



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

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SECURING CRMS SUPLY

Critical Raw Materials (CRMs) are vital for automotive electronics, products, sustainable technologies. Yet Europe depends on a few distant suppliers, leaving its supply chain vulnerable. As demand grows, securing a stable CRM supply has become a priority, one that urban mining can help address.

SMART SCALABLE SOLUTIONS

Harnessing integrated Al-powered robotics, iBot4CRMs aims to maximize the recovery and recycling of CRMs (like neodymium, magnesium, copper, gold, tin, silver etc.) from urban waste.

The innovation project will develop scalable technologies and test them across seven realworld scenarios, focusing on end-of-life evehicles, electronic and electrical waste, metal scraps, incineration slag, and other urban waste streams.

URBAN MINING FOR SUSTAINABILITY

Critical raw materials are key to sustainable technologies driving decarbonisation. With AI and robotics, iBot4CRMs will make sorting and recovery safer and more efficient. This will help Europe stay resilient and competitive in its CRM supply, supporting the Critical Raw Materials Act and the European Green Deal.





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