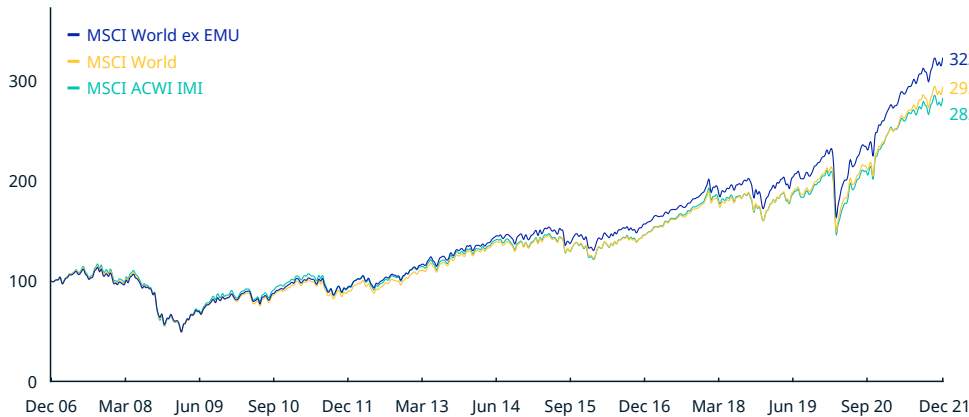


MSCI World ex EMU Index (USD)

The MSCI World ex EMU Index (European Economic and Monetary Union) captures large and mid cap representation across 13 of 23 Developed Markets countries* (excluding those in the EMU). With 1,313 constituents, the index covers approximately 85% of the free float-adjusted market capitalization in each country.

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



ANNUAL PERFORMANCE (%)

Year	MSCI World ex EMU	MSCI World	MSCI ACWI IMI
2021	22.73	21.82	18.22
2020	16.86	15.90	16.25
2019	28.22	27.67	26.35
2018	-7.58	-8.71	-10.08
2017	21.68	22.40	23.95
2016	8.33	7.51	8.36
2015	-0.79	-0.87	-2.19
2014	6.92	4.94	3.84
2013	26.35	26.68	23.55
2012	15.12	15.83	16.38
2011	-3.69	-5.54	-7.89
2010	14.76	11.76	14.35
2009	29.75	29.99	36.41
2008	-39.24	-40.71	-42.34

INDEX PERFORMANCE – NET RETURNS (%) (DEC 31, 2021)

	1 Mo	3 Mo	1 Yr	YTD	ANNUALIZED				Since May 31, 1994
					3 Yr	5 Yr	10 Yr		
MSCI World ex EMU	4.10	8.20	22.73	22.73	22.52	15.64	13.20	8.18	
MSCI World	4.27	7.77	21.82	21.82	21.70	15.03	12.70	8.05	
MSCI ACWI IMI	3.97	6.10	18.22	18.22	20.20	14.12	11.84	7.80	

FUNDAMENTALS (DEC 31, 2021)

Div Yld (%)	P/E	P/E Fwd	P/BV
1.61	23.28	20.00	3.66
1.66	22.74	19.46	3.39
1.73	21.68	18.19	2.92

INDEX RISK AND RETURN CHARACTERISTICS (DEC 31, 2021)

	Turnover (%) ¹	ANNUALIZED STD DEV (%) ²			SHARPE RATIO ^{2,3}			Since May 31, 1994	MAXIMUM DRAWDOWN	
		3 Yr	5 Yr	10 Yr	3 Yr	5 Yr	10 Yr		(%)	Period YYYY-MM-DD
MSCI World ex EMU	2.64	16.99	14.81	12.90	1.23	0.98	0.97	0.39	56.39	2007-10-31–2009-03-09
MSCI World	2.55	17.30	15.01	13.21	1.17	0.93	0.92	0.39	57.82	2007-10-31–2009-03-09
MSCI ACWI IMI	3.23	17.53	15.17	13.39	1.08	0.87	0.85	0.40	58.59	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

* DM countries include: Australia, Canada, Denmark, Hong Kong, Israel, Japan, New Zealand, Norway, Singapore, Sweden, Switzerland, the UK and the US.

The MSCI World ex 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

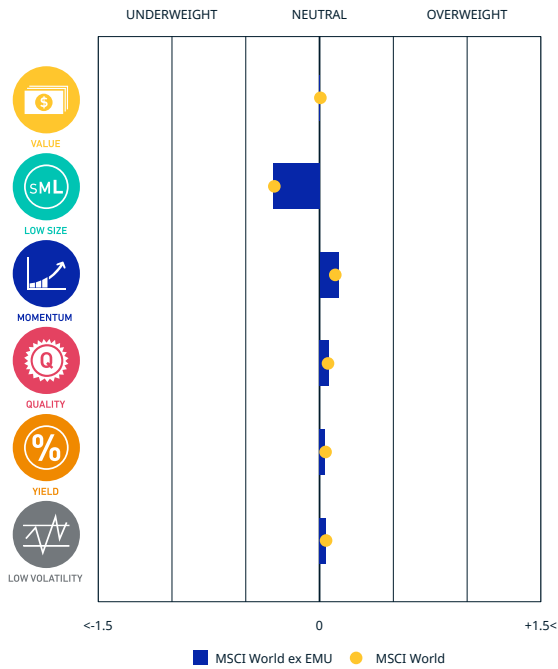
MSCI World ex EMU	
Number of Constituents	1,313
Mkt Cap (USD Millions)	
Index	56,638,729.38
Largest	2,935,261.58
Smallest	1,525.78
Average	43,136.88
Median	16,683.04

TOP 10 CONSTITUENTS

	Float Adj Mkt Cap (USD Billions)	Index Wt. (%)	Sector
APPLE	2,935.26	5.18	Info Tech
MICROSOFT CORP	2,401.04	4.24	Info Tech
AMAZON.COM	1,519.78	2.68	Cons Discr
TESLA	889.29	1.57	Cons Discr
ALPHABET A	872.25	1.54	Comm Srvc
ALPHABET C	833.79	1.47	Comm Srvc
META PLATFORMS A	801.80	1.42	Comm Srvc
NVIDIA	735.28	1.30	Info Tech
UNITEDHEALTH GROUP	473.48	0.84	Health Care
JPMORGAN CHASE & CO	473.17	0.84	Financials
Total	11,935.14	21.07	

FACTORS - KEY EXPOSURES THAT DRIVE RISK AND RETURN

MSCI FACTOR BOX



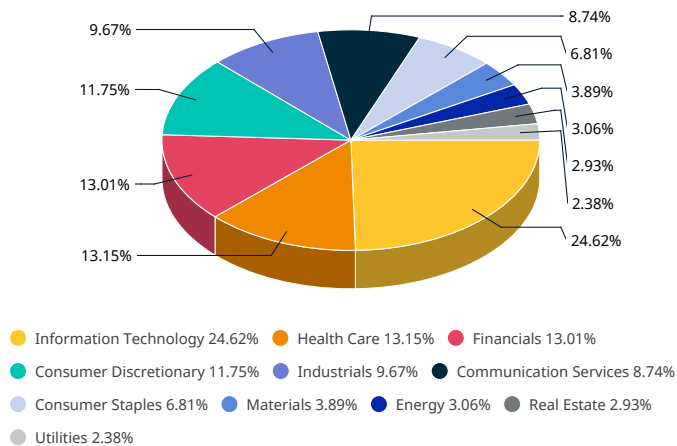
MSCI FaCS

- 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

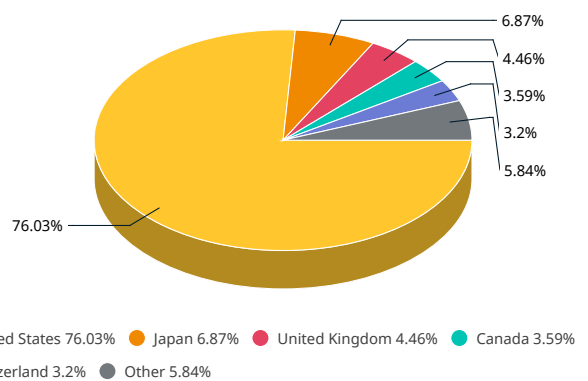
MSCI FaCS provides absolute factor exposures relative to a broad global index - MSCI ACWI IMI.

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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