SME 4.0
Project ID: 734713
Funded under: H2020-EU.1.3.3. - Stimulating innovation by means of cross-fertilisation of knowledge

Industry 4.0 for SMEs - Smart Manufacturing and Logistics for SMEs in an X-to-order and Mass Customization Environment

From 2017-01-01 to 2020-12-31, ongoing project

Project details

| Total cost: | EUR 954 000 |
| Coordinated in: | Italy |
| EU contribution: | EUR 783 000 |

Objective

Industry 4.0 refers to the fourth industrial revolution and technological evolution from embedded systems to cyber-physical systems (CPS) in production. The main objectives of Industry 4.0 can be summarized as the introduction of intelligent systems in production and logistics, the development of highly adaptable and modular manufacturing and logistics systems, the integration of sustainable and advanced manufacturing technologies as well as the promotion of automation technology and human-machine interaction. In the context of Industry 4.0 new ICT and web technologies act as booster or enabler of smart, autonomous and self-learning factories facing the challenges of even more individualized and customized product portfolio. A great challenge for the future lies in the transfer of Industry 4.0 expertise and technologies in small and medium sized enterprises (SME). SMEs represent the backbone of the economy and have an enormous importance in the development programs of the European Union for strengthening the competitiveness of European enterprises. Although the high potential of Industry 4.0 in SMEs, the main limit lies in a lack of concrete models for its implementation and application in small and medium enterprises. Thus, this research project titled “Industry 4.0 for SMEs - Smart Manufacturing and Logistics for SMEs in an X-to-order and Mass Customization Environment” aims to close and overcome this gap through the creation of an international and interdisciplinary research network. Identifying the needs and enablers for a smart and intelligent SME-Factory, creating adapted concepts and design solutions for production and logistics systems in SMEs and developing suitable organisation and business models will be the three main objectives of this research network. The applicability of the results is ensured through a close collaboration with a European small and medium sized enterprise (non-academic partner) from mass customization industry.

Related information
**Coordinator**

LIBERA UNIVERSITA DI BOLZANO  
PIAZZA UNIVERSITA 1  
39100 BOLZANO  
Italy  

**EU contribution:** EUR 472 500

**Activity type:** Higher or Secondary Education Establishments

**Contact the organisation**

---

**Participants**

TECHNICKA UNIVERZITA V KOSICIACH  
LETNA 9  
042 00 KOSICE  
Slovakia  

**EU contribution:** EUR 180 000

**Activity type:** Higher or Secondary Education Establishments

**Contact the organisation**

MONTANUNIVERSITAT LEOBEN  
FRANZ JOSEF STRASSE 18  
8700 LEOBEN  
Austria  

**EU contribution:** EUR 130 500

**Activity type:** Higher or Secondary Education Establishments

**Contact the organisation**

ELCOM, SPOLOCNOST S RUCENIM OBMEDZENYM, PRESOV  
JESENNA 2695/26  
080 01 PRESOV  
Slovakia  

**EU contribution:** EUR 0

**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)

**Contact the organisation**

---

**Partner organisations**

CHIANG MAI UNIVERSITY  
HUAY KAEW ROAD 238  
50200 CHIANG MAI  
Thailand  

**Activity type:** Higher or Secondary Education Establishments

**Contact the organisation**
MASSACHUSETTS INSTITUTE OF TECHNOLOGY MIT
CORPORATION

MASSACHUSETTS AVENUE 77
02139 CAMBRIDGE
United States

Activity type: Higher or Secondary Education Establishments
Contact the organisation

WORCESTER POLYTECHNIC INSTITUTE

100 INSTITUTE RD.
016092280 WORCESTER
United States

Activity type: Higher or Secondary Education Establishments
Contact the organisation

MADURAI AYIRA VAISYAR MANJAPUTHUR MAHAJANA SABAI

17 EAST MARRAT STREET
625301 MADURAI
India

Activity type: Research Organisations
Contact the organisation

Last updated on 2017-05-04
Retrieved on 2018-09-01

© European Union, 2018