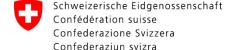




Towards a harmonized procedure & reporting standard for anthropogenic resources using UNFC

26. April 2023

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Swiss Confederation

Federal Department of Economic Affairs, Education and Research EAER State Secretariat for Education, Research and Innovation SERI

EU Framework Programmes









 Develop knowledge on the availability and recoverability of secondary raw materials (SRMs) within the EU with a special focus on critical raw materials (CRMs). From now to 2050.

 Enable fact-based decision-making for SRMs and CRMs exploitation in the EU+4 and third countries through UNFC applied to SRM recovery projects

Disseminate this information via a systematic and transparent SRMs
 Knowledge Base

FutuRaM - Waste Streams





BATTERIES



ELECTRICAL & ELECTRONIC EQUIPMENT



VEHICLES



SLAGS & ASHES



MINING WASTE CONSTRUCTION &



DEMOLITION &
WASTE



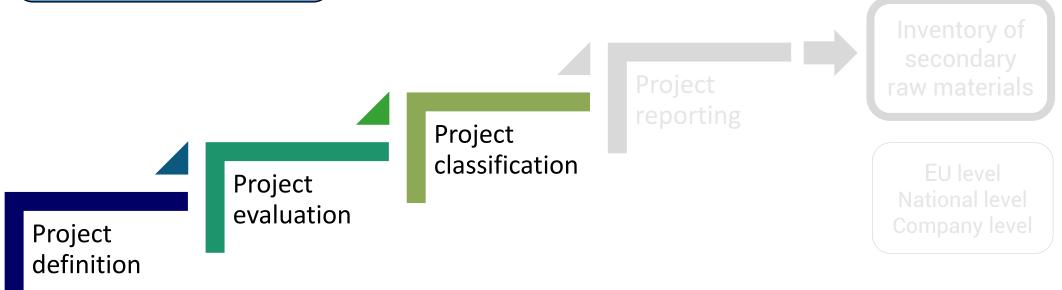


- Develop a methodology for assessing the availability and recoverability of SRMs with a particular focus on the future production of CRMs
- Assess and test the developed methodology through 19 case studies on company and at national level
- Compile a harmonized procedure for UNFC application for 6 different waste streams
- Present a reporting template for communicating the UNFC assessment results





Guidelines, reporting standards





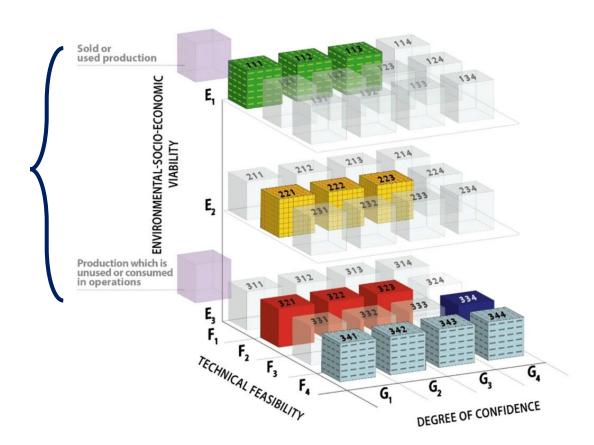
Recoverability of resources using UNFC

Economic viability

Environmental impact

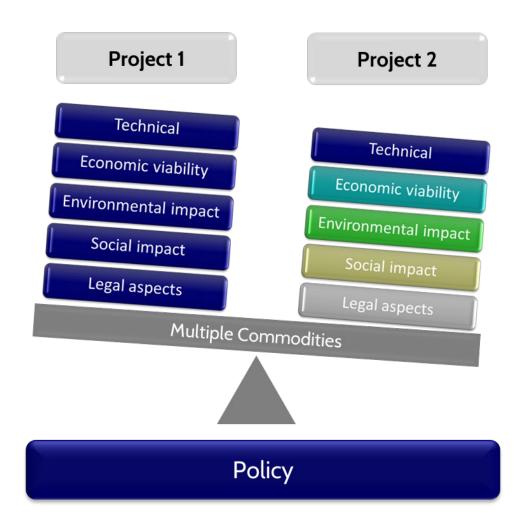
Social impact

Legal aspects



Recoverability of resources using UNFC

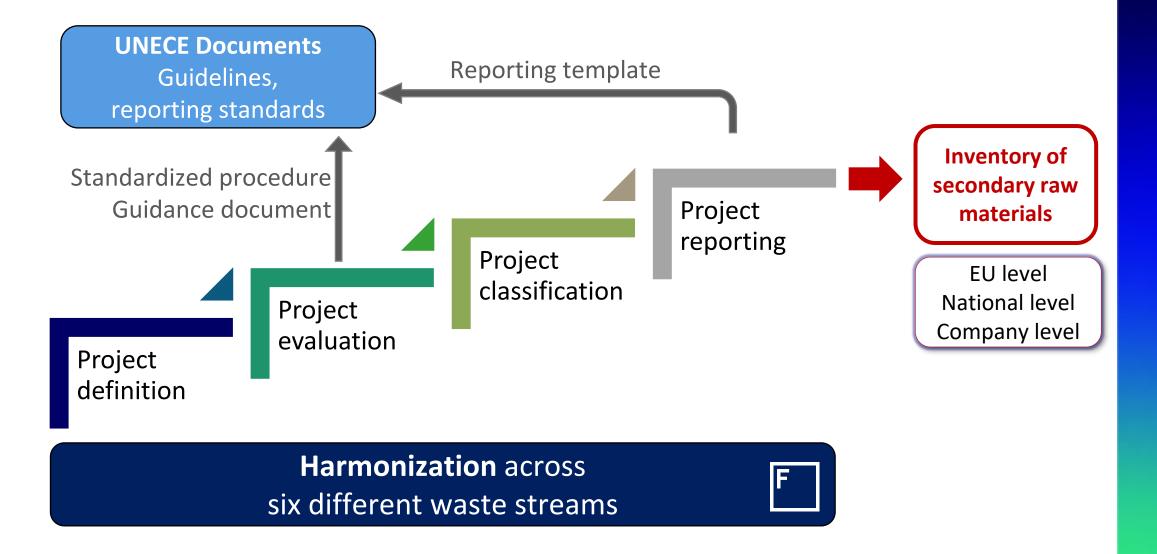




Consistency
Transparency
Comparability

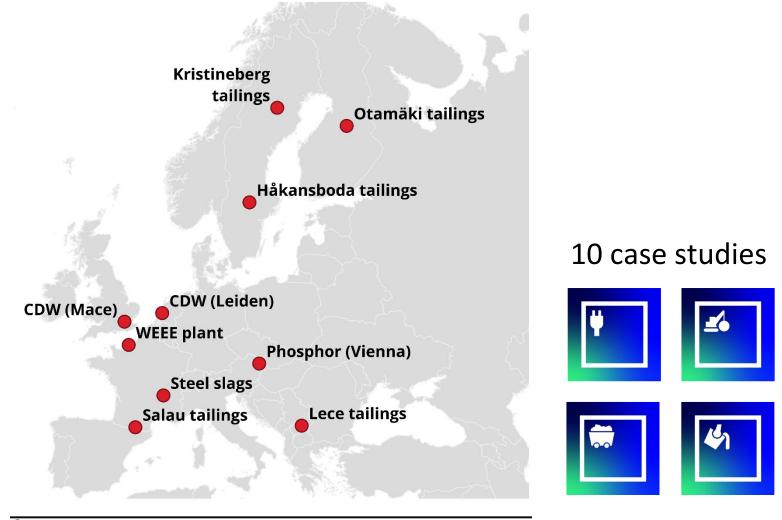
Development of the UNFC assessment tool





Site-specific and regional UNFC applications in FutuRaM



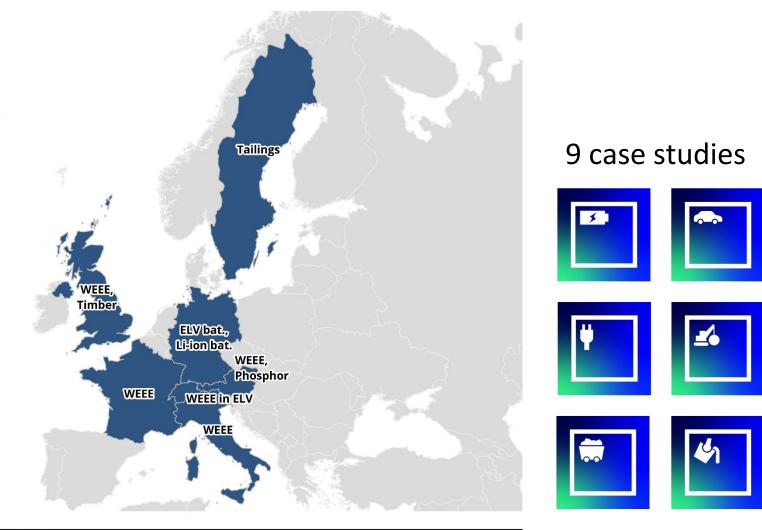


Data sources

[©] EuroGeographics for the administrative boundaries Natural Earth (https://www.naturalearthdata.com/)

National UNFC applications in FutuRaM





Data sources

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Roadmap for FutuRaM - UNFC

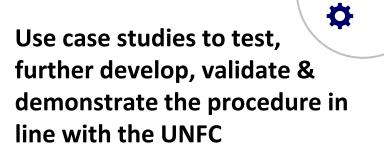


Development of a consistent procedure to assess & classify SRM recoverability in line with the UNFC



Initial phase

Draft reporting standard for the attention of the UNECE EGRM









UNFC provides a comprehensive tool to communicate the recoverability of raw materials from primary and secondary sources

- Communication basis for the different stakeholders
- Highlighting benefits and barriers of a project
- Knowledge base for fact-based decision-making

- 19 new UNFC case studies
- Guidance document for project evaluation
- Draft reporting template
- Recommendations for UNECE EGRM and EC





























































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