



ONE4ALL PROJECT

Agile and modular cyber-physical technologies supported by data-driven digital tools to reinforce manufacturing resilience.



Funded by
the European Union

KEY FACTS

PARTNERS **11**

COUNTRIES **7**

MONTHS **48**

BUDGET **6 MIO €**



The vision

Project's steps to reinforce the resilience and flexibility of the manufacturing lines, through modular and reconfigurable technologies centred on humans and sustainability.

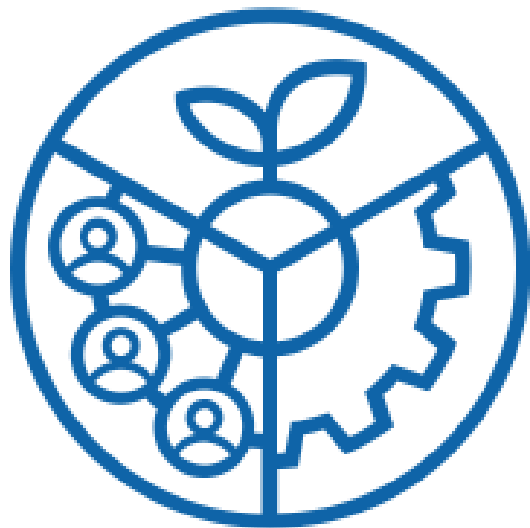
1 Development of **reconfigurable cyber-physical modules** of production, integrated with **breakthrough AI-based digital tools**

2 Ease the integration and understanding among the end-users, **promoting open-source protocols and humans' safety and upskilling**

3 Development of innovative **sustainability assessment tool**, integrated with technologies

INNOVATION PILLARS

**Human and environmental
centred approach**



Data-driven Digital Twins



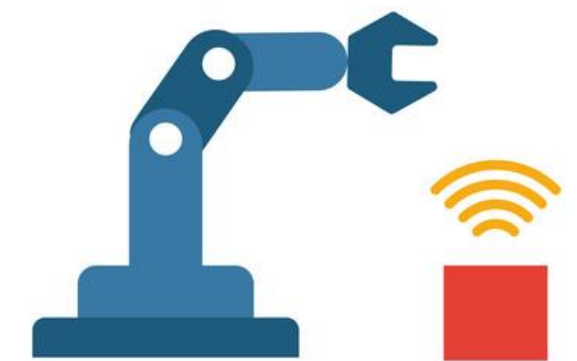
**Secure and open-sourced
intelligent orchestration
platform**



**Distributed Decision
Support System**



**Reconfigurable cyber-
physical production module
platform**





INNOVATION PILLARS

Data-driven Digital Twins

For this I5.0 technology, an adaptation is needed to surpass challenges such as frequently changing demands and complex manufacturing systems.

Distributed Decision Support System

Useful tool to tackle the optimisation of a wide variety of problems and support a novel workforce speeding up their adaptation period.

Human and environmental centred approach

The technologies' development process will be integrated with workforce gaps and necessities. Moreover, the evolution of the technical, economic and environmental impact of project innovations will be evaluated.

Secure and open-sourced intelligent orchestration platform

To interconnect all ONE4ALL modules (digital and physical) and present the information gathered in real-time through user-friendly interfaces to improve the understanding among end-users

Reconfigurable cyber-physical production module

Development of plug-and-produce cobots, embedded with IIOT technologies.

AGRI-FOOD DEMO CASE

MadamaOliva

Madama Oliva is a **supplier of fresh tables olives** worldwide.

Their production supply chain consists of several stages, most of them performed manually, from the **olives reception** to their **packaging** and **palletization** for their further delivery to the consumers.

Innovative technologies implemented in:

- Raw materials sorting phase
- Distribution to the packaging machine



PHARMACEUTICAL DEMO CASE



Orifarm supply plant covers the material flow processing of medicine repacking, delivering between 600.000 and 1.000.000 of repacked finished products boxes each month.

- Receive the goods and storage in premises
- Receive order and collect the goods specified
- Package of the specific parcel with the finished goods and print the accompanying documentation