



POLITECNICO  
DI TORINO



LMS

Laboratory for  
Manufacturing Systems  
& Automation

**DIG**  
WORK

# DIG\_WORK

New skills and work organisation on the shopfloor for the Digital Age

EUROPEAN  
MANUFACTURING  
INNOVATION



EIT Manufacturing is supported by the EIT,  
a body of the European Union

# Our answer to a rising challenge

- **The challenge: Digital Transformation**
  - Profoundly **affects the firm's business model** (i.e., the way the firm promises to create and capture economic value)
  - Has a significant **impact on the operating model**: processes, skills and work practices on the shop floor
- **Our goal:** Raise awareness about the Digital Transformation of work through a 8-hour modular online course consisting of small and self contained video-lessons (“nuggets”)

# Course structure – Learning Units

- First section of the course: a **strategic view** on how digital transformation affects firms’ capabilities, competitive dynamics and value chains (“Who wins? Who loses?”)
- **Second section** of the course: a “**deep-dive**” view of **technologies** and their impacts on skills and work practices
- Assessment of knowledge acquired through a test bank

Learning Units				
<b>General view</b> <i>(Firm and Industry-level)</i>	Economic and strategic implications of digital transformation			
	Impact on processes, job design, work practices, and skills			
<b>Effects of technologies</b> <i>“Deep-dives”</i>	Augmented and Virtual Reality	IoT and Digital Twins Cyber security	AI and decision-making	Collaborative robots

# Which benefits for the learner?

## Targets

- Undergraduate, graduate students
- Practitioners: HR specialists, Production and innovation managers in manufacturing companies (both SMEs and Large)

## Expected benefits for the learner

- Sense and seize opportunities related to digital transformation and its enabling technologies
  - Building blocks
  - Application domains
  - Expected impact on skills and work practices
  - What can go wrong
- Invest in the skills and the work practices for the future



# EIT Manufacturing involvement and support

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## EIT role was fundamental in several aspects

- Project co-funding
- Business model fine tuning
- Market needs comprehension
- Dissemination event participation (e.g. DIG\_WORK was presented during “Techs and Skills Innovation Roadshow” event in November 2020)
- EIT will also support DIG\_WORK for further dissemination during 2021

## As of early December 2020

- **61 nuggets developed** with 18 different lecturers and 5 firms involved for the development of “use-case” nuggets
- **60 nuggets recorded**
- **26 nuggets post-edited** and the remaining are in the post-editing process

## Next steps

- **Testing:** during the first two weeks of December **more than 50 students** and practitioners will attend to some of the nuggets and will give their feedback about the content
- Wrapping up the project with proper content and metadata **categorization** and platform upload
- Further **dissemination** during 2021, especially for firms and Master courses