# M-NEST-RIS : 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

- Company-driven problem-solving
- Hands-on experience in testbeds
- Thematic learning forums

MANUFACTURING & SOCIETAL CHALLENGE

The introduction of new **added-value manufacturing** (AVM) technologies in the **automotive industry** are contributing to accelerate the development and modernization of this sector, making it more efficient and flexible. However, their integration also brings with it the **challenge to adapt the training of practitioners**, in order to better prepare them for this change. Following this trend and targeting the **empowerment of people to work on AVM in RIS countries** with moderate or modest innovation capacity, a **network that focuses on addressing local qualification needs** and fostering **training collaboration between companies, higher education and research institutions** were brought together under M-NEST-RIS.
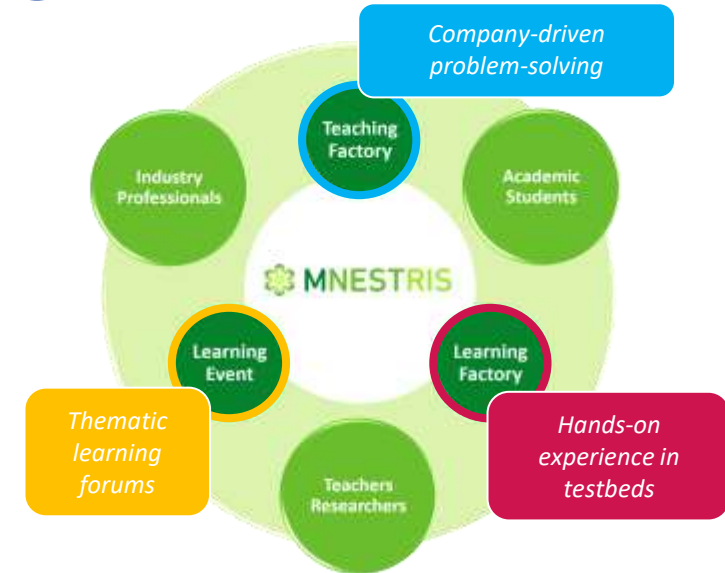
SOLUTION

M-NEST-RIS proposes to gather **complementary AVM technological hotspots** and educational assets in 4 RIS countries, namely **Czech Republic, Estonia, Greece and Portugal**, and to use it to implement distributed **Teaching & Learning Factories (TLF)** projects or other symbiotic university-industry learning mechanisms, addressing **ICT and process-driven learning needs of RIS automotive industries**.

"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 TLF projects. Additionally, the EIT support enabled the development of some original didactic content that can be further exploited in other EIT educational initiatives."

EXPECTED BENEFITS

Nurture several people with **knowledge-based competences** and also **skill-related qualifications** in **automotive-relevant AVM technologies**: *Multimaterial Processing; Composites Machining; Hybrid Wire-Arc Manufacturing; Cognitive Control & Automation; Cyber-Physical Systems & Digital Twins; Collaborative Robotics.*

RESULTS SO FAR

- 4 TLF Factory Units established and activated in RIS Countries (CZ, EE, GR, PT).
- 10 TLF projects implemented: 5 Teaching Factories and 5 Learning Factories.
- 60 trainees participating in TLF pilot demos-sessions.
- 6 RIS companies involved in TF projects.

NEXT STEPS

- Validation of the demo sessions.
- Launch of 5 industry-oriented learning webinars as educational products.

m-nest-ris.eu