EU Raw Materials Initiative & European Innovation Partnership

International Copper Study Group
International Nickel Study Group
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F3 - « Raw Materials, Metals, Minerals, and Forest-based industries »
Objectives

The overall objective of the EIP on Raw materials is to contribute to the 2020 objectives of the EU Industrial Policy to increase the share of industry on GDP to 20%, the Innovation Union flagship initiative, and the Resource Efficiency Policy by ensuring the sustainable supply of raw materials to European economy and society.

Specific:

- Reduce import dependency
- Improve supply conditions from the EU and other sources
- Push Europe to the forefront in raw materials sectors
- Provide alternatives in supply
- Mitigate negative environmental and social impacts
EIP targets 2020

- Up to **10 innovative pilot actions** e.g. demonstration pilot plants for exploration, mining, processing, collecting and recycling
- **Substitutes for at least 3 applications** of critical raw materials
- **Regulatory framework for primary raw materials**
- **Raw materials network** of Research, Education and Training Centres
- **Raw materials knowledge base** with raw materials flows and trends
- **Enhanced efficiency in material use** and in waste prevention, re-use and recycling,
- **Pro-active international cooperation strategy** of EU at bilateral and multilateral level
Work packages - Operational Groups

- **Technology-focused policy areas**
  - WP1 - Exploration, extraction, processing, recycling ...
  - WP2 - Substitution, alternative functionalities and materials

- **Non Technology policy areas**
  - WP3 - Improving Europe's raw materials regulatory framework conditions, knowledge base and infrastructure
  - WP4 - Improving Europe's recycling regulatory framework conditions and excellence

- **WP5 - International cooperation**
  - Promoting appropriate international cooperation
Progress on the European Innovation Partnership
Achieved

- External secretariat set-up, early 2013

- EIP Kick off by HLSG on 12/02/2013

- 4 Sherpa meetings and 2 Operational Groups meetings

- Strategic implementation plan adopted by HLSG on 25/09/2013
Strategic Implementation Plan

- **3.I**  **Technology Pillar**
  - 3.I.A Priority Area: Raw materials research and innovation coordination (WP1&2)
  - 3.I.B Priority Area: Technologies for primary and secondary raw materials' production (WP1)
  - 3.I.C Priority Area: Substitution of raw materials (WP2)

- **3.II**  **Non-Technology Policy Pillar**
  - 3.II.1 Priority Area: Improving Europe's raw materials framework conditions (WP 3)
  - 3.II.2 Priority Area: Improving Europe's waste management framework conditions and excellence (WP4)
  - 3.II.3 Priority Area: Knowledge, skills and raw materials flows (WP 3 & 4)

- **3.III**  **International Cooperation Pillar (WP5)**
• **International cooperation pillar**

  Important cross cutting part of EIP SIP

  Considers how best to balance benefits of international trade and international dialogues with the need to support other EIP pillars

• Encourages greater recovery + production within EU

• International cooperation on improving access to raw materials globally

• Substitution & resource efficiency

• Knowledge/best-practice sharing
International Cooperation Pillar (WP5) divided into specific action areas:

- Action area n° V.1: Technology
- Action area n° V.2: Global raw materials Governance and Dialogues
- Action area: n° V.3: Health, Safety and Environment
- Action area n° V.4: Skills, Education and Knowledge
- Action area n° V.5: Investment activities
Part of the international cooperation

- Based on:
- dialogues where EU and partner countries collaborate with higher mutual benefit
- dialogues established by Letters of Intent

5 events to take place in 2013 and 2014

Letters of intent signed by VP Tajani with: Argentina, Uruguay, Colombia, Mexico, Chile, Peru, Greenland, Morocco, Tunisia.
Events + tentative dates:

- EU-US-Japan workshop on criticality (November 2013)
- EU-Latin America dialogue on raw materials (February 2014)
- Workshop – best practices on mining policies, including technologies (June 2014)
- EU – Greenland workshop (September 2014)
- EU – African Union workshop (October 2014)
SIP: The way forward

- 2nd half of 2013
  - Sherpa meeting on 22 October 2013
  - Call for Commitments (End-October)
  - Monitoring and evaluation schemes (in preparation)

- 2014
  - Communication on SIP
  - SIP implementation to start
Horizon 2020

Excellent science
(€ 24 billion)

Industrial leadership
(€ 17 billion)

Societal challenges
(€ 31 billion)

* All the numbers are subject to the approval of the Multiannual Financial Framework Regulation by the European Parliament and the Council
## Horizon 2020: 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**

**Spreading excellence and widening participation**

* 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
Horizon 2020: 5.3 Raw materials

- New solutions for sustainable production of raw materials
  - New exploration technologies and geomodels
  - Mining: small deposits, alternative mining, deep mining
  - Processing and metallurgy: technologies, new systems
  - Recycling of raw materials from products and buildings
- Innovative and sustainable solutions leading to substitution of raw materials
  - Materials for electronic devices / under extreme conditions
- Towards near-zero waste at European and global level
  - Secondary raw materials inventory
  - Raw materials partnerships
Coordinating and supporting raw materials research and innovation
- Mineral deposits of public importance
- Raw materials intelligence capacity
- 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)
• EU raw materials webpage:
  http://ec.europa.eu/enterprise/non_energy_extractive_industries/raw_materials.htm

• European Innovation Partnership on Raw Materials:

• Report on critical raw materials:

• Report on best practices in area of land use planning, permitting and geological knowledge:

• Natura 2000 guidelines:

• Trade raw materials activity report 2012:
  http://trade.ec.europa.eu/doclib/docs/2012/may/tradoc_149515.pdf

• 2011 JRC report on critical metals and energy technologies: