



# The Building Bricks for EU Minerals Information Service: an overview

***US-EU Workshop on Raw Materials Flows & Data***  
*November 2013, Reston, USA*

***Slavko SOLAR***  
*European Commission, DG Enterprise and Industry*

*F3 - « Raw Materials, Metals, Minerals, and Forest-based industries »*



- **Raw Materials Initiative from 2008 ....**
- **EIP RM & H2020 background**
- **II. NON-TECHNOLOGY PILLAR**
  - II.A Priority Area: Improving Europe's raw materials framework conditions
  - II.C Priority Area: Knowledge, skills and raw materials flows
- **Implementation**
  - H2020 2014 / 2015

## **II.A Priority Area: Improving Europe's raw materials framework conditions**

### **•Action area n° II.1: Minerals Policy Framework**

- MS practices
- EU guidance and legislation
- Communication

### **•Action area n° II.2: Access to Mineral Potential in the EU**

- Implementation of the concept of “mineral deposit of public importance”
- EU legislation
- MS practices and EU guidance on land use planning

### **•Action area n° II.3: Public Awareness, Acceptance and Trust**



## **II.A Priority Area: Improving Europe's raw materials framework conditions**

### **•Action area n° II.1: Minerals Policy Framework**

#### **•Communication**

- 12) Develop guidelines with EU reporting standards based on internationally accepted conventions with regard to raw materials. This will include the standardized input, data and outputs, supply chain due diligence as well as the transparency of sources and information. Develop national and EU mineral reporting schemes (including mineral yearbooks, reporting on reserves and resources) based on standard terminology.



## **II.C Priority Area: Knowledge, skills and raw materials flows**

- Action area n° II.8: EU Raw Materials Knowledge Base**
- Action area n° II.9: Possible EIT Knowledge and Innovation Community**
- Action area n° II.10: Optimised raw materials flows along value chains**

## Action area n° II.8: EU Raw Materials Knowledge Base

- 1) Develop the appropriate conditions to provide a service, with structure that will include information infrastructure and intelligence ...
- 2) Organize relevant data input and establish relevant EU / global standards ensuring that the knowledge base would be interoperable with national databases and other relevant databases (such as FP7 projects).
  - primary and secondary raw materials
  - maps and information
  - materials system analysis
  - techniques/technologies and business models

## Action area n° II.8: EU Raw Materials Knowledge Base

3) Raw materials intelligence should use all relevant methods and tools (statistics, LCA, MSA, 2-4 D modelling, forecasting, analysis on policy, regulations, and trade issues)

4) Reporting public data, based on EU / international reporting guidelines (internet and publications - EU European minerals yearbook, regular (annual) reports and early warning system, economic expertise and judgement skills at EU and Member State level to evaluate primary deposits or secondary potentials.

## Action area n° II.8: EU Raw Materials Knowledge Base

5) Collaboration with the rest of the world on raw materials information with countries

- 1) with high-performance raw materials information systems (US, Japan, Australia, Canada ....
- 2) that are large or potential supplier of raw materials to Europe,
- 3) international organizations or initiatives
- 4) neighbouring countries

6) Improvement of data collection of raw resources at national and regional level in the EU and subsequent access to data.





## **4. Horizon 2020: Societal Challenge 5 - Climate action, environment, resource efficiency and raw materials (SC5)**



- Innovative and sustainable solutions leading to substitution of raw materials
  - Materials for electronic devices
  - Materials under extreme conditions
- Towards near-zero waste at European and global level (Waste FA?)
  - A European near-zero waste stakeholder platform
  - **Secondary raw materials inventory (2014)**
  - Raw materials partnerships



- Coordinating and supporting raw materials research and innovation
  - Mineral deposits of public importance
  - **Raw materials intelligence capacity (2015)**
  - Innovation friendly minerals policy framework
  - Raw materials research and innovation coordination
  - Strategic international dialogues and co-operation on raw materials with technologically advanced countries
  - Strategic international dialogues and cooperation with raw materials producing countries and industry
- Cross-challenge topics
  - Boosting the potential of small businesses for eco-innovation and a sustainable supply of raw materials (SME Instrument)



- **DG ENTR**

- **Study on Data Needs for a Full Raw Materials Flow Analysis (2012)**
- **Study on Data Inventory for the Raw Material System Analysis: Roadmap and test of the Fully Operational MSA for Raw Materials (2014-2015)**
- **Structured Statistical Information on the Quality and Quantity of the EU Raw Materials Deposits (2013-2014)**
- **European Rare-Earth Competency Network (ERECON)(2013-2014)**

- **DG RTD**

- **FP7 Coordination and support action: "The European Intelligence Network on the Supply of Raw Materials" (start 2013)**

# Conclusions



## EU Raw Materials Knowledge Base

### Actions:

- 1) Appropriate conditions to provide a service
- 2) Organize relevant data input (studies, projects)**
- 3) Raw materials intelligence (2015)**
- 4) Reporting (on-going ...)
- 5) Collaboration ((on-going ...)**
- 6) Improvement of data collection

# Conclusions

