

Participants in the forum are reminded of their responsibility to observe anti-trust laws.

The EBA Anti-Trust Policy is available at the EBA website.

https://www.abe-eba.eu/media/azure/production/1352/eba_antitrust_policy_20170602_final_clean.pdf

The forum is an open group, where interested stakeholders can discuss and exchange information on industry-wide topics.

The content of the slides presented and the views expressed in the context of the activities of the forum are those of the respective participants in the forum, and do not represent the views of the Euro Banking Association (EBA).

Open Forum on Digital Transformation

**Examining the various facets of Sustainability and
ESG – a new horizon in Banking and Finance?**

8 March 2022
Digital meeting

Public

Agenda (1/2)

Examining the various facets of Sustainability and ESG – A new horizon in Banking and Finance?

Welcome and opening remarks

Thomas Egner, Euro Banking Association

Setting the scene and housekeeping

Kate Pohl

Examining the various facets of Sustainability and ESG

Dr. Nicole Röttmer, PwC

The *Twin Transition* driven by Payments Data

Harri Rantanen, SEB, and **Carina Johed**, Planethon.io

Panel Discussion 1 – Connecting corporates and banks: Platforms as an enabler for Sustainability and Financial Inclusion

Coffee Break

Fireside Chat: ESG in Banking – Social Responsibility in Banking, founding Brygge

Cornelia Schwertner, Brygge, and **Barbara Buchalik**, Brygge

Agenda (1/2)

Examining the various facets of Sustainability and ESG – A new horizon in Banking and Finance?

Greenwashing vs. data-based performance: Recent Sustainability Challenges and Drivers; Market Insights and Developments
Tanja Reilly, EcoVadis

Lunch Break

Blockchain – Curse or Blessing for Sustainability
Carsten Göbel, Worldline

Fireside Chat: ESG in Banking – Transforming mindsets
Petra Sandner, Helaba and **Tatjana Gravenstein**, ING

Coffee Break

Panel Discussion 2 – Sustainability and ESG – A new horizon in Banking and Finance?

Building a Sustainable Bank – an interview with **Ali Niknam**, bunq

Wrap-up

Thomas Egner

**Secretary General
Euro Banking Association**

Kate Pohl

**Facilitator
Euro Banking Association**

Dr. Nicole Röttmer

**Sustainability Partner
PwC**

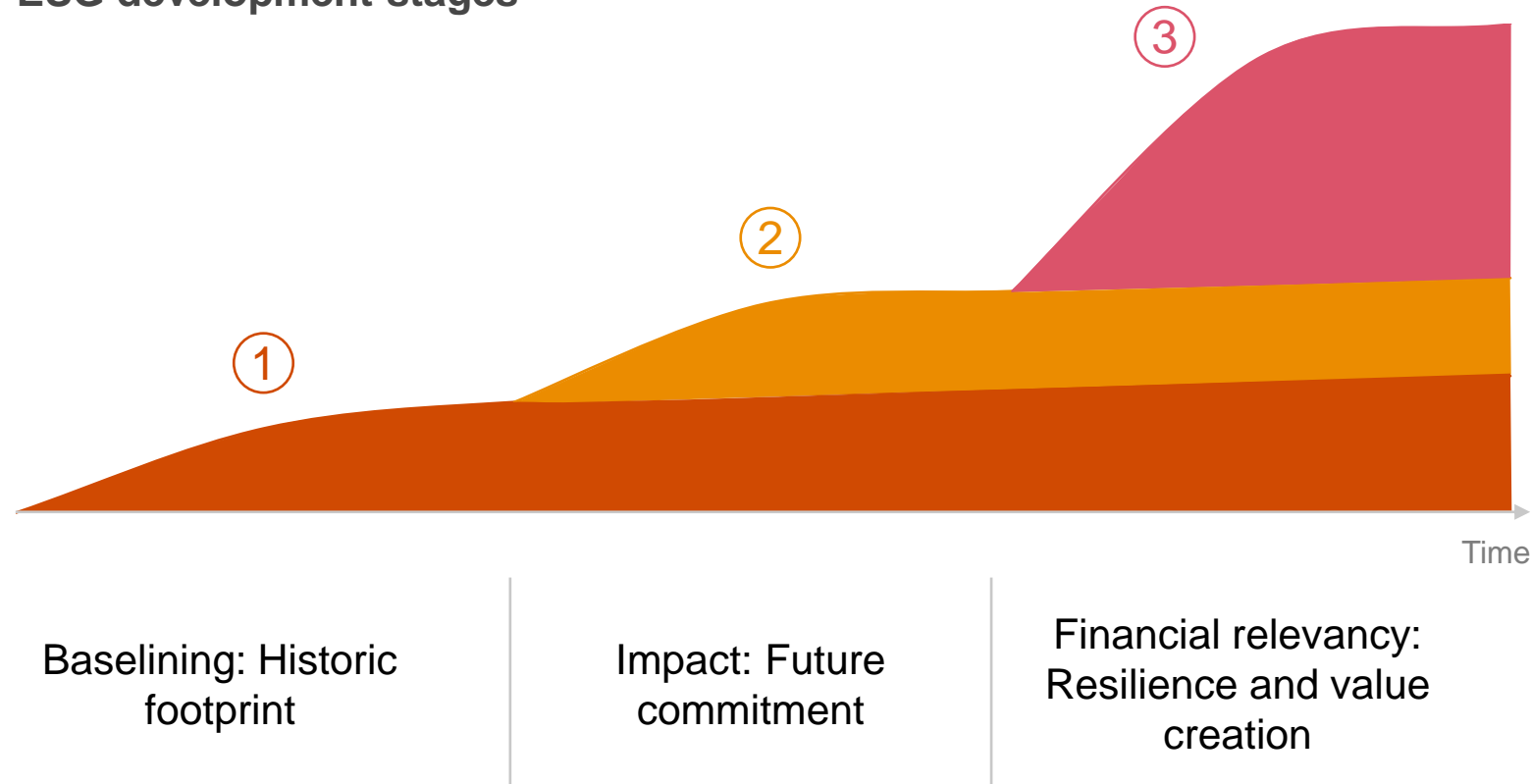
EBA Open Forum on Digital Transformation

**Examining the various facets of Sustainability and ESG –
A new horizon in Banking and Finance?**
March 8, 2022; Dr. Nicole Röttmer



ESG is taking a new form and shape

ESG development stages



Best practices

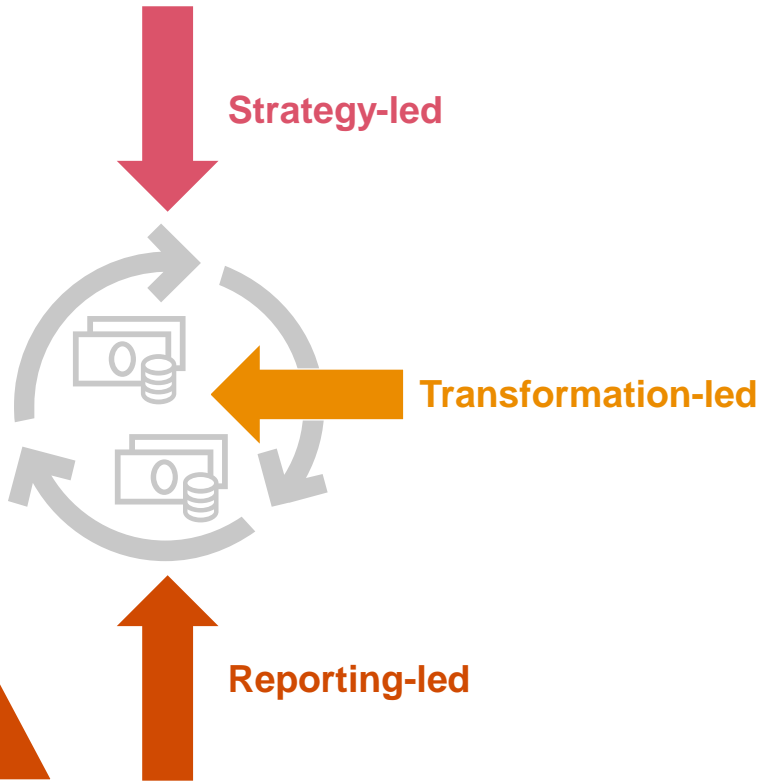
- **Focus** on materiality
- **Think** ESG as part of the standard processes as early as possible
- **Integrate** ESG into cross-organizational decision making

This is changing the sustainability journey

Transformation starter



ESG scope



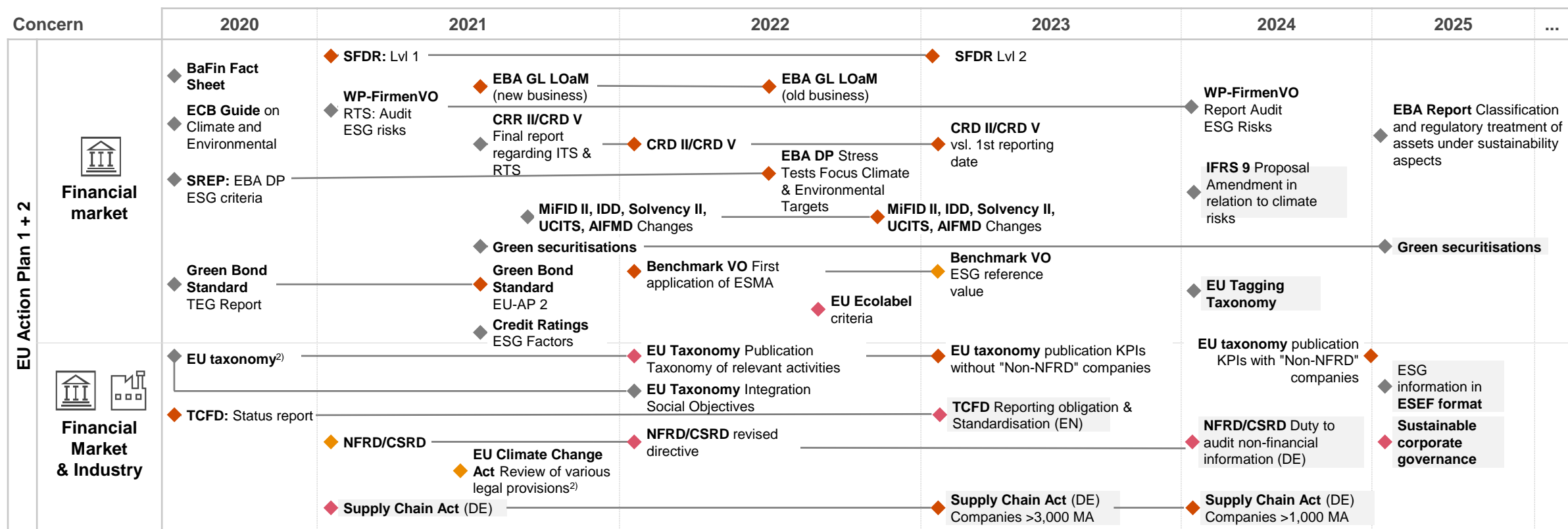
Make the right choices to position you in a sustainable tomorrow

Implement ESG aspects into everyday operations

Define and implement the right non-financial KPIs to manage accordingly

At the same time, regulation is providing further impetus for a full-fledged ESG integration

Status: May 2021



1) The EU Action Plan 2 has not yet been finalised. The publication of the final content of the EU Action Plan 2 is expected 2021 in July. 2) Review of EU ETS, Burden Sharing Regulation, LULUCF, Energy Efficiency Directive, Renewable Energy Sources Act, CO₂ emission standards for passenger cars (Art. 2 para. 4 and Recital 17, EU Climate Change Act).

 National initiative with reference to action plans
 Proposed legislation
 regulatory publications
 Time of application
 Review

... while the market is partially preceding it for climate



The market commits to net-zero decarbonization

Market participants are increasingly committing to decarbonizing their portfolios



More than **two-thirds** of the world's gross domestic product has now committed to achieving net zero emissions by mid-century.



67 signatories
>\$10 trillion market capitalisation



>119 financial service providers in action



>3,800 signatories
>\$120 trillion AuM



>101 signatories in 40 countries
>\$67 trillion Assets, which is 43% of global banking assets



Requirements to disclose climate risks are increasing

The role of climate risk reporting is steadily increasing



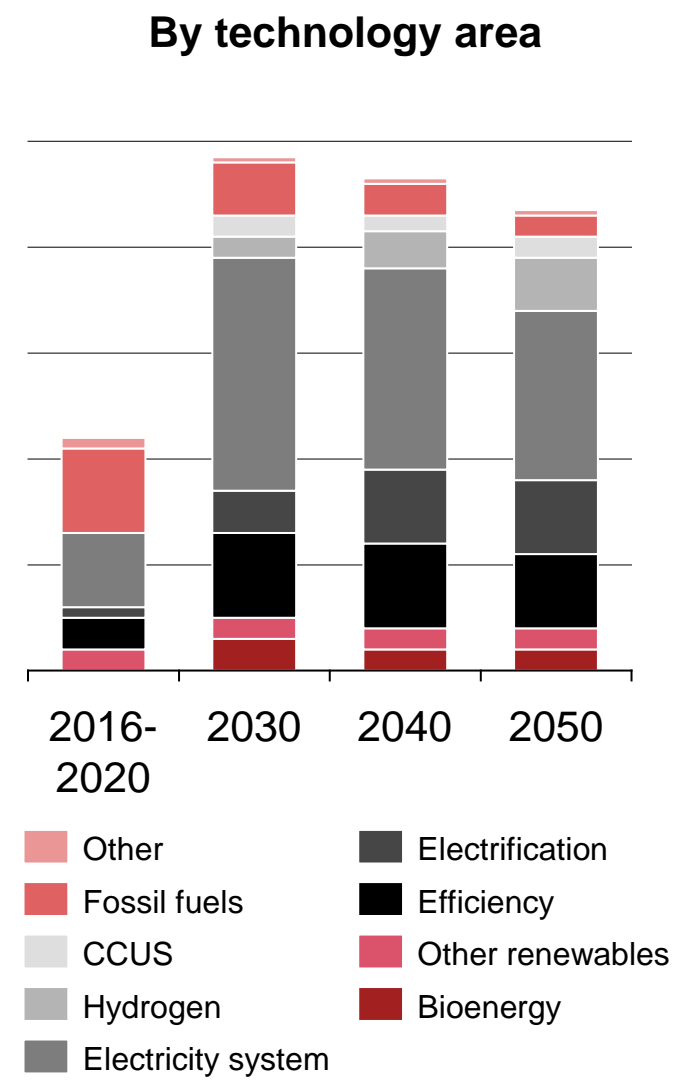
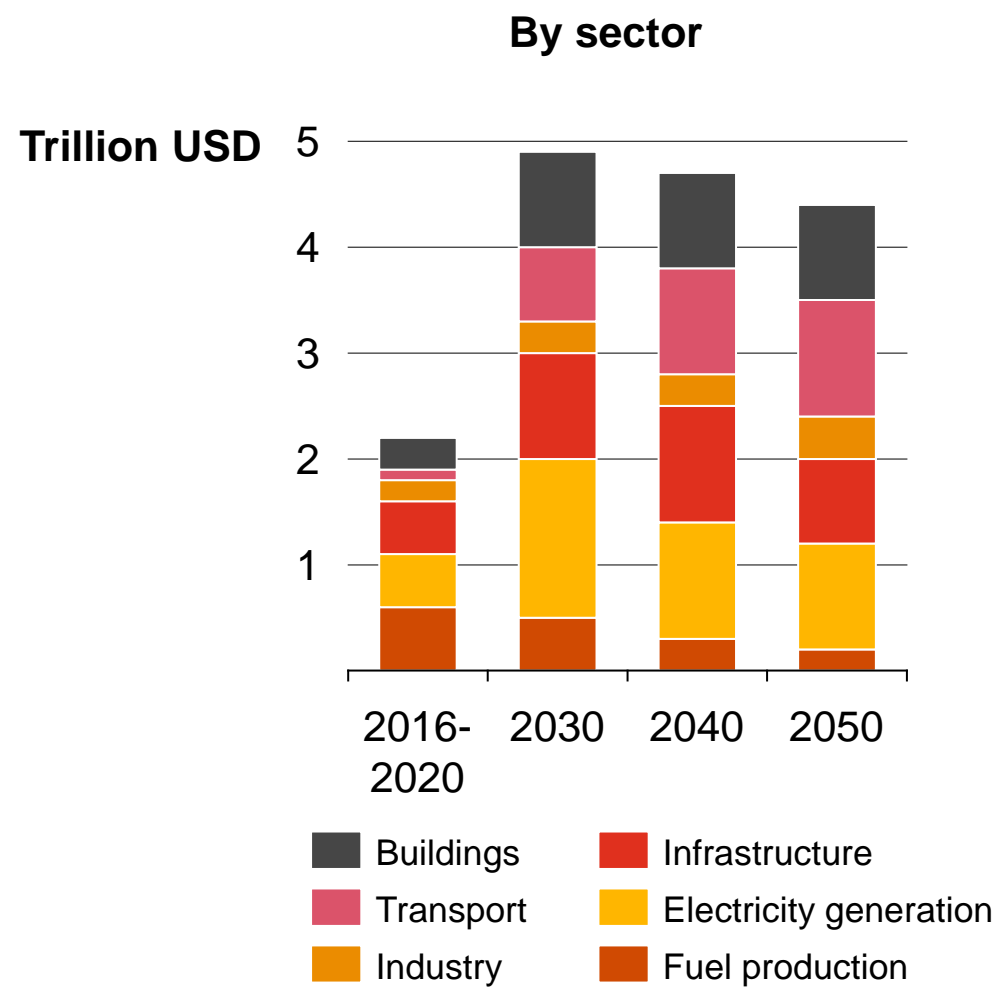
>2,600 signatories
>\$25 trillion market capitalization



BANK OF ENGLAND
PRUDENTIAL REGULATION
AUTHORITY

- The SEC currently develops a mandatory climate risk disclosure rule proposal
- Under the current **IFRS draft**, requirements to **report climate risks** are fairly detailed
- **UK and New Zealand** have introduced **mandatory climate-related disclosures**
- Implementation in the addendum to the non-binding guidelines for **non-financial reporting of the EU-COM**
- **ECB** expects its supervised entities to **disclose climate-related risks and opportunities**

The transition will create a global annual investment requirement of 4,5% of GDP by 2030



PtP Kernmaßnahmen

Die wichtigsten Maßnahmen zur Realisierung der 1,5°C Ziele



Stahl

- Grünstrom für Elektrolichtbogen Anlagen
- H2 Direktreduktion
- Biokohle
- CCUS Retrofit



Ammoniak

- Wasserstoff als Brennstoff
- CCUS Retrofit
- Einsatz von Energieeffizienz Maßnahmen



Gebäude

- Gebäude Isolierungen
- Erneuerbare Wärme
- Erneuerbare Eigenstrom Erzeugung



Automotive

- Elektro Mobilität
- Energieeffizienz
- Erneuerbare in Produktion
- Lieferketten Management



Fossile Brennstoffe

- Zumischung erneuerbarer Brennstoffe
- Einsatz CCS
- Maximierung der Effizienz



Trucks

- BEV Trucks
- Wasserstoff Trucks
- HVO betriebene Trucks



Strom

- Erneuerbare Energien
- Effizienz
- CCUS
- H2



Schifffahrt

- Moderne Motoren
- Alternative Treibstoffe
- Teilweise Elektrifizierung



Luftfahrt

- Moderne Flugzeug Flotte
- Einsatz von Sustainable Aviation Fuels (SAF)



Zement

- Erneuerbare Energieträger
- CCUS Retrofit
- Reduktion des Klinkerfaktors

Financing needs to arise specifically in areas with off-balance sheet financing options



Categories

1

- Energy efficiency improvements
- Minor adjustments to existing production processes

2

- Fundamental technology change, i.e. in production

3

- Infrastructure adjustments
- New technologies
- New business models



Volume & timing

- Volume ~20%
- Doubling relative to today, then consistent till 2050

- Volume ~60%
- Peak in period 2020-2030

- Volume ~20%
- Peak in period 2020-2030



Implications

- No additional financing instruments needed
- On balance sheet for companies

- Potential for alternative financing mechanisms
- Off balance sheet generally possible for companies

- Integrated risk structures needed
- Off balance sheet possible
- Final owner tbd

The SDGs show that we are only at the beginning of the ESG journey


















Comment

- Across all sectors, **environmental issues** - particularly **decarbonisation** and **waste reduction** - **are** ranked as the most urgent and **important ESG issue**.
- In addition, **social issues** such as **Diversity & Fair Rights** and **Health & Safety** are gaining importance across sectors.



The **climate crisis endangers** our **livelihoods** and **threatens freedom, prosperity and security**. (...) In the international systemic competition, it is important to **defend** our values **resolutely** and with democratic partners. (...) It is also important to reduce social tensions in times of rapid change.

September 7, 2021 - Coalition agreement

ESG Dimension	Subject area	Topic	UN SDG	Frequency in the market
E	Climate change	Decarbonisation		19,9%
		Clean energy		6,4%
	Resource scarcity	Biodiversity	 	6,8%
		Water scarcity		2,8%
		Waste prevention		13,0%
S	People and values	Transparency in the supply chain	  	7,8%
		Diversity & Fair Rights		10,0%
		Equitable human ecosystem	 	6,5%
	The future of work	Health & Safety		9,8%
		Social infrastructure		3,8%
G	Corporate responsibility	Corporate governance		4,7%
		Responsible institutions	 	8,5%

Source: Strategy& ESG Impact Assessment Methodology

Thank you.

[pwc.de](https://www.pwc.de)

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Carina Johed

**CTO & Founder
Planethon.io**

Harri Rantanen

**Business Development
SEB**



Twin Transition

Green & Digital Transformation

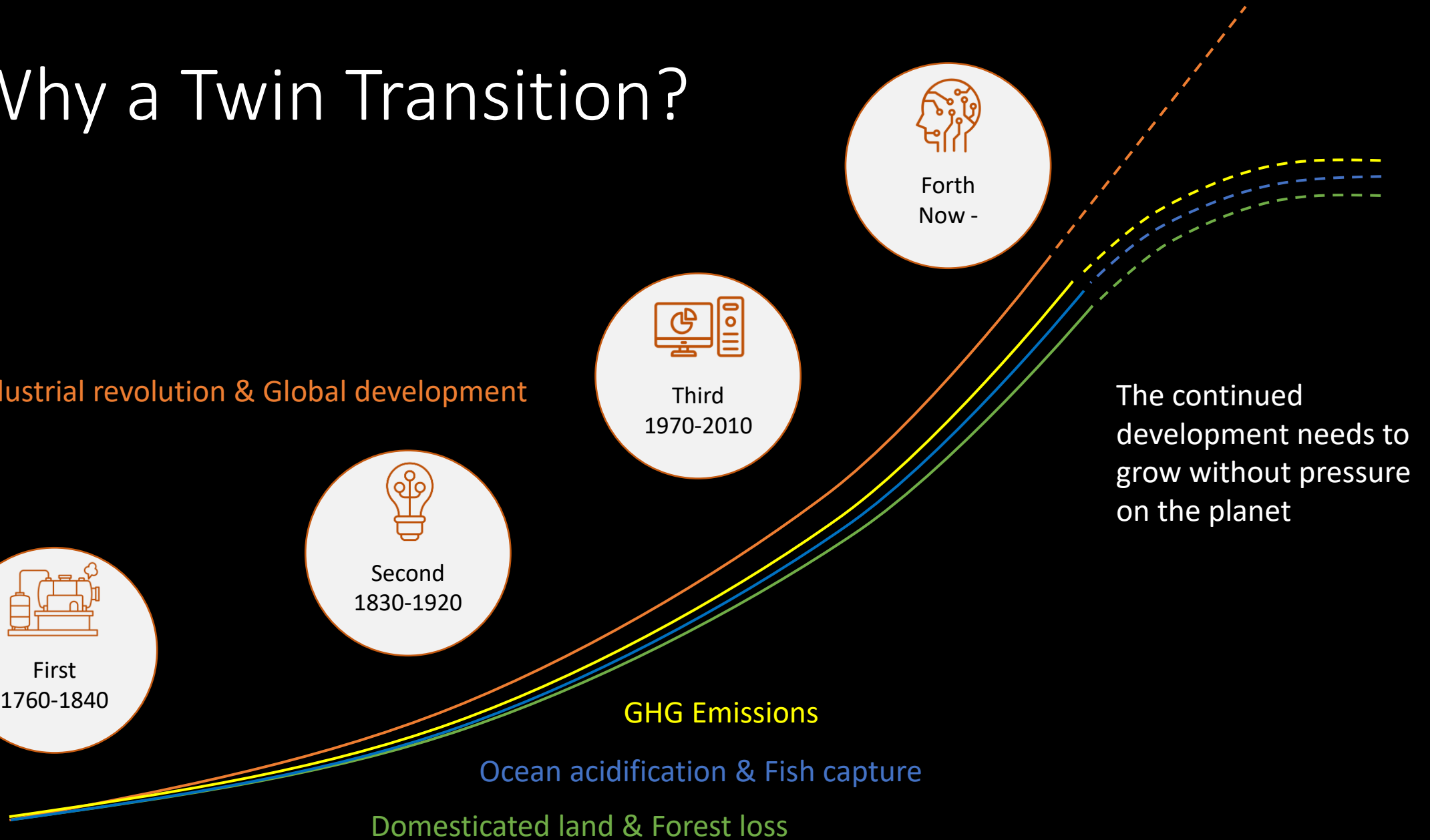
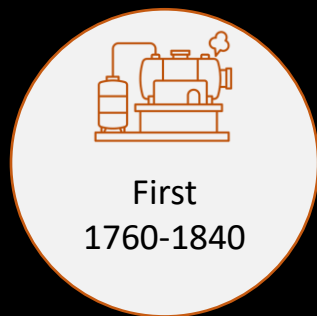
driven by
Payments Data

Carina Johed, Planethon

Harri Rantanen, SEB

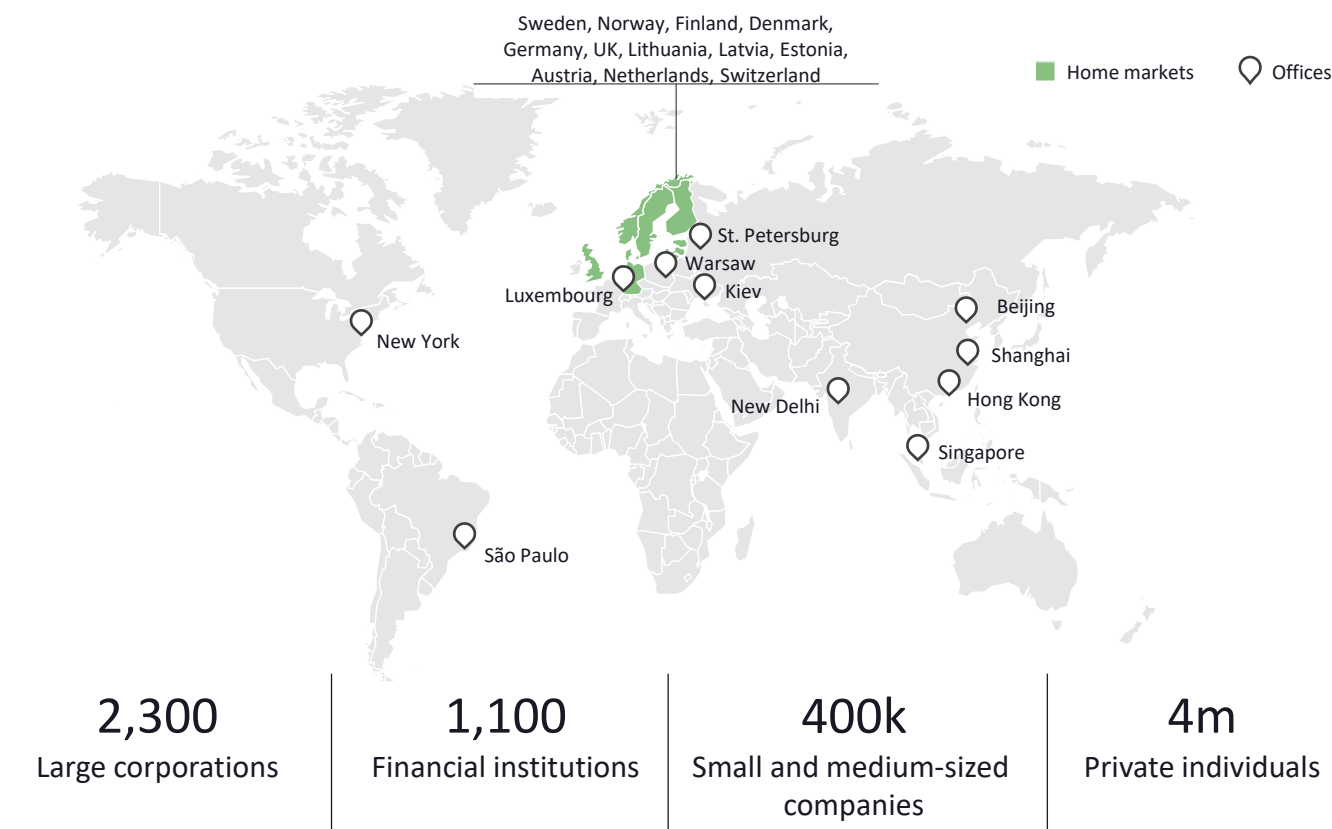
Why a Twin Transition?

Industrial revolution & Global development



SEB

The most international of all Nordic banks

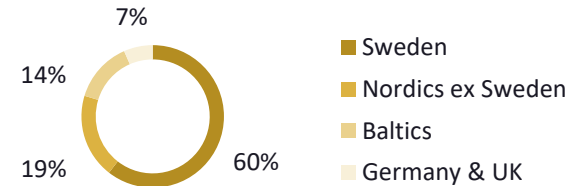


1. Business divisions excluding Other and eliminations, Geography excluding International network and eliminations
2. Swedish residential related includes household mortgages, residential real estate and housing co-ops

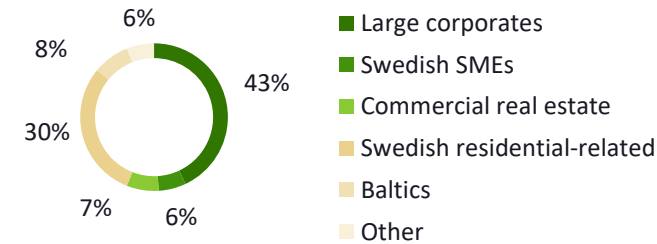
Divisional breakdown: operating profit FY 2020¹



Geographical breakdown: operating profit FY 2020¹



Credit portfolio breakdown: 31 Dec 2020²

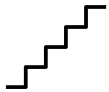


Sustainability as a changing force in society



Focus on sustainability

Innovation and entrepreneurship



The entrepreneurial staircase:
Inspire, Plan, Start, Develop, Grow, Praise

The right support at the right time
of building a business

Sustainable investments

30%

of capital under management in SEB funds

SEK 7bn

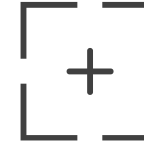
in micro financing funds

Sustainable financing

USD 23bn

We strive to simplify
what's complex

Pioneer within green mortgages



UN's 17 sustainable
development goals in focus



Decent work and economic growth



Industry, innovation and infrastructure

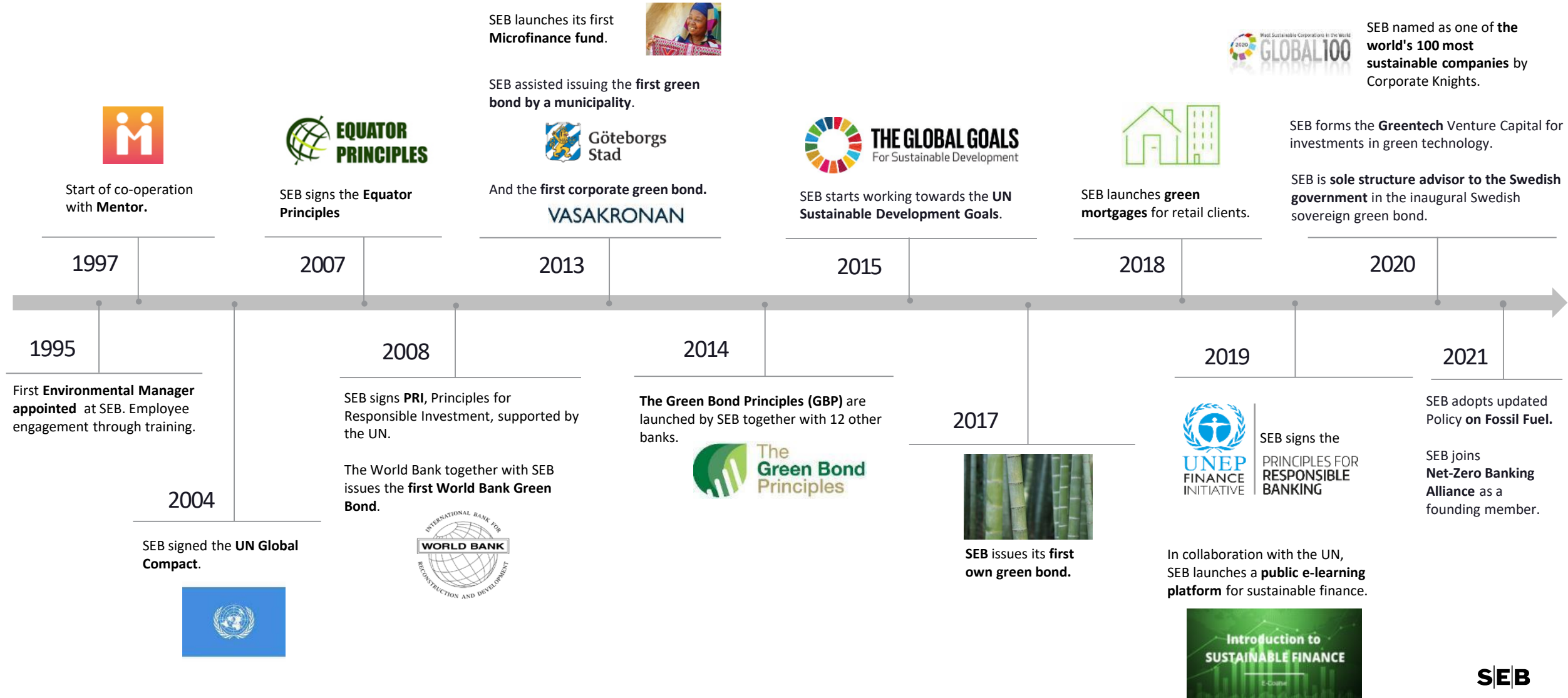


Climate action



Peace, justice and strong institutions

SEB's sustainability milestones



Ekman & Co

Presentation for SEB/Planethon project 2021



Business concept

Ekman is a global sales and marketing organization, strategically aligning buyers and sellers of forest products around the world.

We create additional value by offering deep expertise, strong financial solutions, competitive sourcing and highly committed people, providing outstanding service to our partners.



Ekman at a glance



Incorporated in **1802**

~300 employees

About **40** locations

~4.3 million tons/year



Pulp



Paper & Packaging



Recovered Materials

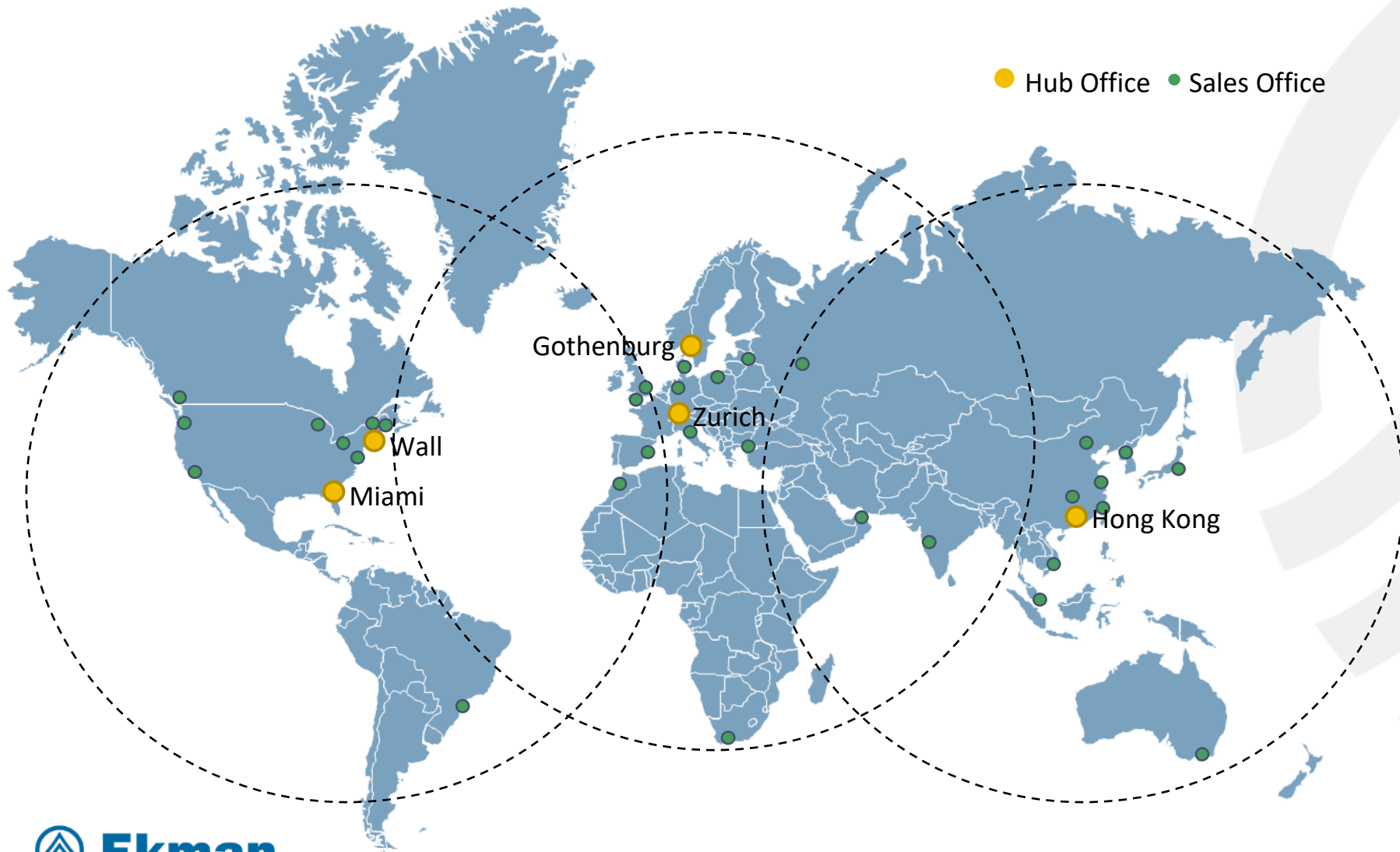


Bioenergy



Innovare

A truly global concept

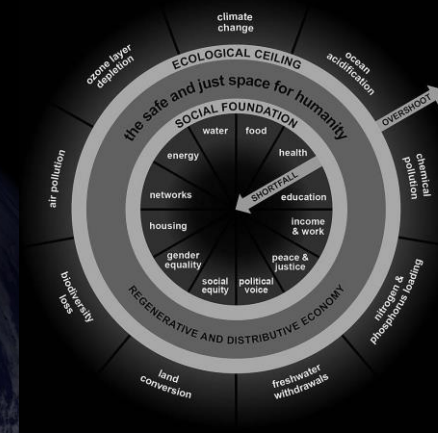




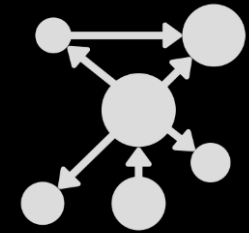
Ekman

BRINGING THE WORLD TO YOUR BUSINESS

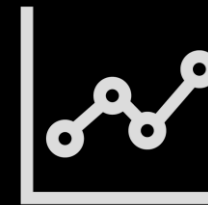
PEOPLE & PLANET CENTRIC



DATA AND AI DRIVEN



IMPACT AND DEVELOPMENT FOCUSED



***WE ARE ON THE
MISSION TOWARDS
A PLANET POSITIVE
FUTURE***

PLANET CENTRIC BUSINESS FRAMEWORK

RESEARCH & ANALYSIS

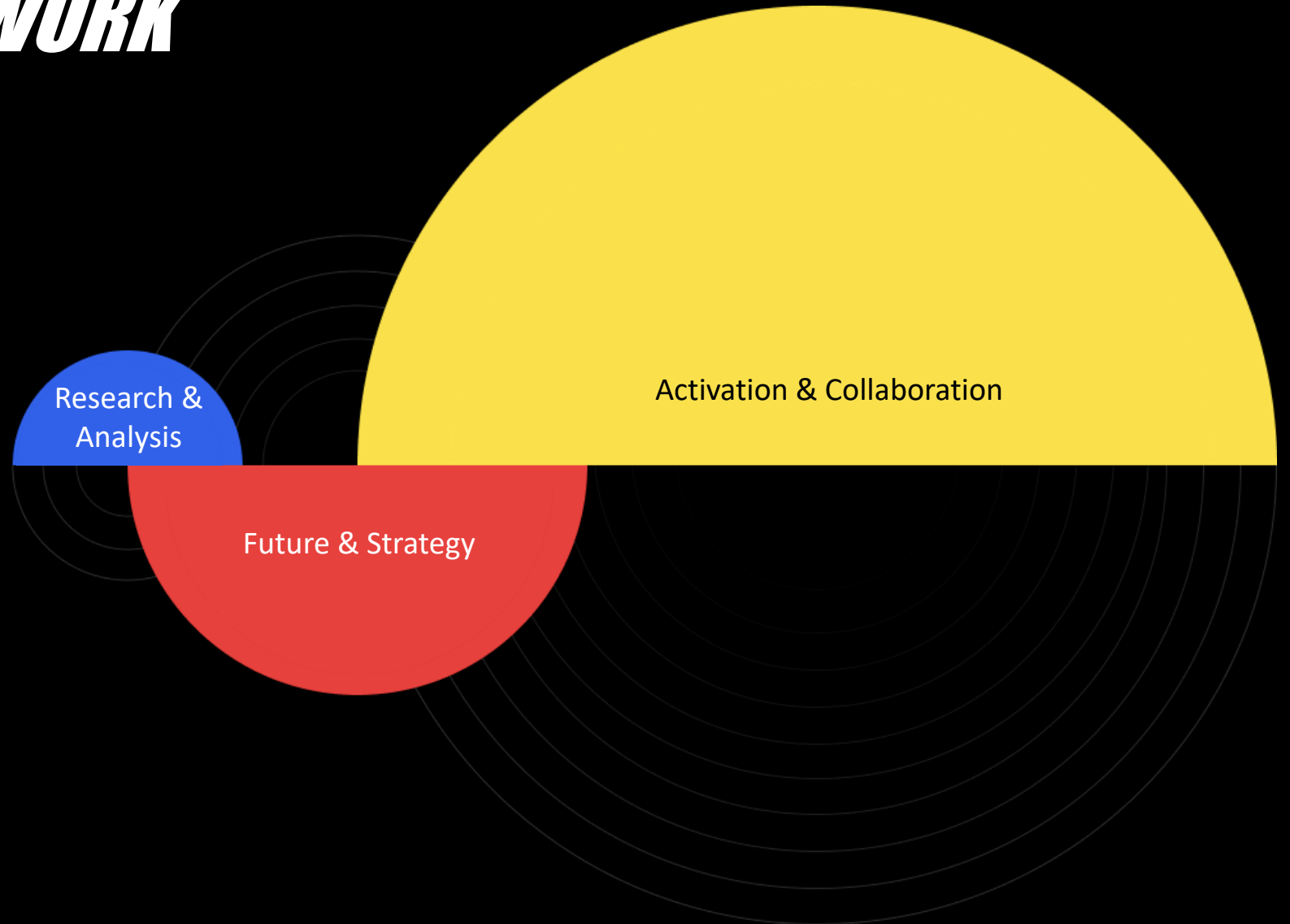
We support your focus on the most impactful problems rooted in science

FUTURE & STRATEGY

We support your understanding of the future and you going in the right direction

ACTIVATION & COLLABORATION

We support you developing impactful momentum, solutions and partnerships



Case – Goal/Result

How might we use payment transaction data to guide sustainable business development?

- Enablement of using B2B transactional banking data as a basement for sustainability analysis
- Great and agile collaboration by the case participants – rapid experiment innovation
- Use of latest information technology and visualisation tools
- Result show that both facts, models and visualised risk and opportunity can be used to guide decision making
- Experiment's insights indicate a good business case to continue towards actual offering



A dark, semi-transparent background image showing a group of business professionals in a meeting. One person is pointing at a tablet screen which displays a circular chart. Other people are visible in the background, some looking at the screen and others in discussion.

Case – Key insights SEB

- ✓ Payment data is only a basement and business trend indicator
 - Need to merge customer data details on counterparties and business transaction
 - Secure corporate data sharing
- ✓ Payments are reporting historical business facts
 - Need to analyse Trade Finance transactions and even ability to predict ESG impacts with easy simulation
- ✓ Banks' role in sustainable transactions' analysis for global large corporate customers
 - Multibanking data sharing and standards on ESG data reporting
 - EU taxonomy, global product codes, carbon accounting etc.



Case – Key insights Planethon

- ✓ Use of broad sustainability data at the heart of companies to assess risk and opportunities for business development
 - Doughnut Economics and moving beyond proprietary ESG reporting
- ✓ Ability to apply latest technology to guide decision making
 - From manual research to scalable digital support in sustainable development
 - Use of connected data and algorithms to understand full impact on a planetary scale
- ✓ It is possible to act as a frontrunner to aid sustainable decisions today
 - Brave partner in SEB and Ekman to start experimenting without having all standards in place
 - Use of a rapid innovation process is key

Contacts

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Harri Rantanen, SEB

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Panel Discussion

Coffee Break

11:05 – 11:20 CET

During coffee break, do not “leave the meeting” i.e. stay connected while muting your sound and turning off your camera

Barbara Buchalik

**Founder, COO and
Legal Counsel
Brygge**

Cornelia Schwertner

**Founder & CEO
Brygge**

Tanja Reilly


**Senior Business Development Manager DACH
EcoVadis**



ecovadis

Data based on
Performance vs Greenwashing

EBA Open Forum 8th March



Sustainability Drivers and Challenges

Multiple drivers are converging

Growing ESG concern

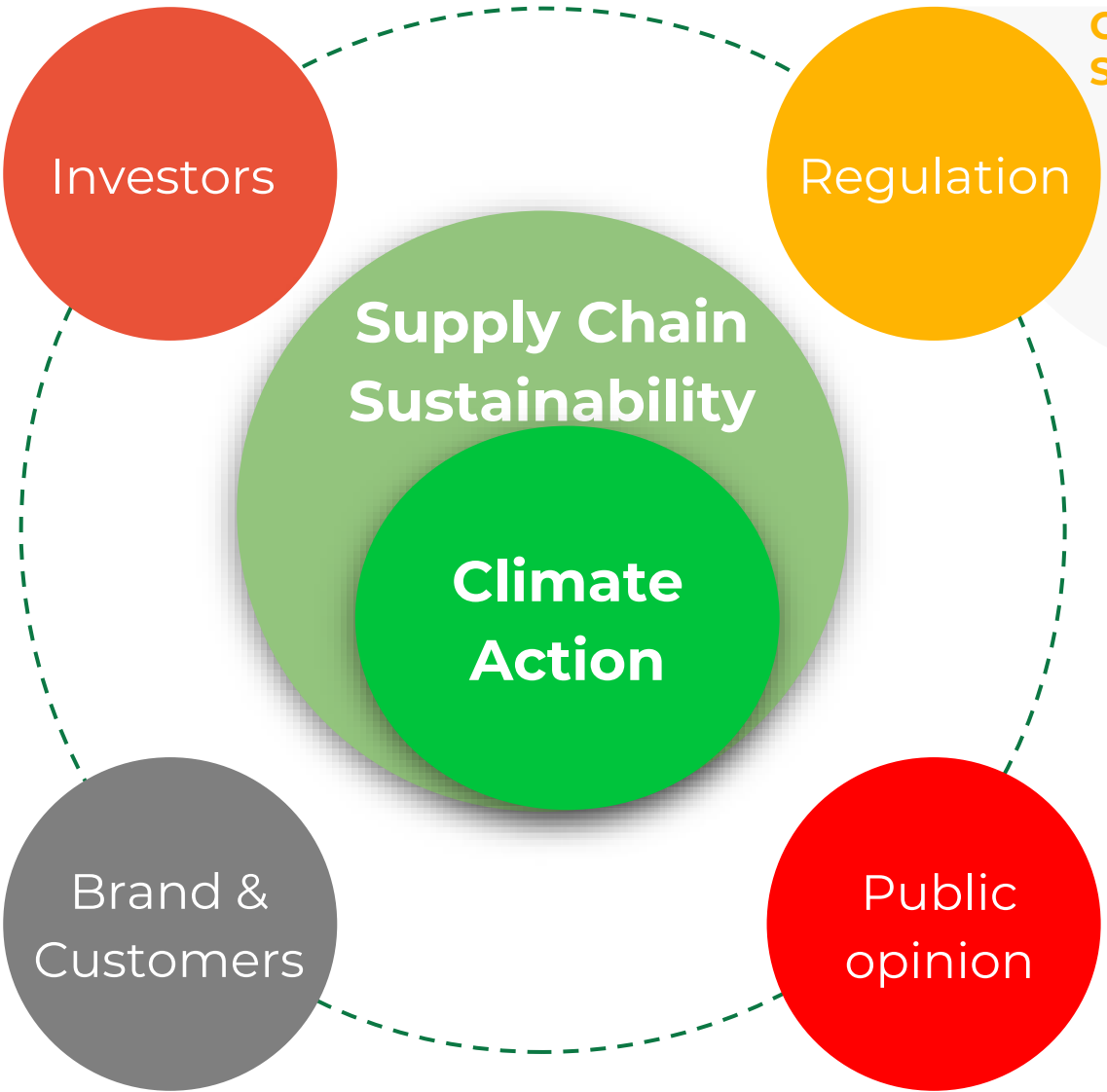


Consumers demand action on climate change – and it's time for retailers to listen

The New York Times

The Alarming Human Toll of Cheap Stuff 'Made in China'

Pressure and opportunities from downstream



EU Due Diligence & Proposed Carbon Border Tax, Modern Slavery Acts



Global Climate Strikes & Social Movements

Use for ESG Ratings in the finance sector

Helping Companies Improve

Sustainable Supply Chain Finance



ESG linked loans / Improvement Loans



KYC Process



ESG for Emerging Capital Markets



New Sustainable Finance Offerings



ESG for Private Equity & Private Debt & Capital Call Facility

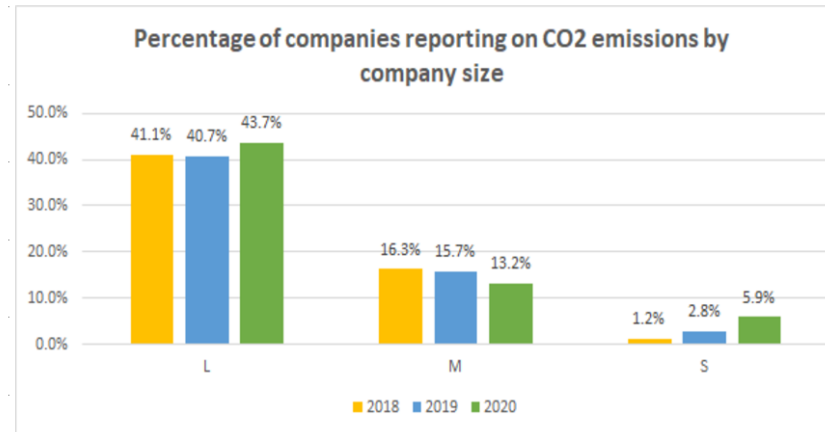


Diligence Services

Co2 Reduction – biggest challenge – missing Scope 3 Data

“70% of the products that we sell are produced by our suppliers, so it’s real teamwork. It’s not only about sustainability, carbon footprint, it starts with quality... But, very important for us, 90% of our carbon footprint is with our suppliers, so we really want them to be part of the journey.”

Jean-Pascal Tricoire,
Chief Executive Officer, Schneider Electric



Under 15% of SMEs report on emissions, yet SMEs account for up to 70% of global supply chains

Some main challenges for the financial sector



Data availability : Quality, Granularity, Comparability and Standardization

SME & Private Customer: lack of resources, expertise and incentives

Sustainability Knowledge of Partner Manager

The background image shows a group of people in a professional setting. One person in the center is holding a white smartphone, while another to their right holds a tablet. In the foreground, a laptop keyboard is visible. The image is overlaid with several dark, semi-transparent geometric shapes, including a large triangle on the left and a large trapezoid on the right, which frame the text.

ecovadis

Insights and Developments
Understand the Methodology

A Robust Methodology: 21 ESG Criteria Covered

ENVIRONMENT	LABOR & HUMAN RIGHTS	ETHICS	SUSTAINABLE PROCUREMENT
Policies - Actions - Results			
<ul style="list-style-type: none">• Energy Consumption & GHGs• Water• Biodiversity• Local & Accidental Pollution• Materials, Chemicals, & Waste• Product Use• Product End-of-Life• Customer Health & Safety• Environmental Services & Advocacy	<ul style="list-style-type: none">• Employee Health & Safety• Working Conditions• Social Dialogue• Career Management & Training• Child Labor, Forced Labor & Human Trafficking• Diversity, Discrimination & Harassment• External Stakeholder Human Rights	<ul style="list-style-type: none">• Corruption• Anticompetitive Practices• Responsible Information Management	<ul style="list-style-type: none">• Company Environmental Practices• Company Social Practices



NO – one Size fit's it all Ansatz ! Activation of criteria for different sectors

Transportation on the road



ENVIRONMENT30%	LABOR & HUMAN RIGHTS40%	ETHICS10%	SUSTAINABLE PROCUREMENT20%
<ul style="list-style-type: none">• Energy Consumption & GHGs• Water• Biodiversity• Local & Accidental Pollution• Materials, Chemicals, & Waste• Product Use• Product End-of-Life• Customer Health & Safety• Environmental Services & Advocacy	<ul style="list-style-type: none">• Employee Health & Safety• Working Conditions• Social Dialogue• Career Management & Training• Child Labor, Forced Labor & Human Trafficking• Diversity, Discrimination & Harassment• External Stakeholder Human Rights	<ul style="list-style-type: none">• Corruption• Anticompetitive Practices• Responsible Information Management	<ul style="list-style-type: none">• Supplier Environmental Practices• Supplier Social Practices

Consulting Service



ENVIRONMENT12.5%	LABOR & HUMAN RIGHTS50%	ETHICS25%	SUSTAINABLE PROCUREMENT12.5%
<ul style="list-style-type: none">• Energy Consumption & GHGs• Water• Biodiversity• Local & Accidental Pollution• Materials, Chemicals, & Waste• Product Use• Product End-of-Life• Customer Health & Safety• Environmental Services & Advocacy	<ul style="list-style-type: none">• Employee Health & Safety• Working Conditions• Social Dialogue• Career Management & Training• Child Labor, Forced Labor & Human Trafficking• Diversity, Discrimination & Harassment• External Stakeholder Human Rights	<ul style="list-style-type: none">• Corruption• Anticompetitive Practices• Responsible Information Management	<ul style="list-style-type: none">• Supplier Environmental Practices• Supplier Social Practices

360 Watch: More than 100,000 Sources Used

ADMINISTRATION

- European Economic and Social Committee (Europe)
- European Environment Agency (Europe)
- Conseil de la Concurrence (France)
- Competition Commission (UK)
- Environmental Protection Agency (USA)
- Food and Drug Administration (USA)

CSR NETWORK

- AccountAbility (International)
- Instituto Ethos de Empresas e Responsabilidade Social (Brazil)
- Business for Social Responsibility (International)
- CSR Europe (International)
- World Business Council for Sustainable Development (International)
- Business Social Compliance Initiative (International)
- Business In The Community (UK)

INTERNATIONAL ORGANIZATION

- European Court of Human Rights
- Eco-Label Européen
- Global Compact
- International Labor Organization
- United Nations Environment Program
- World Bank
- Extractive Industries Transparency Initiative...

NGOs

- China Labor Watch (China)
- Human Rights In China (China)
- Greenpeace (International)
- WWF (International)
- Movimento Difesa del Cittadino (Italy)
- Friends of the Earth Middle East (Middle East)
- Milieudefensie (Netherlands)
- Silicon Valley Toxics Coalition (USA)

TRADE UNIONS

Major Trade Unions in: Algeria America Latina
Argentina Australia Belgium Canada Ecuador
Europe France Germany India Ireland Italy Japan
Mexico North America Peru Portugal Scotland Spain
Switzerland United Kingdom USA.



360° Watch Findings








COMPLIANCE DATABASE

Systematic screening of suppliers against compliance database (PEPs, sanctions, etc.)

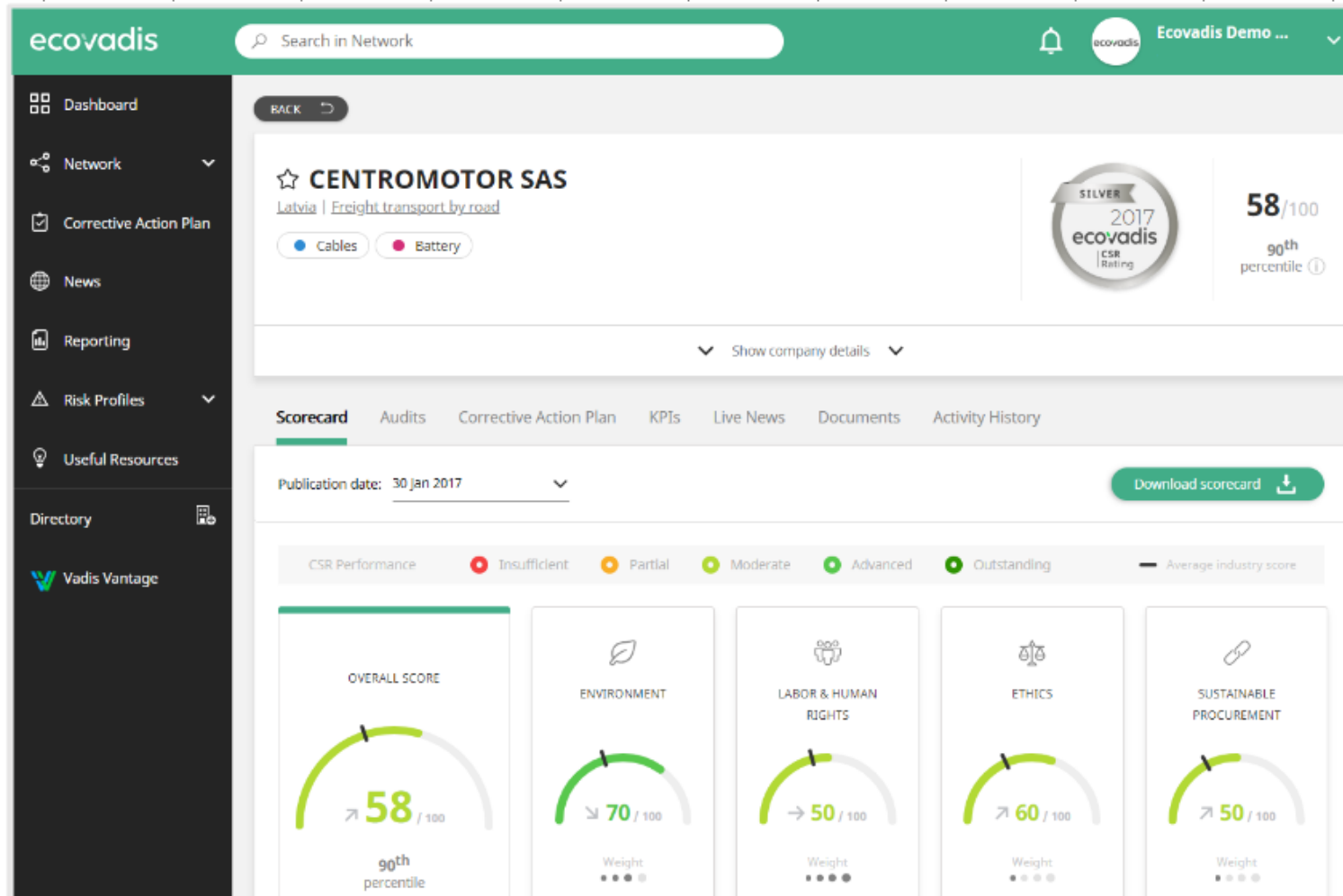
SPECIALIZED PRESS

- China CSR Map (China)
- Novethic (France)
- Corpwatch (International)
- OneWorld network (International)
- Illegal Logging (UK)
- Lawyers & Settlements (USA)

Understanding the Scoring Scale

		CSR PERFORMANCE	LIKELY OUTCOME	
<div> <div>Innovation</div> <div>Risk</div> </div>	85 - 100	OUTSTANDING <ul style="list-style-type: none"> Structured and proactive CSR approach Policies and tangible actions on all topics Comprehensive CSR Reporting on actions & KPIs Innovative practices and external recognition 	 High Opportunity	Company has best-in-class CSR practices which present major opportunities for their customers regarding product/service innovation, market differentiation, creating shared value, etc.
	65 - 84	ADVANCED <ul style="list-style-type: none"> Structured and proactive CSR approach Policies and tangible actions on major topics with Significant CSR Reporting on actions & KPIs 	 Medium Opportunity	Company has an advanced CSR management system which could yield positive business outcomes in terms of cost reduction, productivity improvements, efficiency gains, etc.
	45 - 64	CONFIRMED <ul style="list-style-type: none"> Structured and proactive CSR approach Policies and tangible actions on major topics Basic reporting on actions or KPIs 	 Engaged	Company is engaged in major CSR topics; therefore risks are limited. Company embraces continuous performance improvements on CSR and should be considered for a long-term business relationship .
	25 - 44	PARTIAL <ul style="list-style-type: none"> No structured CSR approach Few tangible actions on selected topics Partial certification or possible products with eco-labels 	 Medium Risk	Company has partial involvement in CSR, which could present medium risk for customers. Improvement areas identified should be addressed to encourage evolution of performance.
	0 - 24	NONE <ul style="list-style-type: none"> No engagements or tangible actions regarding CSR Evidence in certain cases of misconduct (e.g. pollution, corruption) 	 High Risk	Company lacks engagement on CSR which could present high risk for their customers with regards to regulatory compliance, impact on reputation, supply disruption , etc.

Actionable Scorecards

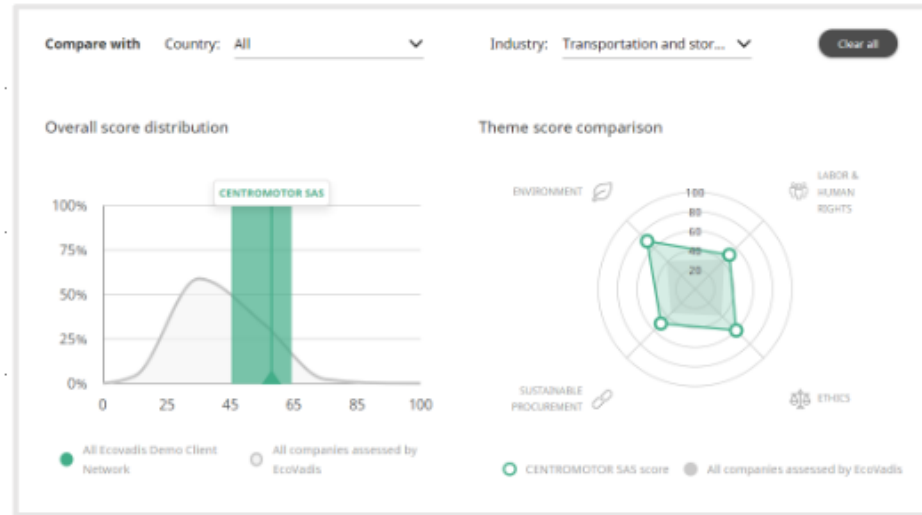


Company info, tags, alerts and medals

Overall score, theme score and weights

Strengths and Improvements for Performance Collaboration

Benchmark
against peers



Collaboratively manage corrective
actions / improvement plans

Scorecard Audits **Corrective Action Plan** KPIs Live News Documents Activity History

Based on Scorecard Based on Audits Export

Corrective actions (56)

Priority	Theme	Indicator	Corrective actions	Requested by my company	Due/Solved	Status	EcoVadis Monitoring
High	Results	No reporting on ethics L...	Yes	1 Feb 2015	Overdue	N/A	
Medium	Results	Basic reporting on labor...	Yes	Not specified	In progress	N/A	
Low	Policies	No quantitative target o...	Yes	Not specified	In progress	N/A	

Strengths and Improvement Areas Request Improvement

Environment

Strengths (20) Improvement Areas (3) 360° Watch Findings (1)

Policies

Priority Improvement Areas

Medium No supporting documentation or only basic policy on some relevant issues [i.e. sustainable consumption] Corrective action in progress

Low No quantitative target on environmental issues Corrective action in progress

Results

Priority Improvement Areas

High Basic reporting on environmental issues Corrective action in progress

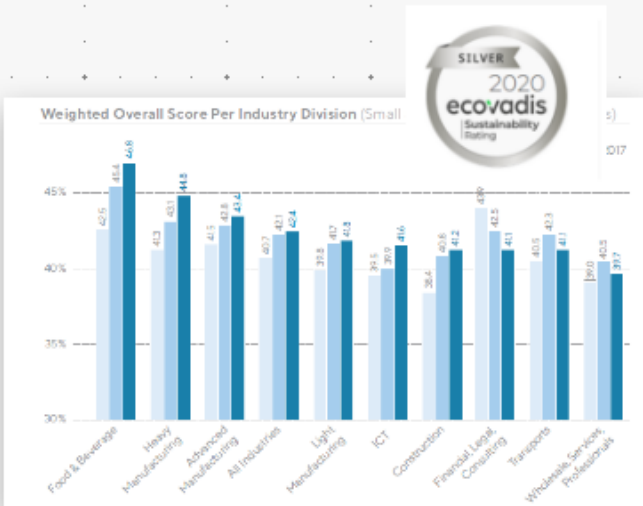
Identify strengths and
improvement areas

How to use ESG ratings for financial decisions?

1. Absolute performance thresholds



2. Relative Performance & Benchmarks



3. Improvement Measurement

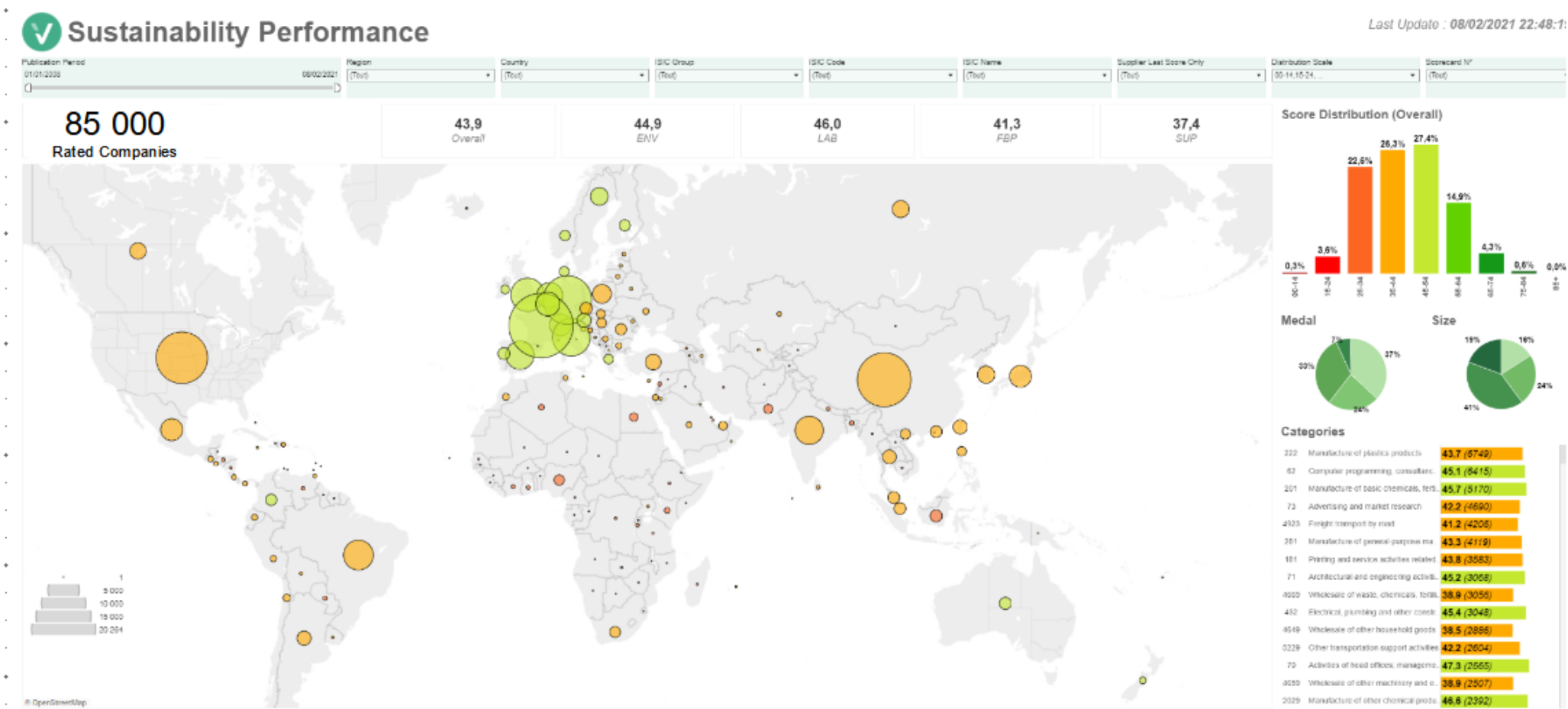


The background image shows a group of people in a professional setting. One person in the center is holding a white smartphone, while another to their right holds a tablet. In the foreground, a laptop keyboard is visible. The image is partially covered by a dark, semi-transparent geometric overlay consisting of several overlapping shapes, including a large triangle on the left and a smaller one in the center. The overall lighting is warm, with a bright light source on the left creating a lens flare effect.

ecovadis

Insights and Developments
Data of the EcoVadis Network

Insights from Global Supply Chain Ratings, which covers the period **2016-2020** and is based on data derived from over 72,000 ratings conducted on more than 46,000 companies

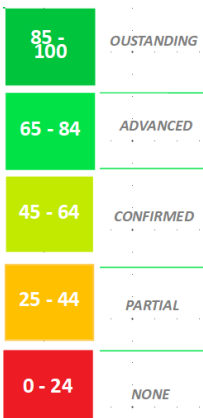


85,000
companies rated...

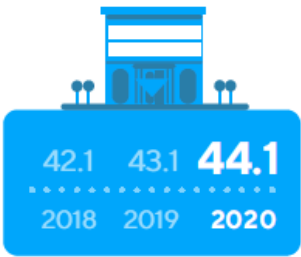
in 160 countries... in 200+ industries

Sustainability Performance comparison by Size & Theme

Key Global Scores at a Glance



World Large Companies



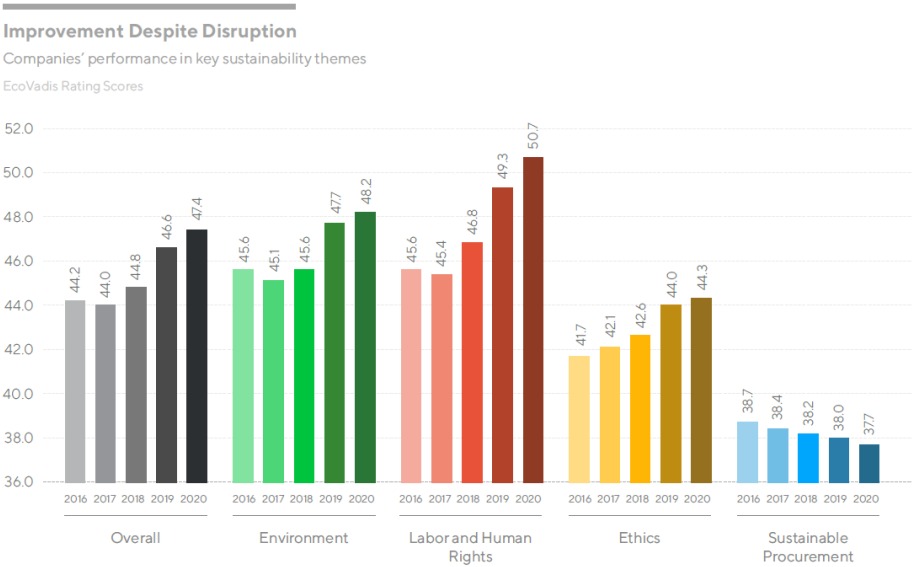
World SMEs



World Labor and Human Rights



World Sustainable Procurement

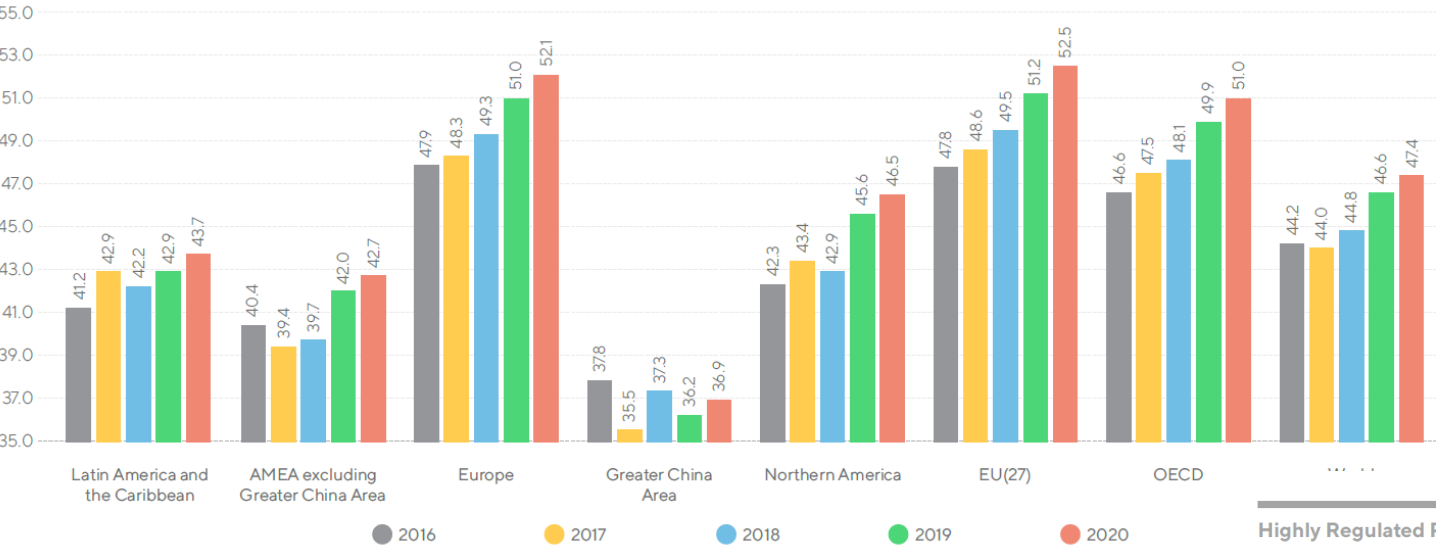


Sustainability Performance Across Regions & Sectors

The Geography of Sustainability

Rated company performance per region

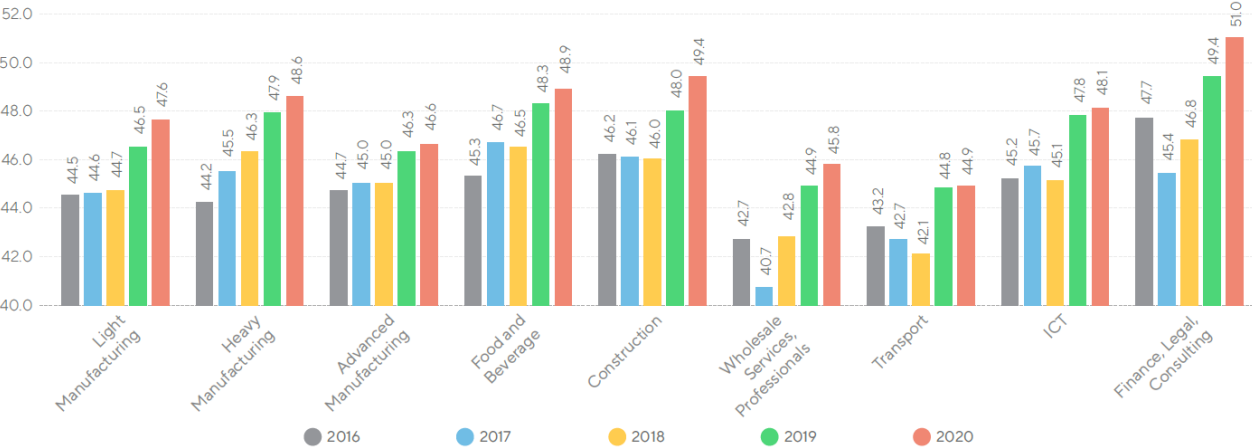
EcoVadis Rating Scores



Highly Regulated Performers

Rated company sustainability performance per industry

EcoVadis Rating Score



Understand the Sector - Example - Freight Transport by road

Sustainability KPIs Overview

KPI	All companies rated by EcoVadis in this industry
Actions on energy consumption & GHGs	38%
Active whistleblowing procedure in place	16%
Audit or assessment of suppliers on CSR issues	10%
Carbon disclosure project (CDP) respondent	1%
Global Compact Signatory	2%
ISO 14001 certified (at least one operational site)	16%

No evidence of actions on employee health and safety issues	32%
No evidence of actions on working conditions	50%
No evidence of supplier CSR risk analysis and/or supplier CSR assessments	64%
OHSAS 18001/ISO 45001 certification or equivalent (at least one operational site)	9%
Part of the Science Based Targets Initiative	0%
Policy on corruption	31%
Policy on sustainable procurement issues	9%
Reporting on CO2 emissions	10%

Understand the Sector - Manufacture of cement, lime and plaster

Sustainability KPIs Overview	
KPI	All companies rated by EcoVadis in this industry
Actions on energy consumption & GHGs	52%
Actions to Prevent Discrimination and/or Harassment	20%
Actions to Promote Diversity	8%
Actions to Remediate Discrimination and/or Harassment	23%
Active whistleblowing procedure in place	38%
At least one target set on GHG emissions	2%
Audit or assessment of suppliers on CSR issues	38%

Carbon disclosure project (CDP) respondent	6%
Collective agreement on diversity, discrimination, and/or harassment	5%
Company subject to controversies regarding ethics issues	5%
GHG emissions report has been verified by a third party	0%
GHG emissions report is publicly available	1%
GHG monitoring system in place	2%
Global Compact Signatory	14%
ISO 14001 certified (at least one operational site)	50%



IT ALL ABOUT IMPACT

Since 2016³

Environment



368

companies have started producing renewable energy (e.g. solar or wind energy) for their own use.



835

companies have started sourcing energy from renewable energy sources (e.g. solar or wind energy) as part of their energy mix.



957

companies have implemented energy management training programs for their employees.



1,591

companies have started providing environmental protection training to their employees (covering topics like water, biodiversity, etc.).



246

companies have implemented programs to reuse or recycle materials.

Social



1,967

companies have implemented health and safety training programs for their employees.



1,578

companies have started providing personal protective equipment to their employees.



806

companies have provided childcare services (including, for example, allowances or on-site childcare facilities).



544

companies have implemented wage equality programs (including, for example, wage gap audits).



1,543

have implemented diversity training for their employees.

Tanja Reilly

Email: treilly@ecovadis.com

Mobile: +49 176 823 551 98

Lunch Break

12:30 – 13:30 CET

During lunch break, do not “leave the meeting” i.e. stay connected while muting your sound and turning off your camera

Kindly reconnect on time for the afternoon sessions

Carsten Göbel

**Business Development
Worldline**



Blockchain – Curse or Blessing for Sustainability?

EBA Open Forum
March 8th 2022

The growth of cryptocurrencies

“The number of global crypto users reached
106 million in January 2021”

crypto.com

“Paypal accepts Bitcoin”

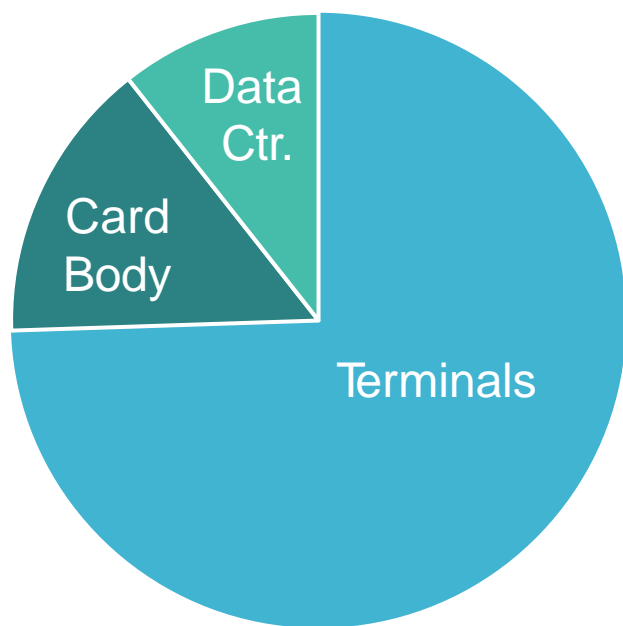
April 2021

“Bitcoin uses more energy like many countries”

NYTimes Sep 2021

Bitcoin has an enormous carbon footprint

Debit Card tx



3,78 g CO₂e

Bitcoin tx

402 kg CO₂e

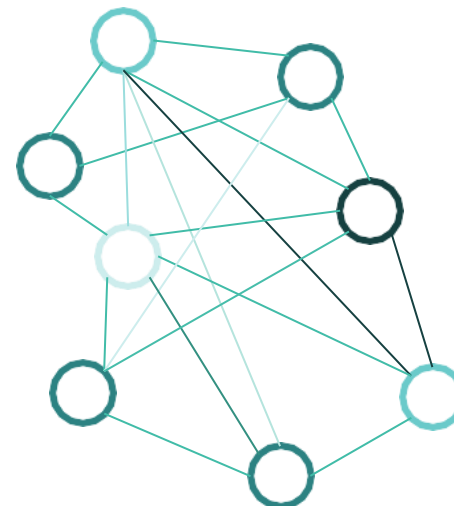
...but be careful comparing apples with pears!

Source: DNB 2017 and 2021

The issue about creating trust



Efficiency
by scaling
(trust the instance)



10 Minutes
7 tx per second
(trust the network)

Are there improvements on the way?

Bitcoin and Lightning



- Separate payment channel between nodes
- Bitcoin network serves as trust instance only

Ethereum 2.0



Proof of Work
(PoW)

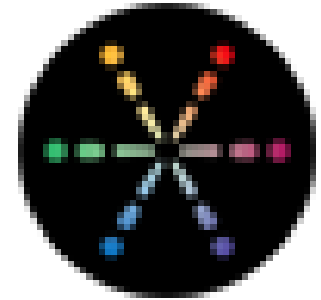
Create trust
through processing
power



Proof of Stake
(PoS)

Create trust
through financial
involvement

Public Blockchain versus Private Blockchain



permissionless

permissioned

A broader look at Blockchain and Sustainable Finance

Some reasons why to use blockchain:

- Resilience, avoid a single point of failure
- Efficiency, easy integration and participation
- Time-to-market, many blockchains for many purposes available already
- Data Transparency/ Shared Data
- Open Source

THE situation:

Many parties want to create an ecosystem, where trust is not given and single dominance should be avoided

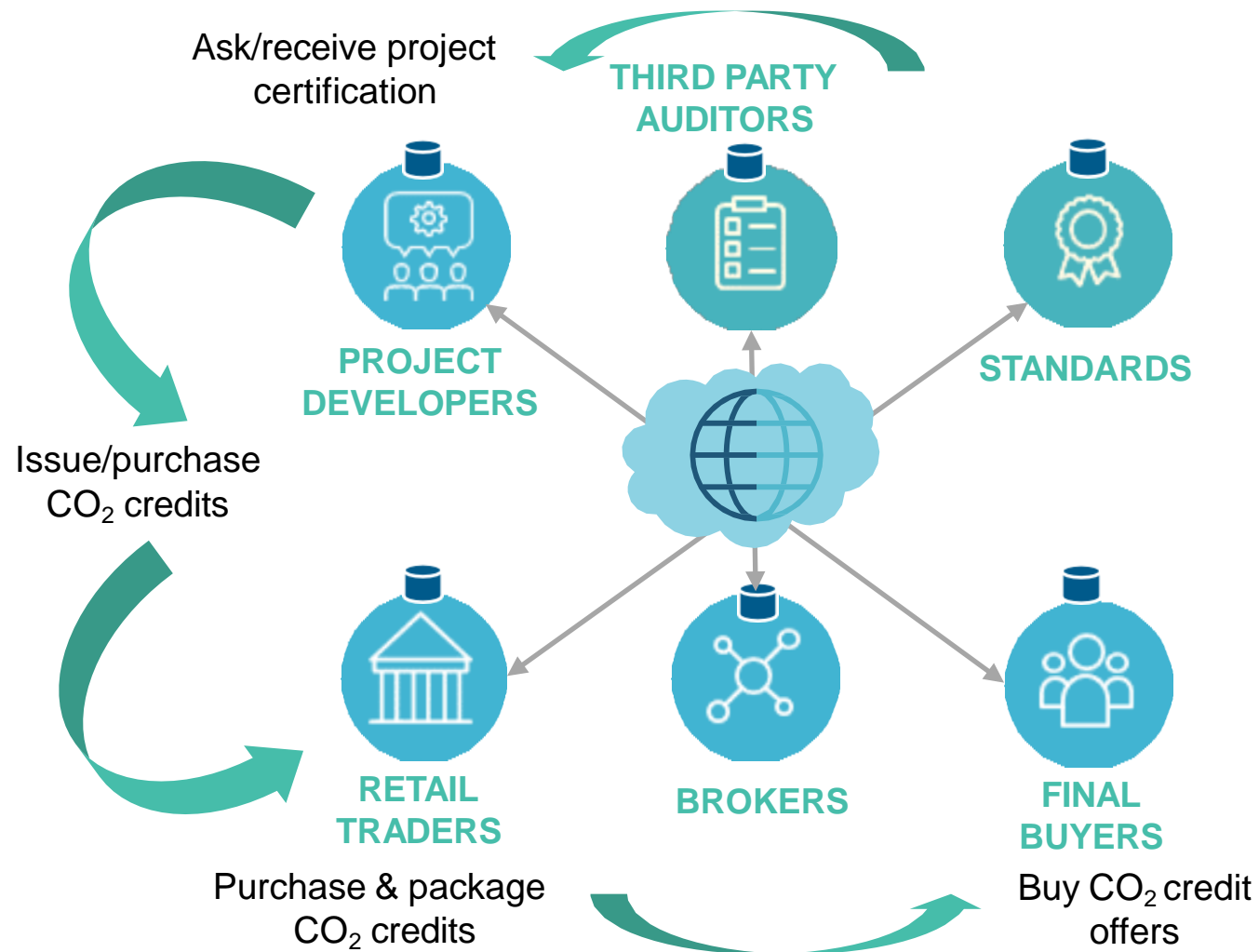
Central Bank Digital Currency for Financial Inclusion

Bahamas launched a digital currency in October 2020

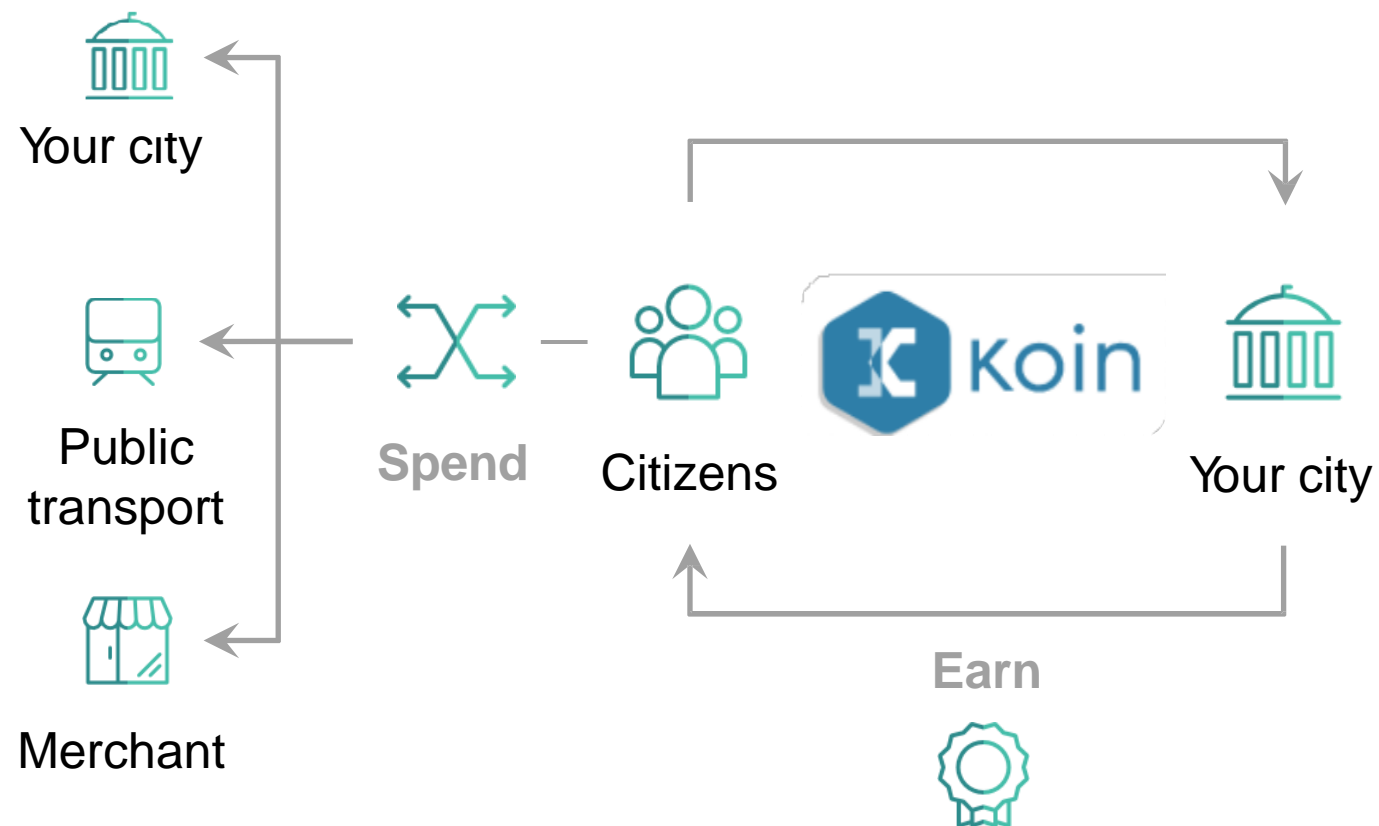
Sand Dollar:
“inclusive, convenient, secure”



Carbon Credits Trade with Blockchain



Community Tokens to reward sustainable behavior



Conclusion

- Major cryptocurrencies have same taxonomy issues as other ESG topics
- Blockchain technology can contribute with many use cases to Financial Sustainability



Thank you!

Carsten Goebel
Business Development
Carsten.goebel@worldline.com



Petra Sandner

**Chief Sustainability
Officer
Helaba**

Tatjana Gravenstein

**Expert Sustainability
ING**

Coffee Break

14:40 – 14:50 CET

During coffee break, do not “leave the meeting” i.e. stay connected while muting your sound and turning off your camera

Panel Discussion

Ali Niknam

**Founder & CEO
bunq**

Wrap-up

Save the date for the next Open Forum:

Tuesday, 21 June 2022

Thank you!

Participants in the forum are reminded of their responsibility to observe anti-trust laws.

The EBA Anti-Trust Policy is available at the EBA website.

https://www.abe-eba.eu/media/azure/production/1352/eba_antitrust_policy_20170602_final_clean.pdf

The forum is an open group, where interested stakeholders can discuss and exchange information on industry-wide topics.

The content of the slides presented and the views expressed in the context of the activities of the forum are those of the respective participants in the forum, and do not represent the views of the Euro Banking Association (EBA).