

The FTSE Russell logo is a light blue circle containing the text "FTSE" and "Russell" stacked vertically in white. The background of the slide is a dark, teal-toned image of a mountain range.

FTSE
Russell

FTSE Russell

Your global partner across asset classes

ftserussell.com

Jesús Togno – Regional Director LatAm

October 22, 2021

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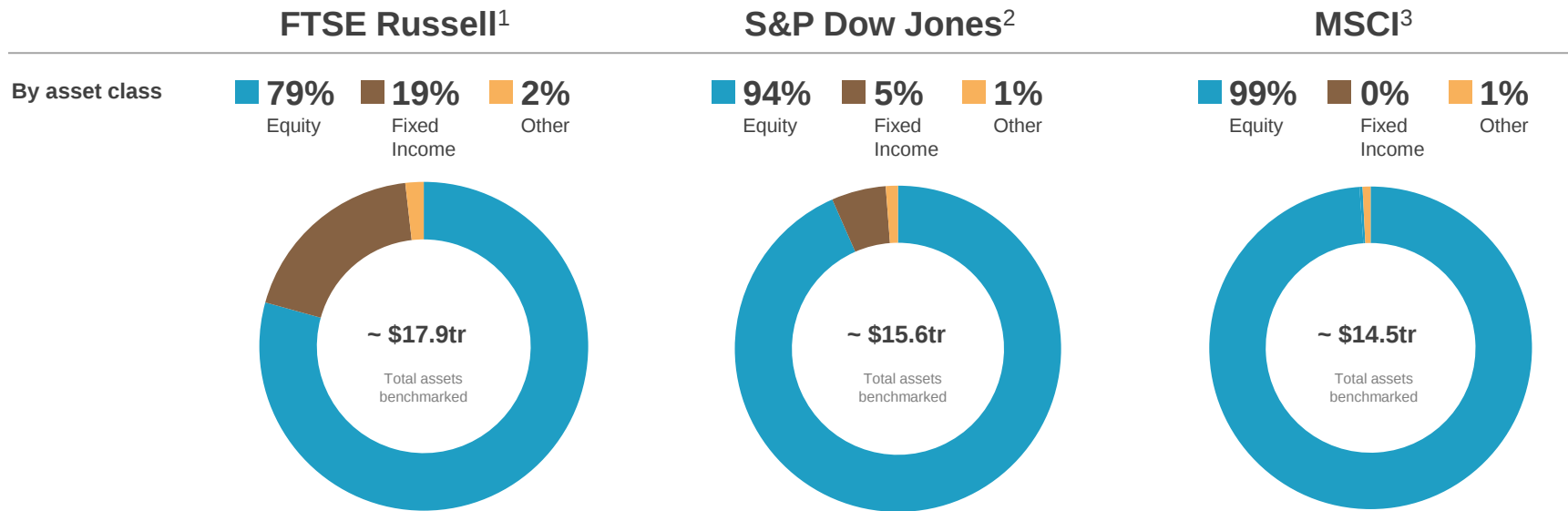
- 01 Who we are and how we can help
- 02 Why our indexes are the true measure of your market
- 03 FTSE Frontier Emerging Markets Government Bond Index Series
- 04 Common questions
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- 06 Appendix



Section 1

**How can we add value to your
investment process?**

A leader across asset classes



Above data is estimated by FTSE Russell.

1. FR: Data as of December 31, 2020, as reported on April 1, 2021, by eVestment for active institutional funds, Morningstar for active retail mutual funds, insurance products, and ETFs, and passive assets directly collected by FTSE Russell. AUM includes blended benchmarks and excludes futures and options. AUM data does not include active and passive assets not reported to a 3rd party source or FTSE Russell. For funds where the AUM was not reported as of December 31, 2020, the previous period AUM was used as an estimate. No assurances are given by FTSE Russell as to the accuracy of the data.

2. S&P Dow Jones: S&P Dow Jones Indices Annual Survey of Assets, 12-2019. investorfactbook.spglobal.com/sp-dow-jones-indices/sp-dow-jones-indices-worlds-leading-provider-of-financial-market-indices/

3. MSCI: For total benchmarked assets: MSCI.com, data as of 12-2020. For asset class breakout: asset class shares estimated by FTSE Russell as of 12-2020.

Your global and local index partner

The leader across asset classes in both global and local markets



FTSE Russell Index Coverage to top investors and issuers around the world

Global Equity	Global Equity	Regional Equity	Domestic Equity
Global Fixed Income	Government Bonds	Corporate Bonds	EM Bonds
	High Yield	Inflation	Municipals
	Securitised	FRNs	
Cash & Money Markets	Bills		Rates / Deposits
Intermediate Securities	Preference Shares	Hybrid Securities	Convertible Bonds
Real Assets	Public Real Estate	Public Infrastructure	Commodities
Private Assets	Private Equity		Venture Capital
Currency	Currencies / FX	Crypto	

At the heart of global markets

FTSE Russell offers buy and sell-side communities an integrated multi-asset platform of proprietary data, analytics and indexes, with products designed for the world's most demanding institutions.

98/100

top asset managers use
FTSE Russell indexes¹

Top 10

investment banks use
FTSE Russell indexes²

72 COUNTRIES

clients served in
countries around the
world⁷

~120

Index linked Futures and
Options listed on 15
global exchanges⁵

15/15

top global ETF
issuers work with
FTSE Russell⁶

\$17.9T

in reported fund AUM
for FTSE Russell
benchmarks³

\$3.4T

...of which tracks our
fixed income
benchmarks³

~610

ETFs benchmarked to
FTSE Russell indexes⁴

~\$988B

ETF-linked assets
benchmarked⁴

~918B

In equity ETF assets
benchmarked⁴

Above data is estimated by FTSE Russell.

1. Based on FTSE Russell clients as of March 2021 and Pension & Investments list of top 100 worldwide asset managers.

2. Based on FTSE Russell clients as of April 2019 and Dealogic list of top 10 investment banks.

3. Data as of December 31, 2020, as reported on April 1, 2021, by eVestment for active institutional funds, Morningstar for active retail mutual funds, insurance products, and ETFs, and passive assets directly collected by FTSE Russell. AUM includes blended benchmarks and excludes futures and options. AUM data does not include active and passive assets not reported to a 3rd party source or FTSE Russell. For funds where the AUM was not reported as of December 31, 2020, the previous period AUM was used as an estimate. No assurances are given by FTSE Russell as to the accuracy of the data.

4. Morningstar, April 2021.

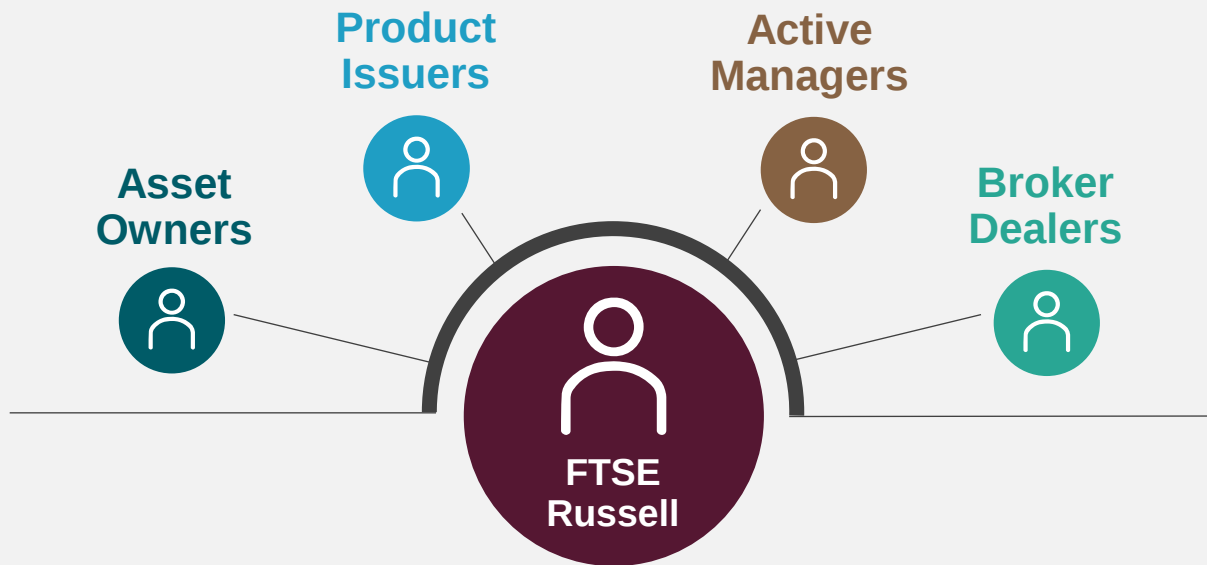
5. FTSE Russell, May 2021.

6. Morningstar, December 2020.

7. FTSE Russell 2019.

8. FTSE Russell, 2019

Adding value to your process



Partnering with our clients so they can
make critical decisions with confidence

How an institutional investor such as a defined benefit pension plan may use indexes

Step	Example(s)	How indexes are used
Set investment objectives	Maximize surplus or adequately fund liabilities	Indexes help the plan, its trustees, and consultant(s) set objectives and make asset allocation decisions. Indexes provide a framework for portfolio construction
Determine asset allocation	Usually divided between asset classes such as public equity, fixed income, real estate, and private equity to ensure diversification	
Identify strategic allocation to sub-asset categories	Divide public equities allocation into the separate categories of international equity and domestic equity	
Define ranges, or buffers, around target allocations to allow for tactical investment decisions to be made as market conditions change	Allocation to international equities is set at 10% with buffers +/- 2% to allow for tactical investment decisions	
Communicate investment goals to investment manager(s)	Goals and objectives are communicated to the investment manager chosen for the international equities allocation	Indexes are often used to establish the universe of securities from which the manager will likely invest
Determine whether the plan objectives are being met and how (or why not)	Analyze the different components of the investment portfolio to attribute performance to manager success, market growth, strategic positioning or other sources	Indexes are used to measure the performance of the entire investment portfolio relative to that of the established asset allocation targets (sometimes referred to as the "policy benchmark"). Indexes therefore allow for performance attribution

An aerial photograph of a valley. The valley floor is covered in green grassy fields, some of which are separated by stone walls. The surrounding hillsides are densely forested with trees displaying vibrant autumn colors, including shades of orange, red, and yellow. The lighting suggests a late afternoon or early morning scene, with long shadows and warm tones.

Section 2

FTSE Russell Indexes: The true measure of your market

We combine global expertise with local market knowledge

Global partnerships and collaborations result in best-of-breed solutions

Exchanges around the world choose FTSE Russell to calculate their local market benchmarks – e.g. JSE, Bursa Malaysia, TWSE Taiwan

Asia

ASEAN Exchanges
Bursa Malaysia
Nomura
Singapore Exchange
SPH
The Stock Exchange
of Thailand
TWSE

Africa

ASEA
Casablanca Stock
Exchange
JSE
Nairobi Securities
Exchange

Europe

Athens Exchange
BME
EPRA
Euronext
MTS
Tradeweb
Yasaar Limited

Middle East

Nasdaq Dubai

Australia

ASFA

North America

BIVA
Curex
Mountain Pacific
Nareit
PIP
Research Affiliates



Building a better benchmark

**Principle 1: Objectivity and accuracy -
Delivering an unbiased, complete
view of the market**

Principle 2: Modularity

**Principle 3: Reliability. Use a
disciplined, reliable maintenance
process (methodology)**

DEVELOPED

Australia

Austria

Belgium/

Canada

France

Germany

Italy

Japan

Netherlands

New Zealand

Norway

Sweden

Switzerland

UK

USA

ADVANCED EMERGING

Brazil

Cz. Republic

Greece

Hungary

India

Indonesia

Israel

Italy

Korea

Mexico

Poland

Portugal

Russia

South Africa

Spain

Taiwan

Thailand

Turkey

Ukraine

USA

Vietnam

SECONDARY EMERGING

Chile

China

China A*

Colombia

Czechia

Egypt

France

Germany

Ghana

Hong Kong

India

Indonesia

Israel

Italy

Japan

Korea

Malaysia

Mexico

Morocco

Netherlands

New Zealand

Norway

Poland

Portugal

Russia

South Africa

Spain

Taiwan

Thailand

Turkey

Ukraine

USA

Vietnam

FRONTIER

Argentina

Bahrain

Bangladesh

Botswana

Bulgaria

Cambodia

Canada

Czechia

Egypt

France

Germany

Ghana

Hong Kong

India

Indonesia

Israel

Italy

Japan

Korea

Malaysia

Mexico

Morocco

Netherlands

New Zealand

Norway

Poland

Portugal

Russia

South Africa

Spain

Taiwan

Thailand

Turkey

Ukraine

USA

Vietnam

Lithuania

Macedonia

Malta

Mauritius

◆ FTSE GLOBAL SMALL CAP

\$5.6 trillion net market cap

4,665 stock

◆ FTSE ALL-WORLD®

\$45.7 trillion net market cap

4,665 stock

◆ FTSE GL

\$1.1 trillion

8,395 stock

◆ FTSE DE

\$47.0 trillion

11,631 large cap stocks

◆ FTSE GL

\$52.4 trillion

16,303 large cap stocks

Index inclusion and methodology summary

FTSE Frontier Emerging Markets Government Bond Index (FRNTEMGBI)	
Composition	Fixed-rate, local currency sovereign debt. Central bank debt is included for Costa Rica and Dominican Republic. Infrastructure bonds are included for Kenya.
Amount outstanding	Bangladesh: BDT 15 billion Costa Rica: CRC 100 billion Dominican Republic: DOP 10 billion Egypt: EGP 1.5 billion Ghana: GHS 500 million Kenya: KES 15 billion Morocco: MAD 2 billion Nigeria: NGN 10 billion Pakistan: PKR 20 billion Serbia: RSD 10 billion Sri Lanka: LKR 50 billion Ukraine: UAH 2.5 billion Vietnam: VND 5 trillion
Maximum market size	Maximum market size of \$50 billion in index-eligible par amount outstanding. For purposes of inclusion in the index series at the Index Launch in April 2021, the maximum market size was assessed as of the Index Base Date in December 2017. Countries are not excluded from the index series if they exceed the maximum market size after their inclusion.
Minimum market size	Minimum market size of \$5 billion in index-eligible par amount outstanding. For purposes of inclusion in the index series at the Index Launch in April 2021, the minimum market size was assessed as of the Index Base Date in December 2017. Countries are not excluded from the index series if they fall below minimum market size after their inclusion.
Credit rating	Maximum of BBB- from S&P and Baa3 from Moody's. Countries without a long term local currency sovereign rating from Moody's or S&P are excluded. Countries are not excluded if their rating is upgraded above BBB- by S&P or Baa3 by Moody's after entry.
World Bank classification	Countries classified as High Income are excluded.
Exclusion	Treasury bills, private placements, and securities without pricing.
Pricing	Refinitiv bid-side pricing. 4:00pm New York: Costa Rica, Dominican Republic 4:15pm London: Egypt, Ghana, Kenya, Morocco, Serbia, Ukraine 6:00pm London: Nigeria 6:00pm Tokyo: Bangladesh, Pakistan, Sri Lanka, Vietnam
Reinvestment rate	Cash flows are not reinvested as part of the calculation of index total return.
Coupon type	Fixed-rate and zero coupon.
Maturity	At least one year to maturity.
Settlement	T+0
Rebalancing	Once a month at the end of the month.
Base date	December 31, 2017
Market Accessibility Level and Market Inclusion Review	Countries must be assigned a Market Accessibility Level of 0 based on the FTSE Fixed Income Country Classification Process. The composition of local currency government markets included in the index series is reviewed on a semi-annual basis each March and September and aligned with the review cadence of the FTSE Fixed Income Country Classification Framework. Any announcement of a reclassification of the Market Accessibility Level of a market currently included in the FTSE Frontier Emerging Markets Government Bond Index Series from 0 to a higher level will coincide with an announcement of its exit from the index series, providing at least 6 months' notice.

Building blocks for the right index

Comprehensive modular framework for global investing that covers all major asset classes, regions, sectors, styles and investment themes

Market	Global	Single country	Region	Global ex country	Region ex country	Inclusion (e.g. China A Inclusion)	
	Developed	Emerging	Advanced Emerging	Secondary Emerging	Frontier		
Size	Large cap	Mid cap	Small cap	Micro cap			
Sector (ICB)	Industries (11)	Super Sectors (20)	Sectors (45)	Sub-sectors (173)			
Sustainability & Shariah	Climate	ESG	Green Revenues / Environmental Markets	TPI	Global Compact	Real Estate	FTSE4Good
	Paris-aligned	Ex Fossil Fuel	Carbon	Sovereigns	Exclusions / Screens / Choice	Women on Boards	Shariah
Non-market cap / Theme / Strategy	Industry-specific	Factor	Volatility	Fundamental	Equally Weighted	Dividend	Risk-based
	GDP	Fair Value	Yield	Domestic & Global Exposure	Super Liquid	Target date	Smart sustainability

FTSE Global Equity Index Series (FTSE GEIS)

DEVELOPED			EMERGING				FRONTIER		
			ADVANCED EMERGING		SECONDARY EMERGING				
Australia	Ireland	Singapore	Brazil	Mexico	Chile	Pakistan	Bahrain	Jordan	Palestine
Austria	Israel	South Korea	Czech Republic	South Africa	China	Philippines	Bangladesh	Kazakhstan	Peru
Belgium/Luxembourg	Italy	Spain	Greece	Taiwan	Colombia	Qatar	Botswana	Kenya	Republic of North Macedonia
Canada	Japan	Sweden	Hungary	Thailand	Egypt	Romania	Bulgaria	Latvia	Serbia
Denmark	Netherlands	Switzerland	Malaysia	Turkey	India	Russia	Côte d'Ivoire	Lithuania	Slovak Republic
Finland	New Zealand	UK			Indonesia	Saudi Arabia	Croatia	Malta	Slovenia
France	Norway	USA			Kuwait	UAE	Cyprus	Mauritius	Sri Lanka
Germany	Poland						Estonia	Morocco	Tanzania
Hong Kong	Portugal						Ghana	Nigeria	Tunisia
							Iceland	Oman	Vietnam

● Americas
● Asia Pacific
● Europe
● MEA

FTSE Global All Cap Index (Large, Mid, Small)

FTSE All-World Index (Large & Mid)

FTSE Developed Index (Large, Mid)

FTSE Emerging Index (Large, Mid)

FTSE World Index (Large & Mid, Developed & Advanced Emerging)

FTSE Global Small Cap Index

FTSE Global Micro Cap Index

FTSE Global Total Cap Index (Large, Mid, Small, Micro)

FTSE Developed Total Cap Index (Large, Mid, Small, Micro)

FTSE Emerging Total Cap Index (Large, Mid, Small, Micro)

FTSE Frontier (Large, Mid, Small)

Spanning the entire fixed income spectrum to open new opportunities for investors

GLOBAL	
	FTSE World Government Bond Index (WGBI) ¹
	FTSE World Government Bond Index – Developed Markets
	FTSE World Government Bond Index – Extended
	FTSE World Government Bond Index – Japanese Investment Trust ²
	FTSE World Broad Investment-Grade Bond Index (WorldBIG®) ²
	FTSE World Inflation-Linked Securities Index (WorldLSI)
	FTSE World Money Market Index
	FTSE Eurodollar Bond Index
	FTSE Eurosterling Bond Index
	FTSE Euroyen Bond Index

EMERGING MARKETS	
	FTSE Emerging Markets Government Bond Index (EMGBI) ³
	FTSE EMGBI – Japanese Investment Trust
	FTSE Emerging Markets USD Government Bond Index ³
	FTSE Frontier Emerging Markets Government Bond Index
	FTSE Emerging Markets USD Broad Bond Index ³
	FTSE Emerging Markets Inflation-Linked Securities Index

AMERICAS	
	FTSE US Treasury Bill Indexes
	FTSE US Treasury 0-1 Year Indexes
	FTSE US Treasury Floating Rate Note Index
	FTSE Latin American Government Bond Index
	FTSE US Broad Investment-Grade Bond Index (USBIG®)
	FTSE US Large Pension Fund Index
	FTSE US High-Yield Market Index ³
	FTSE US High-Yield Market Capped Index
	FTSE US Treasury STRIPS Index
	FTSE US Mortgage Index
	FTSE US Municipal Tax-Exempt Investment-Grade Bond Index
	FTSE US Money Market Index

	Government
	Broad
	Corporate
	Other

ASIA PACIFIC & JAPAN	
	FTSE Asian Government Bond Index (AGBI) ³
	FTSE Chinese Government and Policy Bank Bond Index (CNGPBI)
	FTSE Asian Pacific Government Bond Index
	FTSE Vietnamese Government Bond Index
	FTSE Asian Broad Bond Index (ABBI)
	FTSE Chinese (Onshore CNY) Broad Bond Index
	FTSE Dim Sum (Offshore CNY) Bond Index
	FTSE Australian Broad Investment-Grade Bond Index (AusBIG®)
	FTSE Chinese (Onshore CNY) Green Bond Index

THEMATIC			
	Climate Risk-Adjusted World Government Bond Index (CLMTWGBI)		FTSE Advanced Climate Risk-Adjusted World Government Bond Index (ACLMTWGBI)
	Climate Risk-Adjusted Euro Government Bond Index (CLMTEGBI)		FTSE Advanced Climate Risk-Adjusted Euro Government Bond Index (ACLMTEGBI)
	Debt-Capacity World Government Bond Index (DCWGBI)		FTSE RAFI World Corporate Investment-Grade Bond Index
	MPF World Government Bond Index (MPF WGBI)		FTSE Time-Weighted US Fallen Angel Bond Index
	FTSE RAFI Sovereign Developed Markets Bond Index Series		FTSE Ideal Ratings Sukuk Index

EMEA	
	FTSE CEEMEA Government Bond Index
	FTSE EMU Government Bond Index (EGBI)
	FTSE Swiss Government Bond Index
	FTSE Portuguese Government Bond Index
	FTSE Greek Government Bond Index
	FTSE Saudi Arabia Government Bond Index
	FTSE Nigerian Government Bond Index
	FTSE Euro Broad Investment-Grade Bond Index (EuroBIG®)
	FTSE MENA Broad Bond Index

A comprehensive flexible suite of benchmarks

5+
comprehensive packages

50+
headline indexes

5,000+
granular sub-indexes

5,000,000+
risk and return statistics reported daily

Spanning the entire spectrum of fixed income opportunities

Underpinned by transparent, rules-based construction and best-in-class governance

Powered by global perspective and collaboration

An integrated set of solutions for every stage of the investment process

Sustainable Investment indexes

MOTIVATION

"I want to achieve broad market returns and index characteristics with improved ESG attributes."

MOTIVATION

"I want to integrate ESG into specific factor or smart beta strategies."

MOTIVATION

"I want selective investments that align with my ESG objectives."

Sustainable Investing Data

ESG
Ratings

Controversial
Conduct

Carbon
Emissions

Fossil Fuel
Reserves

Green
Revenues

Product
Screens

FTSE ESG Index Series

Industry neutral and ESG-tilted weighting; no exclusions

FTSE Blossom Japan Index

Industry neutral weighting, with selection based on comprehensive ESG ratings

FTSE Green Revenues Index series

Weighting based on percentage of company revenue from green products. No exclusions

FTSE Global Climate Index Series

Tilting based on three climate parameters. CO₂ emissions, fossil fuel reserves, green revenues

FTSE Women on Boards Leadership Index Series

Weighting based on Women on Boards ratio and Social Pillar score; no exclusions

FTSE Climate Balanced Factor index

Tilting based on three climate parameters plus four risk factors (Quality, Volatility, Size and Value)

FTSE4Good RAFI Index Series

ESG selection aligned with the FTSE4Good Index Series and RAFI (smart beta) weighting applied

FTSE4Good Global Minimum Variance Index

ESG screening aligned with FTSE4Good and Minimum Variance weighting applied

FTSE4Good Index Series

Inclusion based on comprehensive ESG rating, with some negative exclusions (coal, weapons, tobacco), market capitalization weighted

FTSE Environmental Markets Index Series

Inclusion based on percentage of revenue from green products, market capitalization weighted

FTSE Divest-Invest Index Series

Exclusions of fossil fuels and "re-invest" based on percentage of revenue from green products

FTSE ex Fossil Fuels Index Series

Exclusion of fossil fuels, market capitalization weighted

An aerial photograph of a rugged coastline. The top half of the image shows dark, jagged rock formations and cliffs. The water below is a vibrant turquoise color, indicating shallow depths and possibly coral reefs or sandy bottoms. The bottom half of the image transitions into a deeper, darker blue water. The overall scene is dramatic and scenic.

Section 3

FTSE Frontier Emerging Markets Government Bond Index Series

Spanning the entire fixed income spectrum to open new opportunities for investors

GLOBAL	
	FTSE World Government Bond Index (WGBI) ¹
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	FTSE World Money Market Index
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	FTSE Euroyen Bond Index

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	Government
	Broad
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	Other

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	FTSE Vietnamese Government Bond Index
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	FTSE Australian Broad Investment-Grade Bond Index (AusBIG®)
	FTSE Chinese (Onshore CNY) Green Bond Index

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	Climate Risk-Adjusted Euro Government Bond Index (CLMTEGBI)		FTSE Advanced Climate Risk-Adjusted Euro Government Bond Index (ACLMTEGBI)
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	MPF World Government Bond Index (MPF WGBI)		FTSE Time-Weighted US Fallen Angel Bond Index
	FTSE RAFI Sovereign Developed Markets Bond Index Series		FTSE Ideal Ratings Sukuk Index

EMEA	
	FTSE CEEMEA Government Bond Index
	FTSE EMU Government Bond Index (EGBI)
	FTSE Swiss Government Bond Index
	FTSE Portuguese Government Bond Index
	FTSE Greek Government Bond Index
	FTSE Saudi Arabia Government Bond Index
	FTSE Nigerian Government Bond Index
	FTSE Euro Broad Investment-Grade Bond Index (EuroBIG®)
	FTSE MENA Broad Bond Index

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granular sub-indexes

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risk and return statistics reported daily

Spanning the entire spectrum of fixed income opportunities

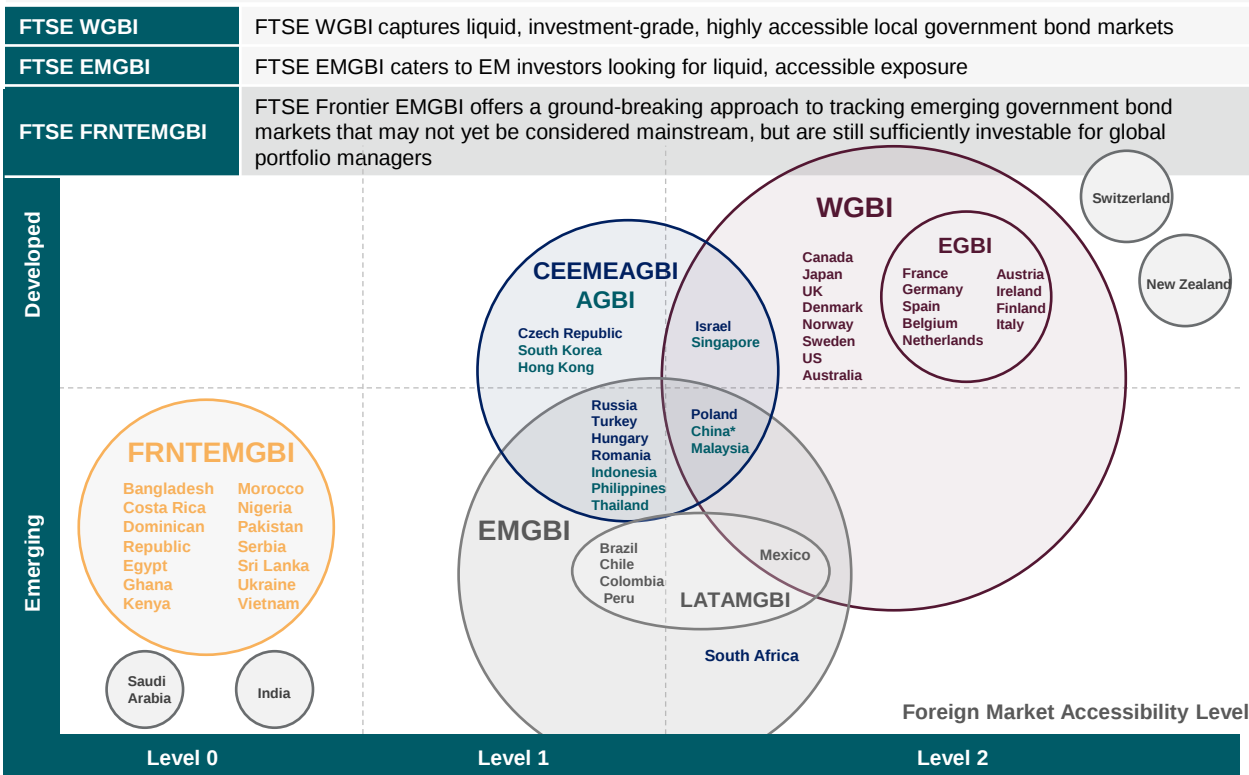
Underpinned by transparent, rules-based construction and best-in-class governance

Powered by global perspective and collaboration

An integrated set of solutions for every stage of the investment process

FTSE Local Government Bond Market Approach

FTSE provides a comprehensive view across the entire global government bond market development spectrum



- FTSE Russell leverages expertise in indexing global government bond markets to offer first solution for tracking ‘frontier emerging markets’
- New index provides performance metric for high yielding and expanding part of global debt markets

Representative:

The index provides broad, comprehensive coverage of frontier emerging markets with the following countries eligible at index launch: Bangladesh, Costa Rica, Dominican Republic, Egypt, Ghana, Kenya, Morocco, Nigeria, Pakistan, Serbia, Sri Lanka, Ukraine and Vietnam.

Transparent:

The index is constructed according to a transparent, publicly available set of rules that were designed incorporating extensive feedback from market participants.

Pricing:

The index is underpinned by best in class pricing and reference data sourced from Refinitiv with history available from January 2018.

Customizable:

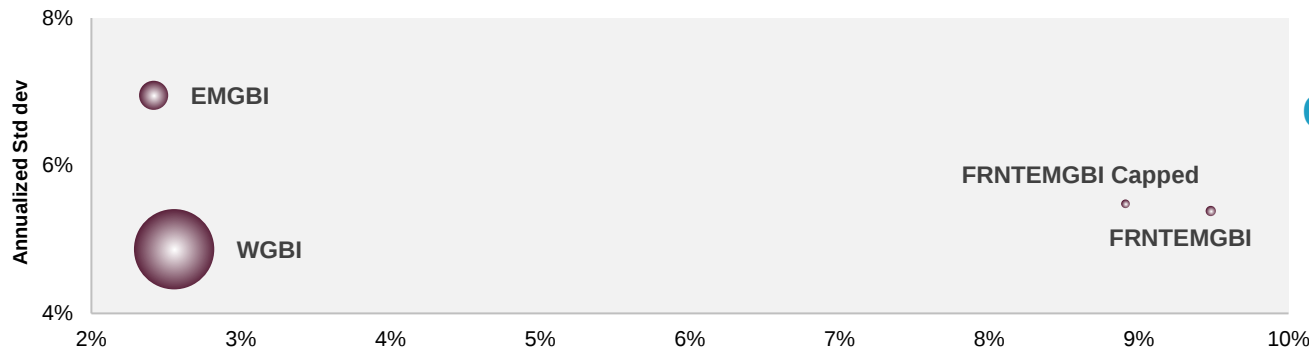
The index is fully customizable based on a wide range of attributes, including currency and term.

Market Inclusion:

Reviewed on a semi-annual basis each March and September, aligned with the FTSE Fixed Income Country Classification Process.

Government Bond Market Risk Return Profiles

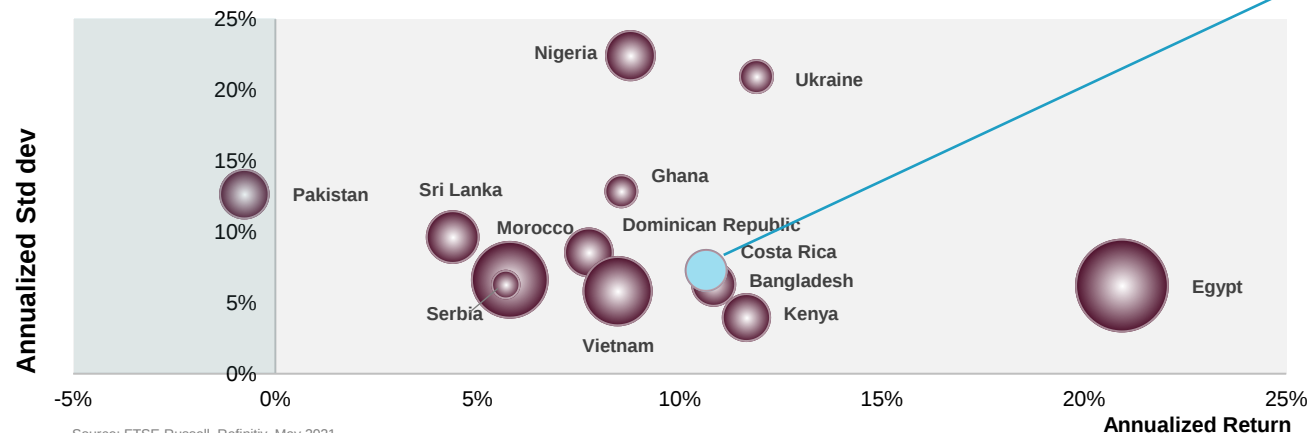
FRNTEMGBI, FRNTEMGBI Capped vs WGBI and EMGBI



Costa Rica Government Bond sub-indexes

IndexTicker	NumIssues	Coupon	Price	YldtoMat
FRNTEMGBI_CR	34	10.1205	119.2716	5.3792
FRNTEMGBI_CR_1-3	12	9.4648	111.6566	3.2715
FRNTEMGBI_CR_3-5	7	9.9468	117.6592	4.971
FRNTEMGBI_CR_5-7	4	10.2885	121.3533	5.9006
FRNTEMGBI_CR_7-10	5	10.5119	123.9251	6.7075
FRNTEMGBI_CR_10-15	6	11.1127	129.6822	7.4807
FRNTEMGBI_CR_1-5	19	9.6589	114.0737	3.9783
FRNTEMGBI_CR_5-10	9	10.4243	122.9166	6.3951
FRNTEMGBI_CR_1-10	28	9.9926	117.9297	5.0771
FRNTEMGBI_CR_10+	6	11.1127	129.6822	7.4807

FRNTEMGBI Country Risk/Return Profile



Source: FTSE Russell, Refinitiv, May 2021

Methodology highlights FRNTEMGBI

	FTSE Frontier Emerging Markets Government Bond Index (FRNTEMGBI)		
COMPOSITION	Fixed-rate, local currency sovereign debt. Central bank debt is included for Costa Rica and Dominican Republic. Infrastructure bonds are included for Kenya.		
AMOUNT OUTSTANDING	1 2 Bangladesh: BDT 15 billion Costa Rica: CRC 100 billion Dominican Republic: DOP 10 billion Egypt: EGP 1.5 billion Ghana: GHS 500 million Kenya: KES 15 billion Morocco: MAD 2 billion Nigeria: NGN 10 billion Pakistan: PKR 20 billion Serbia: RSD 10 billion Sri Lanka: LKR 50 billion Ukraine: UAH 2.5 billion Vietnam: VND 5 trillion		
MAXIMUM MARKET SIZE	Maximum market size of \$50 billion in index-eligible par amount outstanding. For purposes of inclusion in the index series at the Index Launch in April 2021, the maximum market size was assessed as of the Index Base Date in December 2017. Countries are not excluded from the index series if they exceed the maximum market size after their inclusion.		
MINIMUM MARKET SIZE	Minimum market size of \$5 billion in index-eligible par amount outstanding. For purposes of inclusion in the index series at the Index Launch in April 2021, the minimum market size was assessed as of this date. Countries are not excluded from the index series if they fall below minimum market size.		
MARKET ACCESSIBILITY LEVEL	Countries must be assigned a Market Accessibility Level of 0 based on the FTSE Fixed Income Country Classification Process.		
CREDIT RATING	Maximum of BBB- from S&P and Baa3 from Moody's. Countries without a long term local currency sovereign rating from Moody's or S&P are excluded. Countries are not excluded if their rating is upgraded above BBB- by S&P or Baa3 by Moody's after entry.		
WORLD BANK CLASSIFICATION	Countries classified as High Income are excluded.		
EXCLUSION	Treasury bills, private placements, and securities without pricing		
PRICING	6 Refinitiv bid-side pricing. 4pm New York: Costa Rica, Dominican Republic 4.15pm London: Egypt, Ghana, Kenya, Morocco, Serbia, Ukraine 6:00 pm London: Nigeria 6:00 pm Tokyo: Bangladesh, Sri Lanka, Vietnam, Pakistan		
REINVESTMENT RATE	Cash flows are not reinvested as part of the calculation of index total return.		
COUPON TYPE	Fixed-rate and zero coupon		
MATURITY	At least one year to maturity		
SETTLEMENT	T+0		
REBALANCING	Once a month at the end of the month		
BASE DATE	December 31, 2017		

Key Features and Differentiators

- 1 Tracks the full investment choice set for each market, ensuring the index serves as an accurate, comprehensive performance measure
- 2 Locally calibrated minimum amount outstanding thresholds ensure the most liquid issuance is captured
- 3 Market size criteria are designed to capture emerging markets that are not yet mainstream, but are sufficiently investable for global sovereign EM investors
- 4 Builds on the FTSE Fixed Income Country Classification Framework, adding 13 new markets to FTSE's Fixed Income local market tracking.
- 5 Ensures country inclusion is governed by a transparent, forward looking review process which incorporates feedback from market participants
- 6 Powered by robust bid-side pricing and reference data from Refinitiv

The first, ground-breaking way of measuring frontier emerging markets

Offers a yield pickup relative to emerging markets

Offers diversification away from USD and foreign exchange appreciation from exposure to local currencies with stronger economic growth

Builds on the FTSE Fixed Income Country Classification Framework, adding new markets to FTSE Fixed Income local market tracking

Source: FTSE Russell. FTSE Frontier Emerging Markets Government Bond Index, April 2021.

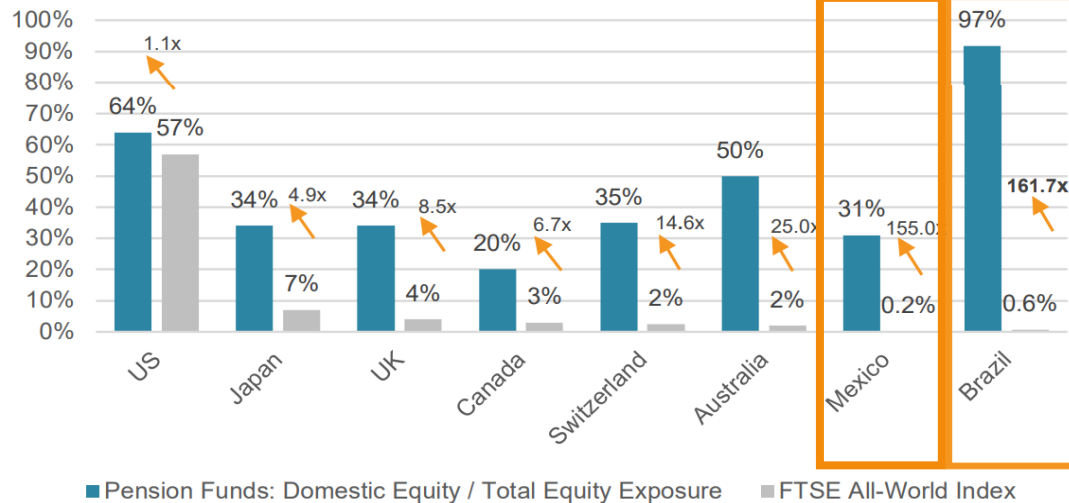
The logo consists of a dark maroon circle with the text "FTSE" and "Russell" in white, bold, sans-serif font, stacked vertically in the center.

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LatAm vs DMs

Pension Funds Domestic Exposure Relative to Total Equity Weight and FTSE All-World Country Exposure 2020e (%)



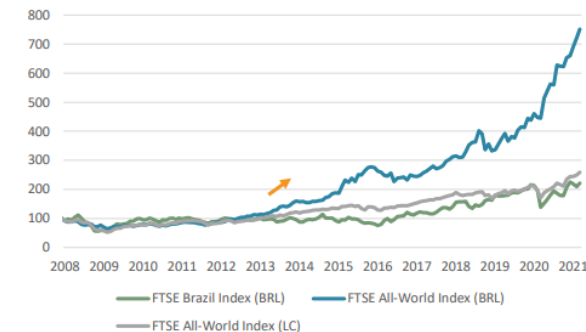
Towers Watson "Global Pension Assets Study 2021", 2020e, CONSAR as of Dec 2019, FTSE Russell & ABRAPP as of Dec 2020.

Chart 5: Cumulative total returns of the FTSE Mexico Index and the FTSE All-World Index (MXN & local currency), rebased - Absolute



Source: FTSE Russell from December 31, 2007 to September 30, 2020 (Q3 2020). Past performance is no guarantee of future results. Please see the end for important legal disclosures.

Chart 5: Cumulative total returns of the FTSE Brazil Index and the FTSE All-World Index (BRL & local currency), rebased - Absolute



Source: FTSE Russell from December 31, 2007 to March 31, 2021 (Q1 2021). Past performance is no guarantee of future results. Please see the end for important legal disclosures.

Index and index data are used across all client segments throughout their investment processes

Indexes are used across institutional and retail investors as well as academic institutions

Asset Owners

Consultants

Custodians

Investment Managers

Hedge Funds

Brokers

Derivative Traders

Wealth Managers

Exchanges

Financial Advisors

Analytics Providers

Individual Investors

Professors / Students

Third-party platforms

WHY?

For many reasons...

- ✓ Analyze active manager performance
- ✓ Understand and model asset classes
- ✓ Performance and weighting for allocation decisions
- ✓ Be aware of active bets
- ✓ Equitize cash
- ✓ Manage passive funds
- ✓ Market timing bet (short)
- ✓ Index arbitrage
- ✓ Risk management
- ✓ Offer passive alternatives
- ✓ Purchase passive alternatives such as ETFs, passive mutual funds, etc.
- ✓ Study markets

...and evolving

Importance of a benchmark



Total period performance
(Jan 2009 to Mar 2021)



Are we aware of the active bets in our portfolios?
Are fees and commissions aligned to the actual returns we are getting?

Source: Funds Society, Consar, FTSE Russell

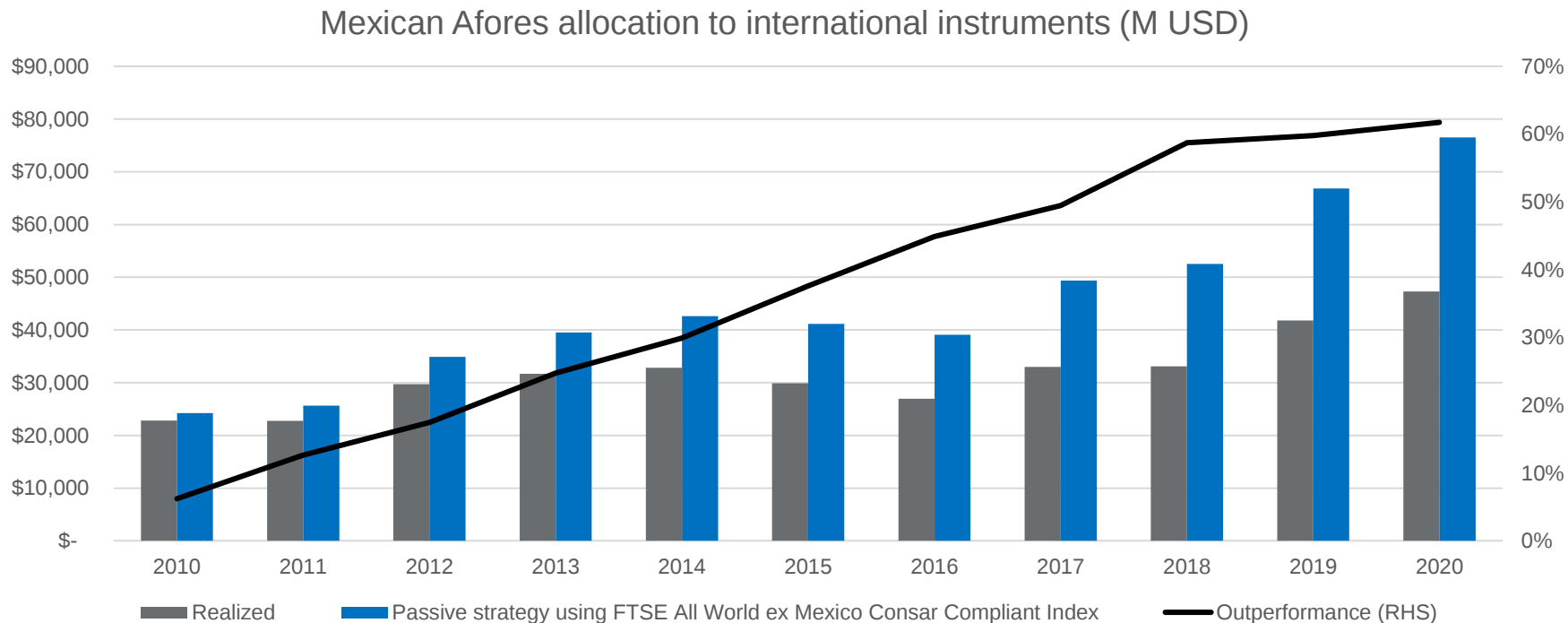
Is licensing an index a good investment? (1/2)

Table 4: Correlation of Emerging Market bond index returns with other asset classes

Asset class index	EMGBI (LC)	EMUSDGBI (USD)	EMUSDBBI (Corp Capped) (USD)	EGBI Govt (LC)	US BIG (Credit) (USD)	US High Yield (USD)	US Trsy (USD)	FTSE USA (Equity) (USD)
EMGBI (LC)	1.00							
EMUSDGBI (USD)	0.70	1.00						
EMUSDBBI (USD)	0.64	0.95	1.00					
EGBI (LC)	0.34	0.20	0.45	1.00				
US BIG (Credit) (USD)	0.61	0.75	0.84	0.35	1.00			
US High Yield (USD)	0.33	0.73	0.85	-0.08	0.60	1.00		
US Treasury (USD)	0.47	0.08	0.03	0.46	0.38	-0.34	1.00	
FTSE USA (Equity) (USD)	0.20	0.61	0.58	-0.07	0.36	0.71	-0.37	1.00

Source: FTSE Russell estimates January 2008 - April 13, 2020, EM Corp (USD) data is from 2013-April 13, 2020. Past performance is no guarantee of future results. Please see the end for important legal disclosures.

Is licensing an index a good investment? (2/2)

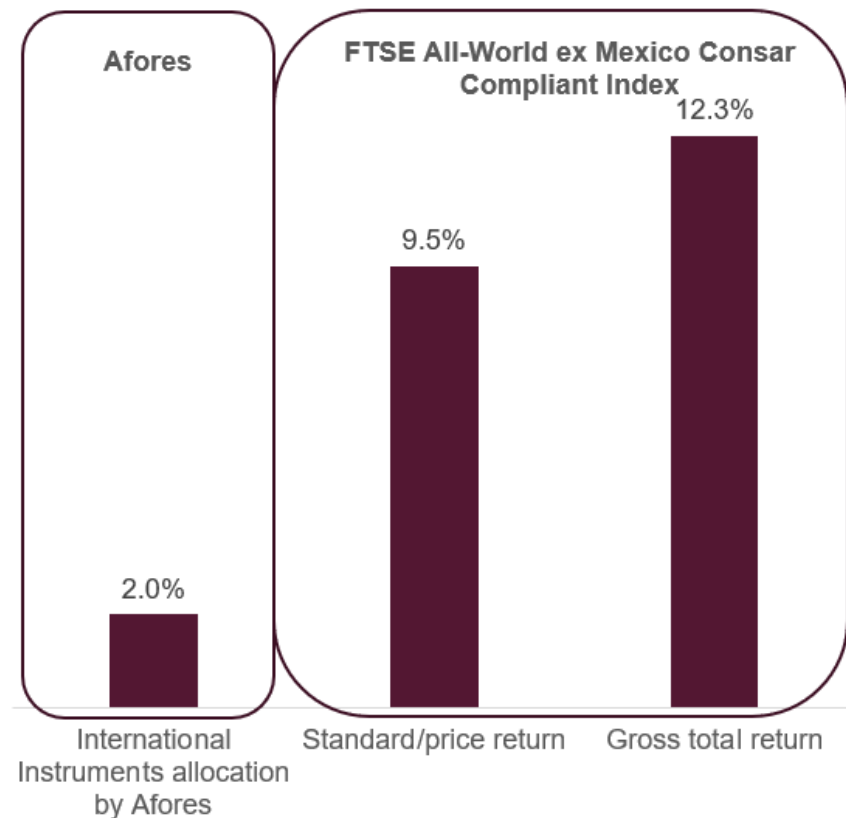


Sources

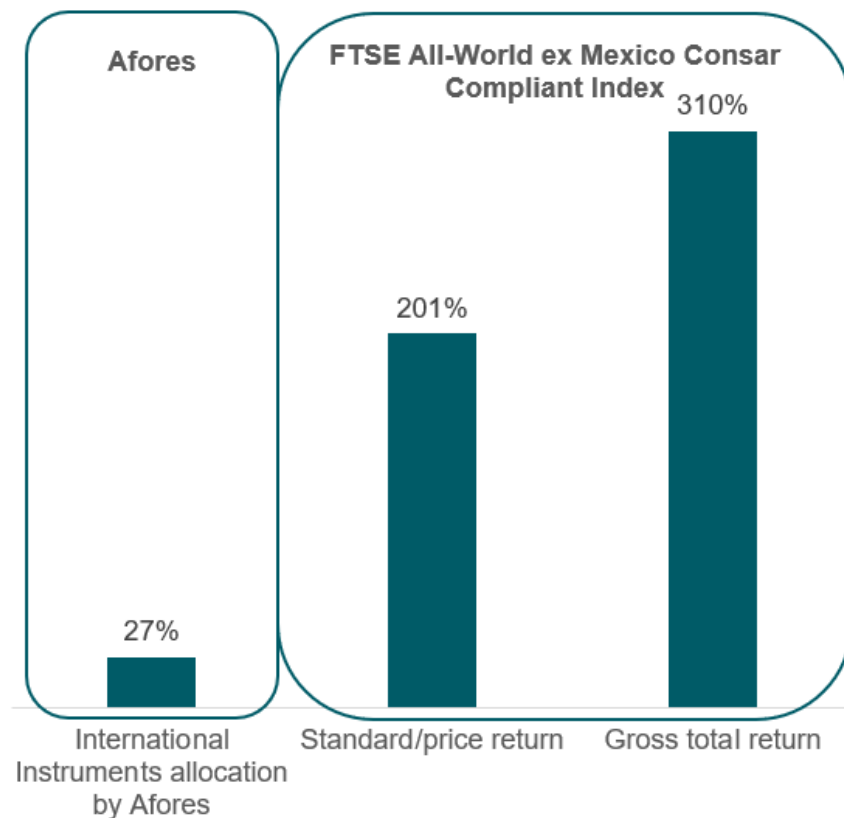
- FTSE Russell data
- [Building a better benchmark | FTSE Russell](#)
- [Indexes and benchmarks made clear | FTSE Russell](#)
- [FTSE Frontier Emerging Markets Government Bond Index \(product overview\)](#)
- [Consar](#)
- [Appraising home bias exposure – Mexico](#)
- [Appraising home bias – Brazil](#)
- [Emerging Market Fixed Income - Development and characteristics of the asset class | FTSE Russell](#)

Appendix

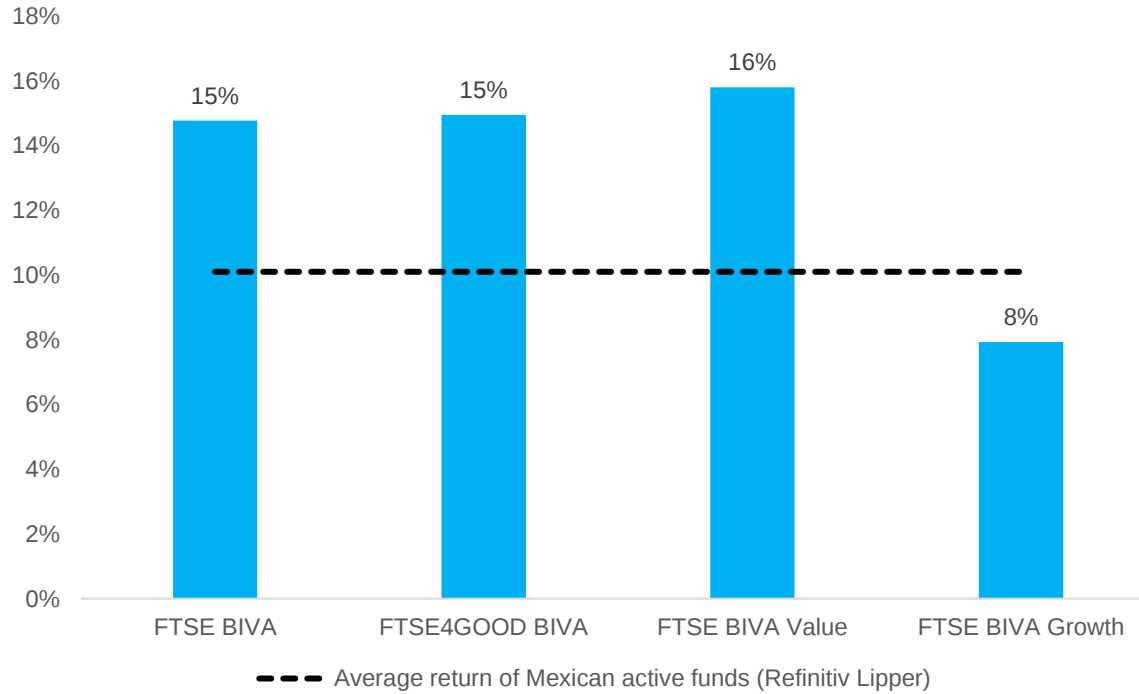
Annualized returns (Jan 2009 to Mar 2021)



Total period performance (Jan 2009 to Mar 2021)



FTSE BIVA Index Series performance (Gross Total Return in MXN as of June 2021 YTD)



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