



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

-ROB4GREEN-

Meet our Open Call #1 Projects!

-FIBROBOT-

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





FIBROBOT Vision

Industrial textile deadstock represents a valuable yet largely underused resource for circular manufacturing. **FIBROBOT**, an external pilot of **ROB4GREEN**, addresses this Challenge by exploring how AI, robotics, and computational design can enable intelligent material analysis, sorting, and repurposing. The project contributes to **ROB4GREEN Challenge #2 by developing data-driven approaches for value retention and circular textile manufacturing**.

FIBROBOT is a multidisciplinary consortium bringing together a technology provider, a leading textile manufacturer, and a research institution to develop innovative solutions for circular textile manufacturing. AIVOX leads the AI and robotic system development; COLOMBO Industrie Tessili provides the industrial use case and manufacturing environment; and the Circular Fashion Tech Lab at the Department of Design, Politecnico di Milano contributes expertise in circular and computational design, process design, and human-centred innovation.

FIBROBOT is developing an integrated manufacturing architecture that combines AI, computer vision, collaborative robotics, and computational design to repurpose industrial textile deadstock into engineered materials. Structured around three interconnected processing stations coordinated by a Computational Design and Process Intelligence Layer, the pilot aims to demonstrate how intelligent automation, material traceability, and adaptive manufacturing can support more efficient, scalable, and circular textile production.



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