

## Digital Single Market

Report / Study 16 December 2013

# Report from the Workshop on Cyber-Physical Systems: Uplifting Europe's Innovation Capacity

This report summarises a workshop organised by the European Commission on “Cyber-Physical Systems: Uplifting Europe's Innovation Capacity” (29-30 October 2013 held in Brussels) to identify industrial, scientific, technological and socio-economic challenges, European strengths, stakeholders and priorities for innovation in the area of Cyber-Physical Systems.



[1]

The workshop was organised over two days. The first day concentrated on industry visions for CPS, research and innovation challenges, success stories, platforms for CPS and clusters of CPS design

centres. This was achieved via means of a series of invited presentations from on-going projects and other key stakeholders in the field. The second day focused on three breakout workshops:

- Mixed Criticality Systems – platforms for the future
- Systems of Systems and Control – enablers and realization
- Cyber Physical Systems in manufacturing and production

A key driver for the meeting was the confluence between the embedded and Internet worlds to create a “smart everywhere society”. Information and Communication Technologies (ICT) are being increasingly integrated and embedded into our everyday environment. This leads to the creation of smart cyber-physical systems. New cyber-physical applications will have an impact throughout the value chain from component technologies to the developers and operators of cyber-physical systems. Additionally, cyber-physical systems will have a revolutionary effect on industry, mobility of European citizens and how we interact with cyberspace as citizens. This will have enormous economic and social implications for society.

This new wave of integration represents a great opportunity for innovators and industry in Europe. One of Europe's key strengths is the capacity to build safe, secure, reliable, small size, low power and real-time responsive embedded ICT systems. Europe is thus well placed to exploit this technology in strongholds like manufacturing, automotive, aerospace, health and energy.

Maximising the value from the move to a "smart everywhere society" will depend on Europe's capacity to accelerate the integration of electronic components, smart integrated systems and embedded software in all types of products and services. The wider embedding of ICT in products and artefacts will have a major impact on uplifting Europe's innovation capacity across the economy from traditional industrial and professional service sectors to emerging consumer sectors.

For further references please read the Report and visit the [Cyber-physical Systems part on Digital Agenda website](#) [2].

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[Conference website](#) [3]

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[1] [https://ec.europa.eu/digital-single-market/sites/digital-agenda/files/newsroom/cyber-physical\\_systems\\_final\\_report-page-small\\_5679.jpg](https://ec.europa.eu/digital-single-market/sites/digital-agenda/files/newsroom/cyber-physical_systems_final_report-page-small_5679.jpg)

[2] <http://ec.europa.eu/digital-agenda/en/cyber-physical-systems-1>

[3] <http://www.amiando.com/cps-conference.html;jsessionid=1BD648898E9F4D0FDAF672DCCF647603.amiando?page=973125>