

Eurex FI ESG Index Futures

March 2023

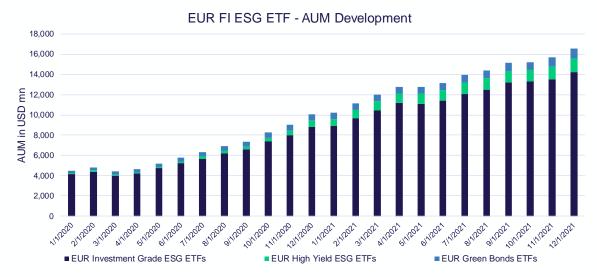
Agenda

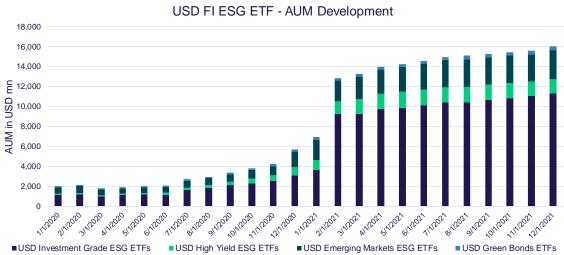
1	Introduction	6	Wholesale Offering
2	Eurex ESG Ambition & Roadmap	7	Liquidity Providers
3	Futures on Euro Corporate SRI Index	8	Contact Details
4	Futures on Global Green Bond I ndex	9	Appendix
5	Opportunities in Trading Eurex FI ESG Futures		



Introduction

Significant market growth and adoption of ESG principles in FI investing







Comments

- Looking at the ETF market as a proxy, 2020 and 2021 saw a significant growth of AUM in both EUR and USD AUM, which focused in IG corporate.
- In the US, the greatest winners of 2021 were USD IG and hard currency emerging markets, which saw their AUM soar in 2021.
- The green and sustainable bond market continues to exhibit exponential growth in issued amounts.
- This market will see new participants, such as the EU Commission and several other European Government agencies.

EUREX



2 Roadmap

Eurex aims to become the global venue for listed ESG derivatives for EUR and USD denominated products



Global venue of EUR fixed income derivatives

- Global leader of ESG listed derivatives in the equity space
- Price transparency and compliance with regulation through the Central Limit Order-book

Clearing through Central Counterparty

ESG Compliance

Allow Asset managers to **best adapt** their strategies to comply with **strict ESG** mandates

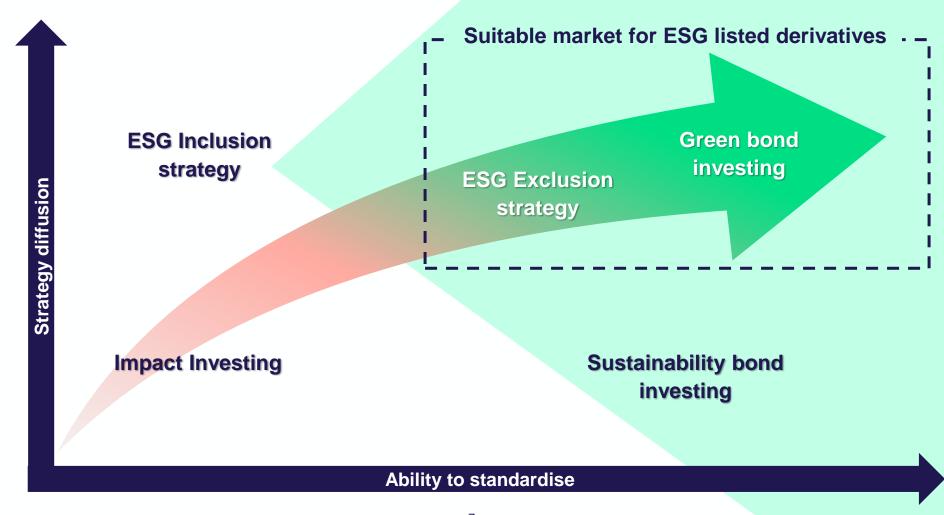
Risk Management

- Offer the market an efficient and costeffective solution
- Optimally manage risk of ESG-driven portfolios

Additional Alpha

Generate additional alpha with synthetic exposure to ESG fixed income securities

To date, only few of the investment themes in the fixed income ESG space can be leveraged to offer a tradable standardized contract



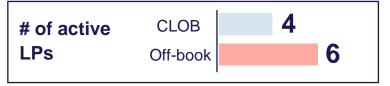
FECX Volume and Open Interest Development

New Fixed Income ESG index futures performed strongly in 2022, and now see over €732 million in outstanding notional and €15 bn in traded notional since launch in September 2021





Liquidity Provider picture



Overview of Trading Stats

- Total contracts since launch: 97,325
- ADV in 2023: 82 contracts
- Open Interest as of January 31th 2023:
 5,081 contracts



Solution Euro Euro Corporate SRI Index

Eurex Futures on Euro Corporate SRI index: Contract Specification

Bloomberg ticker of the index: RECMTREU Index				
Contract Standard	Bloomberg MSCI Euro Corporate SRI Total Return Index Value Unhedged EUR			
Eurex Product code	FECX			
Contract Value	EUR 1,000 per index point			
Minimum Block Trade size	8			
Price Quotation Tick Size / Tick value	In points with two decimal places / 0.01 Points = EUR 10			
Trading hours	8:00 a.m. to 7:00 p.m. CET			
Contract Months	The three nearest quarterly months of the March, June, September and December cycle			
Last Trading Day/ Final settlement day	Third Friday of each maturity month if this is an exchange day; otherwise the exchange day immediately preceding that day; close of trading in the maturing futures on the last trading day is 17:15 CET. Final settlement day is the exchange day immediately following the last trading day			
Final settlement Price	The final settlement price is established by Eurex on the final settlement day of the contract and is based on the closing price of the index (TR, EUR) on the last trading day.			
Daily settlement price	Determined from the volume weighted average of all transactions during the minute before 17:15 CET (reference point), provided that more than 5 trades transacted within this period			
Settlement	Cash settlement, payable on the first exchange day after following the expiration day			
Vendor codes	Bloomberg: LXYA Index; Refinitiv RIC: 0#FECX:			

The Euro Corporate SRI Index (RECMTREU Index)

Key Index statistics

Components	3,050
Market Value	EUR 2.032 tn
Amount Outstanding	EUR 2.247 tn
Average Coupon	1.69
Average Maturity	5.03
Average Duration	4.67
Rating	A3 / BAA1

Methodology

• Investment Grade, Euro-denominated corporate bond universe satisfying the below criteria:



At least 1 year until final maturity



EURO denominated



Investment Grade (rating BBB or higher)



Minimum amount outstanding of Eur300MM



Fixed Coupon

• MSCI Business Involvement Screening: exclude issuers involved in business lines/activities as per the standard Bloomberg MSCI SRI screen:



Exclusions

Index

Alcohol



Gambling





Civilian Firearms



Thermal Coal











• MSCI ESG Controversy Score: exclude issuers with a Red (0) score – i.e. companies involved in a current, major ESG problem.

Total return comparison with the Euro corporate aggregate index – all relevant index key statistics closely match the benchmark



The ESG Exclusion index closely tracks the Euro Corporate IG benchmark



- The fixed income ESG space lacks an official index benchmark
- The exclusion index plays as de-facto benchmark and was very well received by the buy-side community since its launch



Statistics of Total Returns – 2018/01 to 2023/01

Statistics	SRI Exclusion	on Euro Corporate (benchmark)	
Annual Average Returns	-1.64%	-1.62%	
Annual Average STD	4.23%	4.27%	
Average Sharpe Ratio Overall	-0.34	-0.33	
Min Daily Return	-2.20%	-2.22%	
Max	1.43%	1.42%	

EUREX



Eurex Futures on Global Green Bond Index

Eurex Futures on Global Green Bond index: Contract Specification

Bloomberg ticker of the index: GBGLTREU Index			
Contract Standard	Bloomberg MSCI Global Green Bond Total Return Index Value Unhedged EUR		
Eurex Product code	FGGI		
Contract Value	EUR 1,000 per index point		
Minimum Block Trade size	40		
Price Quotation Tick Size / Tick value	In points with two decimal places / 0.01 Points = EUR 10		
Trading hours	8:00 a.m. to 7:00 p.m. CET		
Contract Months	The three nearest quarterly months of the March, June, September and December cycle		
Last Trading Day/ Final settlement day	Third Friday of each maturity month if this is an exchange day; otherwise the exchange day immediately preceding that day; close of trading in the maturing futures on the last trading day is 17:15 CET. Final settlement day is the exchange day immediately following the last trading day		
Final settlement Price	The final settlement price is established by Eurex on the final settlement day of the contract and is based on the closing price of the index (TR, EUR) on the last trading day.		
Daily settlement price	Determined from the volume weighted average of all transactions during the minute before 17:15 CET (reference point), provided that more than 5 trades transacted within this period		
Settlement	Cash settlement, payable on the first exchange day after following the expiration day		
Vendor codes	Bloomberg: LXAA Index; Refinitiv RIC: 0#FGGI:		

The MSCI green bond selection criteria are stricter but in line with the ICMA green bond principles – The Global Green Bond Index (GBGLTREU Index)

Key Index statistics

Components	1,134
Market Value	EUR 866.67 bn
Amount Outstanding	EUR 1.012 tn
Average Coupon	1.63
Average Maturity	8.33
Average Duration	7.18
Rating	AA3 / A1

Methodology

 Investment Grade bonds belonging to Treasury, Corporate, Government-related and Securitized sectors and satisfying:



Index

screen

Bond

Green

No maturity restrictions



Fixed Coupon



EUR (69%), USD (20%), CAD (3%), SEK (2.5%), GBP (2%), AUD (2%), other (1.5%)



Minimum amount outstanding of Eur300MM



Investment Grade (rating BBB or higher)

• Securities are independently evaluated by **MSCI ESG Research** along four dimensions to determine whether they should be classified as a **green bond**:



Stated **use of proceeds** indicated in the bond issuance prospectus



Process for management of proceeds



Process for green **project evaluation** and **selection**



Commitment to **ongoing reporting** of the environmental performance of the use of proceeds

 Both self-labelled green bonds and unlabelled bonds will be evaluated using these criteria for potential index inclusion (even if not marketed as green)

EUREX

Total return comparison with the Euro Global aggregate index – the Global Green bond index has a unique risk-return profile

- The Euro Global Aggregate is not the benchmark for the Global Green Bond index. Strictly speaking the Global Green Bond Index does not have a benchmark.
- The Global Green bond index has a different risk return profile from it's closest parent index. Futures on this index provide a cost-effective alternative to access this particular market.

Total return indices comparison - rebased on 1/1/2018 =100 125 100.00% 95.00% 120 90.00% 115 85.00% 75.00% 70.00% 65.00% 60.00% 55.00% 50.00% Global Green Bond Index - Bloomberg Indices lobal Aggregate - Bloomberg Indices

Statistics of Total Returns – 2018/01 to 2023/01

Index Stats	Global Green Bond Index - Bloomberg Indices	Global Aggregate - Bloomberg Indices
Annual Average Returns	-1.39%	1.37%
Annual Average STD	5.87%	6.37%
Average Sharpe Ratio Overall	-0.20	0.24
Min Daily Return	-1.74%	-1.45%
Max	1.67%	1.48%



Opportunities in Trading Eurex Fixed Income ESG Futures

Product Use Cases



Liquidity and cash management

- When large fund flows occur, it can be most efficient to "put the money to work" quickly via futures. This exposure can then be scaled down as individual securities are sourced.
- Employ available un-invested cash to get unfunded exposure to market returns.



Hedging purposes

- For a fund pursuing an active selection of bonds to outperform the market, futures can be used to temporarily reduce market exposure of a portfolio.
- Futures remove the need to pay high bid/offer spreads on bonds or run the risk of not being able to buy back securities when the need to reduce risk is over.



Portfolio overlay

- Futures can be used to increase or reduce market exposure in a portfolio, relative to its actual funded amount.
- **Synthetic replication** of an asset class, market or factor exposure.



6 Wholesale Offering

Wholesale Offering

Eurex Fixed Income ESG Futures can also be traded **outside the order book** on a **bilateral basis**, and subsequently booked to Eurex Clearing through the use of our **Eurex T7 Entry Service**.

Block Trading

- Members are able to enter bilaterally agreed off-book transactions into the trading and clearing system.
 Registered off-book trades are then automatically cleared like regular exchange transactions.
- The Block Trade Entry facility is fully electronic and integrated into members' processes (the exchange defines a minimum number of contracts for a Block Trade – see below).

Basis Trading

- Basis trading can also be facilitated by the Exchange for Physicals Index (EFP-I) functionality. An EFP-I
 against an ETF or a basket of bonds (the "Reference Instrument") can be entered, subject to certain
 criteria regarding notional size and correlation.
- Furthermore, FI ESG Futures can themselves be used as a "Reference Instrument" for an EFP-Fin trade against a government bond futures trade.
- There are no minimum entry size restrictions for EFP.

Minimum Entry
Size for Block
Trades

- Minimum block entry size has been kept to the minimum to facilitate the initial build up of Open Interest:
 - FECX: 30 contracts.
 - FGGI: 40 contracts
- There are no minimum entry size restrictions for EFP.



7 Liquidity Providers

Liquidity Providers

Liquidity Providers On-Screen			
Company	Contact	Phone number	
FlowTraders	Jasper Jansen Roel van der Weijst Quirien Raat nlbon@nl.flowtraders.com	+3120 7998621 +3120 7998741 +3120 7998741	
Société Générale	Aziz Tikouirt Arnaud Muller Remy Benchetrit Nicolas Lesceu list.par-mark-fic-trd-rat-etf@socgen.com	+33 142140365 +33 142149818	
Susquehanna	Ronan Henderson SIS-Sales-ETF@sig.com	+353 1 802 8018	

Liquidity Providers Off-Screen				
Company	Contact	Phone number		
Bank of America	Joel Stainton Joel.Stainton@bofa.com BofA_Futures_EMEA@bofa.com	+44 207 996 1885		
FlowTraders	Jasper Jansen Roel van der Weijst Quirien Raat nlbon@nl.flowtraders.com	+3120 7998621 +3120 7998741 +3120 7998741		
Goldman Sachs	Antony Harden Douglas Kerr gs-In-ed-flows@gs.com gs-futures@ny.email.gs.com	+44-207 0519848 +44-207 7741705		
J.P. Morgan	Antonio Lanzalaco FO_EMEA_Conti_Desk@jpmorgan.com	+33 140 154 938		
Jane Street	Europe Sales Team europesales@janestreet.com	+44 203 787 3333		
Société Générale	Aziz Tikouirt Arnaud Muller Remy Benchetrit Nicolas Lesceu list.par-mark-fic-trd-rat-etf@socgen.com	+33 142140365 +33 142149818		
Susquehanna	Ronan Henderson SIS-Sales-ETF@sig.com	+353 1 802 8018		



8 Contact Details

Contacts

Vass	ily	Pascal	is
-------------	-----	---------------	----

Sales United Kingdom

Deutsche Börse AG **UK Representative Office** 11 Westferry Circus, Canary Wharf London, E14 4HE **United Kingdom**

T: +44 (0)20 78 62-72 11 vassily.pascalis@eurex.com

Matthias Kronenberger

Sales Germany

Eurex Frankfurt AG Mergenthalerallee 61 65760 Eschborn Germany

T: +49 (0)69211-18719 matthias.kronenberger@eurex.com francesca.dellera@eurex.com

Christopher Anderson

Sales Scandinavia / Netherlands

Deutsche Börse AG **UK Representative Office** 11 Westferry Circus, Canary Wharf London, E14 4HE **United Kingdom**

T: +44 207 862-76 68 christopher.anderson@eurex.com

Francesca Dell'Era

Sales Switzerland / Italy / Malta

Eurex Global Derivatives AG Theilerstrasse 1a 6300 Zug Switzerland

T: + 41 (0)43 430 71 23

Catherine Zanatta

Sales United Kingdom – Buy-side

Deutsche Börse AG **UK Representative Office** 11 Westferry Circus, Canary Wharf London, E14 4HE **United Kingdom**

T: +44(0) 20 78 62-72 56 catherine.alexander@eurex.com

David Carretero

Sales France / Belgium / Spain

Eurex Frankfurt AG Mergenthalerallee 61 65760 Eschborn Germany

T: +49 69 2 11-1 82 33 david.carretero@eurex.com

Andreas Stadelmaier

Sales Germany

Eurex Frankfurt AG Mergenthalerallee 61 65760 Eschborn Germany

T: +49-69-211-1 38 59 andreas.stadelmaier@eurex.com

EUREX



Thank you!







9 Appendix



Bloomberg Fixed Income Indices are the benchmark of choice, backing over USD 5tn in assets under management worldwide





- 47 years as market pioneer and leader in fixed income benchmarks
- Serve a wide range of applications and benchmark users with deep client relationships

Industry-wide adoption



- Over US \$5 trillion AUM benchmarked
- #1 provider of benchmarks for Fixed Income ETFs

Industry Recognition



- **#1 Bond Market Indices** by Institutional Investor every year **since 1987**
- Top index provider by US Credit magazine since 2004

Distribution



- Benchmarks are **widely accessible** via market data redistributors and **portfolio analytics platforms**
- Strong data and wide scope of analytics and custom index solutions

Research & Product Expertise



- Full suite of benchmark and strategy indices (broad market beta to alpha strategies)
- Expertise with alternative weighted indices to provide diversification, value and income themes
- Innovation and thought leadership

Bloomberg, as an index provider, is uniquely positioned to self-source all fundamental pillars to support a sound index maintenance and production process



Data

- Access to 35 million instruments across all asset classes
- Rapid, real-time market data, key reference data and more with unmatched data normalization and intelligence



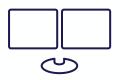
Price - BVAL

- Transparent, defensible pricing at current and historical snapshots using sophisticated, asset class-specific relative value models
- 2.5M securities priced daily using 9 snapshots and 3,600 different curves
- 1.3K clients globally



Analytics

- Portfolio & Risk Analytics, PORT<GO>
- Portfolio Report Editor, PREP<GO>
- Custom Index Builder, IQ<GO>



Distribution

- 325,000 Bloomberg Terminals globally
- BBA clients have automatic access to these indices on the terminal
- Integration with PORT and multiple 3rd party vendors



Research

- PORT and Index Research, INP <GO>
- Bloomberg Intelligence, BI<GO>

Disclaimer

© Eurex 2023

Deutsche Börse AG ("DBAG"), Clearstream Banking AG ("Clearstream"), Eurex Frankfurt AG ("Eurex"), Eurex Clearing AG ("Eurex Clearing"), Eurex Securities Transactions Services GmbH ("Eurex STS") and Eurex Repo GmbH ("Eurex Repo") are corporate entities and are registered under German law. Eurex Global Derivatives AG is a corporate entity and is registered under Swiss law. Clearstream Banking S.A. is a corporate entity and is registered under Luxembourg law. Eurex Frankfurt AG is the administrating and operating institution of Eurex Deutschland. Eurex Deutschland is in the following also referred to as the "Eurex Exchange".

All intellectual property, proprietary and other rights and interests in this publication and the subject matter hereof (other than certain trademarks and service marks listed below) are owned by DBAG or its affiliates and subsidiaries or used under authorization by their respective owners, including, without limitation, all patent, registered design, copyright, trademark and service mark rights. While reasonable care has been taken in the preparation of this publication to provide details that are accurate and not misleading at the time of publication DBAG, Clearstream, Eurex, Eurex Clearing, Eurex Repo as well as the Eurex Exchange and their respective subsidiaries, servants and agents (a) do not make any representations or warranties regarding the information contained herein, whether express or implied, including without limitation any implied warranty of merchantability or fitness for a particular purpose or any warranty with respect to the accuracy, correctness, quality, completeness or timeliness of such information, and (b) shall not be responsible or liable for any third party's use of any information contained herein under any circumstances, including, without limitation, in connection with actual trading or otherwise or for any errors or omissions contained in this publication.

This publication is published for information purposes only and shall not constitute investment advice respectively does not constitute an offer, solicitation or recommendation to acquire or dispose of any investment or to engage in any other transaction. This publication is not intended for solicitation purposes but only for use as general information. All descriptions, examples and calculations contained in this publication are for illustrative purposes only.

Eurex and Eurex Clearing offer services directly to members of the Eurex Exchange respectively to clearing members of Eurex Clearing. Those who desire to trade any products available on the Eurex market or who desire to offer and sell any such products to others or who desire to possess a clearing license of Eurex Clearing in order to participate in the clearing process provided by Eurex Clearing, should consider legal and regulatory requirements of those jurisdictions relevant to them, as well as the risks associated with such products, before doing so.

Only Eurex derivatives that are CFTC-approved may be traded via direct access in the United States or by United States persons. A complete, up-to-date list of Eurex derivatives that are CFTC-approved is available at: https://www.eurex.com/ex-en/rules-regs/eurex-derivatives-us/direct-market-access-from-the-us.

In addition, Eurex representatives and participants may familiarize U.S. Qualified Institutional Buyers (QIBs) and broker-dealers with certain eligible Eurex equity options and equity index options pursuant to the terms of the SEC's July 1, 2013 Class No-Action Relief. A complete, up-to-date list of Eurex options that are eligible under the SEC Class No-Action Relief is available at: https://www.eurex.com/ex-en/rules-regs/eurex-derivatives-us/eurex-options-in-the-us-for-eligible-customers. Lastly, U.S. QIBs and broker-dealers trading on behalf of QIBs may trade certain

single-security futures and narrow-based security index futures subject to terms and conditions of the SEC's Exchange Act Release No. 60,194 (June 30, 2009), 74 Fed. Reg. 32,200 (July 7, 2009) and the CFTC's Division of Clearing and Intermediary Oversight Advisory Concerning the Offer and Sale of Foreign Security Futures Products to Customers Located in the United States (June 8, 2010).

Trademarks and Service Marks

Buxl®, DAX®, DivDAX®, eb.rexx®, Eurex®, Eurex Repo®, Strategy Wizard, Euro GC®, FDAX®, FTSE 100, FWB®, GC Pooling®, GCPl®, MDAX®, ODAX®, SDAX®, TecDAX®, USD GC Pooling®, VDAX®, VDAX-NEW® and Xetra® are registered trademarks of DBAG or its affiliates and subsidiaries. All MSCI indexes are service marks and the exclusive property of MSCI Barra. ATX®, ATX® five, CECE® and RDX® are registered trademarks of Vienna Stock Exchange AG. IPD® UK Quarterly Indexes are registered trademarks of Investment Property Databank Ltd. IPD and have been licensed for the use by Eurex for derivatives. SLI®, SMI® and SMIM® are registered trademarks of SIX Swiss Exchange AG. The STOXX® indexes, the data included therein and the trademarks used in the index names are the intellectual property of STOXX Limited and/or its licensors. Eurex derivatives based on the STOXX® indexes are in no way sponsored, endorsed, sold or promoted by STOXX and its licensors and neither STOXX nor its licensors shall have any liability with respect thereto. PCS® and Property Claim Services® are registered trademarks of ISO Services, Inc. Korea Exchange, KRX, KOSPI and KOSPI 200 are registered trademarks of Korea Exchange Inc. The names of other companies and third-party products may be trademarks or service marks of their respective owners.

FTSE® is a trade mark of the London Stock Exchange Group companies and is used by FTSE International Limited ("FTSE") under license. All rights in the FTSE®100 Index (the "Index") vest in FTSE or its licensors. Neither FTSE nor any of their affiliates or licensors (a) assumes any liability, losses, damages, expenses or obligations in connection with any derivative product based on the Index; or (b) accepts any liability for any errors or omissions, fitness for a particular purpose or the results to be obtained from the use of the Index or related data. No party may rely on the Index or related data contained in this communication which Index and data is owned by FTSE or their affiliates. No use or distribution of the Index is permitted without FTSE's express written consent. FTSE does not promote, sponsor or endorse the content of this communication nor any financial or derivative product that it relates to.

PRIIPs: Eurex Deutschland qualifies as manufacturer of packaged retail and insurance-based investment products (PRIIPs) under Regulation (EU) No 1286/2014 on key information documents for packaged retail and insurance-based investment products (PRIIPs Regulation), and provides key information documents (KIDs) covering PRIIPs traded on Eurex Deutschland on its website under the following link: https://www.eurex.com/ex-en/rules-regs/priips-kids.

In addition, according to Art. 14(1) PRIIPs Regulation the person advising on, or selling, a PRIIP shall provide the KID to retail investors free of charge.

Disclaimer (cont.)

© BLOOMBERG 2023

BLOOMBERG® is a trademark and service mark of Bloomberg Finance L.P. MSCI is a trademark and service mark of MSCI Inc. (collectively with its affiliates, "MSCI"), used under license. Bloomberg Finance L.P. and its affiliates (collectively, "Bloomberg"), including Bloomberg Index Services Limited, the index administrator ("BISL"), or Bloomberg's licensors, including MSCI, own all proprietary rights in the Bloomberg MSCI Corporate SRI index and Global Green Bond index. None of Bloomberg, or MSCI is affiliated with Eurex Frankfurt AG, and none approves, endorses, reviews or recommends Fixed Income ESG futures. None of Bloomberg, or MSCI guarantees the timeliness, accurateness or completeness of any data or information relating to Bloomberg MSCI Corporate SRI index and Global Green Bond index, and none shall be liable in any way to Eurex Frankfurt AG, investors in Fixed Income ESG futures or other third parties in respect of the use or accuracy of the Bloomberg MSCI Corporate SRI index and Global Green Bond index or any data included therein.