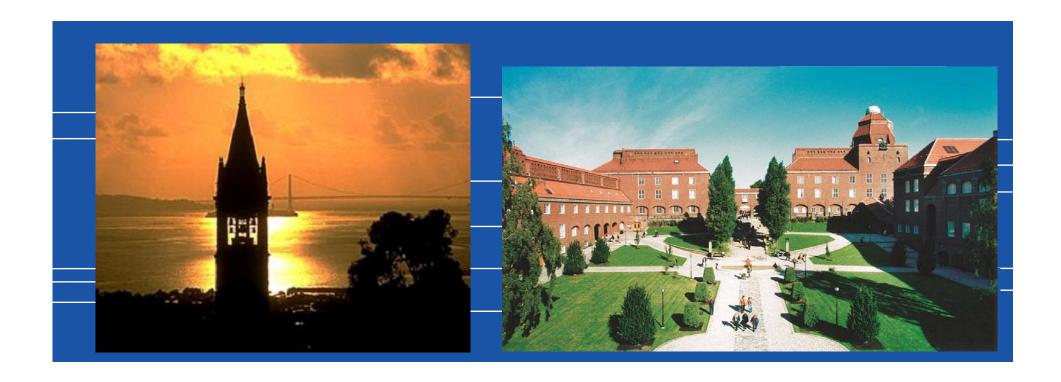
CPS-Ed 2014 Cyber-Physical Systems Education Workshop

- November 4th, 2014, UC Berkeley





Workshop background and driver

Increasing importance of education and training

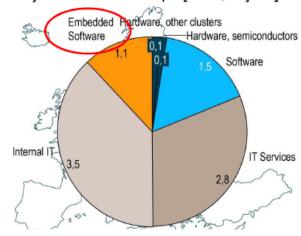
10th Workshop on Embedded and Cyber-Physical Systems at ESWeek 2014

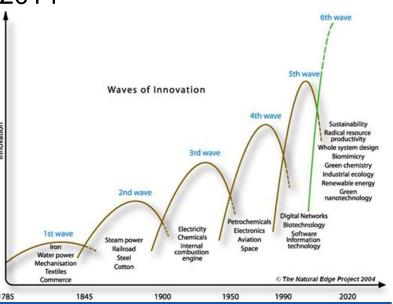
CPS-ED at CPSWeek 2013

EIT ICT Labs CPS summerschool and curriculum workshops



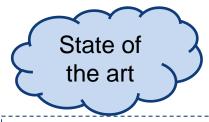
Direct job creation - Europe [2012, m jobs]







Approach of CPS curriculum in ICT Labs

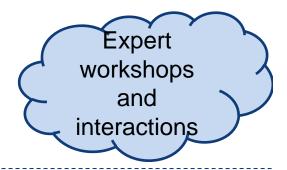


Trends and best practices Engineering education CPS education CPS agendas (CyPhERS) Didactic analysis

State of the art analysis

Synthesis of curriculum guidelines

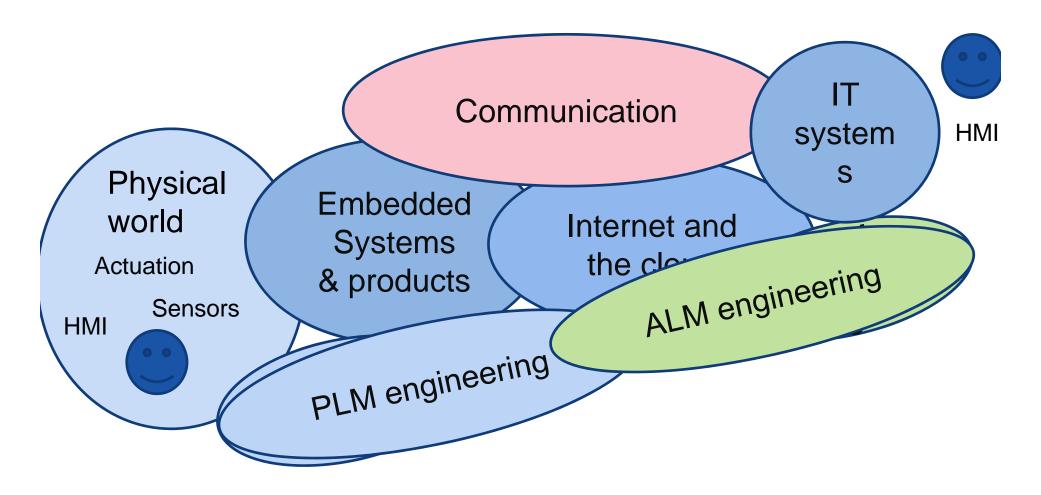
Recommendations for further work



- WESE at CPSWeek 20
- Industrial meetings
- National workshops
- Meetings with leading universities



Merging technological areas





Workshop questions

What skills and capabilities are required by the CPS engineers of tomorrow?

How should the corresponding programs and courses be formed?

Further collaboration and actions to promote CPS education?



CPS-Ed 2014 program

09:00-09-10: Introduction and welcome

09:10-10.25: Academic state of the art and industrial needs in CPS education and beyond

- Alberto Sangiovanni-Vincentelli
- Jyo Deshmukh, Totyota Research
- David Auslander, UCB / ME graduate school

Coffee

10:45-12.00

- Jeff Jensen, NI
- Raja Sengupta, UCB / CEE
- Sanjit Seshia, UCB /EECS

Lunch (12-13)

13:00-13.50: Academic state of the art and industrial needs in CPS education and beyond, continued

- Ruzena Bajcsy, UCB / EECS
- Alessandro Pinto, UTC Research

Coffee

14:10-15:00 CPSE education at KTH and in Europe – now and future

- Martin Edin Grimheden, KTH / Mechatronics
- Martin Törngren, KTH / Mechatronics

15:00-15:45: Discussion

15:45: Workshop ends - followed by Dreams seminar!

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