



C R I T I C A L R A W M A T E R I A L S



Unlocking the potential of mining waste facilities through a standardised and transferable methodology that ensures a comprehensive assessment of their reprocessing feasibility



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Sibermine Zeining



Universidad de Oviedo

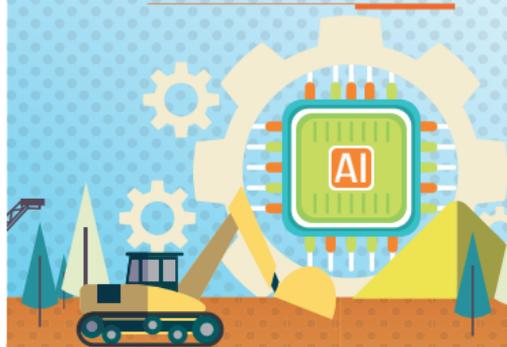
THE SOLUTION FOR THOSE TONS OF VALUABLE MINERALS THAT REMAIN UNEXPLOITED IN OLD MINING WASTE STOCKPILES, INCREASING EUROPE'S DEPENDENCE ON IMPORTED CRITICAL RAW MATERIALS

## FAST-PATH ASSESSMENT



A RAPID ASSESSMENT METHODOLOGY TO DETERMINE THE ECONOMIC, ENVIRONMENTAL, AND TECHNICAL VIABILITY OF MINING WASTE VALORISATION

## AI-POWERED DIGITAL PLATFORM



A SMART DIGITAL PLATFORM INTEGRATING AI TOOLS FOR DATA ANALYSIS, DECISION-MAKING, AND MONITORING OF MINING WASTE FACILITIES



A CIRCULAR APPROACH THAT MINIMISES ENVIRONMENTAL IMPACT, PROMOTES BIODIVERSITY, AND FOSTERS COMMUNITY ACCEPTANCE OF MINING ACTIVITIES.



## ENVIRONMENTAL & SOCIAL BENEFITS

INNOVATIVE AND SUSTAINABLE TECHNOLOGIES FOR THE EXTRACTION AND PROCESSING OF CRITICAL RAW MATERIALS FROM MINING WASTE.



## SUSTAINABLE EXTRACTION & PROCESSING