ZeroWaste-NoI

**EIT RawMaterials Commitment**

**ZeroWaste Networks of Infrastructure**

### Background and objectives

ZeroWaste-NoI embraces a flexible infrastructure for ZeroWaste mining and recycling:
- Removing the (toxic) contaminants
- Recovering the valuable materials
- Converting the remaining matrix material into useful products (often construction)
- Providing safe sinks for unavoidable remnants of the above three steps

The EIP Commitment aims to boost innovation in resource recovery and waste recycling through European wide collaboration, by hiving the infrastructure and skills regarding solids and liquids processing, metallurgy and mineral technology amongst selected consortia of core actors in the field.

### ZeroWaste-NoI partnering

- Gather waste stream owners from the supply side and material resource users from the demand side to meet intermediary technology SMEs and RDIs bridging both sides of the value chain
- Provoke industrial innovation, by offering access to key infrastructures and services by acting as a broker among partners and between partners and customers
- Stimulate smart specialisation by co-ordinating investment strategies within the network and Europe, to fill infrastructure gaps by initiating new pilot actions

The integration of the individual NoIs in the overarching ZeroWaste network offers the perspective of a self-sufficient network, as companies will be able to find tailored solutions to sustain and grow their business.

### ZeroWaste-NoI cluster

Sustainable mining & recycling for feeding and closing cascaded material & product cycles in a viable, growing circular economy

**Complex, low grade ores and residues containing base and critical metals**

- **Pre-treatment & separation**
  - PreFlex
    - VITO
    - KU LEUVEN
  - Inspire
    - KU LEUVEN

- **Metal extraction & recovery**
  - Solvoflex
    - VIT
    - VITO
  - Electroflex
    - VITO
  - BioFlex
    - VITO
  - Pyroflex
    - VITO
  - ResiduFlex
    - KU LEUVEN
  - Matrix conversion
  - Residue Matrix Valorisation

**New Metalurgical Technologies**

- SSIC
- Industrial symbiosis
- ERMAT
- Höganäs