



iBot4CRMs

ENHANCING EUROPE'S RESILIENCE IN CRITICAL RAW MATERIALS SUPPLY THROUGH AI-DRIVEN ROBOTICS

WEBSITE



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Securing CRMs supply

Europe currently relies on distant external primary sources of Critical Raw Materials (CRMs), making their supply chain vulnerable to disruptions. With Europe's growing demand for these materials in electronic and automotive products manufacturing, it is essential to secure Europe's supply in the years to come.

Smart scalable solutions

iBot4CRMs will maximize the recovery and recycling of critical raw materials like neodymium, copper, gold or silver, from urban waste by using integrated AI-powered robotics.

The innovation project will develop scalable technologies through 4 large scale pilot sites from key waste management sectors — car disposal and recycling, urban waste, and electric motor recycling — in Spain, Portugal, Greece and Turkey.

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. Key to sustainable technologies and decarbonization, this initiative tackles challenges in the Critical Raw Materials Act and European Green Deal.



Consortium:
18 partners



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