

Project outputs

O1 - Examples of good practice

The goal of the output O1- Examples of good practice are:

1. Analyze and in the project use the best training methods for Industry 4, smart manufacturing
2. Analyze and in the project use the best examples presenting solutions from practice

O2 - Industry 4

Output Industry 4 provides knowledge of general developments to the 4th Industrial Revolution, explains the concept and philosophy of I4, defines cyber-physical systems, describes the principles of smart manufacturing, the main features of the technologies used and their context. It also lists the benefits and risks of new production and the requirements for new content of knowledge and skills for the new scope of work.

O3 - Technology Industry 4

Technology Industry 4 is the most important output of the project. New technologies, including: Internet of Things, Robotics, Big Data, Virtual / Augmented Reality, Simulation-Digital Twin, Cloud Systems, Artificial Intelligence, are deeply developed to form a significant part of the newly developed curriculum in schools and business education.

O4 - ICT methodology

It is under development to the installation, administration and structure phase of the Coursevo e-learning portal. The method of fulfilling and using the educational system of the e-learning platform will be determined. A methodology for working with the selected system is developed.

O5 - Glossary

Glossary contains terms and expressions that have been used in connection with the development of industry 4 and new technologies.



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Erasmus + program
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Strategic partnerships

T14 „INDUSTRY TECHNOLOGIES 4. FOR TEACHERS AND VOCATIONAL TRAINERS “

Project number:
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Time project duration:
01.10.2019 - 31.10.2021

Covid crisis intensifies implementation of Industry 4

Not Surprisingly, in the unique circumstances of the pandemic, agility and flexibility of operations proved to be the highest strategic priorities over increasing productivity and minimizing costs, which were mostly the main goal. Similarly, technologies that enable remote work and collaboration have come first on the list of priority uses for Industry 4.0.

For the industry, the coronavirus crisis is changing the rules of the digital game. The pandemic strengthened the value of Industry 4.0, but also revealed the limitations of today's implementations and set a higher bar for success.

The key conclusion is that the manufacturing sector will be more digital in the coming years. The trend is to increasingly connect devices and services to the Industrial Internet of Things (IIoT) as well as faster implementation of artificial intelligence technology, big data, virtual reality advanced robotics, real-time simulation

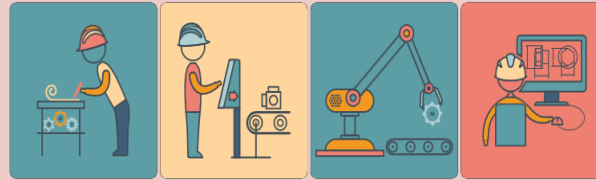
And it is these key technologies that are the focus of the TI 4 project.



The need for education for Industry 4

The biggest obstacle to the introduction of Industry 4 at the time of Covid 19 there is a shortage of skilled labor in production.

Manufacturing companies are massively preparing for Industry 4 by preparing strategic plans for the selection and retraining of qualified internal staff, focusing on acquiring the missing skills outside their own company and prioritizing the recruitment of young workers with at least partial knowledge and especially logical thinking and cooperation in a networked environment.



IMPACT

Expected the main impact of the project is directly related to the use of the project results during the project implementation and after its implementation. Teachers and students schools from target groups necessary knowledge related with TI4 technology. Participants in short-term joint training activities will increase their professional competencies, including the creation of didactic content and the use of transfer TI4 into education.



Project partners



Technical University in Košice, Slovakia Project coordinator

<http://www.sjf.tuke.sk/kr>



Cluster Automation Technology and Robotics AT + R, Slovakia

<http://www.clusteratr.sk/>



Technical University-TUC, Crete, GR

<Http://www.tuc.gr>



University of Polytechnic, Lublin, Poland

<http://www.pollub.pl/>



United school of J. Henischa , Bardejov, Slovakia

<http://www.ssjh.sk/>



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