



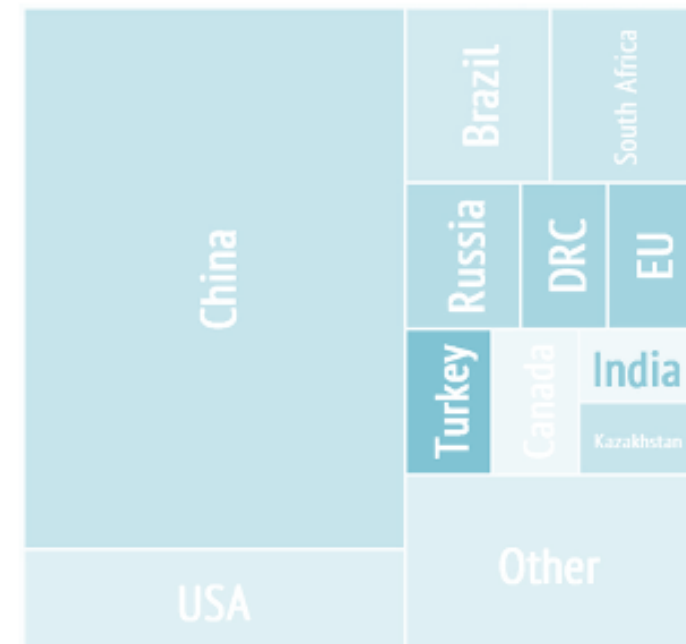
Le financement européen des initiatives minières en Afrique

Prof. Tshibangu J-P.

20 novembre 2025

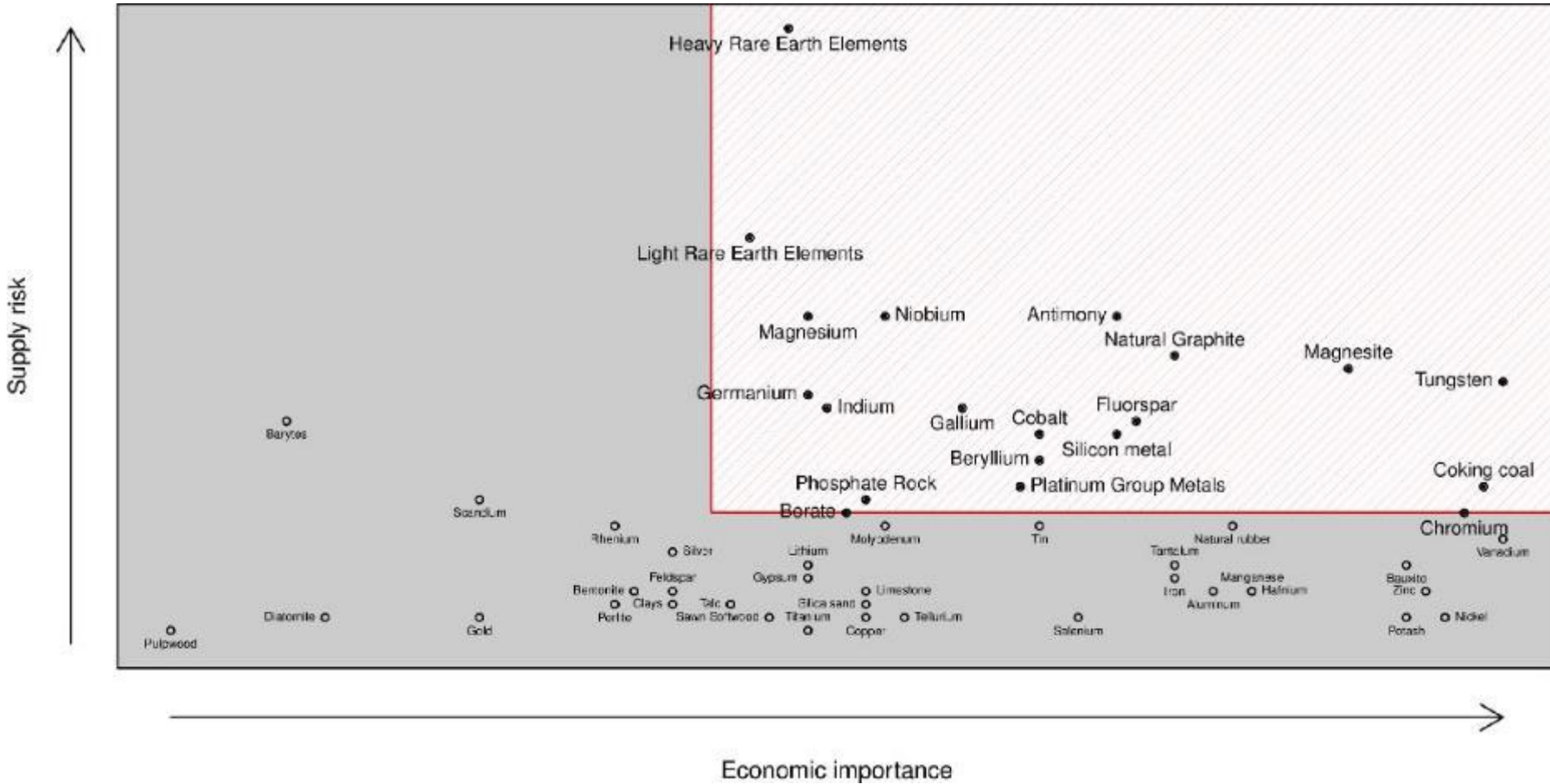
Compétitivité de l'Europe concernant les matières premières minérales

- EU is strongly dependant on raw material imports for metals, industrial minerals and fuels
- Critical Raw Materials (CRMs) = high economic importance to the EU + high risk associated with their supply
- 2010: Europe's dependancy on metal imports
 - 100% for antimony, cobalt, ilmenite, molybdenum, PGM's, rare earth elements, rutile, tantalum and vanadium
 - 70 to 90% for most other metals
- 2014 : update with 20 critical raw materials

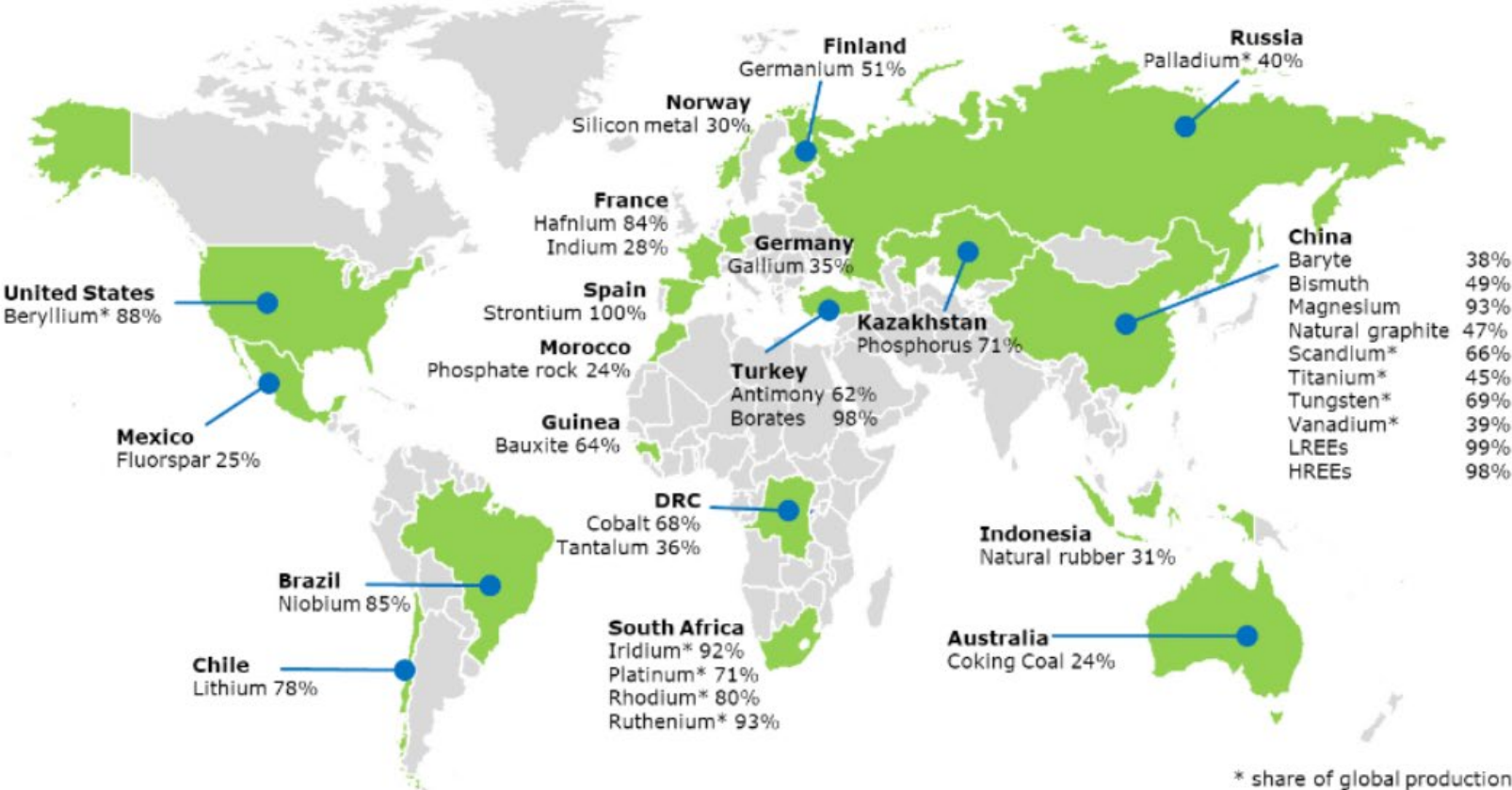


World primary supply of the 20 critical raw materials

Critical raw materials (CRMs)



Biggest supplier countries of critical raw materials to the EU



Source: European Commission, Study on the EU's list of Critical Raw Materials (2020)

The European Innovation Partnership (EIP) on Raw Materials

- Launched in February 2012
- Stakeholder platform that brings together representatives from industry, public services, academia and NGOs
- Global target (Strategic Implementation Plan): increasing the share of industry to 20 % of GDP by ensuring the sustainable supply of raw materials to the European economy
- How? Developing innovative solutions
 - Securing sustainable supply in primary and secondary raw materials
 - Avoiding any waste of key raw materials during their cycle of life (resource efficiency – recycling)
- **By 2020, the EU should become n°1 in the World for exploration, mining, processing, and recycling**

Raw Materials Initiative

- Part of the Societal Challenge 5: "Climate action, environment, resource efficiency and raw material
- 2 challenges for Europe:
 - Strong dependence on imports
 - Ensure security of supply of essential resources
- Aims :
 - Develop new production techniques of raw materials
 - Find at least 3 substitutes for critical and scarce minerals
 - Build a base of knowledge through Europe

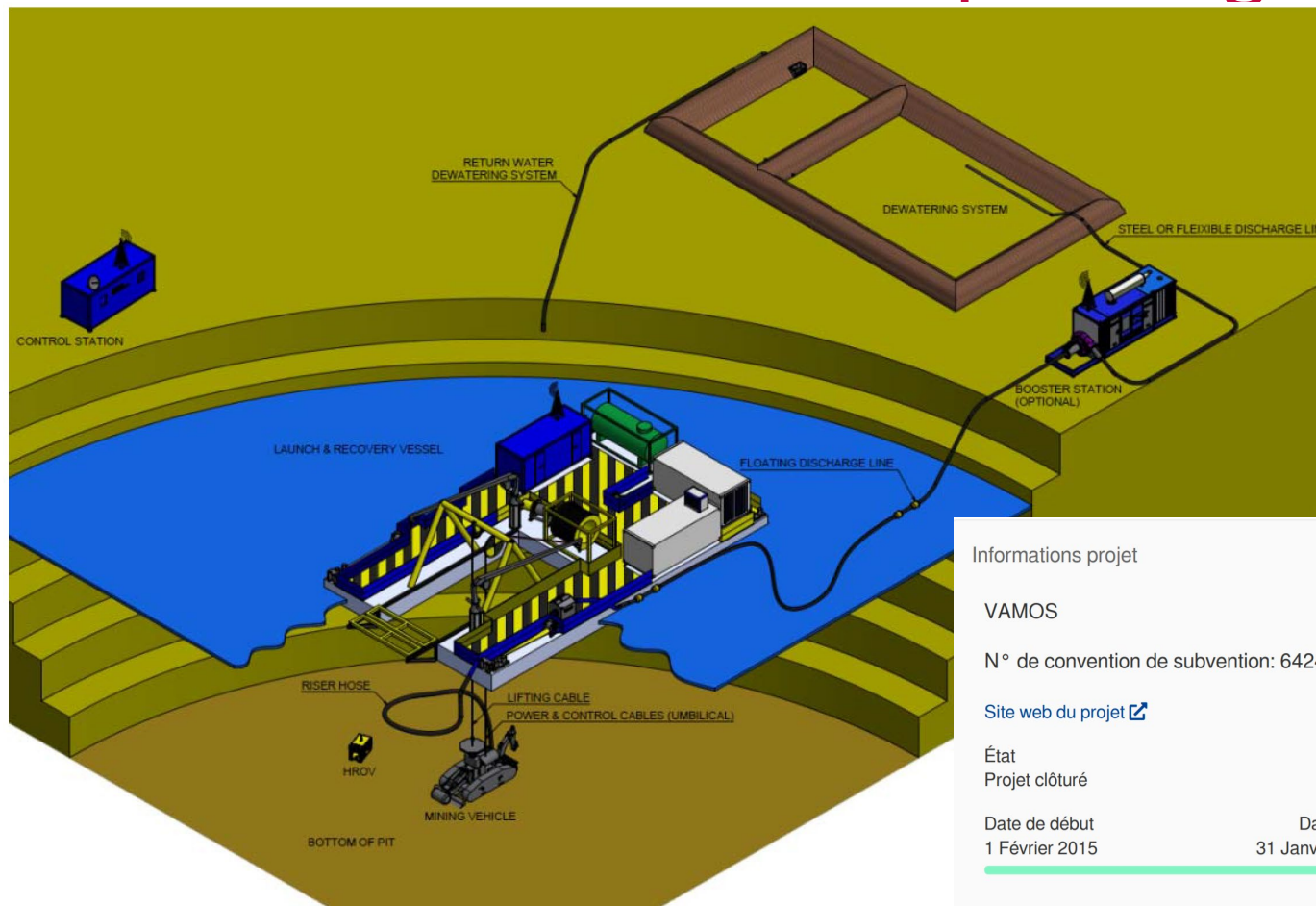
Budget : RMI~20.10⁹ € ; overall : 80.10⁹ €

PEI M.1ères – Quelques objectifs spécifiques

- Mettre en place des instruments statistiques européens normalisés afin de recenser les ressources et réserves, ainsi **qu'une carte géologique 3D** ;
- adopter un système de modélisation dynamique mettant en regard l'évolution de l'offre et la demande avec les réserves exploitables.
- mettre sur pied jusqu'à dix actions pilotes innovantes pour la prospection, l'extraction, le traitement, la collecte et le recyclage ;
- développer un réseau de centres de recherche, d'enseignement et de formation sur la gestion durable de l'exploitation minière et des matériaux ;
- Etc.

Exemple de projet RMI : VAMOS (2014)

iViable Alternative Mine Operating System!



Informations projet

VAMOS

N° de convention de subvention: 642477

Site web du projet [🔗](#)

État
Projet clôturé

Date de début
1 Février 2015

Date de fin
31 Janvier 2019

Financé au titre de
H2020-EU.3.5.3.

Budget total
€ 9 200 000

Contribution de l'UE
€ 9 200 000

Coordonné par
BMT GROUP LTD
🇬🇧 Royaume-Uni

Concept de mine immergée avec machine autonome travaillant sous eau

« EU Green Deal (déc. 2019) »

"Access to resources is also a strategic security question for Europe's ambition to deliver the Green Deal.

Ensuring the supply of sustainable raw materials, in particular of **critical raw materials** necessary for clean technologies, digital, space and defence applications, by diversifying supply from both primary and secondary sources, is therefore one of the pre-requisites to make this transition happen."

New EU Industry Strategy

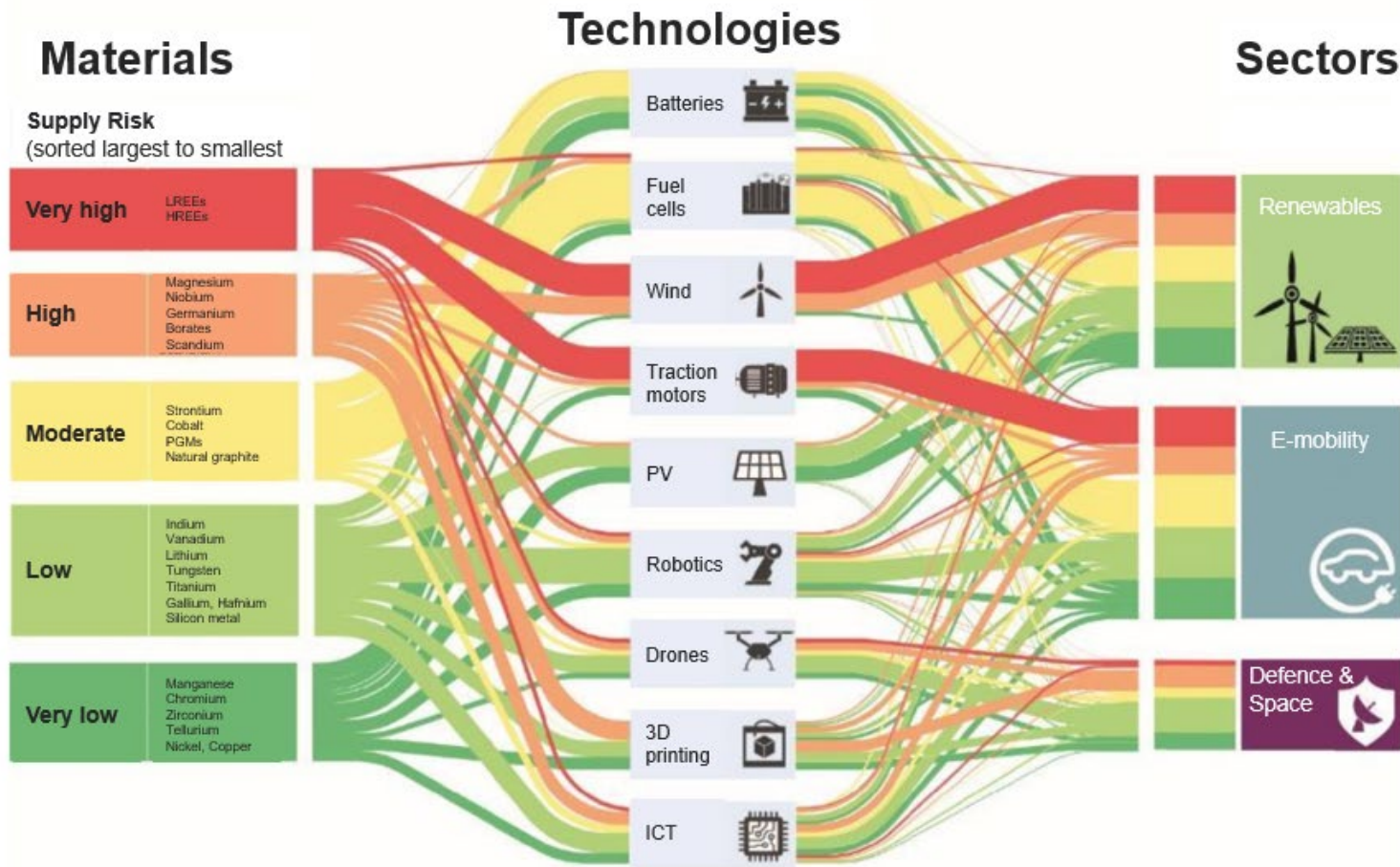
Communication "Updating the 2020 New Industrial Strategy: Building a stronger Single Market for Europe's recovery, COM(2021)

Staff working document - Strategic dependencies and capacities, SWD(2021) 352 final

*With the transition of Europe's industry to climate-neutrality, the **reliance on available fossil fuels will progressively be replaced with reliance on non-energy raw materials.***

2023: CRMA – Critical Raw Material Act

Criticité des ressources minérales

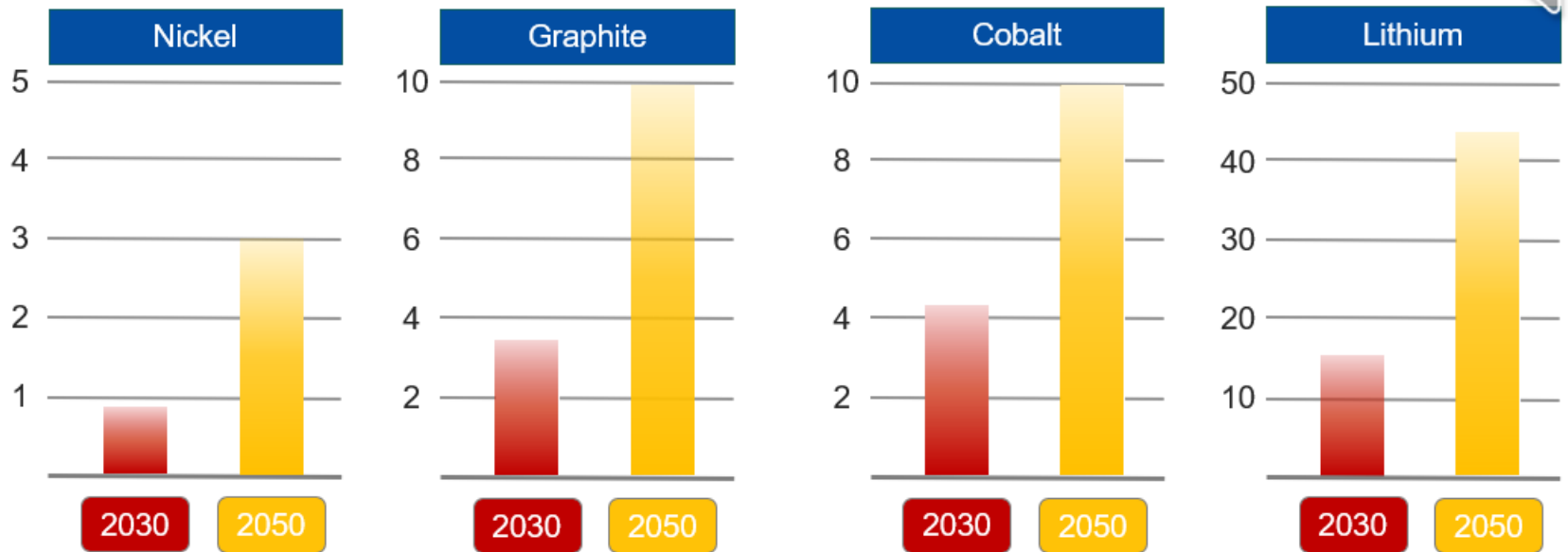


Source: European Commission, Critical materials for strategic technologies and sectors in the EU - a foresight study, 2020



Projection de la demande dans le futur

The demand for battery raw materials will increase



Source:

Critical Raw Materials for Strategic Technologies and Sectors in the EU; A Foresight Study.
Joint Research Centre, European Commission, 2020



EU Critical Raw Materials List 2020



Antimony	Hafnium	Phosphorus
Baryte	Heavy Rare Earths	Scandium
Beryllium	Light Rare Earths	Silicon metal
Bismuth	Indium	Tantalum
Borate	Magnesium	Tungsten
Cobalt	Natural Graphite	Vanadium
Coking Coal	Natural Rubber	Bauxite
Fluorspar	Niobium	Lithium
Gallium	Platinum Group Metals	Strontium
Germanium	Phosphate Rock	Titanium

2023: CRMA – Critical Raw Material Act

EU Call 2025 - Industry

Resilience and technological sovereignty priorities:

- contribute to the implementation of the Net-Zero Industry Act (NZIA) and the Critical Raw Materials Act (CRMA);
- reinforce Europe's position in digital technologies, high-performance computing, Artificial Intelligence, robotics, secure communication, virtual worlds, critical Space technologies, advanced and sustainable manufacturing technologies, net-zero industry, sustainable raw and innovative materials, and the circular economy.

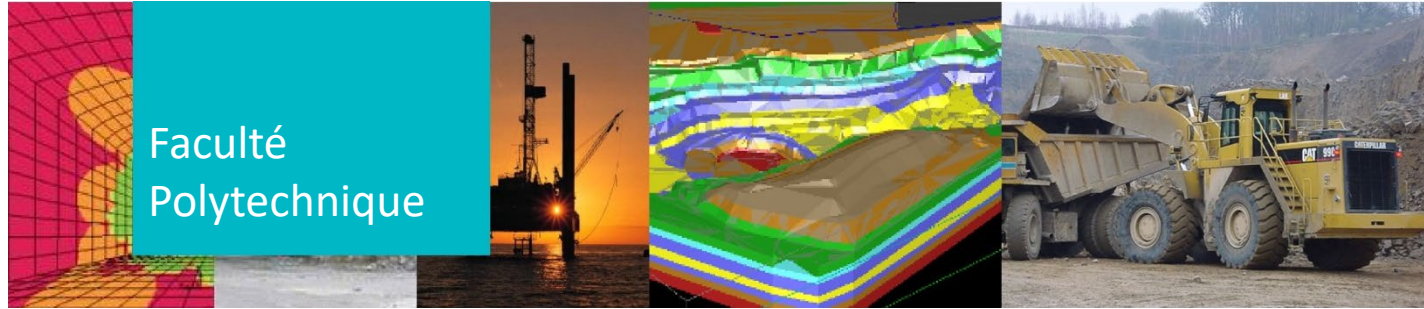
Cluster 4, 'Digital, Industry and Space' aims to shape competitive and trusted technologies for EU leadership in these technologies; to enable production and consumption respecting the boundaries of our planet.

This cluster will serve the goals of the Competitiveness Compass through substantial R&I investments, often complemented by private investments through partnerships, across different technology readiness levels; and by integrating technological, environmental and social objectives into innovation.

HORIZON-CL4-INDUSTRY-2025-01- MATERIALS-62:

Strategic Partnerships for Raw Materials:
Innovative Approaches for sustainable
production of Critical Raw Materials (IA)

- Total indicative budget : EUR 30.00 million
- Budget per project: EUR 7.50 million
- Collaborate with one selected Strategic Partnership country out of the four groups: Group 1 (Argentina, Chile), Group 2 (Democratic Republic of the Congo, Namibia, Rwanda, Zambia), Group 3 (Kazakhstan, Serbia, Uzbekistan), Group 4 (Australia, Greenland).



Merci pour votre attention



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