

### 2023-2024 Spring Term Green transition from international and European perspective

# **Decarbonisation & Business**

Lecture 3 | 12 April 2024



# Reporting climate-related information: TCFD



### Introduction to TCFD recommendations



G20 Finance Ministers and Central Bank Governors asked the Financial Stability Board (FSB) to review how the financial sector can take into account of climate-related issues. The FSB established the Task Force on Climaterelated Financial Disclosures (TCFD) to develop recommendations that:

- could "promote more informed investment, credit, and insurance underwriting decisions", and
- in turn, "would enable stakeholders to understand better the concentrations of carbon-related assets in the financial sector and the financial system's exposures to climate-related risks."

The Task Force published recommendations (2017) to help address climaterelated disclosure challenges faced by:

- Issuers who generally have an obligation under existing law to disclose material info, but lack a coherent framework to do so for climate info,
- Investors, lenders, and insurers who need decision-useful, climate-related info to make informed capital allocation and financial decisions

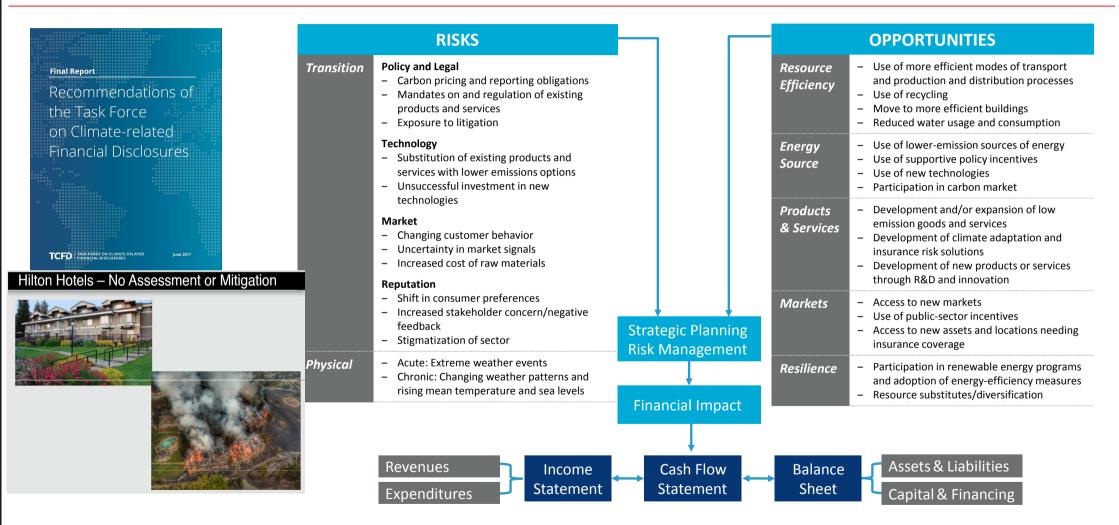
# Geographically Diverse Task

The Task Force's 31 international members, led by Michael Bloomberg, include providers of capital, insurers, large nonfinancial companies, accounting and



### Focus on financial impact





### **Disclosure Recommendations**



The Task Force developed four widely-adoptable recommendations on climate-related financial disclosures that are applicable to organizations across sectors and jurisdictions.

The recommendations are structured around four thematic areas that represent core elements of how organizations operate:



#### Governance

The organization's governance around climate-related risks and opportunities

### Strategy

The actual and potential impacts of climate-related risks and opportunities on the organization's businesses, strategy, and financial planning

### **Risk Management**

The processes used by the organization to identify, assess, and manage climate-related risks

### **Metrics and Targets**

The metrics and targets used to assess and manage relevant climate-related risks and opportunities

### **Disclosure recommendations**



The four recommendations are supported by specific disclosures organizations should include in financial filings or other reports to provide decision-useful information to investors and others.

Governance	Strategy	Risk Management	Metrics and Targets	
Disclose the organization's governance around climate-related risks and opportunities.	Disclose the actual and potential impacts of climate-related risks and opportunities on the organization's businesses, strategy, and financial planning where such information is material.	Disclose how the organization identifies, assesses, and manages climate-related risks.	Disclose the metrics and targets used to assess and manage relevant climate-related risks and opportunities where such information is material.	
Recommended Disclosures	Recommended Disclosures	Recommended Disclosures	Recommended Disclosures	
<ul> <li>a) Describe the board's oversight of climate-related risks and opportunities.</li> </ul>	<ul> <li>a) Describe the climate-related risks and opportunities the organization has identified over the short, medium, and long term.</li> </ul>	<ul> <li>a) Describe the organization's processes for identifying and assessing climate-related risks.</li> </ul>	<ul> <li>a) Disclose the metrics used by the organization to assess climate-related risks and opportunities in line with its strategy and risk management process.</li> </ul>	
<ul> <li>b) Describe management's role in assessing and managing climate-related risks and opportunities.</li> <li>b) Describe the impact of climate-related risks and opportunities on the organization's businesses, strategy, and financial planning.</li> </ul>		<ul> <li>b) Describe the organization's processes for managing climate-related risks.</li> </ul>	<ul> <li>b) Disclose Scope 1, Scope 2, and, if appropriate, Scope 3 greenhouse gas (GHG) emissions, and the related risks.</li> </ul>	
	c) Describe the resilience of the organization's strategy, taking into consideration different climate-related scenarios, including a 2°C or lower scenario.	C) Describe how processes for identifying, assessing, and managing climate-related risks are integrated into the organization's overall risk management.	<ul> <li>C) Describe the targets used by the organization to manage climate-related risks and opportunities and performance against targets.</li> </ul>	

### Key elements of disclosure recommendations

### **Principle of Materiality**

- Materiality is a substantial likelihood that a reasonable investor would consider it important. The trigger areas could be legislation/regulation, international agreements, indirect consequences of regulations and businesses, and physical impacts.
- The disclosures related to the Strategy and Metrics & Targets are subject to an assessment of materiality.
- The disclosures related to the Governance and Risk Management are not subject to an assessment of materiality and should be provided because many investors want insight into the governance and risk management context in which organizations' financial and operating results are achieved.

#### **Scenario Analysis**

- The Task Force encourages forward-looking information through scenario analysis—a useful tool for considering and enhancing resiliency and flexibility of strategic plans.
- Many investors want to understand how resilient organizations' strategies are to climate-related risks.
- Recommended disclosure (c) under Strategy and the related guidance asks organizations to describe the resilience of their strategies, taking into consideration different climate-related scenarios, including a 2°C or lower scenario.

#### 2°C Scenario

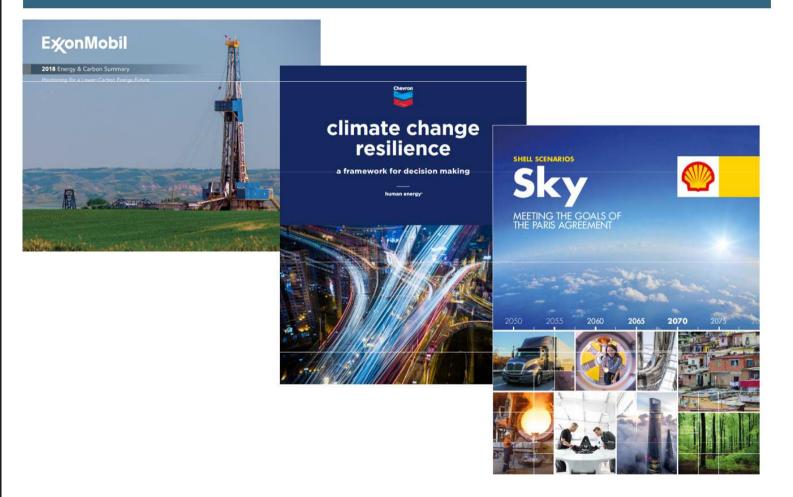
Provides a common reference point that is generally aligned with the objectives of the Paris Agreement.

#### Scenario Analysis Threshold

The Task Force established a threshold for organizations that should consider conducting more robust scenario analysis to assess the resilience of their strategies (those in the four non-financial groups with more than 1 billion USDeq in annual revenue).



#### **CLIMATE SCENARIO REPORTS**

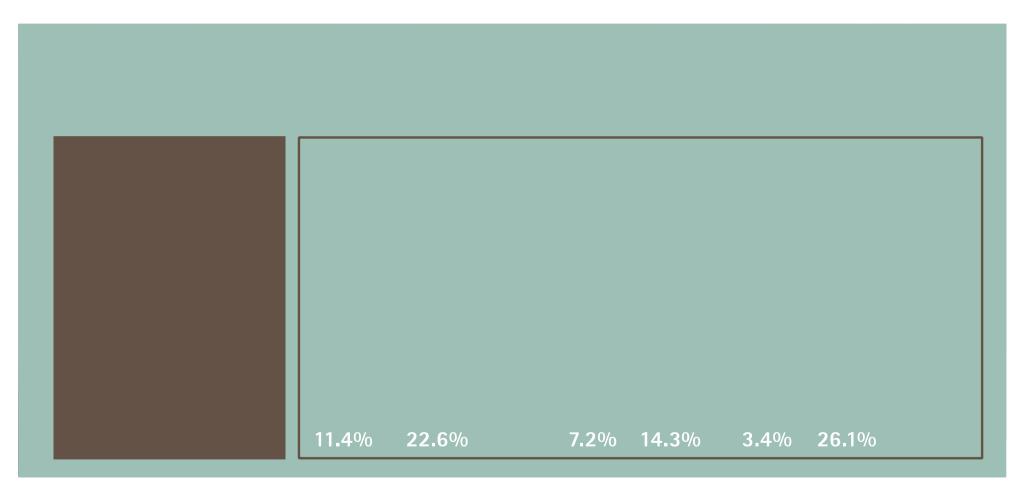


- How did they balance voluntary reporting vs materiality considerations, given investor expectations?
- At what point do the results of a scenario analysis become material?
- How can a company talk about opportunities?
- What about physical risks?

# CASE STUDY 2: TCFD DISCLOSURE FOR METAL MINING COMPANY



# GHG emissions from metal mining



# Copper and Molybdenum Mining Company

- One of the 10 leading molybdenum producers in the world (Southern Caucasus)
- EU is the main markets for company's products, molybdenum and copper
- Does not fall under EU CBAM or CSRD (yet!)
- Strategic partners: Government (partial owner) and EBRD

   financier requires climate risks assessment and Parisalignment

# IFRS S1 (former TCFD) / EU CSRD requirements





#### Governance

The organisation's governance around climate-related risks

#### Strategy

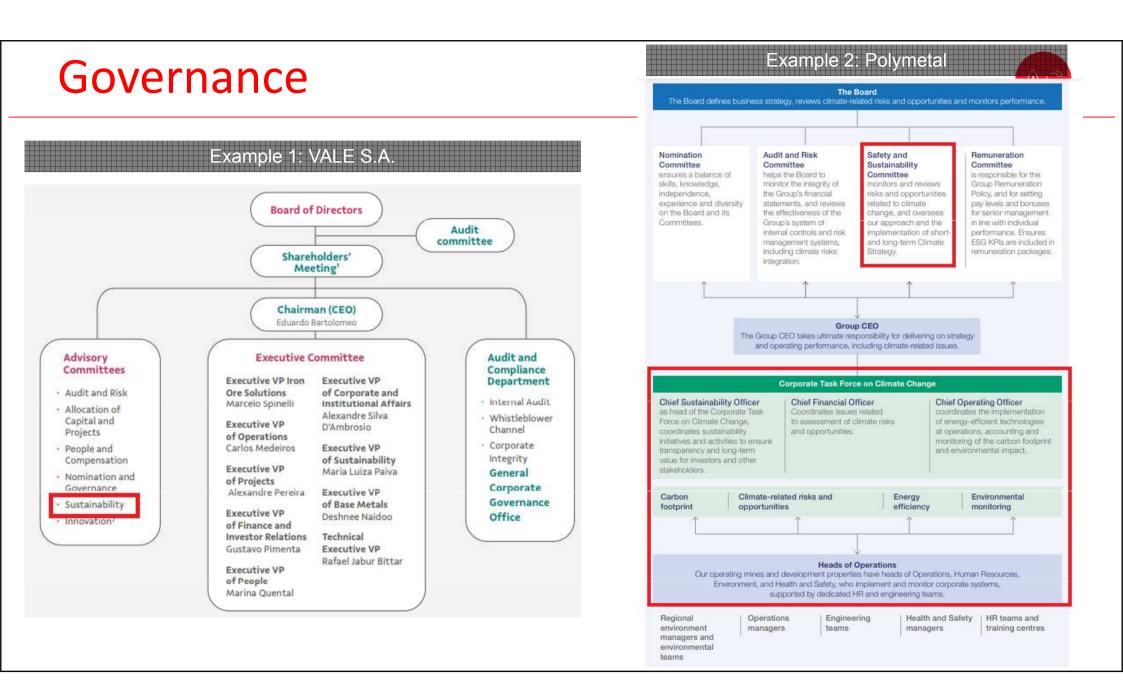
The actual and potential impacts of climate-related risks and opportunities on the organisation's businesses, strategy, and financial planning

#### **Risk management**

The processes used by the organisation to identify, assess, and manage climate-related risks

#### Metric and targets

The metrics and targets used to assess and manage relevant climate-related risks and opportunities



# Assessment of risks and opportunities

TCFD recommends assessing climate-related issues and how they may affect an organisation's businesses, strategy, and financial planning.

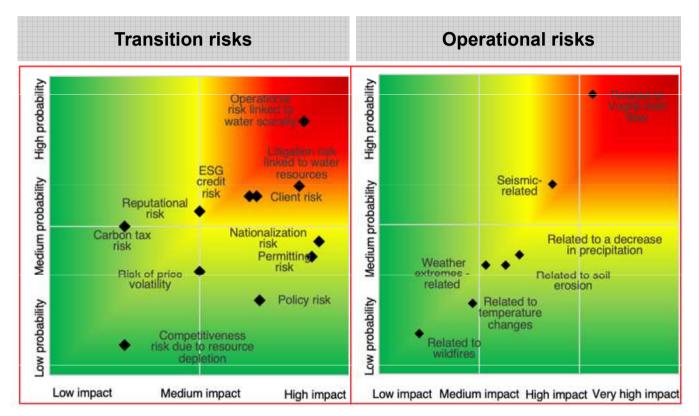
Risks	Opportunities
<ul> <li>Transition risks         <ul> <li>relate to changes in law and policies, technologies, the market, and reputation</li> </ul> </li> <li>Physical risks         <ul> <li>relate to changes in climate that affect operations</li> </ul> </li> </ul>	<ul> <li>Opportunities</li> <li>climate change incentivizes the use of resources and energy in a more efficient way,</li> <li>accessing new markets with old and/or new products, changes in the demand for products, etc.</li> </ul>
<ul> <li>relate to changes in climate that affect operations</li> <li>How the work was performed on assessing</li> </ul>	

- Benchmarking with risks and opportunities identified by selected peers (BHP Group, VALE S.A., Polymetal, KazMinerals)
- Analysis of studies and publications in the sector of copper and molybdenum mining
- Analysis of national regulatory requirements (existing and foreseen) of Armenia
- Conducting survey
- Conducting interviews

# **Risks**

#### Our report

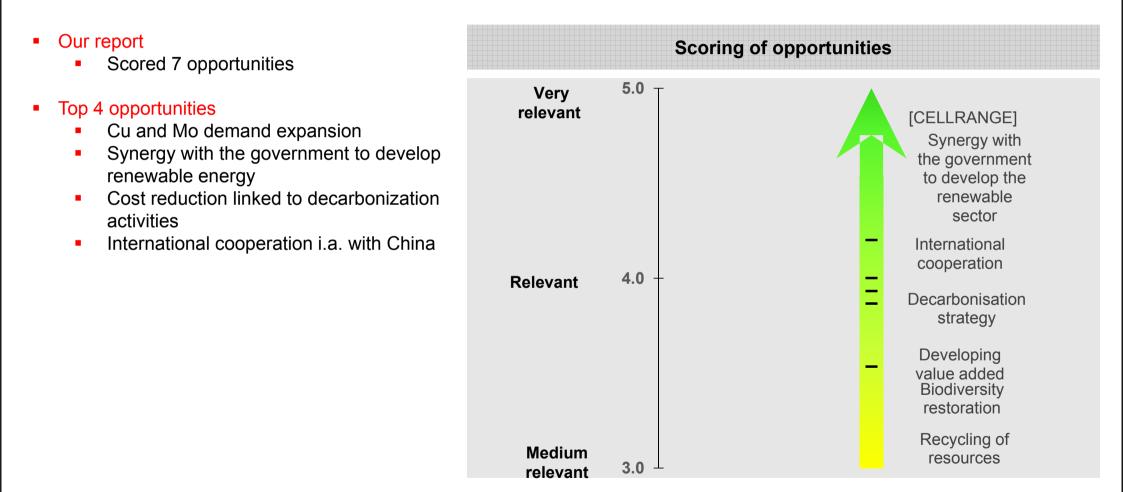
- Scored and positioned on the matrix 18 risks
- Top 4 risks (top right square)
  - Scarcity of water resources
  - Litigation related to water
  - Client risk: decarbonization strategy of clients increases demand for products with lower carbon footprint
  - ESG credit risk



#### Notes:

Operational risk related to water scarcity - a reduced flow of i river poses a risk to production processes. Litigation risk related to water - possible conflicts over water usage with local communities and agriculture. Client risk - a risk of losing clients if not aligned with their decarbonization targets. ESG risk - financing challenges due to stringent ESG requirements and a low ESG rating score.

# **Opportunities**



# **Risk management**

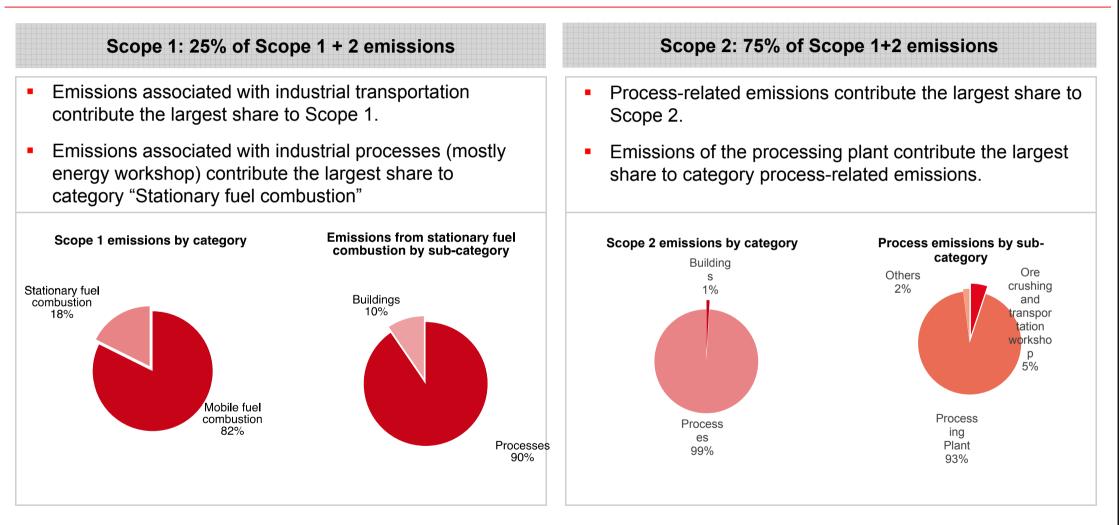
- TCFD recommends
  - describe how processes for identifying, assessing, and managing climate-related risks are integrated into the organization's overall risk management
- surveys, and environmental data collection Risk identification Assessment by Risk Assessment of the identified risks for their potential impact Management function, update of the risk matrix, reporting to and likelihood the Board Monitoring, reporting Corporate risk and updating of the management risk assessment function Risk management Integration into the Risk matrix/map corporate strategy development Operational and corporate Prioritization of risks based on functions severity and probability Reporting to top **Decision making** management Top management evaluates Summary of identified risks, risks and proposes mitigation their potential impacts, and initiation mitigation proposals strategies

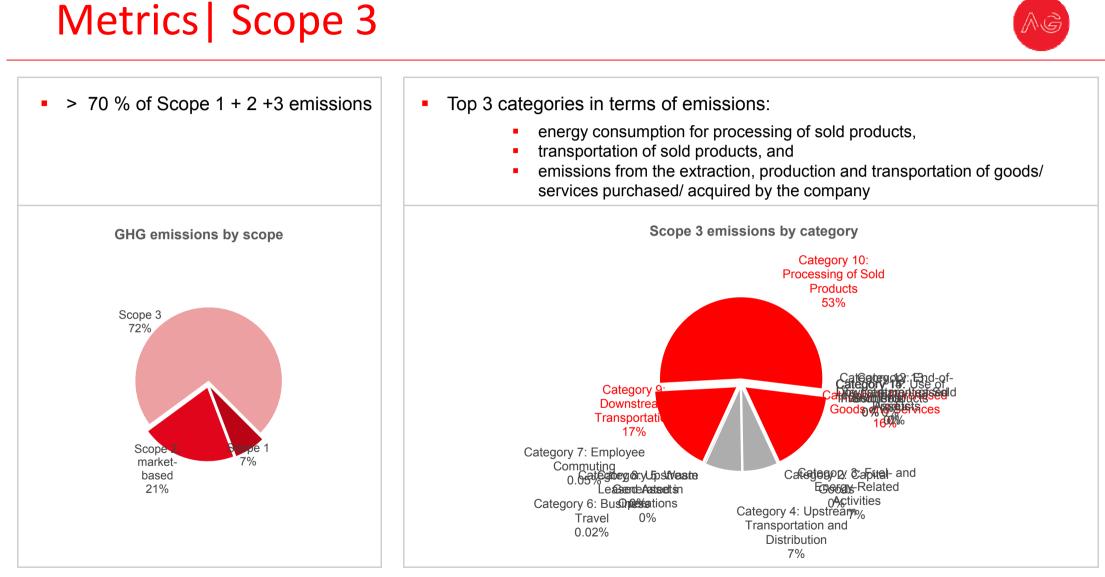
Ground-level operations.

- TCFD advocates
  - for an integrated approach to climate risk management urging businesses to embed climate risks into their broader risk management systems, ensuring long-term sustainability
- We recommend the following structure and process flow for the climate risk management ->

# Metrics | Scope 1 and 2







# **Proposed decarbonisation targets**

#### Scope 1 and 2 target

Between 30% and 35% by 2030, compared to 2022 (corresponds to an emission decrease of 3.8%/yr. to 4.5%/yr.)

This level of ambitions is in line with and/ or ahead of the IEA Net Zero Scenario for the global industry, decarb benchmarks for the CU industry in ICA and IFC Scenarios, and the targets of its peers.

It also reflects the hard to abate nature of company's activities related to production and processing of non-ferrous metals.

#### Scope 3 target

Between **8% and 20% by 2030 compared to 2022** (corresponds to an emission decrease of **1.0%/yr. to 2.5%/yr.**) This level of ambitions is in line with and/ or ahead of the targets for national economy, decarb benchmarks for the Cu industry in the ICA scenario, and its peers's targets.

#### Additional commitments for the 2030 target, consistent with the SBTi guidelines may include:

Achieve 30% of EVs in passenger vehicles (Scope 1); Achieve 30% renewable electricity consumption (Scope 2); and Ensure 100% of strategic value chain partners have science-based decarb targets (Scope 3).

# Decarbonisation levers | Scope 1 & 2



Three general decarbonisation levers are proposed (Scope 1 & 2):

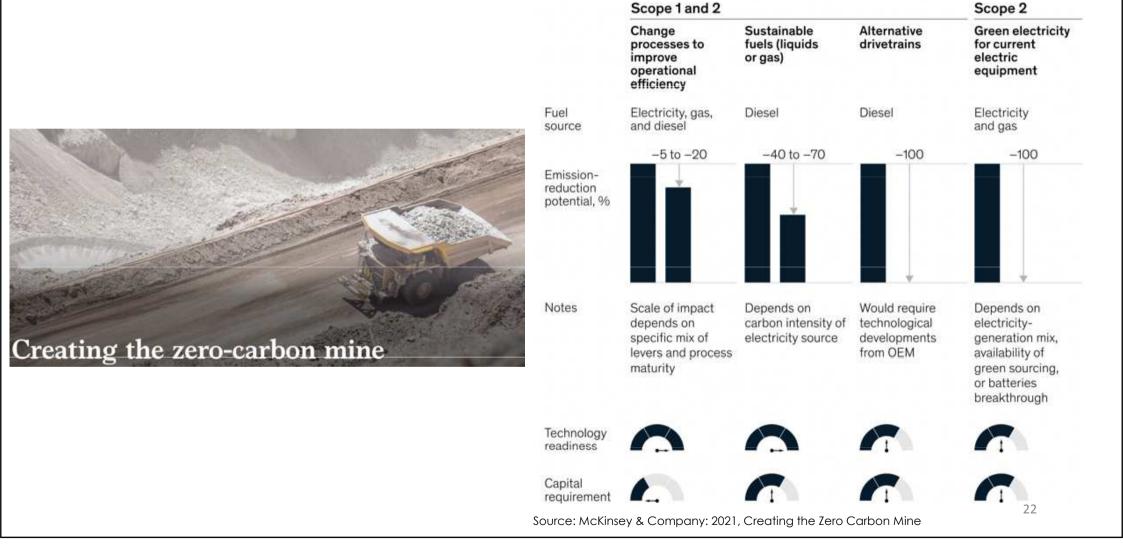
- energy and material efficiency,
- switch to renewables/ intensified electrification,
- decarbonisation of transport.

Breakdown of these levers and their technoeconomic assessment follows:

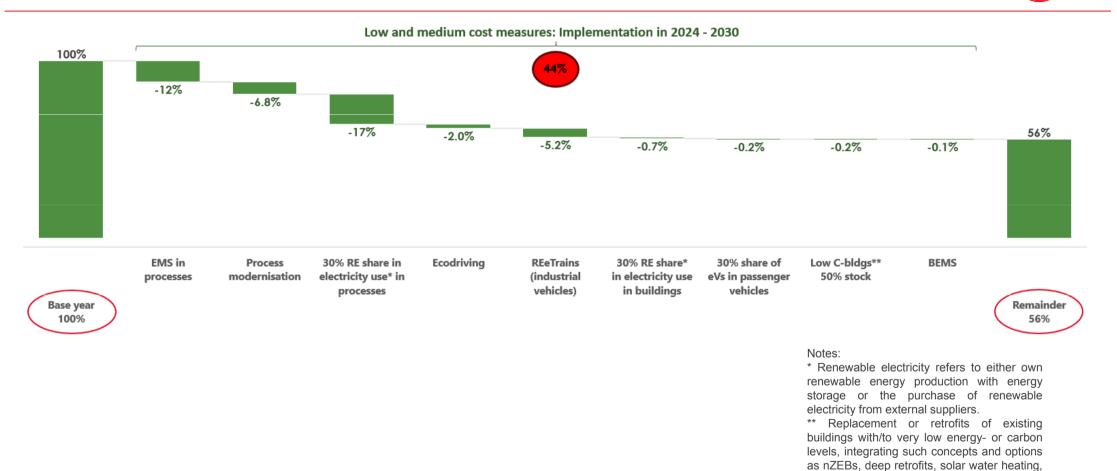
Low-ca	irbon technology	Technology readiness	Cost competitive	Available at Scale	Emissions abatement potential*	Notes / examples
<b>()</b>	Efficient Equipment			Now	5-10%	Best-in-class motors, variable speed drives
0	Process Optimization			<5 years	10-20%	Mine-to-mill, high intensity selective blasting, coarse ore flotation & ore sorting
	Digitization & Automation			<5 years	5-10%	Haul truck automation to reduce fuel use
祄	Renewable Energy			Now	70-100%	Onsite RE hybridized with diesel can provide 70% emission reduction
<b>[/</b> ]	Energy Storage			<5 years	100%	Enables complete RE penetration. Mines hav unique storage options (compressed /liquid air)
ð.	Sustainable Biofuels			Now	30-70%	Even without blending ~30% of emissions remain, typical 20-30% premium
H <sub>2</sub>	Green Hydrogen			5-10 years	100%	Used in large haul truck (fuel cell electric vehicles) or for high temperature heat. Already cost competitive with diesel in some locations but not available at scale
<b>.</b>	Battery Electric Vehicles			Underground: Now Open Pit: 5-10 years	100%	BEVs already deployed in underground mines to eliminate emissions. Larger sizes for oper pit applications in development
<b>A</b>	Conveyors & Trolley Assist			Now	~30%	Mature, cost competitive haulage electrification. Cannot replace all trucks at most mines
irce: IFC	2023. Net Zero Roadma	ap for Copper a	nd Nickel			21

### Decarbonisation levers | Scope 1 & 2





### Decarbonization roadmap | 2024 - 2030 | Scope 1 & 2



and others.

EU Corporate Sustainability Reporting Directive (CSRD)



# CSRD – Background information

- CSRD amends Directive 2013/34 (Accounting Directive "AD"), Directive 2004/109/EC (Transparency Directive "TD"), Directive 2006/43/EU (Audit Directive "AuD"), and Regulation (EU) No 537/2014 (Audit Regulation)
- CSRD revises and strengthens sustainability reporting requirements for companies introduced by Directive 2014/95 (Non-Financial Reporting Directive "NFRD") into the Accounting Directive
- ➢ Key element of the EU Green Deal
- Objective: to put Sustainability Reporting in equal footing with Financial Reporting
- Publication in OJ in December 2022 (Directive 2022/2464)
- Transposition Deadline: 6 July 2024

# **CSRD** – Key elements

Extension of NFRD scope of application

Strenghtening of NFRD reporting requirements

European Sustainability Reporting Standards (ESRS)

Developed by EFRAG and adopted by COM as delegated acts

# Digitalisation of sustainability reporting

 XHTML format (+ marking-up of the information once digital taxonomy is adopted)

# Assurance of sustainability reporting

limited assurance now, reasonable assurance at later stage

2 6

# Scope & Schedule

#### 2023:

The CSRD entered into force.

#### From 2025

All large companies that meet at least two of the following three requirements:

- 250 or more employees
- · 40 M EUR in net turnover
- 20 M EUR in assets

#### From 2028

All non-EU-country companies, with net turnover above 150 M EUR in the EU and if they have at least one subsidiary or branch in the EU.

#### From 2024

All large companies already covered by the NFRD that meet at least two of the following three requirements:

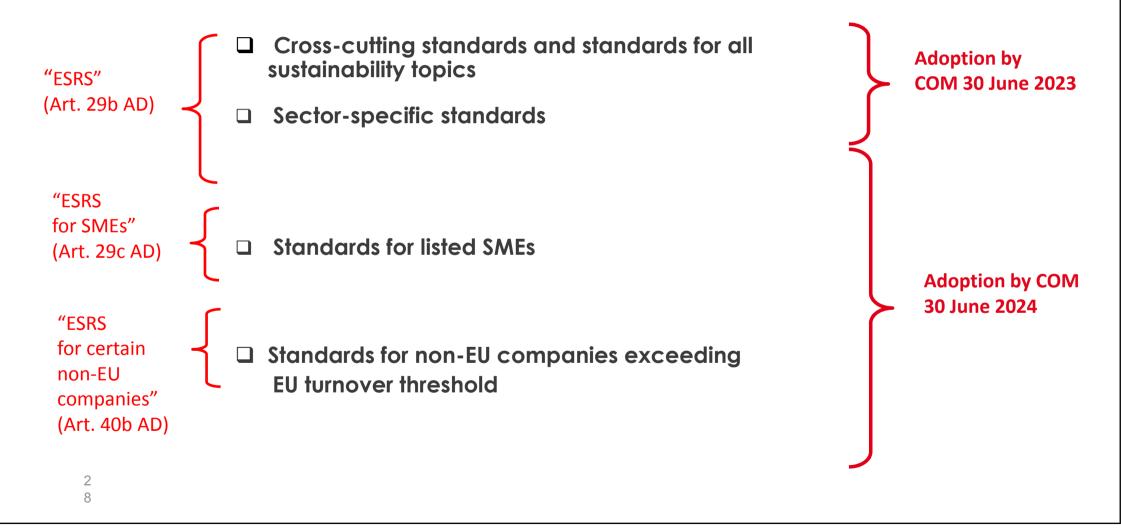
- 500 or more employees
- 40 M EUR in net turnover
- 20 M EUR in assets

#### From 2026

Small and medium sized-enterprises (SMEs) that meet at least two of the following requirements:

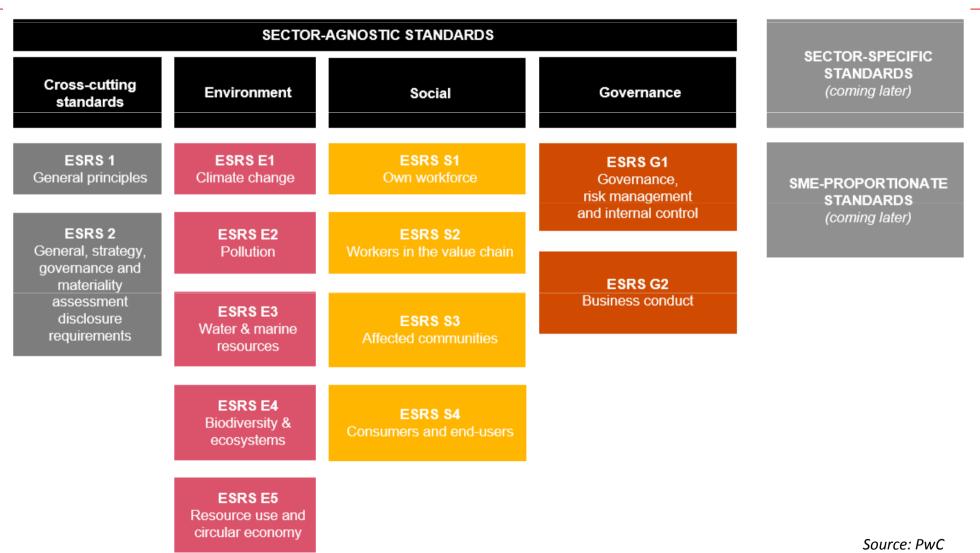
- More than 10 employees
- More than 700 000 EUR net revenue
- More than 350 000 EUR in assets

### **European Sustainability Reporting Standards "ESRS"**



### **CSRD Reporting Standards**







### **ESRS E1 Climate change**

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To enable users of sustainability statements to understand:

a) **how the undertaking affects climate change**, in terms of material positive and negative actual and potential impacts

b) the **undertaking's past, current and future mitigation efforts** in line with the Paris Agreement and limiting global warming to 1.5°C

c) **plans and capacity of the undertaking to adapt its strategy and business model**(s) in line with the transition to a sustainable economy and to contribute to limiting global warming to 1.5°C

d) any **other actions taken** by the undertaking, and the **result** of such actions to prevent, mitigate or remediate actual or potential negative impacts

e) nature, type and extent of the undertaking's **material risks and opportunities** arising from the undertaking's impacts and dependencies on climate change, and how the undertaking manages them

f) **financial effects** on the undertaking over the short-, medium- and long-term time horizons of risks and opportunities arising from the undertaking's impacts and dependencies on climate change

#### DRAFT EUROPEAN SUSTAINABILITY REPORTING STANDARDS

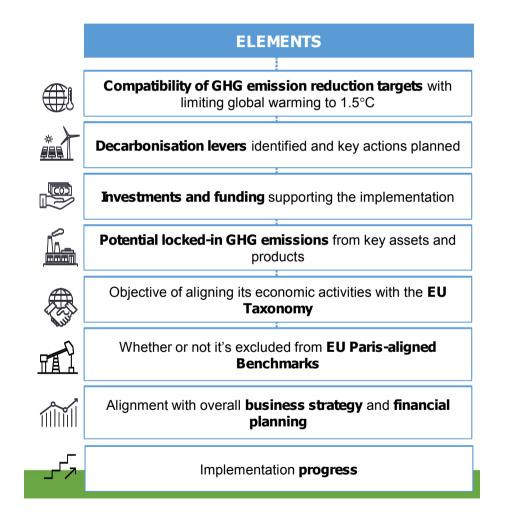
ESRS E1 Climate change



November 2022



### **DR E1-1 – TRANSITION PLAN FOR CLIMATE CHANGE MITIGATION**



"...the undertaking is expected to provide a high-level explanation of how it will adjust its strategy and business model to ensure compatibility with the transition to a sustainable economy and with the limiting of global warming to 1.5°C in line with the Paris Agreement (...) and the objective of achieving climate neutrality by 2050 with no or limited overshoot (...), and where applicable, its exposure to coal, and oil and gas- related activities." (AR 1)

*IF the undertaking does not have a transition plan in place, it shall indicate whether and, if so, when it will adopt a transition plan.* 



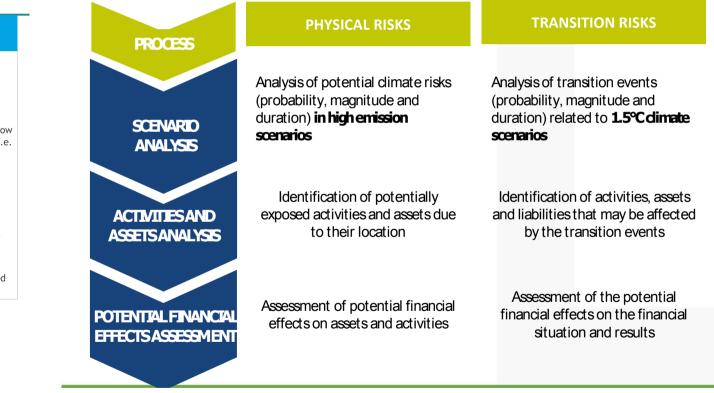
### Impact, Risk and Opportunities (IRO) Management

<b>TED TO</b>	

Describe the process to identify and assess climate-related IRO. This description shall include:

- Impacts on climate change, in particular, the undertaking's GHG emissions (as required by DR ESRS E1-6);
- Climate-related physical risks in own operations and along the value chain, in particular, climate-related hazards and an assessment of how its assets and business may be exposed to climate-related hazards (i.e. gross physical risks).
- Climate-related transition risks and opportunities in own operations and along the value chain, in particular, :
  - The identification of climate-related transition events, considering at least a climate scenario in line with limiting global warming to 1.5°C; and
  - The assessment of how its assets and business activities may be exposed to these climate-related transition events, creating gross transition risks.

Disclosure is required of how climate-related scenario analysis was used to inform the above disclosures.



### **IRO Management (cont)**

### E1-2 POLICIES RELATED TO CLIMATE CHANGE MITIGATION AND ADAPTATION

Disclose the policies adopted to manage material IRO related to climate change mitigation and adaptation, including summarised information on the policies implemented to manage them.

The DR should enable an understanding of the extent to which the undertaking has policies that address the identification, assessment, management and/or remediation of its material climate change mitigation and adaptation IRO.

The undertaking shall indicate whether and how its policies address the following areas:

- Climate change mitigation;
- Climate change adaptation;
- Energy efficiency;
- Renewable energy deployment; and
- ▶ Other.

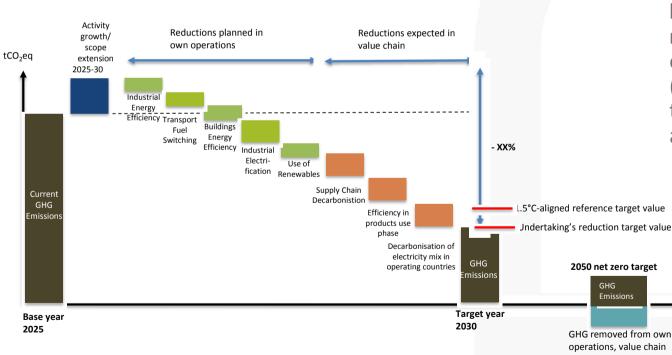
### E1-3 ACTIONS AND RESOURCES IN RELATION TO CLIMATE CHANGE POLICIES

Disclose climate change mitigation and adaptation actions and the resources allocated for their implementation in order to provide an understanding of the key actions taken and planned to achieve climaterelated policy objectives and targets.

Disclosure should:

- Follow the principles in ESRS 2 DC-A Actions and Resources in Relation to Material Sustainability Matters;
- Present the climate change mitigation actions by decarbonisation lever including the nature-based solutions;
- When describing the outcome of the actions for climate change mitigation, include the achieved and expected GHG emission reductions; and
- Relate significant monetary amounts of CapEx and OpEx required to implement the actions to:
  - The relevant line items or notes in the financial statements;
  - The key performance indicators required under article 8 of Taxonomy Regulation (EU) 2020/852; and
  - If applicable, the CapEx plan required by Commission delegated regulation (EU) 2021/2178.

# DR E1-4 – TARGETS RELATED TO CLIMATE CHANGE MITIGATION AND ADAPTATION



 Undertakings shall disclose whether and how they have set GHG emission reduction targets. If any, the description of the expected decarbonisation levers (excl. removals and carbon credits) and their overall quantitative contributions to achieve the targets.

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## **METRICS AND TARGETS: ENERGY**

Total energy consumption from non-renewable sources for high climate impact sectors :

- Fuel consumption from coal and coal products;
- Fuel consumption from crude oil and petroleum products;
- Fuel consumption from natural gas;
- Fuel consumption from other non-renewable sources;
- Consumption from nuclear products; and
- Consumption of purchased or acquired electricity, heat, steam, and cooling from nonrenewable sources.

Total energy consumption from renewable sources disaggregated by:

- Fuel consumption for renewable sources (including biomass, biogas, non-fossil fuel waste,
- hydrogen from renewable sources, etc.);
- Consumption of purchased or acquired electricity, heat, steam, and cooling from renewable sources; and
- Consumption of self-generated non-fuel renewable energy.

#### HIGH CLIMATE IMPACT SECTORS

High climate impact sectors are defined in Regulation 2019/2088 as NACE Sections A to H and L. They are summarised as:

- Agriculture, forestry and fishing;
- Mining and quarrying;
- Manufacturing;
- Electricity, gas, steam and air conditioning supply;
- Water supply, sewerage, waste management and remediation activities;
- Construction;
- Wholesome and retail trade, repair of motor vehicles and motorcycles;
- Transportation and storage; and
- Real estate activities.

### **METRICS AND TARGETS: GHG EMISSIONS**

	Evolution			Obje	<b>Objectives and target years</b>		
Reporting table	Reference year	N-1	N	% N / N-1	2030	2050	Objective / reference year
EMISSIONS OF GHG SCOPE 1							
Gross GHG emission Scope 1 (tCO <sub>2</sub> eq)	tCO <sub>2</sub> eq	tCO <sub>2</sub> eq	tCO2eq	%	tCO2eq	tCO <sub>2</sub> eq	%
Share of Scope 1 GHG emissions covered by regulated emissions trading schemes (%)	tCO <sub>2</sub> eq	tCO <sub>2</sub> eq	tCO <sub>2</sub> eq	%	tCO2eq	tCO <sub>2</sub> eq	%
COPE 2 GHG EMISSIONS							
ross GHG emission Scope 2 in location-based CO <sub>2</sub> eq)	tCO₂eq	tCO <sub>2</sub> eq	tCO <sub>2</sub> eq	%	tCO <sub>2</sub> eq	tCO <sub>2</sub> eq	GHG INTENS REVENUE
Gross GHG emission Scope 2 in market-based (tCO <sub>2</sub> eq)	tCO₂eq	tCO <sub>2</sub> eq	tCO <sub>2</sub> eq	%	tCO2eq	tCO <sub>2</sub> eq	Disclose its GH <u>Tota</u> Net
							The undertaki

The undertaking shall reconcile the net revenue in the calculation to the relevant line item or notes in the financial statements.

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# **METRICS AND TARGETS (CONT)**



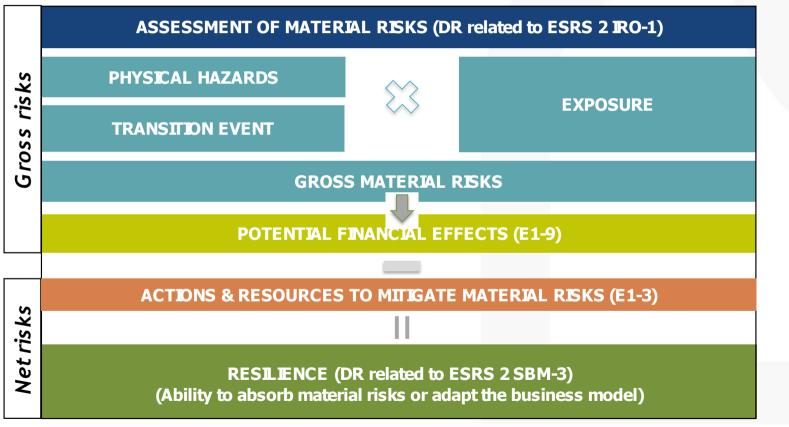
- GHG removals and storage from own operations and upstream and downstream value chain it may have developed in metric tonnes of CO2eq; and
- The amount of GHG emission reductions or removals from climate change mitigation projects outside its value chain it has financed through any purchase of carbon credits.

Disclose whether internal carbon pricing schemes are applied and, if so, how these support its decision making and incentivise the implementation of climate-related policies and targets, including:

- The type of internal carbon pricing scheme, for example, the shadow prices applied for CapEX or research and development (R&D) investment decision making, internal carbon fees or internal carbon funds;
- The specific scope of application of the carbon pricing schemes (activities, geographies, entities, etc.);
- The carbon prices applied according to the type of scheme and critical assumptions made to determine the prices, including the source of the applied carbon prices and why they are deemed relevant; and
- The current year approximate gross GHG emission volumes by Scopes 1, 2 and 3 in metric tonnes of CO2eq covered by these schemes, as well as their share of the undertaking's overall GHG emissions for each respective Scope.

### METRICS AND TARGETS: E1-9 POTENTIAL FINANCIAL EFFECTS FROM MATERIAL PHYSICAL AND TRANSITION RISKS AND POTENTIAL CLIMATE-RELATED OPPORTUNITIES

- Potential financial effects from material physical risks;
- Potential financial effects from material transition risks; and
- Potential to pursue material climaterelated opportunities.



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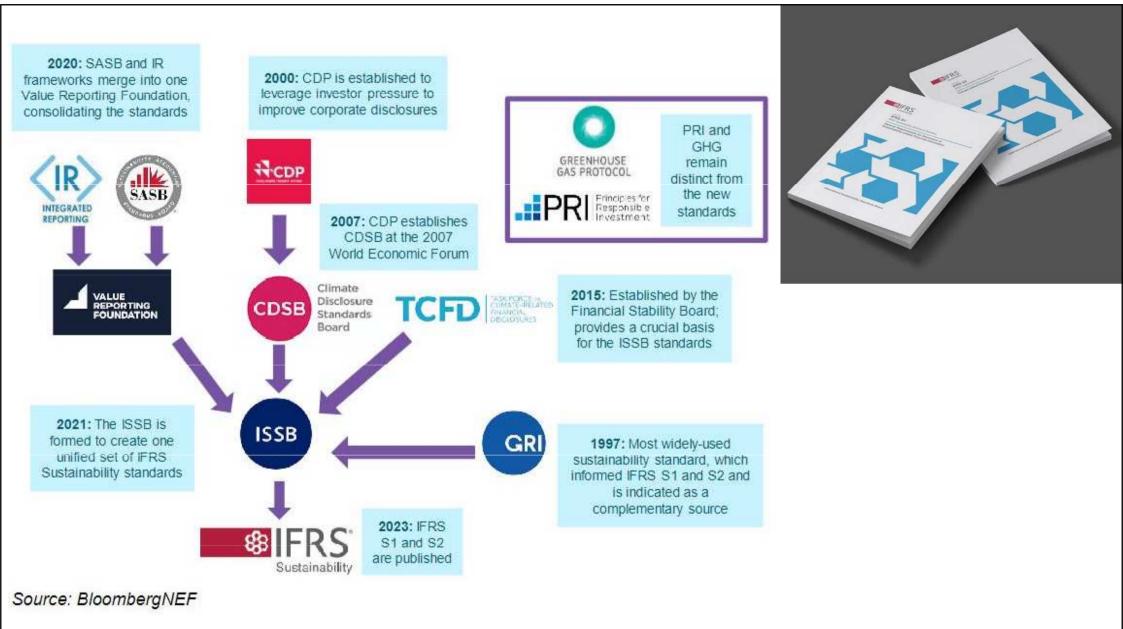
### **Financial impact assessment**



POTENTIAL FINANCIAL EFFECTS FROM MATERIAL PHYSICAL RISKS	POTENTIAL FINANCIAL EFFECTS FROM MATERIAL TRANSITION RISKS	POTENTIAL TO PURSUE MATERIAL CLIMATE- RELATED OPPORTUNITIES
<ul> <li>Disclosure of:</li> <li>The monetary amount and proportion (percentage) of assets at material physical risk over the short-, medium-and long-term time horizons; with the monetary amounts of these assets disaggregated by acute and chronic physical risk;</li> <li>The proportion of assets at material physical risk addressed by the climate change adaptation actions;</li> <li>The location of significant assets at material physical risk; and</li> <li>The monetary amount and proportion (percentage) of net revenue from its business activities at material physical risk over the short-, medium- and long-term time horizons.</li> </ul>	<ul> <li>Disclosure of:</li> <li>The monetary amount and proportion (percentage) of assets at material transition risk over the short-, medium- and long-term time horizons;</li> <li>The proportion of assets at material transition risk addressed by the climate change mitigation actions;</li> <li>A breakdown of the carrying value of its real estate assets by energy-efficiency classes;</li> <li>Liabilities that may have to be recognised in financial statements over the short-, medium- and long-term time horizons; and</li> <li>The monetary amount and proportion (percentage) of net revenue from its business activities at material transition risk over the short-, medium- and long-term time horizons including, where relevant, the net revenue from the undertaking's customers operating in coal, oil and gas-related activities.</li> </ul>	<ul> <li>Disclosure of:</li> <li>Its expected cost savings from climate change mitigation and adaptation actions; and</li> <li>The potential market size or expected changes to net revenue from low-carbon products and services or adaptation solutions to which the undertaking has or may have access.</li> <li>Quantification of the financial effects is not required if such a disclosure does not meet the qualitative characteristics of useful information in [Draft] ESRS 1 Appendix C Qualitative Characteristics of Information.</li> </ul>
RECONCILIATION TO LINE ITEMS OF		
Reconcile to the relevant line items or notes the significant	Reconcile to the relevant line items or notes the significant	

Reconcile to the relevant line items or notes the significant amounts of the assets and net revenue at material physical risk.

Reconcile to the relevant line items or notes the significant amounts of the assets, liabilities, and net revenue at material transition risk.



### **Overview of IFRS sustainability standards**

International Sustainability Standards Board



The International Sustainability Standards Board (ISSB) issued two **IFRS Sustainability Disclosure Standards in** June 2023

#### The first two ISSB Standards

**Disclosure** of and sustainability-related risks useful opportunities that is to investors in making decisions relating providina resources to to S1 also integrate the recommendations.

**IFRS S1** General Requirements for IFRS S2 Climate-related Disclosures **Sustainability**- sets out the requirements for a company related Financial Information sets to disclose info about its climate-related out the general requirements for a risks/opportunities, while building on the company to disclose info about its requirements described in IFRS S1. IFRS S2 **TCFD** integrates the recommendations the and requires disclosure info of about both the cross-industry and industry-specific company. The requirements in IFRS climate-related risks and opportunities. TCFD IFRS S2 is broadly consistent with the TCFD recommendations, but it requires more detailed info

IFRS S1 and IFRS S2 are effective for annual reporting beginning on 1 • January 2024. Companies are required to apply the two Standards together to assert compliance with IFRS Sustainability Disclosure Standards.



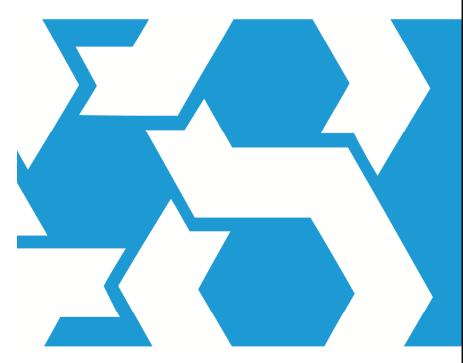
### IFRS S2

- A company applying IFRS S1 is required to apply IFRS S2 to identify and disclose material information about its climate-related risks and opportunities.
- IFRS S2 requires a company to disclose information about its governance, strategy and risk management, as well as metrics and targets, in relation to its climate-related risks and opportunities.

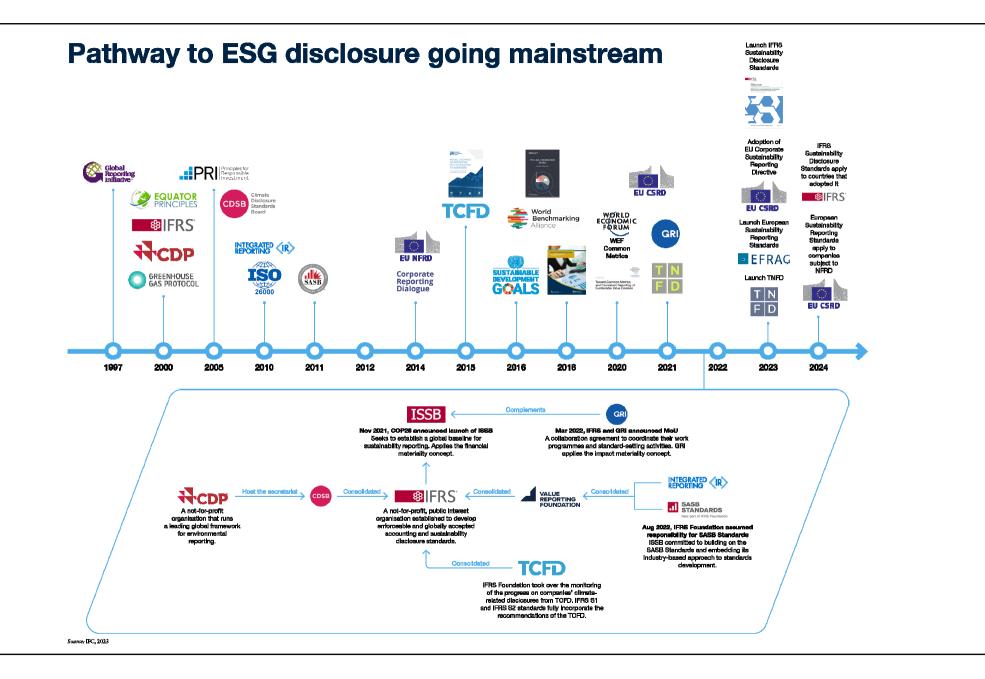


June 2023 IFRS S2 IFRS<sup>®</sup> Sustainability Disclosure Standard

**Climate-related Disclosures** 



International Sustainability Standards Board



### Key take-aways

- Yesterday, we thought that the climate change challenge is the issue of the future. Today, the future has come, and the corporate world must respond to the challenge.
- Should you need to understand climate risks and opportunities of corporations, including the financial industry firms, now you know where to search for their climate-related information
- To read analyze the disclosure report, it is useful to rely on the respective standards, recommendations and guidelines