

iBoxx SD-KPIndex® Family

February 2022



ESG integrated seamlessly into IHS Markit index solutions



Benchmark & Liquid Indices

Track performance, analyze asset allocation, performance attribution and manage risk against one of our index benchmark (fixed income, equity, CDS, structured products)



Custom Indices

Designed and built to meet your unique investment requirement, leveraging our comprehensive data universe and partnerships in place around ESG, Smart Beta and Blend indices



Index Management

Integrated data solution that provides daily composition data, corporate action and dividends and a forecast of index changes taking place in the near future



Tradable Indices

Standardized TRS providing exposure on an unfunded basis to key segments of the global fixed income markets



Custom Basket Calculation

Provides independent outsourced calculation services for an index of client-selected securities and the tracking and management of corporate events



Custom Basket Integrated Sols.

A modular custom basket design optimisation environnent to facilitate portfolio creation and trading between the buy-side and sell-side clients



Investment Solutions

ETF issuers and structured product desks can issue ETF or derivatives tracking one of our existing benchmark or a newly created custom index



Index Admin & Calculation

Services supporting benchmark regulatory compliance for the design, calculation and maintenance of indices as well as use of benchmark data



VIIV and iNav Calculation

Verified Indicative Intraday Valuer for non-transparent ETFs and iNav calculation for equity ETFs



Consistent growth in ESG

\$1.95T

AUM

Allocated to ESG funds and ETFs globally

\$400+B

AUM

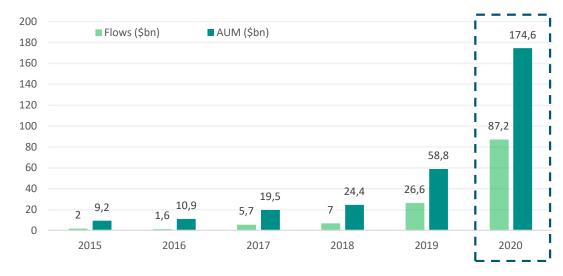
Allocated to FI ESG funds and ETFs globally

450+

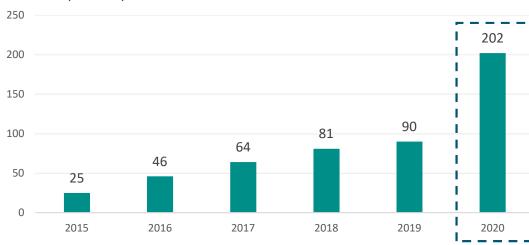
ESG funds dedicated to FI ESG globally

- Increased demand for ESG investments is both changing the landscape of debt markets and driving product innovation
- Strong demand from investor for green, social and sustainable bonds and impact finance solutions
- Increased commitment from financial institutions

ESG ETFs annual inflows and assets, 2014-2020



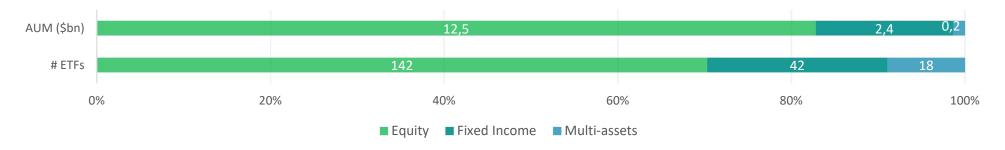
ESG ETFs by launch year



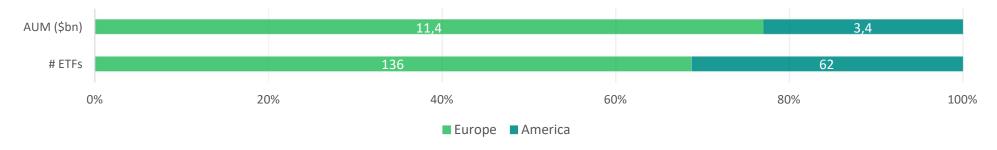


Current ESG ETF landscape

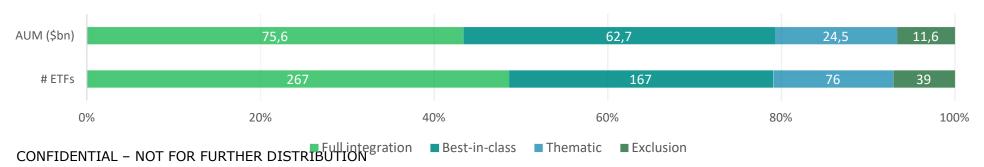
Asset class breakdown of 2020 ESG ETFs launches



Regional distribution of 2020 ESG ETFs launches



Application of four major US strategies





SD-M KPI Methodology



- SD-M® evaluates corporate bond issuers and assigns an accumulated "Sustainable Development Key Performance Indicator" (SD-KPI) score based on industry-specific SD-KPI standards
- SD-KPIntegration® Scores range from 0 100. Bonds that are not covered by SD-M® GmbH will be given an SD-KPIntegration® Score of 50.
 - > Applies an under-/overweight based on SD-KPI quintiles (-50%, -25%, 0%, +25, +50%).

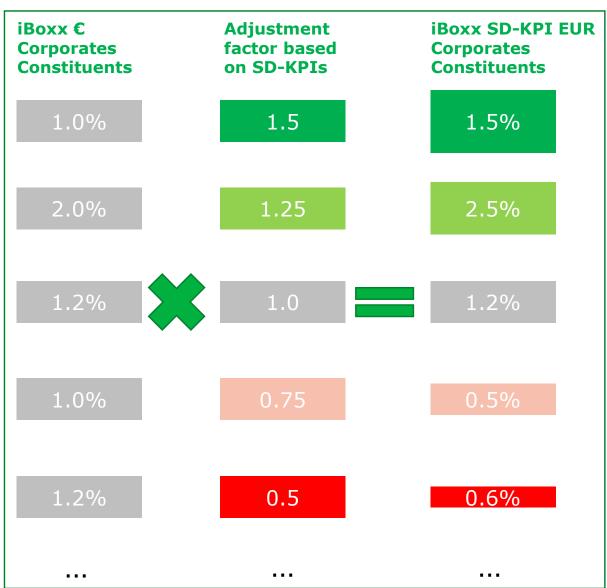
	Sovereigns	Non-Sovereigns							
Sovereigns • Eurozone Sovereigns		reigns Sub-Sovereigns		Corporates					
		Other Sovereigns	 Covered 	 Financials 					
>	Eurozone country	 Agencies 	> Country indices	> Market sector indices					
	indices	 Public Banks 	 Securitized 	 Market sub-sector 					
		 Regions 	 Other Collateralized 	indices					
		 Supranationals 		 Non-Financials 					
		 Other Sub-Sovereigns 		> Market sector indices					
				 Market sub-sector indices 					



iBoxx SD-KPI EUR Corporates Index Methodology

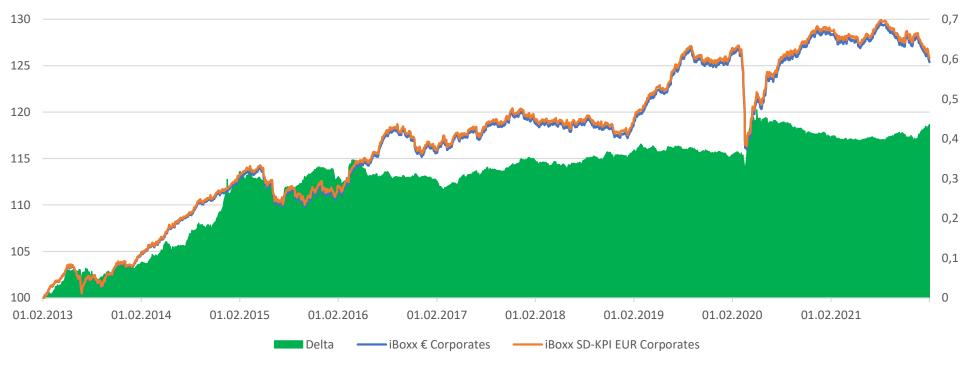
iBoxx SD-KPI EUR Corporates Index

Issuer Type	Debt issued by public or private corporations
Amount Outstanding	Minimum EUR 500 milllion
Rating	Bonds must have an iBoxx rating of Investment Grade
Currency	Euro (EUR)
Calculation	Daily
Rebalancing	Monthly
History Start Date	31 January 2013
Weighting	Adjusted market value weighting. The original bond weight is multiplied by an adjustment factor based on a bond's "Sustainable Development Key Performance Indicator" (SD-KPI) scoring range. After all adjustments are made, bond weights are normalized.





iBoxx SD-KPI EUR Corporates



Index Returns	Annualized Return (%)			Annualized Volatility				
	1 Y	3Y	5Y	Since inception	1Y	3Y	5Y	Since inception
iBoxx SD-KPI EUR Corporates	-2.13%	1.72%	1.59%	2.51%	1.75%	2.78%	2.42%	2.30%
iBoxx € Corporates	-2.16%	1.70%	1.57%	2.47%	1.76%	2.77%	2.42%	2.29%
Index volatility and risk	Sharpe Ratio				Max Drawdov	vn (%)		
iBoxx SD-KPI EUR Corporates	-1.219	0.618	0.654	1.092	-3.25%	-8.51%	-8.51%	-8.51%
iBoxx € Corporates	-1.226	0.614	0.647	1.079	-3.29%	-8.53%	-8.53%	-8.53%
Index volatility and risk	Tracking Error							
iBoxx SD-KPI EUR Corporates	0.02%	0.03%	0.03%	0.03%				



iBoxx SD-KPI EUR Corporates – Constituents

Sector	iBoxx SD- KPI EUR Corporates	iBoxx € Corporates
Core Financials	34.4%	32.1%
Consumer Goods	12.7%	13.6%
Industrials	9.1%	9.4%
Utilities	9.0%	10.0%
Health Care	6.3%	6.1%
Telecommunications	6.2%	6.2%
Real Estate	6.1%	6.2%
Oil & Gas	5.1%	5.0%
Consumer Services	3.6%	3.7%
Technology	2.6%	2.7%
Basic Materials	2.5%	2.5%
Financial Services	2.3%	2.4%

Country of Risk	iBoxx SD- KPI EUR	iBoxx €
Country of Misk	Corporates	
FR	22.9%	21.9%
US	17.7%	18.7%
DE	14.5%	14.7%
GB	8.0%	8.2%
NL	7.3%	6.6%
ES	6.0%	5.6%
IT	4.3%	4.1%
СН	3.4%	3.3%
SE	2.3%	2.2%
AU	1.9%	2.0%
Others	11.7%	12.6%

	Boxx SD- (PI EUR	iBoxx €		iBoxx SD- KPI EUR	iBoxx €
(Corporates	Corporates	, in the second	Corporates	Corporates
	0%	0%	1-5 Years	53.4%	52.4%
	9%	9%	5-10 Years	36.5%	37.0%
	40%	39%	10-15 Years	6.9%	7.2%
	51%	52%	15+ Years	3.2%	3.3%

	iBoxx SD-	
Issuer	KPI EUR	iBoxx €
	Corporates	Corporates
BNP Paribas SA	1.56%	1.48%
Banque Federative du Credit Mutuel SA	1.26%	1.21%
Societe Generale SA	1.15%	0.95%
Orange SA	1.03%	0.97%
The Goldman Sachs Group Inc	0.95%	0.93%
BPCE SA	0.94%	0.89%
CaixaBank SA	0.90%	0.75%
Unibail-Rodamco-Westfield SE	0.86%	0.70%
Volkswagen International Finance NV	0.85%	0.98%
Electricite de France SA	0.85%	0.67%
Deutsche Bahn Finance GmbH	0.84%	0.69%
ING Groep NV	0.84%	0.83%
JPMorgan Chase & Co	0.78%	0.73%
Telefonica Emisiones SAU	0.78%	0.60%
Eni SpA	0.76%	0.72%
BMW Finance NV	0.75%	0.70%

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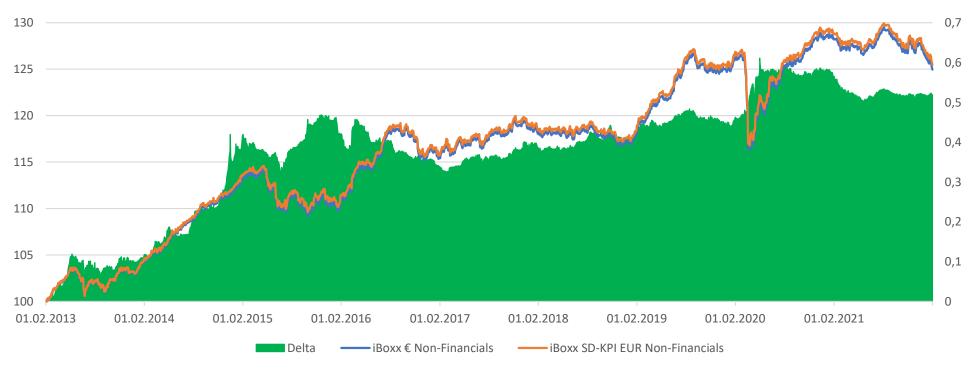
Rating

AAA AA

BBB



iBoxx SD-KPI EUR Non-Financials



Index Returns	Annualized Re	eturn (%)	rn (%) Annualized Volati				ility		
	1Y	3Y	5Y	Since inception	1Y	3Y	5Y	Since inception	
iBoxx SD-KPI EUR Non-Financials	-2.43%	1.75%	1.56%	2.48%	1.94%	2.86%	2.53%	2.45%	
iBoxx € Non-Financials	-2.41%	1.74%	1.53%	2.43%	1.93%	2.84%	2.52%	2.44%	
Index volatility and risk	Sharpe Ratio				Max Drawdov	vn (%)			
iBoxx SD-KPI EUR Non-Financials	-1.257	0.615	0.615	1.012	-3.52%	-8.14%	-8.14%	-8.14%	
iBoxx € Non-Financials	-1.251	0.611	0.608	0.997	-3.52%	-8.20%	-8.20%	-8.20%	
Index volatility and risk	Tracking Erro	r							
iBoxx SD-KPI EUR Non-Financials	0.02%	0.03%	0.03%	0.05%					



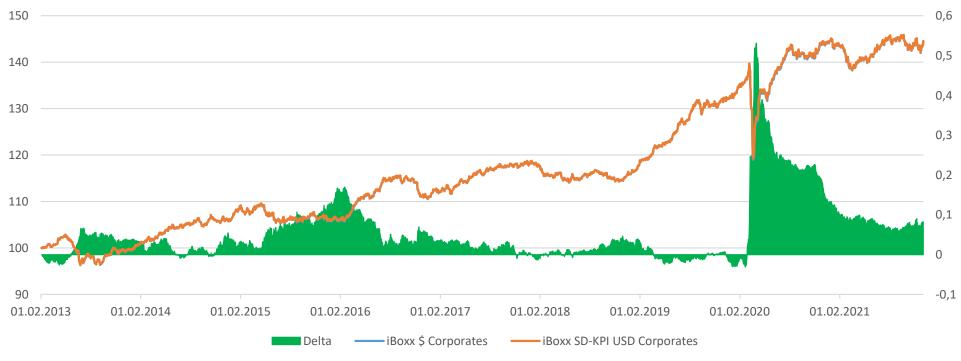
iBoxx SD-KPI GBP Corporates



-	■ Delta ——i	Boxx £ Corpora	ites ——il	Boxx SD-KPI GBP	Corporates			
Index Returns	Annualized Re	eturn (%)	(%) Annualized Volatility					
	1Y	3Y	5Y	Since inception	1Y	3Y	5Y	Since inception
iBoxx SD-KPI GBP Corporates	-4.92%	3.43%	3.19%	4.57%	4.47%	5.63%	4.98%	5.00%
iBoxx £ Corporates	-4.94%	3.38%	3.15%	4.57%	4.48%	5.62%	4.98%	5.02%
Index volatility and risk	Sharpe Ratio				Max Drawdov	wn (%)		
iBoxx SD-KPI GBP Corporates	-1.101	0.608	0.640	0.914	-6.47%	-13.18%	-13.18%	-13.18%
iBoxx £ Corporates	-1.103	0.600	0.633	0.910	-6.49%	-13.10%	-13.10%	-13.10%
Index volatility and risk	Tracking Erro	r						
iBoxx SD-KPI GBP Corporates	0.05%	0.58%	0.45%	0.34%				



iBoxx SD-KPI USD Corporates



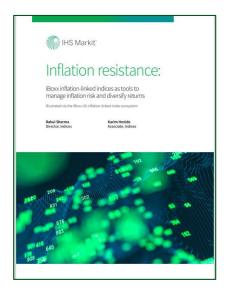
Index Returns	Annualized Re	eturn (%)	Annualized Volatility					
	1 Y	3Y	5Y	Since inception	1Y	3Y	5Y	Since inception
iBoxx SD-KPI USD Corporates	-2.80%	5.33%	4.37%	3.71%	4.35%	5.76%	4.86%	4.38%
iBoxx \$ Corporates	-2.79%	5.32%	4.36%	3.70%	4.34%	5.78%	4.88%	4.40%
Index volatility and risk	Sharpe Ratio				Max Drawdov	wn (%)		
iBoxx SD-KPI USD Corporates	-0.642	0.925	0.899	0.847	-4.72%	-14.65%	-14.65%	-14.65%
iBoxx \$ Corporates	-0.642	0.920	0.894	0.841	-4.69%	-14.84%	-14.84%	-14.84%
Index volatility and risk	Tracking Erro	r						
iBoxx SD-KPI USD Corporates	0.03%	0.10%	0.08%	0.07%				

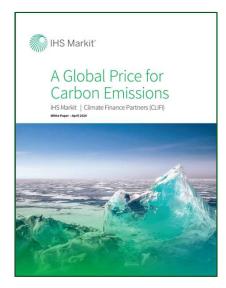


ESG & impact finance ongoing research

The IHS Markit Index Research team is dedicated to promoting engagement and dialogue around ESG















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Do you have any Questions?



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ESG Factors Disclosure

Disclosure Factors	<u>Description</u>
Item 5a-c: List of Environmental, Soci and Governance factors considered	al, SD-KPI scores are driven by 3 industry specific key performance indicators (KPIs). The full list of material ESG KPIs for the 68 different industries is outlined here: https://www.SD-KPI.com/files/SD-KPI_Standard_2016-2021.pdf. The SD-KPI Standard includes the weighting of SD-KPI 1, 2 and 3 in the accumulated SD-KPIntegration® Score in %. The index components of the iBoxx Standard index are over-/underweighted according the quintile (0-20-40-60-80-100%) of SD-KPIntegration Score to form the iBoxx SD-KPI index.
Item 7a(i): Source of input	The SD-KPI scores are sourced externally from SD-M® GmbH and its SD-KPIntegration® Database, which builds the main source. It has modeled the SD-KPI Standards since 2009 in collaboration with Sustainalytics, which has provided the ESG raw scores.
Item 7a(ii): Data input	The input data is sourced from the SD-KPInform® database, which covers more than 12,000 companies worldwide (as of December 2020).
Item 7b: Verification and quality of da	The ESG raw scores for the SD-KPInform® database are assured by Sustainalytics' total quality management. The quality of the calculated SD-KPInform® Scores is assured by SD-M's monthly plausibility checks.
	The SD-KPI Standards have been developed on behalf of the German Government and Big Four Accounting Firms since 2004. This scientific work has been done by SD-M according to the EU Modernisation Directive 2003/51/EC of the European Parliament and of the Council of 18 June 2003 amending the EC Accounting Directives 78/660/EEC, 83/349/EEC, 86/635/EEC and 91/674/EEC on the annual and consolidated accounts of certain types of companies, banks and other financial institutions and insurance undertakings. The Accounting Directives demand disclosure of "non-financial key performance indicators relevant to the particular business, including information relating to environmental and employee matters" since 2003. https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32003L0051&from=en https://www.sd-kpi.com/en/sd-kpi-standards.html
	First published in January 2010, the SD-KPI Standard 2010-2015 was the first global standard for material sector-specific ESG indicators. SD-M® surveyed global investors and analysts, who represented EUR 2 trillion in assets, on behalf of the German Government. The SD-KPI Standard 2016-2021 is currently available in English, Japanese, Chinese and Arabic versions: https://www.sd-kpi.com/files/SD-KPI_Standard_2016-2021.pdf https://www.sd-kpi.com/files/SD-KPI_Standard_2016-2021_JP.pdf https://www.sd-kpi.com/files/SD-KPI_Standard_2016-2021_CN.pdf https://www.sd-kpi.com/files/SD-KPI_Standard_2016-2021_Arabic.pdf
Item 7c: International reference	According to the BaFin Guidance Notice on Dealing with Sustainability Risks, ESG risks should be strategically considered, e.g. by means of SD-KPI Standard 2016-2021, which defines three material ESG KPIs in 68 industries. http://www.sd-kpi.com/files/BaFin_Guidance_Notice_Sustainability_Risks_SD-KPI_Standard_pages19-20.pdf
standards	The SD-KPI Standard 2016-2021 has been further supported by the Sustainability Accounting Standards Board (SASB), see page 3 of the introduction: The SD-KPI Standard 2016-2021 was revised by SASB's Technical Director Andrew Collins. SASB found a high degree of overlap in SD-KPI analysis and the SASB standards and appreciates the SD-KPI approach as well as how SD-M ranked and prioritized topics for each industry.
	The SD-KPI Standard 2016-2021 was further revised during a workshop at the German Environment and Building Ministry with the following participants: Joachim Ganse (KPMG), Dr. Hendrik Garz (Sustainalytics), Tommy Piemonte (imug), Dr. Eckhard Plinke (Vescore), Marcus Pratsch (DZ Bank), Andrea Weber (Bank J. Safra Sarasin) and Patrick Wirth (GES Switzerland).
	S&P Dow Jones Indices gave the allowance to further use the Global Industry Classification Standard (GICS) as a part of the structure of the SD-KPI Standards.
	The Guidelines to The Sustainability Code recommends the SD-KPI Standards for materiality analysis. http://www.sd-kpi.com/files/BaFin_Guidance_Notice_Sustainability_Risks_SD-KPI_Standard_pages19-20.pdf (German).
	Together with the German Environment Ministry, SD-M® has also published the brochure "Material for business and financial performance – non-financial key performance indicators releval to the particular business in the non-financial statement according to NFRD Directive 2014/95/EU (German)". https://www.sd-kpi.com/files/Wesentlich_2017.pdf
	The SD-KPI Standards represent a mainstream-capable alternative to the restrictive EU taxonomy.