The Role of Critical Raw Materials in Achieving the Goals of the Paris Agreement in the UNECE Region

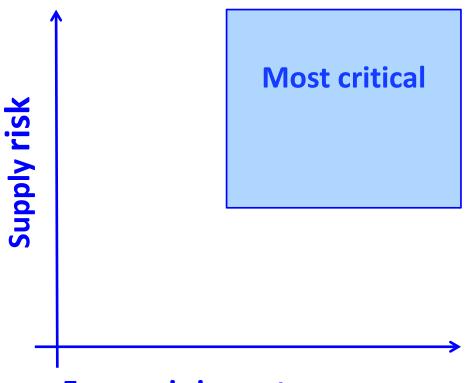
Why critical minerals are different and why they are not

Why minerals matter for the energy transition

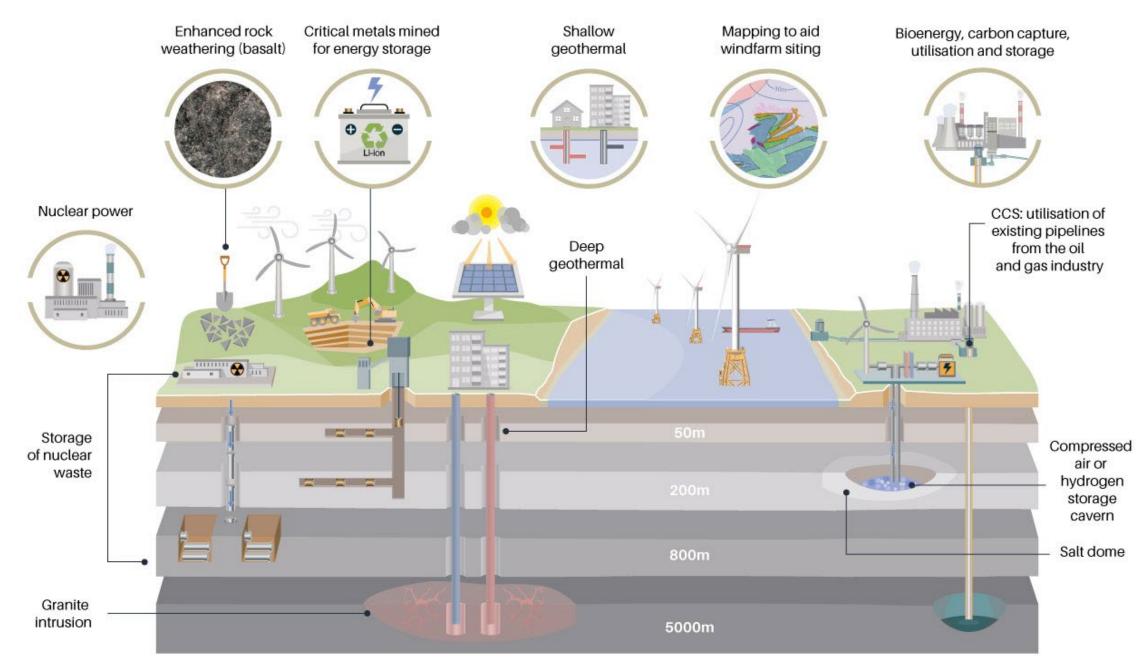
Why everything starts with a rock

What is criticality?

- Combines consideration of economic importance with vulnerability to supply disruption
- Can also take into account environmental and/ or ethical issues
- Assessed on a bloc-/ country-/ sector-/ company-specific basis



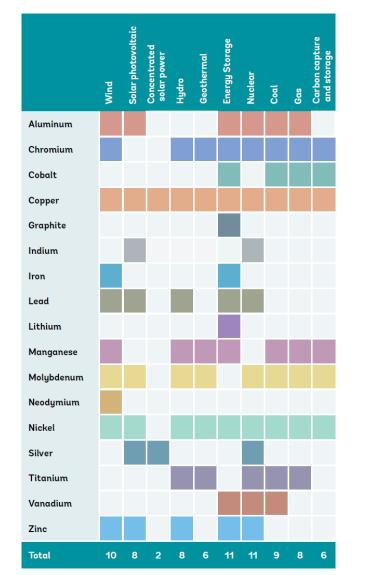
Economic importance

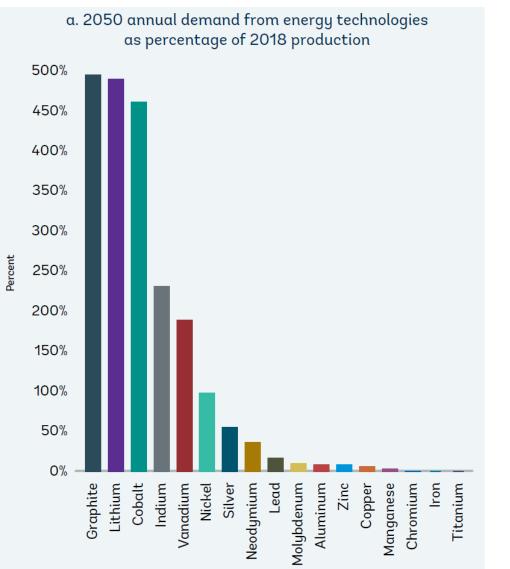


Source: British Geological Survey

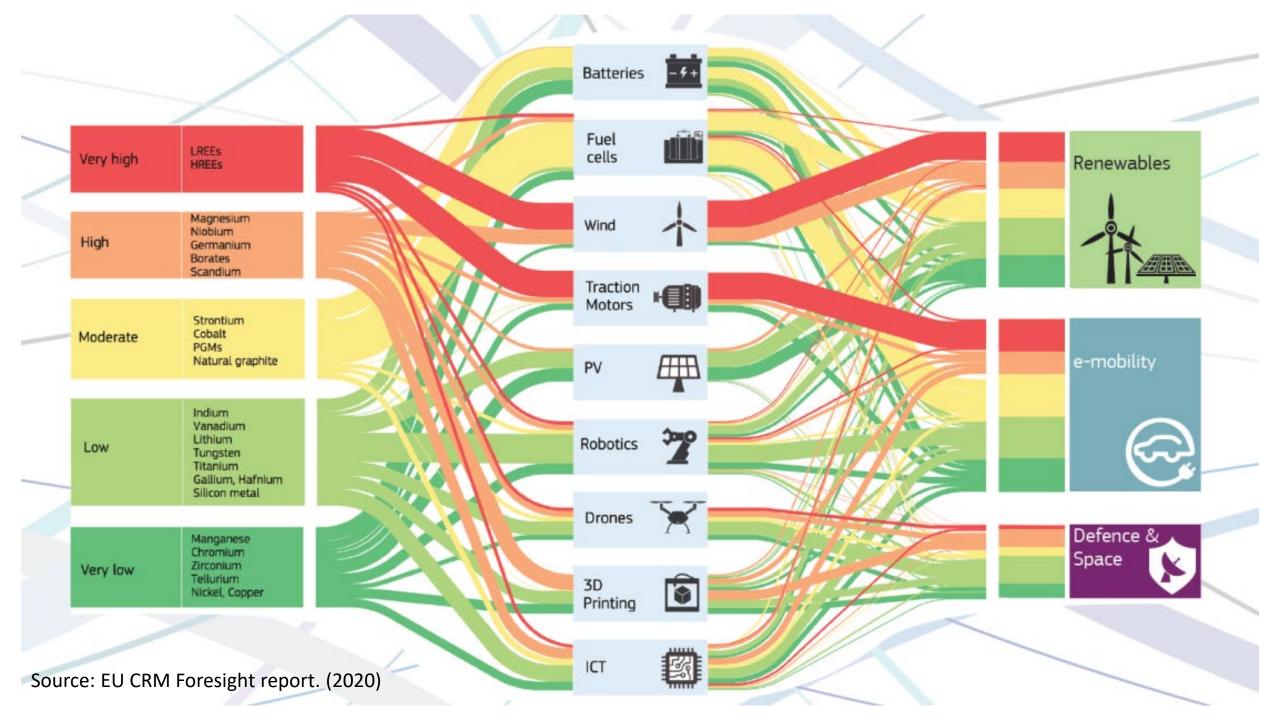
MINERAL DEMAND

Metals and minerals in the energy transition





Source: World Bank 2018 Report; Minerals for Climate Action: The Mineral Intensity of the Clean Energy Transition

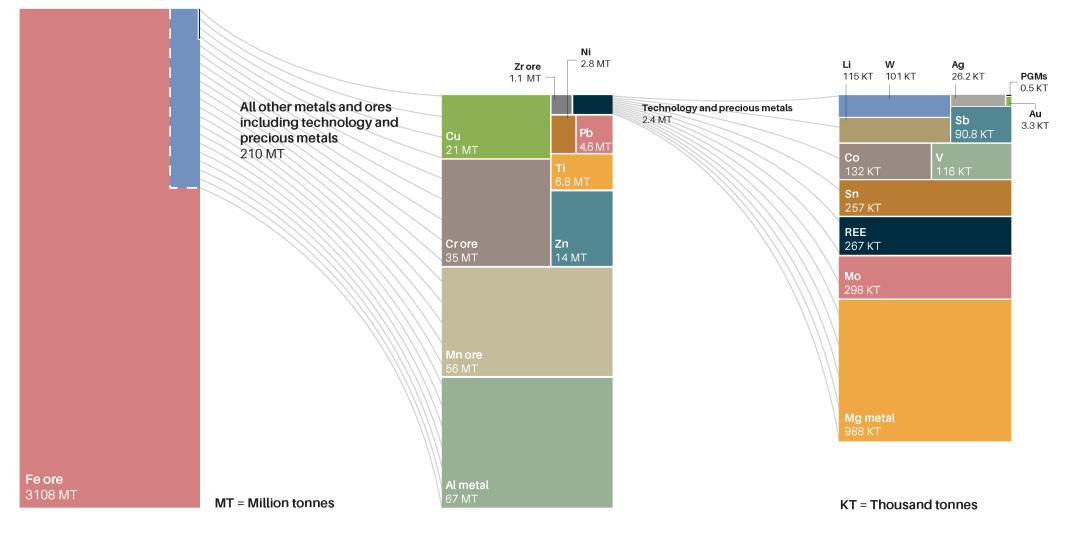


WHAT DO WE MINE?

All metals and ores

'Industrial' metals and ores

'Technology' and precious metals



Source: British Geological Survey

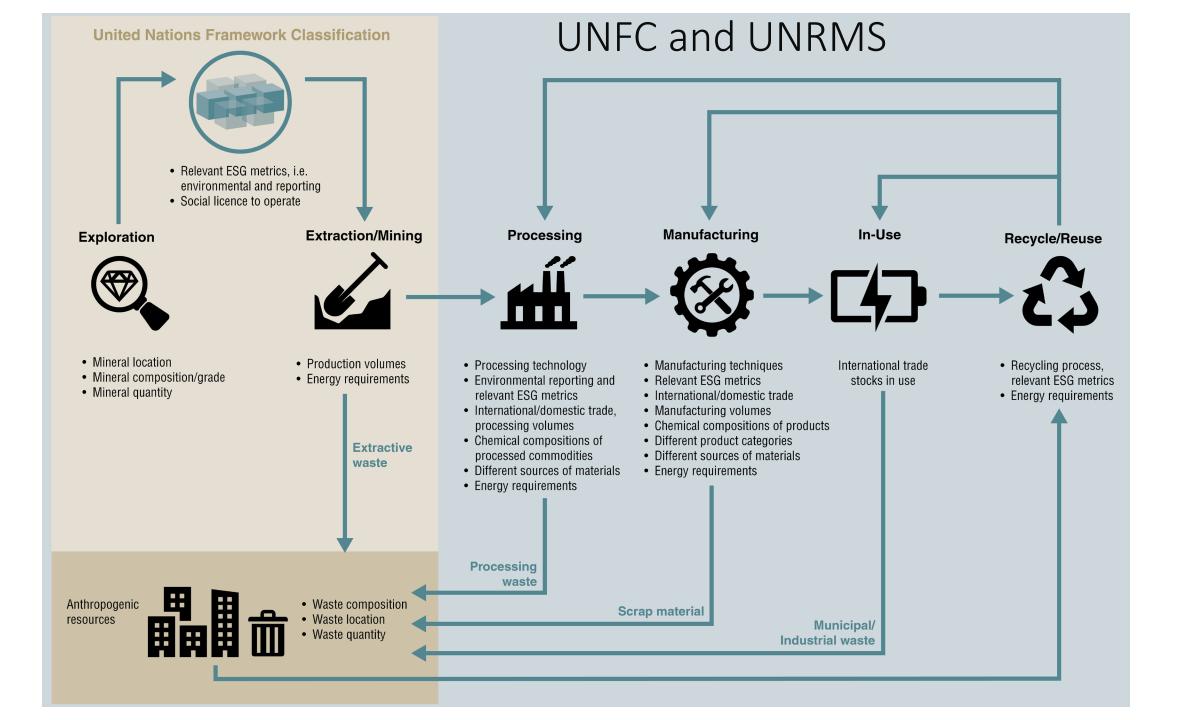
Can we manage without minerals for (clean) energy?

- 940 million (13% of the world) do not have access to electricity.
- 3 billion (40% of the world) do not have access to clean fuels for cooking.
- Per capita electricity consumption varies more than 100-fold across the world.
- Per capita energy consumption varies more than 10-fold across the world.
- Energy access is strongly related to income: poorer households are more likely to lack access.

What are we going to do and where do we get them?

- Manage them better/more sustainable consumption and more equality
- Recycling/circular economy
- Mining
- Understand resources from geology to supply chains





UNRMS Principles



State rights and responsibility in the management of resources



Responsibility to the Planet



Integrated and indivisible management of resources



Social contract on natural resources



Service orientation



Comprehensive resource recovery



Value addition



Circularity



Transparency



Innovation

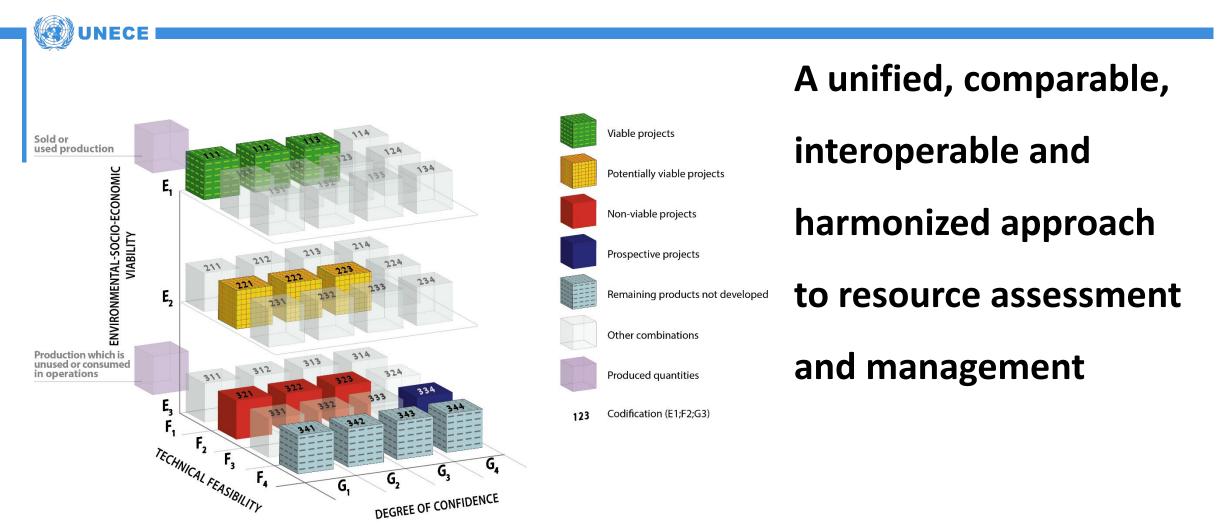


Health and Safety



Continous strengthening of core competencies and capabilities

United Nations Framework Classification for Resources (UNFC) and United Nations Resource Management System (UNRMS)







Thank you



UNFC and UNRMS

ENABLING SUSTAINABILITY PRINCIPLES IN RESOURCE MANAGEMENT

