Long term vision for the Raw materials?

VERAM Stakeholder Workshop
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We need a really attractive long term vision

We need the best experts to do that

We need to mobilise all stakeholders who can help, while building on the existing community

Raw materials in the next MFF/FP9?
• improving both research and innovation collaboration among all the relevant European Technology Platforms and other industrial and research initiatives - **ETPs, KIC, ERA-NETs, relevant H2020 projects**...

• improving coordination with the relevant EU, Member States and regional policies and initiatives in the area of raw materials – **RMI, EIP**...

• engaging all the relevant players, particularly civil society and authorities at regional and local level, across the whole EU.

• The action should develop a common **long term 2050 vision and roadmap** for the relevant raw materials, including metals, industrial minerals and aggregates, wood and natural rubber-based materials.
'Raw Materials Initiative' = EU Raw Materials policy

- **Aim:** securing sustainable supplies of raw materials
- **Launched in 2008, consolidated in 2011**
- **Non-energy, non-agricultural raw materials**
- **Integrated strategy (3 pillars)**
- **Introduced list of Critical Raw Materials (CRM) in 2010, updated 20 CRMs in 2014**

Ensure level playing field in access to resource in third countries
Foster sustainable supply from European sources
Boost resource efficiency and recycling
CRM ↔ Economic importance + Supply risk

* Communication on the review of the list of critical raw materials for the EU and the implementation of the Raw Materials Initiative - COM(2014) 297, 26.5.2014
CRM Materials flows*

Simplified Sankey diagram for Neodymium

Results in t/year for the year 2013

Imports
- Primary material: 178 t
- Processed material: 847 t
- Product: 385 t
- Waste: 11 t

Exports
- Processed material: 83 t
- Product: 332 t
- Waste: 08 t

Addition to in-use and end of life stock
- Product: 571 t

Addition to landfill and tailings
- Waste: 187 t

Functional recycling
- Secondary material: 14 t

Losses
- Non functional recycling: 240 t

EU-28 boundary

* Study on Data for a Raw Material System Analysis, 2015: https://ec.europa.eu/growth/tools-databases/msa/content/report-summaries
Circular Economy

Transition towards a Circular Economy

The value of products, materials and resources is maintained in the economy for as long as possible

- Waste generation is minimised
- Brings economic, social and environmental gains
123 Raw Materials Commitments:

- 980 partners, indicative budget ± EUR 2 billion

European Commission:

- Horizon 2020 (600 MEUR over 2014-2020)
  - **Near 40 Projects on Raw Materials under SC5. EC Contribution > 200 MEUR in 2014-2016**
  - Circular Economy Package
  - Studies, reports, conferences, dialogues etc

- **Launch EIT Raw Materials**
The EIP is well on track to achieving its targets:

<table>
<thead>
<tr>
<th>Target</th>
<th>Outlook</th>
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<tr>
<td>1: Up to 10 innovative pilot actions</td>
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<td>2: Substitutes for at least 3 applications of critical and scarce raw materials</td>
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<td>3: Framework conditions for primary raw materials</td>
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<td>4: Framework conditions for material efficiency and waste management</td>
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<td>5: European raw materials knowledge base</td>
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<td>6: Launch of a Knowledge and Innovation Community</td>
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<td>7: Pro-active international co-operation strategy</td>
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Raw materials in Horizon 2020?

Excellent science

Industrial leadership

Societal challenges

SC5 - Raw materials (~€600 million/)
- 26 CRM related projects

Circular Economy
SC2 - Bioeconomy
SC3 - Energy

+ ERA-MIN 2
+ EIT Raw Materials

NMPB - Materials
SPIRE PPP
EEB PPP
SME Instrument
FTI-pilot
Steps in 2017

**JUNE**
- Publication of the *evaluation of the European Institute of Innovation and Technology* (EIT)

**JULY**
- Publication of the *report of the High Level Group on maximising the impact of EU R&I programmes* (chaired by Pascal Lamy)
- Conference: "R&I – Shaping our Future" (3 July)

**OCT.**
- Publication of the *evaluations of Public-Private Partnerships and Public-Public Partnerships* (Art.185 & Art. 187 initiatives)
- Publication of *Commission Communication* on the Interim Evaluation of Horizon 2020
6 November:
Copernicus for raw materials

7 November:
EU advanced mining country raw materials diplomacy dialogue
EU critical raw materials event

8 November:
5th annual High Level Conference of European Innovation Partnership (EIP) on raw materials"

9 November:
Horizon 2020: societal challenge 5 infoday & and brokerage event
Reconciling biodiversity protection and extractive activities within Natura 2000 Network

If you would like to add your event to the programme, please contact GROW-EIP-RAW-MATERIALS@ec.europa.eu
Thank you!

**EU raw materials:**

**EIP on Raw materials:**

**EIT Raw materials:** www.eitrawmaterials.eu

**Horizon 2020 - Raw materials webpage:**

**Raw Materials Week 2017:**