Knowledge management
at the
EC Raw Materials Information System (RMIS)

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Unit D3 Land Resources

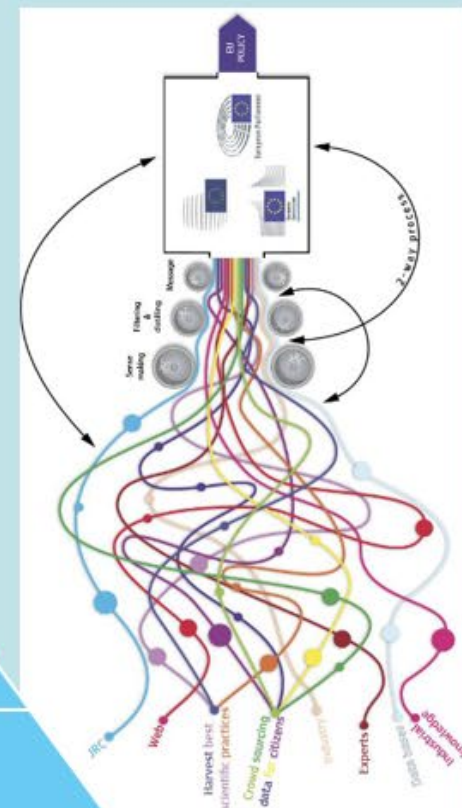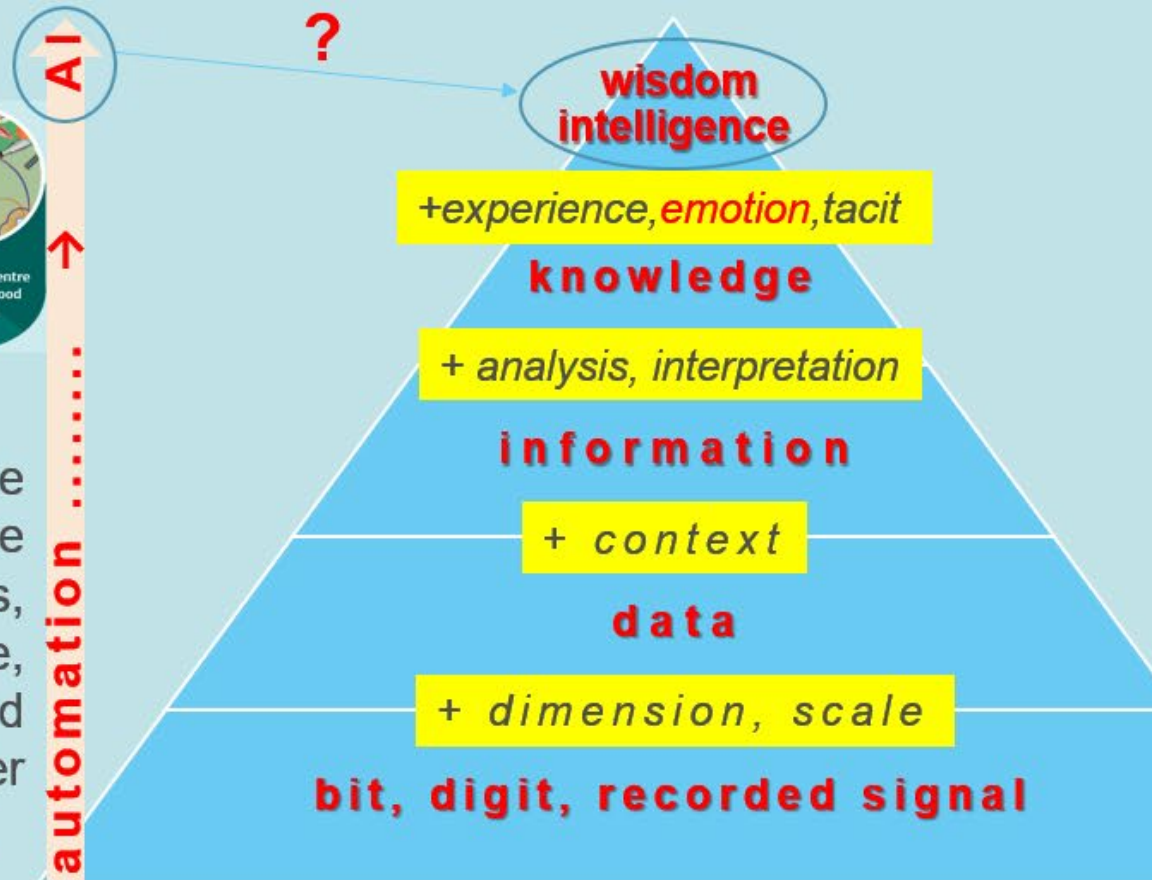*EC Joint Research Centre*

Outline

- JRC & RMIS role in raw materials related knowledge management

- Current ways of integration

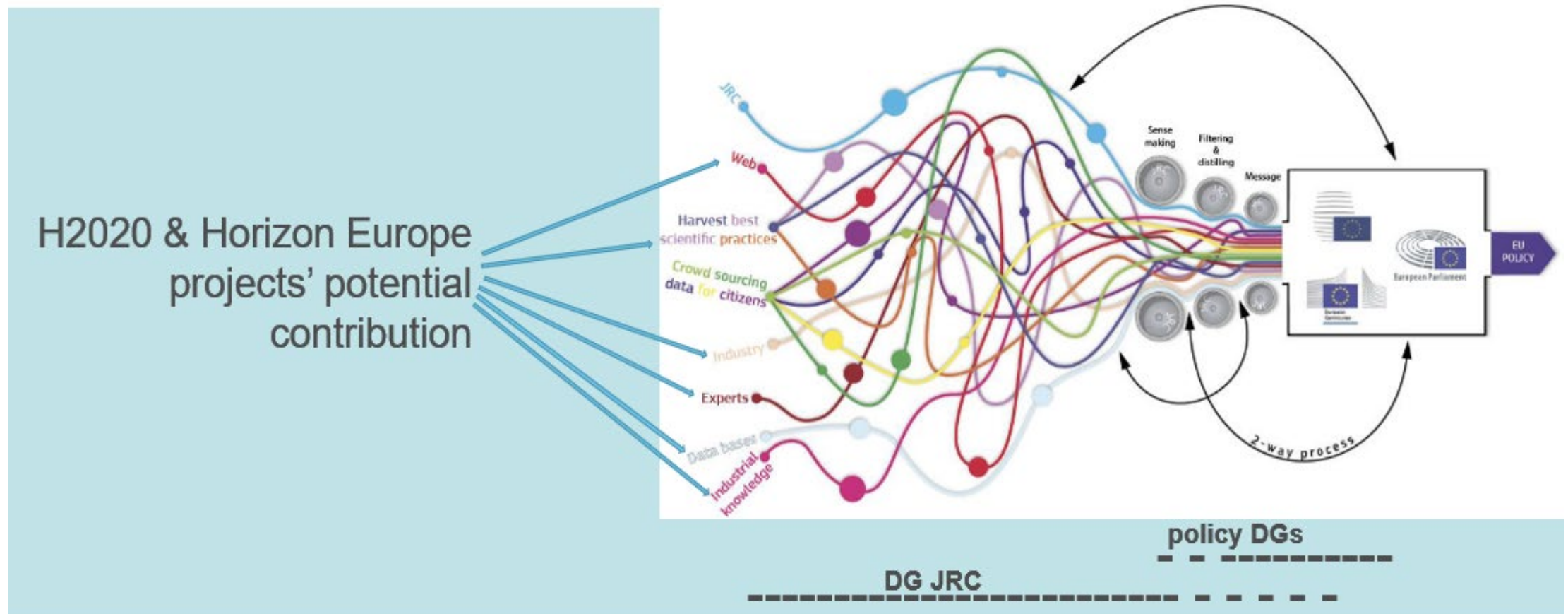- Future ways of integration & co-operation

- Concluding remarks

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JRC & RMIS
ROLE IN KNOWLEDGE MANAGEMENT

JRC & RMIS & H2020 PROJECTS
ROLE IN KNOWLEDGE MANAGEMENT

RMIS BASICS

Established: in 2015

Mandate: Circular Economy Action Plan, numerous more references in EC policy documents

Developed & operated by: JRC D3 Land Resources Unit, Raw Materials Team (15+ experts)

Structure: 12 chapters, 40 subchapters, numerous dynamic applications and more sub-subchapters
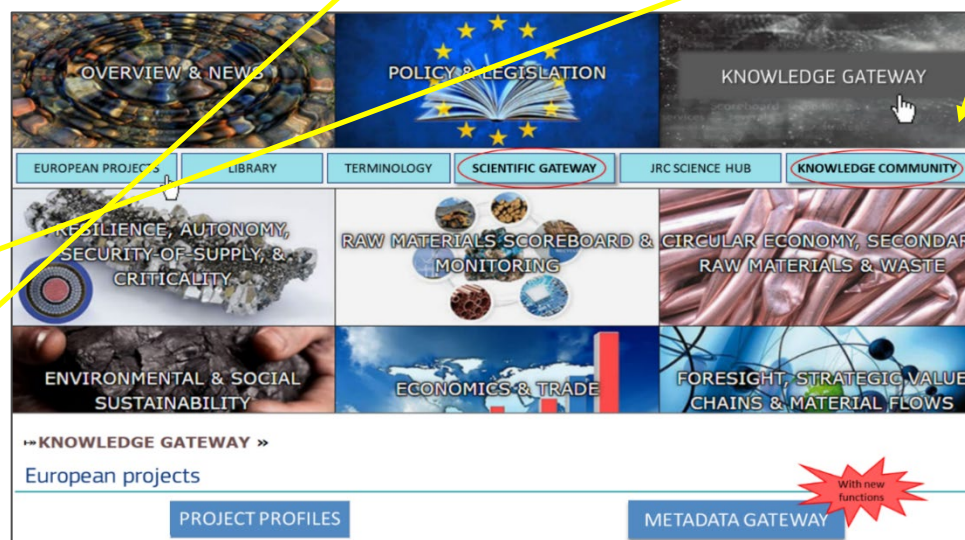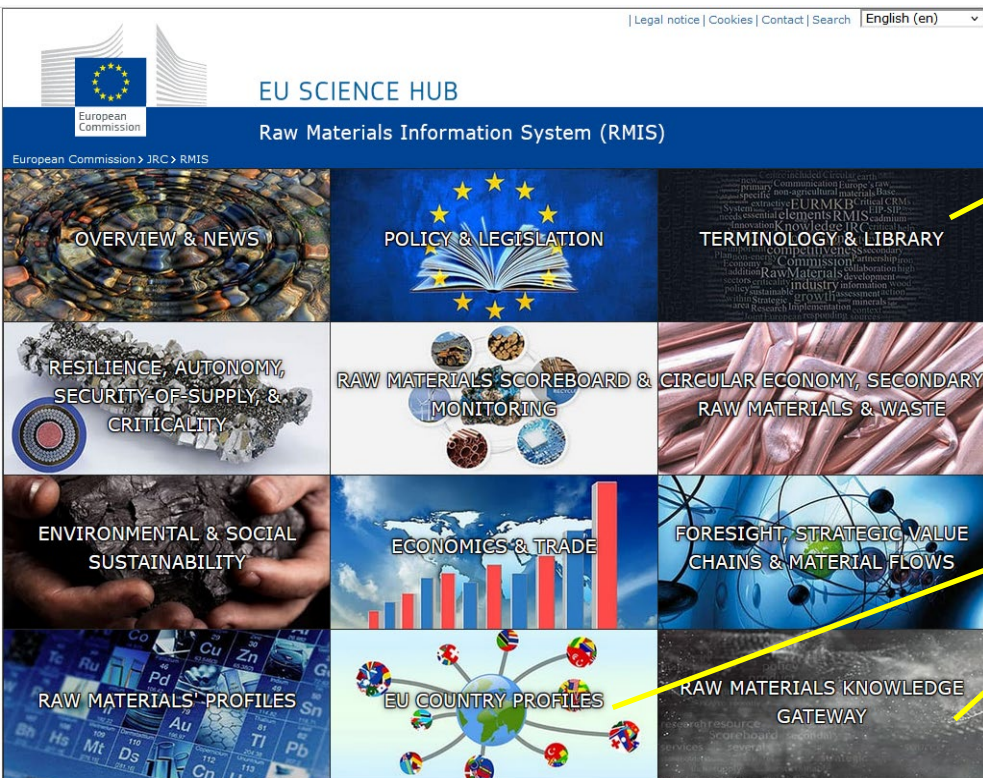
Core expert network: ca. 150-200

Stakeholder network: ca. 1400
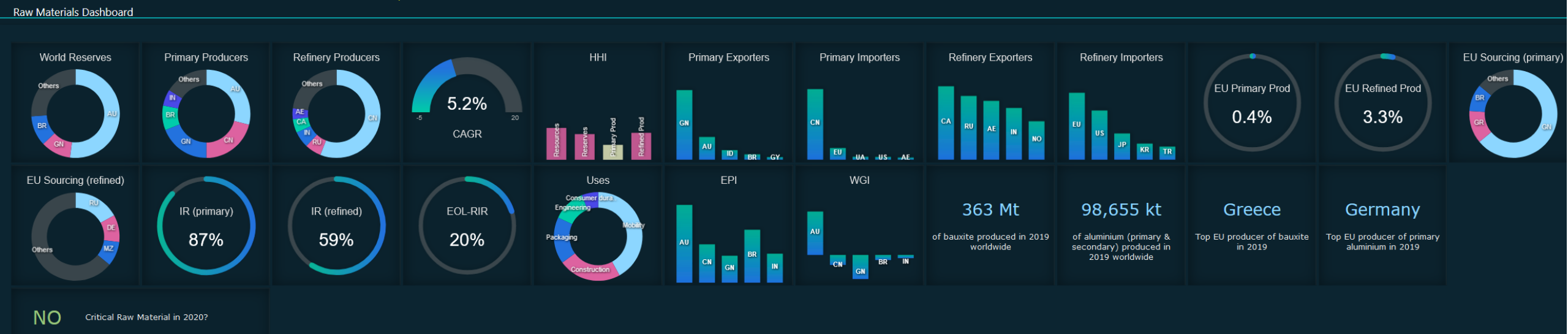
Users: thousands of unique visitors /month

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RMIS – PRESENT & FUTURE

https://rmis.jrc.ec.europa.eu/

RMIS – NEW FEATURES

CURRENT WAYS OF INTEGRATION –
DIRECT INTEGRATION

CURRENT WAYS OF INTEGRATION – DIRECT INTEGRATION

RMIS can embed an external web application or page, hosted on the partner's website, using web embedded content - html embedding technologies based on nested browsing contexts.

CURRENT WAYS OF INTEGRATION – DIRECT INTEGRATION

OVERVIEW & NEWS | POLICY & LEGISLATION | TERMINOLOGY & LIBRARY

EUROPEAN POLICY | EU LEGISLATION | INTERNATIONAL CONVENTIONS & INITIATIVES | MEMBER STATES LEGISLATION

Member States Legislation

Austria, Belgium, Bulgaria, Croatia, Cyprus, Czechia, Denmark, Estonia, Finland, France

Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands

Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden

Minerals policy, regulatory framework, relevant legislation in Germany

Minerals policy profile (MIN-GUIDE)

Minerals permitting profile (MINLEX)

Mining Act in English

Raw Materials Strategy in English

Other relevant legislation in original are accessible at:

https://rosys.dera.bgr.de/mapapps/resources/apps/rosys/index.html?lang=en

https://www.juris.de/jportal/index.jsp

www.gesetze-im-internet.de

http://www.rohstoffwissen.org/

The MINVENTORY database provides more information on the topic.

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CURRENT WAYS OF INTEGRATION – ARCHIVATION

2018 survey result

The scale of potential input (also beyond SC5):

- ORAMA mapped ca. **600** projects, selected 40-50 with relevant info (ie. network and/or database)
- EIT RM: **200** projects (+EIT Innoenergy?)
- EIP RM commitment consortia: **100+**
- ERAMIN, ERAMIN2, GEOERA, ERAMET: **50+**
- Interreg, ERC, RFCS, NER300 …: **50+**
- Member States: **???**

IN TOTAL: >1000 projects (4-5000 reports)

CURRENT WAYS OF INTEGRATION – ARCHIVATION

RMIS Library
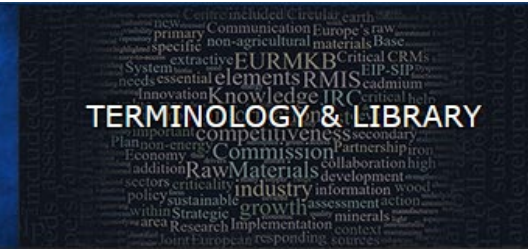
Title of the document	**Authors**
Document type	**ISBN/Code**
Publisher	**Year**

Advanced search - additional filters

Geographical coverage
- ☐ Belgium
- ☐ Bulgaria
- ☐ Czechia
- ☐ Denmark
- ☐ Germany
- ☐ Estonia
- ☐ Ireland
- ☐ Greece

Thematic coverage along value chain
- ☐ exploration (incl. survey, prospection too)
- ☐ extraction
- ☐ primary and secondary processing
- ☐ mine closure (incl. remediation, aftercare)
- ☐ production (incl. fabrication, design, material efficiency, substitution, replacement)
- ☐ distribution (incl. sustainable consumption, material dissipation)

EIP SIP relevance
- ☐ research & innovation
- ☐ technologies for raw materials production (exploration, extraction, processing, recycling)
- ☐ substitution (materials for green energy technologies, for electronics, for extreme conditions, for large streams)
- ☐ improving EU RM framework (policy, access to deposits, public awareness)
- ☐ improving EU waste management framework (product design, quality recycling, illegal waste shipment, optimized recovery)
- ☐ knowledge & skills & Material Flows (knowledge base, EIT Community, optimized material flows)
- ☐ international cooperation (technology, governance, dialogues, health & safety & environment, skills & education & knowledge, investments)

RMIS topics covered
- ☐ Overview
- ☐ Policy & Legislation
- ☐ Terminology & Library
- ☐ Critical Raw Materials
- ☐ Raw Materials Scoreboard & Monitoring
- ☐ Secondary Raw Materials & Circular Economy
- ☐ Environmental & Social Sustainability
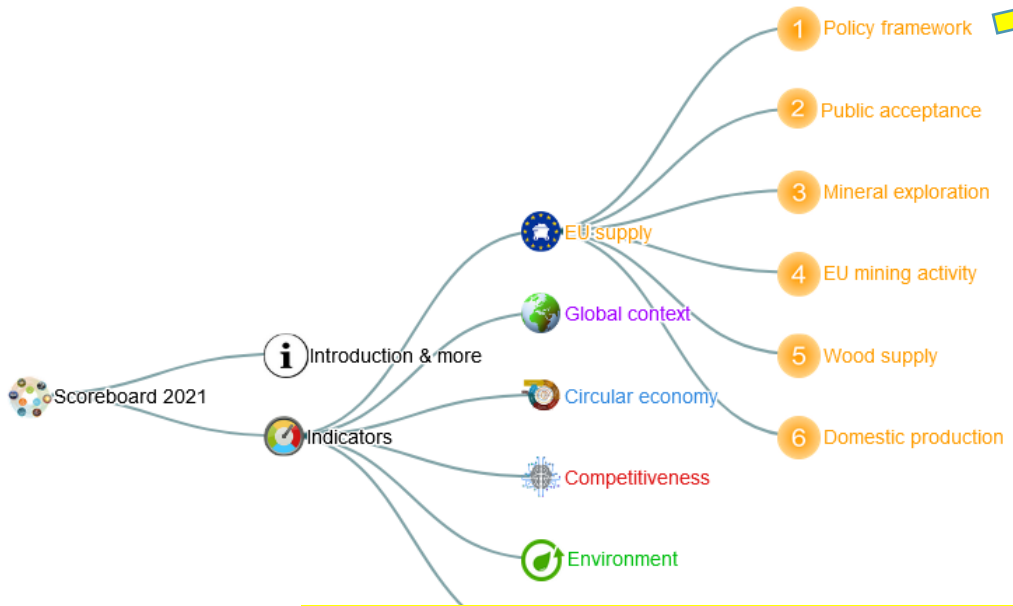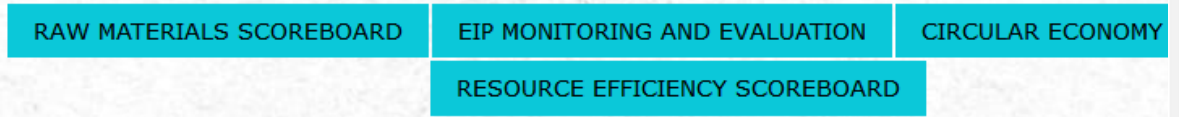- ☐ Economics & Trade

Raw material coverage
- ☐ 3.7 — Paper waste
- ☐ 3.8 — Urban and hazardous (other unspecified industry) waste
- ☐ 3.9 — WEEE
- ☐ 3.1 — EoL vehicle waste
- ☑ 3.11 — Batteries
- ☐ 4 — Energy commodities (fossil fuels (incl. uranium)), renewables, energy recovery from waste

Hide filters

Clear search fields and filters

Search for documents

CURRENT WAYS OF INTEGRATION – INFORMATION USED IN RMIS OUTPUTS
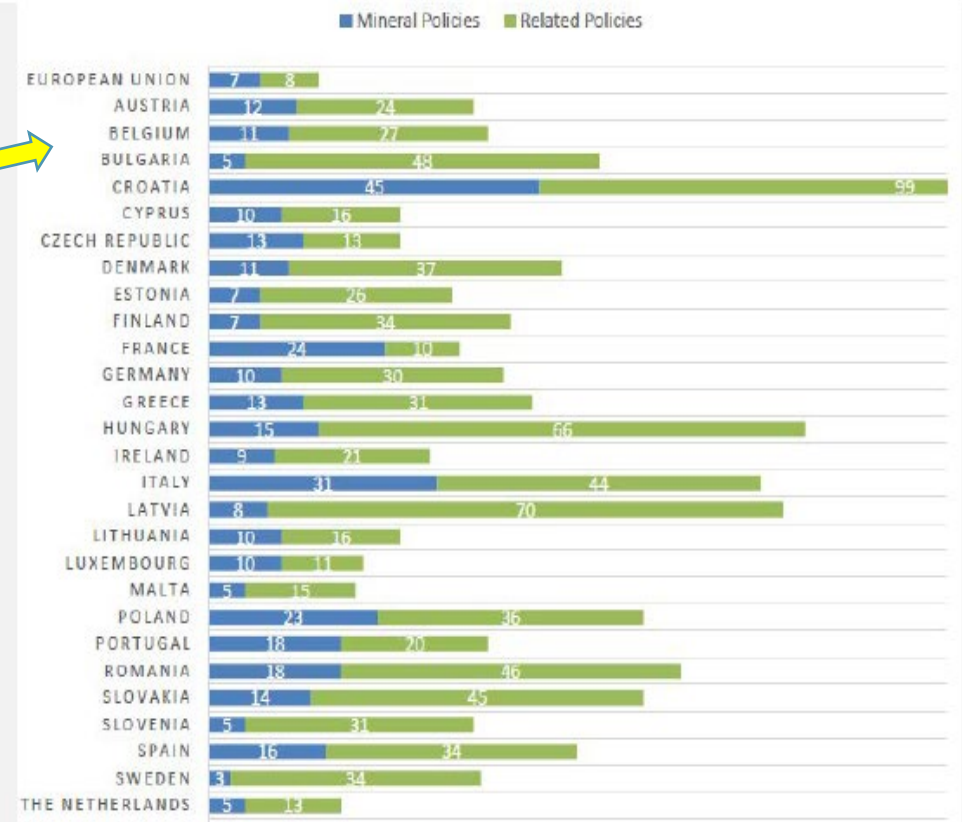

Figure 1.2: Number of mineral policy documents and other related policy documents in EU countries in 2018[68].

The recently finished MINLAND project studied national minerals policies in the context of spatial development and land use planning. The sterilisation, i.e. becoming inaccessible, of minerals

+ a number of other references on ORAMA, ProSUM, STRADE, MINLAND

CURRENT WAYS OF INTEGRATION – DATA & INFORMATION USED

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CURRENT WAYS OF INTEGRATION – KNOWLEDGE GATEWAY

CURRENT WAYS OF INTEGRATION – STAKEHOLDERS LIST

FUTURE WAYS OF INTEGRATION & CO-OPERATION

Beyond the current practices, new ways to be considered:

- **transfer/gateway to „ready made applications"**

- **database transfer and update through established APIs**

- **advanced knowledge management options**
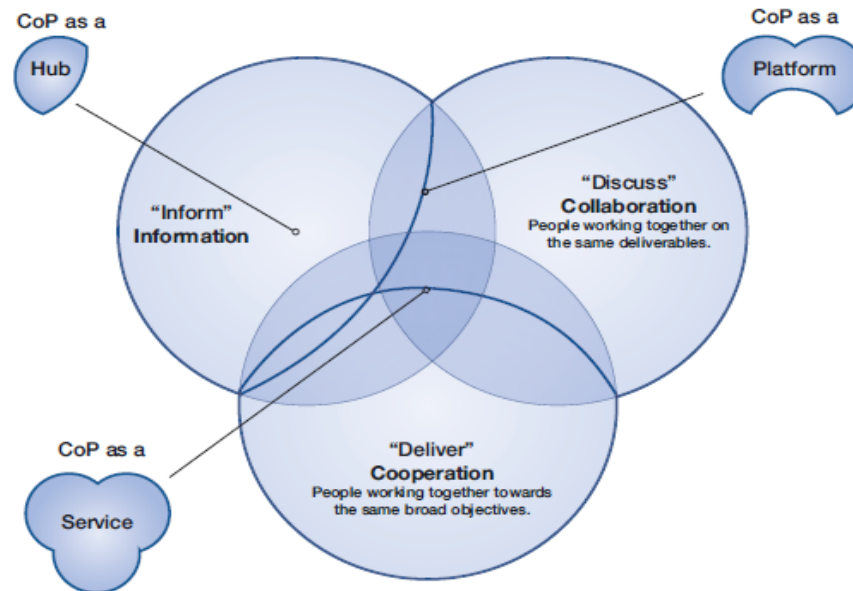
PRACTICAL STEPS

- **assess which form(s) of integration you prefer**

- **the easy way:**

    - **- send major reports (pdf) and their searchable attributes (xls)**

    - **- send project profile for the Gateway (preferred for sustainable consortia)**

- **think about & consult us for other sophisticated ways**

- **use rmis@ec.europa.eu for contact**

- **register for the RMIS newsletter**

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CONCLUDING REMARKS

- **RMIS is a sustainable information system with sound legal mandate, stable infrastructure and expert capacity to host your data and information free of charge.**

- **RMIS is a popular website with lots of information coming from H2020 projects, it complements well HaDEA's data hub https://sc5.easme-web.eu/?theme=green.**

- **Co-operation and joint efforts with consortia are needed to develop new, enhanced ways of integration of information.**

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Thank you!

Website: rmis.jrc.ec.europa.eu
Contact: ec-rmis@ec.europa.eu

EU Science Hub: ec.europa.eu/jrc

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EU Science, Research and Innovation

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