The KIC on Raw Materials: synergies and complementarities with other EU policy and funding instruments in the field of the Raw Material initiative

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Gabriele MORGANTE
European Commission, DG Enterprise and Industry
Unit F3 - « Raw Materials, Metals, Minerals, and Forest-based industries »
Structure of presentation

1. The Raw Materials Initiative + EIP

2. Raw materials related funding instruments

3. How KIC can contribute to the EU policy and initiatives?
1. The Raw Materials Initiative
EU “Raw Materials Initiative”

- **Aim**: securing sustainable supplies of raw materials
- **Launched in 2008, consolidated in 2011**
- **Non-energy, non-agricultural raw materials**
- **Connecting EU external and internal policies**
- **Integrated strategy (3 pillars)**
- **Introduced list of Critical Raw Materials (CRM) in 2010**
EIP – novel concept

1. Raw Materials Initiative

- **Speed up breakthrough innovations**
  - by pooling resources through a challenge-driven approach
  - and acting across research and innovation cycle
  - bringing together all relevant actors to connect supply and demand side for a societal challenge, covering much more than R&D

- **Innovation required for the entire value chain of raw materials – industrial approach**
  - Exploration, exploitation, processing, using, recycling, substitution, etc.
  - **Sectors**: mining, engineering, pulp and paper, product design, robotics, etc.

Commission adopted the proposal for an Innovation Partnership on raw materials on 29 February 2012
COM(2012) 82 final
Objectives

Overall objective:
Contribute to the 2020 objectives of the EU Industrial Policy (to increase the share of industry in GDP to 20%), the Innovation Union and the Resource Efficiency 'flagships'

Specific objectives:
- Reduce import dependency
- Improve supply conditions from European and other sources
- Push Europe to the forefront in raw materials sectors
- Provide alternatives in supply
- Mitigate negative environmental and social impacts
The Strategic Implementation Plan (SIP) of the European Innovation Partnership on Raw Materials was adopted by the High Level Steering Group of the EIP on 25 September 2013 in Brussels...

• I. Technology Pillar
  • I.A Raw materials research and innovation coordination
  • I.B Technologies for primary and secondary raw materials' production
  • I.C Substitution of raw materials

• II. Non-Technology Policy Pillar
  • II.A Improving Europe's raw materials framework conditions
  • II.B Improving Europe's waste management framework conditions and excellence
  • II.C Knowledge, skills and raw materials flows

• III. International Cooperation Pillar
  • III.1 Technology
  • III.2 Global Raw Materials Governance and Dialogues
  • III.3 Health, Safety and Environment
  • III.4 Skills, Education and Knowledge
  • III.5 Investment activities
II. Non-Technology Policy Pillar

• II.A Improving Europe's raw materials framework conditions

• II.B Improving Europe's waste management framework conditions and excellence

• II.C 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
2. Raw materials related funding instruments
Instruments for the implementation of the EIP SIP:

1. Structural funds
2. Horizon 2020
   a) SC5
   b) KIC
3. ...
1) Cohesion Policy 2014-2020

325 Billions € to invest in Europe's regions, cities and the real economy

2. Raw materials related funding instruments

EU's principle investment tool for delivering the Europe 2020 goals
Raw Materials: big scope for innovation along the whole raw materials value chain (exploration, mining, substitution, processing, recycling)

ERDF regulation

Thematic concentration of at least 80% of resources (in more developed regions) on 4 thematic objectives:

1. strengthening research, technological development and innovation
2. enhancing access to, and use and quality of, ICT
3. enhancing the competitiveness of SMEs, of the agricultural sector and of the fishery and aquaculture sector
4. supporting the shift towards a low-carbon economy in all sectors
2. Raw materials related funding instruments

HORIZON 2020 BUDGET (EUR 78.6 billion, current prices)

- **Industrial Leadership**
  - EUR 17.0 billion

- **Excellent Science**
  - EUR 24.4 billion

- **Societal Challenges**
  - EUR 29.7 billion

- **Euratom**
  - EUR 1.6 billion

- **European Institute of Innovation and Technology**
  - EUR 2.7 billion

- **Other**
  - EUR 3.2 billion
## Societal challenges

| 1. Health, demographic change and wellbeing | 7 472 |
| 2. Food security, sustainable agriculture, marine and maritime research & the Bioeconomy | 3 851 |
| 3. Secure, clean and efficient energy * | 5 931 |
| 4. Smart, green and integrated transport | 6 339 |
| 5. Climate action, resource efficiency and **raw materials** | 3 081 |
| 6. Inclusive and reflective societies | 1 309 |
| 7. Secure societies | 1 695 |
| *Science with and for society* | 462 |
| *Spreading excellence and widening participation* | 816 |

* Additional funding for nuclear safety and security from the Euratom Treaty activities (2014-2018)

All funding figures (€ million, 2014-2020) in this presentation are subject to the pending Multiannual Financial Framework Regulation by the EP and the Council
**EIP Scheme**

**Objectives**

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<th>To reduce dependency on imports</th>
<th>To promote the production and exports</th>
<th>To put Europe at the forefront in RM sectors</th>
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**EIP Targets**

- Up to 10 innovative pilot actions
- Substitutes for 3 applications of CRMs
- Framework conditions for primary RMs
- Framework for enhanced efficiency in material use
- EU Raw Materials Knowledge base
- Network of Research, Education and Training Centres

**EIP Strategic Implementation Plan**

- To improve supply conditions from EU
- To diversify raw materials sourcing
- To improve resource efficiency including recycling
- To find alternative raw materials
- To make Europe a leader in the RM capabilities
- To mitigate environmental, social and health impacts

**Instruments**

- Structural Funds
- EU policies (Industrial, environmental, ...)
- Horizon 2020
- Societal Challenge 5 WP2014-2015

**Call for Commitments**

- EIT KIC
3. How KIC can contribute to the EU policy and initiatives?

1. Pan-European character

2. Cover the entire value-chain

3. Focus on non-energy and non-agriculture Raw Materials
References

- EU raw materials webpage:

- European Innovation Partnership on Raw Materials:

- Horizon 2020:
    - first H2020 Call for Proposals - 11 Dec 2013
    - Call for experts for H2020
      (OJ of the EU, C 342, Volume 56, 22 November 2013)
    - National NCP SC5 support and events
Thank you