Fenntartható pénzügyek, ESG befektetések

ESG Data

Turning the Art of ESG into Science

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ESG & Sustainable Finance

Drivers of Market Growth

- World is changing climate change, pollution, resource depletion
- People are changing greater awareness, transfer of capital to millennial generation
- Regulation is changing more in numbers and descriptiveness
- Data is changing breadth and depth, ESG a risk mitigation and alpha generation <u>factor</u>

Requirements changed

ESG stands for set of material nonfinancial information ensuring sustainable profitability published by the company itself and reinforced / challenged by the flow of news / controversies.





World is Changing

Climate change occurs when changes in Earth's climate system result in new weather patterns that remain in place for an extended period of time.



Follow

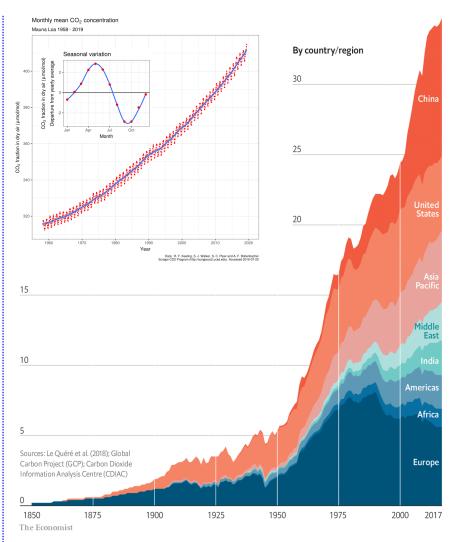
UK weather: Sunniest spring since records began

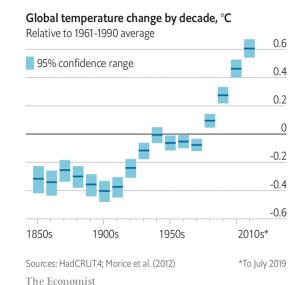
29 MAY 2020 · 2-MIN READ

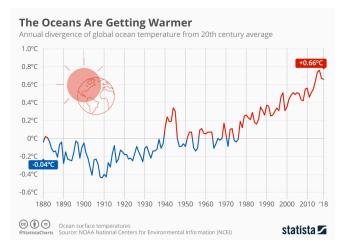
The UK has experienced its sunniest spring since records began in 1929, the Met Office has said.

It is also set to be the driest May on record for some parts of UK, including the driest in England for 124 years.

Some areas are already warning of drought conditions despite exceptionally wet weather and flooding earlier in the year.





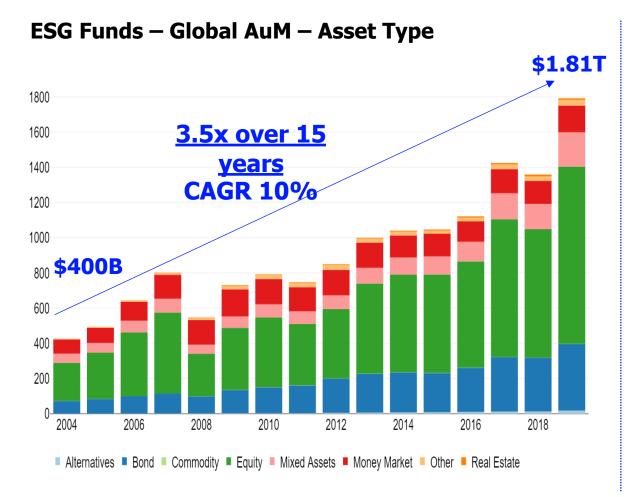


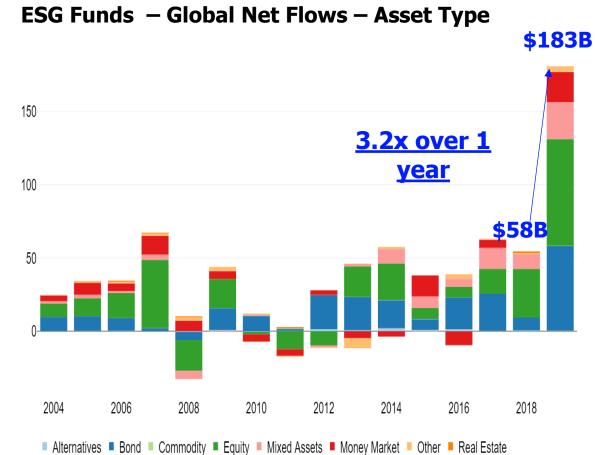
Sources: The Economist, IPCC, Wikipedia



People are Changing

After years of bank research papers indicating that the millennial generation will make a difference, manifestation has finally arrived. The role of the millennials still to be quantified, but the rise of sustainable thinking is unmatched.

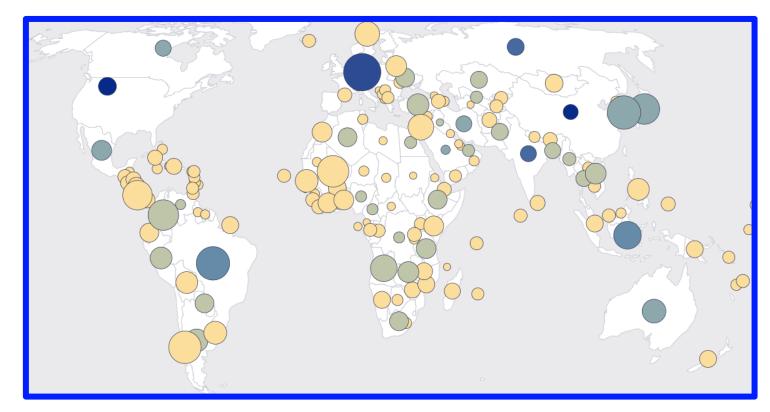






Regulation is Changing

The impending climate crisis, which will have a potentially disastrous impact on our economies and requires urgent policy action (IPCC 2018),



The **size** of the circle represents the number of climate laws and policies. The larger the circle, the higher the number of climate laws and policies

The **colour** of the circle represents Carbon dioxide emissions from the use of fossil fuel and the manufacture of cement, land-use change, and forestry (MtCO2e). The darker the circle, the higher the emissions.

25 countries and over 1,250 local governments have officially declared the existence of a climate emergency.

There are over 1,800 climate laws and policies globally

A climate emergency declaration is often accompanied by new or revised climate-related policies, regulations and measures to reduce greenhouse gas emissions.

Expect: Converging standards and ESG Innovation

Investors continue to identify inconsistent information as one of the primary hurdles for investing in ESG, and as a result, regulators are trying to provide a platform to facilitate the production of better and more comparable data.

The EU Sustainable Finance Action Plan is in the process of introducing measures that seek to improve the consistency of information — whether through a green taxonomy or disclosure regulation — further technical guidance will be produced in 2020.

By: Julia Walker, Head of Government and Industry Affairs, Refinitiv



Data is Changing – ESG a Factor

S&P 1200 Energy and a factor model: equally weighted ESG Score and Total Return

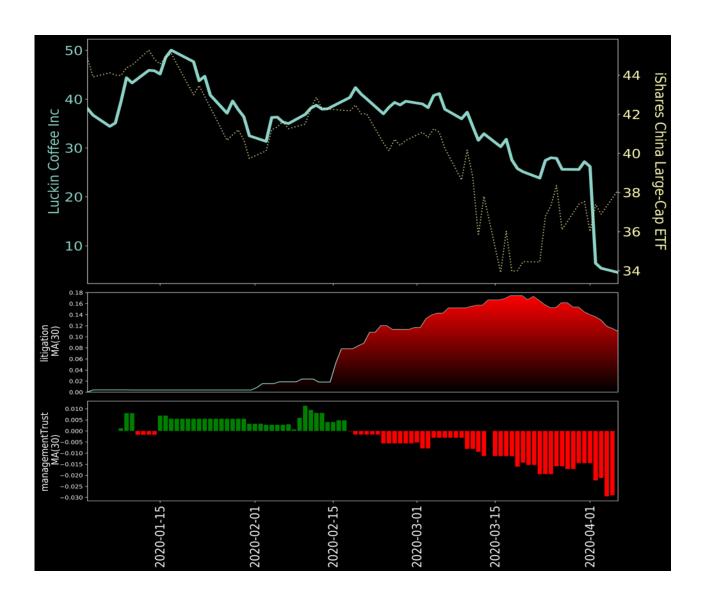
S&P 1200 Energy Top Quintile vs Bottom Quintile

- Total Return with 11.67% better in top vs bottom
- ESG score difference: 43.62 in favour in top
- Emission score difference: 38.67





Data is Changing – ESG a Factor



ManagementTrust and Litigation Index

Luckin Coffee shares dropped 75% when they revealed that their accounting was improper in **beginning April**. But **MarketPsych** data showed very low *ManagementTrust* and an increase in *Litigation* before the reveal.

Luckin Coffee's chart of 2020 shows that MarketPsych *Litigation Index* rose substantially towards the company since back in February, and the *ManagementTrust* Index fell substantially. Clearly, there was concern back in **mid February**. Luckin Coffee's share price is the light blue line. Also plotted the China Composite index against the share price for Luckin, to show when Luckin substantially diverged from its parent index.

MarketPsych Details



ESG Use Cases

Asset Management

Focused on ESG Strategies

- Capital allocation screening out of various company exposures
- Identify best-in-class companies on ESG criteria
- Determine laggards & drive shareholder activist campaigns
- Measure, track and quantify impact of allocation decisions on nonfinancial criteria
- Track company performance on ESG issues vs benchmark

Focused on Pure Risk Return Strategies

- Identify ESG metrics that can be used to drive long term risk models to inform avoidance of exposure to transition, physical, reputational risks
- Identify ESG data correlations with long term under/out performance to inform alpha generation strategies

Quant Analysts & Hedge Funds

- Identify ESG metrics that can be used to drive short term risk models to inform avoidance of exposure to reputational risks
- Utilize unstructured news and to inform long strategies
- Utilize controversies data to inform short strategies

Investment Banks

- Clients willing to bank with based on ESG considerations?
- Identifying acquisition/divestiture options for clients to drive sustainable outcomes
- Identifying clients in need of transition financing
- Quantifying risk exposure (transition/physical/reputational) on the lending book
- Using T&C's data on precedent sustainable financing deals to inform pricing

Wealth Advisors

- Provision of ESG scores / specific metrics in portals to investors
- Screening out certain securities based on company activity
- Index tracking on ESG criteria

Companies

- Use data to measure / track / manage the transition to sustainable operations
- Report and benchmark on sustainability performance to ensure uninterrupted financing of corporate operations
- Adhere to regulatory requirements



Requirements changed

Generations of ESG Integration



!! Data Requirements have changed !!

- 1. Transparency, quality, combination of ratings and details
- 2. Data and analytics equally important
- 3. Handled as fundamental data rather than alternative data
- 4. Asset class expansion: funds, fixed income, countries

Outside-IN



- Public's perception of a company's performance
- Numerous news and social media sources
- Al powered "sentiment scoring"
 - Frequently updating
 - PiT time series & overlay
 - ⊖ Relative compared to previous state
 - ⊖ Obscure methodology
 - Limited number of indicators

Inside-OUT Rules Based REFINITIV

- Company's own view collected, interpreted and transformed into ESG Scoring/Ranking
- Publicly available information, generated by the company + news controversies
- Data based, rules based rating of companies performance
 - Regular updates » time series
 - Transparent methodology
 - Customizable, ratings to individual indicator level
 - → Doesn't provide expert advise
 - O Work with data might be cumbersome

Inside-OUT Researched Based

- Company's own view collected, interpreted and transformed into ESG research
- Publicly available information, generated by the company + news & social media for controversies
- Data based, subjective judgement on companies performance
 - Infrequent, irregular updates
 - Deep Analysis on performance

 - ⊖ Obscure methodology
 - Limited number of indicators

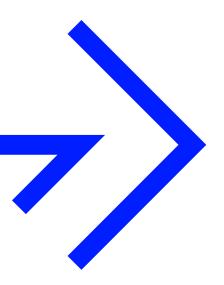
More and more of Data – Analytics – Onboarding



Provision

Data

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Refinitiv ESG Ratings



Rating Structure

- Objective quantitatively driven, best in class rating built on publicly available data, with no human opinion involved combining company reporting & controversies through a bottomup ranking aggregation.
- 2. Introduces a materiality matrix derived through reporting transparency and relative weight of industry group median values.
- 3. Adds transparency stimulus by penalising non-reporting of metrics through clearly defined formulae.

4. Clear ratings description

Grade	Description	
D -	"D" score indicates poor relative ESG performance and insufficient degree of transparency in reporting material ESG data publicly.	
D		
D +		
C -	"C" score indicates satisfactory relative ESG performance and	
С	moderate degree of transparency in reporting material ESG data publicly.	
C +		
B -	"B" score indicates good relative ESG performance and above	
В	average degree of transparency in reporting material ESG data publicly.	
B +		
A -	"A" score indicates excellent relative ESG performance and high	
А	degree of transparency in reporting material ESG data publicly.	
A +		



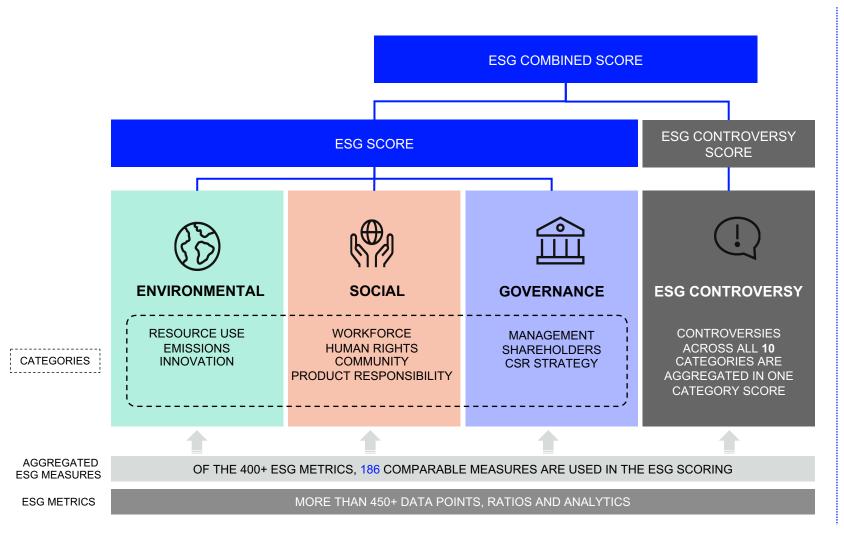
ESG

Leaders

ESG Laggards

Rating Structure

Combining company reporting & controversies through a bottom-up ranking aggregation



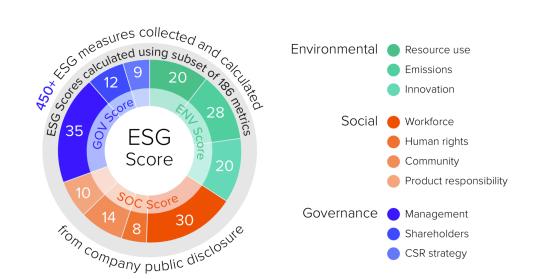
ESG Controversies Score is calculated based on 23 ESG controversy topics

 Same percentile ranking formula as ESG scores based on the number of controversy news with severity rate applied determined by company market cap

#	Category	Controversy Title
1	Community	Anti-Competition Controversy
2	Community	Business Ethics Controversies
3	Community	Intellectual Property Controversies
4	Community	Critical Countries Controversies
5	Community	Public Health Controversies
6	Community	Tax Fraud Controversies
7	Human Rights	Child Labor Controversies
8	Human Rights	Human Rights Controversies
9	Product Res.	Consumer Controversies
10	Product Res.	Controversies Customer Health & Safety
11	Product Res.	Controversies Privacy
12	Product Res.	Controversies Product Access
13	Product Res.	Controversies Responsible Marketing
14	Product Res.	Controversies Responsible R&D
15	Workforce	Diversity and Opportunity Controversies
16	Workforce	Employees Health & Safety Controversies
17	Workforce	Wages Working Condition Controversies
18	Workforce	Strikes
19	Management	Mgt Compensation Controversies
20	Shareholders	Accounting Controversies
21	Shareholders	Insider Dealings Controversies
22	Shareholders	Shareholder Rights Controversies
23	Resource Use	Environmental Controversies



Rating Structure



Percentile Rank scoring methodology

- Benchmarked to TRBC Industry Groups (Country of Domicile in case of Governance)
- Category score is derived as sum of all the metrics scores used to create it followed by ranking
- Zero transparent companies (not reporting anything in specific category) are excluded while calculating percentile ranks
- Zero transparent companies get category score = 0

Title	Dt.	+/-
Total CO2 Equivalent Emissions To Revenues USD	F(I)	-
VOC or Particulate Matter Emissions Reduction	В	+
Total Waste To Revenues USD	F(I)	-
Waste Recycled To Total Waste	F(I)	+
Total Hazardous Waste To Revenues USD	F(I)	-
Water Pollutant Emissions To Revenues USD	F(I)	-
Environmental Expenditures Investments	В	+
Policy Emissions	В	+
Targets Emissions	В	+
Biodiversity Impact Reduction	В	+
Flaring Gases	F	-
Cement CO2 Equivalents Emission	F	-
Ozone-Depleting Substances	F	-
NOx and SOx Emissions Reduction	В	+
NOx Emissions	F	-
SOx Emissions	F	-
VOC Emissions	F	-
e-Waste Reduction	В	+
Emissions Trading	В	+
Environmental Partnerships	В	+
EMS Certified Percent	В	+
Environmental Restoration Initiatives	В	+
Staff Transportation Impact Reduction	В	+
Accidental Spills	F	-
Climate Change Commercial Risks Opportunities	В	+
CO2 Equivalent Emissions Indirect, Scope 3	F	-
Self-Reported Environmental Fines	F	-
Internal Carbon Price per Tonne	F	+

score =	n. of companies with a worst value + –	n. of companies with the same value included in the current one
		2
	n. of companies with a value	

^{*}Magnitude weights of all ten categories are summed up for respective industry group. Each category magnitude weight is divided by sum of magnitude weights of respective industry group to derive category weight.

Category & Pillar Weights

Different according to materiality to the industry group*

Coal

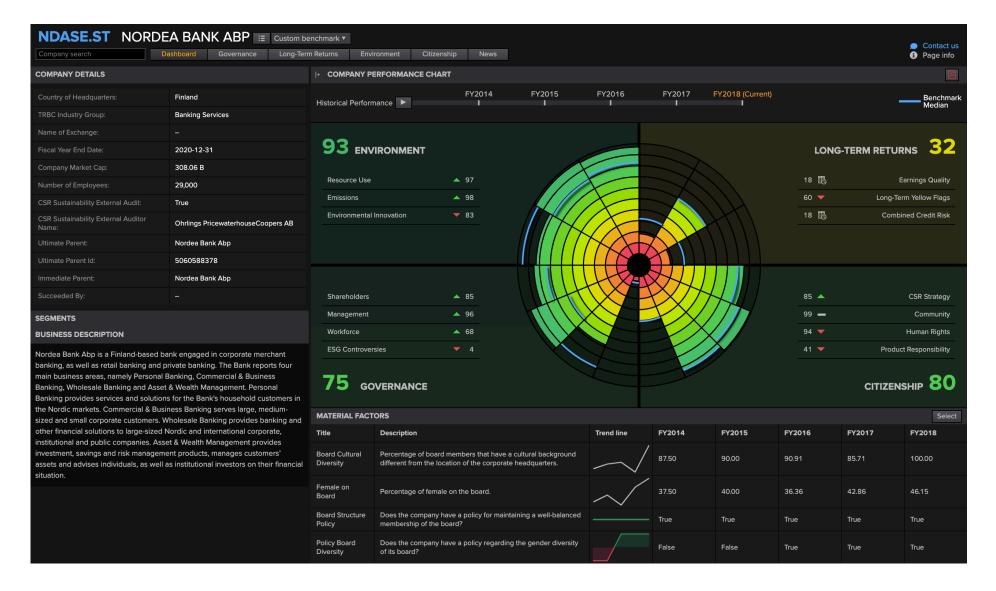
Pillar	Category	W %	PW %
	Resource Use	19%	
E	Emissions	20%	41%
	Innovation	2%	
	Workforce	10%	
S	Human Rights	7%	29%
	Community	10%	23 /0
	Product Res.	2%	
	Management	20%	
G	Shareholders	6%	30%
	CSR Strategy	4%	

Banking Services

Pillar	Category	W %	PW %
	Resource Use	2%	
E	Emissions	2%	14%
	Innovation	10%	
	Workforce	19%	
S	Human Rights	10%	50%
3	Community	12%	30 /6
	Product Res.	9%	
	Management	24%	
G	Shareholders	7%	36%
	CSR Strategy	5%	



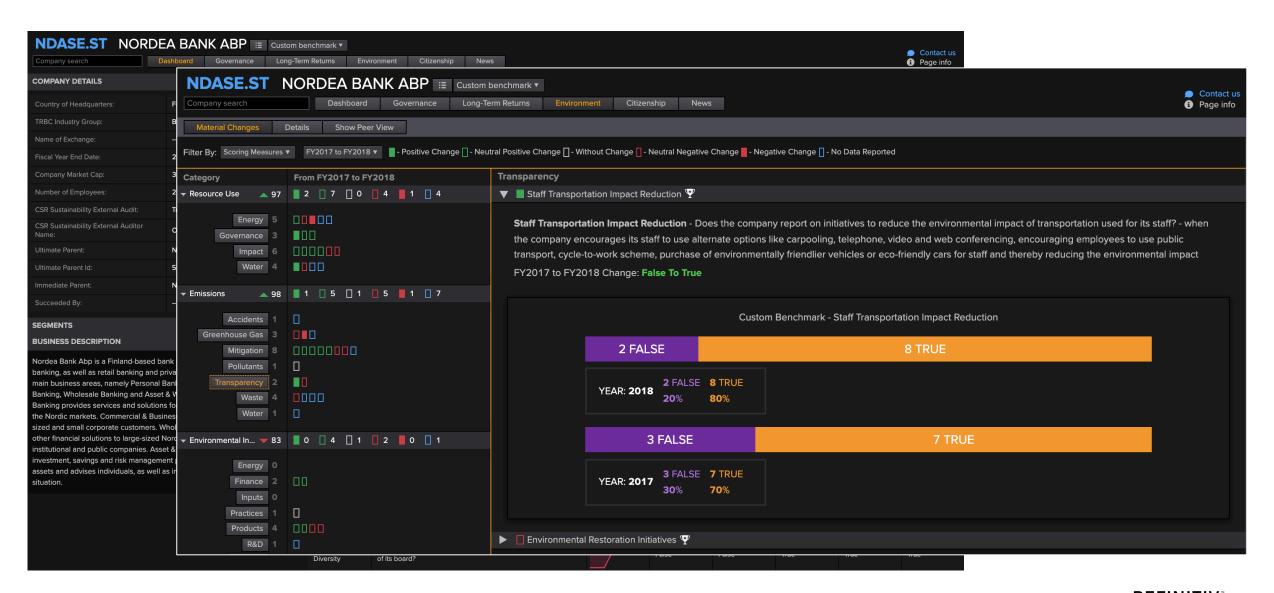
Overview Analytics



PEERS MANAGER		
Company search		
RIC	Name	
SWEDA.ST	Swedbank AB	
SEBA.ST	Skandinaviska Enskilda Banken AB	
SHBA.ST	Svenska Handelsbanken AB	
DNB.OL	Dnb ASA	
DANSKE.CO	Danske Bank A/S	
KBC.BR	KBC Groep NV	
CBKG.DE	Commerzbank AG	
ABND.AS	ABN Amro Bank NV	
STAN.L	Standard Chartered PLC	



Overview Analytics





Onboarding

REFINITIV" 👤 Lakshmi,Amrutha 🤝 ♠ Home ♠ Change Password Officers & Directors **Short video demo here U** Log out WHY CONTRIBUTE? **Environmental, Social and Governance** Officers & Directors As an investor relations professional, you now have the ability to review and update your firm's officers & directors' data on our platform. Join the 50,000 public and 125,000 private companies representing 1.76 million unique people by contributing your firm's details to one of the most comprehensive databases Welcome to The REFINITIV Contributions of executives and directors in the world. Our database is the industry source Email Channel for: amrutha.lakshmi@refinitiv.com Identifying key decision makers in an organization Password THE RIGHT DATA WON'T • Researching key linkages and evaluating the strength of a management • COLLECT, CONTEXTUALISE, •••• CONNECT, ANALYSE, INTERPRET REFINITIV Conducting due diligences on people AND VISUALISE ITSELF. Forgot Password? Request Access Monitoring personnel changes for a particular company or industry Using our new Officers and Directors Contributor Tool, you are able to manage

• Review and edit the historical ESG data that is already available for your

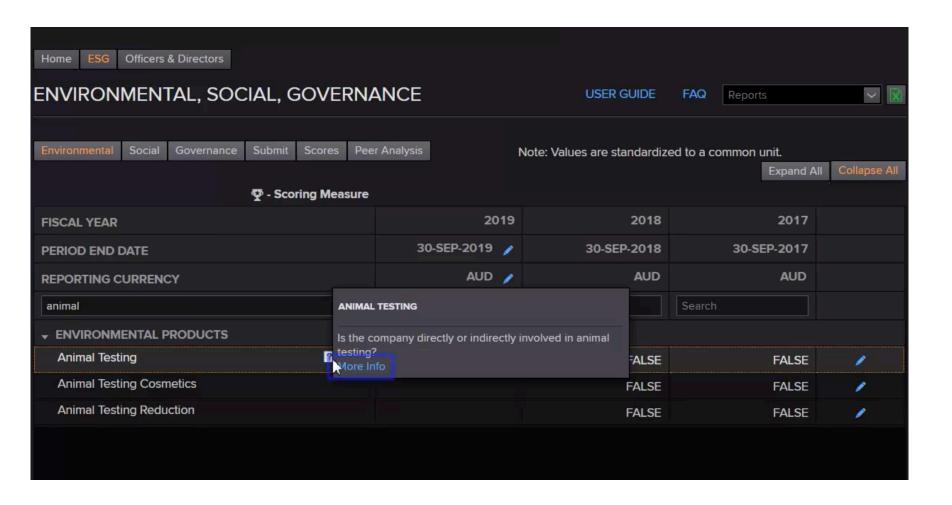


your firms officers and directors' data that is then disseminated to institutional investment firms, investors, corporations, universities & research firms across

our suite of products and partners' products (i.e. Financial Times).

ESG Contribution – Your Reporting One-stop Shop

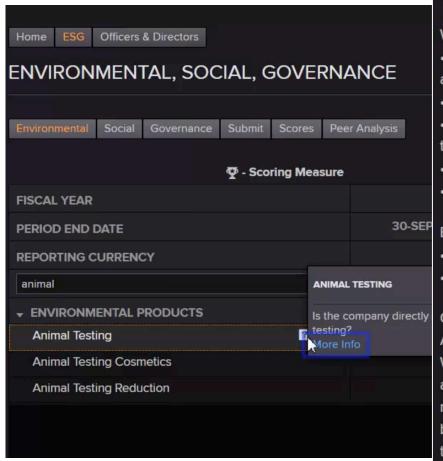
ESG Categories and Data Dictionary





Onboarding

ESG Categories and Data Dictionary



ANIMAL TESTING

Is the company directly or indirectly involved in animal testing?

What we expect from you:

- Provide, if the company is testing its products on animals or if it is sourcing raw materials which are tested on animals.
- Provide, if the company claims to be gradually reducing or replacing the number of animal tests.
- Answer No, if the company mentions that it is not involved in animal testing or if it claims to have ended all animal testing.
- Provide, if the company claims to perform animal tests solely in cases where this is required by law.
- The data measure is mostly relevant to the health care sector.

Below cannot be considered:

- Non-Animal Testing.
- · Positron Emission Tomography (PET).

Qualified Data:

Animal research

We recognise that animal research is a subject of ethical concern. We use alternatives to animals whenever we can and we aim to carry out studies with the fewest animals possible. However, animal studies remain a vital part of our research as, in many cases, this is the only way to demonstrate the effects of a potential new medicine in a living body before it is tested in humans. Regulations require us to test the safety of all new medicines on animals before they are evaluated in clinical trials.

Explanation- The Company is involved in Animal Testing.



Regulatory Overhang

NFRD

Non-Financial Reporting Directive *In force*

WHAT - Under Directive 2014/95/EU, large companies have to publish reports on the policies they implement in relation to environmental protection, social responsibility and treatment of employees, respect for human rights, anti-corruption and bribery.

Non-financial reporting apply to large public-interest companies with more than 500 employees. This covers approximately 6,000 large companies and groups across the EU, including listed companies, banks, insurance companies, other companies designated by national authorities as public-interest entities

SFDR

Sustainable Finance Disclosure Regulation *March 2021*

This regulation will introduce disclosure obligations on how institutional investors and asset managers integrate environmental, social and governance (ESG) factors into their risk management processes. Delegated acts will further specify requirements on integrating ESG factors into investment decisions, which is part of institutional investors' and asset managers' duties towards investors and beneficiaries.



Thank you!

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