



EIP and H2020: the Role of Slovakia

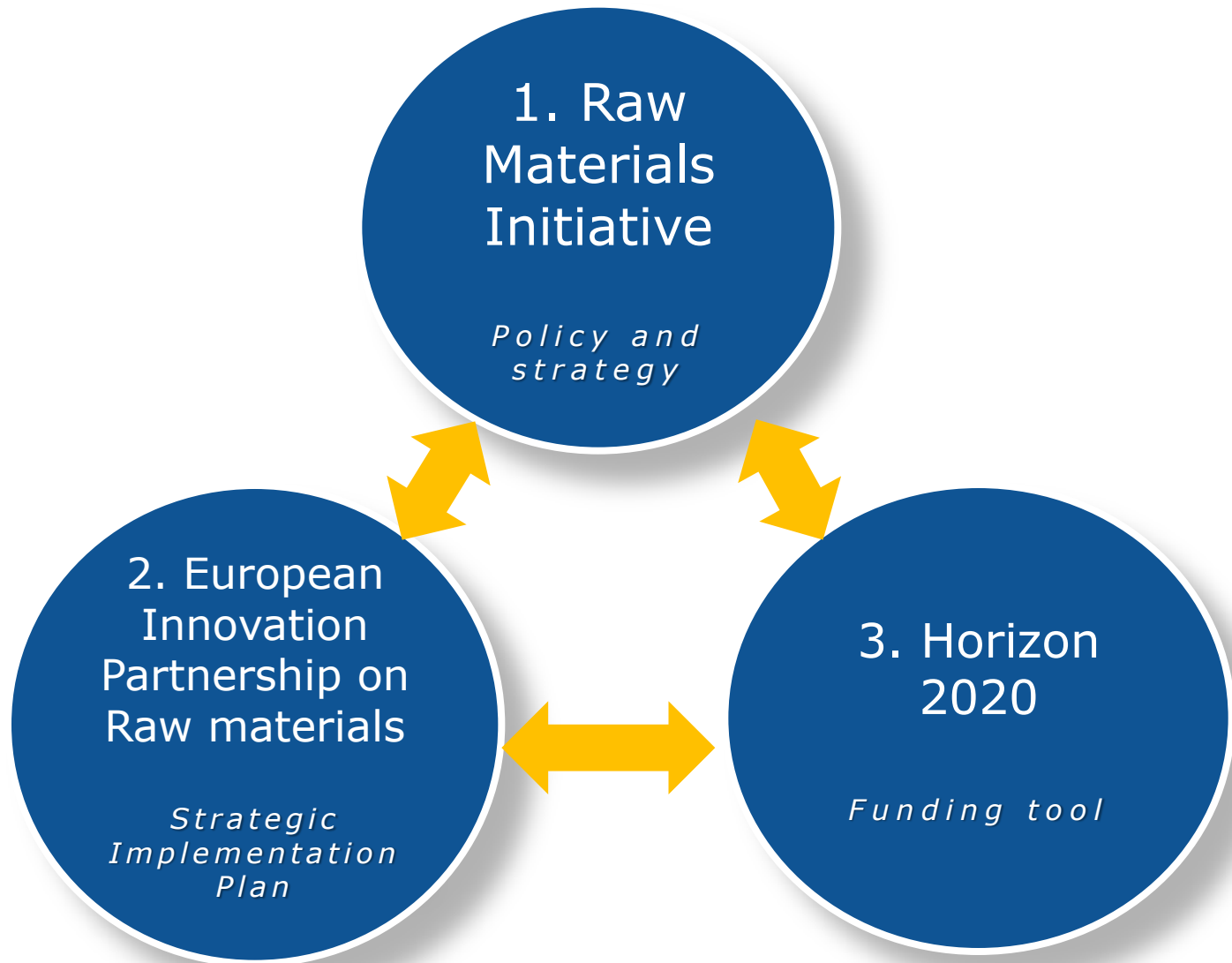
Sustainability of Mineral Resources and the Environment

Bratislava, 21st – 22nd November 2016

Mattia Pellegrini

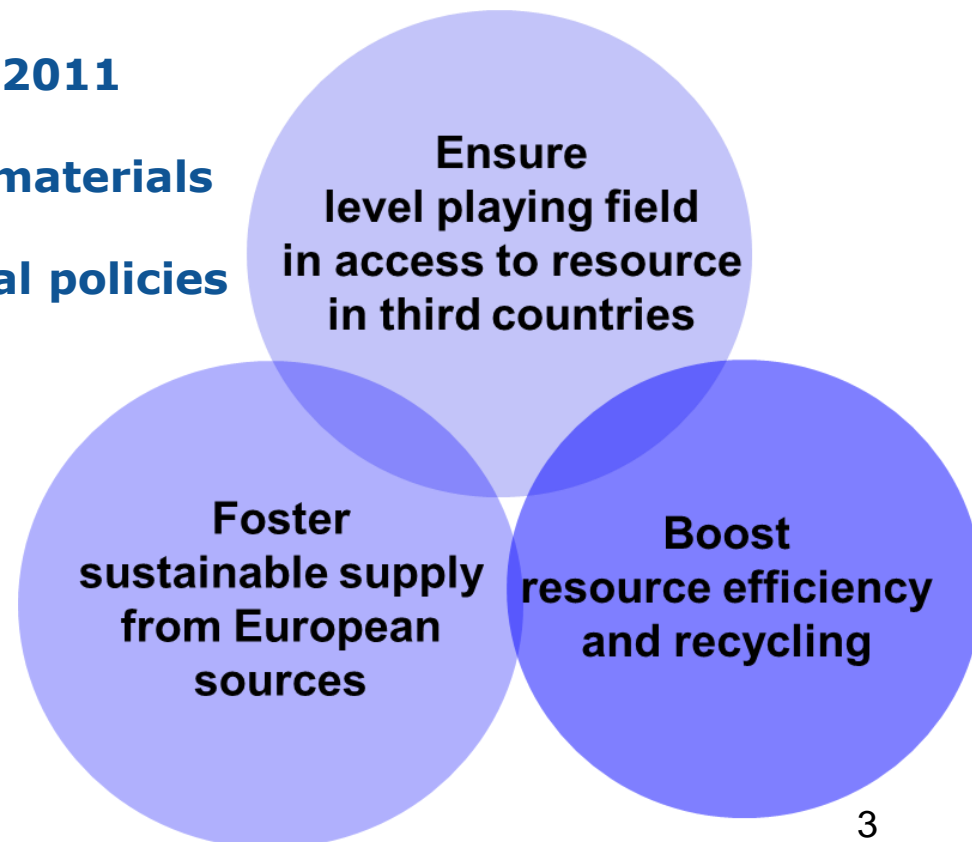
Head of Unit for Raw Materials, Metals, Minerals and Forest-based Industries at the European Commission's Directorate General for Internal Market, Industry, Entrepreneurship and SMEs. **European Commission**

EU Raw Materials Framework



EU “Raw Materials Initiative”

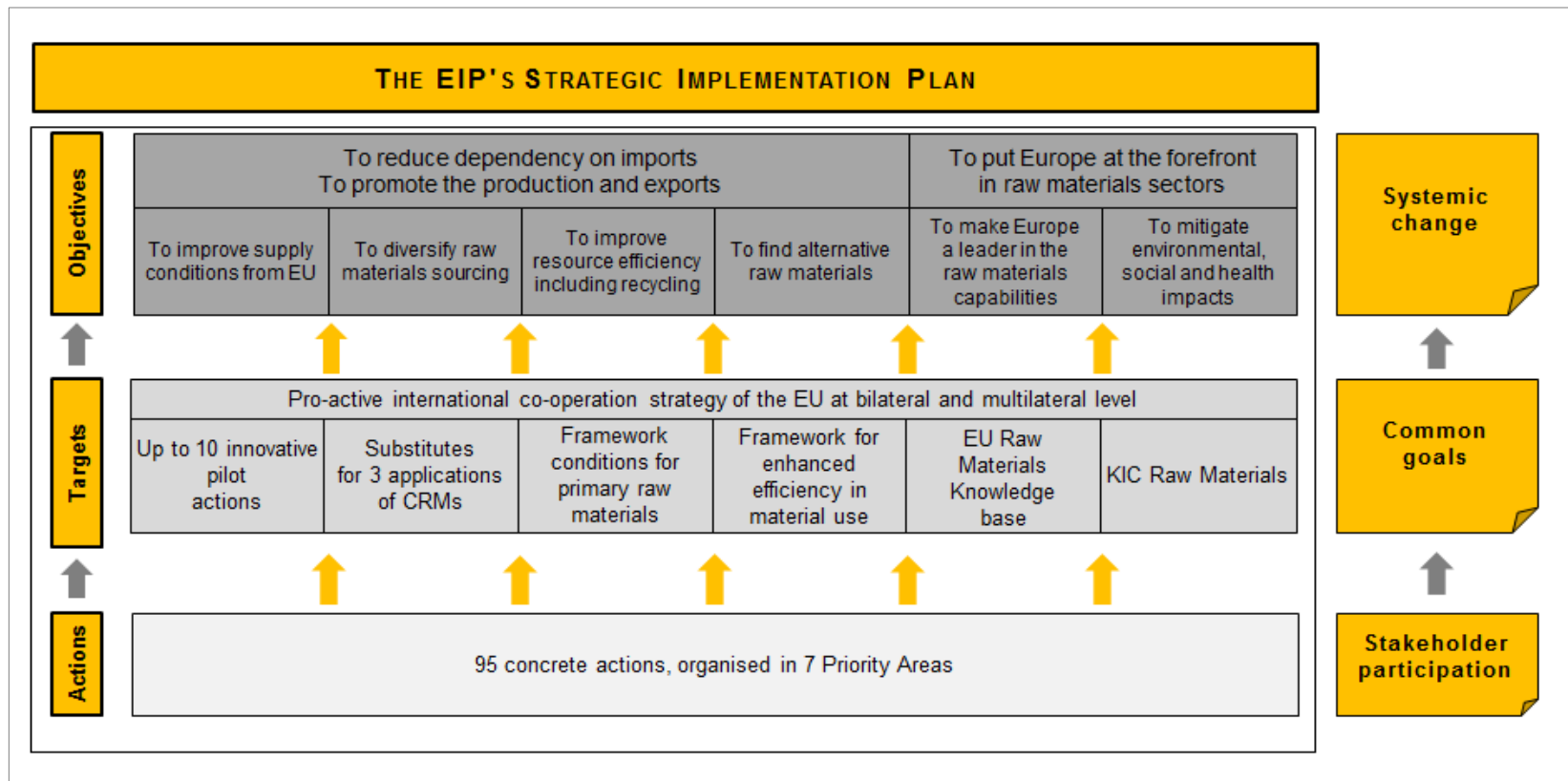
- **Aim: securing sustainable supplies of raw materials**
- **Launched in 2008, consolidated in 2011**
- **Non-energy, non-agricultural raw materials**
- **Connecting EU external and internal policies**
- **Integrated strategy (3 pillars)**
- **Introduced list of Critical Raw Materials (CRM) in 2010,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



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

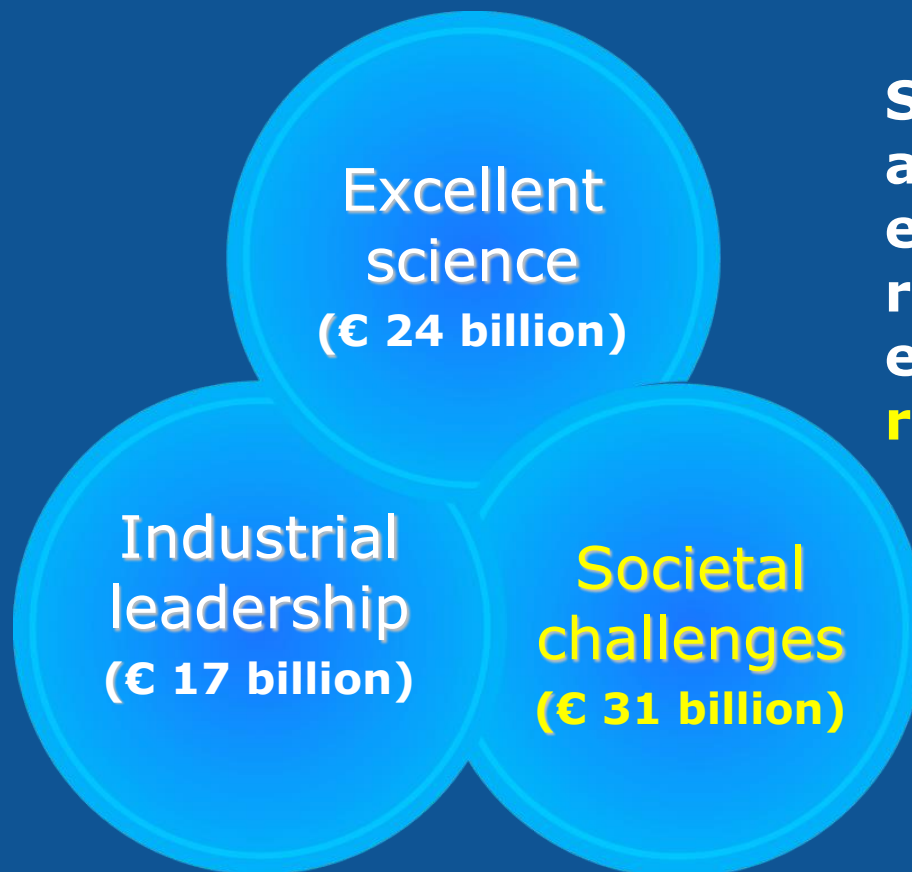


The role of Slovakia in the EIP

- Member of High Level Steering Group: Minister of Environment of the Slovak Republic Peter Žiga (Sherpa: Vojtech Ferencz)
- Involvement in Raw Materials Commitments:
 - 2013: OPTIMIN_2020, EUMINET, ENTRIE, IMPACT, ERAMIN, SAFE & PRODUCTIVE MINING WASTE FACILITIES, ALBATROSS, PLATINUM, PolymetOre, BioMOre, EUROPEM, MaCooP, EQUATOR, INCOMES
 - 2015: InPhosphoChlor, INTERMIN, ORAMA, SAFEMIN

Horizon 2020

Context and overview



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

The role of Slovakia in H2020

Slovakia has three projects ongoing with three different partners:

- CHROMIC (2016): with the Technical University of Košice (TUK) as a partner. CHROMIC aims to develop highly selective metal recovery technologies processes for critical and economically valuable by-product metals from secondary resources.
- INREP (2014): with the Slovak University of Technology in Bratislava (STUBA) as a partner. The goal of INREP is to develop valid and robust alternatives to Indium based transparent conductive electrode materials as electrodes.
- MINIATURA 2020 (2014): with the State Geological Institute of Dionýz Štúr (SGUDS) as a partner. The objective of MINIATURA 2020 is to develop a concept and methodology for the definition and protection of "mineral deposits of public importance" to ensure their best use in the future.

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



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)**

SC5-14-2016-2017: 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)**

SC5-15-2016-2017: 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

EU raw materials:

http://ec.europa.eu/growth/sectors/raw-materials/index_en.htm

EIP on Raw materials:

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

Horizon 2020 - Raw materials webpage:

<http://ec.europa.eu/programmes/horizon2020/en/area/raw-materials>

Horizon 2020 – EXPERTS:

<http://ec.europa.eu/research/participants/portal/desktop/en/experts/index.html>

EIT Raw materials: www.eitrawmaterials.eu



EIP and H2020: the Role of Slovakia

Thank you!

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