



The Raw Materials Strategy: the way forward

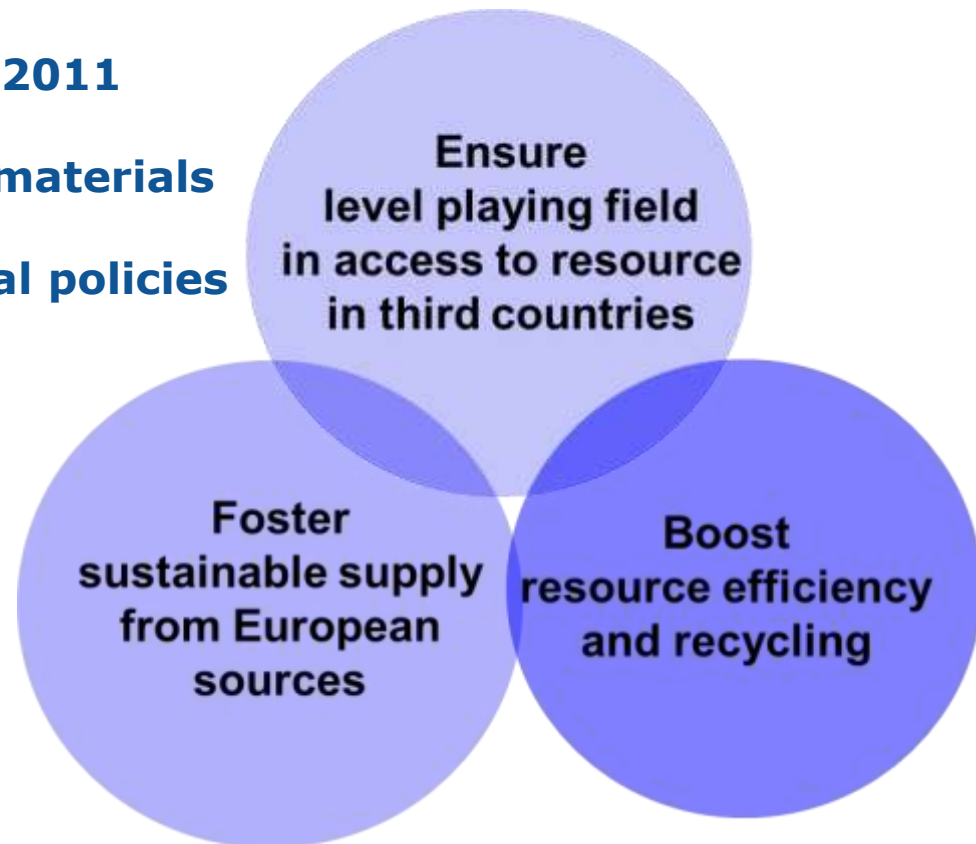
European Mining Business Forum
Sofia, 13 September 2016

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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, updated 20 CRMs in 2014**





Annual report on the implementation of the Raw Materials Initiative – 26.05.2014

Fair and sustainable supply of raw materials from global markets (1st Pillar)

- EU trade strategy for raw materials
- Raw materials diplomacy
- Assistance to developing countries

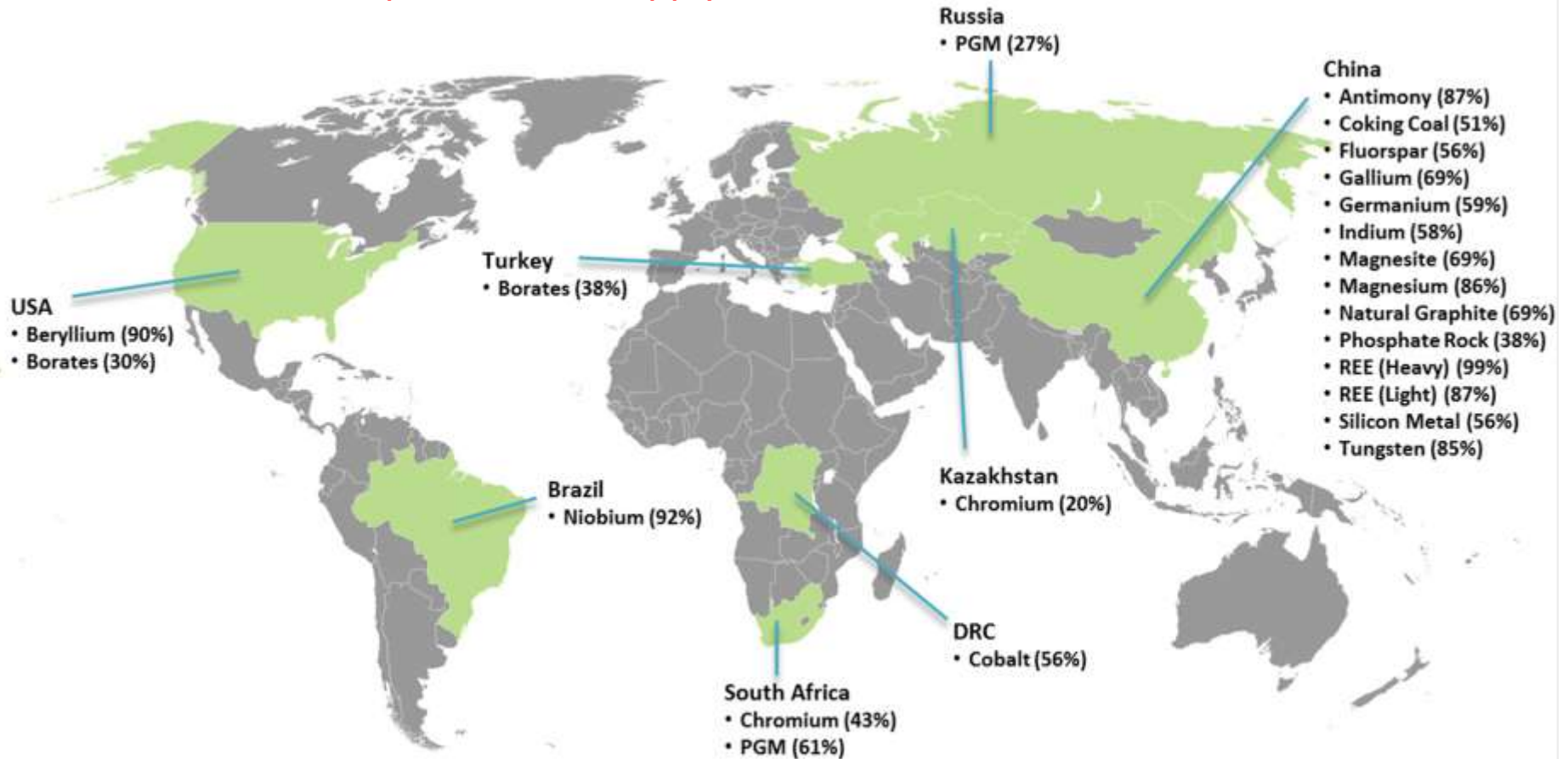
Fostering sustainable supply within the EU (2nd Pillar)

- Exchange of good practice between EU Member States
- Enhancing EU knowledge base
- Promoting research and skills

Boosting resource efficiency and promoting recycling (3rd Pillar)

- Better implementation and smarter EU waste legislation promoting resource-efficiency & recycling
- Strengthen the enforcement of the EU Waste Shipment Regulation

CRM ⇔ Economic importance + Supply risk



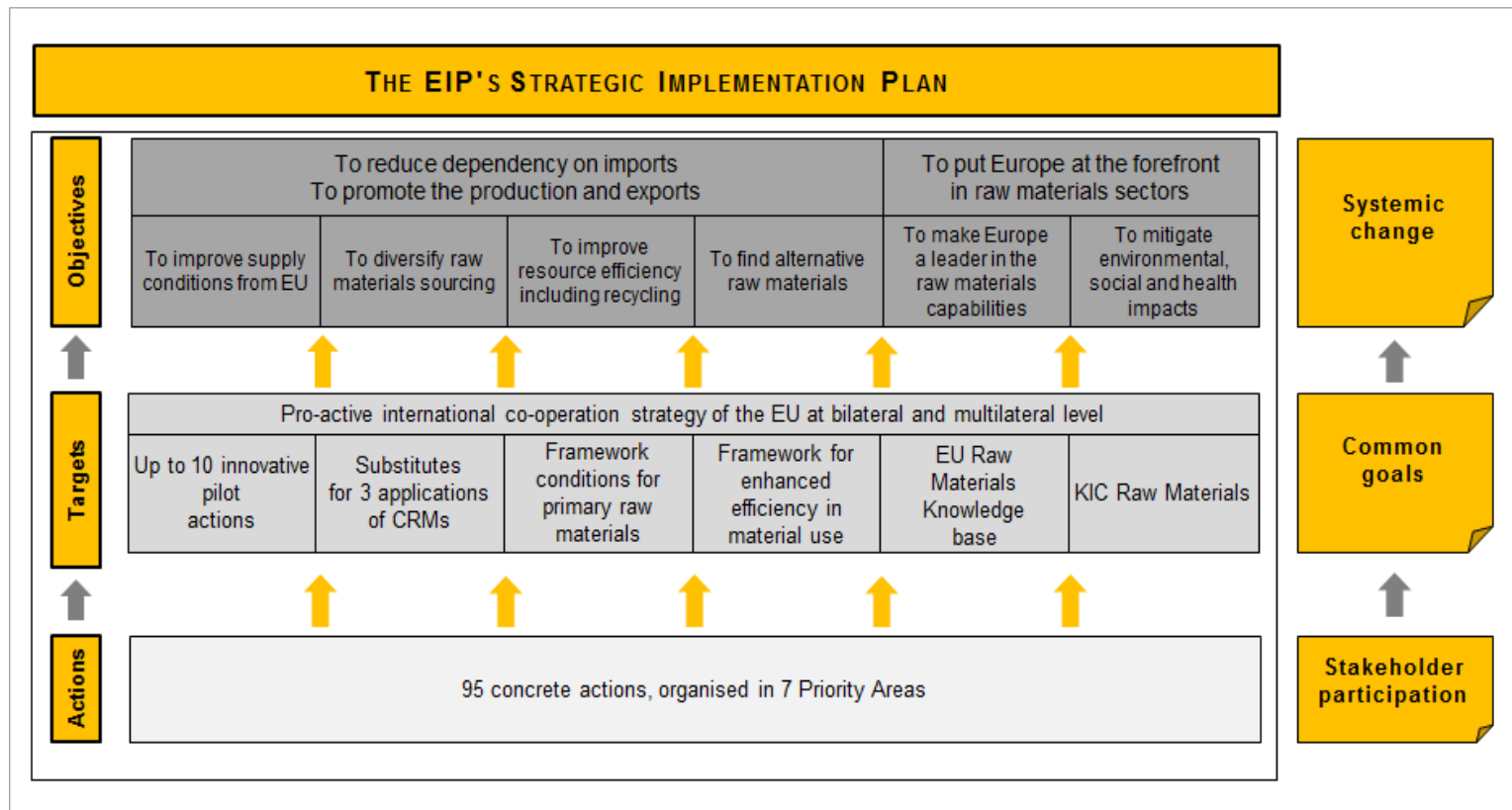
* Communication on the review of the list of critical raw materials for the EU and the implementation of the Raw Materials Initiative - COM(2014) 297, 26.5.2014



The EIP plays a central role in the EU's raw materials policy framework

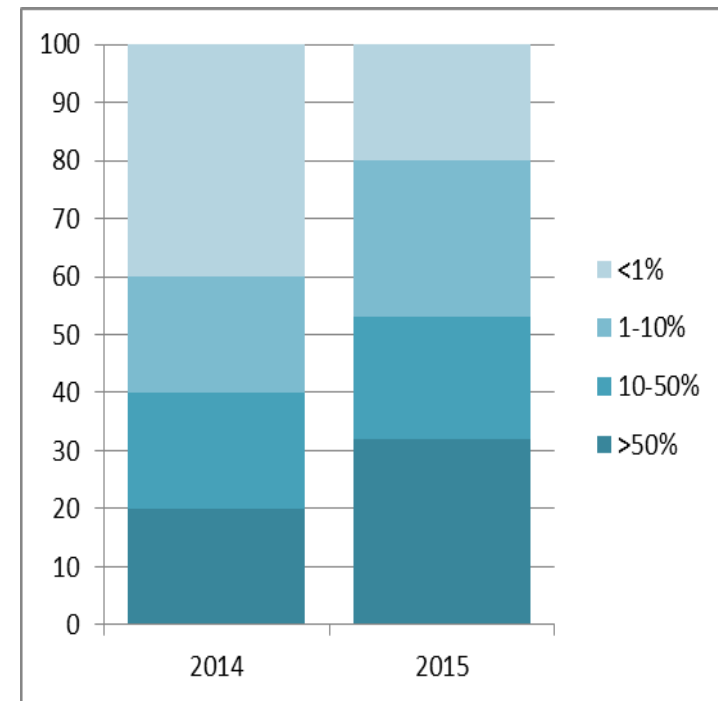
- It reinforces the **Raw Materials Initiative** by:
 - translating the strategic policy framework into **concrete actions**
 - **mobilising the stakeholder community** to implement them
- It has been instrumental in helping **securing R&I funding**: EUR 600 million secured under Horizon 2020

The Strategic Implementation Plan is the EIP's action plan



The EIP has made significant progress towards the implementation of its actions

- **123 Raw Materials**
Commitments: 980 partners, indicative budget ± EUR 2 billion
- **European Commission:**
 - **Horizon 2020 (2014-2016):**
Near 40 Projects on Raw Materials under SC5. EC Contribution > EUR 200 M
 - Circular Economy Package
 - Studies, reports, conferences, dialogues etc
- **Launch EIT Raw Materials**



Indicative budget secured by the Commitments

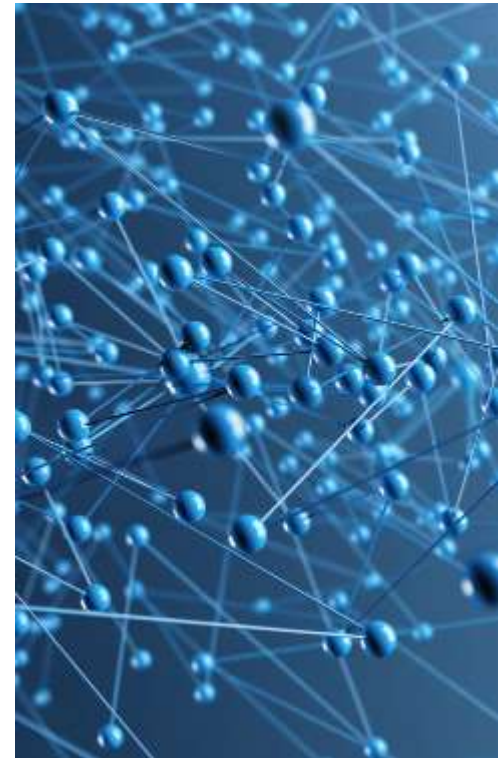
The EIP is well on track to achieving its targets

Target	Outlook
1: Up to 10 innovative pilot actions	😊😊😊
2: Substitutes for at least 3 applications of critical and scarce raw materials	😊😊😊
3: Framework conditions for primary raw materials	😊😊
4: Framework conditions for material efficiency and waste management	😊😊😊
5: European raw materials knowledge base	😊😊😊
6: Launch of a Knowledge and Innovation Community	😊😊😊😊
7: Pro-active international co-operation strategy	😊😊😊

Looking towards the future: strategic orientations for the EIP

To increase the EIP's impact until 2020, the EIP will:

- Create synergies with other stakeholders:
 - Member States and regions, downstream users, SMEs, other High-Level Groups, OECD, International Resource Panel etc
 - Improve communication and raise awareness about the EIP's work
- Change the set-up of the Operational Groups



Looking towards the future: strategic orientations for the EIP

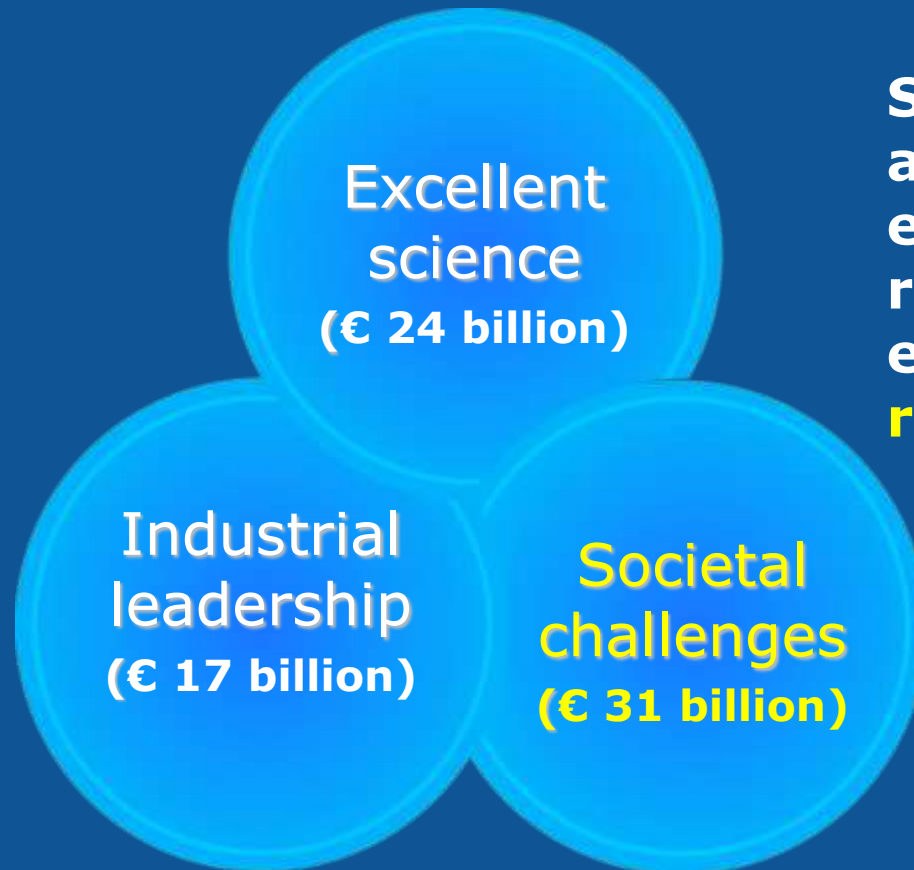
The EIP should actively participate in shaping the EU's future raw materials policy framework

1. Outline **actions that need to be taken to support raw materials policy** + make proposals on **how to take into account economic, political and geopolitical evolutions** that affect the raw materials sector
2. Carry out a **detailed mapping** of the EIP's actions to **identify useful future activities**



Horizon 2020

Context and overview



SC5. Climate action, environment, resource efficiency and raw materials



Objective of the Societal Challenge 5 'Climate action, environment, resource efficiency and raw materials': *to achieve a resource – and water – efficient and climate change resilient economy and society, the protection and sustainable management of natural resources and ecosystems, **and a sustainable supply and use of raw materials**, in order to meet the needs of a growing global population within the limits of the planet's natural resources and eco-systems*

Call - Greening the Economy

1. Climate services
2. Towards a low-carbon Europe
3. Nature-based solutions for territorial resilience
4. Water
- 5. Raw materials**
6. Earth Observation
7. Cultural heritage for sustainable growth
8. Support to policy and preparing for innovation procurement
9. Fast Track to Innovation Pilot
10. SME Instrument

* More topics relevant to raw materials under SC2, SC3, SPIRE, Circular Economy, LEIT-NMBP

Societal Challenge 5 Call 'Greening the economy'.

Budget

- 2017: €76 million

Topics in 2017 will open on 08 November 2016

Deadlines:

- **7 Mar 2017** (RIA, CSA, and First stage of IA)
- 5 Sep 2017 (Second stage of IA)





Societal Challenge 5 Call 'Greening the economy'.

- **New solutions for sustainable production of raw materials**
 - New sensitive exploration technologies (RIA)
- **Raw materials Innovation actions (2 IA)**
 - Processing of lower grade and/or complex primary and/or secondary raw materials in the most sustainable ways
 - Sustainable metallurgical processes
- **Raw materials policy support actions (5 CSA)**
 - Good practice in waste collection systems
 - Optimising collection of raw materials data in Member States
 - Linking land use planning policies to national mineral policies
 - EU network of mining and metallurgy regions
 - EU network of regions on sustainable wood mobilisation (wood supply)
- **Raw materials international co-operation (1 CSA)**
 - International network of raw materials training centres



- Home > Products and Services
- Copernicus services address six
- Land Monitoring**
- Marine Monitoring**
- Atmosphere Monitoring**
- Emergency Management**
- Security**
- Climate Change**
- Data Access**

- Overview
- Application Domains
- Products and Services**
- Support Activities
- Tenders and Grants
- Document Repository
- Project Database
- News
- Events
- Press Room

Prospection and exploration

Copernicus Land Monitoring Service

Fight illegal mining

Extraction - Environmental monitoring and risk prevention

Mine closure / Land reclamation

Copernicus Marine Environment Monitoring Service

Real time monitoring of exploration and exploitation activities

Environmental impact control

Copernicus Emergency Management Service

Mapping Component

Early Warning Component

Technological disaster management and control

Risk mitigation

Early Warning Systems



GEO-related topics in H2020 WP 2016-2017

SC5-18-2017: Novel in-situ observation

SC5-20-2016: European data hub of the GEOSS information system (Data access) – CLOSED

EO-1-2017: Downstream applications

SMEinst-11-2016-2017: Boosting the potential of small businesses in the areas of climate action, environment, resource efficiency and raw materials (inc. Earth Observation). Continuously open call

SC5-20-2016 European data hub of the GEOSS information system



Specific Challenge:

Global approach for sustained operation, continuity & interoperability of the GEOSS information system
Need also to strengthen the access to EO at regional level
To overcome the fragmentation of the European landscape of existing public & private EO data infrastructures
To harvest available resources from relevant GEOSS data infrastructures in Europe and in particular from the distributed Copernicus data infrastructures.



Examples of Involvement of Bulgarian Stakeholders

Raw Materials Commitments:

- *1 RMC led by Bulgarian Partner: "Multiplication of the Bulgarian Sustainable Mining Standard"*
- *4 RMCs with Bulgarian partners: REFLEX, RUBICON, ELTSTANDARD, PLATINUM*

Horizon 2020. 1 Coordination and Support Action:

"IMPACTPaperRec". 4 Partners: 2 SMEs, 2 Municipalities



- **29 November** **"6th EU-US-Japan Trilateral Conference on Critical Raw Materials"** (on invitation only)
- **30 November (morning)** **"Education and training as a vehicle to improve competitiveness and business creation"**, a half day event co-organized with the **EIT Raw Materials**
- **30 November (afternoon)** **"Horizon 2020 Brokerage event"**
- **1 December** **"4th annual High Level Conference of the EIP on Raw Materials"**

Other stakeholders are invited to organise satellite events.

If you would like to add your event to the programme, please contact

GROW-EIP-RAW-MATERIALS@ec.europa.eu

<https://ec.europa.eu/growth/tools-databases/eip-raw-materials/en>



The Raw Materials Strategy: the way forward

Thank you!

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SC5-13-2016-2017: New solutions for sustainable production of raw materials

RIA – €10 million in 2017

- Sustainable selective low impact mining (2016)
- New technologies for the enhanced recovery of by-products (2016)
- **New sensitive exploration technologies (2017)**



SC5-13-2016-2017: New solutions for sustainable production of raw materials

Specific Challenge:

- The **EU is highly dependent on raw materials** that are crucial for a strong European industrial base, an essential building block of the EU's growth and competitiveness. **Securing the sustainable access to raw materials**, including metals, industrial minerals and construction raw materials, and **particularly Critical Raw Materials (CRM)**, for the EU economy is of **high importance**.
- However, the EU is confronted with a number of **technological challenges along the entire raw materials production value chain of primary and secondary raw materials**. There is also a need for clean and sustainable raw materials production solutions to **avoid environmental damage**.
- This specific challenge is identified in the Priority Area **'Technologies for primary and secondary raw materials'** production of the **European Innovation Partnership (EIP) on Raw Materials**.



SC5-13-2016-2017: New solutions for sustainable production of raw materials

Scope:

- develop sustainable systemic solutions through **industrially- and user-driven multidisciplinary consortia** covering the **relevant value chain of non-energy non-agricultural raw materials**.
- Assessment of the related **environmental and safety risks and a plan to communicate** the added value of the proposal **to the local communities and society** for improving public acceptance and trust should be addressed
- **Participation of civil society** from the start of exploration until after-mining activities in a process of co-design, co-development and co-implementation is strongly encouraged.
- **cluster with other projects financed under this topic and – if possible – with other relevant projects** in the field funded by Horizon 2020, in support of the EIP on Raw Materials.
- **international co-operation is encouraged.**

SC5-13 c) New sensitive exploration technologies [2017]

Scope:

- develop **new and more sensitive environmentally sound exploration technologies and solutions** (such as remote sensing technologies, innovative multi-method approaches to reprocess existing or new geophysical data) **able to identify targets for detailed exploration** on the land with lower costs, leading to finding **new deposits** and to **re-assessing** the mineral potential for the EU.
- Any of the **metallic, industrial and/or construction minerals could be targeted**. The **importance of the targeted raw materials for the EU economy** has to be duly **demonstrated** in the proposal.
- include the **participation of technology oriented SMEs**, as far as possible.
- Sea exploration is not targeted by this call.

Indicative size of proposals: EUR 3 to 7 million

Expected TRL: 4-5



SC5-13 c) New sensitive exploration technologies [2017]

Expected Impact: Projects are expected to justify and provide evidence that they lead to:

- achieving the objectives of the EIP on Raw Materials, particularly in terms of ensuring the sustainable supply of raw materials to the EU and improving supply conditions within the EU;
- pushing the EU to the forefront in the area of sustainable exploration technologies and solutions through generated know how (planned patents, publications in high impact journals and joint public-private publications etc.);
- increasing the reserves of various primary raw materials within the EU;
- reducing the exploration costs for the industry through new cost-effective exploration technologies, while safe-guarding environmental stability;
- in longer term improving the competitiveness of and creating added value and new jobs in raw materials producing, equipment manufacturing, information and communication technologies and/or downstream industries;
- improving the awareness, acceptance and trust of society in a sustainable raw materials production in the EU.



SC5-14-2016-2017: Raw materials Innovation actions IA – €56 million in 2017

- Intelligent mining on land (2016)
- **Processing of lower grade and/or complex primary and/or secondary raw materials in the most sustainable ways (2017)**
- **Sustainable metallurgical processes (2017)**



SC5-14-2016-2017: Raw materials Innovation actions

Specific Challenge:

- The **EU is highly dependent on raw materials** that are crucial for a strong European industrial base, an essential building block of the EU's growth and competitiveness. **Securing the sustainable access to raw materials**, including metals, industrial minerals and construction raw materials, **and particularly Critical Raw Materials (CRM)**, for the EU economy is of **high importance**.
- The **challenge for industry is to scale-up promising raw materials production technologies** and to demonstrate that raw materials can be produced in an innovative and sustainable way in order to make sure that **research and innovation end-up on the market**, to strengthen the competitiveness of the European raw materials industries, to meet ambitious energy and climate 2030 targets and to gain the trust of the EU citizens to raw materials sector.
- This specific challenge is addressing **development of the "innovative pilot actions"** which is one of the **major targets of the European Innovation Partnership (EIP) on Raw Materials**.



SC5-14-2016-2017: Raw materials Innovation actions

Scope:

- to develop **innovative pilots demonstrating clean and sustainable production** of non-energy non-agricultural **raw materials in the EU** from primary and/or secondary sources.
- **justify relevance of selected pilot demonstrations, finishing at Technology Readiness Levels (TRL) 6-8, in different locations within the EU** (if justified also outside);
- **facilitate the market uptake of solutions** developed through **industrially- and user-driven multidisciplinary consortia covering the relevant value chain**;
- outline the **initial exploitation and business plans** (with indicated CAPEX, OPEX, IRR and NPV) with clarified management of IPR, and commitment to the first exploitation;
- consider **standardisation aspects** when relevant;



SC5-14-2016-2017: Raw materials Innovation actions

- **assess health, safety and environmental risks and their management**
- **include a plan to communicate the added value of the proposal to the local communities and society** for improving public acceptance and trust should be addressed by all the proposals.
- **Participation of civil society** from the start of exploration until after-closure activities in a process of co-design, co-development and co-implementation is strongly encouraged.
- **seek synergies, including possibilities for funding, with relevant national/regional research and innovation programmes...**
- **cluster with other projects** financed under this topic and – if possible – with other relevant projects in the field funded by Horizon 2020, in support of the EIP on Raw Materials
- **international cooperation is encouraged.**



SC5-14 b) Processing of lower grade and/or complex primary and/or secondary raw materials in the most sustainable ways [2017]

- demonstrate **new systems integrating relevant processing and refining technologies for better recovery of minerals and metals** from low grade and/or complex ores, industrial or mining wastes at **increased efficiency** in terms of better yield and process selectivity.
- The **importance of the targeted raw materials and their sources** for the EU has to be **demonstrated** in the proposal.
- The solution proposed should be **flexible enough to adapt to different ore grades** and should be supported by efficient and robust **process control**.

Indicative size of proposals: EUR 8-13 million
Expected TRL: 6-8



SC5-14 b) Processing of lower grade and/or complex primary and/or secondary raw materials in the most sustainable ways [2017]

Expected Impact: Projects are expected to justify and provide evidence that they:

- contribute to achieving the targets of the EIP on Raw Materials, particularly in terms of innovative pilot actions on processing and/or recycling for innovative production of raw materials;
- improve economic viability and market potential that will be gained through the pilot, leading to expanding the business across the EU after the project is finished;
- create added value and new jobs in raw materials producing, equipment manufacturing and/or downstream industries;
- optimise raw materials recovery (increased yield and selectivity) from low grade and/or complex and variable primary and/or secondary resources;



SC5-14 b) Processing of lower grade and/or complex primary and/or secondary raw materials in the most sustainable ways [2017]

Expected Impact: Projects are expected to justify and provide evidence that they:

- push the EU to the forefront in the area of raw materials processing technologies and solutions through generated know how (planned patents, publications in high impact journals and joint public-private publications etc.);
- lead to unlocking substantial reserves by giving economic viability to new or today unexploited resources within the EU;
- improve the environmental performance, including reduction in waste generation and a better recovery of resources from generated waste;
- improve the health and safety performance of the operations; improve the awareness, acceptance and trust of society in a sustainable raw materials production in the EU;



SC5-14 c) Sustainable metallurgical processes [2017]

- develop **innovative metallurgical systems** integrating pyro-, hydro-, bio-, and/or electro-metallurgical and/or electrochemical technologies, in order to **enhance the production efficiency, metal recovery and selectivity** from primary and/or secondary raw materials.

Indicative size of proposals: EUR 8-13 million
Expected TRL: 6-8



SC5-14 c) Sustainable metallurgical processes [2017]

Expected Impact: Projects are expected to justify and provide evidence that they:

- contribute to achieving the targets of the EIP on Raw Materials, particularly in terms of innovative pilot actions for innovative production of raw materials;
- improve economic viability and market potential that will be gained through the pilot, leading to expanding the business across the EU after the project is finished;
- optimise metal production (increased yield and selectivity) from primary and/or secondary resources, while keeping competitive process performance in terms of resource and energy efficiency;



SC5-14 c) Sustainable metallurgical processes [2017]

Expected Impact: Projects are expected to justify and provide evidence that they:

- push the EU to the forefront in the area of metals processing and refining technologies and solutions through generated know how (planned patents, publications in high impact journals and joint public-private publications etc.);
- create added value and new jobs in metallurgy, equipment manufacturing and/or downstream industries;
- improve the environmental (control of emissions, residues, effluents), health and safety performance of the operations;
- improve the awareness, acceptance and trust of society in a sustainable raw materials production in the EU.



SC5-15-2016-2017: Raw materials policy support actions - CSA

- Expert network on Critical Raw Materials (2016)
- **Good practice in waste collection systems (2017)**
- **Optimising collection of raw materials data in Member States (2017)**
- **Linking land use planning policies to national mineral policies (2017)**
- **EU network of mining and metallurgy regions (2017)**
- **EU network of regions on sustainable wood mobilisation (wood supply) (2017)**

*Projects should include a work-package to **cluster with other projects** financed **under this topic** and – if possible – **with other relevant projects** in the field funded by Horizon 2020, in support of the EIP on Raw Materials



SC5-15 b) Good practice in waste collection systems [2017]

Proposals should cover all the following points:

- **map and assess existing waste collection systems** in a representative set of EU Member States for a **wide range of waste streams**, including packaging and paper waste, and end-of-life products (e.g. electrical and electronic equipment, batteries, transport vehicles, tyres, construction products, furniture);
 - where feasible assess **advantages and disadvantages of different approaches** – including environmental and socio-economic impacts – with quantified **costs and benefits**;
 - **identify good practices** and key elements for effective and efficient waste collection systems, **as well as the barriers for implementation and possible solutions** to overcome bottlenecks taking into consideration the **adaptability of solutions to different regions of the EU**;
 - **validate the identified key elements**, good practices, and the measures to overcome obstacles **by consulting stakeholders** through a participatory approach involving citizens and plan **targeted dissemination actions**.
-
- Indicative size of proposals: EUR 1.5 million
 - Up to one project shall be funded



SC5-15 c) Optimising collection of raw materials data in Member States [2017]

Proposals should cover all the following points:

- **map and analyse the current situation of collection of data** and data sources in all Member States;
- **provide recommendations for improvement of data sets** and for EU level **harmonization** with justified benefits for the EU and the Member States and **taking into account the INSPIRE Directive**;
- **demonstrate the applicability of recommendations** on a number of improved data sets at Member States level. **Improved data sets related to primary mineral raw materials** should include for example: data on mineral occurrences and deposits; economic and technical data on mineral exploration and extraction; data on the environmental and social dimensions of extraction and, minerals intelligence data. **Data sets related to secondary mineral raw materials** should build on raw materials flows at Member state level (Materials Systems Analysis) and be presented in a form of Sankey diagrams. Other data sets on minerals secondary raw materials could also be considered.
- **involve all mandated key players for primary and secondary mineral raw materials** in Member States, including in particular data providers and relevant public authorities and bodies.
- ensure access to **information on how data and best practices will be shared** with the wider EU raw materials community, in particular via the Raw Materials Information System (RMIS).

- Indicative size of proposals: EUR 1.5 million
- Up to one project shall be funded



SC5-15 d) Linking land use planning policies to national mineral policies [2017]

Proposals should cover all the following points:

- review and analyse **how exploration and extraction of mineral raw materials in Member States are integrated in land use planning and practices** at all levels of implementation (national, regional, local) **seeking the harmonization and convergence** in national approaches towards minerals policies and land-use planning policies and practices;
- consider **how to best link land-use planning with the concept of safeguarding valuable mineral deposits** (such as mineral deposits of public importance) in order to ensure the current and future access to the deposits and to **avoid 'land sterilization'**;
- **take into account the following relevant issues:** a) the integration of land use and subsurface planning, b) the assessment of different options for land use where there is no pre-exclusion, c) the INSPIRE Directive, d) information needed in the process, e) e-procedure, f) smart regulation, g) the infrastructure planning and approaches;



SC5-15 d) Linking land use planning policies to national mineral policies [2017]

Proposals should cover all the following points:

- **involve civil society, practitioners, land-use planners and mining public authorities** at local, regional and national levels and develop a **dissemination strategy**;
 - provide **recommendations** and publish guidance documents to promote a **harmonized approach and good practise sharing** among Member States in order to ensure a **more effective access to raw materials**;
 - **build on** the report '**Recommendations on the framework conditions** for the extraction of non-energy raw materials in the European Union' (2014) of **the Ad-Hoc Working Group on exchange of best practices** on mineral policy and legal framework, information framework, land-use planning and permitting.
-
- Indicative size of proposals: EUR 1.5 million
 - Up to one project shall be funded



SC5-15 e) EU network of mining and metallurgy regions [2017]

The purpose is to create a **sustainable EU network of regions dedicated to mining (including exploration), processing and metallurgy** aiming at **improving related framework conditions, social aspects and industry competitiveness**.

Specifically, this network **should cover all the following points:**

- establish **coherent co-ordination and support mechanisms among** a representative number of **EU regions**, and identify and engage the other relevant EU regions;
- establish the **right raw materials framework conditions based on good practices** in the addressed regions, **including** administration, land use planning, investment conditions, training and attracting skilled workforce;
- define **Social Licence to Operate (SLO) guidelines** and develop a **toolbox improving communication and transparency** during the **permitting and licensing** procedures and in the **production** cycle (from exploration, mine operation to rehabilitation and residues and tailings management) by **mobilising all the concerned EU's stakeholders** (relevant authorities municipalities, mining and other relevant companies, civil society organisations and local communities) which can be affected by a mining project.
- **explore and promote** in and across the regions **potential synergies** between raw materials, value chains, market and societal players in order to **create new business opportunities and economic growth**;



SC5-15 e) EU network of mining and metallurgy regions [2017]

- plan and establish operational **synergies between R&I investments (public and private) and the European Structural and Investment Funds (ESIF)** to strengthen **competitiveness of the industry**, through different improved **R&I infrastructure and capacity** and to **foster market uptake** and replication of innovative solutions in the relevant fields;
- perform **communication activities** across the EU to present, challenge and validate the **outputs of the project**;
- **involve** relevant competent authorities, private sector, research and academic organisations, civil society and experts in relevant social sciences and humanities. **Participation of regional authorities from all the regions addressed in the proposal is compulsory**;
- **identify synergies** and **collaborate closely with the relevant established or new initiatives at the EU and national levels**, such as EIP on Raw materials and KIC on Raw materials and link to circular economy and resource efficiency policies;
- use a **multidisciplinary approach**, involving in particular social sciences and humanities, in order to better understand the different aspects of Social Licence to Operate (SLO) in mining in a given cultural context. Proposals should also **benchmark the EU SLO guidelines and initiatives with those developed internationally** (Canada, Australia, USA, etc.).

- Indicative size of proposals: EUR 3 million
- Up to one project shall be funded



SC5-15 f) EU network of regions on sustainable wood mobilisation (wood supply) [2017]

The objective is to **create a European network of regions for improved and sustainable supply of primary wood raw material** that will contribute to improved **industrial competitiveness and rural development**, whilst preserving EU forest ecosystems and forests' capacity to deliver all their economic, social and ecological functions, and ensuring **consistency with relevant EU policy goals** (e.g. EU Bioeconomy Strategy, 7th Environmental Action Programme, EU Biodiversity Strategy, EU Forest Strategy, EU Nature legislation; EU climate policy). **The network's activities shall cover all the following points:**

- establish **coherent co-ordination** and support mechanisms **among** a geographically and socio-economically representative **number of regions**, and **identify and engage other** relevant EU regions;
- plan and establish **operational synergies between R&I investments** (public and private) and the European Structural and Investment Funds (ESIF), notably European Agricultural Fund for Rural Development (EAFRD), to **facilitate uptake and replication of innovative solutions**;
- identify, exchange and widely disseminate **good practices** (replicable between the regions) in the area of sustainable wood mobilisation with an aim **to establish the right framework conditions**. This should build on the European Commission/Forest Europe/UNECE/FAO 'Good practice guidance on sustainable mobilisation of wood in Europe' and relevant projects (such as SIMWOOD), and contribute to the strategic orientations of the EU Forest Strategy;



SC5-15 f) EU network of regions on sustainable wood mobilisation (wood supply) [2017]

- explore and promote **potential synergies** between materials, value chains, markets and societal players in order to create new business opportunities and economic growth;
- **identify synergies and collaborate closely with the relevant established or new initiatives** at the EU and national levels, such as the EIPs on Raw Materials and for Agricultural Productivity and Sustainability.

The **areas of focus** for the regional network activities should **at minimum cover**: (a) forest ownership and land tenure, sustainable forest management, administration, co-ordination and planning, including silvicultural measures; (b) infrastructure and logistics; (c) organisation and transparency of the markets; (d) financing sourcing, legal and fiscal measures; and (e) education, training and skills.

Participation of competent regional authorities relevant to sustainable wood mobilisation is required, notably in the context of establishing **operational synergies** in the research and innovation area. Participation of **relevant competent authorities and actors for sustainable wood mobilisation**, e.g. chambers of agriculture and forestry, forest owners/managers associations, academia, research technology platforms/centres, and EU stakeholder organisations, **is encouraged**.

- Indicative size of proposals: EUR 1.5 million
- Up to one project shall be funded



SC5-16-2016-2017: Raw materials international cooperation - CSA

- Demand-supply forecast and raw materials flows at global level (2016)
- Advancing the idea of a World Forum on Raw Materials (2016)
- **International network of raw materials training centres (2017)**



SC5-16 c) International network of raw materials training centres [2017]

Proposals should:

- create a **self-sustainable long-term lasting international network of training centres for professionals.**
 - involve **educational and research institutions in the EU and the leading counterparts in third countries**, based on specific country **expertise in the primary and secondary raw materials sectors.**
 - **map skills and knowledge in the EU and the third countries, identify key knowledge gaps and emerging needs**, develop **roadmap** for improving skills and knowledge,
 - **establish common training programmes** in the raw materials sectors.
 - **International collaboration is required.**
 - where appropriate, **synergies with the relevant EU Member States initiatives** are to be explored and fostered.
- Indicative size of proposals: EUR 1 million