



Business Support on Your Doorstep



PAL

Project Idea	Next-Gen Collaborative Robotics for Resilient Industry: Leveraging AI-powered mobile manipulators (TIAGo Pro) and high-performance legged platforms (Kangaroo) to automate complex intralogistics and assembly tasks. Focus: Seamless human-robot collaboration (HRI), autonomous navigation in unstructured environments, and rapid skill acquisition through generative AI and foundation models.
Organization name	PAL Robotics Barcelona, Spain
Addressed topic(s)	HORIZON-CL4-2026-01-DIGITAL-EMERGING-51 HORIZON-CL4-2026-02-DIGITAL-EMERGING-53



PAL

Collaborative Projects

We cooperate with other European partners in order to boost innovation in several fields through more than 25 EU-funded projects.

Horizon Europe / Eureka / FSTPs / CDTI / Spanish Ministry



R&D Projects

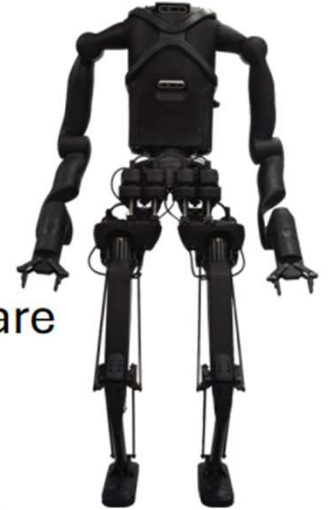
Healthcare Projects

Industry Projects

Agri-food Projects



The project idea



- **Technology Provider & Integration Partner** We are looking for consortia with research centers and end-users (e.g., automotive, logistics, or process industry) to provide state-of-the-art robotic hardware and software integration.

Proposed Contributions:

- Providing and customizing versatile **platforms** like **TIAGo Pro** for mobile manipulation and **Kangaroo** for humanoid integration in industrial settings.
- **AI & Perception Integration:** Implementing deep-learning-based perception, SLAM, and whole-body control algorithms.
- **Industrial Validation:** Supporting pilots by integrating robots into existing factory landscapes and validating human-centric AI interaction.
- **Standardization & Exploitation:** Leveraging our experience in over 15 ongoing EU projects to lead/support on technology transfer and industrial uptake.

Competences



<p>Navigation</p> <p>SLAM Navigation Localization</p>	<p>Software</p> <p>DevOps Continuous integration Perception</p>	<p>Embedded</p> <p>Motor & Sensor Control boards Connectivity</p>	<p>HRI</p> <p>Social AI Human Perception Interaction Design</p>	<p>Control</p> <p>Real Time Manipulation Walking</p>
<p>Electronics</p> <p>Firmware Sensor boards Integration</p>	<p>Mechanics</p> <p>Bio-inspired and actuation designs Integration</p>	<p>Ad-Hoc Projects</p> <p>Flexibility Adaptation Customized solutions</p>	<p>Support</p> <p>Training sessions Technical assistance SW Integration</p>	<p>Community</p> <p>Collaboration Open Source Dissemination & Events</p>



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