INVITATION

ADMA Virtual Learning Network Event

““Smart Manufacturing breakthrough Demo””

A unique opportunity to be inspired by Slovenia's first - Smart Factory demo which demonstrates the innovative use and introduction of 4.0 Industry technologies and the smart factory concept

Webinar, 28th October 2020, Wednesday at 10:00 am (GMT+2 – Paris),

The ADMA initiative (www.adma.ec) is pleased to invite you to the Virtual Learning Network Event on "Demo center Smart Factory" hosted by the Laboratory for Handling, Assembly and Pneumatics at the Faculty of Mechanical Engineering Ljubljana, Slovenia, on the **28th of October 2020, from 10:00 to 12:00.**

This webinar organised will present inspiring breakthroughs related to digitization of production processes in the field of 'Smart Manufacturing'.

The Laboratory for Handling, Assembly and Pneumatics at the Faculty of Mechanical Engineering, guided by Prof. Dr. Niko Herakovič, developed its own architectural model of a future factory "LASFA" and successfully transferred it into a realistic industrial setting.

The "Smart Factory" demo centre has been built on the concept of distributed systems and includes all important key technologies that are vital for the operations of a smart factory. The backbone of the demo includes the global digital twin and global digital agent or, rather, artificial intelligence backed by machine vision. Every process and system has its own digital twin and one or more digital agents that control processes upon the support of artificial intelligence and solve problems automatically at local

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level, while all processes and activities are visualised and transparent. RFID technology provides the traceability of every process and provides communication between smart factory objects and subjects. In addition to robotic processes, the demo centre also includes a smart manual workplace, where it is possible to demonstrate various smart factory technologies, such as virtual and augmented reality, digitalisation and transparency of instructions for assembly operations, adaptability of assembly stations and buffers, workplace ergonomics, etc. The smart factory hence provides fully flexible, agile, and completely automatic planning and optimisation of a work plan and production process.

In particular, the event aims at building and sharing experience on the **Smart Factory concept** which has been designed to show the industrial sector how to develop smart factory concepts and use them to ease and accelerate digital transformation.

This event constitutes a unique opportunity for participants to be inspired by new methodologies and insights, and to share ideas and experiences ('peer learning') with experts having made major breakthroughs on cybernetic connectivity, digital twins and digital agents, supported by artificial intelligence and other key technologies of the Industry 4.0.

The **agenda** of the event can be found below:

- 10.00 to 10.30 - **Concept of smart factory**
- 10.30 to 11.00 - **Digital twin and digital agents**
- 11.00 to 11.45 - **Presentation of Smart Factory Demo**
- 11.45 to 12.00 - **Questions**

The participation in the ADMA Learning Network Event is **free of charge** for the participating companies.

The registration process for the event is now open! You can register **here.** You will then receive connection details.

For further information about the roll-out of an ADMA virtual learning network event, please have a look here! For further information about the project, please visit www.adma.ec or contact adma@ideaconsult.be.

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