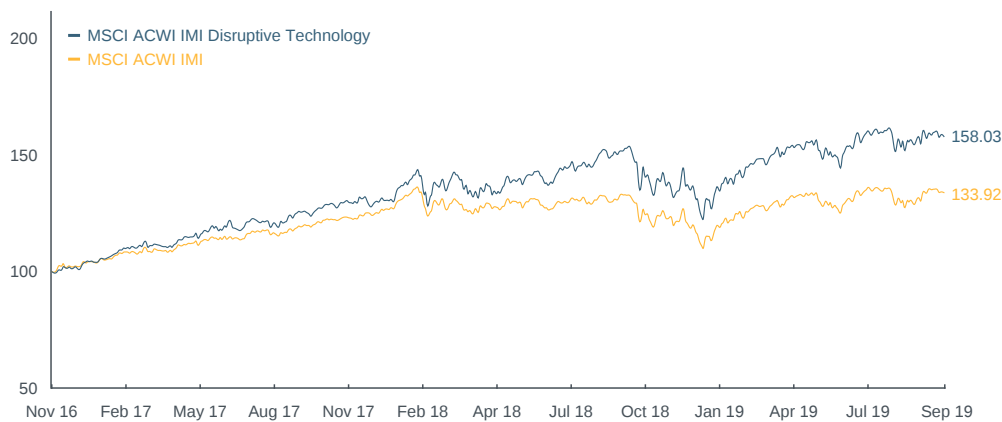


# MSCI ACWI IMI DISRUPTIVE TECHNOLOGY INDEX (USD)

The MSCI ACWI IMI Disruptive Technology Index is based on the MSCI ACWI IMI Index, its parent index, and includes large, mid and small-cap securities across 23 Developed Markets (DM) and 26 Emerging Markets (EM) countries\*. The index aims to represent the performance of companies aligned to themes commonly associated with or described as “disruptive technology”.

## CUMULATIVE INDEX PERFORMANCE - GROSS RETURNS (USD) (NOV 2016 – SEP 2019)



## ANNUAL PERFORMANCE (%)

Year	MSCI ACWI IMI Disruptive Technology	MSCI ACWI IMI
2018	0.09	-9.61
2017	29.08	24.58

## INDEX PERFORMANCE — GROSS RETURNS (%) (SEP 30, 2019)

	1 Mo	3 Mo	1 Yr	YTD	ANNUALIZED				Since Nov 30, 2016
					3 Yr	5 Yr	10 Yr		
MSCI ACWI IMI Disruptive Technology	0.96	0.45	3.19	20.90	na	na	na	17.53	
MSCI ACWI IMI	2.14	-0.05	1.03	16.37	na	na	na	10.86	

## FUNDAMENTALS (SEP 30, 2019)

	Div Yld (%)	P/E	P/E Fwd	P/BV
MSCI ACWI IMI Disruptive Technology	1.36	29.89	20.58	5.43
MSCI ACWI IMI	2.48	18.18	15.39	2.19

## INDEX RISK AND RETURN CHARACTERISTICS (NOV 30, 2016 – SEP 30, 2019)

	Beta	Tracking Error (%)	Turnover (%) <sup>1</sup>	ANNUALIZED STD DEV (%) <sup>2</sup>			SHARPE RATIO <sup>2,3</sup>			Since Nov 30, 2016	MAXIMUM DRAWDOWN	
				3 Yr	5 Yr	10 Yr	3 Yr	5 Yr	10 Yr		(%)	Period YYYY-MM-DD
MSCI ACWI IMI Disruptive Technology	1.07	5.19	5.93	na	na	na	na	na	na	1.14	20.22	2018-10-01—2018-12-25
MSCI ACWI IMI	1.00	0.00	2.75	na	na	na	na	na	na	0.79	19.36	2018-01-26—2018-12-25

<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 include: Australia, Austria, Belgium, Canada, Denmark, Finland, France, Germany, Hong Kong, Ireland, Israel, Italy, Japan, Netherlands, New Zealand, Norway, Portugal, Singapore, Spain, Sweden, Switzerland, the UK and the US. EM countries include: Argentina, Brazil, Chile, China, Colombia, Czech Republic, Egypt, Greece, Hungary, India, Indonesia, Korea, Malaysia, Mexico, Pakistan, Peru, Philippines, Poland, Qatar, Russia, Saudi Arabia, South Africa, Taiwan, Thailand, Turkey and United Arab Emirates.

The MSCI ACWI IMI Disruptive Technology Index was launched on Sep 23, 2019. 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.

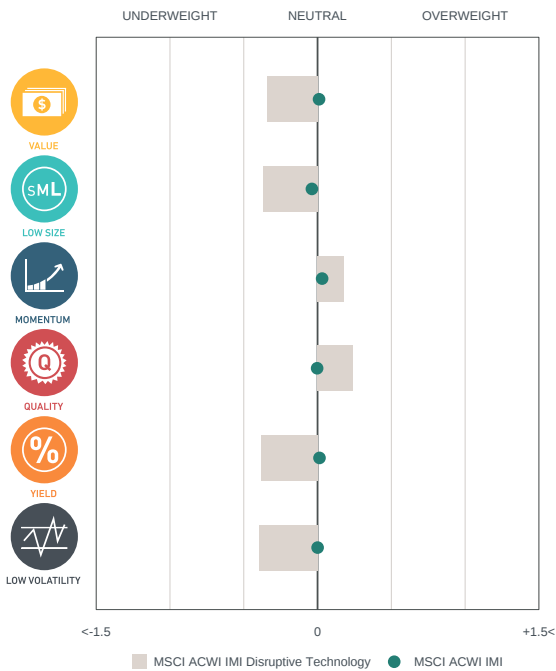
### INDEX CHARACTERISTICS

	MSCI ACWI IMI Disruptive Technology	MSCI ACWI IMI
Number of Constituents	498	8,820
	Weight (%)	
Largest	5.29	1.94
Smallest	0.00	0.00
Average	0.20	0.01
Median	0.02	0.00

### TOP 10 CONSTITUENTS

	Country	Index Wt. (%)	Parent Index Wt. (%)	Sector
MICROSOFT CORP	US	5.29	1.90	Info Tech
ROCHE HOLDING GENUSS	CH	5.21	0.39	Health Care
MASTERCARD A	US	5.14	0.46	Info Tech
VISA A	US	5.04	0.56	Info Tech
TAIWAN SEMICONDUCTOR MFG	TW	4.68	0.41	Info Tech
MEDTRONIC PLC	US	3.43	0.27	Health Care
SALESFORCE.COM	US	3.00	0.23	Info Tech
PAYPAL HOLDINGS	US	2.94	0.22	Info Tech
JOHNSON & JOHNSON	US	2.92	0.65	Health Care
ORACLE CORP	US	2.81	0.25	Info Tech
<b>Total</b>		<b>40.46</b>	<b>5.34</b>	

### FACTORS - KEY EXPOSURES THAT DRIVE RISK AND RETURN MSCI FACTOR BOX



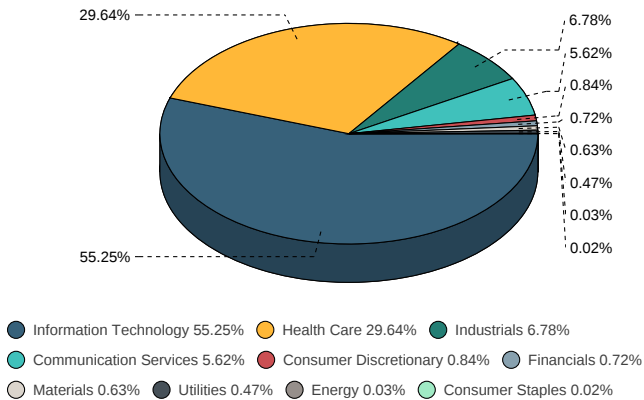
### MSCI FaCS

- 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

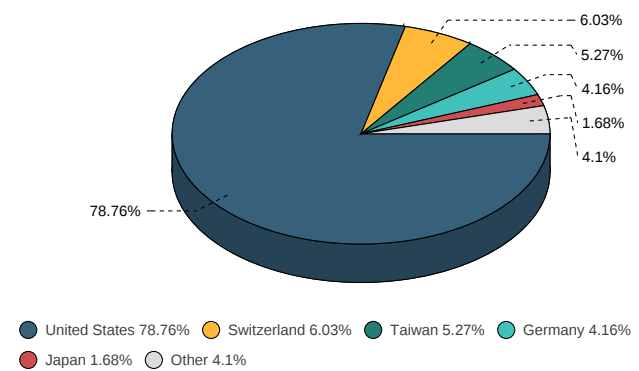
MSCI FaCS provides absolute factor exposures relative to a broad global index - MSCI ACWI IMI.

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

### SECTOR WEIGHTS



### COUNTRY WEIGHTS



## INDEX METHODOLOGY

The Index includes companies from the parent universe which are determined to have high exposure to business activities such as – 3D Printing, internet of things, cloud computing, fin-tech, digital payments, healthcare innovation, robotics, cyber security, clean energy and smart grids.

The Index is reviewed on Semi-Annual basis in May and November to coincide with the May and November Semi-Annual Index Review of the Parent Index, and the changes are implemented at the end of May and November, respectively.

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

The information contained herein (the "Information") may not be reproduced or disseminated in whole or in part without prior written permission from MSCI. The Information may not be used to verify or correct other data, to create indexes, risk models, or analytics, or in connection with issuing, offering, sponsoring, managing or marketing any securities, portfolios, financial products or other investment vehicles. Historical data and analysis should not be taken as an indication or guarantee of any future performance, analysis, forecast or prediction. None of the Information or MSCI index or other product or service constitutes an offer to buy or sell, or a promotion or recommendation of, any security, financial instrument or product or trading strategy. Further, none of the Information or any MSCI index is intended to constitute investment advice or a recommendation to make (or refrain from making) any kind of investment decision and may not be relied on as such. The Information is provided "as is" and the user of the Information assumes the entire risk of any use it may make or permit to be made of the Information. NONE OF MSCI INC. OR ANY OF ITS SUBSIDIARIES OR ITS OR THEIR DIRECT OR INDIRECT SUPPLIERS OR ANY THIRD PARTY INVOLVED IN THE MAKING OR COMPILING OF THE INFORMATION (EACH, AN "MSCI PARTY") MAKES ANY WARRANTIES OR REPRESENTATIONS AND, TO THE MAXIMUM EXTENT PERMITTED BY LAW, EACH MSCI PARTY HEREBY EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. WITHOUT LIMITING ANY OF THE FOREGOING AND TO THE MAXIMUM EXTENT PERMITTED BY LAW, IN NO EVENT SHALL ANY OF THE MSCI PARTIES HAVE ANY LIABILITY REGARDING ANY OF THE INFORMATION FOR ANY DIRECT, INDIRECT, SPECIAL, PUNITIVE, CONSEQUENTIAL (INCLUDING LOST PROFITS) OR ANY OTHER DAMAGES EVEN IF NOTIFIED OF THE POSSIBILITY OF SUCH DAMAGES. The foregoing shall not exclude or limit any liability that may not be applicable law be excluded or limited.

© 2019 MSCI Inc. All rights reserved.