



Robotics and AI as Enablers for Greener Dismantling, Remanufacturing and Recycling

-ROB4GREEN-

Meet our Open Call #1 Projects!

-REVIVE-

ROB4GREEN is pleased to announce the pilot projects selected for funding under its first Open Call. Following a competitive evaluation, eight consortia were awarded financial support to develop and demonstrate robotics, AI and data-driven solutions that make dismantling, remanufacturing and recycling cleaner, safer and more resource-efficient.

Each project runs its pilot with technical, business and mentoring support from the **ROB4GREEN** partners, and its results feed directly into the project's mission of accelerating the green and digital transition of European industry. This announcement introduces **REVIVE**, one of the eight projects funded under Open Call #1.





REVIVE Vision

ROB4GREEN harnesses robotics and AI to drive greener dismantling, remanufacturing and recycling in European manufacturing. Within Open Call 1, **Challenge C#3 – AI, Data and Robotics for Parts Harvesting – the REVIVE pilot targets end-of-life light e-mobility devices such as e-scooters and hoverboards, whose valuable components are lost to shredding today, building on ROB4GREEN’s O2S and Digital Product Passport technology blocks.**

REVIVE unites three partners: Bendabl (Greece), consortium leader, contributing robotics integration, custom end-effectors and mixed-reality interaction; Plaixus (Cyprus), providing AI perception, Digital Twins and DPP data integration; and HRC (Polygreen group), one of Greece’s largest WEEE processors, hosting and validating the pilot.

REVIVE develops a collaborative robotic workstation for selective parts harvesting from end-of-life e-mobility devices, to be validated at TRL7 at HRC’s operational WEEE facility. Combining RGB-D and thermal perception, X-ray-enriched Digital Twins, Digital Product Passports, a hybrid multi-tool end-effector and mixed-reality operator supervision, the system robotizes routine dismantling while operators handle only complex cases – reducing human-hours per device and recovering valuable motors, batteries and electronics that shredding destroys.



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