

# Thematic Smart Specialisation Platforms for Industrial Modernisation.

Expression of Interest:  
Extractive industry and value  
chain, 1st draft

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# Description of the proposed subthema/focus area

- Definition of extractive industry: Any processes that involve the extraction of raw materials from the earth to be used by consumers. The extractive industry consists of any operations that remove metals, mineral and aggregates from the earth.
- Our focus:
  1. Mining industry
    - Metallic ores
    - Industrial minerals

# Description of the proposed subthema/focus area

2. Natural stone industry
  - Construction stones
  - Other products: fireplaces etc.
  
3. Related industries and services
  - Machinery, subcontracting industry (e.g. drilling)
  - Supporting services

# Description of the proposed subthema/focus area

Relevance of the topic :

- Towards self-sufficiency in EU

increased domestic production of raw materials (e.g. the rare earth minerals) and better use of secondary raw materials (circular economy)

- Digitalisation

Industry 4.0. and automated mines, the changing nature of work and needs for education and training

# Description of the proposed subthema/focus area

- Service providers in extractive industry

EU is behind competitors in global context, the increasing role of service providers through digitalisation

-> more competitive, innovative, sustainable and growing industry

# Description of the proposed subthema/focus area

- Key themes:
  - SMEs and Global Value Chains
  - sustainability :
    - water management, resource and energy efficiency
  - social acceptance
    - Mitigation of environmental, social and health impacts
  - education and training:
    - digitalisation & Industry 4.0 -> automated mines and the content and nature of the work in the future

# Involvement in the design/implementation of RIS3 in the region/Member State

- Regional Council of North Karelia implements RIS3 in the region
- Extractive industry is one of the key themes in North Karelia's strategy
- Support from the Regional Council of North Karelia for JOSEK Ltd. to coordinate S3 platform
- Letters of support from the regions in consortium

# Transformative nature/aims of the proposal

## In general

- The Smart Specialisation Platform **aims to support EU regions committed to generate a pipeline of industrial investment projects following a bottom-up approach**
- interregional cooperation and **an active participation of industry and related business organisations such as clusters, as well as research institutions, academia and civil society.**
- Aims to create an investment pipeline of mature projects in new growth areas across the EU



# Transformative nature/aims of the proposal

## **Extractive industry**

- To strengthen the regional and interregional innovation capacity to facilitate investments, growth and employment
- To spread knowledge and best practises of regions to foster investments
- To support regional growth and investment opportunities through interregional networking

# Transformative nature/aims of the proposal

- REMIX, Mireu: from commitments towards operationalisation
- Key regions in extractive industry in EU involved in the consortium
- Business approach through experience : SME value chain, the needs of extracting industry
- The consortium will identify key themes to focus on, e.g.:
  - SMEs and Global Value Chain (local knowledge on the needs of SMEs)
  - Sustainable extracting industry (resource efficiency, circular economy)
  - Social acceptance (commitment of civil society)
  - Education and training (digitalisation and Industry 4.0)

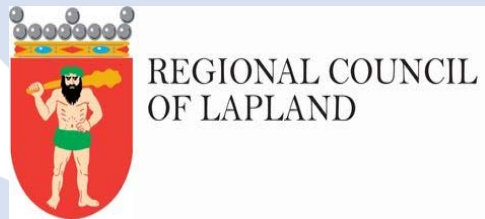
# Main challenges that may be addressed through interregional collaboration

- Identification of key themes to tackle in extractive industry
- The evidence from regions
- Critical mass to develop European level actions
- Representatives from stakeholder groups: businesses, academia and public authorities in the consortium
- Different aspects of extractive industry represented in the consortium

# Commitment and political support

- Regional Council of North Karelia's letter of commitment
- Letters of commitment from each partner

# Other regions and their interest



# Support from businesses, academia and civil society

## **Businesses:**

- Euromines representing the European extractive industries
- Finnish Mining Association (FinnMin) covering the extractive industry in Finland,
- JOSEK Ltd. as a regional development company covering the local SMEs and large enterprises

## **Academia:**

- Geological Survey of Finland (GTK)
- University of Eastern Finland (UEF)
- University of Lapland
- Karelia University of Applied Science

# Support from businesses, academia and civil society

## **Civil society :**

- The work of UEF and LAU on the commitment of civil society in extractive industry, The Finnish Network for Sustainable Mining

# Implementation and milestones

## Phase 0 – Preparatory steps for setting up a Thematic Area

- Regions interested in setting up a new Thematic Area are invited to contact JRC. The regions can benefit from the service of a RIS3 expert helping them to develop a scoping note for the new interregional partnership. The scoping note will define the key objective of the partnership as well as a first draft action plan of the work to be performed by the partnership.





# Implementation and milestones

## Phase 1 – Mapping of competences and matching of business opportunities

- This phase would generally include 2 steps:
  - Mapping: by means of a survey to collect original data in the participating regions about the business actors present in the different parts of this value chain, the strengths of the research and relevant available innovation infrastructure.
  - Matching: by means of analysis of complementarities and challenges and mobilisation of entrepreneurial actors.



# Implementation and milestones

## Phase 2 – Industrial cooperation and design of concrete investment projects

- Regions and member states work together with their stakeholders to identify and design concrete investment projects.
- Such projects can be joint large-scale demonstrators, shared technology centres, other cross-regional projects, small projects bundled together in 'investment platforms', single cross-regional large scale projects, or large-scale individual projects to be developed across European industrial value chains. The organisation of partnering and matchmaking events for industrial partners will be important in order to discuss, facilitate and accelerate the development of joint industrial investment projects.



# Implementation and milestones

## Phase 3 - Business Plan and Funding mix

- Industrial stakeholders supported by their regional authorities and EU support actions should develop a business plan and explore funding opportunities for financing their projects, looking at synergies among various funding sources.
- Investment plan : combination of different EU investment instruments, such as the European Structural and Investment (ESI) Funds, COSME, Horizon2020 and the European Fund for Strategic Investments (EFSI).

