

ICT products and solutions for the smart factory



Experience the most innovative products and the most important sector-specific ICT solutions for the smart factory. Thanks to **IT2Industry**, the integrated “fair within the fair”, you profit more strongly than ever from having participated in automatica.

IT2Industry@automatica showcases information technologies and system solutions for intelligent automation and robotics. It is where exhibitors present products, services and solutions on the following topics:

Embedded and cyber-physical systems

More than 90 percent of all processors work as hidden embedded systems, for example in the automotive sector, machine control systems, telephone systems and medical devices. Embedded systems and cyber-physical systems are an important foundation for Industry 4.0.

Cyber-physical systems (CPS) are the network of software components with mechanical and electronic parts that communicate via data infrastructures such as the Internet. That communication is a basic prerequisite for the smart factory of the future. A number of different application scenarios illustrate the potential that these systems have to offer.

IT solutions for the smart factory

Production is supposed to be individual and flexible in the future. That is why the industry needs IT-based processes. Hardware and software manufacturers have various solutions available for increasing efficiency in manufacturing. Main exhibition categories include:

- Sector-specific software
- Corporate software

Machine-to-machine communication (M2M)

In production and manufacturing, if a workpiece has to communicate with a machine or machines have to communicate with one another, M2M communication solutions are needed. Gather information about innovative solutions and services:

- Systems for machine-to-machine communication (M2M)
- Systems man-to-machine communication

Sector-specific software and systems

The future of cyber-physical systems and the Internet of Things is completely networked, self-organizing production systems. Sector-specific software and systems are central elements for making these visions a reality.

Infrastructure and digital networks

The factory of the future requires an extensive IT infrastructure and comprehensive digital networking. Companies from the telecommunications and mobility sectors will present the latest capabilities:

- Data transmission by radio and cell phone
- Optical data transmission
- Wireless data transmission
- Remote maintenance and diagnostics systems

Cloud computing and big data

The smart factory generates enormous quantities of data that must be processed and evaluated in real time. That is only possible using cloud computing and big-data solutions. Notable exhibitors present their sector-specific solutions for the following sectors:

- Cloud-based infrastructure services (IaaS)
- Cloud-based platform services (PaaS)
- Cloud-based software services (SaaS)
- Big-data applications
- System integration and consulting on cloud computing and big data

Industrial IT security

This explosive topic continues to increase in importance. Manufacturing and production do not pay enough attention to IT security. As a result, cyber attacks on industrial facilities stopped being a science fiction scenario quite a while ago. Now they are now a reality! IT2Industry will show how you can effectively protect your company against them.

ICT services and services for the industrial Internet of things

The right partners that can give you and your company competent advice as you transition to Industry 4.0 are available at IT2Industry@automatica.

[➤ Exhibitor directory from IT2Industry@automatica 2016](#)
