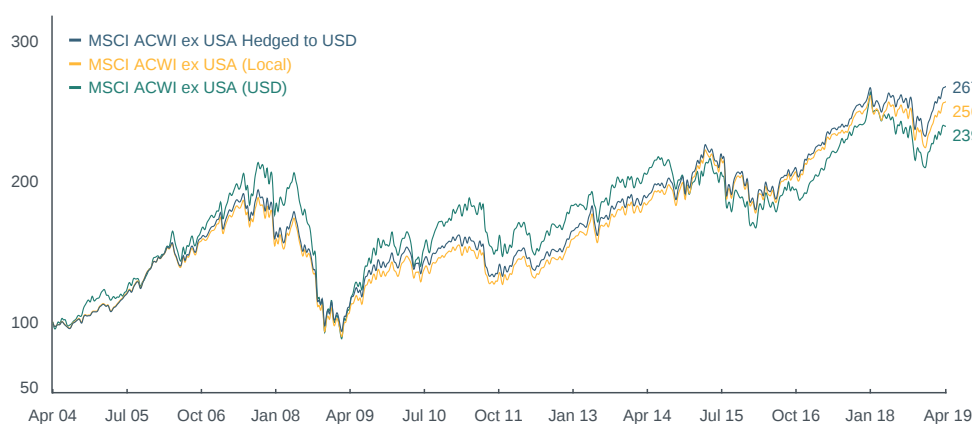


MSCI ACWI EX USA 100% HEDGED TO USD INDEX (USD)

The MSCI ACWI ex USA 100% Hedged to USD Index represents a close estimation of the performance that can be achieved by hedging the currency exposures of its parent index, the MSCI ACWI ex USA Index, to the USD, the "home" currency for the hedged index. The index is 100% hedged to the USD by selling each foreign currency forward at the one-month Forward weight. The parent index is composed of large and mid cap stocks across 22 Developed Markets (DM) countries and 24 Emerging Markets (EM) countries*.

CUMULATIVE INDEX PERFORMANCE - NET RETURNS (USD) (APR 2004 – APR 2019)



ANNUAL PERFORMANCE (%)

Year	MSCI ACWI ex USA Hedged to USD	MSCI ACWI ex USA (Local)	MSCI ACWI ex USA (USD)
2018	-9.26	-10.65	-14.20
2017	18.95	18.23	27.19
2016	7.13	7.02	4.50
2015	1.12	1.86	-5.66
2014	5.15	6.05	-3.87
2013	19.11	20.05	15.29
2012	15.72	16.32	16.83
2011	-12.51	-12.16	-13.71
2010	7.84	7.64	11.15
2009	32.44	31.75	41.45
2008	-40.42	-40.89	-45.53
2007	10.07	8.53	16.65
2006	20.37	18.14	26.65
2005	29.84	29.52	16.62

INDEX PERFORMANCE — NET RETURNS (%) (APR 30, 2019)

	1 Mo	3 Mo	1 Yr	YTD	ANNUALIZED			
					3 Yr	5 Yr	10 Yr	Since Dec 29, 2000
MSCI ACWI ex USA Hedged to USD	3.30	7.85	3.35	14.69	10.92	6.99	8.87	4.30
MSCI ACWI ex USA (Local)	3.19	7.49	1.61	14.06	9.95	6.69	8.89	4.28
MSCI ACWI ex USA (USD)	2.64	5.27	-3.23	13.22	8.09	2.83	7.75	4.73

INDEX RISK AND RETURN CHARACTERISTICS (DEC 29, 2000 – APR 30, 2019)

	ANNUALIZED STD DEV (%) ¹			SHARPE RATIO ^{1,2}			Since Dec 29, 2000	MAXIMUM DRAWDOWN (%)	MAXIMUM DRAWDOWN Period YYYY-MM-DD
	3 Yr	5 Yr	10 Yr	3 Yr	5 Yr	10 Yr			
MSCI ACWI ex USA Hedged to USD	8.75	9.95	11.13	1.07	0.64	0.77	0.25	53.26	2007-10-31—2009-03-09
MSCI ACWI ex USA (Local)	8.80	9.96	11.13	0.96	0.61	0.77	0.25	53.80	2007-10-11—2009-03-09
MSCI ACWI ex USA (USD)	10.56	12.05	15.23	0.66	0.21	0.53	0.26	60.83	2007-10-31—2009-03-09

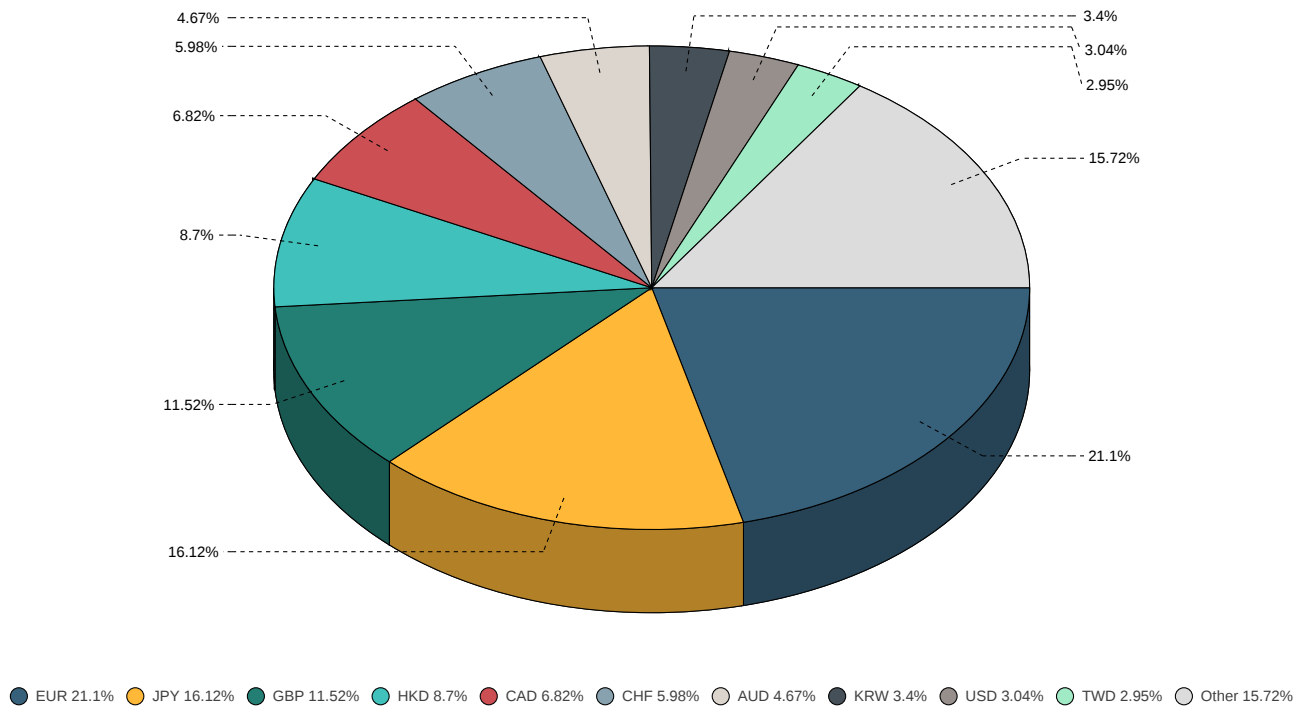
¹ Based on monthly net returns data

² 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 and the UK. EM countries include: Brazil, Chile, China, Colombia, Czech Republic, Egypt, Greece, Hungary, India, Indonesia, Korea, Malaysia, Mexico, Pakistan, Peru, Philippines, Poland, Qatar, Russia, South Africa, Taiwan, Thailand, Turkey and United Arab Emirates.

The MSCI ACWI ex USA 100% Hedged to USD Index was launched on Nov 26, 2013. 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.

CURRENCY WEIGHTS (APR 30, 2019)



INDEX METHODOLOGY

The MSCI Hedged Indexes hedge each foreign currencies in the parent index back to a "home" currency by selling each foreign currency forward at the one-month Forward rate. The amount of forwards sold on the last business day of the month corresponds to the market cap weight of the securities in the parent index that are quoted in each currency as of the close of two business days before the first calendar day of the following month. The amount hedged is kept constant over the whole month.

There are two components to a MSCI Hedged Index return: 1) the performance of the unhedged index in the home currency; and, 2) the Hedge Impact (aimed to represent the gain or loss on the Forward contracts) in the home currency. For example, if a US-based investor were to invest in the MSCI EAFE Index, the calculation would combine the unhedged MSCI EAFE index return in US dollars (USD) with the performance impact of hedging the currency exposure of the 12 other foreign currencies of the MSCI EAFE Index relative to the USD.

ABOUT MSCI

For more than 40 years, MSCI' research-based indexes and analytics have helped the world' leading investors build and manage better portfolios. Clients rely on our offerings for deeper insights into the drivers of performance and risk in their portfolios, broad asset class coverage and innovative research. Our line of products and services includes indexes, analytical models, data, real estate benchmarks and ESG research. MSCI serves 99 of the top 100 largest money managers, according to the most recent P&I ranking. For more information, visit us at 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.