



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

-ROB4GREEN-

Meet our Open Call #1 Projects!

-FlexiBAT-

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





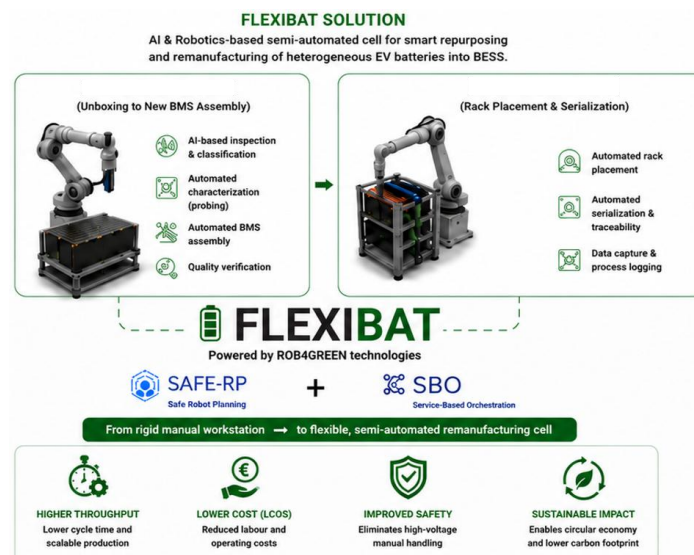
FlexiBAT Vision

FlexiBAT is an innovative pilot project funded through the **ROB4GREEN** Open Call under the Horizon Europe programme, addressing circular economy challenges in battery repurposing. It focuses on the automated remanufacturing of end-of-life EV battery modules into second-life BESS applications. The project leverages ROB4GREEN technologies, including AI-based perception, skill-based orchestration (SBO), and SAFE-RP motion planning, to enable flexible, safe and scalable robotic processes in highly variable industrial environments.

The consortium brings together complementary expertise: ASAI (coordinator) leads system integration and robotic automation; BeePlanet Factory acts as industrial end-user, providing use case, validation environment and market perspective; ITA contributes research excellence in AI, perception, robotics and system validation.

FlexiBAT develops an AI- and robotics-based semi-automated cell for battery module remanufacturing, addressing the limitations of manual, costly and hazardous processes. The solution combines visual and electrical inspection, AI-driven classification and decision-making, and flexible robotic handling orchestrated through SBO and SAFE-RP. It enables efficient processing of heterogeneous battery modules, improving throughput, safety and material recovery, while supporting scalable industrial deployment and contributing to more sustainable energy storage value chains.

Stay connected with ROB4GREEN to discover the latest pilot developments, project results, and innovations driving the green and digital transition of European manufacturing.



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