

# MSCI EXCESS RETURN INDEXES METHODOLOGY

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# 1 Introduction

The MSCI Excess Return Indexes are designed to represent the performance of an investment strategy tracking a given MSCI index after deducting borrowing cost.



# **2** Constructing the Index

## 2.1 OVERVIEW

The MSCI Excess Return Indexes are designed to represent the performance of an investment strategy tracking a given MSCI index ("Parent Index") after deducting borrowing cost.

## 2.2 CALCULATION FORMULA

The MSCI Excess Return Index level is calculated in accordance with the following formula:

$$ER_t = ER_{t-1} * \left(\frac{UI_t}{UI_{t-1}} - CR_{t-1} * \frac{ACT(t-1,t)}{Day\ Count}\right)$$

where:

 $ER_t$  = Excess Return Index on business day t

 $UI_t$  = Index Value of the Parent Index<sup>1</sup> on business day t

 $CR_{t-1}$  = Short-term rate<sup>2</sup> published on the previous business day t-1

Day Count = Day count convention used by the short-term rate

ACT(t-1,t) = number of actual calendar days between business day t-1 and t

<sup>&</sup>lt;sup>1</sup> The Parent Index can be a Price, Net or Gross Total Return Index

<sup>&</sup>lt;sup>2</sup> Refer to Appendix 1 for more information on short-term rates



# 3 Maintaining the Index

The MSCI Excess Return Indexes are derived from the existing underlying MSCI Parent Indexes. As a result, corporate events are reflected in the MSCI Excess Return Indexes as they occur and as they are captured in the underlying MSCI Parent Index.



# 4 Appendix 1

The MSCI Excess Return Indexes Methodology uses the below short-term rates for the borrowing cost calculation.

Currency	USD	GBP	EURO	CHF	JPY
Short-term Rate	Overnight	Overnight	3-month	Overnight	3-month
	SOFR	SONIA	EURIBOR	SARON	TIBOR

The MSCI Excess Return Indexes Methodology may use other rates as applicable for the borrowing cost calculation.



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