

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

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



European
Innovation
Council



R&D Projects



Healthcare Projects



Industry Projects



Agri-food Projects



The project idea

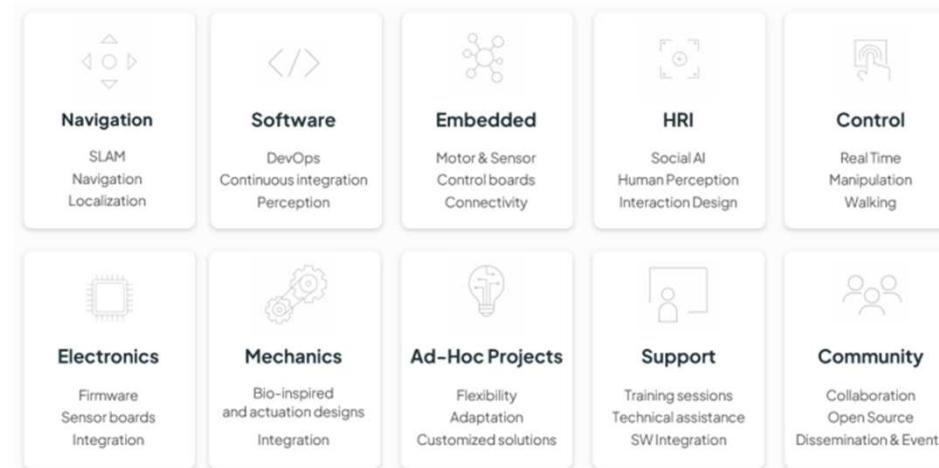


- **Technology Provider & Integration Partner** We are looking for consortia with research centers and end-users (e.g., automotive, logistics, or process industry) to provide state-of-the-art robotic hardware and software integration.

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





Business Support on Your Doorstep

Contact details

Contact person

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