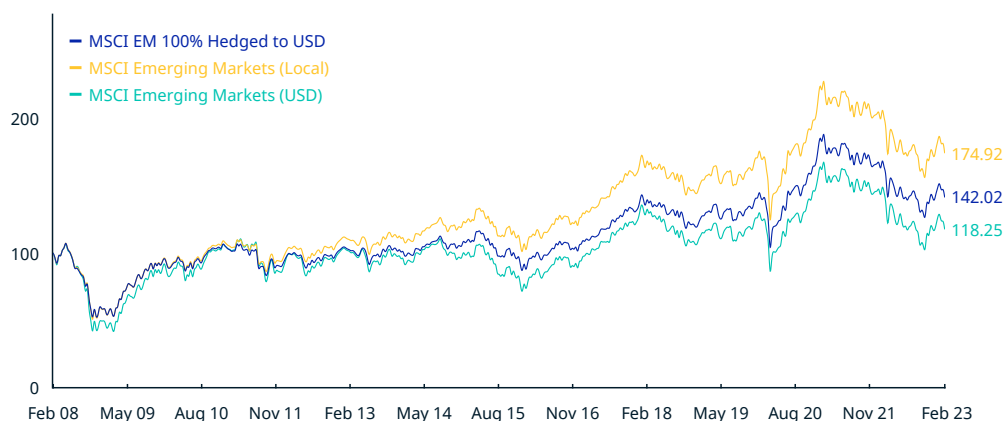


# MSCI Emerging Markets 100% Hedged to USD Index (USD)

The MSCI Emerging Markets (EM) 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 EM 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 24 Emerging Markets (EM) countries\* and its local performance is calculated in different currencies.

## CUMULATIVE INDEX PERFORMANCE – NET RETURNS (USD) (FEB 2008 – FEB 2023)



## ANNUAL PERFORMANCE (%)

Year	MSCI EM 100% Hedged to USD	MSCI Emerging Markets (Local)	MSCI Emerging Markets (USD)
2022	-16.28	-15.54	-20.09
2021	-1.33	-0.19	-2.54
2020	19.58	19.12	18.31
2019	17.70	18.05	18.42
2018	-10.34	-10.07	-14.57
2017	28.56	30.55	37.28
2016	7.50	9.69	11.19
2015	-8.22	-5.76	-14.92
2014	2.08	5.17	-2.19
2013	0.59	3.44	-2.60
2012	14.01	16.99	18.22
2011	-14.39	-12.74	-18.42
2010	12.27	14.10	18.88
2009	60.55	62.29	78.51

## INDEX PERFORMANCE – NET RETURNS (%) (FEB 28, 2023)

	1 Mo	3 Mo	1 Yr	YTD	ANNUALIZED			
					3 Yr	5 Yr	10 Yr	Since Dec 29, 2000
MSCI EM 100% Hedged to USD	-4.59	-0.45	-11.21	1.66	2.59	0.65	3.28	6.73
MSCI Emerging Markets (Local)	-4.65	-0.45	-10.51	1.58	3.13	1.08	4.70	8.71
MSCI Emerging Markets (USD)	-6.48	-0.52	-15.28	0.90	0.97	-1.87	1.52	7.43

## INDEX RISK AND RETURN CHARACTERISTICS (DEC 29, 2000 – FEB 28, 2023)

	ANNUALIZED STD DEV (%) <sup>1</sup>			SHARPE RATIO <sup>1,2</sup>			Since Dec 29, 2000	MAXIMUM DRAWDOWN	
	3 Yr	5 Yr	10 Yr	3 Yr	5 Yr	10 Yr		(%)	Period YYYY-MM-DD
MSCI EM 100% Hedged to USD	17.41	15.53	13.28	0.18	0.03	0.24	0.37	56.10	2007-10-29–2008-10-27
MSCI Emerging Markets (Local)	17.47	15.57	13.30	0.21	0.06	0.34	0.49	57.97	2007-10-29–2008-10-27
MSCI Emerging Markets (USD)	20.98	18.91	17.00	0.11	-0.08	0.12	0.37	65.25	2007-10-29–2008-10-27

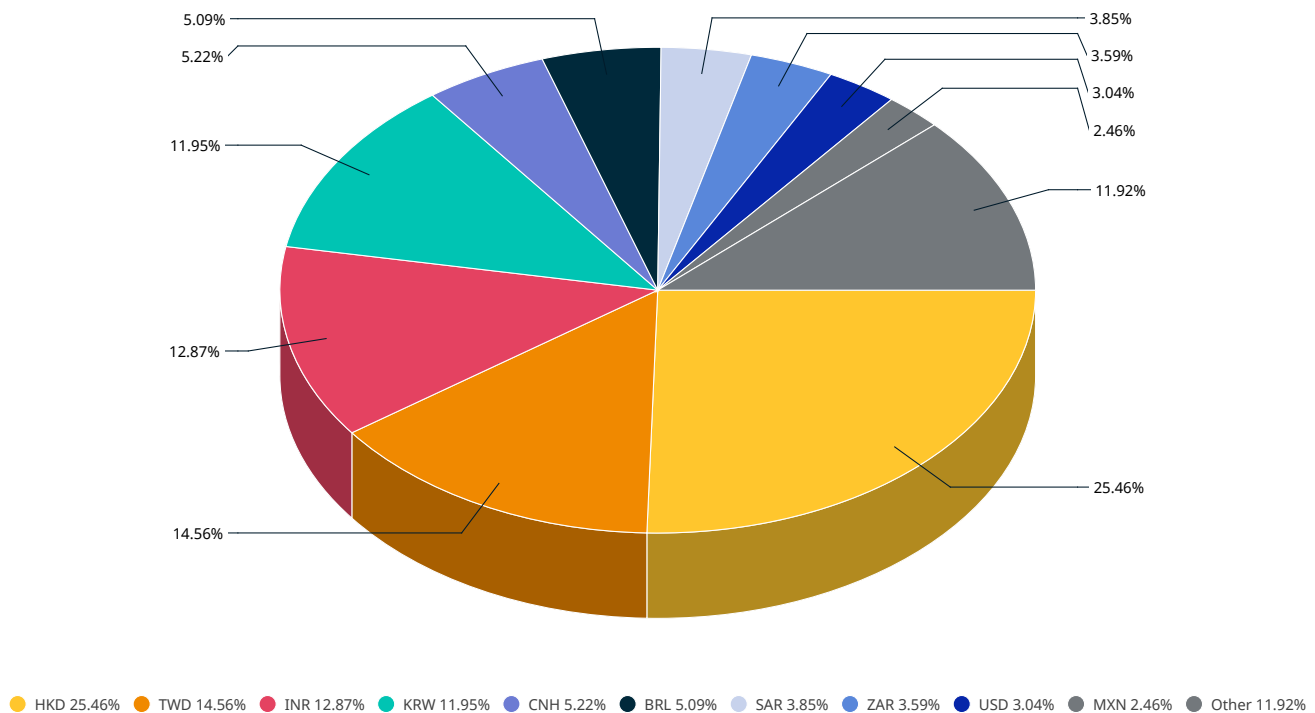
<sup>1</sup> Based on monthly net returns data

<sup>2</sup> Based on NY FED Overnight SOFR from Sep 1 2021 & on ICE LIBOR 1M prior that date

\* EM countries include: Brazil, Chile, China, Colombia, Czech Republic, Egypt, Greece, Hungary, India, Indonesia, Korea, Kuwait, Malaysia, Mexico, Peru, Philippines, Poland, Qatar, Saudi Arabia, South Africa, Taiwan, Thailand, Turkey and United Arab Emirates.

The MSCI Emerging Markets 100% Hedged to USD Index was launched on Jul 02, 2012. 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.

**CURRENCY WEIGHTS ( FEB 28, 2023 )**



**INDEX FRAMEWORK**

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.

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](#).

**ABOUT MSCI**

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