

GSEU DAY

Mapping and Managing Sustainable Geo-Energy Capacities in Europe

19 October 2023 | Brussels, Belgium

The United Nations Framework Classification for Resources (UNFC) Behind the Raw Materials

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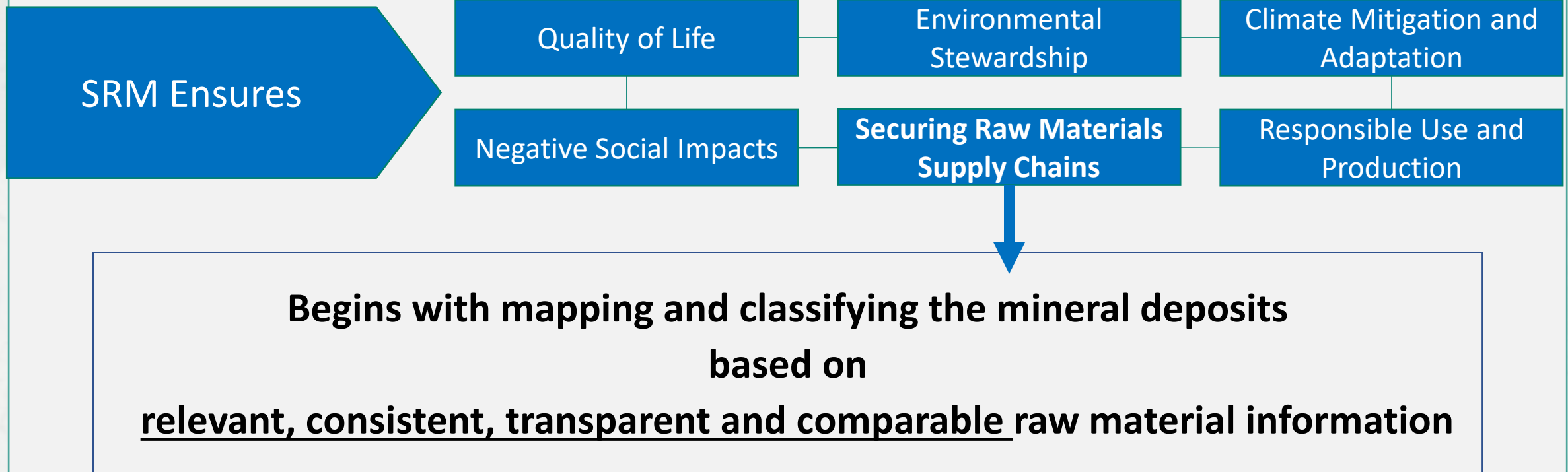


Sustainable Resource Management

Importance of Resources Classification

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Sustainable Resource Management (SRM) is critical to deliver the UN Agenda 2030 and its Sustainable Development Goals





The United Nations Framework Classification for Resources

UNFC

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UNFC is an international scheme for the classification, management and reporting of energy and raw material resources

UNFC is based on 3 fundamental criteria

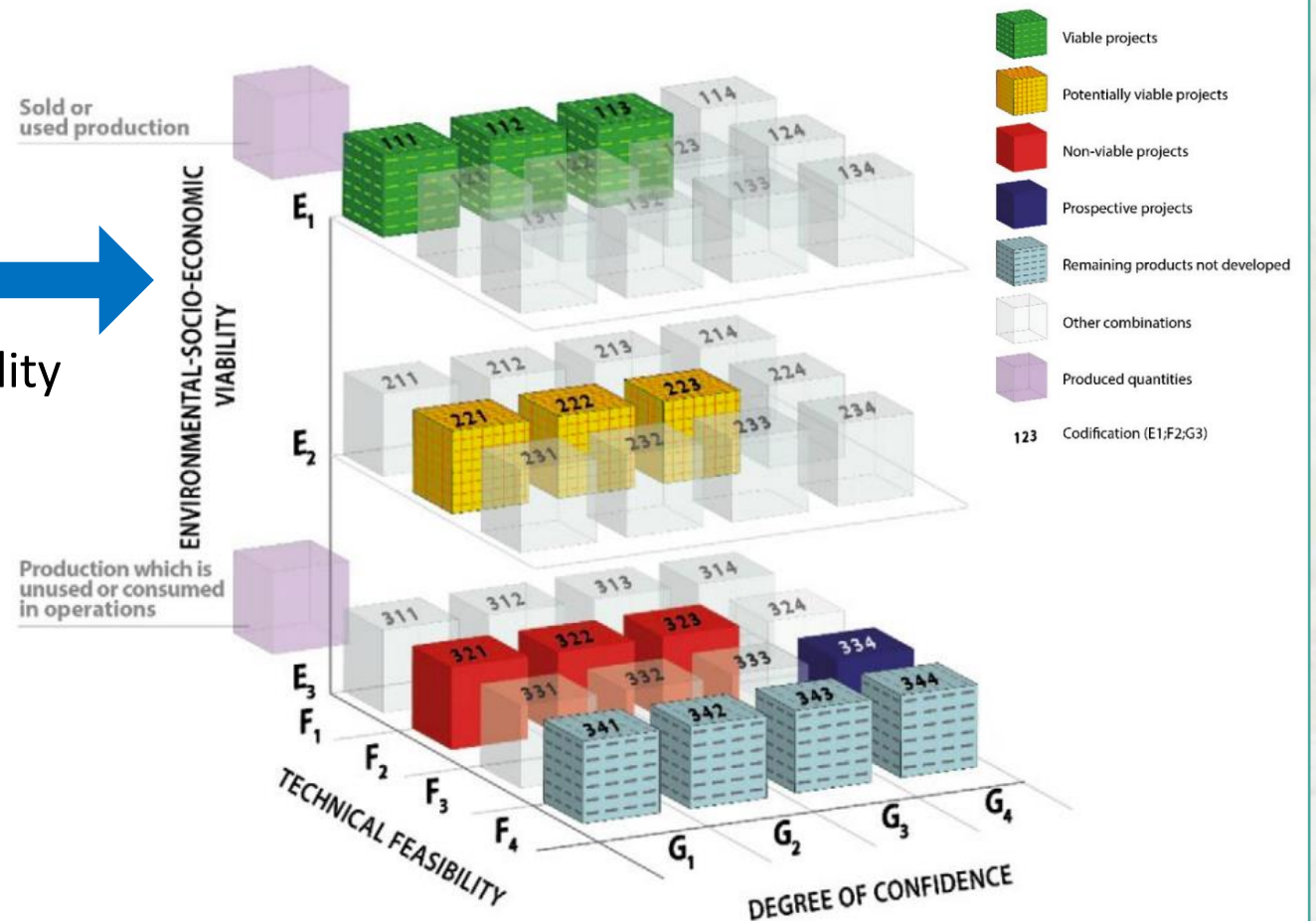
- **E axis:** Environmental-socio-economic viability
- **F axis:** Technical Feasibility
- **G axis:** Degree of Confidence

- 1. Definitions: Classification framework
- 2. Specifications: Application rules
- 3. Guidelines: Non-mandatory guidance

Principles

Rules

Guidelines





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UNFC Resource Specifications

Primary and Secondary Raw Materials

UNFC is applied to all energy and resources projects

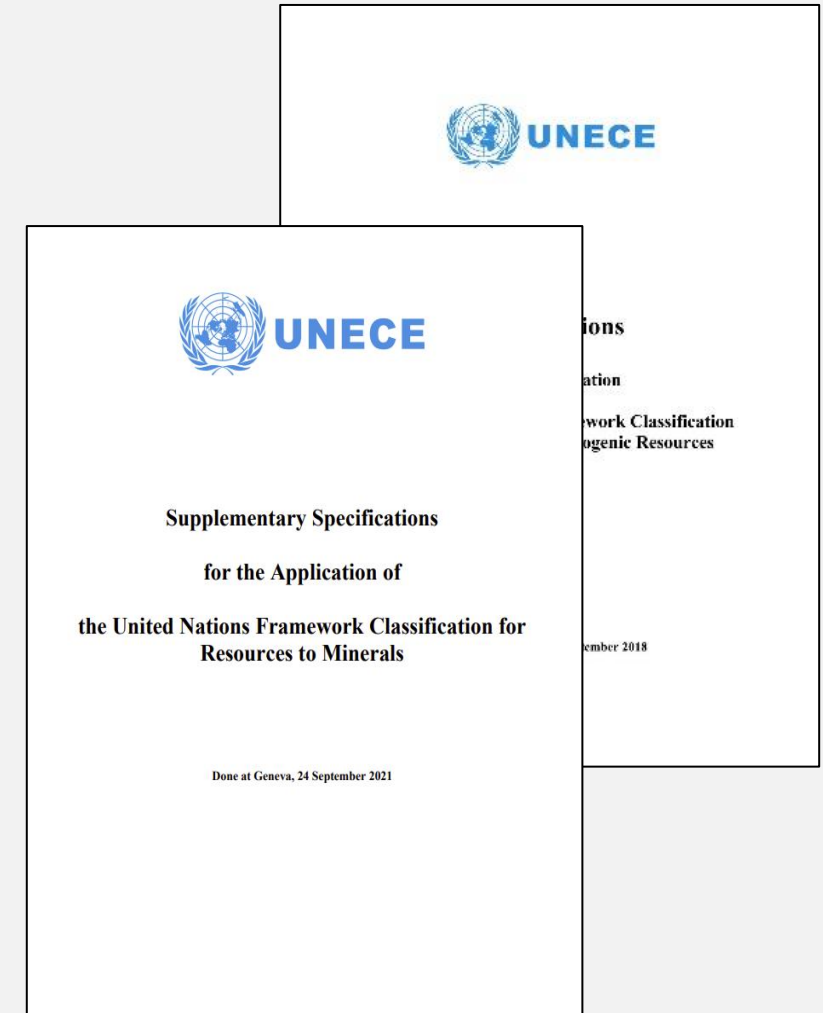
Specifications provide additional details as to how a resource classification system is to be applied, supplementing the framework definitions of that system

Minerals Specifications

Used to clarify for the correct application of UNFC and justification of the UNFC Category and/or Subcategory for a mineral project.

Anthropogenic Resources Specifications

Used for the correct application of UNFC in the context of the anthropogenic resource, material, project, process, and anthropogenic material system.





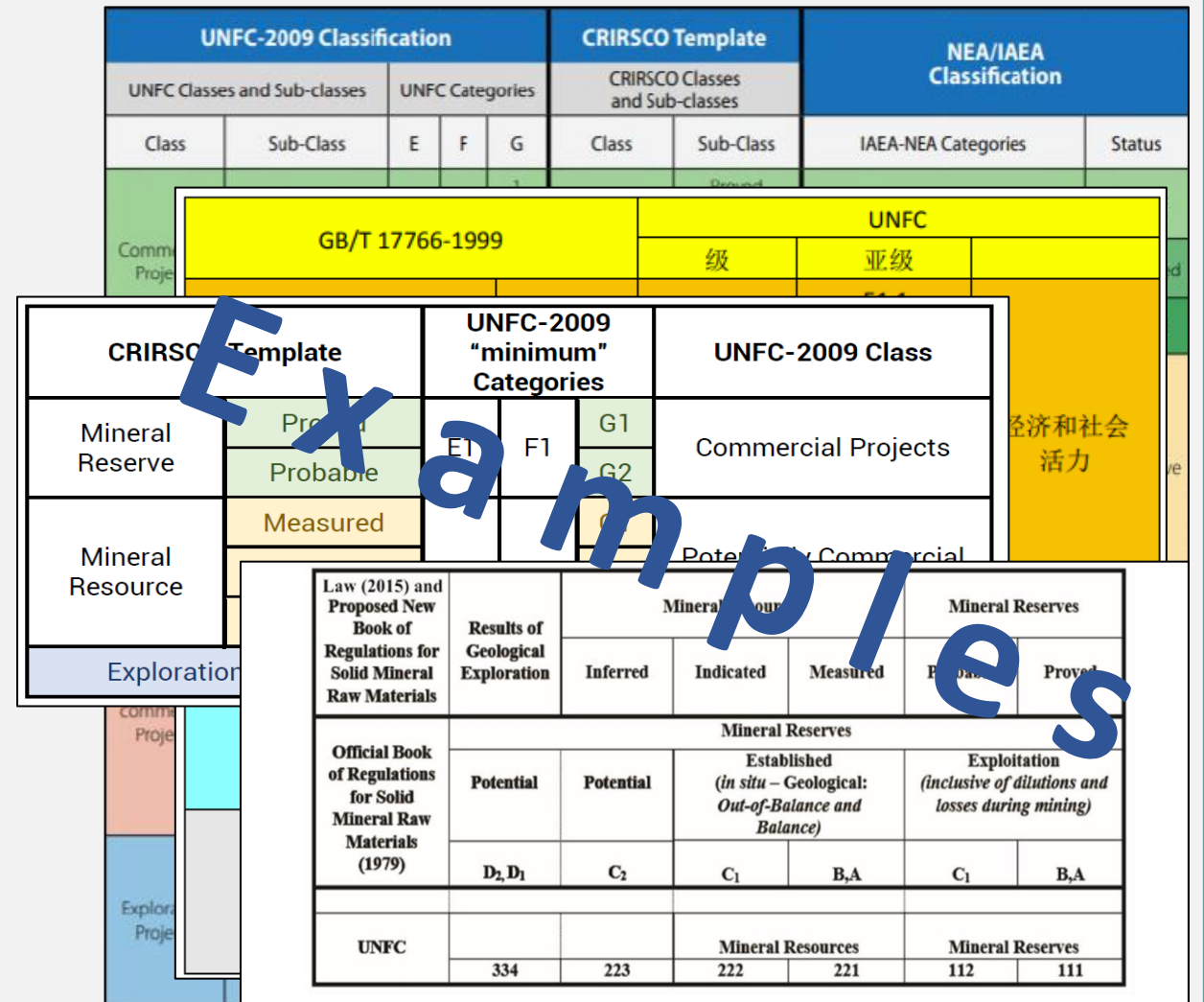
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UNFC Bridging Documents

Raw Materials

Aligned System - A classification system that has been aligned with UNFC as demonstrated by the existence of a **Bridging Document** that has been endorsed by EGRM

A document that explains the **relationship between UNFC and another classification system**, including **instructions and guidelines** on how to classify estimates generated by application of that system using the **UNFC Numerical Codes**





What is UNFC Guidance Europe?

Document for regional and national authorities to establish and maintain a project-based inventory of primary and secondary raw material projects (minerals and anthropogenic resources) in Europe using UNFC.

Whom is the UNFC Guidance Europe for?



Public-sector decision-making ranging from onsite, municipality, regional, country, European and the UN level on aspects of the resource life cycle



Economic management for planning and leading activities of management at all corporate levels



Finance investment decision making considering economic, environmental, and social aspects of raw material projects



In expertise, knowledge, and education



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UNFC Benefits



UNFC allows consistent comparison within and across multiple commodities



Globally deployed and endorsed by the UN ECOSOC for application



Simple to use
3 categories (E, F, G) lead to 3 basic classes (viable, potentially viable, non-viable).



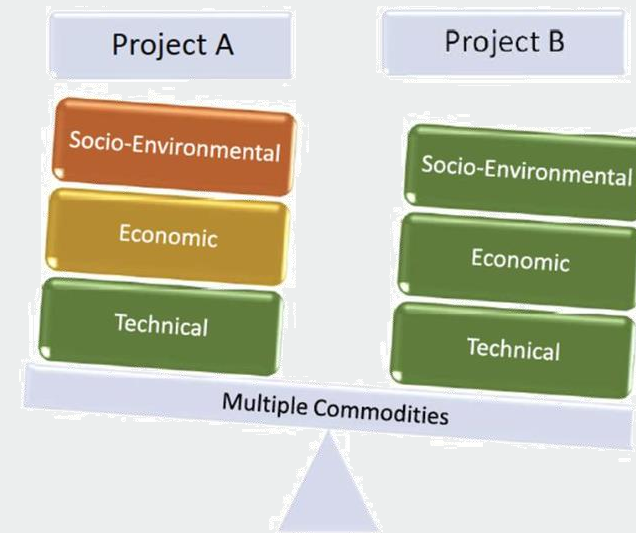
Combines all resources such as **energy, minerals and ground water** into one global classification system



Informs on **environmental, social and governmental issues** at **local, regional, and national level**

UNFC improves financial resilience through business process innovation

UNFC derives necessary social, environmental, and economic outcomes



UNFC speeds up decision-making, rendering it more rational, efficient, predictable, and safe. It makes information processing simpler as it integrates a resource management approach

A topographic map with various colors representing elevation and terrain, including greens, yellows, oranges, and blues. The map is partially obscured by a green horizontal band in the center.

EU Critical Raw Materials Act Proposal & UNFC Provisions



EU Critical Raw Materials Act Proposal

UNFC Provisions

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UNFC Provisions

UNFC Post-Enactment

Strategic Projects

Article 5: Criteria for recognition of Strategic Projects

UNFC is key in the recognition of Strategic Projects – **Project promoters** are required to classify their projects in **UNFC** for the **Strategic Project Application to the Commission**.

National Exploration Projects

Article 18: National exploration programmes

Member States will have to intensify their National Exploration Programs – **Exploration results are required to be reported in UNFC**

Risk Monitoring

Article 20: Information obligations for monitoring

New and existing projects are to be reported by the Member States to the Commission – **UNFC is obligatory for monitoring new projects**.

Extractive Wastes

Article 26: Recovery of critical raw materials from extractive waste

As part of National measures on circularity, CRM recovery from extractive wastes is encouraged – **UNFC is required when reporting on extractive waste facilities**.



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1. **UNFC Thematic Template with Strategic, Exploration, Monitoring, and Recycling modules**
2. **Workshops and Trainings – Capacity Building**
3. **National Guidance / Recommendations**

Consistent use across Europe

- UNFC Guidance on national level based on UNFC Guidance Europe
- National level Guidance
- Comparable between primary and secondary raw materials
- Simple procedures / evidence-based classification

Countries

- with national reporting - bridging
- without national reporting – template/form

Building on the experience:

- EU CRM database
- ERMA
- UNFC documents (UNFC2019, Specifications, Guidance ...)
- Bridging documents, national systems
- Promotion and capacity building

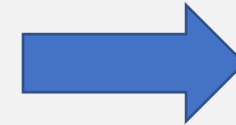
Coordination: DG GROW, UNECE, GSEU and Futuram

UNECE is Coordinating the UNFC activities on behalf of DG GROW



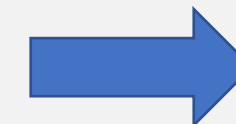


- 1. Collaboration and assistance is needed from all stakeholders, to ensure the success of the way forward and the action plan**
- 2. UNFC will steer raw material data collection in a consistent, transparent, and comparable manner. Useful for informed decision-making, resource development, and risk monitoring**
- 3. EU RM Template data collection to:**
 - Support the CRM-Act – For Member States and project promoters
 - Implemented within the projects – For volunteers and experts (Project data)
- 4. Project success is measured by the support and assistance to the EC, with relevant and helpful contributions**



Key focal points:

- Simple to fill
- No duplicates
- Data gaps avoided
- Harmony installed



- Extension of ICE
- Contribution to EU-wide data collection
- Support EU MS and CRM-Act

THANK YOU!

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