



Robotics and AI as Enablers for Greener Dismantling, Remanufacturing and Recycling -ROB4GREEN-

Meet our Open Call #1 Projects! -PARTNER-

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 **PARTNER**, one of the eight projects funded under Open Call #1.



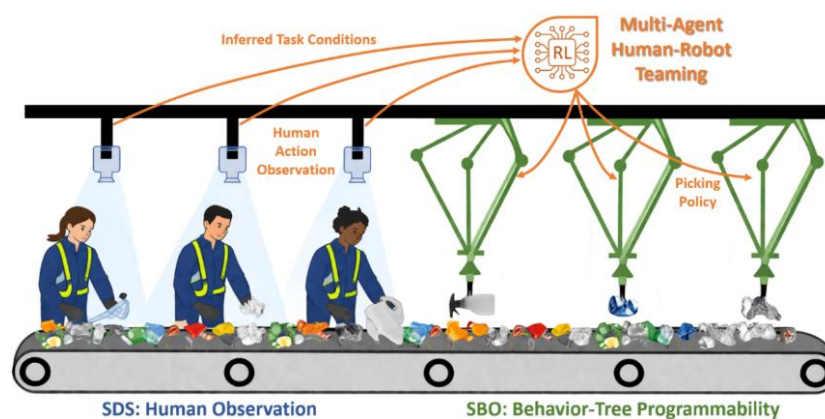


PARTNER Vision

PARTNER is one of the external pilots funded by the **ROB4GREEN** project to reduce barriers to the circular economy in Europe. It aims to improve the performance of Material Recovery Facilities (MRFs) by addressing the lack of coordination between human and robotic waste sorters working on the same processing line. **PARTNER** uses ROB4GREEN technologies to (i) assess worker fatigue and sorting workload in real time and (ii) dynamically adjust robot picking priorities, ensuring that the most valuable materials are recovered even during peak loads or fluctuations in human worker performance.

PARTNER is implemented by a three-member consortium combining industrial, technological, and scientific expertise in waste sorting. HERRCO contributes its three-robot MRF, ROBENSO develops adaptive robot coordination based on human performance, and FORTH provides expertise in fatigue assessment and multi-agent collaboration.

PARTNER focuses on optimizing the allocation of picking capacity provided by all agents on a sorting line, implementing team-enhancing policies that dynamically adapt robotic sorting activities to complement human work. This represents a major step forward for the waste recovery sector by significantly enhancing economic viability of MRFs and transforming waste treatment from a necessary but inefficient process into a high-performance, value-generating operation. *The **PARTNER** solution will be demonstrated at HERRCO's operational MRF under real industrial conditions.*



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