



Mining Regions of EU – Good practices and lessons learnt

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REMIX and MIREU were initiated by **Regional Council of Lapland** after discussions with DG GROW in 2015

→ EIP Raw Materials Commitment February 2016

- Regions involved started to find ways to improve raw materials value chain related policies and actively deploying the synergies between regional development programmes and strategies such as smart specialisation
- **S3 Industrial Modernisation – Mining industry**
- INTERREGIONAL LEARNING - MINING RELATED POLICIES



European Union
European Regional
Development Fund



Research and
innovation



SME
competitiveness



Environment and
resource efficiency



Low-carbon
economy



REMIX regions

LAPLAND - Regional Council of Lapland FI *

CASTILLA Y LEÓN - Institute for Business Competitiveness of Castilla y León, ES

NORTH KARELIA – Business Joensuu (Regional Development Company), FI

LOWER SILESIA - Marshal's Office of Lower Silesian Voivodeship PL

AUSTRIA - Montanuniversität Leoben, AT

CENTRO REGION - Faculty of Sciences and Technology, NOVA University of Lisbon, PT

CZECH REPUBLIC - Ministry of Industry and Trade of the Czech Republic

SOUTH WEST OF ENGLAND - The University of Exeter UK – Cornwall, UK

STEREA ELLADA - National Technical University of Athens NTUAEL, GR

ADVISORY PARTNER - The Freiberg Geocompetence Center - **SAXONY**, DE

Regional stakeholder work

Communicating the achieved knowledge and good practices and utilising it for the improvement of the policy instrument.

Interregional learning and knowledge transfer

through project meetings, workshops, peer review visits and two mining conferences



- Project meeting: workshop, peer review visit & steering group meeting
- Peer review visit: includes a site visit
- Mining conference

PHASE 1

REMIX
Interreg Europe

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REMIX Good practices

Every Interreg Europe projects collects
REMIX targets 20 / 30

Why? Supporting the interregional learning process, Learning from each other,
Adapting policies from other regions

REMIX Good practices

- Mining heritage: increasing awareness of mining now and then, understanding the meaning of mining in every day life, public communication and social acceptance
- Environmental values: rehabilitation, reconsiliation with other industries, circular economy, development of technology
- Policy (making) models and clusters

List of Good practices

1. MineFacts: Building the social license to operate by offering facts on exploration and mining
2. The on-line database with geochemical maps of selected areas in Lower Silesia
3. Revitalisation of a closed coal mine into a living science and art centre
4. Mining cluster Castilla y León
5. **Lavrion Technological and Cultural Park (LTCP)**
6. REMINE - Valorization of mining and other mineral wastes into construction materials
7. Remediation of abandoned mines in Centro Region of Portugal: Urgeiriça uranium mining area example
8. Establishing the Gold Mine tourist complex in Złoty Stok
9. **The Austrian Minerals Plan (AMRP)**
10. Mining heritage as a new purpose of Czech - Polish cross-border tourism
11. The Man Engine
12. Wheal Jane Earth Science Park: post-mining business regeneration
13. **Cornwall Mining Alliance**
14. SANTA BÁRBARA FOUNDATION: R&D and training for productivity and safety in the mining sector
15. The Phocis Mining Park - Vagonetto
16. Min-Guide: Key innovations in exploration & extraction
17. Public provision of mining information by Austrian institutions
18. Systematic thematic development of mining, metallurgy & raw materials conditions in the region
19. Mining Lands Castilla y León– Program of actions for unemployed, companies and entrepreneurs
20. **“Copper. A history of the extraordinary metal” exhibition in the Copper Museum in Legnica**

Mining heritage

“Copper. A history of the extraordinary metal” exhibition in the Copper Museum in Legnica

- An educational programme **for children and youth to increase knowledge about raw materials and their role in the modern world** and raise awareness of the significance of raw materials and the possibilities of their use for better development of European regions.
- **Popularising mining among the general public**, especially young generation
- Show the role of raw materials in the modern world as the key element of the development of knowledge-based circular economy.
- **Innovative teaching methods** for presenting attractiveness and diversity of mining, strengthening the key competencies of children and students: creativity and entrepreneurship as the necessary skills in their further professional life and overcoming mining stereotypes.
- The exhibition is based on the museum's extensive collections and exhibits focused on the **presentation of copper and its use over history**. The traditional museum exhibition is accompanied by multimedia presenting knowledge in modern ways: the multimedia
- "World without resources" game, 3D HTC goggles showing a virtual mine and holograms presenting contemporary miners and their equipment.

Lavrion Technological and Cultural Park (LTCP)

- **The Pb and Ag mines** of Lavrion dated in classical antiquity and after centuries of mining and metallurgical inactivity become operative in the late 1890's.
- Lavrion became **one of the most important industrial centers in Greece** suffering a **severe degradation of the environment** due to the intense mining and metallurgical activity.
- Lavrion faced several cycles of crisis ceased its operation during the late 1980's ending up only with environmental issues and a bleak economic prospect.
- Between 1994 and 1997 a rehabilitation program was designed and deployed by National Technical University of Athens, transforming the old mine complex into the Lavrion Technological and Cultural Park (LTCP), **a body of scientific research, education, business and culture**.
- "Soil Rehabilitation and supplemental infrastructure at LTCP" to conduct a vital environmental intervention on a heavily polluted site like LTCP.
- Nowadays the services provided by LTCP in its renovated facilities, support research, education and technology. LTCP is the only Technology Park in Attica, which specializes in areas - **keys of modern applied technology, such as information, electronics, telecommunications, robotics etc, restoring Lavrion back to its rightful leading position**.

Policy (making) & cooperation models + clusters

The Austrian Minerals Plan (AMRP)

- **A national master plan to secure supply of mineral resources and to serve as a planning basis for future mining innovations in Austria.**
- Often mineral occurrences are in contradiction with **land use planning**. Some occurrences, proved as worth to be protected to not coinciding with conflict zones in land use and innovation. The safe and sufficient minerals supply is a core task of the extractive industry.
- The purpose of the AMRP was to perform the groundwork in preparation for activities by private enterprises. This involved **identifying potential raw materials zones** (Phase 1) and then after carefully weighing up competing land use interests in a mineral planning process designed to avoid conflicts with raw materials extraction, **enshrining these zones in regional planning to ensure their conflict free future use** (Phase 2).
- This requires the protection of deposits by the federal government and provinces by means of measures to safeguard raw materials, which is done either on a demand – or supply-oriented basis.

Policy (making) & cooperation models + clusters

Cornwall Mining Alliance

- **The CMA clusters 90 mining-related businesses/organisations** in Cornwall and facilitates contact for export, innovation, business expansion and networking.
- Point of contact or hub for the small businesses related to mining in Cornwall
- Reaching the businesses with information on innovation or export opportunities and to **facilitate networking**
- Cornwall is **famous as a UNESCO World Heritage mining site** but the contemporary mining sector was not as well recognised.
- The Cornwall Mining Alliance provides **a single contact for information** that can be distributed to all members quickly and effectively, and a single 'shop window' for anyone worldwide to see businesses and sectors in Cornwall.
- The networking activities encourage mining alliance members to work together, **including making consortia to be able to tackle larger contracts.**

Actions plans

REMIX partner regions develop action plans to be implemented and monitored in next two years

Actions plans will provide details on HOW the lessons learnt from the cooperation will be exploited in order to improve the policy instrument tackled within that region.

The action plan specifies:

1. The nature of actions to be implemented
2. The time frame of actions
3. The players involved
4. The costs (if any)
5. The funding sources (if any)

2nd REMIX mining conference

REMIX International Mining Conference 15.5.2019

Organised By: Marshal's Office of Lower Silesian Voivodeship



The conference will tackle the challenges faced by raw materials sector in Europe smart and green innovations presented by successful business practitioners and observed development trends and possible scenarios for the future of the European industry

International Mining Conference Wednesday, 15 May 2019

Venue: Wrocław, Sikorskiego Street 2-8 – KGHM CUPRUM NOVUM building

Moderation: Ilari Havukainen, Regional Council of Lapland

08:15 – 08:45	Registration
08:45 – 09:15	Welcome speech
09:15 – 11:00	Session 1 – <i>What kind of challenges is the raw materials sector faced with in Europe?</i> – overview from different perspectives Summary – questions and comments
11:00 – 11:20	Coffee break
11:20 – 13:00	Session 2 – <i>Is the European mining smart and green?</i> – innovations generating development Summary – questions and comments
13:00 – 14:00	Lunch
14:00 – 15:30	Session 3 – <i>Where does the future of the European mining and raw materials sector lie?</i> – REMIX partner's presentation on the project's conclusions Summary – questions and comments
15:30 – 16:00	Summary and closure of the conference

Thank you!

Questions welcome



European Union
European Regional
Development Fund

<https://twitter.com/REMIXmining>



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