

## GEORIS CONSORTIUM



KU LEUVEN



MONOLITHOS  
CATALYSTS - RECYCLING - INNOVATION



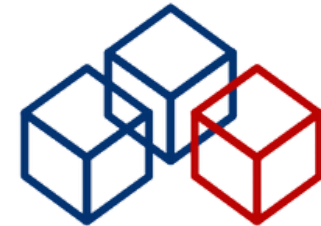
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**GEORIS**

INNOVATIVE TECHNOLOGIES FOR WASTE  
PROCESSING IN ESEE REGION

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INNOVATIVE  
TECHNOLOGIES FOR WASTE  
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Project Duration: 2022-09-01 - 2024-08-30

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## PROJECT DESCRIPTION

GEORIS will apply a novel geopolymerization technology to produce environmentally sustainable construction materials and catalytic powder from industrial waste. Target customers are public authorities responsible for infrastructure development, construction companies, and industrial waste providers. The project is co-funded by the EIT RawMaterials

## OBJECTIVES

### GEORIS AIMS TO

Transfer and apply a novel geopolymerization technology, to showcase its competitive advantages in applications of urban infrastructure and buildings.

- This will improve waste management and limit landfilling by 20 tons during the project and up to 800 tons per year by 2030.

Accelerate the commercialisation potential of the geopolymerization technology to the automotive sector, paving the ground for further business development

- Engage beneficiaries from across the value-chain to facilitate the transition to full-scale commercial production of the GEORIS catalytic powder.

## EXPECTED RESULTS

- Production/placement of 250 m<sup>2</sup> of pavement blocks, ~30% reduction of CO<sub>2</sub> emissions.
- Production of 20m<sup>2</sup> pavement blocks and 5 m<sup>2</sup> fire-resistant panels that will be applied in construction projects
- Production of geopolymerized powder to substitute 50-60% of Platinum Group Metals (PGMs) in automotive catalysts.
- >8 mining companies, mines, and waste management businesses adopting the GEORIS technology on waste valorization by 2030.
- >500-600 beneficiaries reached through awareness-raising activities and >50 aftermarket catalytic converters manufacturers identified.
- >40 stakeholders engagement