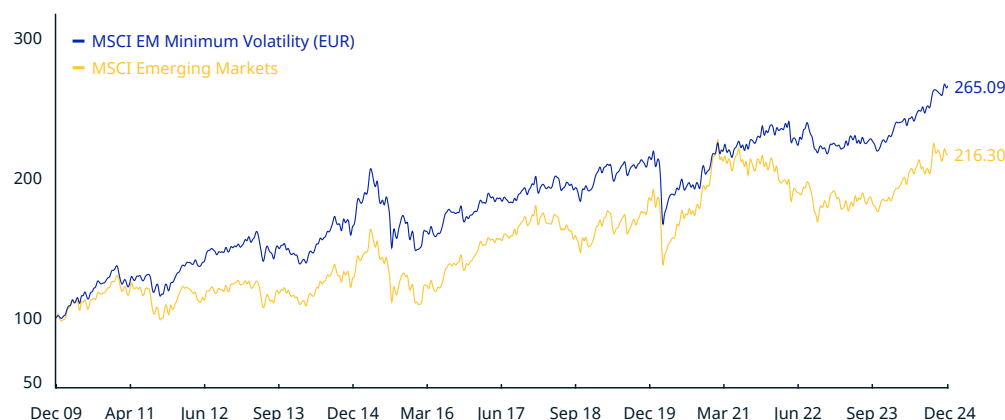


MSCI Emerging Markets Minimum Volatility (EUR) Index (EUR)

The MSCI Emerging Markets Minimum Volatility (EUR) Index aims to reflect the performance characteristics of a minimum variance strategy applied to large and mid-cap equities across 25 Emerging Markets (EM) countries*. The index is calculated by optimizing the MSCI Emerging Markets 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 Emerging Markets Index.

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

CUMULATIVE INDEX PERFORMANCE – NET RETURNS (EUR) (DEC 2009 – DEC 2024)



ANNUAL PERFORMANCE (%)

Year	MSCI EM Minimum Volatility (EUR)	MSCI Emerging Markets
2024	14.64	14.68
2023	6.52	6.11
2022	-7.60	-14.85
2021	12.76	4.86
2020	-2.29	8.54
2019	11.29	20.60
2018	-0.74	-10.26
2017	11.62	20.59
2016	7.41	14.51
2015	-3.84	-5.23
2014	14.44	11.38
2013	-3.21	-6.81
2012	18.92	16.41
2011	-5.98	-15.70

INDEX PERFORMANCE – NET RETURNS (%) (DEC 31, 2024)

	1 Mo	3 Mo	1 Yr	YTD	ANNUALIZED				Since May 31, 2001
					3 Yr	5 Yr	10 Yr		
MSCI EM Minimum Volatility (EUR)	2.15	1.57	14.64	14.64	4.11	4.45	4.70		8.36
MSCI Emerging Markets	1.86	-0.85	14.68	14.68	1.19	3.35	5.26		6.76

FUNDAMENTALS (DEC 31, 2024)

Div Yld (%)	P/E	P/E Fwd	P/BV
3.17	15.42	13.30	1.79
2.64	15.43	11.91	1.80

INDEX RISK AND RETURN CHARACTERISTICS (MAY 31, 2001 – DEC 31, 2024)

	Beta	Tracking Error (%)	Turnover (%) ¹	ANNUALIZED STD DEV (%) ²			SHARPE RATIO ^{2, 3}			Since May 31, 2001	MAXIMUM DRAWDOWN	
				3 Yr	5 Yr	10 Yr	3 Yr	5 Yr	10 Yr		(%)	Period YYYY-MM-DD
MSCI EM Minimum Volatility (EUR)	0.73	6.48	20.96	8.60	10.92	10.65	0.25	0.35	0.45	0.56	46.45	2007-10-29–2008-10-27
MSCI Emerging Markets	1.00	0.00	5.64	13.67	15.03	14.28	-0.01	0.22	0.40	0.38	59.79	2007-10-29–2008-10-27

¹ Last 12 months

² Based on monthly net returns data

³ Based on EMMI EURIBOR 1M from Sep 1 2021 & on ICE LIBOR 1M prior that date

* EM countries include: Brazil, Chile, China, Colombia, Czech Republic, Egypt, Greece, Hungary, India, Indonesia, Korea, Kuwait, Malaysia, Mexico, Peru, Philippines, Poland, Qatar, Saudi Arabia, South Africa, Taiwan, Thailand, Turkey and United Arab Emirates.

The MSCI Emerging Markets Minimum Volatility (EUR) Index was launched on Feb 11, 2013. 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

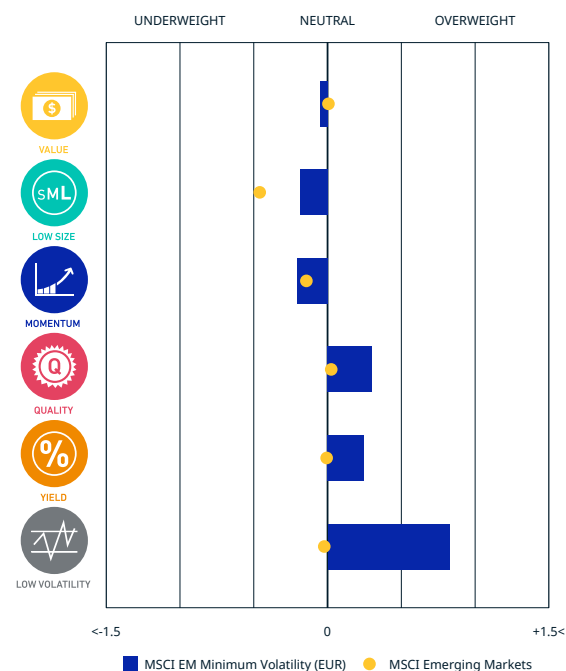
	MSCI EM Minimum Volatility (EUR)	MSCI Emerging Markets
Number of Constituents	394	1,252
	Weight (%)	
Largest	1.50	10.54
Smallest	0.04	0.00
Average	0.25	0.08
Median	0.15	0.03

TOP 10 CONSTITUENTS

	Country	Index Wt. (%)	Parent Index Wt. (%)	Sector
BANK OF CHINA H	CN	1.50	0.47	Financials
CHUNGHWA TELECOM CO	TW	1.49	0.19	Comm Svcs
TAIWAN MOBILE	TW	1.47	0.08	Comm Svcs
TATA CONSULTANCY	IN	1.37	0.56	Info Tech
AGRI BANK OF CHINA H	CN	1.22	0.21	Financials
MALAYAN BANKING	MY	1.21	0.16	Financials
HCL TECHNOLOGIES	IN	1.20	0.28	Info Tech
NATIONAL BANK OF KUWAIT	KW	1.20	0.30	Financials
SAUDI TELECOM CO	SA	1.18	0.28	Comm Svcs
ADVANCED INFO SERVICE	TH	1.14	0.13	Comm Svcs
Total		12.99	2.66	

FACTORS - KEY EXPOSURES THAT DRIVE RISK AND RETURN

MSCI FACTOR BOX



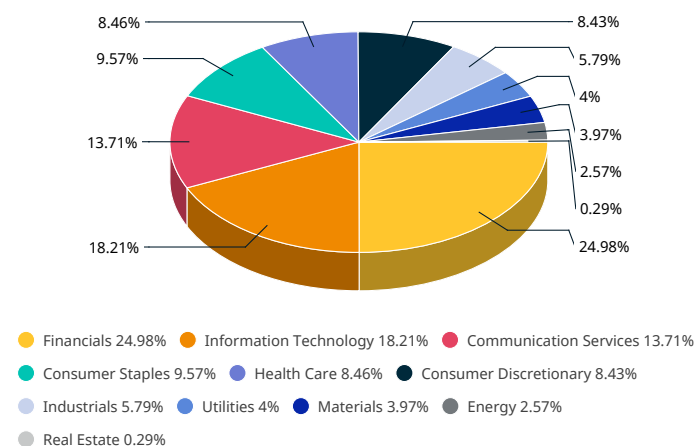
MSCI FaCS

- 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

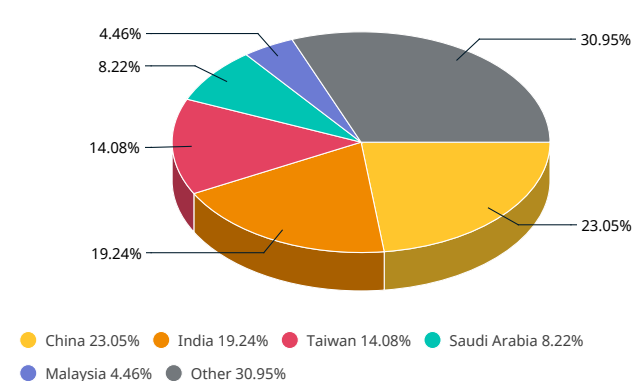
MSCI FaCS provides absolute factor exposures relative to a broad global index - MSCI ACWI IMI.

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

MSCI is a leading provider of critical decision support tools and services for the global investment community. With over 45 years of expertise in research, data and technology, we power better investment decisions by enabling clients to understand and analyze key drivers of risk and return and confidently build more effective portfolios. We create industry-leading research-enhanced solutions that clients use to gain insight into and improve transparency across the investment process. To learn more, please visit www.msci.com.

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