

## 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

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### **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.

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### **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

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### **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

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### **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.

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### **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](mailto:IT2Industry@automatica).

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

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