

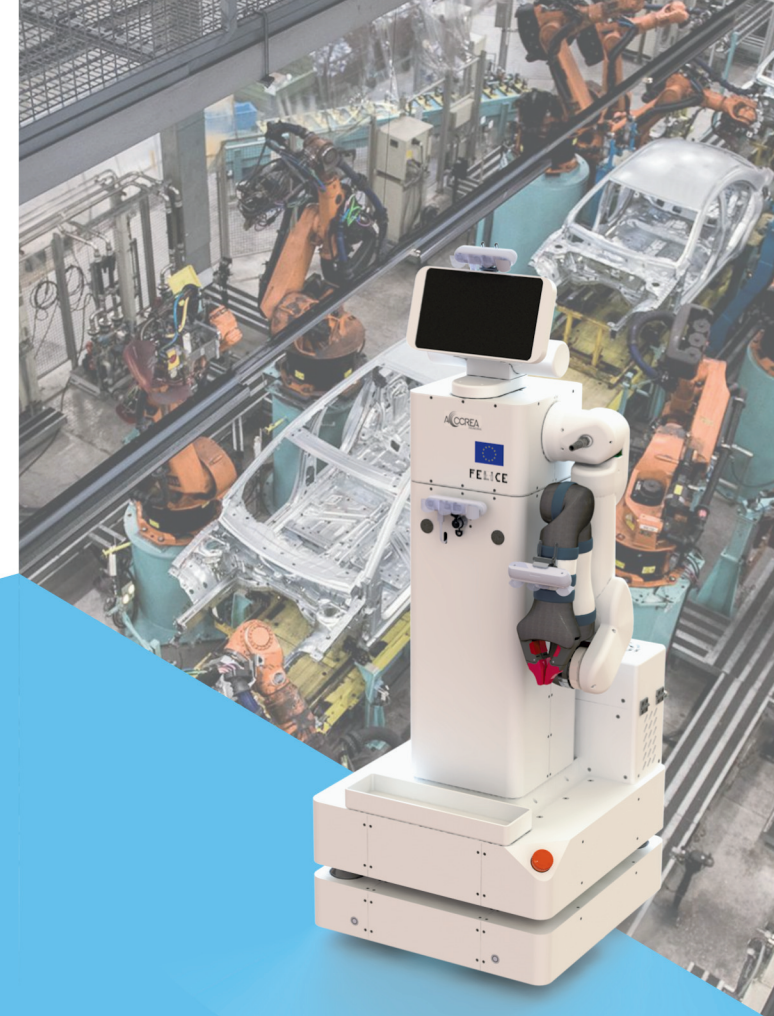


UNIVERSITÀ DEGLI STUDI
DI SALERNO



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FELICE

FLEXIBLE ASSEMBLY
MANUFACTURING WITH
HUMAN-ROBOT
COLLABORATION AND
DIGITAL TWIN MODELS

**NEXT GENERATION
ASSEMBLY PROCESSES**

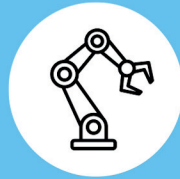


The FELICE Project

The main objective of FELICE is to combine **adaptive workspaces**, **collaborative robotics**, **human factors**, **AI**, **IoT**, **machine learning**, **process optimization** and **ergonomics** to deliver a **modular platform** in order to increase the **agility** and **productivity** of cyber-physical production systems, ensure the safety and improve the physical and mental well-being of workers.

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Main developments



Advancing human-robot collaboration, enabling robots to operate safely and ergonomically alongside humans.



Implementing perception & cognition capabilities for improved context awareness.



Realizing a manufacturing digital twin, tightly coupled with production assets and the assembly process.

Goals & benefits

5% productivity increase

20% increase in adaptability, e.g. product customisation capability

10% quality increases in human and automation performance

50% reduction of critical failures

Wide adoption of the new developments in advanced automotive manufacturing systems

