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

-ROB4GREEN-

Meet our Open Call #1 Projects!

–AGRI-SORT–

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 **AGRI-SORT**, one of the eight projects funded under Open Call #1.

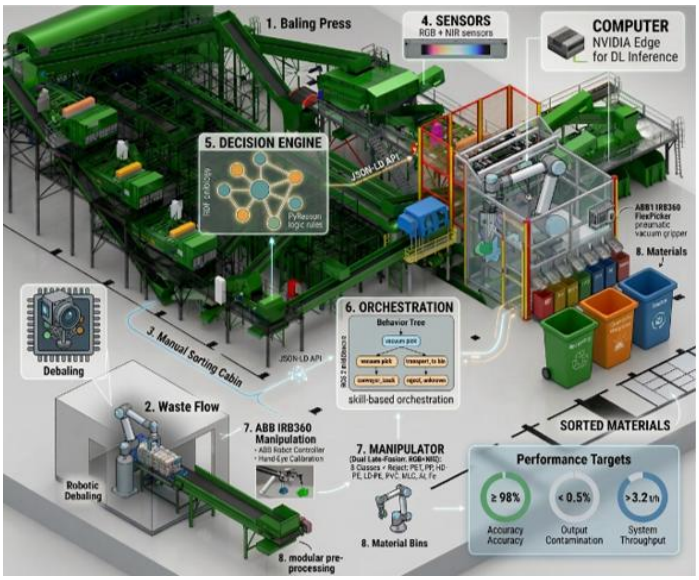
This project has received funding from the European Union's Horizon Europe research and innovation programme under Grant Agreement No. **101189665**.

AGRI-SORT Vision

AGRI-SORT is an innovative pilot project funded through the **ROB4GREEN** Open Call under the Horizon Europe programme. The project develops an AI-powered robotic solution for automated sorting of recyclable materials from mixed municipal waste. By combining artificial intelligence, advanced vision systems and robotics, AGRI-SORT aims to improve sorting efficiency, material recovery and sustainability, contributing to Europe's green and digital transition.

The **AGRI-SORT** consortium brings together three partners from Slovakia and the Czech Republic, combining industrial expertise with academic research. VÚMZ SK leads the project and integrates the solution, SAKO Brno provides the industrial validation environment, and the Slovak University of Agriculture in Nitra contributes expertise in AI, machine learning and data analysis.

AGRI-SORT is developing an intelligent robotic sorting cell capable of automatically identifying and separating recyclable materials from municipal waste streams. The solution combines dual RGB and near-infrared imaging, deep-learning algorithms running on edge AI hardware, and an ABB FlexPicker robot to achieve fast and accurate sorting. The system will be demonstrated at SAKO Brno's operational sorting facility, aiming to improve material recovery, reduce contamination, enhance worker safety and lower operational costs while supporting Europe's green and digital transition.



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