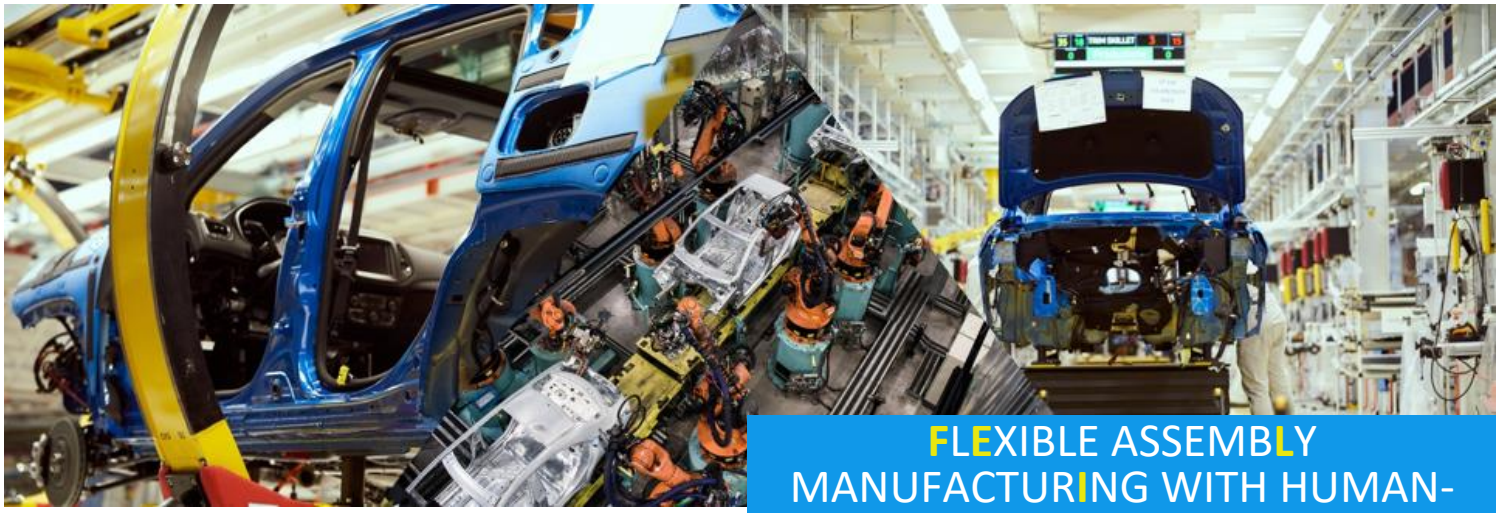
Consortium

Coordinator:
Institute of Communications and Computer Systems of National Technical University Athens

Centro Ricerche FIAT

University of Salerno

Contact us

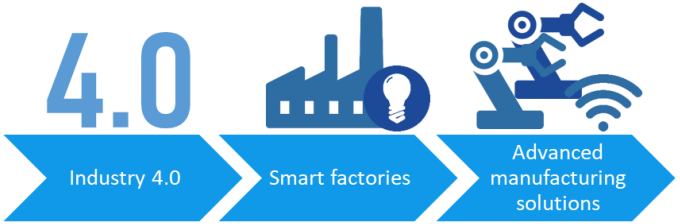


SCAN ME

For more information

FELICE

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



Project Coordinator:

Dr. Maria Pateraki: info@felice-project.eu
ICCS-NTUA - Institute of Communications and Computer Systems of National Technical University Athens

www.felice-project.eu

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FELICE

The Project

The main objective of this project 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.

Main Developments

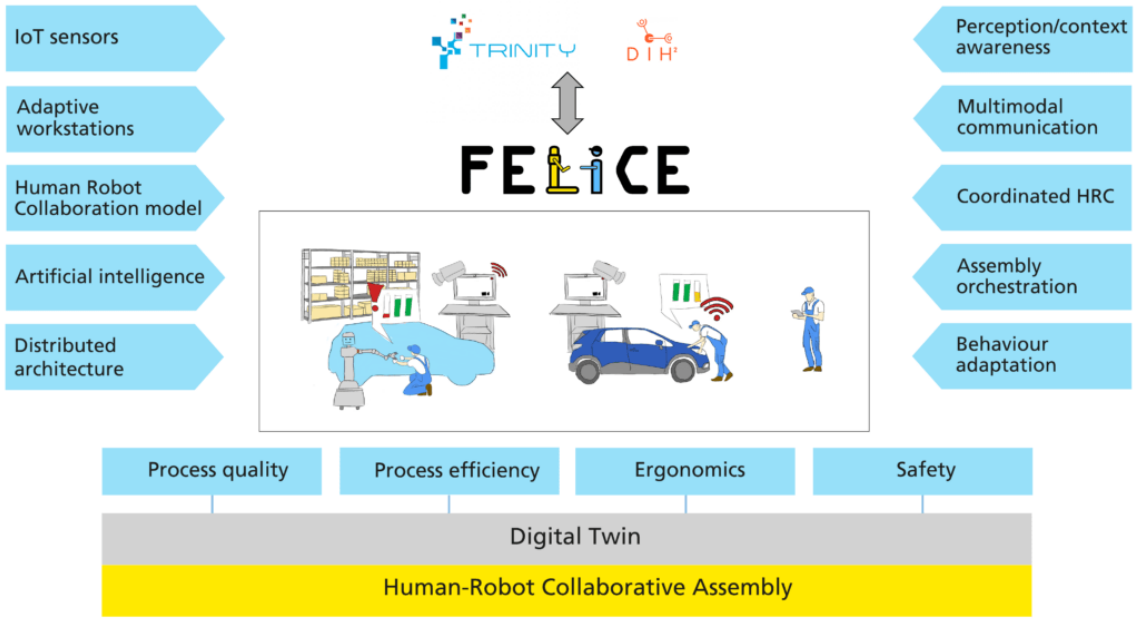
Advancing human-robot collaboration, enabling robots to operate safely and ergonomically alongside humans.

Implementing perception and 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 increase** in human and automation performance
- **50% reduction** of critical failures
- **Wide adoption** of the new developments in advanced automotive manufacturing systems



Solutions for sectors:

Robotics

Automotive