



InSGeP

INVESTIGATIONS OF SLAGS FROM NEXT GENERATION STEEL MAKING PROCESSES

The InSGeP project explores the impact of next-generation steel production using DRI, HBI, and their combinations with scrap across various processes, emphasizing slag quality and its utilization routes. The project characterizes the next generation slag that is scarcely available in the world, and very limited in Europe. In addition, slags are produced during the project at different scales—laboratory, pilot, and industrial—to assess utilization pathways. The findings provide valuable insights for EU steelworks transitioning to decarbonized steel production processes.



Technical achievements of the project over the past two years:

- Slag **collection** from diverse continents
- Slag **granulation**
- Sample **preparation** in **different scales**
- Sample **analysis**



In InSGeP, **4 newsletters** were published, **1 workshop** held, **webpage** and **LinkedIn** regularly updated with posts.

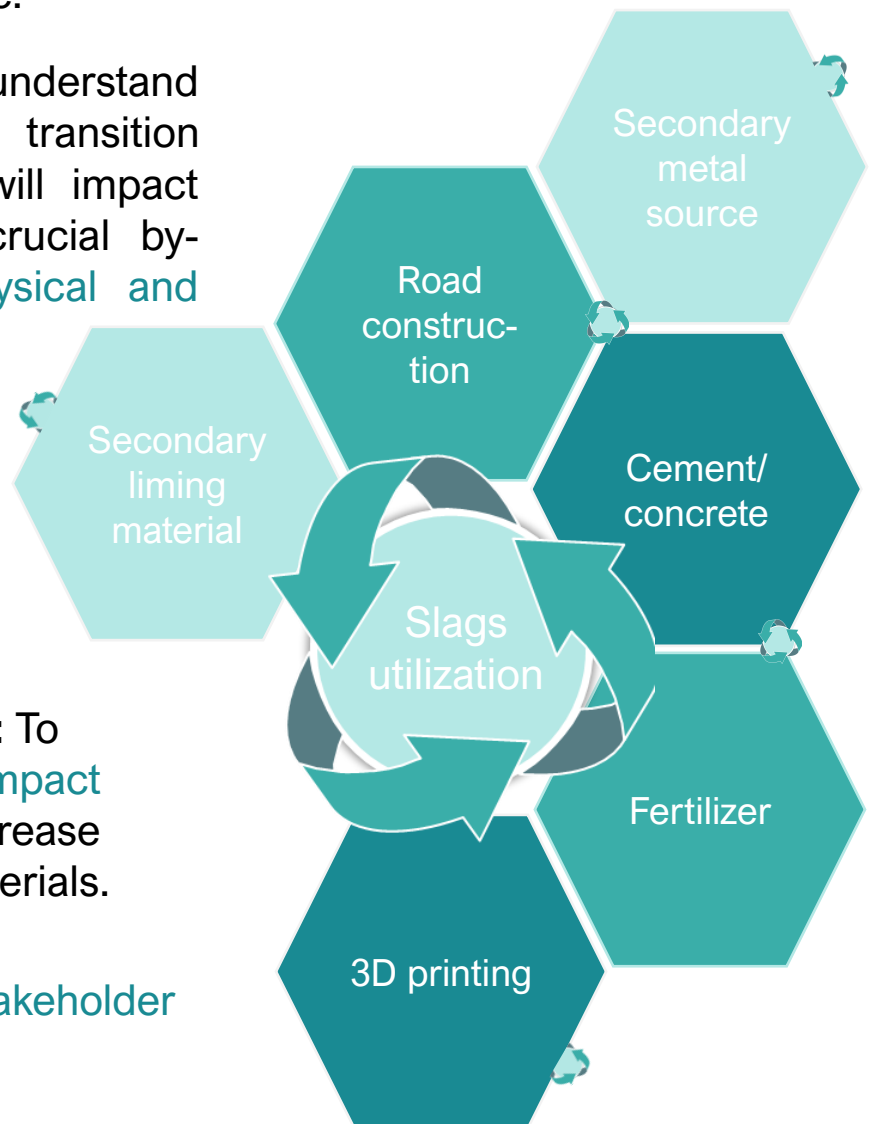


The project receives funding from the European Union's Research Fund for Coal and Steel research programme under grant agreement number 101112665.

Project Objectives

The followings are objectives which InSGeP project aims to achieve.

- **Technical objectives:** To understand how the steel industry's transition towards **decarbonization** will impact the slag valorization, a crucial by-product, including its **physical and chemical properties**, and to identify processes to modify slag for integration into current utilization pathways.
- **Economic objectives:** To create a product from slag.
- **Environmental objectives:** To reduce the **environmental impact** of steel production and decrease the utilization of natural materials.
- **Social objectives:** To build community trust through **stakeholder** interaction.



TRANSFORMING RESIDUES INTO RESOURCES

START DATE | 01-07-2023

PROJECT DURATION | 48 months

TOPIC | RFCS-02-2022-RPJ

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