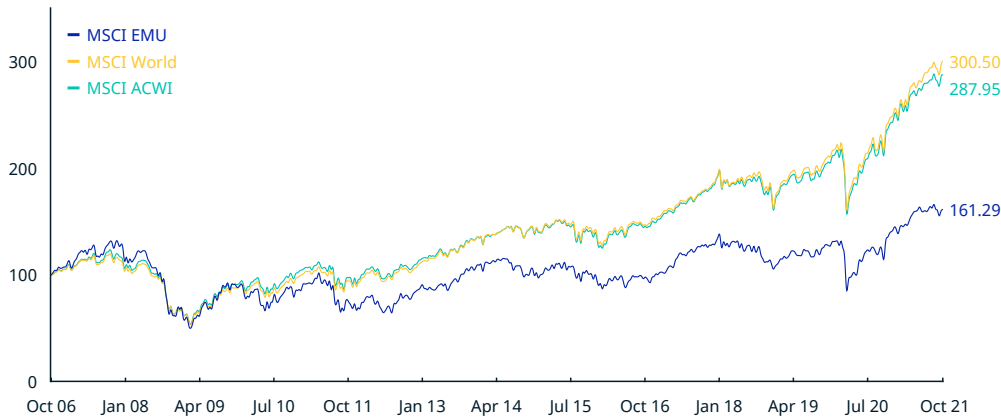


MSCI EMU Index (USD)

The MSCI EMU Index (European Economic and Monetary Union) captures large and mid cap representation across the 10 Developed Markets (DM) countries in the EMU*. With 235 constituents, the index covers approximately 85% of the free float-adjusted market capitalization of the EMU.

CUMULATIVE INDEX PERFORMANCE – NET RETURNS (USD) (OCT 2006 – OCT 2021)



ANNUAL PERFORMANCE (%)

Year	MSCI EMU	MSCI World	MSCI ACWI
2020	7.89	15.90	16.25
2019	23.20	27.67	26.60
2018	-16.90	-8.71	-9.41
2017	28.06	22.40	23.97
2016	1.34	7.51	7.86
2015	-1.42	-0.87	-2.36
2014	-8.39	4.94	4.16
2013	28.94	26.68	22.80
2012	21.17	15.83	16.13
2011	-17.64	-5.54	-7.35
2010	-4.25	11.76	12.67
2009	31.41	29.99	34.63
2008	-47.57	-40.71	-42.19
2007	19.55	9.04	11.66

INDEX PERFORMANCE – NET RETURNS (%) (OCT 29, 2021)

	1 Mo	3 Mo	1 Yr	YTD	ANNUALIZED				Since Dec 29, 2000
					3 Yr	5 Yr	10 Yr		
MSCI EMU	3.95	0.58	42.79	13.85	12.52	10.56	7.63	4.15	
MSCI World	5.66	3.80	40.42	19.44	18.20	15.45	12.19	6.67	
MSCI ACWI	5.10	3.28	37.28	16.79	17.47	14.72	11.32	6.66	

FUNDAMENTALS (OCT 29, 2021)

Div Yld (%)	P/E	P/E Fwd	P/BV
2.14	19.37	15.83	1.98
1.65	23.82	19.54	3.37
1.72	22.33	18.40	3.10

INDEX RISK AND RETURN CHARACTERISTICS (OCT 29, 2021)

	Turnover (%) ¹	ANNUALIZED STD DEV (%) ²			SHARPE RATIO ^{2,3}			Since Dec 29, 2000	MAXIMUM DRAWDOWN	
		3 Yr	5 Yr	10 Yr	3 Yr	5 Yr	10 Yr		(%)	Period YYYY-MM-DD
MSCI EMU	2.09	21.32	18.59	17.71	0.61	0.57	0.46	0.31	64.66	2007-10-31–2009-03-09
MSCI World	2.65	17.93	14.88	13.18	0.96	0.96	0.89	0.38	34.03	2020-02-12–2020-03-23
MSCI ACWI	3.33	17.60	14.70	13.18	0.94	0.93	0.83	0.39	33.74	2020-02-12–2020-03-23

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

* DM countries include: Austria, Belgium, Finland, France, Germany, Ireland, Italy, Netherlands, Portugal and Spain.

The MSCI EMU Index was launched on Apr 30, 1998. Data prior to the launch date is back-tested data (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

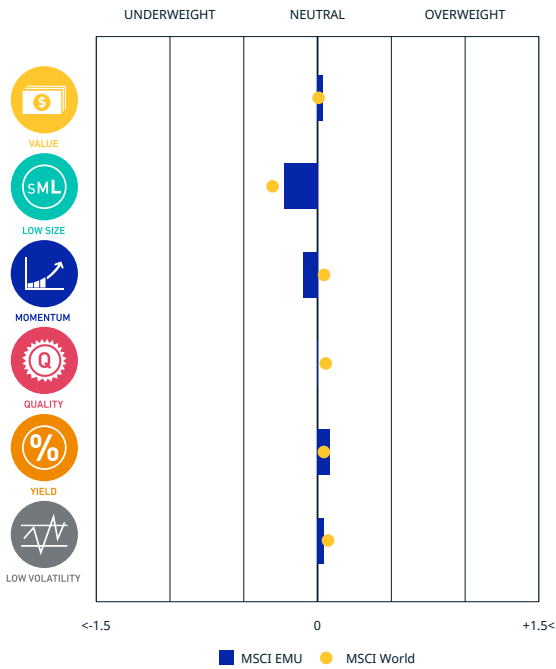
MSCI EMU	
Number of Constituents	235
Mkt Cap (USD Millions)	
Index	5,760,066.32
Largest	340,067.16
Smallest	2,192.66
Average	24,510.92
Median	12,386.37

TOP 10 CONSTITUENTS

	Country	Float Adj Mkt Cap (USD Billions)	Index Wt. (%)	Sector
ASML HLDG	NL	340.07	5.90	Info Tech
LVMH MOET HENNESSY	FR	217.57	3.78	Cons Discr
SAP	DE	151.44	2.63	Info Tech
TOTALENERGIES	FR	125.39	2.18	Energy
SIEMENS	DE	124.19	2.16	Industrials
LOREAL	FR	115.32	2.00	Cons Staples
SANOFI	FR	113.49	1.97	Health Care
ALLIANZ	DE	95.97	1.67	Financials
SCHNEIDER ELECTRIC	FR	92.83	1.61	Industrials
DAIMLER	DE	84.92	1.47	Cons Discr
Total		1,461.19	25.37	

FACTORS - KEY EXPOSURES THAT DRIVE RISK AND RETURN

MSCI FACTOR BOX



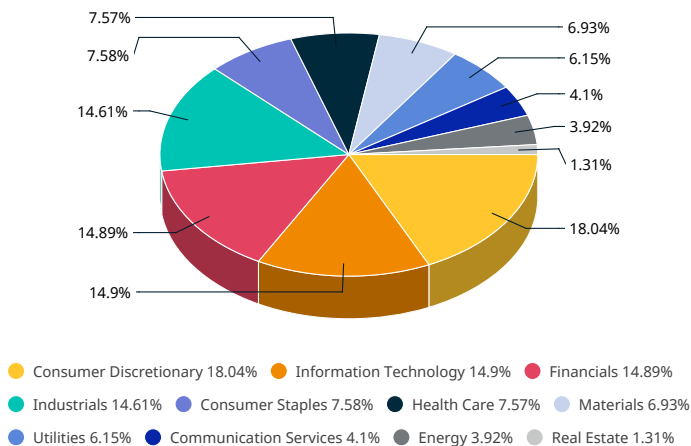
MSCI FaCS

- 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

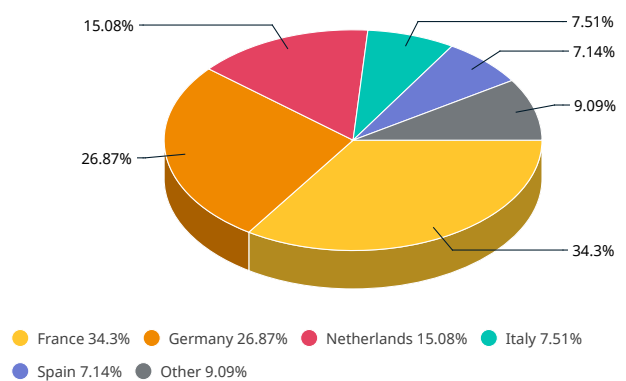
MSCI FaCS provides absolute factor exposures relative to a broad global index - MSCI ACWI IMI.

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

SECTOR WEIGHTS



COUNTRY WEIGHTS



INDEX METHODOLOGY

The index is based on the [MSCI Global Investable Market Indexes \(GIMI\) Methodology](#)—a comprehensive and consistent approach to index construction that allows for meaningful global views and cross regional comparisons across all market capitalization size, sector and style segments and combinations. This methodology aims to provide exhaustive coverage of the relevant investment opportunity set with a strong emphasis on index liquidity, investability and replicability. The index is reviewed quarterly—in February, May, August and November—with the objective of reflecting change in the underlying equity markets in a timely manner, while limiting undue index turnover. During the May and November semi-annual index reviews, the index is rebalanced and the large and mid capitalization cutoff points are recalculated.

FACTOR BOX AND FaCS METHODOLOGY

MSCI FaCS is a standard method ([MSCI FaCS Methodology](#)) 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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