THE CONSORTIUM

LORTEK
MEMBER OF BASQUE RESEARCH & TECHNOLOGY ALLIANCE

LMS
Laboratory for Manufacturing Systems & Automation

netcompany
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DGH ingeniería mantenimiento industrial

FundingBox

GIZELIS ROBOTICS

TU/e EINDHOVEN UNIVERSITY OF TECHNOLOGY

DIGITAL FOR PLANET

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COROB Project

corob-project.eu

Funded by the European Union

COROB

COOPERATIVE ROBOTICS POWERED BY AI AND DATA FOR FLEXIBLE PRODUCTION CELLS

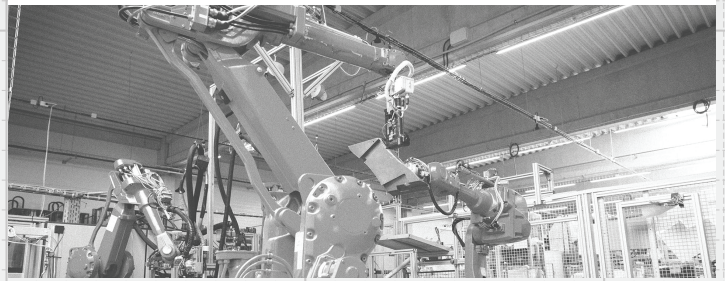
OUR VISION

COROB aims to develop a flexible, cooperative and intelligent multi-robotic solution for arc welding-based manufacturing processes (joining and additive manufacturing), to offer new operational capabilities that allow to increase the efficiency and improve the flexibility of industrial processes.

COROB, conceived as a global solution, will employ a cooperative multi-robot system powered by Inspection, Monitoring, Control and AI techniques to optimize the welding process, and the adjacent manufacturing stages for time, cost, energy, and resource reduction.

The data generated will be processed in a data acquisition platform to feed the AI technologies, addressing optimisation, search, planning, and analysis, ensuring AI robustness and trustworthiness.

The flexible solution will be validated in 2 semi-industrial pilots for automotive sector (Multi-robot cooperative arc welding) and toolmaking industry (Multi-robot cell for tooling repair using WAAM).



OPEN CALLS

The purpose of the Open Call is to integrate and test innovative solutions within the COROB project's framework. This initiative aims to enhance the efficiency and flexibility of arc welding-based manufacturing processes by employing a cooperative multi-robot system powered by Inspection, Monitoring, Control, and AI techniques.

Scan to learn more about the open call opportunities

1st Funding Instrument: **150 000 €**

SOLUTION TO CHALLENGES

Integration and testing of innovative technologies to add new capabilities on top of the project use cases.

Type of applicants: Single applicants. Technology developers and integrators, SMEs and Start-ups.

2nd Funding Instrument: **100 000 €**

EXPERIMENTS FOR ENABLING TECHNOLOGIES FOR DIGITAL SERVICE

Integration and test innovative enabling technology to provide a digital service applicable in the project use cases.

Type of applicants: Single applicants. Technology developers and integrators, SMEs and Start-ups.