

FTSE Canada CFIF Meeting Update

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Discussion Topics

1 FTSE Russell Updates

- FTSE Russell acquired minority interest to assume 100% stake ownership of FTSE TMX Global Debt Capital Markets Limited through FTSE International Limited
- FTSE International Limited authorized as a benchmark administrator under the European benchmark regulation (EU BMR)
- Development Update
- 2 CFIF Feedback Update
- 2.1 Advisory committee sell-side input
- 2.2 Transparency and Communication
- **2.3** Price Challenge Handling

FTSE Canada Fixed Income **1. FTSE Russell Developments**

FTSE Russell assumes 100% stake ownership of FTSE TMX Global Debt Capital Markets Ltd

- In April 2018, FTSE Russell completed the purchase from TMX Group Limited ("TMX") and MTS S.p.A ("MTS") of their respective minority shareholdings in FTSE TMX Global Debt Capital Markets Limited ("FTSE TMX") to acquire 100% ownership of FTSE TMX
- This acquisition is an important milestone in our commitment and investment in the Canadian benchmarks, data, and analytics offering, and enables us to further the development agenda to deliver value to the user base
- The business in Canada will continue to be overseen by a robust governance framework, taking into account local market conventions, and in line with international regulatory standards
- The business continues to be operated by a highly experienced local team, with support from global resources. The team has continued to focus on successful delivery and support of the FTSE Canada products through the acquisition
- The **indexes will be rebranded** from FTSE TMX Canada **to FTSE Canada**. The corporate in Canada has been renamed to FTSE Global Debt Capital Markets Limited.
- Our intent is to make this as seamless as possible for our clients and provide ample notice, detailed information and support to facilitate the rebrand. A dedicated web page is being set up to provide information and updates and a dedicated email to address any client queries

FTSE International authorized as a benchmark administrator under the EU BMR

- In June 2018, UK's Financial Conduct Authority (FCA) granted FTSE International Limited authorisation as a benchmark administrator, under the European benchmark regulation (EU BMR)
- EU BMR introduces a common framework to ensure the accuracy and integrity of indexes used as benchmarks in the European Union
- FTSE Russell fully supports objectives of EU BMR and has been involved in its formation
- We believe this regulation **leads global best practice standards in index governance** and are committed to operating in line with EU BMR across indexes and geographies
- The FCA authorisation is comprehensive across asset classes, and covers the FTSE, Russell, FTSE TMX and FTSE MTS equity and fixed income indexes
- FTSE International Limited is listed on <u>FCA register</u> and <u>ESMA register</u> for administrators
- Benchmark statements will be available on FTSERussell.com to help users comply with their direct obligations with respect to EU BMR
- We continue to assist our clients as they address the implications of the regulations to benchmark users through dedicated web pages, direct communications and meetings
 - Regulation <u>http://www.ftse.com/products/indices/regulation</u>
 - > EU BMR <u>http://www.ftserussell.com/eu-benchmark-regulation</u>
 - Summary http://www.ftse.com/products/downloads/FTSE_Russell_Governance_Framework.pdf

FTSE Canada Development Update

- Recently Launched (April 2018) FTSE Canada 0+ Universe Bond Index Series
- Slotted for release in Q3 2018 Syndicated NHA MBS Index and pricing
- Multi Asset Products
- ESG Indexes
- Analytics

FTSE Canada Fixed Income 2. CFIF Feedback Update

CFIF Feedback Update

- FTSE Russell attended a meeting with the CFIF in October 2017 and received comments on areas for potential improvement on engagement in the Canadian market
- The key takeaways covered the following areas:
 - 1) Advisory committee sell-side input
 - 2) Transparency / communication style
 - 3) Price challenges
- We have engaged with the market to provide information on our processes, index management and governance framework, as well as to facilitate enhancements in all these areas

FTSE Canada Fixed Income 2.1 Advisory Committee – Sell Side Input

FTSE TMX Canada Dealer Forum

- FTSE Russell has implemented a local market focused addition to our overall governance structure the Canada Dealer Advisory Forum
- The Forum is intended to facilitate a formal framework for feedback with our dealer partners and focuses on the following:
 - 1. Information sharing about index developments
 - 2. Engagement around new issue types introduced to the Canadian capital markets and expected index treatment to promote transparency
 - 3. Enhancements to the price blender methodology, including price challenge process
- The Forum includes all contributing dealers and meets three times year in parallel to the buy side focused Advisory Committee
- The inaugural meeting of the Forum convened in March 2018, and the first formal meeting took place on June 5, 2018
- Next meeting dates are:
 - 2018 September 24 / 2019 January 22, May 14, and September 23

FTSE Russell Governance Framework

	FTSE International Board						
		(Sales, O	1 st line perations, Data, IT)	2 nd Line (Risk, Compliance)	3 rd Line (Audit)		
hational	Inf	ormation Services Ma	nagement Team (Ex			A	
	Product Governance Board		Service Review Board	IT Portfolio Board	Oversight	: Committee	Administrator and Service Provider
FTSE International	Operational Forum - Equity	Commercial Policy Steering		External	Canada Advisory mittee		nd Service P
	Operational Forum Fixed Income	Data Steering Committee	FTSE Canada Dealer Advisory Forum				rovider
	Methodology Forum Equity	Technical Assessment					
	Methodology Forum Fixed Income						

FTSE Canada Fixed Income 2.2 Transparency and Communication

Transparency – Availability of Information

- Transparency, along with robust governance and integrity, are at the core of our business and is evident in our approach to index management and oversight
- Index Ground Rules, Policies for handling methodology changes and decommissions, as well as Statement of Principles for Fixed Income are public
- Rules are reviewed on a regular basis (at least annually) to ensure that they continue to meet the current and future requirements of investors through engagement with the FTSE Canada Fixed Income Advisory Committee
- External oversight to confirm adherence to various internal controls and regulatory principles is provided through external audit (KPMG is engaged) and available to users for review:
 - IOSCO Principles Statement of Compliance
 - ISAE 3000 Operational Controls Type I and Type II
 - European Benchmark Regulation (includes FTSE Canada Fixed Income)

Transparency – Communication of Changes

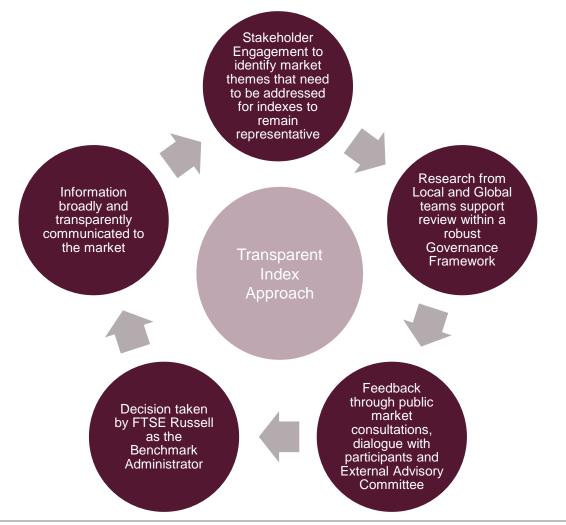
• Any proposals for amendments to an index methodology follow a robust protocol (<u>http://www.ftse.com/products/downloads/FTSE_Russell_Policy_for_Benchmark_Methodology_Changes.pdf</u>) and are subject to consultation with external advisory committee or broad market

Consultation with External Advisory Committees	Broad Stakeholder Consultation	
Consult on changes to the ground rules that dictate how we manage the index, for example:	 Changes to rules that might significantly affect index composition including: eligibility criteria, 	
corporate action treatment,free float definitions,	 construction rules, reconstitution frequency. 	
 investability weight adjustments for stocks nearing their foreign ownership limits). 		

• FTSE Russell Product Governance Board makes the <u>final decision</u> and any resulting impacts are clearly communicated to the market via published Index Notices (<u>https://www.ftse.com/products/index-notices/</u>) and client announcements

Market Consultation Approach

FTSE Russell regularly consults the market for input on changes to the index methodologies and provides feedback in broad, clear and transparent fashion



Examples of Past and Present Consultations

- Index Evolution Pathway
- NVCC Inclusion
- NVCC Implementation
- Minimum Issue Size Criteria (current)

The various FTSE Russell consultations can be viewed on our public website <u>https://www.ftse.com/products/</u> <u>indices/market-consultations</u>

Dedicated Website Portal – FTSE Canada

- In an effort to provide users of FTSE Canada Fixed Income products an easy way to access all information relating to the indexes and stay informed of any developments, market consultation, and announcements, we are collating all relevant links in a dedicated FTSE Canada web page (to launch Q3 2018)
- Prototype samples of what is expected to be included are in screen prints below

FTSE Canada Fixed Income

IOSCO Principles

FTSE Russell has issued a Statement of Compliar Organization of Securities Commissions (IOSCO) Principles). Independent assurance of the assertio received from KPMG LLP. FTSE Russell fully emb address conflicts of interest in the benchmark-setti promote transparency and openness. FTSE Canar Statement each year since 2015. View the current

Internal Controls Assurance Report (ISAE

The Internal Controls Assurance Report is intende part of their operational due diligence, seek assura the FTSE Canada Universe Bond Index Series. KF suitability and operating effectiveness of the contro recognized international standard, developed and Board (IAASB) as the umbrella framework for assu

Two assurance reports were obtained for the FTSI detailed FTSE Canada's key procedure controls a: opines on the operational effectiveness of controls reports may be obtained for internal review from or

European Benchmark Regulation

The FTSE Russell governance framework is desig that applies from 1 January 2018. FTSE Internatio Authority for authorisation as an EU based adminit Russell, FTSE TMX and MTS indexes known to be indexes acquired from Citigroup Indices LLC in Au renamed FTSE Fixed Income LLC, according to th such time as the administration of those indexes h available <u>here</u>. FTSE Russell operates a comprehensive fixed income business in Canada which supports the market ecosystem through provision of benchmark indexes, end of day bond pricing services, as well as robust risk and performance analytics.

FTSE Canada Fixed Income Indexes

The FTSE Canada Fixed Income Index Family covers a multitude of asset categories and debt types in the Canadian markets with 600+ indexes across 20+ index series, including the flagship FTSE Canada <u>Universe Bond Index Series</u>

With over 40 years of published history, FTSE Canada Fixed Income Index Series are available through multiple analytics platforms. The indexes are administered in accordance with a Transparent Rules Based <u>Methodology</u>, featuring modular construction, inclusion considerations, classification and rating schemes tailored to the local market convention and best representing the investor opportunity set in Canada. Custom Index Solutions are available on demand.

Important Dates for 2018/2019					
Canada Bond Market Holidays*	Advisory Committee Meetings	Dealer Advisory Forum Meetings			
 January 23rd 2018 	 Januaryrd 2018 	 Januaryrd 2018 			
 May 15th 2018 	 May 15th 2018 	 May 15th 2018 			
 September 24th 2018 	 September 24th 2018 	 September 24th 2018 			

idex is not published on Canada Bond Market Holiday

FTSE Canada Bond Pricing Service FastQuote

FTSE Russell provides official market close prices (4pm) for in and out of benchmark bonds in Canada through the FasQuote end of day pricing service. The <u>Multi Dealer Pricing Methodology</u> is used to gather contributions from primary dealer brokers, anchored in traded prices to create a market composite blended price. Supported by a robust price challenge policy, the goal is to provide transparency to an opaque OTC bond market. Prices are used to calculate the ETSE Canada Eived Income Indexes and available to market nativinants (Investors Market Makers Multial Eurofs



Resources

FTSE Canada Universe Bond Index Series Multi Dealer Pricing Methodology Index Methodologies Index Announcenments Market Consultations

Regulatory Compliance

IOSCO Principles FTSE Russell Governance Framework External Advisory Committees European Benchmark Regulation IASE 3000 – Type I Assurance Report IASE 3000 – Type II Assurance Report

page.

Regulation

Governance

Robust governance, transparency and

regulatory landscape and stakeholder

concern for our clients. FTSE Canada

The FTSE Canada Fixed Income busi

overarching Governance Framework,

including the FTSE Canada Fixed Inc.

advisory committees ensure that the ir

clients' needs. Related Links: Latest C

With the guidance and direction of FT:

consults the market on changes to the

requirements and define and lead glot

governance process and helps ensure

markets they are designed to track. For

FTSE Russell is committed to leading

for transparent, robust and rules-drive

regulatory standards, capturing the be

Market Consultations

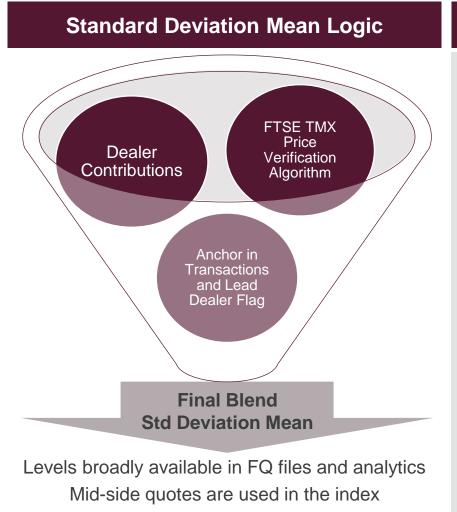
Market Engagement

- We have engaged across several market segments to provide information on our products, governance and decision making process
 - Series of client centric seminars and meetings
 - Engagement with and presentations to CBIA, IIAC, and CFIF
 - Broadened external advisory committee membership
 - Implementation of FTSE Canada Dealer Advisory Forum

FTSE Canada Fixed Income 2.3 Price Challenge Process

Multi Dealer Pricing Methodology

FTSE TMX Canada Multi Dealer Pricing Methodology Guide publicly available to all users http://www.ftse.com/products/FTSETMX/Home/MultiDealerPricing



Price Verification Approaches

- Scrub mechanisms aim to remove stale or off-market prices which could possibly distort the final price.
- The scrub mechanisms:
 - utilize the database, by reviewing historical volatilities of daily yields;
 - review the lead dealer pricing;
 - review trade data (CDS, for trades with min size of \$500k) to identify contributions most in line with recent trades;
 - compare Dealer to Dealer valuations for each instrument

Price Challenge Policy

Anchoring

- Established policy allows users to challenge security prices to validate levels
- All challenges are anonymized and verified with contributors

Enhancing the Price Challenge Process

- FTSE Russell discussed approaches and potential enhancements to the price challenge process at the recent FTSE Canada External Advisory Committee and FTSE Canada Dealer Forum meetings with a view of implementing updates
- Suggestions and recommendations shared at these meetings are being taken into account in redesigning the engagement process
- Several streams have been undertaken, with buy in from participants, to facilitate this:
 - Track receipt of challenges and resulting actions to provide metrics to the committees
 - Enhanced reporting provided to contributing dealers to assist in review and feedback on price challenges
 - Continued engagement through the advisory committees to review metrics on price challenges issued and resolutions undertaken
- Commitment from all stakeholders to enhance the experience
- Actions taken with a view to introducing enhancement to the price blender



Thank you

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