



# MADE IN EUROPE 2026

## ONLINE PITCHING

Presenter:

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# Teaching Factory Competence Center (TF-CC)



## Teaching Factory CC Mission

Based on **Teaching Factory (TF) concept**, our mission is to connect **academia and industry** aiming to exploit mature research results to **deal with the industrial challenges**.

- 🎯 Enable the **knowledge sharing** among the academia and industry.
- 🎯 Exploit **Research Results** towards Industrial Applicability in **pilots**.
- 🎯 Integrate innovative **Industry 4.0 technologies** in manufacturing.
- 🎯 Create added value for the **services and products** of manufacturing companies.

Teaching Factory Competence Center is the place where *innovation, engineering, and training* converge.

## Our Services



### TF-CC Participation in European Associations



# Teaching Factory Competence Center (TF-CC)

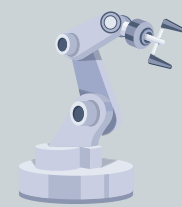


## Our Facilities

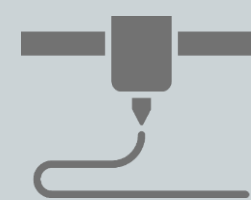


## Our know-how Technological Areas

Digital production & Industrial automation



Advanced Manufacturing Processes



Mixed Reality & Sensing



Industrial IoT Platforms & Communications



Industrial Digital Twins

Layout planning optimization

Intuitive robot programming

AR & VR for operator support & training

Monitoring of manufacturing processes

Industrial IoT platform, analytics & visualization

Synthetic data for training machine learning models

Testing and development of industrial dataspace (IDS/Gaia-X)

Dynamic robot task planning & resources orchestration

Existing Testbeds

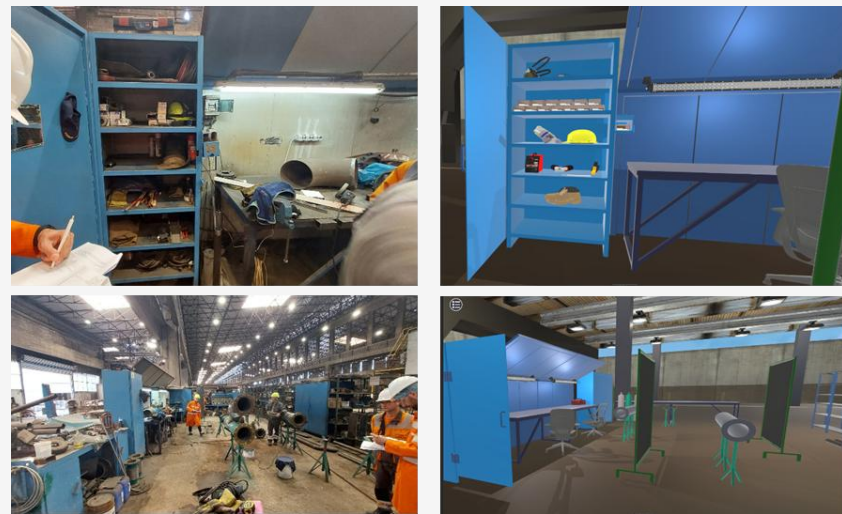


# Enabling Human Centricity utilizing AI in manufacturing

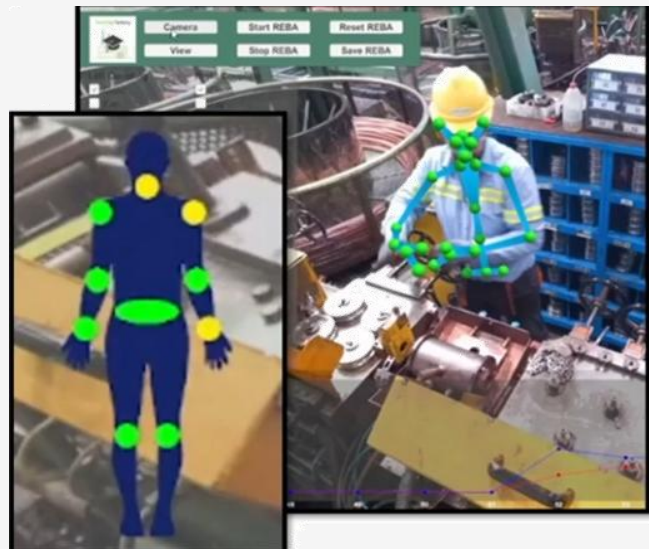
## ▶ Integrating Industry 4.0 technologies and AI through Technical Services



*Operator Awareness Systems using safety radars, laser scanners and AI cameras for pedestrian detection*



*Tailor made Safety Scenarios in Virtual Reality simulating real industry hazards in workplace digital replica*



*Ergonomic analysis on production station through camera setup and ergonomic evaluation algorithms*

## ▶ Familiarizing engineers and operators with Industry 4.0 Technologies and AI through Training Services



*Hands-on experience on industrial setups*



# TF-CC Contribution to potential proposals



- ✓ Development and maturation of **technological modules across the whole TRL scale** considering market perspectives.
- ✓ Design and deployment of **testbeds for projects' piloting and PoC.**
- ✓ Design and delivery of training activities for **workforce upskilling, reskilling or preparation of end users' personnel for project pilot** implementation.
- ✓ Support the **definition of specifications and requirements** ensuring the targeted TRL.
- ✓ Support on **Go to Market strategies.**
- ✓ Enable the **knowledge sharing** among the academia and industry utilizing online TF-CC course platform.

## Technical Tasks



Involves market-driven module development and robustness improvement

## Training Activities

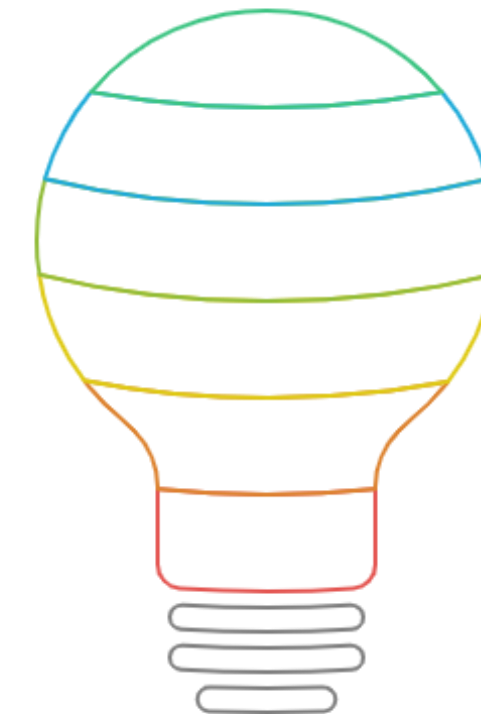


Aims at workforce upskilling and preparation for pilots

## Market Strategies



Supports planning for market entry and product launch



## Testbed Design

Focuses on creating environments for project piloting



## Specifications Support

Ensures alignment with targeted technology readiness levels



## Knowledge Sharing

Facilitates collaboration between academia and industry

# TF-CC topics of interest



- **HORIZON-CL4-2027-01-MAT-PROD-02:** Advanced manufacturing for key products (Made in Europe) (IA)
- **HORIZON-CL4-2027-01-MAT-PROD-03:** Factory processes and automation for de- and re-manufacturing (Made in Europe) (RIA)
- **HORIZON-CL4-2027-02-DIGITAL-EMERGING-52-two-stage:** New approaches for Human/AI collaboration for the workforce of the future (Made in Europe and ADRA) (RIA)
- **HORIZON-CL4-2027-01-MAT-PROD-47:** Pilot access schemes to Technology Infrastructures for startups, scaleups and innovative SMEs

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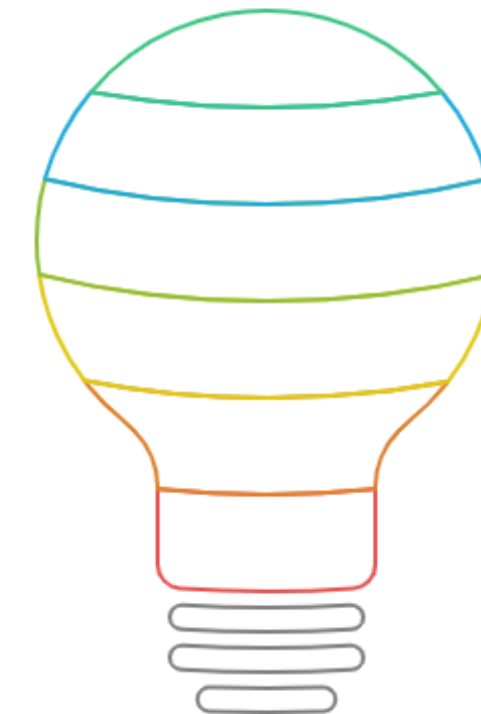


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# THANK YOU

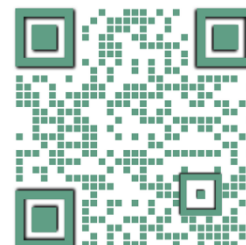


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*Teaching Factory Competence Center  
Upskilling and Training,  
Development and Implementation  
of Advanced Technologies  
for the Manufacturing Industry*

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