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For more information

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The project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 101017151
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