

ADVANCING RESILIENT CRITICAL RAW MATERIALS SUPPLY WITH AI-DRIVEN ROBOTICS

1.CLOSING THE LOOP ON CRMS

Critical Raw Materials (CRMs) are essential for electronics, automotive products, and sustainable technologies. Europe's reliance on distant, unstable sources puts supply chains at risk. As demand grows, **urban mining** can help bridge the gap.

3.KEY TAKEAWAYS

- Machinery for smart waste sorting
- **Suite** for waste perception
- **Platform & tool box** for holistic AI, Data & Robotics (ADR) solutions deployment
- **Collaborative-Robots** for dismantling solution
- **Database** for CRMs in waste streams
- Strategies for lifelong Machine Learning

2.SMART SCALABLE SOLUTIONS

Harnessing Al-powered robotics, the innovation project iBot4CRMs is collaborating to maximize the recovery and recycling of CRMs from:

ELV²

WEEE³

Metal Scraps

Incineration Slag

Urban Waste

ELV²: End-of-life e-Vehicles WEEE³: Waste of Electronic and Electrical Appliances

The initiative is creating scalable technologies and validating them across seven real-world scenarios focused on recovering several CRMs:











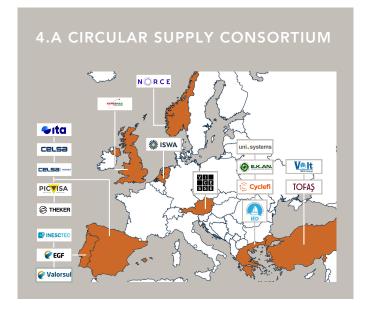














5.URBAN MINING FOR SUSTAINABILITY

Through urban mining to complement external sources, the project will help Europe achieve resilience and competitiveness in the supply of CRMs, tackling challenges in the Critical Raw Material Act & European Green Deal.

Funding: € 9 558 276,25

Period: Dec 24 - Nov 28

Funding: Digital, Industry and Space



in & X : @iBot4CRMs

: info@ibot4crms.com

: ibot4crms.com

