



Resilience & Sustainability: Furthering Europe's raw materials agenda

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Today's presentation: How to drive Europe's metals supply forwards



Metals to supply Europe's green & digital transition



Why does Europe need a competitive & sustainable value chain?



Investment potential into European metals



Where are European companies looking to invest?



Regulatory conditions for investment



4 pillars for EU action to facilitate new sustainable investments

Introducing Europe's metals ecosystem



900+ facilities























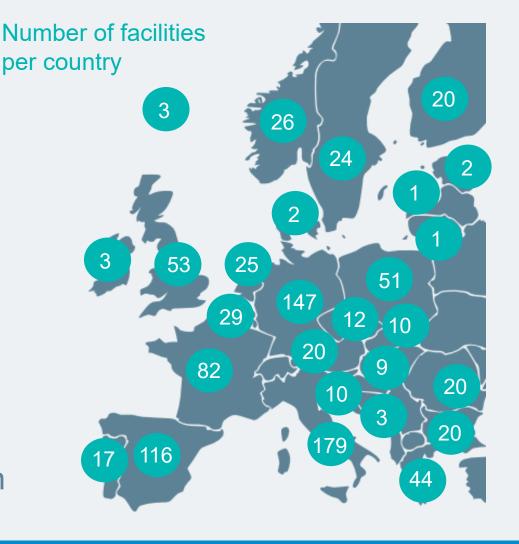
500,000 direct jobs



€120 bn annual turnover



1/5
global production

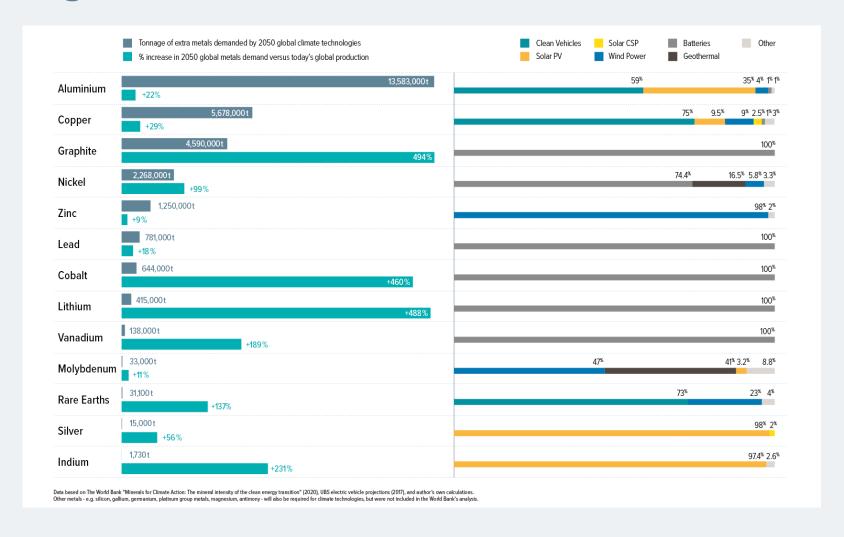


Metals and minerals: Much higher volumes required by Europe's green and digital transition

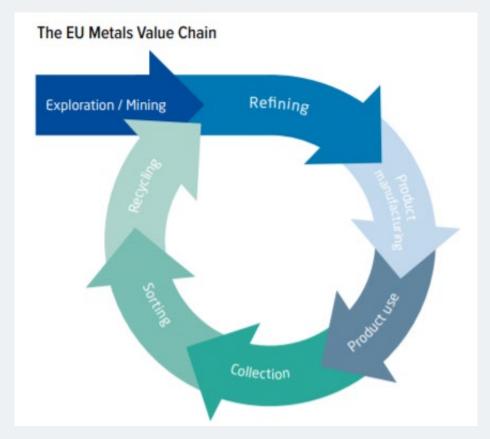


Up to 500% more metals for global energy transition

Base, precious, specialty metals + selected minerals, e.g. graphite



What does Europe need? A full & sustainable metals value chain, from the mine to end-of-life



Value chain must also be aligned with EU climate-neutrality & zero-pollution goals

- 1. Circular Economy: Europe must make use of all the metals it disposes of, given their permanent properties
- Mining: Europe must consider expanding its sustainable mining capacity in Nordics, Iberia, Balkans, Ireland & more
- Refining & fabrication: Europe mustinvest into value-added steps for transferring raw materials to market

All steps needed together + diversified global supply

Raw Materials Alliance: A welcome model to tackle this challenge



Scope: "the full range of elements and minerals required by Europe's green and digital transitions, from critical raw materials to base metals and industrial minerals"



Stakeholder consultation

Regulatory bottlenecks

Investment platform

Public awareness

Key success factor = Dialogue involving all parties





Environmental & Social challenges must be tackled

Reminder: Presentation structure



Metals to supply Europe's green & digital transition



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2

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4 pillars for EU action to facilitate new sustainable investments

Without new investment: EU import reliance will increase further

Value chain stage

Current industrial base

2040 situation without new investment



Mining

1% of world total

Al - 0.6% Cu - 4.1% Ni - 3.0% Pb - 9.7% Zn - 5.4%

CRMs = minimal

→ Up to 50% less base mining capacity due to depletion of existing projects

→ Full import reliance for critical raw materials



Smelting/ Refining 9% of world total

Al - 7% Cu - 13.1% Ni - 9.6% Pb - 9.4% Zn - 13.4%

CRMs = minimal

→ Challenges to existing operations from high EU climate & environment goals

→ No new refining capacity for battery metals and other high-growth segments



Recycling

27% of world total

Al - 30% Cu - 23% Ni - 29% Pb - 18% Zn - 24%

CRMs = Recovery of PGMs, Ge, Ga, In, Bi, W, Co, Li from complex waste → Maintained recycling industry, but losing out to Asia for recycling of high value waste streams (e.g. batteries, solar, wind)

Investment Pipeline: Companies across the metals value chains have 50+ investment projects in planning







High environmental & social standards must be at the centre of all investments

Reminder: Presentation structure



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Regulatory conditions for investment



4 pillars for EU action to facilitate new sustainable investments

New investments: require a supportive regulatory framework

25 CEOs: Ambition to invest into supplying green & digital transitions



Full declaration: https://bit.ly/36DntRJ

Four pillars of regulatory support











Unlock financing and investment









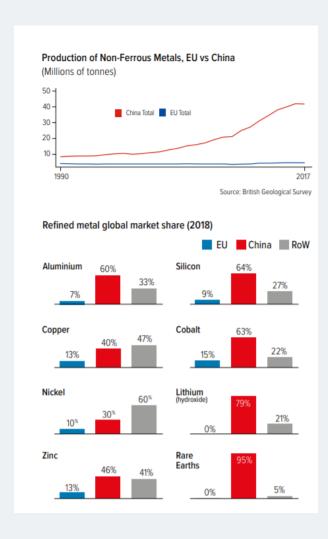
- **Highly capital intensive =** Growing EU metals value chains while advancing towards climate-neutrality, e.g.
 - New large-scale project = up to EUR 1bn for biggest
 - Climate innovation = real breakthroughs now required
- COVID-19 downturn: Metals industry already suffering from oversupply and reduced demand
- EU & Member State funds: Need directing for raw materials projects – together with environmental & social requirements

Actions: Support through EU & national recovery funds (+ Just Transition, ETS Innovation, IPCEI etc.)



Be bolder on the global stage





- China's "strategic" metals industry: at the centre of industrial policies & receiving huge subsidies
 - 50% global market share for base metals
 - 80% share for critical raw materials
- Belt and road: China is also aggressively buying up global primary resources, with companies benefitting from easy access to finance

! Environmental considerations are low on agenda!

Actions: Trade defence, WTO reform, global sourcing strategy

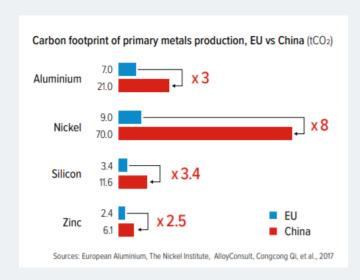


Make sustainability Europe's metals differentiator



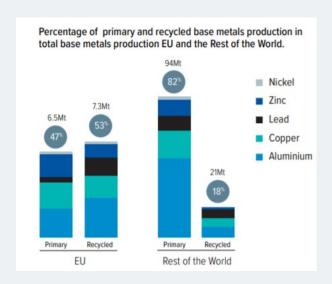
Climate

EU base metals = up to 8x less CO2 than China (+81% CO2 reduction w/ decarbonised power)



Recycling

53% EU base metals from recycling vs 18% in RoW



Environment & Health

Meeting high EU environment/social standards

How Rare-Earth Mining Has Devastated China's Environment

BY EARTH.ORG | ASIA | JUL 14TH 2020 | 5 MINS

Tesla's nickel quest highlights metal's environmental burden

Actions: Develop EU markets for low-carbon, sustainable, and ethically-sourced metals, while advancing the Circular Economy



Establish a level playing field for EU companies





High & rising power costs

Environmental & social compliance

Less available finance





Subsidies & other advantages
Lack of environmental pressure
Easy finance & permitting

And metals are the only basic material sold at a globally set price

Actions: Prioritise competitive low-carbon electricity, provide predictability in environmental & chemicals legislation

Conclusion: message for Europe's Raw Materials agenda





Global action

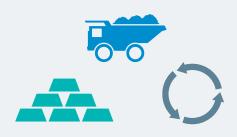


Sustainability

Level playing field

Investment into sustainable EU metals value chains

(+ diversified global supply)



A secure supply for new energy technologies







+ clean mobility, zero-energy buildings, packaging etc.

Towards a guarantee of lifecycle sustainability



All parties must now work together, so further sustainability improvements can be made from a position of competitiveness