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# Capital markets perspective on sustainability: How finance will drive the green transformation

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# "The financial sector is expected to play a key role in financing the transition to a greener and more sustainable economy..."

The European Commission's 2018 Action Plan



## **Green View – mining & metals among worst polluters**



### Metals & Mining among top polluting sectors...



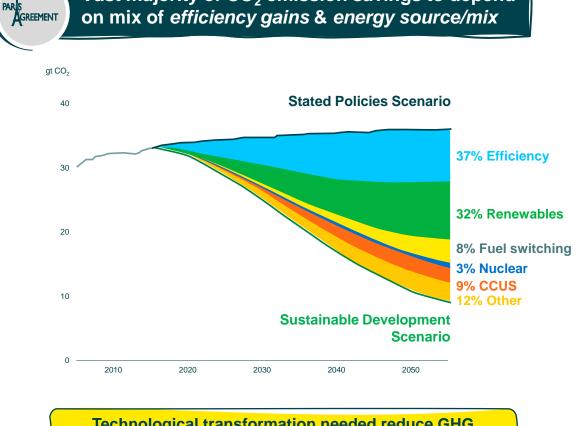
Energy & Utilities; 29% Transportation; 18% Agriculture & Forestry; 17% **Metals & Mining; 12%** Cement; 6% Others; 16%



### Aluminium increasingly in scope for policymakers

1.76% of global GHG emissions<sup>1</sup> most energy / emissions intensive of major metals<sup>2</sup>

ASI established in 2012



Vast majority of CO<sub>2</sub> emission savings to depend

Technological transformation needed reduce GHG emissions by 2050

### ESG – moonshot trend or to stay?

from voluntary activity to strategic imperative – why corporates should care...

### Growing awareness & transparency:

raise awareness of position w/in peer group & ambition levels re: sustainability performance targets, i.e. via publication of sustainability reports / ESG ratings

### Paris Climate Agreement (2016):

195 countries agreed to reduce GHG emissions to keep global average temperature < 2° C

#### **EU taxonomy:**

succinct direction of capital flows to sustainable business activities; EU reg. putting for first time non-fin. and fin. KPIs on level playing field

### Investing sentiment:

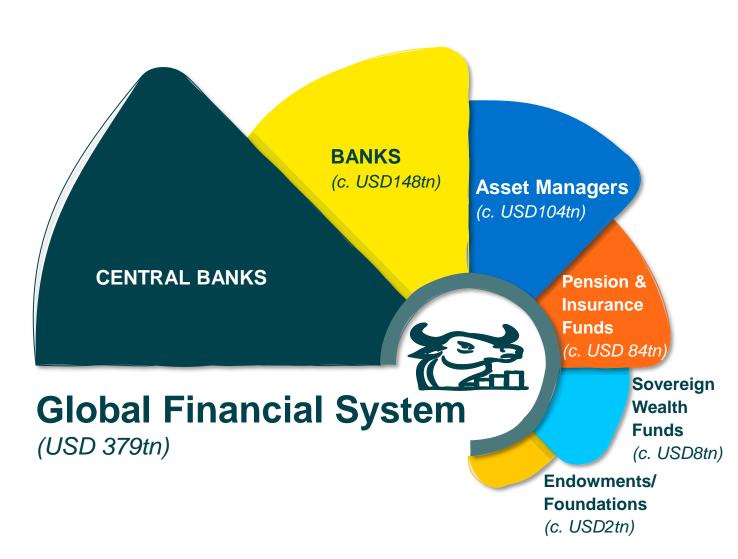
in both, equity & debt capital markets; ESG scores become relevant distinctive factors when forming investment decisions impacting investor choices

### Banking ESG risk frameworks:

increasing attention to ESG risks in banks' B/S; EUR banks instructed to incorporate climate related and environmental risks into credit scores

# **ESG** – gaining momentum

# increasingly embedded in financial services w/ financiers being assigned mandate to police change



#### Asset Owners & Managers

#### "Net Zero" Emission Portfolios

- moving to portfolios generating less emissions or having equivalent amounts of offsets/removals
- increasing pressure on high emitters and energy transition laggards

#### **Banks**

#### "Net Zero" Financed Emissions

- large diversified banks with increasing commitments to sustainable financing targets (2030) and "net zero financed emissions" (2050)
- measures incl. funding restrictions for fossil fuel industry and allowances for climate- and ESGrelated solutions

#### **Central Banks**

#### Climate-related Supervision & Investing coming

- central banks globally taking responsibility for accounting for and supervising of financial institutions climate change endeavours
- "greening" of reserve portfolios

## **ESG** – what's the capital market impact

capital market observations show far reaching impact with more to come?



Unprecedented changes underway across the financial system...



...are having sustained impacts on asset valuation & cost of capital

**commitment to sustainability escalating** across all players in the financial system

just over 1% of global financial assets needed to support sustainability goals

**governments stepping up policies and direct financing** for sustainable activities

asset owners & managers seeking increasingly impact in addition to ESG risk management

but more work needed to align sources of financial assets with areas of financial needs

clear "greenium" in the sustainable debt market

**significant multiple expansion** for pure-play "transition enablers" and fund flows will support premium valuation

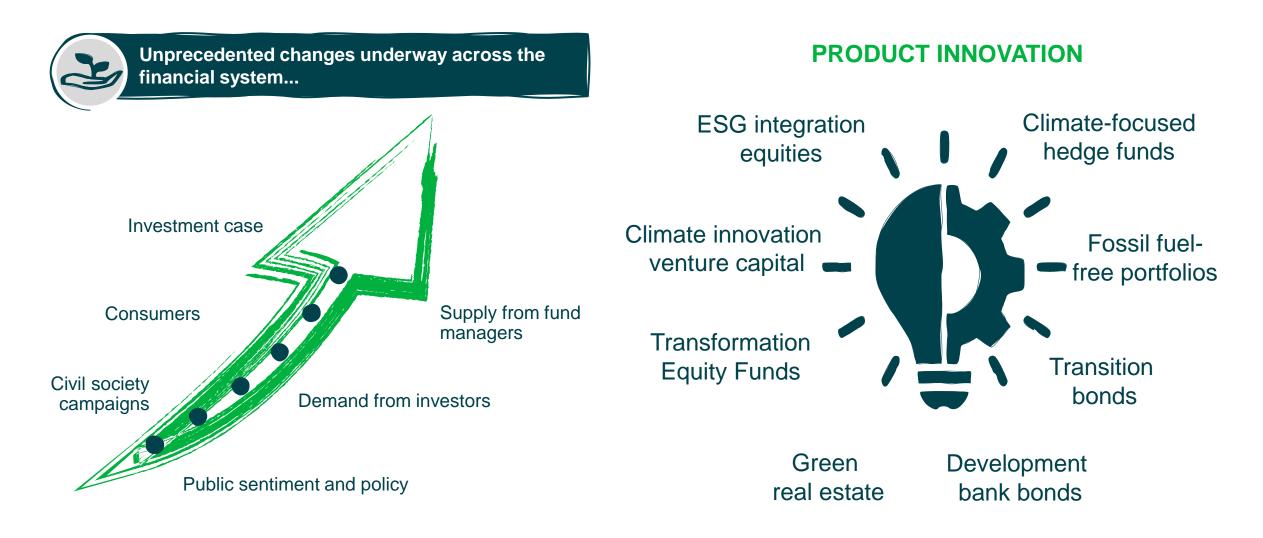
ESG-themed SPACs in high demand despite early development stage

higher engagement with "transition stories" means more divergence of capital flow between leaders & laggards

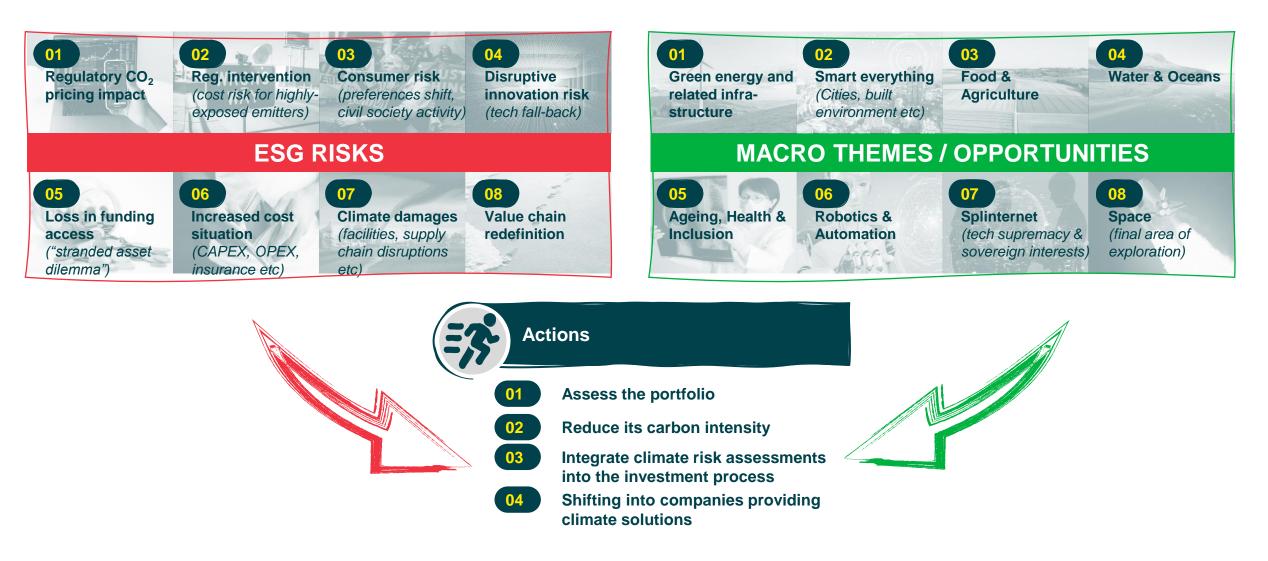
**growth in alternative investments funds** financing early stage technologies and innovation

### ESG – a new asset class emerged

over 5 years, sustainable investments have more than doubled



### **ESG – Capital market response** *time for action on active ownership and climate change*



# **ESG** – bold and coordinated actions required

government policies & spending drive speed of transition

once-in-a-generation challenge with all encompassing scope requiring policy frameworks EU internationally well advanced with i.e. EU Green Deal, EU Finance Taxonomy frameworks etc



Frame rules of compliance



Encourage capital shifts



Lower financing costs

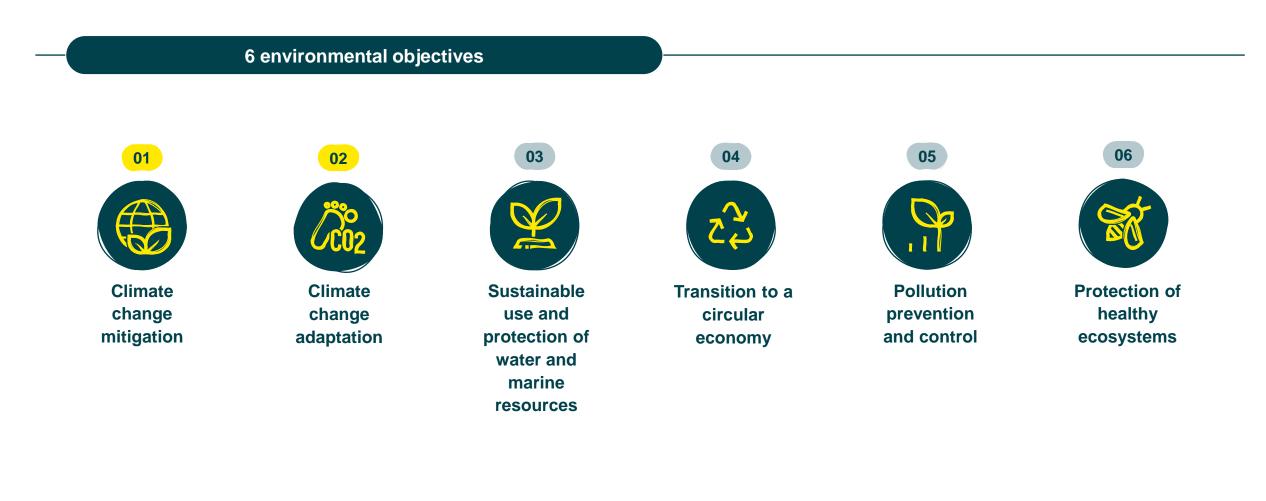
- climate-related regulation and policies
  essential for accelerating / forcing private sector transition to low carbon world
- frameworks increase investment visibility and certainty enabling the transition of asset portfolios to net zero GHG emissions by 2050

- governments can sway emerging technologies/industries deemed to be critical to the transition
- trigger private investor capital increasing the flow towards sustainable investments

- Reduce and incentivize risk taking by sharing the burden of high costs of making new emerging technologies scalable with government incentives
- these incentives can take be designed in a number of ways, i.e. grants, tax credits, R&D support etc.

# ESG – EU sustainable finance taxonomy

proposal for establishment of level playing field for green finance



# **ESG** – impact on corporate credit ratings

how clients and credit processes will be affected (1/2)



Identified climate-related and environmental risk drivers



- policy and regulation
- technology
- market sentiment

#### **Physical**

- extreme weather events
- chronic weather patterns

## **ESG** – impact on corporate credit ratings

how clients and credit processes will be affected (2/2)

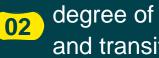
Climate-related risks are to become integral part of banks' loan processes in coming years

### 2021

Development of qualitative climate risk scores; to be incorporated into corporate ratings



### analysis of ESG risk exposure of a sector



degree of physical risks and transition risks



ability to mitigate those risks

### Defined goals 2021-2022:

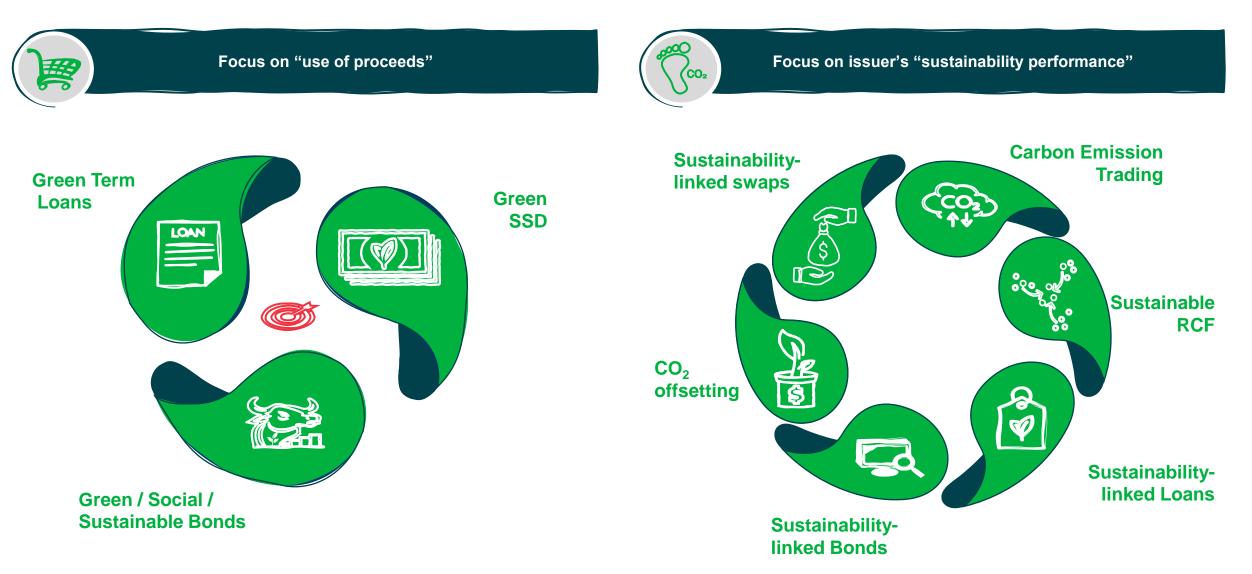
stepwise integration of climate risk scores (commencing w/ large corporates) to complement credit ratings

2022+: precise understanding of extent of CO<sub>2</sub> emission financing w/in loan portfolio, and degree of conformity with Paris Agreement

2024+: climate risk score to be incorporated into credit rating w/ impact credit score

### **Sustainable finance**

standard debt products overview



### **Metals transformation – key themes & green finance impact** likely needing LT regulatory / policy framework to facilitate industrial transformation

#### Best In Class Operators (ST-MT footprint)

- reduction in energy density by employment of BAT
- increase secondary production rates, i.e. scrap recycling

#### **Energy Mix Adaptation / Green Infra Build** (~*MT footprint*)

- shift to renewable power sources, CCU/CCS and new (inert anode) smelting
- significant full life cycle energy consumption reduction possible

#### Breakthrough Tech (MT-LT footprint)

- **w** requires **low / zero tech pathways**, i.e. biomass anodes / CO<sub>2</sub>-free processes
- ELYISIS technology understood most advanced<sup>1</sup>

#### Value Chain Optimisation & Redefinition (LT footprint)

- **peographic divergences** in energy footprint, shipping requirements etc.
- re-imagine value chain to reduce total cost vs impact function

#### Scope 3 View (ST-LT handprint)

- we key element in green economy providing supply tailwind
- benefits from usage of best suitable element (TLCCP)<sup>2</sup>, i.e. intra-ind. or steel<sup>3</sup>

# Thank you.

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