**Ground Rules** 

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# FTSE Eurozone Highest-rated Government Bond Index Series

v3.2



lseg.com/en/ftse-russell

# Contents

Section 1 Introduction	3
Section 2 Management responsibilities	5
Section 3 FTSE Russell index policies	6
Section 4 Eligibility criteria	8
Section 5 Price sources	9
Section 6 Index rebalancing	10
Appendix A Calculations	11
Appendix B Further information	15

# Section 1 Introduction

## 1. Introduction

#### 1.1 FTSE Eurozone Index Structure

- 1.1.1 FTSE Eurozone Indices<sup>1</sup> are a set of benchmarks for the European sovereign bond market. The indices are calculated and distributed by FTSE Russell, using pricing data from the Refinitiv Evaluated Pricing Service (REPS)<sup>2</sup>.
- 1.2 The FTSE Eurozone Highest-Rated Government Bond Index Series does not take account of ESG factors in its index design.

#### 1.3 IOSCO

1.3.1 FTSE International Limited (FTSE) considers that the FTSE Eurozone Highest Rated Government Bond Index Series (the Index Series) meets the IOSCO Principles for Financial Benchmarks as published in July 2013.

Full details can be accessed at www.iosco.org.

Details of FTSE Russell's Statement of Compliance with respect to the IOSCO Principles can be accessed through the following link:

**IOSCO Statement of Compliance** 

- 1.4 FTSE Russell hereby notifies users of the index that it is possible that circumstances, including external events beyond the control of FTSE Russell, may necessitate changes to, or the cessation of, the index and therefore, any financial contracts or other financial instruments that reference the index or investment funds which use the index to measure their performance should be able to withstand, or otherwise address the possibility of changes to, or cessation of, the index.
- 1.5 Index users who choose to follow this index or to buy products that claim to follow this index should assess the merits of the index's rules-based methodology and take independent investment advice before investing their own or client funds. No liability whether as a result of negligence or otherwise is accepted by FTSE Russell nor its group companies (or any person concerned with the preparation or publication of these Ground Rules) for any losses, damages, claims and expenses suffered by any person as a result of:
  - any reliance on these Ground Rules, and/or
  - any inaccuracies in these Ground Rules, and/or
  - any non-application or misapplication of the policies or procedures described in these Ground Rules, and/or
  - any inaccuracies in the compilation of the index or any constituent data in them.

<sup>&</sup>lt;sup>1</sup> With effect from 1 April 2022 rebranded from FTSE MTS Indices

<sup>&</sup>lt;sup>2</sup> With effect from 10 October 2022, REPS replaced prices from MTS platform.

#### 1.6 These Ground Rules

1.6.1 This document sets out the Ground Rules for the construction and management of the FTSE Eurozone Highest-Rated Government Bond Indices.

#### 1.7 FTSE Russell

1.7.1 FTSE Russell is a trading name of FTSE International Limited, Frank Russell Company, FTSE Global Debt Capital Markets Limited (and its subsidiaries FTSE Global Debt Capital Markets Inc. and FTSE Fixed Income Europe Limited), FTSE Fixed Income LLC, The Yield Book Inc. and Beyond Ratings.

#### 1.8 Index series objectives

1.8.1 The FTSE Eurozone Highest Rated Government Bond Index Series includes both the FTSE Eurozone Highest-Rated Government Bond Indices and the FTSE Eurozone Lowest-Rated Government Bond Indices. The indices are designed to be a measure of the Eurozone Government Bond market. They are transparent indices and are designed to be replicable with individual security holdings and prices disclosed electronically each day.

#### 1.9 Publication of index and underlying data

- 1.9.1 FTSE Eurozone Indices are published on end of day basis following market close at 17:15 CET.
- 1.10 The base currency of the benchmark is EUR.

#### 1.11 FTSE Eurozone Highest-Rated Government Bond Indices

1.11.1 The FTSE Eurozone Highest-Rated Government Bond Indices are a family of Eurozone sovereign indices grouped by maturity range and based on issuers with the highest credit ratings. The pan-Eurozone indices (together with their maturity sub-indices) were launched in October 2009 and each index has a history of index values back to 31 December 1998.

Also included in the index series are the FTSE Eurozone Lowest-Rated Government Bond Index and the FTSE Eurozone Lowest-Rated Government Bond IG Index – two all-maturity Eurozone sovereign indices based on issuers with two or more credit ratings below the highest level. For the investment grade version, only bonds from Eurozone issuers with at least two investment grade ratings from the three main credit ratings agencies become Eligible Bonds.

The constituents of the indices are based on the same Eligible Bonds used for the FTSE Eurozone Government Bond Indices but, unlike those indices, all Eligible Bonds are selected without restriction.

#### 1.12 Price and Total Return indices

- 1.12.1 Price and Total Return indices are calculated.
- 1.12.2 Total Return Index: Coupons paid out on any bond in an index portfolio are reinvested overnight in the index itself. No deduction is made to a coupon before it is reinvested in the index i.e. no withholding tax is applied.

#### 1.13 Index analytics

- 1.13.1 In addition to the Capital Index and Total Return Index, the following index analytics are also calculated:
  - Average coupon
  - Average yield to maturity
  - Average time to maturity
  - Average Macaulay duration
  - Average modified duration
  - Average convexity

# Section 2 Management responsibilities

## 2. Management responsibilities

#### 2.1 FTSE International Limited (FTSE)

- 2.1.1 FTSE is the benchmark administrator of the index series<sup>3</sup>.
- 2.1.2 FTSE Russell is responsible for the daily calculation, production and operation of the FTSE Eurozone Highest-Rated Government Bond Index Series and will:
  - maintain records of all the constituents;
  - be responsible for the addition and deletion of bonds and changes of nominal amounts, in accordance with the Ground Rules.

#### 2.2 FTSE EMEA Fixed Income Advisory Committee

- 2.2.1 The FTSE EMEA Fixed Income Advisory Committee has been established by FTSE Russell. The Committee may recommend changes to the Ground Rules for approval by the FTSE Russell Index Governance Board.
- 2.2.2 The Terms of Reference of the FTSE EMEA Fixed Income Indices Advisory Committee are set out on the FTSE Russell website and can be accessed through the following link:

FTSE\_EMEA\_Fixed\_Income\_Advisory\_Committee.pdf

#### 2.3 Amendments to these Ground Rules

- 2.3.1 These Ground Rules shall be subject to regular review (at least once a year) by FTSE Russell to ensure that they continue to best reflect the aims of the index series. Any proposals for significant amendments to these Ground Rules will be subject to consultation with the FTSE EMEA Fixed Income Advisory Committee and other stakeholders if appropriate. The feedback from these consultations will be considered by the FTSE Russell Index Governance Board before approval is granted.
- 2.3.2 As provided for in the Statement of Principles for FTSE Fixed Income Indices, where FTSE Russell determines that the Ground Rules are silent or do not specifically and unambiguously apply to the subject matter of any decision, any decision shall be based as far as practical on the Statement of Principles. After making any such determination, FTSE Russell shall advise the market of its decision at the earliest opportunity. Any such treatment will not be considered as an exception or change to the Ground Rules, or to set a precedent for future action, but FTSE Russell will consider whether the Rules should subsequently be updated to provide greater clarity.

#### 2.4 Market disruption

2.4.1 If the value of one or more constituents is not published due to a suspension or a market disruption event, the index will be calculated taking the previous end of day value.

<sup>&</sup>lt;sup>3</sup> The term administrator is used in this document in the same sense as it is defined in <u>Regulation (EU) 2016/1011 of the European Parliament and of the Council of 8 June 2016 on indices used as benchmarks in financial instruments and financial contracts or to measure the performance of investment funds (the European Benchmark Regulation) and <u>The Benchmarks (Amendment and Transitional Provision) (EU Exit) Regulations 2019</u> (the UK Benchmark Regulation).</u>

# Section 3 FTSE Russell index policies

## 3. FTSE Russell index Policies

These Ground Rules should be read in conjunction with the following policy documents which can be accessed through the links below:

#### 3.1 Queries and Complaints

FTSE Russell's complaints procedure can be accessed through the following link:

Benchmark\_Determination\_Complaints\_Handling\_Policy.pdf

#### 3.2 Statement of Principles for FTSE Fixed Income Indices (the Statement of Principles)

Indices need to keep abreast of changing markets and the Ground Rules cannot anticipate every eventuality. Where the Ground Rules do not fully cover a specific event or development, FTSE Russell will determine the appropriate treatment by reference to the Statement of Principles for FTSE Fixed Income Indices which summarises the ethos underlying FTSE Russell's approach to index construction. The Statement of Principles is reviewed annually and any changes proposed by FTSE Russell are presented to the FTSE Russell Policy Advisory Board for discussion before approval by the FTSE Russell Index Governance Board.

The Statement of Principles for Fixed Income Indices can be accessed through the following link:

Statement\_of\_Principles\_Fixed\_Income\_Indices.pdf

#### 3.3 Recalculation Policy and Guidelines

The Recalculation Policy and Guidelines for Fixed Income Indices document is available from the FTSE Russell website through the link below or by contacting <u>info@ftserussell.com</u>.

Fixed\_Income\_Recalculation\_Policy\_and\_Guidelines.pdf

#### 3.4 Index Policy in the Event Clients are Unable to Trade a Market or a Security

3.4.1 Details of FTSE Russell's treatment can be accessed through the following link:

Index\_Policy\_in\_the\_Event\_Clients\_are\_Unable\_to\_Trade\_a\_Market\_or\_a\_Security.pdf

#### 3.5 Policy for Benchmark Methodology Changes

3.5.1 Details of FTSE Russell's policy for making benchmark methodology changes can be accessed through the following link:

Policy\_for\_Benchmark\_Methodology\_Changes.pdf

#### 3.6 FTSE Russell Governance Framework

3.6.1 To oversee its indices, FTSE Russell employs a governance framework that encompasses product, service and technology governance. The framework incorporates the London Stock Exchange Group's three lines of defence risk management framework and is designed to meet the requirements of the IOSCO Principles for Financial Benchmarks<sup>4</sup>, the European benchmark regulation<sup>5</sup> and the UK benchmark regulation<sup>6</sup>. The FTSE Russell Governance Framework can be accessed through the following link:

FTSE Russell Governance Framework.pdf

<sup>&</sup>lt;sup>4</sup> IOSCO Principles for Financial Benchmarks Final Report, FR07/13 July 2013.

<sup>&</sup>lt;sup>5</sup> Regulation (EU) 2016/1011 of the European Parliament and of the Council of 8 June 2016 on indices used as benchmarks in financial instruments and financial contracts or to measure the performance of investment funds.

<sup>&</sup>lt;sup>6</sup> The Benchmarks (Amendment and Transitional Provision) (EU Exit) Regulations 2019.

# Section 4 Eligibility criteria

## 4. Eligibility criteria

#### 4.1 Eligible bonds

- 4.1.1 To be eligible for the Index Series, bonds must meet the following eligibility criteria:
  - Nominal, fixed coupon bullet-maturity bonds denominated in local currency and having no embedded options or convertibility;
  - Quoted on the Refinitiv Evaluated Pricing Service (REPS);
  - Bonds must have a remaining time to maturity of 1 year;
  - Issued by the sovereign government of the following countries Austria, Belgium, Finland, France, Germany, Ireland, Italy, Netherlands, Portugal and Spain;
  - A minimum outstanding amount of €2 billion.
- 4.1.2 For the FTSE Eurozone Highest-Rated Government Bond Index, bonds must have at least two AAA ratings from the three main credit rating agencies: Fitch, Moody's and S&P.
- 4.1.3 For the FTSE Eurozone Lowest-Rated Government Bond Index, bonds must not be constituents of the FTSE Eurozone Highest-Rated Bond Index and have two or more ratings from the three main credit ratings agencies below the highest possible rating.
- 4.1.4 Additionally, for the FTSE Eurozone Lowest-Rated Government Bond IG Index, the same criteria applies as in 4.1.3, but with the additional requirement that the bonds must have at least two investment grade ratings from the three main rating agencies.
- 4.1.5 Where a credit rating downgrade for an eligible issuer(s) would lead to the number of eligible issuers falling below the minimum of five, the issuer(s) in question will remain in the index until a new issuer becomes eligible to replace it.
- 4.1.6 If an issuer becomes eligible for the FTSE Eurozone Highest-Rated Government Bond Index, and there are multiple issuers who are eligible to be replaced, the issuer with the lowest average rating will be removed.

#### 4.2 Selection criteria

All eligible bonds automatically become Selected Bonds.

The all-maturity FTSE Eurozone Highest-Rated Government Bond index must comprise of a minimum of five issuers. Where a credit rating downgrade for an eligible issuer would lead to the number of eligible issuers falling below the minimum, the issuer in question will remain in the index until a new issuer becomes eligible to replace it.

The minimum of five issuers' requirement does not apply to the maturity sub-indices.

All bonds selected for the all-maturity index will be considered for the sub-indices.

# Section 5 Price sources

### 5. Price sources

5.1 FTSE Eurozone Indices are priced using the Refinitiv Evaluated Pricing Service (REPS).

Index updates are calculated using best bid prices. New bonds entering the index for the first time use the best offer price, replicating the bid-offer spread experienced by a fund tracking the index. This applies to both the all-maturity and the individual maturity sub-indices.

Selected indices of each series are also available in mid-priced versions, where existing constituents are valued using mid prices. In order to replicate the bid-offer spread incurred when tracking the mid-index, new constituents enter the mid-priced index using their respective offer prices and leave the index using their respective bid prices. The mid-price is calculated as the arithmetic average of the respective bid and offer price pair.

- 5.2 Prior to being used in the index calculation, the prices are subject to a multi-step verification process which aims to remove stale or off-market prices. The verification procedure includes:
  - Comparing the bid and offer spreads against country thresholds
  - Comparing price movements in individual bonds against pre-defined thresholds.

Any price that successfully completes the verification process is referred to as the Last Good Price (LGP) and is subsequently used in the index calculation. In the event that the verification process disqualifies all prices for a particular bond, the LGP is used until a new price is available.

#### 5.3 Verification and price challenges

- 5.3.1 Statistical techniques are used to identify pricing anomalies based on bid-ask spreads, day-over-day changes and comparisons across peer groups by maturity, asset type, etc.
- 5.3.2 Any price challenges from index users and possible outliers from the verification process are reviewed with our pricing provider.

In the event that an issue is not able to be resolved in a timely manner, FTSE Russell may exercise expert judgement and roll prices from the previous day. Any exercise of expert judgement is recorded.

# Section 6 Index rebalancing

## 6. Index rebalancing

#### 6.1 Monthly rebalancing

- 6.1.1 FTSE Eurozone Indices are rebalanced every calendar month. New selections for the index portfolios and their amounts are established using market data at 17:15 CET on the first day that is a TARGET business day, following the 15th day of the month prior to the effective date of the new selections (such business day being the "Selection Day"). The first settlement day of a bond following issuance must be on or before Selection Day in order for it to be eligible for the new monthly selections.
- 6.1.2 The monthly rebalance is applied post close on the last business day of the month with prices from 17:15 CET, i.e. with effect from opening on the first business day of the following month.
- 6.1.3 In the event that there are no Eligible Bonds available to be selected for a new monthly index portfolio, the current (populated) index portfolio is held constant until a new bond(s) becomes eligible.

#### 6.2 Capping

- 6.2.1 The weighting of the countries in the FTSE Eurozone Lowest-Rated Indices is dependent on the number of countries which have eligible bonds.
- 6.2.2 If the number of countries is greater than or equal to 4, no country can have a weight in excess of 30% on the Selection Day. The weight of any country exceeding the limit will have its weight reduced, redistributing the excess weight proportionally to the remaining countries. This process is repeated until no country has a weight in excess of the cap.
- 6.2.3 If the number of countries falls below 4, the countries are equally weighted on the Selection Day.
- 6.2.4 Within each country, the weight of the individual bonds will remain proportional to their relative market value.

# Appendix A Calculations

## Index level calculations

**Total return index** 

$$TR(t) = \frac{\sum_{i=1}^{n} \left( \left( (P_i(t) + AI_i(t)) \times N_i(r) \right) \times WF_i(r) \times E_i(t) + Cash(t) \right)}{TRIDivisor(t)}$$

**Price Index** 

$$PR(t) = \frac{\sum_{i=1}^{n} P_i(t) \times N_i(r) \times WF_i(r) \times E_i(t)}{Divisor(t)}$$

Index yield

$$IndexYield(t) = \frac{\sum_{i}^{n} Y_{i}(t) \times MV_{i}(t) \times MD_{i}(t) \times WF_{i}(r) \times E_{i}(t)}{\sum_{i}^{n} MV_{i}(t) \times MD_{i}(t) \times WF_{i}(r) \times E_{i}(t)}$$

Market value

$$MarketValue(t) = \sum_{i=1}^{n} (P_i(t) + AI_i(t)) \times N_i(r) \times WF_i(r) \times E_i(t)$$

**TRI Divisor** 

$$TRIDivisor(t+1) = \begin{cases} \frac{\sum_{i=1}^{n} (P_i(t) + AI_i(t)) \times N_i(r) \times WF_i(r) \times E_i(t)}{TR(t)}, \ t <> day \ before \ rebalance \ effective \ day \\ \frac{\sum_{i=1}^{n} (P_i(t) + AI_i(t)) \times N_i(r+1) \times WF_i(r+1) \times E_i(t)}{TR(t)}, \ t = day \ before \ rebalance \ effective \ day \\ \end{cases}$$

Divisor

$$Divisor(t+1) = \frac{\sum_{i=1}^{n} P_i(t) \times N_i(r+1) \times WF_i(r+1) \times E_i(t)}{PR(t)}$$

**Macaulay duration** 

$$Duration(t) = \frac{\sum_{i}^{n} MV_{i}(t) \times D_{i}(t) \times WF_{i}(r) \times E_{i}(t)}{\sum_{i}^{n} MV_{i}(t) \times WF_{i}(r) \times E_{i}(t)}$$

**Modified duration** 

$$ModDuration(t) = \frac{\sum_{i}^{n} MV_{i}(t) \times MD_{i}(t) \times WF_{i}(r) \times E_{i}(t)}{\sum_{i}^{n} MV_{i}(t) \times WF_{i}(r) \times E_{i}(t)}$$

Convexity

$$Convexity(t) = \frac{\sum_{i}^{n} MV_{i}(t) \times Cvxt_{i}(t) \times WF_{i}(r) \times E_{i}(t)}{\sum_{i}^{n} MV_{i}(t) \times WF_{i}(r) \times E_{i}(t)}$$

Average coupon

$$Coupon(t) = \frac{\sum_{i}^{n} N_{i}(t) \times C_{i}(t) \times WF_{i}(r) \times E_{i}(t)}{\sum_{i}^{n} N_{i}(r) \times WF_{i}(r) \times E_{i}(t)}$$

Average time to maturity

$$TimeToMaturity(t) = \frac{\sum_{i}^{n} N_{i}(t) \times TTM_{i}(t) \times WF_{i}(r) \times E_{i}(t)}{\sum_{i}^{n} N_{i}(r) \times WF_{i}(r) \times E_{i}(t)}$$

Index notional

IndexNotional(t) = 
$$\sum_{i}^{n} N_{i}(r) \times WF_{i}(r) \times E_{i}(t)$$

Index cash

$$Cash(t) = \sum_{i}^{n} C_{i}(t) \times N_{i}(r) \times X_{i}(t) \times WF_{i}(r) \times E_{i}(t)$$

## **Bond level calculations**

Accrued interest

$$AI_{i}(t) = \frac{D_{i}(sd, pcd_{i})}{D_{i}(cp_{i})} \times \frac{C_{i}(t)}{f_{i}}$$
Gross price
$$DP_{i}(t) = P_{i}(t) + AI_{i}(t)$$
Market value
$$MV_{i}(t) = DP_{i}(t) \times N_{i}(r)$$
Yield to maturity
$$DP_{i}(t) = \sum_{k_{i}=tc_{i}}^{n_{i}} \frac{CF_{i}}{\left(1 + \frac{Y_{i}(t)}{f_{i}}\right)^{k_{i}}}$$
Simple yield
$$SY_{i}(t) = \frac{\left(\frac{FV_{i}}{DP_{i}(t)} - 1\right)}{TTM_{i}(t)}$$
Macaulay duration

$$D_i(t) = \frac{\sum_{k_i=tc_i}^{n_i} \frac{CF_i \times k_i}{\left(1 + \frac{Y_i(t)}{f_i}\right)^{k_i}}}{DP_i(t)}$$

**Modified duration** 

$$MD_i(t) = \frac{D_i(t)}{\left(1 + \frac{Y_i(t)}{f_i}\right)}$$

Convexity

$$Cnvxt_{i}(t) = \frac{1}{4 \times DP_{i}(t)} \times \sum_{k_{i}=tc_{i}}^{n_{i}} \frac{\left(k_{i}^{2} + k_{i}\right) \times CF_{i}}{\left(1 + \frac{Y_{i}(t)}{f_{i}}\right)^{k_{i}+2}}$$

## Key to terms

Кеу	Description
TR	Total return index
PR	Price Index
IndexYield	Average yield to maturity of the index
MarketValue	Total market value of the index
TRIDivisor	Total return index divisor for the total return index
Divisor	Price index divisor for the price index
Duration	Average Macaulay duration of the index
ModDuration	Average modified duration of the index
Convexity	Average convexity of the index
Coupon	Average coupon of the index
TimeToMaturity	Average time to maturity of the index
IndexNotional	Total amount outstanding of the index
Cash	Total cash held in the index as a result of coupon payments
P <sub>i</sub>	Clean price of the bond <i>i</i> used for index calculation
AI <sub>i</sub>	Accrued interest if the bond i
N <sub>i</sub>	Amount outstanding of the bond <i>i</i> used for index calculation
WF <sub>i</sub>	Weight adjustment factor of the bond <i>i</i>
E <sub>i</sub>	The exchange rate required to convert the security's currency into the index's base currency
Y <sub>i</sub>	Annualised yield to maturity of the bond <i>i</i>
MV <sub>i</sub>	Total market value of the bond <i>i</i>
MD <sub>i</sub>	Modified duration of the bond <i>i</i>
D <sub>i</sub>	Macaulay duration of bond <i>i</i>
$D_i(sd,pcd_i)$	Calendar days between the index settlement date and the previous coupon date of the bond <i>i</i> , based on day count basis
$D_i(cp_i)$	Number of days in the coupon period of the bond <i>i</i> , based on day count basis
<i>Cvxt<sub>i</sub></i>	Convexity of bond i
C <sub>i</sub>	Coupon rate of bond i

Кеу	Description
TTM <sub>i</sub>	Time to maturity of bond <i>i</i>
X <sub>i</sub>	Coupon payment marker of bond <i>i</i> , will be 1 if coupon payment date else 0
D <sub>i</sub>	Days applicable to bond <i>i</i>
DP <sub>i</sub>	Dirty price of bond <i>i</i>
$f_i$	Coupon payment frequency of bond <i>i</i>
CF <sub>i</sub>	Cash flow amount of bond <i>i</i>
SY <sub>i</sub>	Annualised yield to maturity of the bond <i>i</i> , simple interest basis. Calculated only when the bond is in its final coupon period.
FV <sub>i</sub>	Face value of bond <i>i</i>
n <sub>i</sub>	Total number of remaining cash flows of bond <i>i</i>
k <sub>i</sub>	Time to each cash flow of bond <i>i</i>
t	Calculation date
t-1	Previous calculation date
t+1	Next calculation date
r	Index rebalance-effective date
r+1	Next index rebalance-effective date

# Appendix B Further information

A glossary of terms used in FTSE Russell's Ground Rule documents can be found through the following link:

Fixed\_Income\_Glossary\_of\_Terms.pdf

For further information on the FTSE Eurozone Highest-Rated Government Bond Index Ground Rules please visit <u>www.lseg.com/en/ftse-russell/</u> or e-mail <u>info@ftserussell.com</u>.

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