

# SMART HUMAN ORIENTED PLATFORM FOR CONNECTED FACTORIES

## SHOP4CF PROJECT

SHOP4CF aims to find the right balance between cost-effective automation, repetitive tasks and the involvement of human workers in areas such as adaptability, creativity and agility where they create the biggest added value. The projects also aims to pursue the highly-connected factory model to reap the benefits of all the data generated within the factory.

### TECHNICAL AND ECONOMIC IMPACTS

- Development of an open architecture to encompass connected technologies
- Implementing several pilots acting as the testing facilities
- Creating a viable business model for the platform

### BUDGET

14 968K€

### KEYWORDS

Manufacturing, Connected Factories, Human Centered

### RESEARCH THEMES AND EXPERTISES

Adaptive and smart manufacturing systems  
Advanced robotics for industrial processes  
Smart industries

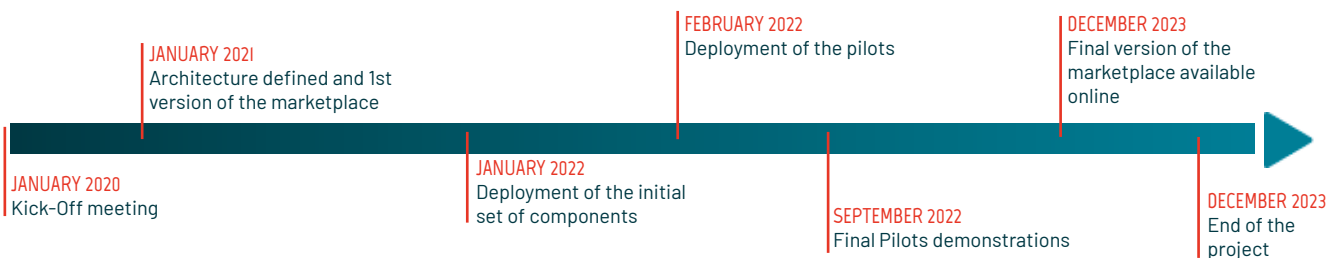
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## INDUSTRIAL CONTEXT

With almost 2.1 million enterprises constituting around 9% of all EU's enterprises the manufacturing sector plays crucial role in European economy. However, less than 15% of companies in the manufacturing sector (excluding computers and electronic) are highly digitalized, with only 20% of surveyed companies using IoT solutions and 16% using robotics.

Currently, most of the potentially useful information generated in those companies is lost - either due to not being analysed or not being registered at all. That wasted data could affect the operation of the production line at different time scales. Moreover, the data could be used in different stages of the product lifecycle; through design, maintenance and redesign of the production line where the data analysis is used to provide ergonomic and healthy working conditions, to production of individual units where the number of errors can be reduced by monitoring of production.

## INNOVATIVE FEATURES

- A platform developed on an open architecture encompassing technologies based on RAMI 4.0 and FIWARE technologies which can support humans in production activities.
- 30 components developed within SHOP4CF project by top RTOs from all over Europe.
- 4 large scale pilots lead by industrial leaders in Europe and 30 new Pilots (selected through open calls).
- A marketplace as one-stop-shop for SMEs (developers and end users) to access essential services for digital transformation including business modelling, technical support, access to skills and finance.

## INDUSTRIAL APPLICATIONS

The marketplace can help SMEs & Mid-Caps achieve digital excellence and global competitiveness through adopting advanced robotics solutions in human-centric digitalization.



This project has received funding from European Union's Horizon 2020 research and innovation programme under grant agreement N° 873087.

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