

### ESG Investment Analysis: Becoming New Mainstream?

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22 November 2019

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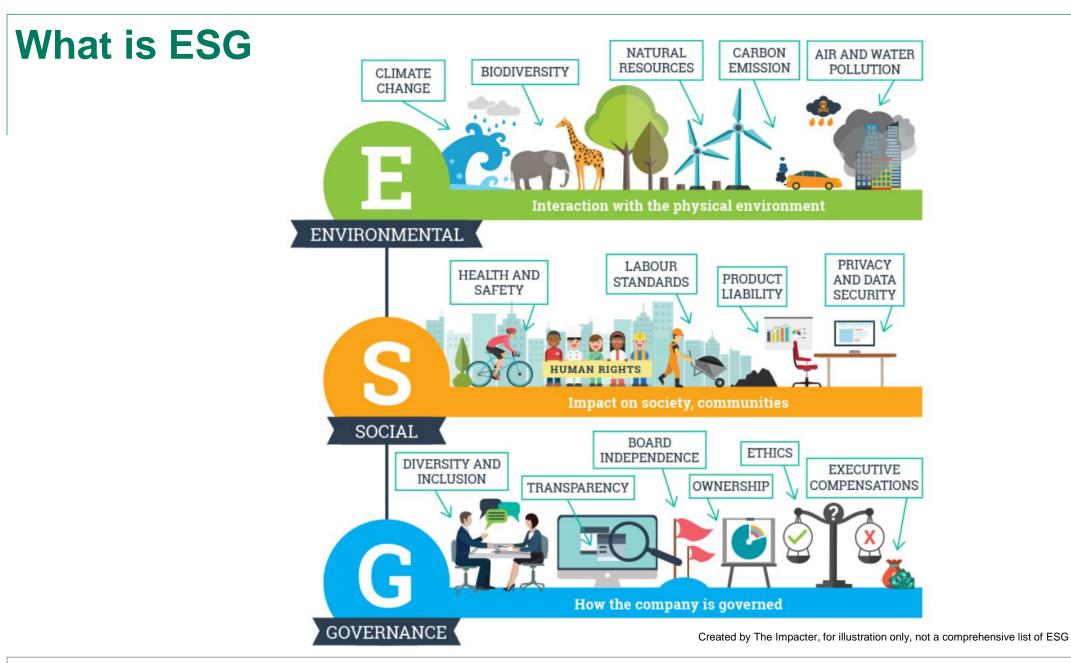
The business of sustainability

#### Agenda

- What is ESG and How It Create Values
- Stakeholder Interest
- Investor Momentum
- Evolving Interests
- ESG Ecosystem
- ESG Due Diligence: Tech Sector (example)
- Corporate Resources
- ESG Analysis
- About ERM



What is ESG and How ESG Create Values



#### **How ESG Creating Values**

- Top-line growth from such as sale of sustainable products, better access to resources through stronger community and government relations
- Cost reductions from such as lower energy consumption, water intake reduction, packaging reduction
- Lesser regulatory and legal interventions, earn subsidies and government support, avoid incurring fines, penalties and enforcement actions
- Productivity uplift that boost employee motivation, attract talent through greater social credibility
- Investment and asset optimization by better allocating capital for the long term (plant and equipment), avoid investments with longer-term environment issues

# Companies with high ESG performance outperform the market



The "Top 20%" outperform the "Bottom 20%" by 3.4% p.a.

Source: Arabesque s-ray: case for corporate sustainability 2019

#### Stakeholder Interest

#### **Stakeholder Interest**

Stakeholder pressure that customers receive from the groups listed below drives the need for sustainability management. As pressure from these groups increases, customers enhance their management across their value chains, and the pressure transfers upstream to suppliers.



#### Investor Momentum

#### **Investor Interests**

Investors are increasingly asking companies to disclose strategies for long-term value creation and incorporation of ESG into business strategies.

# BLACKROCK

"Unnerved by fundamental economic changes and the failure of government to provide lasting solutions, society is increasingly looking to companies, both public and private, to address pressing social and economic issues. These issues range from protecting the environment to retirement to gender and racial inequality ... Companies that fulfill their purpose and responsibilities to stakeholders reap rewards over the long-term. Companies that ignore them stumble and fail. This dynamic is becoming increasingly apparent as the public holds companies to more exacting standards."

- Larry Fink, BlackRock Letter to CEOs, 2019



"Researchers have documented that in the U.S. and U.K. now, more value is driven by intangible, rather than tangible, assets. However, through engagement we have found that few directors can adequately articulate their company's culture or demonstrate how they assess, monitor and influence change when necessary... we do believe that this is a material issue that must be addressed by companies and investors."

- Cyrus Taraporevala, State Street Letter to Board Members, 2019



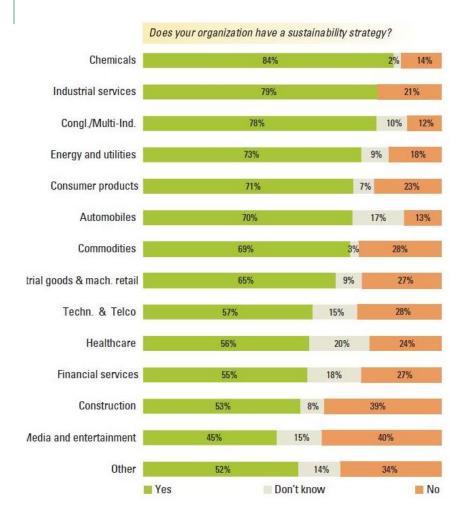
กบข. ร่วมกับนักลงทุนสถาบันรวม 32 ราย ประกาศ เจตนารมณ์ความร่วมมือค้านการลงทุนอย่างรับผิดชอบ (ESG Collaborative Engagement) โดยร่วมลงนาม แนวปฏิบัติ "การระงับลงทุน" (Negative List Guideline) ในบริษัทจดทะเบียนที่มีประเด็นปัญหา ESG





Further Reading: Why the world's largest asset managers are pushing long-term thinking, Mark Tulay, Director, Strategic Investor Initiative, CECP

#### **Pressure from Investors**



Why is a company's good sustainability performance important to your firm when making investment decisions?

Company's increased potential for long-term value creation	51%		31%		12% 4%
Company's improved revenue potential	38%	37%		15%	5 7%
Company's better operational efficiency	38%	36%		17%	5%
Company's compliance with market expectations	32%	40%		19%	6%
Signals effective management	30%	42%		18%	6%
Company's enhanced employee productivity, retention and attraction	31%	39%		21%	6%
Company's increased innovation potential	37%	33%		18%	8% 4%
Company's higher community acceptance / social license to	36%	33%		21%	8%
Company's lower risk	30%	36%		22%	8%
Company's lower costs of capital	23%	33%	27%		9% 5%
	Very Quite important impor	Somewhat tant important	Slightly important		Don't know ortant

Source: Investing for a sustainable future MITSIoan Management Review 2016

#### World's Largest Asset Manager Encourages Long-Term Focus on Creating Sustainable Value

In his annual letter to the CEOs of the S&P 500 on January 12, 2019, Larry Fink once again highlighted the importance of understanding the impacts that will enable long-term financial growth.

BlackRock's <u>Investment Stewardship</u> engagement priorities for 2019 are:

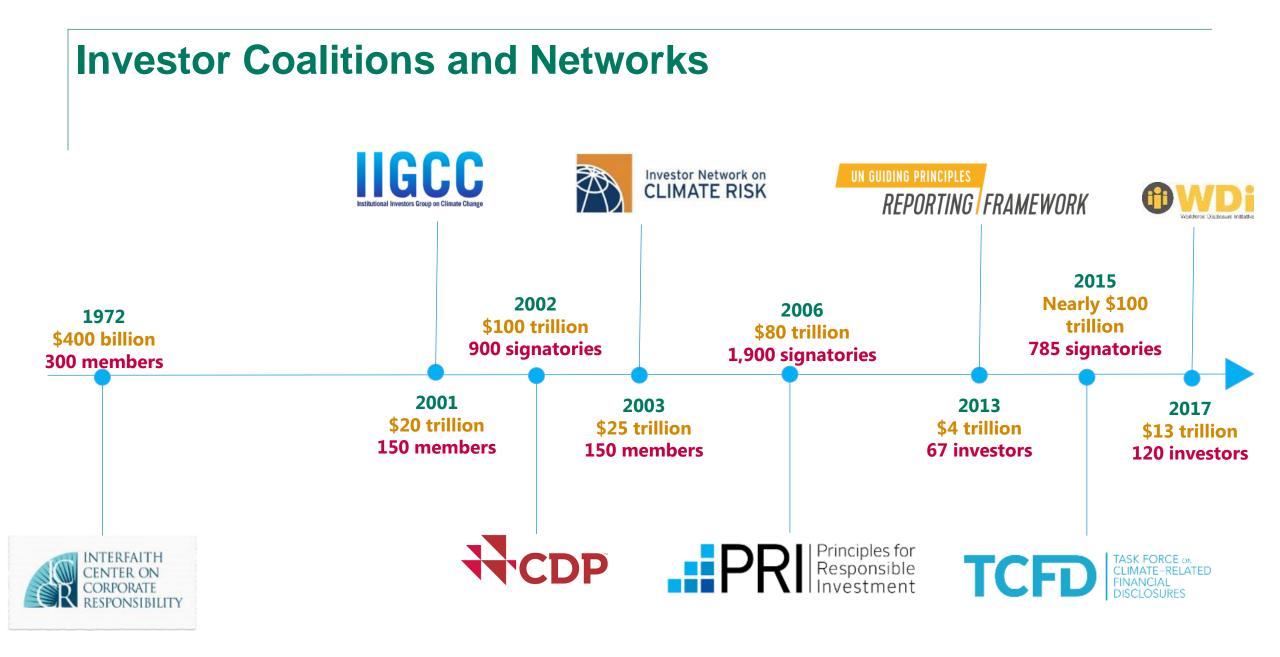
- governance, including . . . board diversity;
- corporate strategy and capital allocation;
- compensation that promotes long-termism;
- environmental risks and opportunities; and
- human capital management.

#### A Sense of Purpose

#### Dear CEO,

As BlackRock approaches its 30th anniversary this year, I have had the opportunity to reflect on the most pressing issues facing investors today and how BlackRock must adapt to serve our clients more effectively. It is a great privilege and responsibility to manage the assets clients have entrusted to us, most of which are invested for long-term goals such as retirement. As a fiduciary, BlackRock **engages with companies** to drive the sustainable, long-term growth that our clients need to meet their goals.

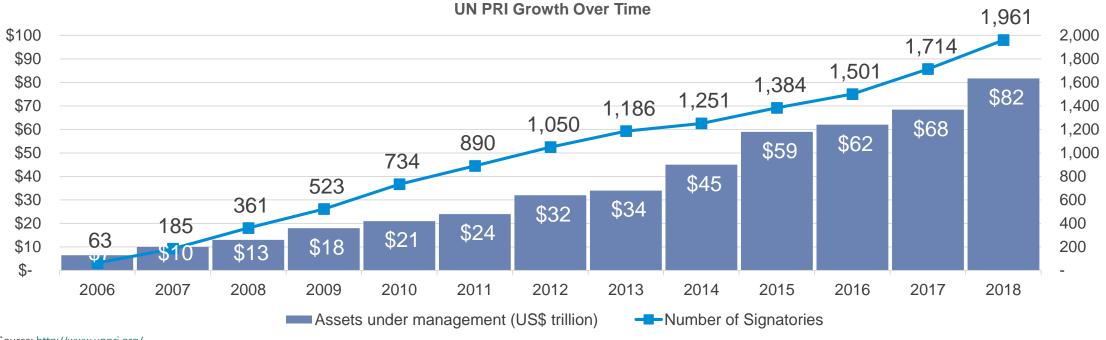
In 2017, equities enjoyed an extraordinary run – with record highs across a wide range of sectors – and yet popular frustration and apprehension about the future simultaneously reached new heights. We are seeing a paradox of high returns and high anxiety. Since the financial crisis, those with capital have reaped enormous benefits. At the same time, many individuals across the world are facing a combination of low rates, low wage growth, and inadequate retirement systems. Many don't have the financial capacity, the resources, or the tools to save effectively; those who are invested are too often over-allocated to cash. For millions, the prospect of a secure retirement is slipping further and further away – especially among workers with less education, whose job security is increasingly tenuous. I believe these trends are a major source of the anxiety and polarization that we see across the world today.



### **UN Principles for Responsible Investment (PRI)**

The United Nations-supported Principles for Responsible Investment is an international network of investors working together to understand the implications of sustainability for investors and support signatories to incorporate these issues into their investment decision making and ownership practices.

- 2006: 63 investment companies with \$6.5 trillion in assets under management (AUM)
- 2018: 1,961 signatories with \$81.7 trillion in AUM (21 percent increase in 12 months)



Source: http://www.unpri.org/



# **Evolving Interests**

### **GRI (1997) – Globally Crowdsourced ESG Issues**

<ul> <li>Environmental</li> <li>Materials</li> <li>Energy</li> <li>Water</li> <li>Biodiversity</li> <li>Emissions</li> <li>Effluents and Waste</li> <li>Products and Services</li> <li>Environmental Compliance</li> <li>Transport</li> <li>Supplier Environmental Assessment</li> <li>Environmental Grievance Mechanisms</li> </ul>	<ul> <li>Human Rights</li> <li>Non-discrimination</li> <li>Freedom of Association &amp; Collective Bargaining</li> <li>Child Labor</li> <li>Forced /Compulsory Labor</li> <li>Security Practices</li> <li>Indigenous Rights</li> <li>Supplier Human Rights Assessment</li> <li>Human Rights Grievance Mechanisms</li> </ul>	<ul> <li>Labor Practices</li> <li>Decent Work</li> <li>Training and Education</li> <li>Employment</li> <li>Labor/Management Relations</li> <li>Occupational Health &amp; Safety</li> <li>Diversity &amp; Equal Opportunity</li> <li>Equal Remuneration for Men and Women</li> <li>Supplier Assessment for Labor Practices</li> <li>Labor Practices Grievance Mechanisms</li> </ul>
<ul> <li>Economic Performance</li> <li>Philanthropy</li> <li>Market Presence</li> <li>Indirect Economic Impacts</li> <li>Economic Inclusion</li> <li>Procurement Practices</li> </ul>	<ul> <li>Society</li> <li>Anti-Corruption</li> <li>Public Policy</li> <li>Anti-competitive Behavior</li> <li>Local Communities</li> <li>Supplier Assessment for Impacts on Society</li> <li>Grievance Mechanisms for Impacts on Society</li> </ul>	<ul> <li>Product Responsibility</li> <li>Customer Health &amp; Safety</li> <li>Product &amp; Service Labeling</li> <li>Marketing Communications</li> <li>Customer Privacy</li> <li>Product Compliance</li> </ul>

### **GHG Protocol (1997)**

GREENHOUSE GAS PROTOCOL ABOUT STANDARDS GUIDANCE CALCULATION TOOLS EVENTS **ONLINE TRAINING** Subscribe to our mailing list to receive the latest updates from GHG Protocol. SIGN UP For media inquires, please contact: What is GHG Protocol? Yelena Akopian GHG Protocol establishes comprehensive global standardized frameworks to Marketing And Communications Specialist measure and manage greenhouse gas (GHG) emissions from private and public in World Resources Institute sector operations, value chains and mitigation actions. yelena.akopian@wri.org Building on a 20-year partnership between World Resources Institute (WRI) and the Office: +1 202-729-7845 World Business Council for Sustainable Development (WBCSD), GHG Protocol works with governments, industry associations, NGOs, businesses and other organizations. We offer online training on our standards and tools, as well as the "Built on GHG RI/WBCSD Green Protocol" review service, which recognizes sector guidance, product rules and tools that are in conformance with GHG Protocol standards. Who Uses GHG Protocol? GHG Protocol supplies the world's most widely used greenhouse gas accounting standards. The Corporate Accounting and Reporting Standard provides the accounting platform for virtually every corporate GHG reporting program in the world. **Companies and Organizations** In 2016, 92% of Fortune 500 companies responding to the CDP used GHG Protocol directly or indirectly through a program based on GHG Protocol.

Learn more about our work for companies and organizations.

### **IIRC (2009 / 2010) – Six Capitals**

THE IIRC NEWS NETWORKS PUBLICATIONS TRAINING CORPORATE REPORTING DIALOGUE CONTACT US

#### The <u>IIRC</u>

#### The IIRC

#### Structure of The IIRC

Governance and funding

IIRC Partners

Mission The IIRC's mission is to establish integrated reporting and thinking within mainstream business practice as the norm in the public and private sectors.

#### Vision

The IIRC's vision is to align capital allocation and corporate behaviour to wider goals of financial stability and sustainable development through the cycle of integrated reporting and thinking.

The International Integrated Reporting Council (IIRC) is a global coalition of regulators, investors,

is promoting communication about value creation as the next step in the evolution of corporate reporting.

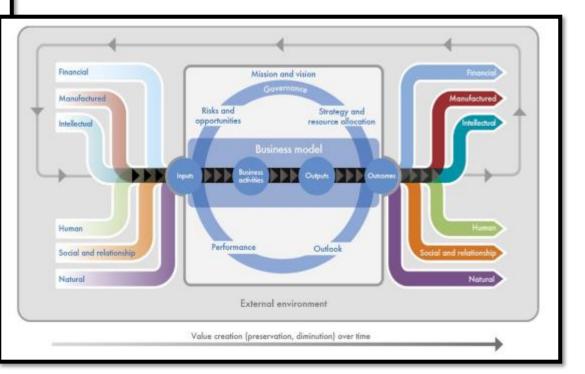
companies, standard setters, the accounting profession and NGOs. The coalition

#### The Momentum Phase

The IIRC's is in the Momentum Phase of its strategy, delivering accelerated action towards our goal for integrated thinking and reporting to be the global norm and building on achievements following the IIRC' breakthrough phase (2014-2018). The IIRC is leveraging the support of its partners to create the scale an pace to deliver a step change in adoption. The IIRC's objective for this phase is to change the corporate reporting system so that integrated reporting becomes the global norm.

#### Six Capitals:

- Financial
- Manufactured
- Intellectual
- Human
- Social and relationship
- Natural



### SASB (2010 / 2011)



#### SASB Materiality Map™

SASB's Materiality Map<sup>w</sup> identifies sustainability issues that are likely to affect the financial condition or operating performance of companies within an industry. In the left-hand column, SASB identifies 26 sustainability-related business issues, or General Issue Categories, which encompass a range of Disclosure Topics and their associated Accounting Metrics that wary by industry. For example, the General Issue Category of Customer Welfare encompasses both the Health and Nutrition topic in the Processed Foods industry and the Counterfeit Drugs topic in the Health Care Distributors industry. For commercial use terms of the Materiality Map, please contact us.

Sector Level Map

#### Industry Level Map

 Issue is likely to be material for more than 50% of industries in sector
 Issue is likely to be material for fewer than 50% of industries in

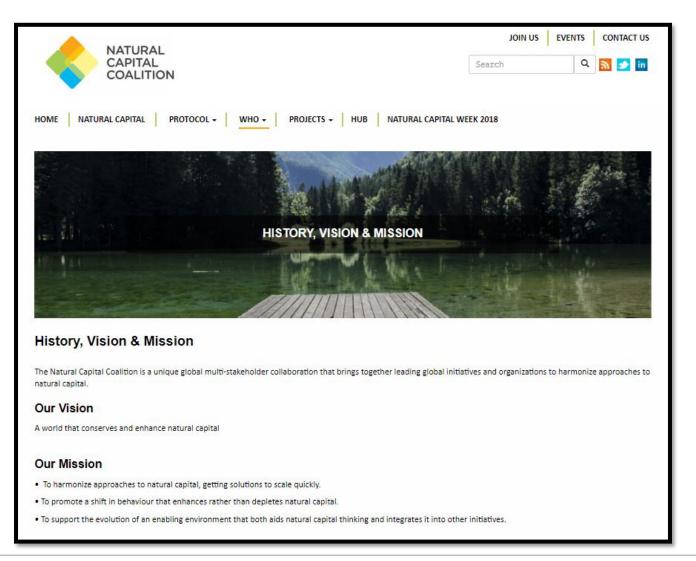
sector Issue is not likely to be material for any of the industries in

sector

Not likely a material issue for companies in the industry
 Likely a material issue for companies in the industry

		Consumption	Financials	Health Care	Infrastructure	Non-Renewable Resources	Renewable Resources & Alternative Energy	Resource Transformation	Services	Technology & Communications	Transportation
Dimension	General Issue Category	Click to expand	Click to expand	Click to expand	Click to expand	Click to expand	Click to expand				
	GHG emissions										
	Air quality										
	Energy management										
Environment	Fuel management										
	Water and wastewater management										
	Waste and hazardous materials management										
	Biodiversity impacts										
	Human rights and community relations										
	Access and affordability										
Social	Customer welfare										
Capital	Data security and customer privacy										
	Fair disclosure and labeling										
	Fair marketing and advertising										
	Labor relations										
	Fair labor practices										
Human	Employee health, safety and wellbeing										
Capital	Diversity and inclusion										
	Compensation and benefits										
	Recruitment, development and retention										
	Lifecycle impacts of products and services										
Business Model and	Environmental, social impacts on core assets and operations										
Innovation	Product packaging										
	Product quality and safety										
	Systemic risk management										
	Accident and safety management										
Leadership	Business ethics and transparency of payments										
and Governance	Competitive behavior										
Governance	Regulatory capture and political influence										
	Materials sourcing										
	Supply chain management										

#### Natural Capital Coalition & Protocol (2012 / 2014)



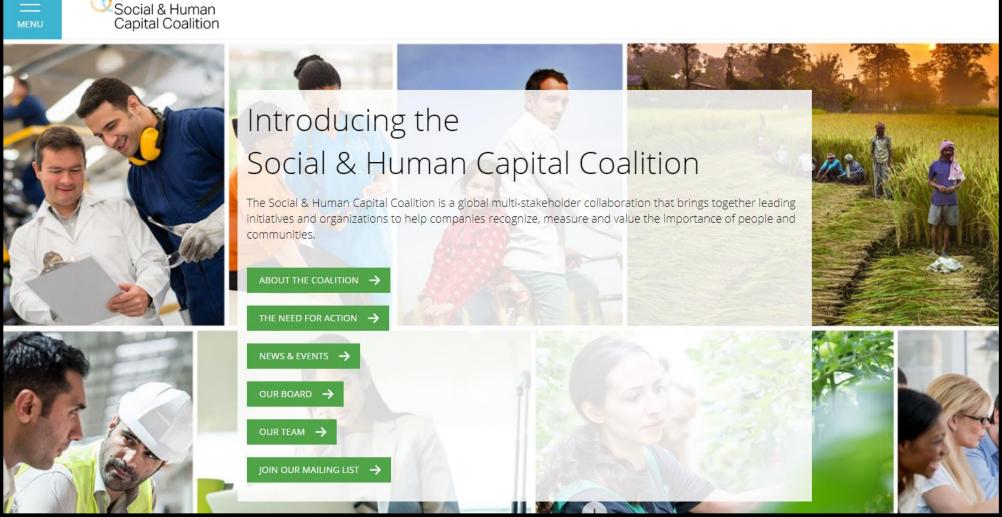
#### Task Force on Climate-Related Financial Disclosures (2015)

Task Force on clima Task Force About Task Force related Fin Disclosure	e on Climat		upporters News in У
support Become a TCFD Supporter	webinar How You Can Support the TCFD	Press Release TCFD is presented 2018 C.K. Prahalad Award	video Learn more about the TCFD
Incre	economies mor	akes markets more effic e stable and resilient. . Bloomberg, Chair	zient, and

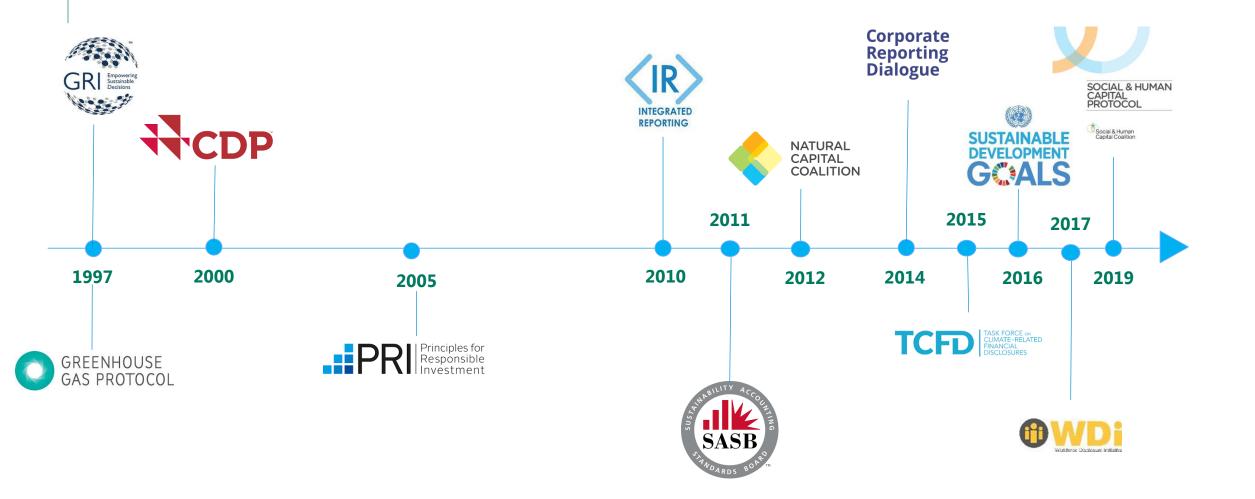
### SDGs (2015 / 2016)



### Social & Human Capital Coalition (2016 / 2019)



#### **20+ Years of Compounding Interest**



# ESG Ecosystem

#### Who makes up the ESG Ecosystem?

Based on sustainability reporting standards and frameworks, there are 100+ organizations producing lists, rankings, ratings, and scorecards of the "top companies" and "most sustainable" companies.



ESG Due Diligence: Tech Sector

### **ESG Scores & Comparisons (sample)**

Overview Con	np Sheets	Markets	EPS Previ	ew Owr	nership	Credit	Custom	¢			
Equity Valuation	CDS Spread	s Profita	bility Ba	lance Sheet	ESG						
Name †	RobecoSAM Total Sustainability Rank	Sustainalytics ESG Rank	ISS Governance Quickscore	CDP Performance Score	ESG Disclosure Score	% Independent Directors on Board	% Women on Board	CEO Tenure as of FYE	Total Compensation Awarded to CEO	% Women in Workforce	Energy Intensity per Sales
Median	70	91.10	3.50	7.00	53.11	88.19	24.04%	4.54	11.88M	30.90	68.65
100) ALIBABA GROUP HOLDI	11										
101)ALPHABET INC-CL A	57	83.73	10.00	8.00		54.55		3.25		30.90	
102) AMAZON.COM INC	45	17.20	6.00			88.89	33.33%	22.67			
103) APPLE INC	18	77.32	1.00	8.00	53.11	87.50	25.00%	7.17	15.68M	33.00	9.78
104) FLEX LTD	64	87.63	4.00	4.00				13.00			
105) HITACHI LTD	70	68.04	1.00	6.00	57.85	66.67	16.67%	2.00	5.18M		300.14
106) HUAWEI TECHNOLOGIES											
107) INTEL CORP	70	98.25	3.00	7.00		88.89	22.22%	0.58	34.76M		
108) INTL BUSINESS MACHI	66	94.58	7.00	6.00		92.31	23.08%	7.00	17.55M		
109) LG ELECTRONICS INC	100		4.00	8.00				2.08	2 <b>.</b> 84M		
110) MICROSOFT CORP	91	95.78	1.00	8.00		85.71	28.57%	4.42			
111)NOKIA OYJ	86	96.91	1.00	7.00		100.00	40.00%	4.67	5.49M		
112) ROBERT BOSCH GMBH											88.48
113) SAMSUNG ELECTRONICS	78		2.00	8.00		54.55	9.09%	0.83	35.81M		
114) SIEMENS AG-REG	100	97.78	6.00	7.00	50.83	90.00	35.00%	5.17	8.08M	24.00	48.82
(Accounting Adju	stments: Ad	justed for	Abnormal	Items Wh	en Applie	cable)				10) Analy	yze List

### **Environmental Metrics (sample)**

Overview Comp	o Sheets Mar	kets EPS P	review Ow	vnership	Credit Cu	istom 🔅						
Create Template	Social ESG	Com Spe	H&S Met	Environ	Governa	More						
Name 1	RobecoSAM Environ Dim Rnk	Sustainalytics Environ Pctl:D-1	GHG Emissions:Y	GHG Scope 1:Y	GHG Scope 2:Y	GHG Scope 3:Y	Renew Energy:Y	Env Supply Pol:Y	Climate Chg Pol:Y			
Median	82	94.77	2.78M	821.00k	1.69M	15.49M	1.20M	1	1			
100) ALIBABA GROUP HOLDI	21											
101) ALPHABET INC-CL A	75	90.36						1				
102) AMAZON.COM INC	46	35.48						1				
103) APPLE INC	27	95.88	831.09k	54.59k	776.50k	520.50k	2.39M	1	1			
104) FLEX LTD	42	81.44										
105) HITACHI LTD	82	75.26	4 <b>.</b> 72M	2.12M	2.60M	117 <b>.</b> 11M	7.37k	1	1			
106) HUAWEI TECHNOLOGIES												
107) INTEL CORP	62	98.25										
108) INTL BUSINESS MACHI	82	98.19						1				
109)LG ELECTRONICS INC	100											
110) MICROSOFT CORP	88	93.98						1				
111)NOKIA OYJ	86	96.91										
112) Robert Bosch GMBH												
113) Samsung Electronics	96											
114) SIEMENS AG-REG	100	95.56		821.00k		15.49M		1	1			
(Accounting Adjus	(Accounting Adjustments: Adjusted for Abnormal Items When Applicable) 10 Analyze List											

### **Social Metrics (sample)**

Overview Com	p Sheets Mar	rkets EPS	Preview	Ownership	Credit	Custom	¢			
Create Template	Social ESG	Com Spe	H&S Met	. Environ	Goverr	na More	e			
Name 1	RobecoSAM Soc Dim F	Rnk Sustainalytics	Soc Pctl:D-1 H	lealth/Safte Pol:Y	LTIR:Y	Tot Rcrdble Incdnt Rt:Y	Emp CSR Trng:Y	Fatalities Total:Y	Soc Supp Chn Mgmt	Human Rights Pol:Y
Median		67	90.11	1	0.46	0.00	0	5	1.00	1
100) ALIBABA GROUP HOLDI		25							0.00	
101) ALPHABET INC-CL A		48	91.57	1					1.00	1
102) AMAZON.COM INC		30	43.01	1					1.00	1
103) APPLE INC		5	44.33	1			0		1.00	1
104) FLEX LTD		73	87.63							
105) HITACHI LTD		67	56.70	1			1		1.00	1
106) HUAWEI TECHNOLOGIES										
107) INTEL CORP		78	98.25	1						1
108) INTL BUSINESS MACHI		55	96.39	1					1.00	1
109) LG ELECTRONICS INC		100								
110) MICROSOFT CORP		88	95.18	1			0		1.00	1
111) NOKIA OYJ		86	88.66							
112) Robert Bosch GMBH									0.00	
113) SAMSUNG ELECTRONICS		61								
114) SIEMENS AG-REG		92	97.78	1	0.46		0	5	1.00	1
(Accounting Adjus	tments: Adjust	ted for Abno	ormal Item	s When Appli	icable)				10) Ana	lyze List

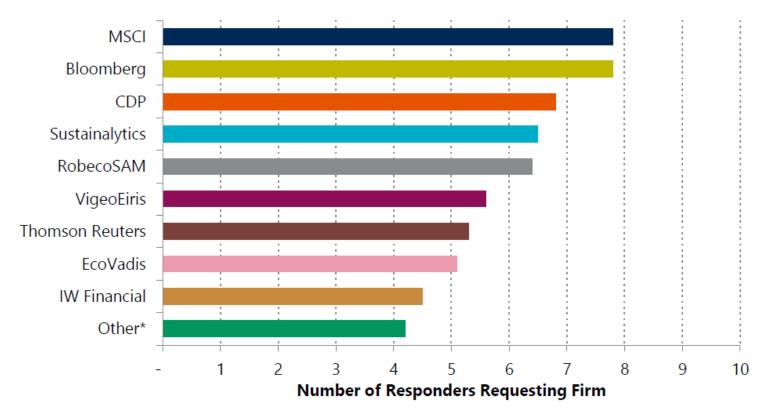
#### **Governance Metrics (sample)**

Overview Com	o Sheets	larkets	EPS Preview	Ownership	Credit Cu	stom 🗘			
Create Template	Governa	Social	ESG Com Spe.	H&S Met.	Environ	More			
Name 1	RobecoSAM Eco	on Dim Su Rnk	stainalytics Gov Pctl:D-1	% Women Mgt:Y	% Women on Bd:Y	% Women Emp:Y	# Feml Execs	Indep Chrprsn	% Indep Directors:Y
Median		68	76.45	27.25	24.04%	30.90	2.00	0.00	88.19
100) ALIBABA GROUP HOLDI		18					6.00	0.00	
101) ALPHABET INC-CL A		32	1.20	25.50	18.18%	30.90	2.00	1.00	54.55
102) AMAZON.COM INC		46	8.60		33.33%		1.00	0.00	88.89
103) APPLE INC		14	49.48	29.00	25.00%	33.00	2.00	1.00	87.50
104) FLEX LTD		76	86.60				0.00	1.00	
105) HITACHI LTD		61	53.61		16.67%		0.00	0.00	66.67
106) HUAWEI TECHNOLOGIES									
107) INTEL CORP		68	92.98		22.22%		0.00	0.00	88.89
108) INTL BUSINESS MACHI		63	72.89		23.08%		3.00	0.00	92.31
109) LG ELECTRONICS INC		100					6.00	0.00	
110) MICROSOFT CORP		97	91.57		28.57%		3.00	1.00	85.71
111)NOKIA OYJ		86	98.97		40.00%		2.00	1.00	100.00
112) Robert Bosch GMBH							0.00		
113) SAMSUNG ELECTRONICS		83			9.09%		59.00	0.00	54.55
114) SIEMENS AG-REG		96	80.00		35.00%	24.00	2.00	1.00	90.00
(Accounting Adjustments: Adjusted for Abnormal Items When Applicable)									

# Corporate Resources

#### **ESG Ratings & Rankings Survey**

## Which organizations would you be most interested in hearing from during a private forum?



\*Other: BlackRock, Calvert, Trucost (S&P), GRI, Investor Groups, Wellington, Vanguard, etc.

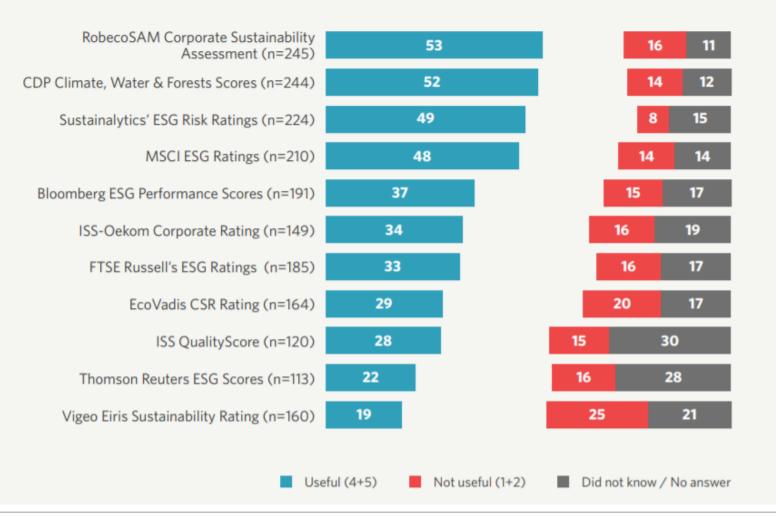
### **ESG** Rate the Raters Results - Quality

- Survey of 319 sustainability professionals in the fall of 2018
- Second report forthcoming in 2019 focused on investor perspectives on ratings
- 2018 Top 5
  - CDP
  - RobecoSAM / DJSI
  - Sustainalytics
  - MSCI
  - Bloomberg



#### **ESG** Rate the Raters Results - Usefulness

2018: ESG ratings usefulness, bars indicate % of respondents selecting each usefulness score



### ESG Analysis

# How do you incorporate company's ESG performance into your analysis? How do you read rater results?

#### Step 1: Understand the ESG Ecosystem

- What does the ESG ratings and rankings ecosystem look like today?
- How companies disclose these things?
- Has the company disclose these things?
- Does company do a report, or try to fill the immediate gaps?

#### Step 2: Mapping & Assessment

- What are the most important (material) ESG issues of the company / industry
- How the company address these material ESG issues (narrative)?
- Has there be any rater that rate or rank the company? What's the score?
- Conduct ESG due diligence process
- Who is looking at the company's score? How important are they to the company value (prioritize)

#### About ERM

#### **Environmental Resources Management (ERM)**

ERM is a leading global provider of environmental, health, safety, risk, social consulting services and sustainability related services. We have more than 5,000 people in over 40 countries and territories working out of more than 160 offices. ERM is committed to providing a service that is consistent, professional and of the highest quality to create value for our clients.

We help companies to deliver innovative solutions for business and selected government clients helping them understand and manage the sustainability challenges that the world is increasingly facing.



40+ countries & territories





#### **ERM Services**

Working together to meet your environmental, health, safety and sustainability needs



Transforming liabilities into opportunities to help our clients maximize the value of their asset portfolio and drive stronger financial and reputational outcomes through proactive management of EHSS issues.



Optimizing business performance by helping our clients derive greater value from their investments in health, safety, and risk management while protecting people, assets, and the environment. **Operational Performance** 



Improving operational performance for organizations around the world through an outcome-driven approach to EHSS, broad understanding of regulations and standards, and expert stakeholder management.



Transforming EHSS data management from an administrative burden into a business advantage through innovative technology, automating processes, and integrating systems.

#### M&A Solutions



**Major Capital Projects** 



Ensuring major capital projects stay on schedule, budget, and scope by providing EHSS insights and expertise throughout the project lifecycle, from planning and design to implementation and ongoing management.

#### Sustainability



Empowering companies to identify, prioritize, and realize EHSS performance and efficiency opportunities when making acquisitions, merging and integrating operations, and divesting assets to increase overall value, accelerate return on investment, and attain strategic goals.

Environmental Compliance

Enabling organizations to realize maximum value from environmental activities and investments by better understanding and meeting compliance obligations in a continually changing regulatory landscape.

Identifying and leveraging opportunities to improve performance and profitability, strengthen reputation and relationships with key stakeholders, and enhance competitive advantage by embedding sustainability across our clients' businesses.



### Thank you

#### Prasit Vaiyavatjamai

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The business of sustainability