

Learning through manufacturing challenges



The main goal of ManuLearn project is to enhance the innovation capacity of the participating EIT RIS countries by improving their educational framework and by boosting their digital capabilities in order to face the future manufacturing challenges.

This will be achieved through a collaborative network, facilitating the exchange of industrial challenges and providing novel solutions, bringing together academia and industry. Each

challenge along with the knowledge generated will be shared with the complete network, creating value across all participating EIT RIS countries.

ManuLearn project partners:

- Laboratory for Manufacturing Systems and Automation, University of Patras, **Greece**
- Tecnalia, **Spain**
- Czech Technical University in Prague, **Czech Republic**
- IMH Advanced Centre in Manufacturing, **Spain**
- LINPRA, **Lithuania**
- Intechcentras, **Lithuania**

Find out more about each partner below.

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The Laboratory for Manufacturing Systems & Automation (LMS) of the University of Patras is oriented on research and development in cutting edge scientific and technological fields: production systems planning and control, software development for industrial networking, innovative manufacturing processes, virtual reality engineering applications, quality control and metrology. Particular emphasis is given to the co-operation with the European industry and a number of hi-tech companies. LMS is the leading partner in ManuLearn Activities, focused on deriving the methodology and setting-up the #Teachingfactory network, based on the proven track-record in manufacturing-oriented education, Teaching and Learning Factories.

Fundación Tecnalia is the leading research and technology organization in Spain and one of the largest in Europe, which has the goal to transform technology into GDP, meaning wealth to improve people's quality of life through generation of business opportunities for industry. TECNALIA is the core partner of the KIC EIT Manufacturing and in the project Manulearn is in charge of designing the education Manulearn program to enhance innovation capacity.



The Faculty of Mechanical Engineering of the Czech Technical University in Prague experienced with mechanical engineering all phases of its development starting from the onset of the industrial revolution up to the present time and often paid here an active role. The 17 Faculty departments cover the entire sphere of mechanical engineering from mathematics and physics over materials and technologies up to individual types of machines and processes and enterprise economics. Their 150 years lasting history is an extensive one and represents not only a great commitment but also a hopeful promise of further development of the faculty for industry in the Czech Lands based on Czech mechanical engineers.

The IMH is an Advanced Center in Manufacturing that offers specialized training in Advanced Manufacturing (AF) and Technological / Organisational Innovation services for companies.

The IMH, as an integral part of AFM CLUSTER, is responsible for training in the machine tool sector. AFM CLUSTER is the organization that represents the interests of Advanced Manufacturing in Spain. Composed of four industrial associations, it groups 500 companies, employing 16,500 people with a turnover of more than 3 billion euros. From its headquarters in Donostia-San Sebastian, and its establishment in Tianjin (China), AFM CLUSTER works to



promote internationalization, industrial development, strategic positioning and training of people in its member companies.



InTechcentras is the SMART Manufacturing Competence Centre focussing on Lithuania's manufacturing industry. InTechcentras has a strong training programme with regards to digital transformation technologies, tools and services, having trained more than 3000 specialists and conducted over 600 accomplished seminars. InTechcentras is involved and support the activities related to the specifications of the ManuLearn approach, the design of the framework and the tools required for setting up a Teaching factory & Learning factory, and finally the implementation and demonstration of the program. Also, InTechcentras will be in charge of the pilot activity in Lithuania.

LINPRA, the engineering industries association of Lithuania, is an independent self-governing business association with more than 100 member organizations – business companies and educational institutions. Both nationally and internationally, LINPRA represents the interests of the Lithuanian metal, machinery and equipment, electro-mechanics and electronics, plastics and rubber, laser and other technology industries. LINPRA's aim is to promote sustainable growth and international competitiveness of industry's companies. Fueling and accelerating Industry 4.0, LINPRA helps businesses reshape the way they work, digitize their processes, innovate and create, to keep up with other EU Member States.





Find out more about EIT Manufacturing

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