

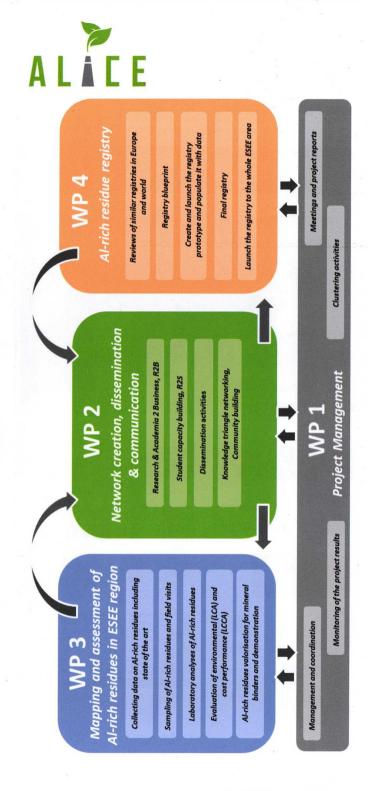
Motivation

Huge amounts of various Al-rich residues (steel slags, red mud, ashes, landfills of bauxite mines) with low recycling rate or landfilled in RIS countries present high secondary mineral resources potential. A promising way of recycling these waste mineral materials is the synthesis of sustainable mineral binders with high Al content, which can be further used as environment friendly construction material.

On the other hand, high Al content is the main pain point for the production of Al-rich mineral binders, according to high need of valuable natural resource bauxite. In RIS-ALICE, this challenge will be successfully overcome by the replacement of bauxite with Al-rich industrial and mine residues. Moreover, this approach will represent an innovative recycling case study for the ESEE region.

Goal

Creation of a **network of relevant stakeholders** in the area of currently unused and landfilled Al-rich industrial residues and contribution to the **increase of the innovation potential and competitiveness** of the ESEE region. By **interlinking local partners**, Al-rich residues valorisation for innovative mineral binder and the upgradeable online registry the sustainable mineral resource management in the ESEE region will be enhanced.





Impact

- ⇒ **EU** by **encouraging circular economy** and thus enhancing the raw materials self-supply
- ⇒ EIT Raw Materials by implementation and promotion of sustainable raw materials management, introducing innovative raw materials recycling approaches to the ESEE region and by setting up and strengthening the networks between waste producers and mineral end-users
- ⇒ RIS-ALICE consortium by creating new business opportunities with focus on advanced and sustainable solutions for handling the Alrich residues in an environmentally friendly way

Contact



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- ⇒ establishes the long-term network between the producers/holders and the end-users of Alrich industrial residues
- ⇒ valorizates the Al-rich residues by production of environmental friendly high-Al mineral binder on data from Slovenia, Hungary and Bosnia and Herzegovina
- ⇒ **transfers knowledge** from Slovenia, Hungary and Bosnia and Herzegovina to the whole ESEE region
- ⇒ implements the circular economy and zerowaste management for Al-rich industrial residues in ESEE region

Project Data

Project Duration:	Mar 2019 - Feb 2022
Project Budget:	932.339,00 €
Project Coordinator:	Slovenian National Building and Civil Engineering Institute (ZAG)

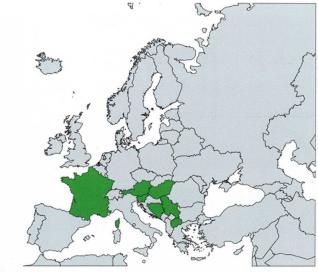








Consortium Map



Project Partners



























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LUCIS



RIS-ALICE: Al-rich industrial residues for mineral binders in ESEE region



