

Discover solutions and challenges  
on the way towards the  
integrated industry of tomorrow!



Workshop of the European Project CPSoS

# Cyber-physical Systems of Systems The Next Challenge

Tuesday, 26.04.2016, 10:00 - 14:00

Hannover Messe 2016, Hannover, Germany  
Convention Center (CC), Hall 17



## Background

The next generation of industrial systems and infrastructures will be

- **Smart,**
- **Globally networked,**
- **Highly integrated,**

responding to the challenges that the world faces today, such as demographic change and resource and energy efficiency.

These **cyber-physical systems of systems** will require **new engineering and management methodologies** that are not established today.

## Join Us To ...

- ... discuss **the way forward** for the engineering and management of **large-scale cyber-physical systems of systems** from the perspective of different sectors (**electric grids, logistics, industrial automation, manufacturing, ...**), and to
- ... learn about and discuss **research and innovation priorities for cyber-physical systems of systems** that are proposed by the ARTEMIS Association and by the European project **CPSoS** (<http://www.cpsos.eu/roadmap>),

in a relaxed atmosphere with fingerfood and refreshments.

## How To Participate

Participation is **free of charge** to Hannover Messe ticket holders.

**Visit us and join the debate!**

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## Agenda

- 10:00** Arrival and Coffee
- 10:15** Cyber-physical Systems of Systems – The Next Challenge  
 Sebastian Engell, TU Dortmund, Germany
- 10:30** Cyber-physical Systems of Systems in Electric Power Systems and Networks  
 Patrick Panciatici, RTE, France
- 10:50** Cyber-physical Systems of Systems in Industrial Automation  
 Alf Isaksson, ABB, Sweden
- 11:10** The Next Generation in Automated Material Handling Systems: Autonomous Shuttles  
 Joost van Eekelen, Vanderlande, Netherlands
- 11:30** Cyber-physical Systems of Systems Challenges in Manufacturing  
 Haydn Thompson, THINK Wireless Technologies, UK
- 11:45** Cyber-physical Systems of Systems in the ARTEMIS Strategic Research Agenda  
 Laila Gide, Thales, France
- 12:05** The Way Forward - Medium-term Research and Innovation Priorities in the Engineering of Cyber-physical Systems of Systems  
 Sebastian Engell, TU Dortmund, Germany
- 12:20** Discussion
- 12:45** Networking Session  
with fingerfood and beverages
- 14:00** End of Workshop

## CPSoS Publications

- Download our **roadmap** here:  
[www.cpsos.eu/roadmap](http://www.cpsos.eu/roadmap)
- Download our **state-of-the-art report** and other public documents here:  
[www.cpsos.eu/outcomes/deliverables](http://www.cpsos.eu/outcomes/deliverables)

## CPSoS Consortium

TU Dortmund, Germany

 technische universität dortmund

Haydn Consulting Ltd., UK

 HAYDN CONSULTING LTD

TU Eindhoven, Netherlands

 TU/e

Inno TSD, France

 inno

CPSoS is part of the  
**European Systems of Systems  
Research Cluster**



**AMADEOS** (*Architecture for Multi-criticality Agile Dependable Evolutionary Open System-of-Systems*), [www.amadeos-project.eu](http://www.amadeos-project.eu)



**CPSoS** (*Towards a European Roadmap on Research and Innovation in Engineering and Management of Cyber-physical Systems of Systems*), [www.cpsos.eu](http://www.cpsos.eu)



**DYMASOS** (*Dynamic Management of Physically Coupled Systems of Systems*), [www.dymasos.eu](http://www.dymasos.eu)



**Local4Global** (*SoS that act locally for optimizing globally*), [www.local4global-fp7.eu](http://www.local4global-fp7.eu)

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