

# MSCI EUROPE INDEX (USD)

The MSCI Europe Index captures large and mid cap representation across 15 Developed Markets (DM) countries in Europe\*. With 445 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) (SEP 2003 – SEP 2018)



## ANNUAL PERFORMANCE (%)

| Year | MSCI Europe | MSCI World | MSCI ACWI |
|------|-------------|------------|-----------|
| 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     |
| 2008 | -46.08      | -40.33     | -41.85    |
| 2007 | 14.39       | 9.57       | 12.18     |
| 2006 | 34.36       | 20.65      | 21.53     |
| 2005 | 9.93        | 10.02      | 11.37     |
| 2004 | 21.39       | 15.25      | 15.75     |

## INDEX PERFORMANCE — GROSS RETURNS (%) (SEP 28, 2018)

|             | 1 Mo | 3 Mo | 1 Yr  | YTD   | ANNUALIZED |      |       |                    |
|-------------|------|------|-------|-------|------------|------|-------|--------------------|
|             |      |      |       |       | 3 Yr       | 5 Yr | 10 Yr | Since Dec 31, 1987 |
| MSCI Europe | 0.37 | 0.84 | 0.33  | -1.89 | 8.37       | 4.29 | 5.49  | 8.40               |
| MSCI World  | 0.60 | 5.10 | 11.84 | 5.89  | 14.18      | 9.89 | 9.18  | 8.04               |
| MSCI ACWI   | 0.48 | 4.40 | 10.35 | 4.26  | 14.02      | 9.25 | 8.77  | 7.98               |

## FUNDAMENTALS (SEP 28, 2018)

| Div Yld (%) | P/E   | P/E Fwd | P/BV |
|-------------|-------|---------|------|
| 3.49        | 16.24 | 13.43   | 1.82 |
| 2.35        | 19.35 | 15.55   | 2.49 |
| 2.39        | 18.43 | 14.89   | 2.36 |

## INDEX RISK AND RETURN CHARACTERISTICS (SEP 28, 2018)

|             | 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 Europe | 2.13                      | 11.78                               | 12.22 | 19.35 | 0.66                         | 0.35 | 0.35  | na                     | 62.72            | 2007-10-31—2009-03-09 |
| MSCI World  | 2.19                      | 9.15                                | 9.62  | 15.44 | 1.39                         | 0.96 | 0.61  | na                     | 57.46            | 2007-10-31—2009-03-09 |
| MSCI ACWI   | 2.61                      | 9.37                                | 9.79  | 15.83 | 1.34                         | 0.89 | 0.58  | 0.36                   | 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 ICE LIBOR 1M

\* 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 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.

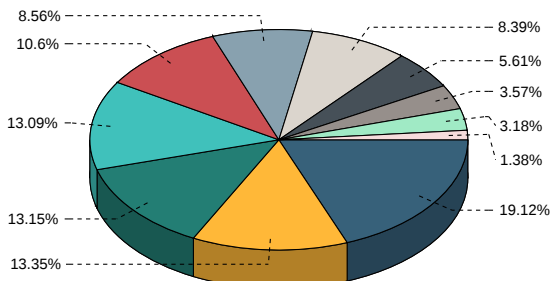
## INDEX CHARACTERISTICS

| MSCI Europe             |              |
|-------------------------|--------------|
| Number of Constituents  | 445          |
| Mkt Cap ( USD Millions) |              |
| Index                   | 9,117,733.14 |
| Largest                 | 260,684.82   |
| Smallest                | 2,062.21     |
| Average                 | 20,489.29    |
| Median                  | 10,076.06    |

## TOP 10 CONSTITUENTS

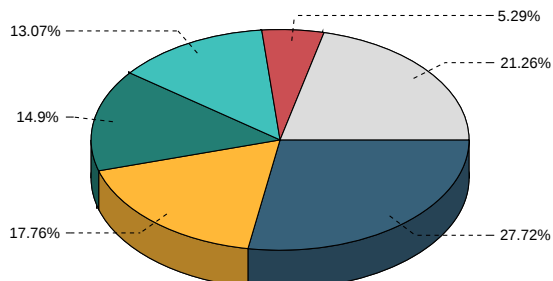
|                          | Country | Float Adj Mkt Cap ( USD Billions) | Index Wt. (%) | Sector       |
|--------------------------|---------|-----------------------------------|---------------|--------------|
| NESTLE                   | CH      | 260.68                            | 2.86          | Cons Staples |
| NOVARTIS                 | CH      | 187.33                            | 2.05          | Health Care  |
| HSBC HOLDINGS (GB)       | GB      | 175.12                            | 1.92          | Financials   |
| ROCHE HOLDING GENUSS     | CH      | 171.00                            | 1.88          | Health Care  |
| ROYAL DUTCH SHELL A      | GB      | 158.06                            | 1.73          | Energy       |
| TOTAL                    | FR      | 155.18                            | 1.70          | Energy       |
| BP                       | GB      | 153.31                            | 1.68          | Energy       |
| ROYAL DUTCH SHELL B      | GB      | 131.34                            | 1.44          | Energy       |
| SAP                      | DE      | 121.00                            | 1.33          | Info Tech    |
| BRITISH AMERICAN TOBACCO | GB      | 107.21                            | 1.18          | Cons Staples |
| <b>Total</b>             |         | <b>1,620.24</b>                   | <b>17.77</b>  |              |

## SECTOR WEIGHTS



- Financials 19.12%
- Consumer Staples 13.35%
- Industrials 13.15%
- Health Care 13.09%
- Consumer Discretionary 10.6%
- Energy 8.56%
- Materials 8.39%
- Information Technology 5.61%
- Utilities 3.57%
- Telecommunication Services 3.18%
- Real Estate 1.38%

## COUNTRY WEIGHTS



- United Kingdom 27.72%
- France 17.76%
- Germany 14.9%
- Switzerland 13.07%
- Netherlands 5.29%
- Other 21.26%

## 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.

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