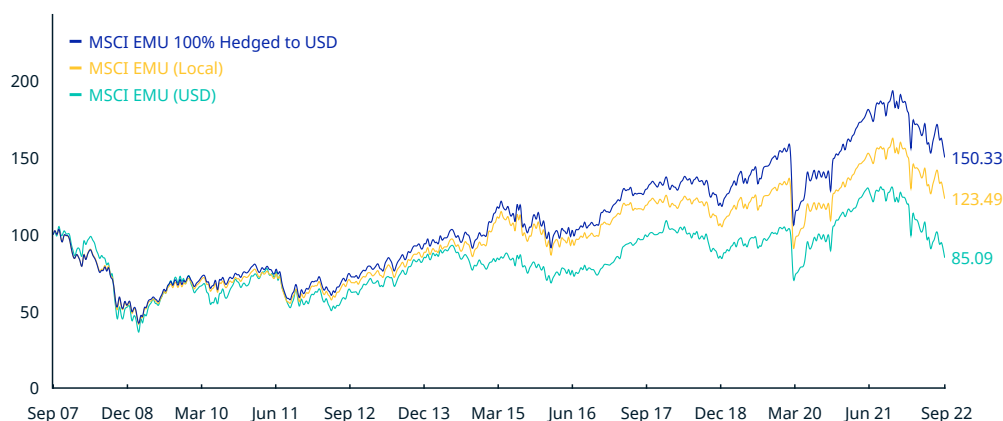


MSCI EMU 100% Hedged to USD Index (USD)

The MSCI EMU (European Economic and Monetary Union) 100% Hedged to USD Index represents a close estimation of the performance that can be achieved by hedging the currency exposure of its parent index, the MSCI EMU Index, to the USD, the "home" currency for the hedged index. The index is 100% hedged to the USD by selling the EUR forward at the one-month Forward rate. The parent index is composed of large and mid cap stocks across 10 Developed Markets (DM) countries*.

CUMULATIVE INDEX PERFORMANCE – NET RETURNS (USD) (SEP 2007 – SEP 2022)



ANNUAL PERFORMANCE (%)

Year	MSCI EMU 100% Hedged to USD	MSCI EMU (Local)	MSCI EMU (USD)
2021	23.24	22.14	13.54
2020	0.96	-1.00	7.89
2019	29.21	25.45	23.20
2018	-10.05	-12.75	-16.90
2017	14.69	12.63	28.06
2016	6.00	4.33	1.34
2015	8.88	9.82	-1.42
2014	4.60	4.32	-8.39
2013	24.12	23.36	28.94
2012	20.67	19.31	21.17
2011	-14.71	-14.89	-17.64
2010	4.50	2.40	-4.25
2009	28.48	27.32	31.41
2008	-44.32	-44.85	-47.57

INDEX PERFORMANCE – NET RETURNS (%) (SEP 30, 2022)

	1 Mo	3 Mo	1 Yr	YTD	ANNUALIZED			
					3 Yr	5 Yr	10 Yr	Since Jan 31, 2001
MSCI EMU 100% Hedged to USD	-5.91	-3.80	-16.12	-20.88	1.38	2.71	7.73	2.65
MSCI EMU (Local)	-6.32	-4.55	-18.01	-22.39	-0.46	0.43	6.20	1.79
MSCI EMU (USD)	-8.73	-10.53	-30.66	-33.11	-3.94	-3.26	3.35	2.03

INDEX RISK AND RETURN CHARACTERISTICS (JAN 31, 2001 – SEP 30, 2022)

	ANNUALIZED STD DEV (%) ¹			SHARPE RATIO ^{1,2}			Since Jan 31, 2001	MAXIMUM DRAWDOWN	
	3 Yr	5 Yr	10 Yr	3 Yr	5 Yr	10 Yr		(%)	Period YYYY-MM-DD
MSCI EMU 100% Hedged to USD	20.18	17.50	15.42	0.14	0.17	0.51	0.15	59.47	2001-01-31–2003-03-12
MSCI EMU (Local)	20.23	17.56	15.48	0.05	0.04	0.42	0.10	60.13	2007-07-16–2009-03-09
MSCI EMU (USD)	23.43	20.36	17.77	-0.08	-0.12	0.23	0.13	64.66	2007-10-31–2009-03-09

¹ Based on monthly net returns data

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

* Developed Market countries in the EMU include: Austria, Belgium, Finland, France, Germany, Ireland, Italy, the Netherlands, Portugal and Spain.

The MSCI EMU 100% Hedged to USD Index was launched on Jun 30, 2001. 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.

INDEX FRAMEWORK

The MSCI Hedged Indexes hedge each foreign currency 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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