

# MANAGING THE INDUSTRY 5.0 TRANSFORMATION TRAINING SCENARIO

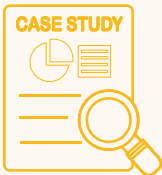
## ACTIVITY SUMMARY

The activity is conducted as an immersive multi-module workshop in which participants act as the management team of a manufacturing company facing the transition towards the Factory of the Future. Through a realistic industrial case study, participants progressively address technical, organizational, environmental, and human challenges by making strategic decisions related to maintenance, data-driven decision-making, sustainability, and change management.

## TEACHING APPROACH



**GAME BASED  
LEARNING**



**CASE  
BASED  
LEARNING**



**PROBLEM BASED  
LEARNING**



**INTERACTIVE  
WORKSHOP**

## LEARNING OBJECTIVES

### Knowledge

- Explain the key principles of Industry 4.0 and Industry 5.0.
- Understand the interactions between digital transformation, sustainability, and human-centered innovation.
- Recognize the managerial challenges associated with the Factory of the Future.

### Technical skills

- Analyse industrial challenges using realistic business cases.
- Select appropriate Industry 4.0 technologies and management strategies.
- Develop integrated transformation roadmaps considering technical, environmental, and organizational dimensions.

### Interpersonal skills

- Collaborate in multidisciplinary teams.
- Develop strategic decision-making skills.
- Communicate and defend transformation strategies.
- Foster change management and stakeholder engagement.

## RESPONSABILITY

- The Management Team can take responsibility for defining the digital transformation strategy of the company.
- The Maintenance Manager can take responsibility for improving maintenance performance through Industry 4.0 technologies.
- The Sustainability Manager can take responsibility for integrating environmental considerations into digital transformation.
- The Change Manager can take responsibility for engaging employees and facilitating organizational transformation.

## MATERIELS

**"UNLOCKING INDUSTRY 4.H" SERIOUS GAME**

**TECHNOLOGY, ACTION AND CATEGORY CARDS**

**SERIOUS BOARD GAME**

# MANAGING THE INDUSTRY 5.0 TRANSFORMATION

## TRAINING SCENARIO

### SPECIFICATIONS OF THE ACTIVITY

#### DEFINE THE TRANSFORMATION PRIORITIES

##### (Module 1 – Maintenance & Technologies)

Participants analyse the case study and identify the main operational challenges affecting maintenance performance. Using the Unlocking Industry 4.H serious game, teams identify relevant maintenance use cases and select the Industry 4.0 technologies that best support the company's digital transformation strategy.

**BUILD A DIGITAL TRANSFORMATION STRATEGY BY ADDRESSING REAL INDUSTRIAL CHALLENGES.**

#### DEVELOP A DATA-DRIVEN MAINTENANCE STRATEGY

##### (Module 2 – Data-driven Maintenance)

Participants explore the principles of reactive, preventive, and predictive maintenance through interactive learning activities. They analyse industrial data, interpret maintenance information, and define the most appropriate maintenance strategy for the company's context.

**TRANSFORM INDUSTRIAL DATA INTO INFORMED MAINTENANCE DECISIONS.**

#### INTEGRATE SUSTAINABILITY INTO DIGITAL TRANSFORMATION

##### (Module 3 – Sustainability)

Participants investigate the environmental impacts of digital technologies using the Digital Carbon Footprint Calculator. They analyse their results, identify environmental hotspots, and propose actions to support a more sustainable digital transformation.

**ENSURE THAT DIGITAL TRANSFORMATION CREATES VALUE WHILE REDUCING ITS ENVIRONMENTAL IMPACT.**

#### BUILD A SHARED TRANSFORMATION VISION

##### (Module 4 – Change Management)

Participants develop and present a transformation narrative designed to engage employees and stakeholders. Working in teams, they prepare and pitch a shared vision that explains the objectives, benefits, and challenges of the company's digital transformation while addressing employees' concerns.

**SUCCESSFUL TRANSFORMATION DEPENDS ON PEOPLE'S UNDERSTANDING, ENGAGEMENT, AND COMMITMENT.**

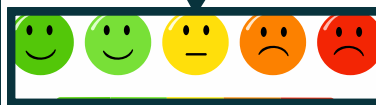
# MANAGING THE INDUSTRY 5.0 TRANSFORMATION

## TRAINING SCENARIO

### EVALUATION

#### Knowledge assessment

- Assess trainees' understanding of Industry 4.0 and Industry 5.0 concepts.
- Evaluate their ability to develop integrated digital transformation strategies.
- Measure their capacity to combine technological, environmental, and human considerations in managerial decision-making.
- Assess their ability to justify strategic decisions throughout the workshop.



#### Perception assessment

- Gather participants' feedback on the workshop structure and learning experience.
- Evaluate the perceived usefulness of the case study, serious game, and interactive activities.
- Assess participants' engagement, collaboration, and confidence in leading industrial transformation.
- Collect suggestions for improving future workshop sessions.