

MSCI Global ex Controversial Weapons Indexes Methodology

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1 Introduction

The MSCI Global ex Controversial Weapons Indexes have been developed for use by investors, including pension funds, and universal owners who wish to avoid investments in cluster bombs, landmines, depleted uranium, chemical and biological weapons, blinding laser weapons, non-detectable fragments and incendiary weapons (white phosphorus).

These indexes are free float-adjusted market capitalization weighted.

2 MSCI ESG Research

The MSCI Global ex Controversial Weapons Indexes use the MSCI ESG Business Involvement Screening Research (BISR) provided by MSCI ESG 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 Screening Criteria

The MSCI Global ex Controversial Weapons Indexes exclude companies involved in:

- Cluster Bombs
- Landmines
- Depleted Uranium Weapons
- Chemical and Biological Weapons
- Blinding Laser Weapons
- Non-Detectable Fragments
- Incendiary Weapons (White Phosphorus)

Please refer to Appendix 1 for more details on these criteria.

4 Constructing the MSCI Global ex Controversial Weapons Indexes

4.1 Underlying Universe

The selection universe for the MSCI Global ex Controversial Weapons Indexes is defined by the constituents of the MSCI Global Investable Market Indexes (GIMI).

4.2 Exclusion Criteria

Companies that are involved in controversial weapons as described in the screening criteria in Section 2 are excluded from the MSCI Global ex Controversial Weapons Indexes.

5 Maintaining the MSCI Global ex Controversial Weapons Indexes

5.1 Index Reviews

The MSCI Global ex Controversial Weapons Indexes are reviewed on a quarterly basis to coincide with the regular Semi-Annual and Quarterly Index Reviews of the MSCI Global Investable Market Indexes. The changes are implemented as of the close of the last business day of February, May, August and November. At index reviews, all companies in the underlying universe are reviewed and eligible companies are added to the MSCI Global ex Controversial Weapons Indexes. Existing constituents may be deleted from the MSCI Global ex Controversial Weapons Indexes if they become involved in controversial weapons and are screened according to the criteria described in Section 3. Any constituent that is deleted from the Parent index as a result of an index review is also deleted from the MSCI Global ex Controversial Weapons Indexes.

The pro forma MSCI Global ex Controversial Weapons Indexes are generally announced nine business days before the effective date.

In general, MSCI uses MSCI ESG Research data (MSCI ESG Business Involvement Screening Research) as of the end of the month preceding the Index Reviews for the rebalancing of the MSCI Global ex Controversial Weapons Indexes. For some securities, such data may not be published by MSCI ESG Research by the end of the month preceding the Index Review. For such securities, MSCI will use ESG data published after the end of month, when available, for the rebalancing of the MSCI Global ex Controversial Weapons Indexes.

5.2 Ongoing Event-Related Maintenance

The following section briefly describes the treatment of common corporate events within the MSCI Global ex Controversial Weapons Indexes.

No new securities will be added (except where noted below) to the Index between Index Reviews. Parent Index deletions will be reflected simultaneously.

There are no deletions from the Index between Index Reviews on account of a security becoming involved in controversial weapons.

EVENT TYPE

New additions to the Parent Index

EVENT DETAILS

New securities added to the Parent Index (such as IPOs, other early inclusions and migrations from a

different size-segment) will not be added to the Index at the time of event implementation. Such securities will be considered for addition in the Index at the subsequent Index Review.

Spin-Offs

All securities created as a result of the spin-off of an existing Index constituent will not be added to the Index at the time of event implementation. Reevaluation for addition in the Index will occur at the subsequent Index Review.

Merger/Acquisition

If an existing Index constituent is acquired by a non-Index constituent, the existing constituent will be deleted from the Index and the acquiring non-constituent will not be added to the Index.

Changes in Security Characteristics

A security will continue to be an Index constituent if there are changes in characteristics (country, sector, size segment, etc.). Reevaluation for continued inclusion in the Index will occur at the subsequent Index Review.

Further detail and illustration regarding specific treatment of corporate events relevant to this Index can be found in the MSCI Corporate Events Methodology book.

The MSCI Corporate Events methodology book is available at:

<https://www.msci.com/index-methodology>

Appendix 1: Controversial Weapons Criteria

The MSCI Global ex Controversial Weapons Indexes exclude companies involved in:

- **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

The following sections have been modified as of November 2014:

Section 4.2: Ongoing Event-Related Maintenance

- Clarification of treatment of corporate events

The following sections have been modified as of May 2017:

Section 4: Maintaining the MSCI Global ex Controversial Weapons Indexes

- Clarification on use of ESG data for securities whose data would be available after the end of the month preceding Index Review.

The following sections have been modified as of September 2017:

Section 4.1: Index Reviews

- Updated to include the announcement date of the pro forma indexes.

Section 4.2: Ongoing event-related maintenance

- Updated link to the MSCI Corporate Events Methodology

The following sections have been modified as of May 2018:

Section 1: Introduction

Section 2: Screening Criteria

Appendix 1: Controversial Weapons Criteria

- Updated to reflect the addition of new screens for blinding lasers, non-detectable fragments and incendiary weapons (while phosphorus)

The following sections have been modified as of November 2019:

Section 2: MSCI ESG Research

- New section

Section 4.1: Underlying Universe

- Updated to refer to the MSCI Global Investable Market Indexes

Section 4.3: Index Construction

- Removed the section

Section 5.2: Ongoing Event-Related Maintenance

- Clarified the treatment of different types of corporate events

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