















Agenda

Session II:	Responisible Mineral Raw Raw Material Production in Europe - The Importance of
	the Regional Ecosystems and Clusters

13:00 – 13:20	Keynote speech	Green Deal Industrial Plan for Net-Zero Age
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13:00 – 13:20	Roundtable Dialogue	Putting the Green Deal Industrial Plan into practice in the regional concept

14:30 – 14:40	Concluding remarks

 4:45 	Matchmaking
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15:00 – 17:00 Policy Roundtable

18:00 – 21:00 Taste from East and Nort Finland Green Transition Gala 2023













Session II: Responsible Mineral Raw Production in Europe – The importance of the Regional Ecosystem and Clusters

Facilitator: Jukka Teräs, CEO Norrum Oy

Keynote speech – Green Deal Industrial Plan for the Net-Zero Age: ensuring secure and sustainable supply chains for EU's green and digital future

• Jakub Boratynski, Director Networks & Governance, DG GROW, European Commission

Roundtable dialogue – putting the Green Deal Industrial Plan into practice in the regional context:

- Sari Tasa, Senior Advisor, Ministry of Economic Affairs and Employment, Finland
- Luís Martins, President of the Board, Cluster Portugal Mineral Resources, Portugal
- Dessislava Chalamova, Programme Director, Industrial Cluster Srednogorie, Bulgaria
- Jakub Boratynski, Director Networks & Governance, DG GROW, European Commission













Keynote speech

Green Deal Industrial Plan for the Net-Zero Age: ensuring secure and sustainable supply chains for EU's green and digital future

Jakub BORATYNSKI

Director Networks & Governance DG GROW, European Commission













Critical Raw Materials & EU climate ambitions

Non-regulatory actions

2008 Raw Materials Initiative

2020 Action Plan on Critical Raw Materials



Calls for stronger actions

EU Industrial Strategy 2020 + 2021 update

EP resolution 2021 on CRM strategy

EU Council 2022

Conference on the Versailles Declaration | Future of Europe - ccl

SOTEU 2022 Key initiative for 2023



Green Deal Industrial Plan

Net-Zero Industry Act

Critical Raw Materials Act





Become climate-neutral by 2050



Protect human life, animals and plants, by cutting pollution



Help companies become world leaders in clean products and technologies



Help ensure a just and inclusive transition













Critical Raw Materials & EU industrial policy



EUROPEAN INDUSTRIAL STRATEGY (March 2020)

- Raw materials identified as essential for the green transition
- set-up of European Raw Materials Alliance announced



EU INDUSTRIAL STRATEGY UPDATED (May 2021)

- Supporting Europe's Open Strategic Autonomy through dealing with dependencies, including raw materials
- Various actions to support raw material projects identified: IPCEI, RRF, Horizon Europe, Strategic Partnerships, etc.



INDUSTRIAL FORUM

- Thematic workshops on strategic dependencies, including raw materials
- Securing the access to CRM must be a key priority if we wish to achieve green transition
- Security of CRM supply will rely on **diversification of the supply chains** including through **strategic partnerships** with likeminded partner

countries













Why <u>CRITICAL</u> Raw Materials?



paramount to achieve the green & digital transitions of EU industry



essential to enhance EU long-term competitiveness



key to ensure an EU open strategic autonomy













An inconvenient truth...

63% of the world's cobalt, used in batteries, is extracted in the Democratic Republic of Congo, while 60% is refined in China

97% of EU's magnesium supply is sourced from China

100% of the rare earths used for permanent magnets globally are refined in China

South Africa provides 71% of the EU's needs for platinum group metals

Türkiye provides 98% of the EU's supply of borate

Rare Earths

(wind turbines)

Nickel

(batteries)

Lithium

(electrical vehicles)

Platinum Group Metals

(hydrogen fuel cells)



x5.5 by 2050

Projected

increase in global

demand:

x15 by 2040

x57 by 2050

x970 by 2050









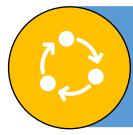


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European Critical Raw Materials Act

Ensuring a secure and sustainable supply of critical raw materials for the Union



Strengthen all stages of the European CRM value chain





Diversify EU CRM imports to reduce strategic dependencies

Improve CRM circularity and sustainability















CRMA: setting 2030 benchmarks for raw materials



EU EXTRACTION

At least **10%** of the EU's annual consumption for extraction



EU PROCESSING

At least **40%** of the EU's annual consumption for processing



EU RECYCLING

At least **15%** of the EU's annual consumption for recycling



EXTERNAL SOURCES

Not more than 65% of the EU's annual consumption of each strategic raw material at any relevant stage of processing from a single third country













Critical & Strategic Raw Materials: who are they?

34 raw materials defined as critical by their high

- > Economic importance
- > Supply risk

... based on a regular assessment of available data in an established methodology

- Antimony
- Arsenic
- Bauxite
- Baryte
- Beryllium
- **Bismuth**
- Boron
- Cobalt
- Coking Coal
- Copper
- Feldspar
- Fluorspar
- Gallium

- Germanium
- Hafnium
- Helium
- Heavy Rare Earth Elements Strontium
- Light Rare Earth Elements
- Lithium
- Magnesium
- Manganese
- Natural Graphite
- Nickel battery grade
- Niobium
- Phosphate rock
- Phosphorus

- Platinum Group Metals
- Scandium
- Silicon metal
- Tantalum
- Titanium metal
- Tungsten
- Vanadium













CRMA: strengthening the value chain through Strategic Projects



Identifying **Strategic projects** across the whole SRM value chain: extraction - processing - recycling

Selected by the Commission upon advice from the European Critical Raw Materials Board based on:

- Contribution to security of supply
- Sustainability
- Technical feasibility
- Cross-border benefits in EU/ Economic and social benefits in third countries

Benefits

- Priority Status in national + EU law: for administrative & judicial procedures
- One-stop-shop approach
- Permitting Legal time-frames
 - Extraction: 24 months
 - Processing & Recycling: 12 months
- Provisions to facilitate and timely deliver **environmental assessments and authorisations without weakening environmental and social protection**
- Enabling conditions to implement Strategic Projects
 - The Critical Raw Materials Board provides coordination and advice to secure remaining financing
 - Provisions to facilitate the conclusion of off-take agreements













CRMA: risk monitoring and mitigation

- Monitor supply risks of CRM
- > Stress tests by the Commission with Member States
- > Alerts to MS/relevant authorities in case of risk
- > Company risk preparedness
- > Strategic stockpiling: information gathering and coordination
- Voluntary joint purchasing













CRMA: developing win-win partnerships with reliable partners



Critical Raw Materials Club

Establish a raw materials alliance with partners to strengthen supply chains and diversify sourcing



Strategic Partnerships on Raw Materials

Expand our network of strategic raw materials partnerships



Trade and Investment Agreements

Leverage and expand our trade agreements as regards raw materials extraction, processing and trade



Global Gateway

Support critical raw material supply projects, including on infrastructure, connectivity and sustainability



Enforcing Trade Rules

Continue to combat unfair trade practices, especially when they concern trade investment in or access to critical raw materials













CRMA: promoting a more sustainable & circular Critical Raw Material economy

Requiring
Member States to
step up efforts to
recover critical raw
materials from waste
products and mining
waste

Increasing the share of recycled critical raw materials in manufacturing Improving
the recyclability
of rare earth
permanent magnets
in specific products and
technologies on the EU
market

Increasing
efforts to
mitigate any adverse
impacts with respect
to labour rights,
human rights and
environmental
protection

Recognising
certification schemes
to increase the
sustainability of the
critical raw materials
placed on the EU market













Until the Critical Raw Materials Regulation is adopted...

a lot can be achieved by using the existing tools and instruments













CRM & skills: existing opportunities to seize

EIT Raw Materials training actions

- ☐ Introduce society as a whole to the importance and relevance of raw materials and incite interest in topics related to raw materials
- Equip talent with technical knowledge, including ESG (Environmental, Social, Governance) standards, required by the raw materials industry today
- ☐ Foster entrepreneurial and innovation skills, knowledge and attitudes needed for the entre- and intrapreneurs of tomorrow





EU Pact for Skills

- aims to get public and private organisations together and encourage them to make concrete commitments to upskilling and reskilling adults
- ☐ Publics authorities and stakeholders from mining industry are welcome to join the Pact



CRMA to launch a Raw Materials Academy













EIT, ERMA & Raw Materials Summit



- > set up in 2015 to advance Europe's transition into a sustainable economy
- > overarching mandate is to support securing the supply of critical raw materials to the European industry by driving innovation along the raw materials value chain
- leads and manages the European Raw Materials Alliance (ERMA)





Establish an agile and inclusive stakeholder consultation process



Support EU industrial policy to mitigate regulatory and financing bottlenecks



Set up a Raw Materials Investment Platform (RMIP) to help leverage investment in a pipeline of key projects



Foster a deeper strategic awareness, including public acceptance of and forward-looking perspective on the role of raw and advanced materials in the transition to the Green and Digital Economy



SAVE THE DATE

15 - 17 MAY 2023 THE EGG, BRUSSELS



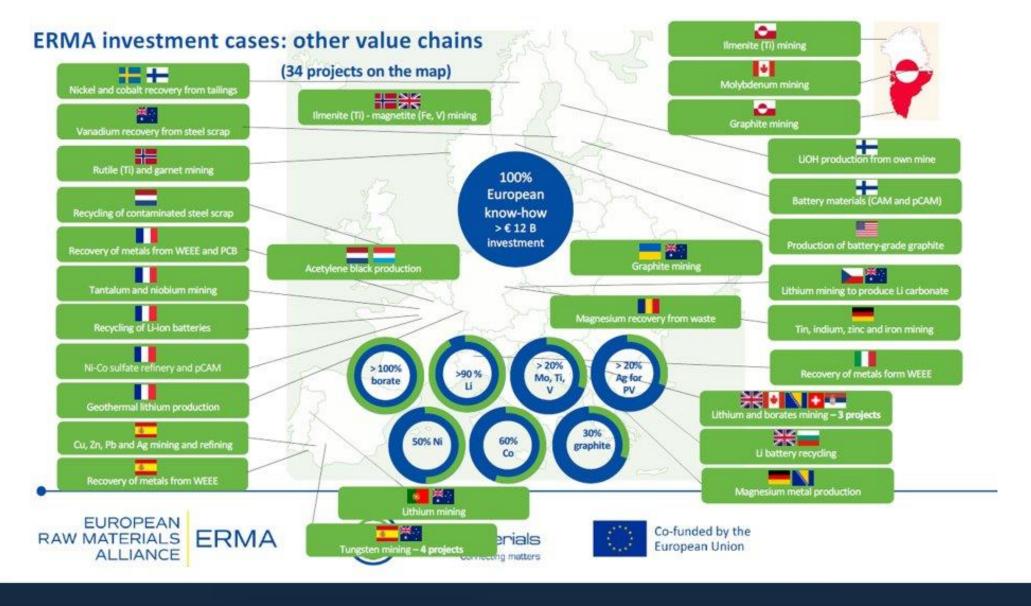
























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