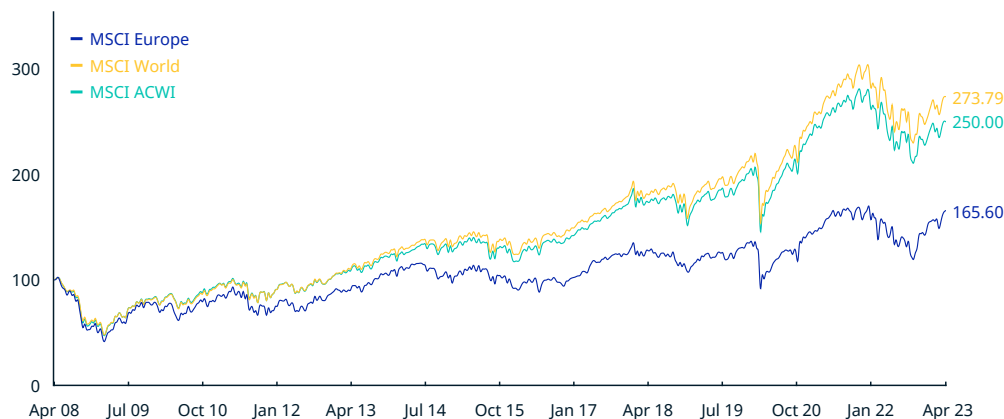


MSCI Europe Index (USD)

The MSCI Europe Index captures large and mid cap representation across 15 Developed Markets (DM) countries in Europe*. With 423 constituents, the index covers approximately 85% of the free float-adjusted market capitalization across the European Developed Markets equity universe.

CUMULATIVE INDEX PERFORMANCE – GROSS RETURNS (USD) (APR 2008 – APR 2023)



ANNUAL PERFORMANCE (%)

Year	MSCI Europe	MSCI World	MSCI ACWI
2022	-14.53	-17.73	-17.96
2021	16.97	22.35	19.04
2020	5.93	16.50	16.82
2019	24.59	28.40	27.30
2018	-14.32	-8.20	-8.93
2017	26.24	23.07	24.62
2016	0.22	8.15	8.48
2015	-2.34	-0.32	-1.84
2014	-5.68	5.50	4.71
2013	25.96	27.37	23.44
2012	19.93	16.54	16.80
2011	-10.50	-5.02	-6.86
2010	4.49	12.34	13.21
2009	36.81	30.79	35.41

INDEX PERFORMANCE – GROSS RETURNS (%) (APR 28, 2023)

	ANNUALIZED								FUNDAMENTALS (APR 28, 2023)			
	1 Mo	3 Mo	1 Yr	YTD	3 Yr	5 Yr	10 Yr	Since Dec 31, 1987	Div Yld (%)	P/E	P/E Fwd	P/BV
MSCI Europe	4.31	6.27	12.77	15.51	15.03	5.27	5.95	8.14	3.13	15.18	12.88	1.94
MSCI World	1.80	2.54	3.72	9.82	13.64	8.69	9.29	8.06	2.08	19.39	16.45	2.85
MSCI ACWI	1.48	1.72	2.59	9.04	12.56	7.56	8.47	7.90	2.21	18.30	15.80	2.63

INDEX RISK AND RETURN CHARACTERISTICS (APR 28, 2023)

	Turnover (%) ¹	ANNUALIZED STD DEV (%) ²			SHARPE RATIO ^{2,3}			Since Dec 31, 1987	MAXIMUM DRAWDOWN	
		3 Yr	5 Yr	10 Yr	3 Yr	5 Yr	10 Yr		(%)	Period YYYY-MM-DD
MSCI Europe	2.22	19.61	19.12	16.26	0.76	0.29	0.38	na	62.72	2007-10-31–2009-03-09
MSCI World	2.23	17.75	18.11	14.62	0.75	0.47	0.61	na	57.46	2007-10-31–2009-03-09
MSCI ACWI	2.46	17.16	17.75	14.45	0.72	0.42	0.57	0.37	58.06	2007-10-31–2009-03-09

¹ Last 12 months

² Based on monthly gross returns data

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

* DM countries in Europe include: Austria, Belgium, Denmark, Finland, France, Germany, Ireland, Italy, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the UK.

The MSCI Europe Index was launched on Mar 31, 1986. 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

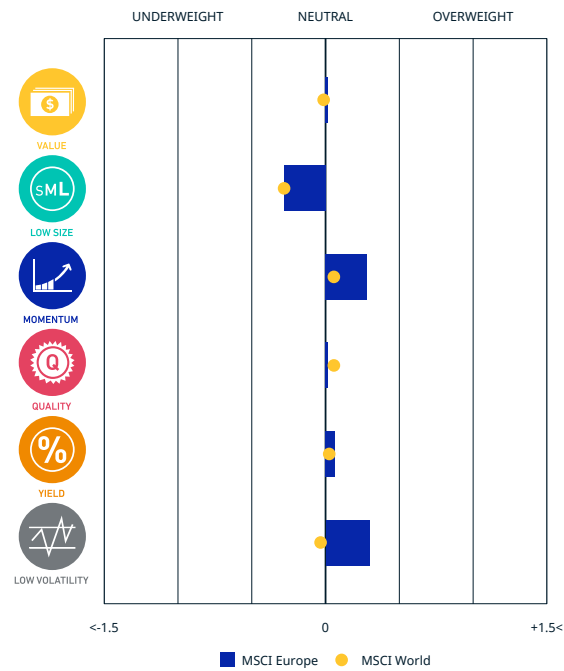
MSCI Europe	
Number of Constituents	423
Mkt Cap (USD Millions)	
Index	10,452,823.32
Largest	353,834.05
Smallest	1,357.20
Average	24,711.17
Median	10,961.38

TOP 10 CONSTITUENTS

	Country	Float Adj Mkt Cap (USD Billions)	Index Wt. (%)	Sector
NESTLE	CH	353.83	3.39	Cons Staples
NOVO NORDISK B	DK	275.75	2.64	Health Care
LVMH MOET HENNESSY	FR	266.16	2.55	Cons Discr
ASML HLDG	NL	255.24	2.44	Info Tech
ASTRAZENECA	GB	228.76	2.19	Health Care
NOVARTIS	CH	221.50	2.12	Health Care
ROCHE HOLDING GENUSS	CH	221.29	2.12	Health Care
SHELL	GB	217.52	2.08	Energy
TOTALENERGIES	FR	159.16	1.52	Energy
HSBC HOLDINGS (GB)	GB	144.01	1.38	Financials
Total		2,343.24	22.42	

FACTORS - KEY EXPOSURES THAT DRIVE RISK AND RETURN

MSCI FACTOR BOX



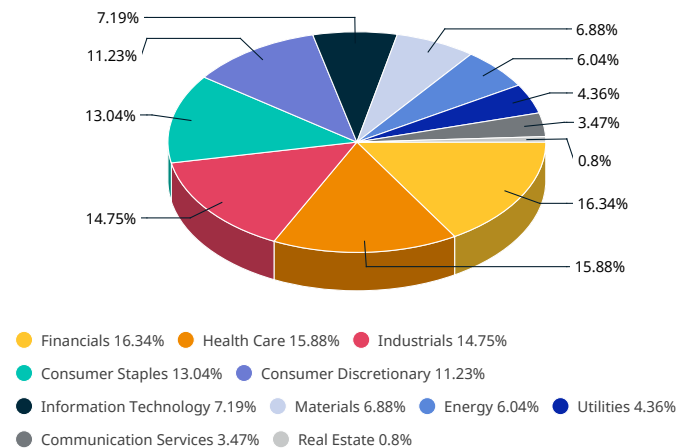
MSCI FaCS

- 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

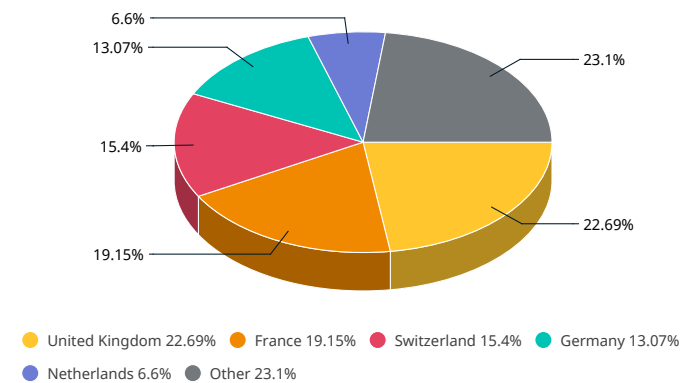
MSCI FaCS provides absolute factor exposures relative to a broad global index - MSCI ACWI IMI.

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.

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

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