

# MSCI FIXED INCOME ESG UNIVERSAL INDEXES METHODOLOGY

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# 1 Introduction

The MSCI Fixed Income ESG Universal Indexes (the 'Indexes') aim to represent the performance of an investment strategy that by re-weighting market value weights based upon certain ESG metrics seeks to increase exposure to those companies demonstrating both a robust ESG profile as well as a positive trend in improving that profile, while seeking to minimize exclusions from the parent index.

Institutional investors are increasingly looking for ways to integrate ESG into their investment decision-making process. By doing so, they mainly aim to mitigate long-term risks, generate higher risk-adjusted performance and/or align investments with the broader societal objectives. Historically, ESG integration index strategies have relied on an exclusionary approach whereby poor ESG performers would be screened out from an investment opportunity set. However, such approaches may be challenging for large asset owners to reconcile with their 'universal owner' position.

The MSCI Fixed Income ESG Universal Indexes are constructed in following steps. First, the issuers with the weakest ESG profile are excluded from an MSCI Corporate Bond Index (the 'Parent Index'). Second, an ESG re-weighting factor is defined that reflects an assessment of both the current ESG profile (based on the current MSCI ESG Rating – see section 3.3.1) as well as the trend in that profile (based on the MSCI ESG Rating Trend – see section 3.3.2). Finally, securities from the market value weights of the Parent Index are re-weighted using this combined ESG score to construct the MSCI Fixed Income ESG Universal Index.



# 2 MSCI ESG Research

The MSCI ESG Universal Indexes use company ratings and research provided by MSCI ESG Research LLC. In particular, these indexes use the following three MSCI ESG Research products: MSCI ESG Ratings, MSCI ESG Controversies and MSCI ESG Business Involvement Screening Research.

For details on MSCI ESG Research's full suite of ESG products, please refer to: <a href="https://www.msci.com/esg-investing">https://www.msci.com/esg-investing</a>

# 2.1 MSCI ESG Ratings

MSCI ESG Ratings provides research, analysis and ratings of how well companies manage environmental, social and governance risks and opportunities.

MSCI ESG Ratings provides an overall company ESG rating -a seven point scale from 'AAA' to 'CCC'. In addition, the product provides scores and percentiles indicating how well a company manages each key issue relative to industry peers.

For more details on MSCI ESG Ratings, please refer to: <a href="https://www.msci.com/esg-ratings">https://www.msci.com/esg-ratings</a>

#### 2.2 MSCI ESG Controversies

MSCI ESG Controversies (previously known as MSCI ESG Impact Monitor) provides assessments of controversies concerning the negative environmental, social, and/or governance impact of company operations, products and services. The evaluation framework used in MSCI ESG Controversies is designed to be consistent with international norms represented by the UN Declaration of Human Rights, the ILO Declaration on Fundamental Principles and Rights at Work, and the UN Global Compact. MSCI ESG Controversies Score falls on a 0-10 scale, with "0" being the most severe controversy.

For more details on MSCI ESG Controversies Score, please refer to: <a href="https://www.msci.com/documents/10199/acbe7c8a-a4e4-49de-9cf8-5e957245b86b">https://www.msci.com/documents/10199/acbe7c8a-a4e4-49de-9cf8-5e957245b86b</a>

# 2.3 MSCI ESG Business Involvement Screening Research

MSCI ESG Business Involvement Screening Research (BISR) aims to enable institutional investors to manage environmental, social and governance (ESG) standards and restrictions reliably and efficiently.

For more details on MSCI ESG Business Involvement Screening Research, please refer to http://www.msci.com/resources/factsheets/MSCI\_ESG\_BISR.pdf



# 3 Index Construction Methodology

# 3.1 Applicable Universe

The applicable universe includes all the existing constituents of the Parent Index. This approach aims to provide an opportunity set with sufficient liquidity and capacity.

# 3.2 Eligible Universe

The eligible universe is constructed by excluding securities based on the following criteria:

# 3.2.1 Unrated Companies

- Missing Controversy Score Companies not assessed by MSCI ESG Research on MSCI ESG Controversies.
- Missing ESG Rating Companies not rated by MSCI ESG Research for an ESG assessment.

# 3.2.2 Companies Having Faced Very Severe ESG Controversies

Companies having faced very severe controversies pertaining to ESG issues in the last three years – Defined as companies with an ESG Controversy Score of 0.

# 3.2.3 Companies Involved in Controversial Weapons Businesses

Companies involved in Controversial Weapons (i.e. cluster munitions, landmines, depleted uranium weapons, biological/chemical weapons, blinding lasers, non-detectable fragments and incendiary weapons). For more details on the controversial weapons exclusion, please refer to Appendix I.

# 3.3 Determination of Combined ESG Score

Each company in the eligible universe is assigned a Combined ESG score, which is calculated by taking into account a company's MSCI ESG Rating and its MSCI ESG Rating Trend.

# 3.3.1 ESG Rating Score

Using the MSCI ESG Rating, companies are grouped so as to assign an ESG Rating score to each company in the eligible universe as illustrated in the table below



Rating Group	ESG Rating	ESG Category	ESG Rating Score
1	AAA	Leaders	2
2	AA		2
3	А		1
4	BBB	Neutral	1
5	BB		1
6	В	Laggards	0.5
7	CCC	- 24994.40	0.5

# 3.3.2 ESG Rating Trend Score

MSCI ESG Rating Trend shows the ESG rating change from prior to current: it is expressed as the number of levels between the current rating and the previous rating. The rating trend is positive for a ratings upgrade (for example, the company's ESG rating changed from BBB to AAA), negative for ratings downgrade (for example company's ESG rating changed from AA to A) and zero for no change in the rating.

An 'ESG Rating Trend Score' is assigned to each company based on its ESG Rating Trend as per the following table

Trend group	ESG Rating Trend*	ESG Rating Trend Score
1	Upgrade	1.25
2	Neutral	1
3	Downgrade	0.75

#### \* ESG Rating Trend

 Upgrade – Company's latest ESG Rating has increased by at least one level compared to previous assessment.



- Neutral Company's latest ESG Rating has stayed the same as its ESG Rating from previous assessment or MSCI ESG Research has initiated coverage on the company.
- Downgrade Company's latest ESG Rating has decreased by at least one level compared to its previous assessment.

#### 3.3.3 Combined ESG Score

The Combined ESG Score is calculated for each company as follows:

Combined ESG Score = ESG Rating Score \* ESG Trend Score.

#### 3.3.3.1 Combined ESG Score Capping

In order to reduce reverse turnover in the index, the Combined ESG Score of a security is capped between the ESG Rating Scores corresponding to MSCI ESG Rating of 'AAA' (best rating) and 'CCC' (worst rating).

For example – If in year 1 a company is upgraded to AAA from BBB, then the weight of the company in the index will increase in year 1. However, if the company maintains its rating at AAA in year 2 then since the rating cannot improve beyond AAA, the index would otherwise need to decrease the weight of that company (as the company's uncapped Combined ESG Score in year 2 will be less than the Combined ESG Score in year 1).

Similarly, in year 2, the index would otherwise need to increase the weight of a company in year 2 which was downgraded to CCC rating (the worst possible rating) in year 1 and then maintained its rating at CCC in year 2.

# 3.4 Weighting Scheme

At each rebalancing, all the securities from the eligible universe are weighted by the product of their market value weight in the Parent Index and the Combined ESG Score.

Security Weight = Combined ESG Score \* Market Value Weight in the Parent Index

The above weights are then re-normalized to 100%.

Additionally, constituent weights are capped at 5% at the issuer level to mitigate concentration risk:

Note that the capping of the issuer weight is done for the pro forma index as of the effective date, based on the closing prices as of the index review announcement date. In cases where the issuer weight breaches the cap as a result of market price movements or corporate events between the announcement date and the effective date, the capping is not applied again. Similarly, even if any issuer weight breaches the



cap as a result of market price movements or corporate events between two monthly reviews, no capping is applied.



# 4 Maintaining the MSCI ESG Universal Indexes

# 4.1 Monthly Index Reviews

The Indexes are rebalanced on a monthly basis, as of the close of the last business day of the month, coinciding with the monthly index review of the MSCI Corporate Bond Indexes. The pro forma Indexes are in general announced three business days before the effective date.

In general, MSCI uses latest available MSCI ESG Research data (including MSCI ESG Ratings, MSCI ESG Controversies Scores and MSCI Business Involvement Screening Research) preceding the Index Reviews for the rebalancing of MSCI ESG Universal indexes.



# Appendix I: Companies Involved in Controversial Weapons Business

Companies which meet the following Controversial Weapons criteria are excluded from the Index

#### Cluster Bombs

MSCI ESG Research's cluster bomb research identifies public companies that are involved in the production of cluster bombs and munitions, or the essential components of these products.

#### Landmines

MSCI ESG Research's landmines research identifies public companies that are involved in the production of anti - personnel landmines, anti - vehicle landmines, or the essential components of these products.

#### Depleted Uranium Weapons

MSCI ESG Research's depleted uranium weapons research identifies public companies involved in the production of depleted uranium weapons and armor.

#### Chemical and Biological Weapons

MSCI ESG Research's chemical and biological weapons research identifies public companies that are involved in the production of chemical and biological weapons, or the essential components of these products.

#### Blinding Laser Weapons

MSCI ESG Research's blinding laser weapons research identifies public companies that are involved in the production of weapons utilizing laser technology to cause permanent blindness.

#### Non-Detectable Fragments

MSCI ESG Research's non-detectable fragments research identifies public companies that are involved in the production of weapons that use non-detectable fragments to inflict injury.

# • Incendiary Weapons (White Phosphorus)

MSCI ESG Research's incendiary weapons research identifies companies that are involved in the production of weapons using white phosphorus.



#### Involvement criteria:

- Producers of the weapons
- Producers of key components of the weapons (only applies to cluster bombs, landmines, depleted uranium weapons as well as chemical and biological weapons)
- Ownership of 20% or more of a weapons or components producer
   The minimum limit is raised to 50% for financial companies having an ownership in a company that manufactures controversial weapons or key components of controversial weapons
- Owned 50% or more by a company involved in weapons or components production

# Revenue limits:

Any identifiable revenues, i.e., zero tolerance



# **Contact us**

#### **AMERICAS**

clientservice@msci.com

Americas	1 888 588 4567 *
Atlanta	+ 1 404 551 3212
Boston	+ 1 617 532 0920
Chicago	+ 1 312 675 0545
Monterrey	+ 52 81 1253 4020
New York	+ 1 212 804 3901
San Francisco	+ 1 415 836 8800
São Paulo	+ 55 11 3706 1360
Toronto	+ 1 416 628 1007

# **EUROPE, MIDDLE EAST & AFRICA**

Cape Town	+ 27 21 673 0100
Frankfurt	+ 49 69 133 859 00
Geneva	+ 41 22 817 9777
London	+ 44 20 7618 2222
Milan	+ 39 02 5849 0415
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#### **ASIA PACIFIC**

China North	10800 852 1032 *
China South	10800 152 1032 *
Hong Kong	+ 852 2844 9333
Mumbai	+ 91 22 6784 9160
Seoul	00798 8521 3392 *
Singapore	800 852 3749 *
Sydney	+ 61 2 9033 9333
Taipei	008 0112 7513 *
Thailand	0018 0015 6207 7181 *
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<sup>\* =</sup> toll free

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