

VTT's Raw Materials Commitment

Päivi Kinnunen, Justin Salminen and Olli Salmi

RMC: Metal recovery from low grade ores and wastes



I Technology pillar

I.B. Priority area: Technologies for primary and secondary raw materials' production
Action area n° I.4: Processing and refining of raw materials



OBJECTIVES

- To improve recovery of metals from low grade ores and industrial residues
- To improve resource efficiency in downstream processing

ACTIVITIES

- Hydrometallurgical process development for leaching of metals from low grade ores and industrial residues
- REE recovery
- Bioleaching of phosphorus from non-conventional resources
- Bioprocessing
- Metals recovery from tailings and complex sources
- Water recycling in hydrometallurgical processes

IMPACTS

- Resource efficiency
- Supply of metals from unconventional resources
- Valorization of waste materials
- New value chains and business creation