

United Nations Framework Classification for Resources including case studies on anthropogenic resources and its provisions on the Critical Raw Materials Act proposal

Ulrich Kral, Slavko Solar, 28. June 2023



### EUROPEAN CRITICAL RAW MATERIALS ACT

COMMISSION'S PROPOSAL FROM 16 MARCH 2023 - COM(2023)160 FINAL

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

**Creating secure and resilient** supply chains

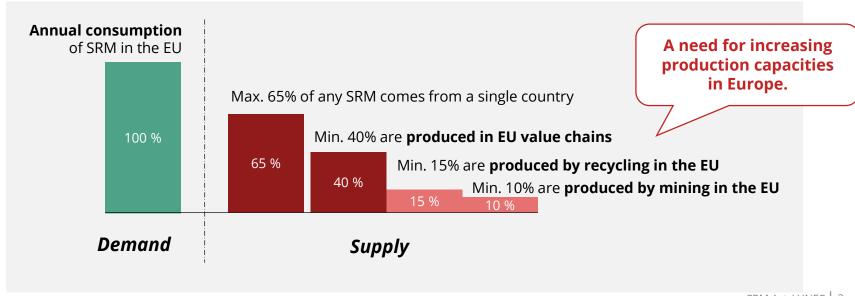
Supply risk preparedness and mitigation

Improving sustainability and circularity of CRMs on EU market **Diversifying the Union's imports of** raw materials



## **BENCHMARKS BY 2030**

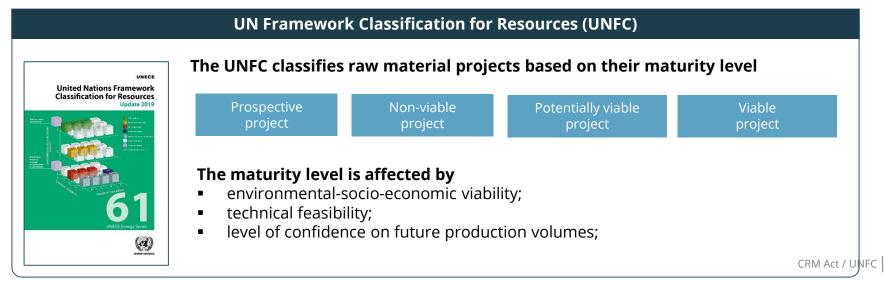
The Regulation sets clear benchmarks for **domestic capacities along the strategic raw material supply chain** and to **diversify EU supply by 2030**:





# SUSTAINABLE GROWTH OF PRODUCTION CAPACITIES

- > Increasing production capacities requires the **development of raw material projects**.
- > Stakeholders need reliable information for decision making.
- Information disclosure with the help of the **UN Framework Classification for Resources** (UNFC).





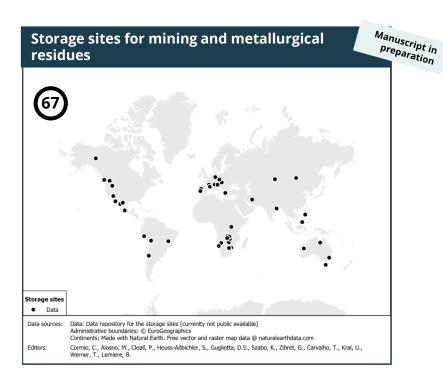
# UNFC IS APPLICABLE TO (RE)MINING & RECYCLING PROJECTS

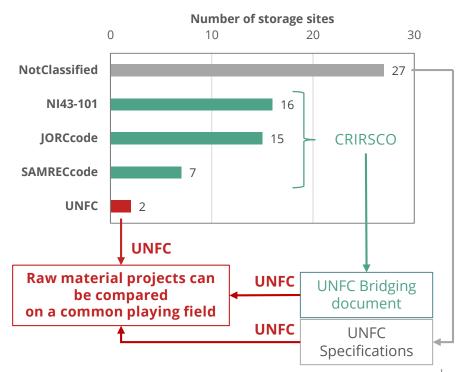


https://www.acs.org/education/whatischemistry/periodictable.html



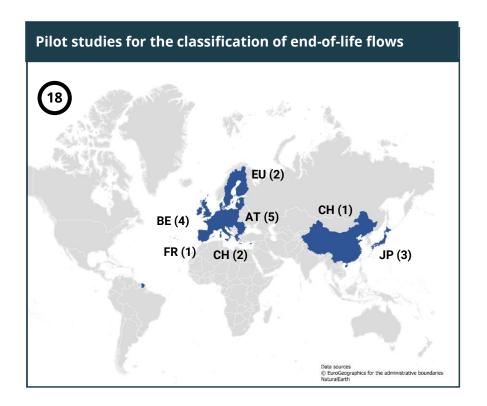
# (RE)MINING: MINING AND METALLURGICAL RESIDUES

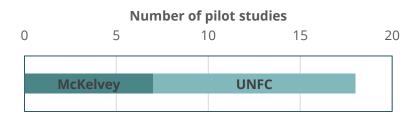


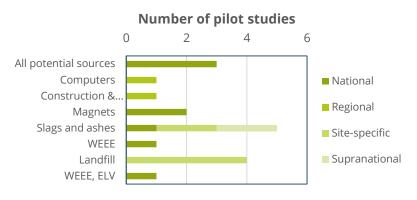




# **RECYCLING: END-OF-LIFE FLOWS**





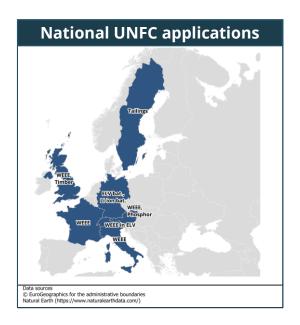


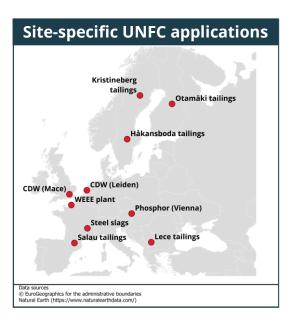


# FUTURE AVAILABILITY OF SECONDARY RAW MATERIALS

EU PROJECT, 2022-2026, www.futuram.eu







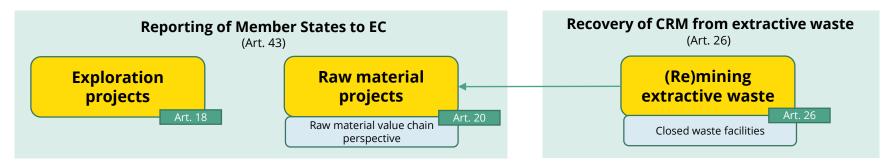
**Harmonized UNFC implementation** 

**Reporting standard including UNFC** 



## UNFC IN THE CRM ACT

# UNFC is considered in the CRM Act to disclose raw material information.



MS shall make the information on their **mineral occurrences** containing CRMs... **publicly available on a free access website**.

This information shall, where applicable, include the **classification of the identified occurrences using the UNFC**.

MS shall provide information on any new or existing raw material project on their territory.

Classification of **new projects according to the UNFC.** 

Operators obliged to submit waste management plans shall provide a **preliminary economic assessment study** to competent authority.

**Publicly accessible database** of all closed waste facilities with information such as

- quantities and concentrations of all raw materials contained in the extractive waste
- Where possible, a classification according to UNFC.



# STRATEGIC PROJECTS

#### **Criteria for recognition of Strategic Projects**

#### Contribution

the project would make a meaningful contribution to the security of the EU's supply of strategic raw materials;

#### **Feasibility**

the project is or will become technically feasible within a reasonable timeframe; production volume can be estimated

#### **ESG**

the project would be

implemented sustainably; prevention and minimisation of environmental impacts, use of socially responsible practices, use of transparent business practices with adequate compliance policies

#### **Shared benefits**

EU: cross-border benefits beyond the Member State Non-EU: mutual benefits for the EU and the third country, adding value in the third country;

#### **Benefits of selected Strategic Projects**

**Support for access to finance** 

**Shorter permitting timeframes** 





# CRM ACT: LEGISLATIVE PROCEDURE 1, 2, 3

#### **Act proposal** National, EESC, **Draft report** CoR opinion(s) Review and feedback from The European Commission EU Member States. drafts and proposes the Review and feedback from Committee of Regions, and Critical Raw Materials Act EU Member States, Economic Committee. and related legislation Committee of Regions, and Economic Committee. 16 March 2023 7 Sept 2023 2 Oct 2023 Committee **Plenary Trilogue** Adoption **Plenary vote** vote approval Review and feedback from **European Parliamentary** Informal trilateral meeting EU Member States. vote, with support of the between representatives of Committee of Regions, and Council and Commission the Parliament, the Council Economic Committee. and the Commission



# 5 TAKE-HOME-MESSAGES

- The CRM Act aims for a **secure and sustainable supply of critical raw materials** for the EU.
- The 2030 benchmarks require a **sustainable growth of production capacities** in the EU.
- The UNFC is considered to disclose information on raw material projects including recycling.
- Raw material projects, including **recycling**, can be recognized **as strategic projects**.
- Selected strategic projects will benefit from support for access to finance and shorter permitting timeframes.



# **CONTACT & INFORMATION**

Dr. Ulrich Kral

UNECE - Expert Group on Resource Management Chair of Anthropogenic Resource Working Group

Environment Agency Austria
Team Waste & Material Flow Management
ulrich.kral@umweltbundesamt.at

agement

Dr. Slavko Solar

**Economic Affairs Officer** 

Sustainable Energy Division

UNECE

slavko.solar@un.org

Weblinks

<u>European Critical Raw Materials Act</u>
UN Framework Classification for Resources

CRM Act / UNFC Frankfurt, 28. June 2023