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

ROB4GREEN | OCTOBER 2026

Welcome to our 2nd NEWSLETTER!

Welcome to the second edition of the **ROB4GREEN Newsletter!** As the project moves from initial designs and prototypes into practical implementation, we are pleased to share the latest steps towards AI-powered, circular manufacturing.

This edition highlights our first project review, the eight selected Open Call pilots now implementing their ideas, and new cooperation and dissemination activities across Europe.

The ROB4GREEN Project Team

A Positive First Review and Clear Next Steps

ROB4GREEN successfully held its **1st Review Meeting in Brussels**, where the consortium presented the project's progress, latest technological developments and industrial use cases to the Project Officer and reviewers. The discussions covered AI-based planning, robotic Re-X processes, inspection and monitoring tools, digital traceability and human augmentation technologies. The meeting also provided valuable feedback and recommendations for the next project activities.

Building on the constructive discussions, ROB4GREEN is moving forward with the **integration, validation and demonstration of its solutions in real industrial environments**, supporting greener and more sustainable manufacturing.



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

FROM PLANNING TO IMPLEMENTATION
The project is advancing its robotic technologies while eight externally funded pilots extend their application to new circular-economy challenges.

Open Call #1: Meet the Selected Pilots

After 90 applications from more than 30 countries, eight projects were selected across four challenges. **EUR 2.4 million** in funding supports their practical AI and robotics demonstrations.

90	8	EUR 2.4M
APPLICATIONS	SELECTED PILOTS	CASCADE FUNDING

Challenge 1: Life Extension (Repairing)

LIFE EXTENSION
Inspection, repair and longer product life

DAD-AGV

Mobile robotic die repair combining additive manufacturing, AI-based repair planning and reduced manual handling.

Explore the pilot

PAIRWELD

Field-deployable collaborative robotic welding for repair of crane rails and damaged heavy industrial structures.

Explore the pilot

Challenge 2: Value Retention (Refurbishing & Remanufacturing)

VALUE RETENTION
Refurbishing, remanufacturing and repurposing

FlexiBAT

AI-driven robot-assisted repurposing of end-of-life electric vehicle batteries into second-life energy storage systems.

Explore the pilot

FIBROBOT

Robotic handling and creative reuse of deadstock textiles for circular products in fashion and furniture.

Explore the pilot

Discover more at rob4green-project.eu/open-calls-2/

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Eight Pilots, Four Circular Challenges

Meet the four remaining projects selected under the Parts Harvesting and Decommissioning & Recycling challenges.

Challenge 3: Parts Harvesting

PARTS HARVESTING
Selective recovery of valuable components

REVIVE

Collaborative robotic workstation to recover valuable components from end-of-life light electric mobility devices.

Explore the pilot

CIRCULAI

AI agents and Digital Product Passports guiding value-based parts harvesting from end-of-life computers.

Explore the pilot

Challenge 4: Decommissioning & Recycling

DECOMMISSIONING & RECYCLING
Safe dismantling and improved material recovery

AGRI-SORT

Intelligent robotic sorting of municipal waste plastics using AI vision to improve recycling and material recovery.

Explore the pilot

PARTNER

Multi-agent human-robot teamwork to improve waste sorting efficiency at operational materials-recovery facilities.

Explore the pilot

PHASE 2 | IMPLEMENTATION

The selected consortia are working on development, integration and validation of their solutions with industrial end users. ROB4GREEN partners provide mentoring and technical support throughout the June 2026 - March 2027 implementation window.

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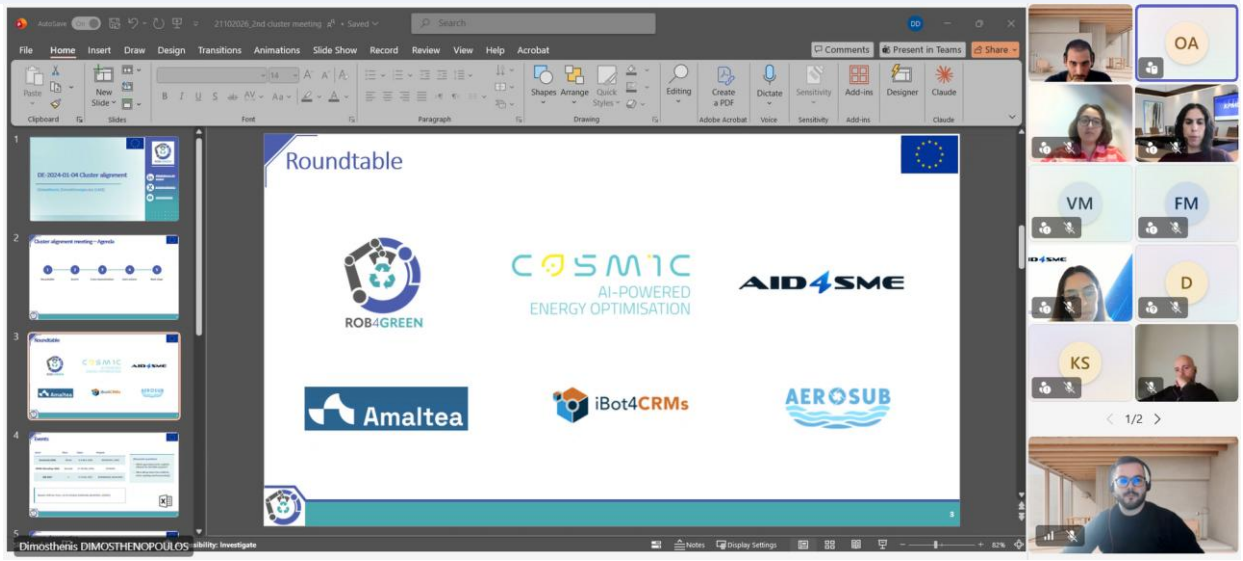
Clustering: Stronger Together

In **October 2026**, ROB4GREEN held a follow-up clustering meeting with its sister Horizon Europe projects. The exchange focused on project updates, shared interests and opportunities to continue cooperating on dissemination, knowledge exchange and future joint activities.

OUR SISTER-PROJECT NETWORK

iBot4CRMs | **AEROSUB** | **AMALTEA** | **AID4SME** | **COSMIC**



TECHNICAL EXCHANGE | 17 SEPTEMBER 2026

ROB4GREEN also joined the TORNADO Technical Exchange Session with six fellow robotics projects, discussing perception, manipulation, adaptation and reliable system integration across different sectors.

Dissemination Highlights

03-04 JUN



3rd General Assembly | San Sebastian

Hosted by TECNALIA: partners reviewed technical developments, pilots, Open Calls and upcoming activities.

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23-24 SEP



ESAIM 2026 | Palaiseau

Project partners contributed two research papers on AI-based Re-X decision support and flexible robotic control.

30 SEP-01 OCT



European Big Data Value Forum | Galway

F6S promoted ROB4GREEN within the wider European AI and data innovation ecosystem.

MORE ON THE BLOG

New technical articles have shared progress on skill-based robot orchestration, intelligent waste recovery, battery reuse and flexible circular automation.



Blog post



Blog post



Blog post



Blog post

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Blog post



Blog post

What's Next?

As ROB4GREEN continues its second implementation period, the consortium will focus on technology integration, industrial testing and expanding the use of AI-driven robotics in circular processes.



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