

Launched by the European Commission in 2013, with a budget of 77 million Euros, I4MS initiative aims to help the manufacturing sector, and high-tech SMEs in particular, to profit from the latest advances in ICT, advanced robotic solutions, innovative laser applications, intelligent sensor-based equipment and HPC cloud-based simulation services.

Through more than 150 innovation experiments, the initiative connects European innovators across the value chain so that they can mature and adopt ICT-based innovations across the production value chain, from design and engineering to laser-based manufacturing and industrial robotics. Experiments are implemented with the help of pan-European networks of competence centres that provide knowledge and support for cross-border partnership building.

The I4MS Initiative is an initiative within the 'Factories of the Future' Public Private Partnership made up of seven projects with the objective of assisting Europe's manufacturing SMEs and mid-caps, both on the supply and demand side. I4MS aims at the wider and faster adoption of ICT to modernise Europe's manufacturing capabilities towards an European industrial renaissance.

I4MS

Venue:
Umweltforum
Pufendorfstraße 11
10249 Berlin



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I4MS

**Fostering Digital Industrial
Innovation in Europe**

17th & 18th of June 2014

BERLIN





Agenda

17th of June

Joint Panel: Autonomik 4.0 and I4MS events

16:30 - 17:30 **Autonomy in Complex Production Systems: European Opportunities and Challenges**

Panel Topics:

- Integration of service robotics and automation technologies
- Legal, security, and safety aspects of autonomous components in manufacturing
- European competitiveness and the task of Horizon 2020: The need for collaboration of academia and industry; the impact of re-industrialization in the U.S. and others on European markets

Panelists:

- Rainer Bischoff, Vice President euRobotics AISBL/ Head of Technology Development KUKA Laboratories GmbH
- Maurizio Gattiglio, Chairman European Factories of the Future Research Association (EFFRA)
- Andreas Goerdeler, Federal Ministry of Economics and Energy
- Uwe Haass, Secretary General euRobotics AISBL
- Eric Hilgendorf, Univ. of Würzburg
- Khalil Rouhana, Director Components & Systems, European Commission
- Michael Waidner, Director Fraunhofer SIT

17:45 - 21:00 **Get-together of participants of the German Autonomik 4.0 and the European I4MS events**

18th of June

08:00 - 08:30 **Registration**

08:30 - 08:45 **Towards digital industrial innovation in Europe**

Khalil Rouhana, Director for Components & Systems, Directorate General for Communication Networks, European Commission

08:45 - 09:00 **Innovation actions in Horizon 2020: fostering collaboration with Member States and Regions**

Max Lemke, Head of Unit of Complex Systems and Advanced Computing, DG for Communication Networks, European Commission

09:00 - 09:20 **ICT Innovation for Manufacturing SMEs (I4MS) initiative**

Panelists:

- Silvia de la Maza, R&D Manager, Innovalia Association (ES)
- Ulrich Thombansen, Process Control and Sensor Technology Group, Fraunhofer ILT (DE)
- Gregor Veble, R&D, Head of Research, Pipistrel (SL)

09:20 - 09:40 **The Factories of the Future Private Public Partnership (PPP) and industrial innovation**

Maurizio Gattiglio, Chairman of EFFRA - Executive Vice President Operations, Prima Industrie SpA Group (IT)

09:40 - 10:00 **Innovation in industrial robotics**

Rainer Bischoff, Vice President euRobotics AISBL (BE) / Head of Technology Development KUKA Laboratories GmbH (DE)

10:00 - 10:20 **Cloud based HPC simulation services in advanced manufacturing**

Fouad el Khaldi, Industry Strategy & Innovation General Manager, ESI Group (FR)

10:20 - 10:40 **Europe as a key innovator for industrial laser applications**

Wolfgang Gries, CEO, DirectPhotonics Industries GmbH (DE)

10:40 - 11:00 **Coffee break**

11:00 - 13:00 **Modernising Europe manufacturing capabilities through advanced ICT**

Panelists:

- Andreas Goerdeler, Deputy Director General, Federal Ministry of Economics and Energy (DE)
- Ian Collier, Director of Operations of High Value Manufacturing Catapult (UK)
- Reijo Tuokko, Professor, Tampere University of Technology, Baltic Sea Region

18th of June

- Javier García Serrano, Head of the Industrial Leadership Department, Centre for the Development of Industrial Technology (ES)
- Max Lemke, Head of Unit of Complex Systems and Advanced Computing, DG for Communication Networks, European Commission

The panel will also be joined by the keynote speakers

13:00 - 14:00 **Lunch break**

14:00 - 15:10 **Innovation in cloud-HPC powered simulation**

Moderator: Francis Wray, Scapos (UK)

- Andrés Gómez, Cesga (ES), Fortissimo
- Matej Andrejasic, Pipistrel (SL), Fortissimo
- Miguel Subira, Podoactiva (ES), CloudSME
- Sylvain Reboux, Ascomp (FR), CloudSME
- Michel Pottiez, Numeca (BE), CloudFlow
- Jean Claude Morel, Missler (FR), CloudFlow

15:10 - 15:50 **Innovative robotics experiments in manufacturing**

Moderator: Bruno Siciliano, University of Naples (IT)

- Martin Hägele, Fraunhofer IPA (DE), EuRoC
- Rainer Bischoff, KUKA Laboratories GmbH (DE), EuRoC
- Christoph Huerzeler, Alstom Inspection Robotics (DE), EuRoC
- Reinhard Lafrenz, TU Munich (DE), ECHORD++

15:50 - 16:10 **Coffee break**

16:10 - 17:00 **Laser and Sensors- Experience from industry**

Moderator: Ulrich Thombansen, Fraunhofer ILT (DE)

- Jose Antonio Ramos de Campos, LASEA (BE), LASHARE
- Jordi Garcia, MONOCROM (ES), LASHARE
- Aitor Apraiz Arenaza, Mondragon Assembly S. Coop. (ES), APPOLO
- Max Groenendijk, Lightmotif B.V. (NL), APPOLO
- Hendric Matzat, Dr.Matzat & Co. GmbH (DE), INTEFIX

17:00 - 17:20 **New opportunities under I4MS-Phase 2 and beyond**

Francesca Flamigni, Project Officer, Complex Systems and Advanced Computing Unit, DG for Communication Networks, European Commission

17:20 - 17:30 **Closing remarks**

Chairpersons:

- Morning: Cathy Smith, Speak-Easy sprl
- Afternoon: Rolf Riemenschneider, European Commission