funds/indexes and their benchmarks along 6 Factor Groups that have historically demonstrated excess market returns over the long run.

ABOUT MSCI

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