MNESTRIS

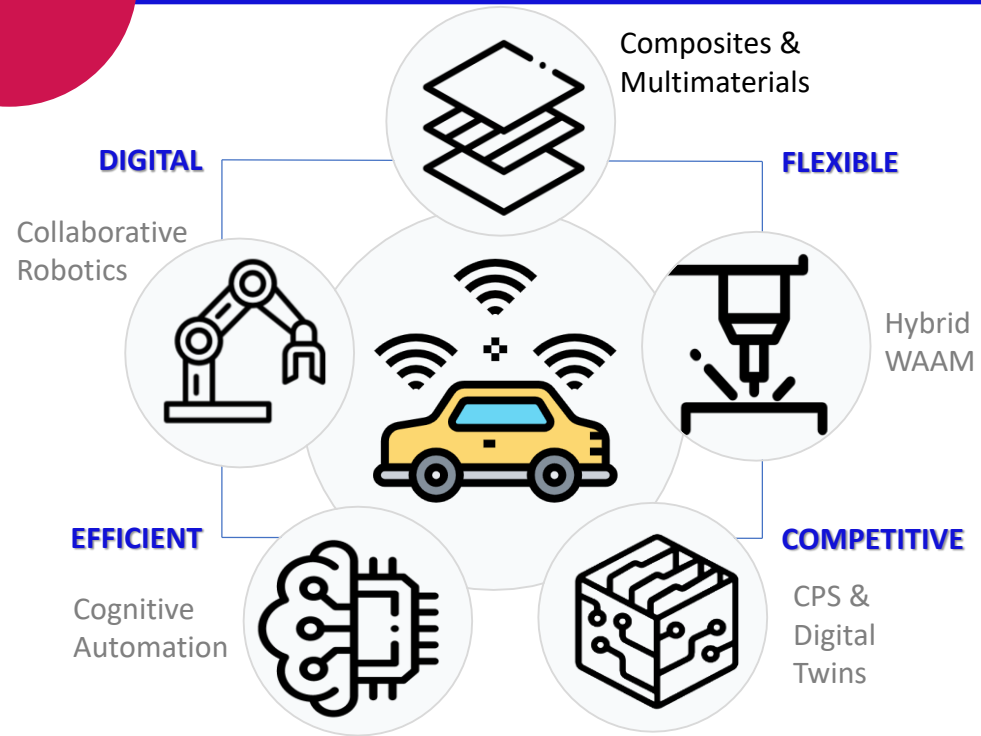
NETWORK FOR EMPOWERING PEOPLE IN ADDED-VALUE MANUFACTURING SYSTEMS AND TECHNOLOGIES – REGIONAL INNOVATION SCHEME

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

M-NEST-RIS: Challenges

FACTORY

Manufacturing



Societal

CLASS

To adapt the trainings to better prepare and empower the workforce for this manufacturing and digital transformation, particularly in RIS.

RIS

SECTOR

Identify qualification needs

Foster collaborative training

ACADEMIA

INDUSTRY

MNESTRIS

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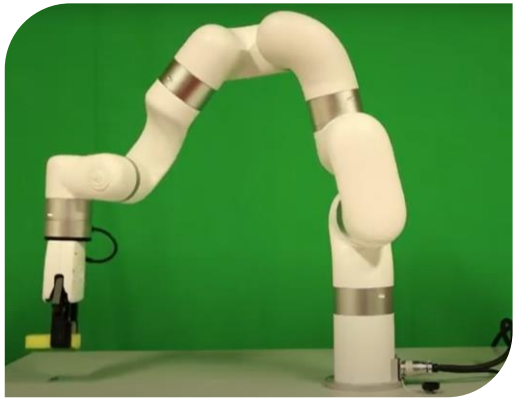
M-NEST-RIS: Proposed Solution

Complementary Technological Hotspots

Portugal

Czech Republic

Greece



Estonia

Process

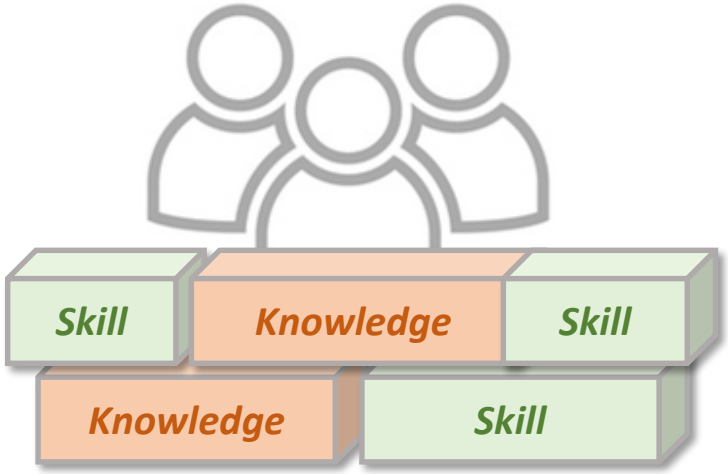
- TF — Composites Machining — LF
- Multimaterials Processing
- Hybrid Manufacturing — LF+TF

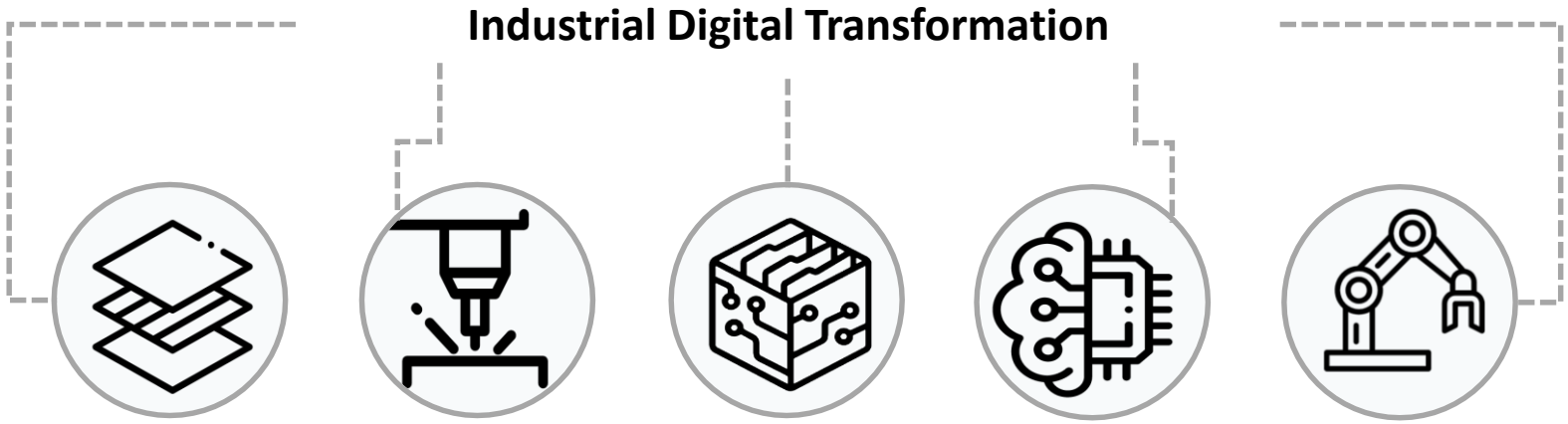
ICT

- CPS & Digital Twins — LF+TF
- Cognitive Automation — LF+TF
- Collaborative Robotics — LF

DISTRIBUTED TEACHING & LEARNING FACTORIES

M-NEST-RIS: Expected Benefits





2	3	6	6	6
Learning Domains	**Learning Schemes**	**Learning Evaluation Tiers**	**Learning Hubs**	**Learning Modules**
• Process-driven • ICT-Driven	• Teaching Factory • Learning Factory • Learning Event	• Attendance • Activity • Learner Perceptions • Knowledge • Decision Making • Task	• LAY2FORM Testbed • 5-axis Milling Testbed • WELDPRINT Testbed • Welding Robotic Cell Testbed • DINASORE Testbed • xArm7 Testbed	• Multimaterial Drilling • FRP Edge Trimminhg • Hybrid WAAM • Cognitive Automation • CPS & Digital Twins • Collaborative Robotics

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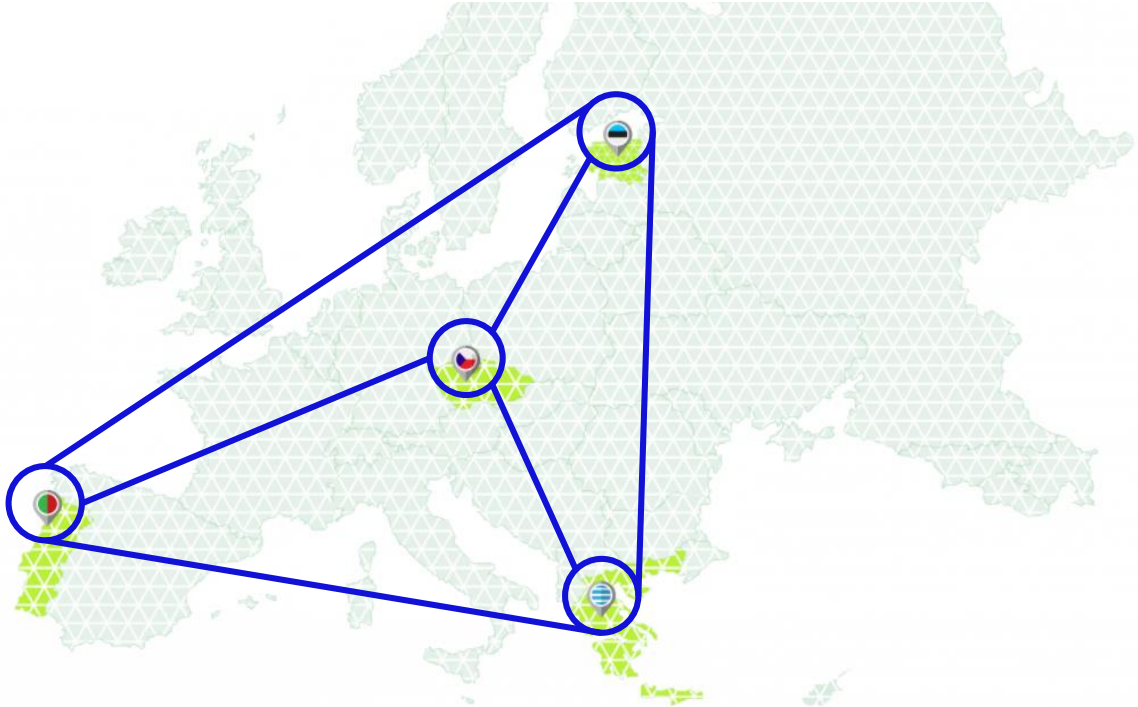
M-NEST-RIS: The EIT role

Portugal
INEGI, INESC TEC and FEUP

Greece
Laboratory for Manufacturing Systems and Automation, University of Patras

Czech Republic
Czech Technical University in Prague

Estonia
University of Tartu



*The **EIT funding** has been crucial for establishing 4 complementary factory units in RIS countries, which are now activated and can be used to implement new distributed TLF projects.*

*Plus, the **EIT support** enabled the development of some original didactic content that can be further exploited in other EIT educational initiatives.*

M-NEST-RIS: Results so far and Next Steps

Results so far

6 companies

60 trainees

Demo-sessions

Teaching Factory

5 Real Problem-Solving Projects Implemented

Learning Factory

5 Hands-on Experience Projects Delivery

Learning Webinars

5 Industry-oriented Educational Products

Next Steps

Validation

Launch

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