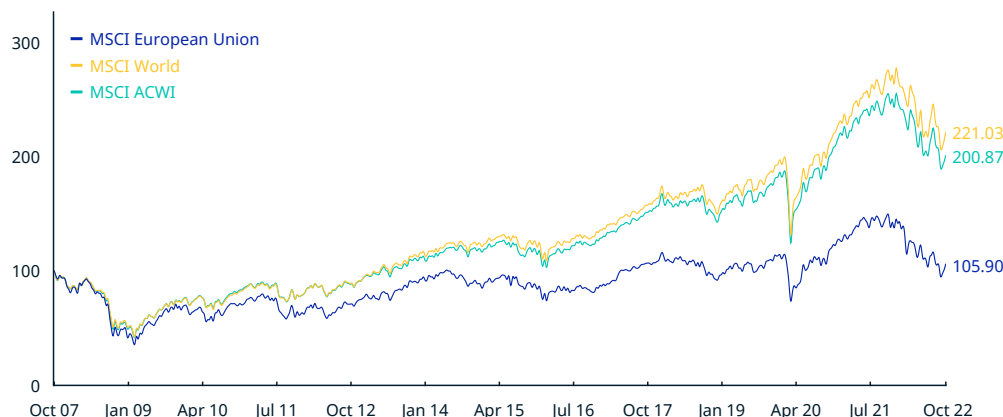


# MSCI European Union Index (USD)

The MSCI European Union (EU) Index captures large and mid cap representation across the 13 Developed Markets (DM) countries and 4 Emerging Markets (EM) countries in Europe\*. With 322 constituents, the index covers approximately 85% of the free float-adjusted market capitalization in the European equity universe.

## CUMULATIVE INDEX PERFORMANCE – GROSS RETURNS (USD) (OCT 2007 – OCT 2022)



## ANNUAL PERFORMANCE (%)

Year	MSCI European Union	MSCI World	MSCI ACWI
2021	15.42	22.35	19.04
2020	10.69	16.50	16.82
2019	23.06	28.40	27.30
2018	-15.31	-8.20	-8.93
2017	26.81	23.07	24.62
2016	0.82	8.15	8.48
2015	-3.10	-0.32	-1.84
2014	-6.68	5.50	4.71
2013	25.61	27.37	23.44
2012	19.84	16.54	16.80
2011	-11.40	-5.02	-6.86
2010	3.33	12.34	13.21
2009	37.85	30.79	35.41
2008	-47.68	-40.33	-41.85

## INDEX PERFORMANCE – GROSS RETURNS (%) (OCT 31, 2022)

	1 Mo	3 Mo	1 Yr	YTD	ANNUALIZED				Since Dec 31, 1987	FUNDAMENTALS (OCT 31, 2022)			
					3 Yr	5 Yr	10 Yr	Div Yld (%)		P/E	P/E Fwd	P/BV	
MSCI European Union	8.83	-7.73	-27.34	-27.13	-0.62	-0.30	4.06	7.06	3.27	13.86	11.43	1.60	
MSCI World	7.21	-6.74	-18.09	-19.74	6.62	6.92	9.52	7.81	2.17	17.39	14.89	2.75	
MSCI ACWI	6.06	-7.54	-19.58	-20.81	5.34	5.76	8.54	7.64	2.33	16.45	14.21	2.53	

## INDEX RISK AND RETURN CHARACTERISTICS (OCT 31, 2022)

	Turnover (%) <sup>1</sup>	ANNUALIZED STD DEV (%) <sup>2</sup>			SHARPE RATIO <sup>2,3</sup>			Since Dec 31, 1987	MAXIMUM DRAWDOWN	
		3 Yr	5 Yr	10 Yr	3 Yr	5 Yr	10 Yr		(%)	Period YYYY-MM-DD
MSCI European Union	2.71	23.63	20.25	17.08	0.06	0.03	0.27	0.29	64.00	2007-10-31–2009-03-09
MSCI World	2.31	20.27	17.74	14.30	0.39	0.40	0.65	0.36	57.46	2007-10-31–2009-03-09
MSCI ACWI	2.62	19.63	17.31	14.07	0.33	0.34	0.60	0.35	58.06	2007-10-31–2009-03-09

<sup>1</sup> Last 12 months

<sup>2</sup> Based on monthly gross returns data

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

\* **DM countries** include: Austria, Belgium, Denmark, Finland, France, Germany, Ireland, Italy, the Netherlands, Portugal, Spain, Sweden and the UK. **EM countries** include: Czech Republic, Greece, Hungary and Poland.

The MSCI European Union Index was launched on May 31, 1990. 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**

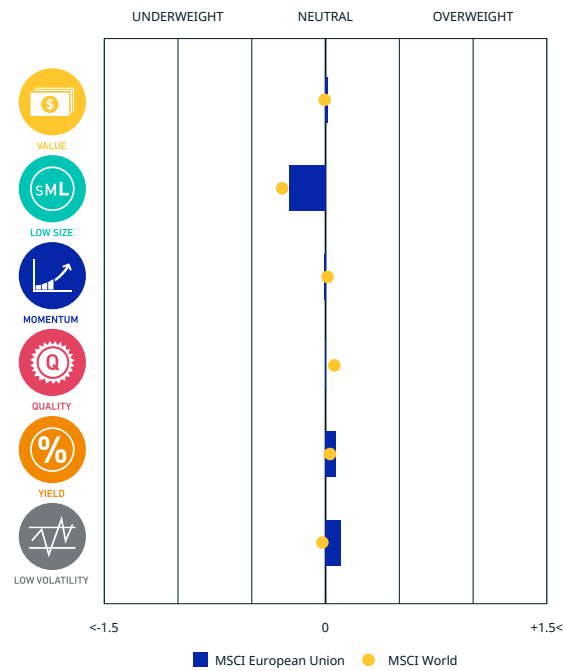
MSCI European Union	
<b>Number of Constituents</b>	322
<b>Mkt Cap (USD Millions)</b>	
<b>Index</b>	4,956,000.59
<b>Largest</b>	192,031.26
<b>Smallest</b>	274.17
<b>Average</b>	15,391.31
<b>Median</b>	7,340.93

**TOP 10 CONSTITUENTS**

	Country	Float Adj Mkt Cap (USD Billions)	Index Wt. (%)	Sector
ASML HLDG	NL	192.03	3.87	Info Tech
NOVO NORDISK B	DK	180.01	3.63	Health Care
LVMH MOET HENNESSY	FR	175.33	3.54	Cons Discr
TOTALENERGIES	FR	135.02	2.72	Energy
SAP	DE	100.80	2.03	Info Tech
SANOFI	FR	98.29	1.98	Health Care
SIEMENS	DE	83.65	1.69	Industrials
L'OREAL	FR	75.87	1.53	Cons Staples
ALLIANZ	DE	73.55	1.48	Financials
SCHNEIDER ELECTRIC	FR	68.78	1.39	Industrials
<b>Total</b>		<b>1,183.33</b>	<b>23.88</b>	

**FACTORS - KEY EXPOSURES THAT DRIVE RISK AND RETURN**

**MSCI FACTOR BOX**



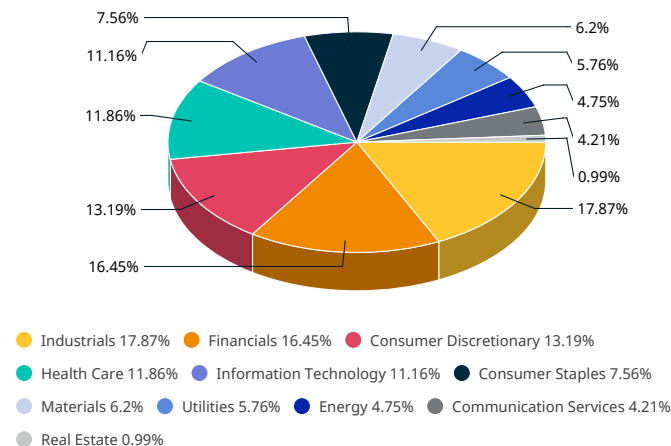
**MSCI FaCS**

- 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

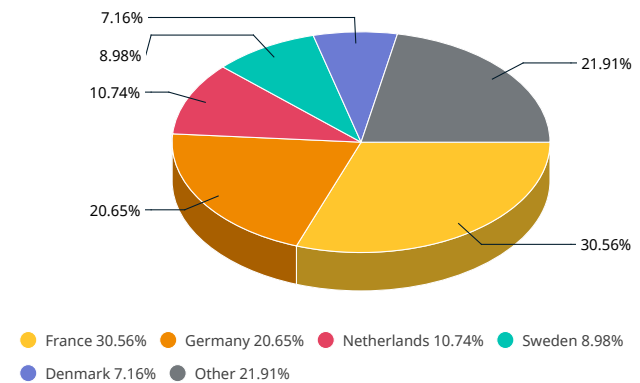
MSCI FaCS provides absolute factor exposures relative to a broad global index - MSCI ACWI IMI.

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

**SECTOR WEIGHTS**



**COUNTRY WEIGHTS**



## INDEX FRAMEWORK

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 large and mid capitalization cutoff points are recalculated.

This summary is provided for illustrative purposes only and does not include all material elements of the index or its methodology. For a complete description of the index methodology, please see [Index methodology - MSCI](#).

## 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](http://www.msci.com).

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