

The United Nations Resource Management System (UNRMS).

An overview.



Background and Structure.



The **United Nations Resource Management System (UNRMS)** is a global framework developed by the United Nations European Commission for Europe (**UNECE**) to guide the **sustainable and equitable use of natural resources**. It uses **12 key principles** for managing resources after classification using the **UN Framework Classification (UNFC)**. It is developed and directed by the **UNECE Expert Group on Resource Management (EGRM)**, is **voluntary** in its application and is **not a legal requirement**.

EGRM

**UNECE Expert Group on
Resource Management**

*“...subsidiary body of the **UNECE Committee on Sustainable Energy** responsible for **promoting and further developing the United Nations Framework Classification for Resources (UNFC)** and the **United Nations Resource Management System (UNRMS)**”*

UNFC

**United Nations
Framework Classification**

*“...**globally applicable standard for classifying resource projects based on their environmental, social, and economic viability, technical feasibility, and confidence in estimates**. UNFC covers various activities such as minerals, petroleum, renewable energy sources, nuclear resources, anthropogenic resources, geological storage, and groundwater.*

UNRMS

**United Nations Resource
Management System**

*“... **comprehensive resource management system that builds on UNFC** and provides a **framework for integrated and sustainable resource management**. UNRMS aims to help countries, organisations, and companies **address sustainability challenges and advance the Sustainable Development Goals (SDGs)**.”*

Why is it useful?

Today's resource challenges—**climate change**, **overconsumption**, **policy fragmentation**—can't be solved in isolation.

The **UNRMS** offers a **systems-based approach** that:

- Integrates **social, environmental, and economic** dimensions of resource use.
- Applies **circular thinking** — from discovery and use to reuse and regeneration.
- Supports **coherent, cross-sectoral decision-making**.

It's designed for **all resource types**:

- **Natural** (minerals, energy, water, bioeconomy) and **anthropogenic** (e-waste, construction materials, etc.)
- **Not prescriptive** — it's a **voluntary, flexible framework** for countries, companies, and communities.



The 12 key principles.

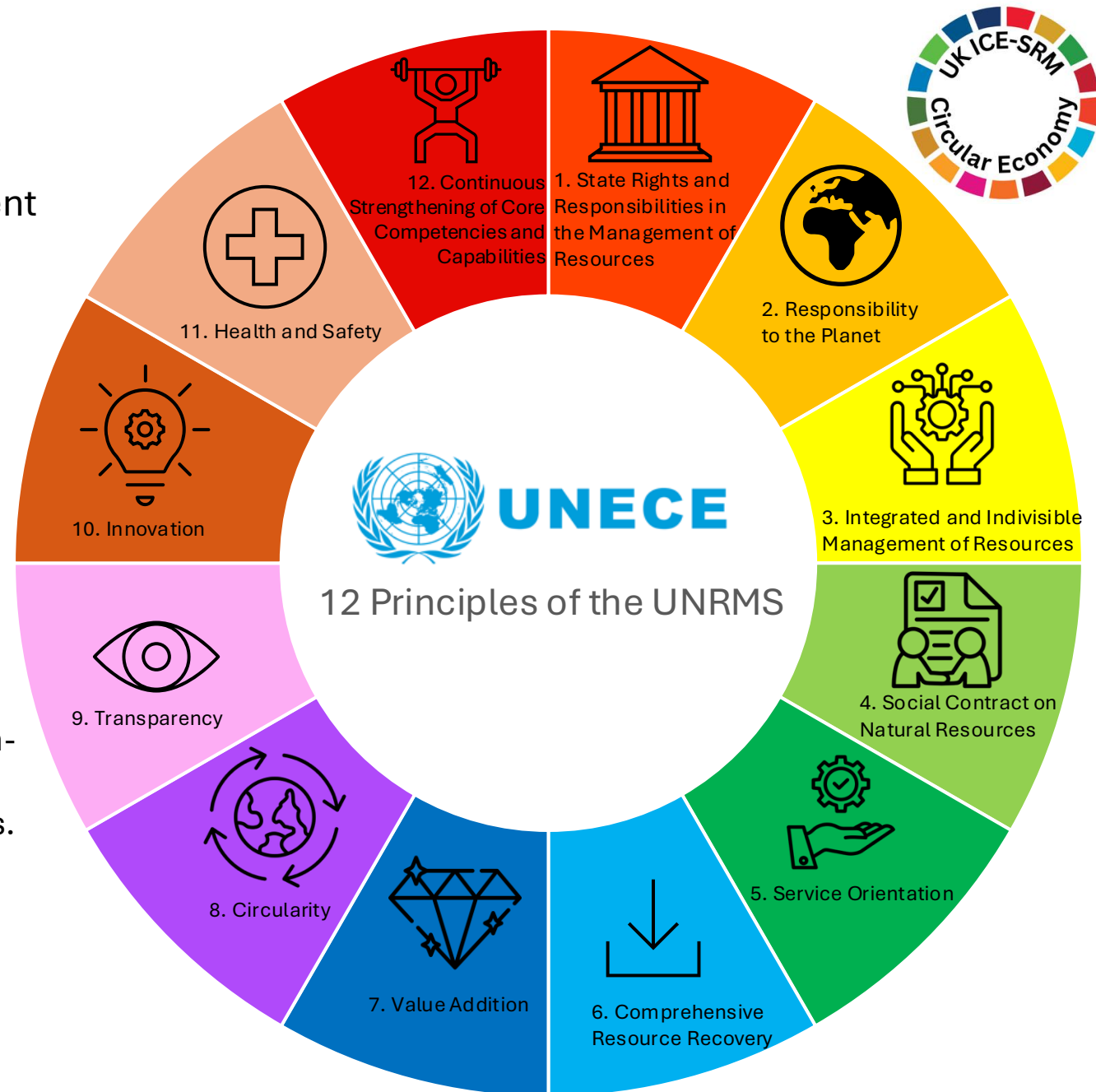
Core Principles for Sustainable Resource Management

The UNRMS is structured around **12 principles**, which- if applied - could guide the integrated and sustainable management of all natural resources. These principles are derived from the **UN Framework Classification for Resources (UNFC)** and reflect a shift towards **holistic, systems-based thinking**.

They promote:

- Full **lifecycle management** of resources.
- A **circular approach** that minimises waste.
- **Transparency, inclusivity, and accountability** in decision-making.
- Alignment with social, environmental, and economic goals.
- Continuous **innovation** and capacity building.

These principles form the core of the UNRMS toolkit, ensuring that resource use is responsible, equitable, and aligned with long-term sustainability goals.



Tools and Functional Components of the UNRMS.



UNRMS offers a **structured toolkit** to support transparent and integrated decision-making in resource management. It is designed to be used **across sectors, scales, and resource types**. Sometimes known as the ‘**Swiss army knife**’ of resource management.

Key components include:

- A **common language and terminology** for consistency across stakeholders.
- Tools for **resource classification, monitoring, and reporting**.
- Alignment with **UNFC structures** and national/regional planning frameworks.
- A focus on **systems thinking** and **cross-sector collaboration**.
- Support for **data-informed choices** at policy, programme, and project levels.

These components work together to guide decisions that are consistent with sustainability goals, while allowing flexibility to adapt across different contexts.





Applications of the UNRMS

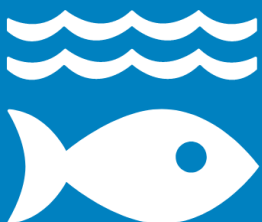
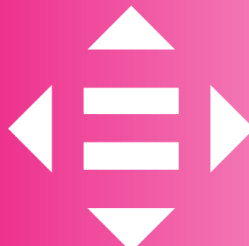


The UNRMS seeks to align resource-related decisions with sustainability goals - like the 2030 SDGs - through principles, keeping consistency through using classification outlined in the UNFC while utilising lifecycle and circular approaches.

It is intended for use across:

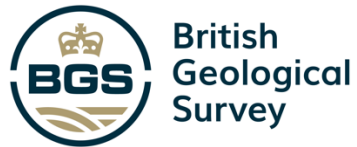
- **Governments:** Strategic policy, planning, legislation, resource inventories, and SDG integration.
- **Industry:** Lifecycle-based project development, ESG performance, and circular economy practices.
- **Investors/Finance:** Risk analysis, ESG disclosures, sustainable investment decisions.
- **Civil Society:** Transparency, accountability, stakeholder inclusion.
- **Academia:** Research, innovation, education, modelling, and capacity building.

This promotes collaboration through public, private and civil society partnerships. With increased use, the system becomes more dynamic and fit for purpose.





Institution



Area of Expertise

Critical raw materials, mining, mapping circular resource flows.

Subsurface resource data, material flow analysis, long-term modelling.

Construction materials, governance, public policy, socio-economic frameworks.

Metallurgy, solidification science, recycling, lifecycle design for circular economy.

Materials science, process engineering, renewable technologies.

UNRMS Themes

Resource classification, lifecycle thinking, circular economy.

Inventory building, forecasting, data-informed decision-making.

Principles-based policy design, stakeholder inclusion, just transition.

Circularity, materials innovation, lifecycle resource efficiency.

Technology development, sustainable supply, clean energy transitions.

Example Resources / Sectors

Lithium, copper, rare earth elements, mine tailings, products and materials.

Groundwater, hydrocarbons, minerals, geothermal energy.

Construction products, land access, energy justice, water rights.

Light metals, recycled metals, casting by-products.

Solar PV materials, hydrogen, steel, smart composites.