

iBoxx USD Liquid 5-9 Top 50 Index Methodology

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iBoxx USD Liquid 5-9 Top 50 Index

The iBoxx USD Liquid 5-9 Top 50 Index is a basket of 50 bonds, designed to reflect the performance of liquid USD denominated investment grade corporate debt.

The index rules aim to offer a broad coverage of the investment grade liquid bond universe, whilst upholding minimum standards of investability and liquidity. The index forms an integral part of the existing iBoxx index families, which provide the marketplace with accurate and objective benchmarks by which to assess the performance of bond markets and investments.

All iBoxx indices are priced based on multiple data inputs. The iBoxx USD Index family uses multi-source prices as described in the document “iBoxx Pricing Rules” publicly available on www.spglobal.com/spdji.

This document covers the index selection rules and calculation methodology.

Bond Selection Rules

The following selection criteria are applied to select the constituents for the iBoxx USD Liquid 5-9 Top 50 Index:

- Bond type
- Credit rating
- Time to maturity
- Amount outstanding
- Issuer Country
- Issuer Cap

Bond Type

Only fixed-rate bonds whose cash flow can be determined in advance are eligible for the index. The index is comprised solely of corporate bonds.

Bonds with the following characteristics are included:

- Taxable municipals
- 144A-version only (i.e. there is no corresponding RegS security)
- Fixed coupon bonds
- Callable and Puttable bonds
- Step-ups and event-driven bonds such as rating-driven or registration-driven bonds
- Amortizing bonds and sinking funds with fixed sinking schedules
- Fixed-to-floaters
 - Hybrid bank/insurance capital bonds
 - Senior bonds issued by banks with a call option up to 2 years prior to maturity
 - Undated fixed – to floaters
- Perpetual Bonds of all types.
- Financial subordinated debt with a contingent conversion feature at the point of non-viability, inline with the capital adequacy requirements of Basel III
- Secured bonds
 - Secured bonds issued by insurance companies
 - First mortgaged bonds/ first priority security interest
 - Covered bond
 - Secured bonds issued by an SPV with known cash-flows

The following bond types are specifically excluded:

- Retail bonds

- Private placements
- Floating Rate Notes
- Zero coupon bonds and zero-coupon step-up bonds
- Dated fixed to floater bonds issued by non-financial issuers
- Dated fixed to floater senior bonds issued by non-banking financial issuers
- Convertibles
- Inflation and other index-linked bonds
- Bonds cum or ex-warrant
- Bonds whose complete coupons are paid at maturity, as they are similar to zero-coupon bonds with only one cash flow
- New bonds entering the index that have already been called prior to rebalancing
- Optional and mandatory convertible bonds
- Subordinated bank or insurance debt with mandatory contingent conversion features that are based on an observable trigger
- Extended bonds as defined under section 'Maturity extension' in this document

For retail bonds and private placements, publicly available information is not always conclusive and the classification of a bond as a retail bond or a private placement will be made at S&P DJI's discretion based on the information available at the time of determination. Any bond classified as retail or private placement is added to the list of excluded private placements and retail bonds. The list is published on www.spglobal.com/spdji for future reference and to ensure decision's consistency.

In instances where a new bond type is not specifically excluded or included according to the published index rules, S&P DJI will analyse the features of such securities in line with the principles set out in 2.1 of this guide. S&P DJI may consult the specific Index Committees. Any decision as to the eligibility or ineligibility of a new bond type will be published and the index rules will be updated accordingly.

Credit Rating

All bonds in the indices must have an iBoxx Rating of investment grade. Ratings from the following three credit rating agencies are considered for the calculation of the iBoxx Rating:

- Fitch Ratings
- Moody's Investor Service
- S&P Global Ratings

Investment grade is defined as BBB- or higher from Fitch Ratings and S&P Global Ratings and Baa3 or higher from Moody's Investor Service. Bonds with an RD/SD rating are excluded from the indices. If more than one of the above agencies rates a bond, then the iBoxx rating is the average of the provided ratings. The index consolidates ratings to the nearest rating grade and does not use rating notches.

For more information on average ratings, please refer to the iBoxx Rating Methodology, available at www.spglobal.com/spdji.

Time to Maturity

All bonds must have a remaining time to maturity of at least 5 years and less than 9 years at the rebalancing date. Newly issued bonds must meet the minimum initial time to maturity rule. The minimum initial time to maturity as measured from the first settlement date to the maturity date of the bond, must be 18 months or more. The expected remaining life expressed in years and calculated as follows:

- For plain vanilla bonds, the expected remaining life of the bond is its time to maturity, calculated as the number of days between the last calendar day of the current month and its maturity.
- For dated and undated callable financial hybrid capital bonds, the workout date is assumed to be the first call date.
- For non-financial hybrid capital bonds with an interest rate reset, the workout date is assumed to be the first reset date.
- For soft bullets, the expected remaining life of the bond is its time to the expected maturity and not to its final maturity date.
- For sinking funds and amortizing bonds, the average life is used instead of the final maturity to calculate the remaining time to maturity.

Amount Outstanding

All bonds must have a minimum amount outstanding of USD 1 billion in order to be eligible for the iBoxx USD Liquid 5-9 Top 50 Index.

Issuer Cap

The index is market value-weighted with an issuer cap of 5%

Issuer Country

The issuer or, in the case of a finance subsidiary, the issuer's guarantor, must be domiciled in:

- United States

Index Size, Issuer Ordering and Bonds Selection

Since the number of bonds in the index is limited to 50, in addition to the selection criteria mentioned, ranking criteria are necessary to select the bonds.

The following criteria are applied:

- Highest notional amount
- More recent first settlement date
- ISIN in descending alphabetical order

All iBoxx indices calculate using the assumption of T+0 settlement days.

The number of bonds from an issuer as identified by its ticker that may enter an index is limited to 1 bond

Weight Capping

The index is market value-weighted with an issuer cap of 5%.

Bond Classification

All bonds are classified based on the principal activities of the issuer and the main sources of the cash flows used to pay coupons and redemptions. In addition, a bond's specific collateral type or legal provisions are evaluated. Hence, it is possible that bonds issued from different subsidiaries of the same issuer carry different classifications.

The issuer classification is reviewed regularly based on updated information received by S&P DJI, and status changes are included in the index at the next rebalancing if necessary.

Where the sector classification of a specific entity is not clear due to the diversified business of the entity, a decision is made at S&P DJI's discretion. S&P DJI assigns the classification according to its evaluation of the business risk presented in the security prospectus and annual reports, if available. S&P DJI also compares the classification to peers in the potential sectors. Membership lists including classification are published on the FTP server and in the *Indices* section of the webpage for registered users.

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Issuer

The bond must be corporate credit, i.e. debt instruments backed by corporate issuers that are not secured by specific assets. Debt issued by governments, sovereigns, quasi-sovereigns, and government backed or guaranteed entities is excluded.

Corporates

Bonds issued by public or private corporations. Bonds secured by a 'floating charge' over some or all assets of the issuer are considered corporate bonds. Corporate bonds are further classified into Financials and Non-Financials bonds and then into their multiple-level economic sectors, according to the issuer's business scope. The category Guaranteed & Wrapped is added under Financials for corporate bonds whose timely coupon and/or principal payments are guaranteed by a non-affiliated insurer or through a letter of credit from a non-affiliated bank. Each bond in the index is assigned to one of the following sectors.

iBoxx Corporates Sector Overview

	Economic Sector	Market Sector	Market Sub-Sector	
Financials	Core Financials	Banks	Banks	
		Insurance	Life Insurance Nonlife Insurance	
	Financial Services	Financial Services	General Financial	
			Equity Investment Instruments	
			Nonequity Investment Instruments	
		Guaranteed & Wrapped	*	
	Real Estate	Real Estate	Real Estate Investment & Services	
			Real Estate Investment Trusts	
	Non-Financials	Energy	Oil & Gas	Oil & Gas Producers
				Oil Equipment / Services & Distribution
		Renewable Energy	Renewable Energy	
Basic Materials		Chemicals	Chemicals	
		Basic Resources	Industrial Metals	
			Mining	
		Forestry & Paper		
Industrials		Construction & Materials	Construction & Materials	
			Aerospace & Defense	
			Electronic & Electrical Equipment	
			General Industrials	
			Industrial Engineering	
			Industrial Transportation	
			Support Services	
Consumer Goods		Automobiles & Parts	Automobiles & Parts	
		Food & Beverage	Beverages	
			Food Producers	
		Personal & Household Goods	Household Goods	
			Personal Goods	
			Tobacco	
		Leisure Goods		
Health Care		Health Care	Pharmaceuticals & Biotechnology	
			Health Care Equipment & Services	
Consumer Services		Retail	Food & Drug Retailers	
			General Retailers	
		Media	Media	
		Travel & Leisure	Travel & Leisure	
		Education	Academic & Educational Services	
Telecommunications		Telecommunications	Integrated Telecommunications	
			Wireless Telecommunications	
Utilities		Utilities	Electricity	
			Gas / Water & Multiutilities	
Technology		Technology	Software & IT Services	
			Technology Hardware & Equipment	

Additional Classification

Corporate debt is further classified into senior and subordinated debt. Bank senior debt structure additionally differentiates between Bail-in and Preferred bonds. The Bail-in classification captures all

senior notes which are subject to write-down or conversion into a subordinated instrument on the occurrence of a resolution event, as well as senior bank debt issued by bank holding companies.

Hybrid capital issued by banking and insurance institutions is further detailed into the respective tiers of subordination.

The market information on the tier of subordination for insurance capital is often less standardized and clear than the equivalent issues by banks. In these cases, the classification is based on the maturity, coupon payment and deferral provisions of the bond from the offering circulars of the bonds. The table below displays the seniority classification of debt issued by both financial and non-financial sectors.

Seniority Levels Overview

Market Sector	Seniority Level 1	Seniority Level 2	Seniority Level 3	
Bank	SEN	Preferred	*	
		Bail-in	*	
	SUB	T2 (post-Jan '13 issuances)		T2 callable
				T2 non-callable
		T2 (pre-Jan '13 issuances)		LT2 callable
				LT2 non-callable
				UT2
T1		T1 step		
		T1 non-step		
Insurance	SEN	*	*	
	SUB	T3	*	
		T2 dated		T2 dated callable
				T2 dated non-callable
		T2 perpetual	*	
T1	*			
Financial Services	SEN	*	*	
	SUB	T3	*	
		T2		T2 callable
				T2 non-callable
		T2 dated		T2 dated callable
				T2 dated non-callable
		T2 perpetual	*	
		T1		*
				T1 step
				T1 non-step
Other		Hybrid**		
		Non-hybrid		
Other sectors	SEN	*	*	
	SUB	Other	Hybrid** Non-hybrid	

** Bonds must satisfy the following criteria to be considered hybrids:

- Subordinated
- Deferrable coupons
- First non-call period \geq 5 years
- Either perpetual or 'long-dated', where 'long-dated' is defined as $>$ 25 years of the time to maturity at issuance

Index Calculation

Static Data

Information used in the index calculation is sourced from offering circulars and checked against standard data providers.

Bond Prices

For more details, please refer to the *iBoxx Pricing Methodology* document, available in the *Methodology* section of the webpage at www.spglobal.com/spdji.

Rebalancing Process

The index rebalances quarterly in February, May, August, and November. The index rebalances on the last calendar day of the month after the last index calculation, including when the last day of the month falls on a non-business day.

Changes to amounts outstanding are only taken into account if they are publicly known three business days before the end of the month. Changes in ratings are only taken into account if they are publicly known two business days before the end of the month. New bonds issued are taken into account if they are publicly known to settle until the last calendar day of the month, inclusive, and if their rating has become known at least three trading days before the end of the month.

S&P DJI publishes a preliminary membership list on the sixth calendar day of the month (which is moved to the next business day in case of a holiday or weekend).

Four business days before the end of each month, S&P DJI publishes another preliminary membership list on the FTP server.

Three business days before the end of each month, S&P DJI publishes a membership list with final amounts outstanding for each bond, which contains the maximum number of constituents for the next month.

Two business days before the end of each month, the constituents' rating information is updated and the list is adjusted for all rating changes which are known to have taken place two trading days before the end of the month. Bonds which are known to have been upgraded to investment grade two trading days before the end of the month are not included in the membership, but bonds which are known to have been downgraded to sub-investment grade two trading days before the end of the month are excluded from the membership.

On the last business day of each month, S&P DJI publishes the final membership with closing prices for the bonds and various bonds' analytics based on the bonds' index prices.

Index Data

The calculation of the index is based on bid prices. New securities are included in the index at their respective ask prices. In the event that no price can be established for a particular security, the index continues to be calculated based on the last available price. This might be the case in periods of market stress, or disruption as well as in illiquid or fragmented markets. If the required inputs become impossible to obtain, S&P DJI may consult market participants prior to the next rebalancing date. Decisions are made publicly available on a timely basis and S&P DJI may refer back to previous cases.

The rebalancing takes place after close of market on the last trading day of a rebalancing month.

Index Calculus

For specific index formulas please refer to the *iBoxx Bond Index Calculus Methodology* available at www.spglobal.com/spdji.

Treatment of the Special Intra-Month Events

Data for the application of corporate actions in the index may not be fully or timely available at all times, e.g. the final call prices for make-whole calls or the actual pay-in-kind percentage for PIK-payment options. In such cases, S&P DJI will estimate the approximate value based on the available data at the time of calculation.

Funged Bonds

Bonds may be issued in several tranches. The different tranches are initially legally separate and therefore trade independently for a certain period. On and after the funge date, the tranches will be combined into one bond, i.e. the parent tranche will contain the original security, as well as the additional notional(s) from the new tranche(s). After the funge date, the prices for both the securities are the same, because they constitute one uniform bond. This is reflected in the indices as follows:

Parent and New Tranche are both Index Constituents

- After the funge date, the price from the parent tranche is used for the funged tranche; no price for the funged bond
- Funged tranche leaves the index at the next rebalancing and parent amount outstanding increases accordingly

Parent is an Index Constituent, but the New Tranche is not

- No special intra-month treatment necessary
- Parent amount outstanding increases at the next rebalancing

Parent is not an Index Constituent but the New Tranche is

- No special intra-month treatment necessary
- Funged tranche leaves the index; parent tranche enters the index at the next rebalancing

Full Redemptions: Exercised Calls, Puts and Buybacks

If a bond is fully redeemed intra-month, the bond effectively ceases to exist. In all calculations, the redeemed bond is treated as cash based on the last price, the call price or repurchase price, as applicable. The redemption factor, redemption and the redemption price are used to treat these events in the index and analytics calculation. In addition, the clean price of the bond is set to the redemption price, and the interest accrued until the redemption date is treated as an irregular coupon payment.

Bonds Trading Flat of Accrued

If a bond is identified as trading flat of accrued, the accrued interest of the bond is set to 0 in the total return index calculation and is excluded from the calculation of all bond and index analytical values.

Bonds will be considered trading flat of accrued in any of the following situations:

- a bond has been assigned a default rating and/or
- issuer has announced a failure to pay a coupon and/or
- issuer has announced an intention not to make a payment on an upcoming coupon (grace

period).

Multi-Coupon Bonds

Some bonds have pre-defined coupon changes that lead to a change in the annual coupon over the life of the bond. In all instances, the coupon change must be a fixed amount on top of a fixed coupon, i.e. floating coupon bonds are not eligible for the indices. The two main categories of bonds are step-up bonds and event-driven bonds.

- **Step-up bonds:** These are bonds with a pre-defined coupon schedule that cannot change during the life of the bond. The coupon schedule is used in all bond calculations.
- **Event-driven bonds:** These are bonds whose coupon may change upon occurrence (or nonoccurrence) of pre-specified events, such as rating changes, e.g. rating-driven bonds, failure to register (register-driven bonds), or failure to complete a merger (merger-driven bonds). In the calculation of the indices and the analytics, the coupon schedule as of the calculation date is used. That is to say, any events occurring after the calculation date are ignored in the determination of the applicable coupon schedule. *Example of an event-driven bond:* A bond's rating changes on 31 December 2003 from A- to BBB+ and the coupon steps up from 6% to 6.25% from 1 March 2004 onward. The coupon dates are 1 October and 1 April each year. The correct coupon schedule for the bond and index calculations is date dependent. The index calculation on 20 December 2003 uses the 6% coupon for the whole life of the bond, while the calculation on 31 January 2004 uses a 6% coupon for the current coupon period to 29 February 2004, and a 6.25% coupon for all later interest payments. The index calculation on 20 March uses a 6% coupon until 29 February, a 6.25% coupon for the remainder of the current coupon period and a 6.25% coupon for all future coupon payments. The index calculation after 1 April uses a 6.25% coupon.

Ex-Dividend Conventions

Some markets have ex-dividend conventions. Ex-dividend means that the next coupon is detached from the bond several days in advance of the coupon payment date. The date on which the next coupon is detached is the ex-dividend date and the period between the ex-dividend date and the coupon payment date is the ex-dividend period. If a bond is in the ex-dividend period, the next coupon payment will not be paid to a buyer of this bond, but will be paid to the original bond holder.

The indices and analytics calculations take ex-dividend conventions into account. During the ex-dividend period, the accrued interest of the bond is negative, while the next coupon payment is held separate in the variable coupon adjustment. If the bond enters the index during the ex-dividend period, then the next coupon payment and the coupon adjustment will not accrue to the index. However, if the bond was already in the index, the next coupon payment needs to be included in the total return calculations. This is controlled via the ex-dividend indicator which is 0 if the bond enters the index during the current exdividend period and 1 if not. The same treatment is also applied to all analytics calculation, i.e. the first cash flow is excluded from the calculations if the bond enters during the current ex-dividend period.

Index history

The Index history starts on 30 November 2018. The index has a base value of 100 on that date.

Settlement conventions

All iBoxx indices calculate using the assumption of T+0 settlement days.

Calendar

S&P DJI publishes an index calculation calendar available on www.spglobal.com/spdji under *iBoxx Indices Calendars*. This calendar provides an overview of the index calculation holidays of the iBoxx bond index families each year.

Data Publication and Access

The table below summarizes the publication of the index at www.spglobal.com/spdji for registered users and on the FTP server.

In addition to the indices detailed in this methodology, other indices covered by this document may be available. For a list of available indices, please refer [here](#).

Frequency, File type and Access

Frequency	File Type	Access
Daily	Underlying file – Bond level	FTP Server
	Indices file – Index level	FTP Server / website / BBG for index levels only
Daily from the sixth calendar day of the month (or the next index publication day if the sixth calendar day falls on a non-business day)	Forwards	FTP Server
Monthly	End of Month Components	FTP Server / website

Index Review

In addition to the daily governance of indices and maintenance of index methodologies, at least once within any 12-month period, the Index Committee reviews the methodology to ensure the indices continue to achieve the stated objectives, and that the data and methodology remain effective. In certain instances, S&P Dow Jones Indices may publish a consultation inviting comments from external parties.

Index Governance

Index Committee

An S&P Dow Jones Indices Index Committee maintains the indices. All committee members are full-time professionals at S&P Dow Jones Indices. Meetings are held regularly. The Index Committee oversees the management of the indices, including determinations of intra-rebalancing changes, maintenance and inclusion policies, and other matters affecting the maintenance and calculation of the indices.

In fulfilling its responsibilities, the Index Committee has full and complete discretion to (i) amend, apply, or exempt the application of index rules and policies as circumstances may require and (ii) add, remove, or by-pass any bond in determining the composition of an index.

The Index Committee may rely on any information or documentation submitted to it or gathered by it that the Index Committee believes to be accurate. The Index Committee reserves the right to reinterpret publicly available information and to make changes to the indices based on a new interpretation of that information at its sole discretion. All Index Committee discussions are confidential.

The Index Committee is separate from and independent of other analytical groups at S&P Global. In particular, the Index Committee has no access to or influence on decisions by S&P Global Ratings analysts.

S&P Dow Jones Indices' Index Committees reserve the right to make exceptions when applying the methodology if the need arises. In any scenario where the treatment differs from the general rules stated in this document or supplemental documents, clients will receive sufficient notice, whenever possible.

In addition to the daily governance of indices and maintenance of index methodologies, at least once within any 12-month period, the Index Committee reviews the methodology to ensure the indices continue to achieve the stated objectives, and that the data and methodology remain effective. In certain instances, S&P Dow Jones Indices may publish a consultation inviting comments from external parties.

For more information on index governance policies, please refer [here](#).

Methodology Changes

	Annual Index Review 2025
31-Mar-2026	<ul style="list-style-type: none">• Introduction of subordinated debt classification tiers for Financial Services
31-Jan-2024	<ul style="list-style-type: none">• Launch of the iBoxx USD Liquid 5-9 Top 50 Index

Further Information

Client Support

For client support please contact index_services@spglobal.com.

Formal Complaints

Formal complaints should be emailed to spdji_compliance@spglobal.com.

Please note: spdji_compliance@spglobal.com should only be used to log formal complaints.

General Index Inquiries

For general index inquiries, please contact index_services@spglobal.com.

ESG Disclosures

EXPLANATION OF HOW ENVIRONMENTAL, SOCIAL & GOVERNANCE (ESG) FACTORS ARE REFLECTED IN THE KEY ELEMENTS OF THE BENCHMARK METHODOLOGY ¹		
1	Name of the benchmark administrator.	S&P Dow Jones Indices Limited
2	Underlying asset class of the ESG benchmark.²	N/A
3	Name of the S&P Dow Jones Indices benchmark or family of benchmarks.	iBoxx Benchmark Statement
4	Do any of the indices maintained by this methodology take into account ESG factors?	No
Appendix latest update:		May 2023
Appendix first publication:		May 2023

1. The information contained in this Appendix is intended to meet the requirements of the European Union Commission Delegated Regulation (EU) 2020/1817 supplementing Regulation (EU) 2016/1011 of the European Parliament and of the Council as regards the minimum content of the explanation of how environmental, social and governance factors are reflected in the benchmark methodology and the retained EU law in the UK (The Benchmarks (amendment and Transitional Provision) (EU Exit) Regulations 2019).

2. The 'underlying assets' are defined in European Union Commission Delegated Regulation (EU) 2020/1816 supplementing Regulation (EU) 2016/1011 of the European Parliament and of the Council as regards the explanation in the benchmark statement of how environmental, social and governance factors are reflected in each benchmark provided and published.

Disclaimer

Performance Disclosure/Back-Tested Data

Where applicable, S&P Dow Jones Indices and its index-related affiliates (“S&P DJI”) defines various dates to assist our clients by providing transparency. The First Value Date is the first day for which there is a calculated value (either live or back-tested) for a given index. The Base Date is the date at which the index is set to a fixed value for calculation purposes. The Launch Date designates the date when the values of an index are first considered live: index values provided for any date or time period prior to the index’s Launch Date are considered back-tested. S&P DJI defines the Launch Date as the date by which the values of an index are known to have been released to the public, for example via the company’s public website or its data feed to external parties. For Dow Jones-branded indices introduced prior to May 31, 2013, the Launch Date (which prior to May 31, 2013, was termed “Date of introduction”) is set at a date upon which no further changes were permitted to be made to the index methodology, but that may have been prior to the Index’s public release date.

Please refer to the methodology for the Index for more details about the index, including the manner in which it is rebalanced, the timing of such rebalancing, criteria for additions and deletions, as well as all index calculations.

Information presented prior to an index’s launch date is hypothetical back-tested performance, not actual performance, and is based on the index methodology in effect on the launch date. However, when creating back-tested history for periods of market anomalies or other periods that do not reflect the general current market environment, index methodology rules may be relaxed to capture a large enough universe of securities to simulate the target market the index is designed to measure or strategy the index is designed to capture. For example, market capitalization and liquidity thresholds may be reduced. In addition, forks have not been factored into the back-test data with respect to the S&P Cryptocurrency Indices. For the S&P Cryptocurrency Top 5 & 10 Equal Weight Indices, the custody element of the methodology was not considered; the back-test history is based on the index constituents that meet the custody element as of the Launch Date. Also, the treatment of corporate actions in back-tested performance may differ from treatment for live indices due to limitations in replicating index management decisions. Back-tested performance reflects application of an index methodology and selection of index constituents with the benefit of hindsight and knowledge of factors that may have positively affected its performance, cannot account for all financial risk that may affect results and may be considered to reflect survivor/look ahead bias. Actual returns may differ significantly from, and be lower than, back-tested returns. Past performance is not an indication or guarantee of future results.

Typically, when S&P DJI creates back-tested index data, S&P DJI uses actual historical constituent-level data (e.g., historical price, market capitalization, and corporate action data) in its calculations. As ESG investing is still in early stages of development, certain datapoints used to calculate certain ESG indices may not be available for the entire desired period of back-tested history. The same data availability issue could be true for other indices as well. In cases when actual data is not available for all relevant historical periods, S&P DJI may employ a process of using “Backward Data Assumption” (or pulling back) of ESG data for the calculation of back-tested historical performance. “Backward Data Assumption” is a process that applies the earliest actual live data point available for an index constituent company to all prior historical instances in the index performance. For example, Backward Data Assumption inherently assumes that companies currently not involved in a specific business activity (also known as “product involvement”) were never involved historically and similarly also assumes that companies currently involved in a specific business activity were involved historically too. The Backward Data Assumption allows the hypothetical back-test to be extended over more historical years than would be feasible using only actual data. For more information on “Backward Data Assumption” please refer to the FAQ. The methodology and factsheets of any index that employs backward assumption in the back-tested history will explicitly state so. The methodology will include an Appendix with a table setting forth the specific data points and relevant time period for which backward projected data was used. Index returns shown do not

represent the results of actual trading of investable assets/securities. S&P DJI maintains the index and calculates the index levels and performance shown or discussed but does not manage any assets.

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