











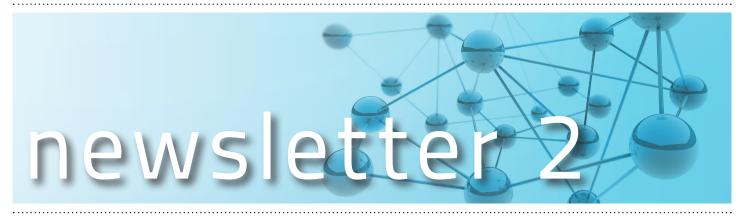






Trans-Atlantic Modelling and Simulation for Cyber-Physical Systems

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TAMS4CPS stakeholder workshop

The last TAMS4CPS stakeholder workshop took place in Brussels on 16th of November. It aimed to validate the TAMS4CPS findings identified so far and was designed as a highly interactive workshop to give room for lively discussions and the exchange of knowledge between participants.

The workshop started with a welcome, brief overview over the day and an outline of the project by the project partners Loughborough University and Steinbeis-Europa-Zentrum. It was followed by a keynote presentation on past and future trans-Atlantic collaboration by Haydn Thompson, THHINK Ltd. As Haydn is highly experienced in EU-US collaboration, he gave a comprehensive and well-grounded overview on rationales for cooperation, past and present activities as well as an outlook on possible future routes for collaboration.

Next, Michael Henshaw from Loughborough University briefly outlined the background and definitions of modelling and simulation (M&S) for CPS used in TAMS4CPS before giving an overview on the modelling and simulation for CPS research opportu-

nities as well as the so-called Dream Projects identified in TAMS4CPS. He pointed out that the issue of CPS test beds was a recurring issue which is of interest to all actors who were engaged in TAMS4CPS.

Before engaging in the interactive sessions during the afternoon, Sabine Hafner-Zimmermann from Steinbeis-Europa-Zentrum gave a concise overview of mechanisms for trans-Atlantic collaboration available and used to-date as well as good practices on EU-US collaboration identified in TAMS4CPS.

During the afternoon, the participants engaged in four break-out sessions to discuss and define future routes and possibilities for collaboration in the four areas:

- Open framework for model interoperality
- Evolutionary approach to adaptive / resilient CPS
- Big data analytics modelling via machine learning
- Inclusion of Human Factors in M&S

Finally, the preliminary recommendations identified in TAMS4CPS were presented and discussed with the participants. The participants broadly endorsed the recommendations without major objections to any of them. The outcomes from the workshop will now be included into the Final TAMS4CPS Strategic Research Agenda for Collaboration which will be finalised by

end-December and which will be published and distributed prior to the final TAMS4CPS event taking place on January 30th (see also below).

The TAMS4CPs consortium thanks all workshop participants for their participation, active involvement and helpful comments!

All workshop presentations can be downloaded from the TAMS4CPS website.



Draft Strategic Research Agenda for Collaboration

In late November, the Draft Strategic Research Agenda for Collaboration (SRAC) was published. The Draft SRAC was used to validate the findings during the last TAMS4CPS stakeholder workshop and



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comments will be taken into account when finalizing the Strategic Agenda during the coming weeks.

The SRAC is the main output of the TAMS4CPS project summarising the findings and giving recommendations on how to enhance trans-Atlantic collaboration in the future. Collaborative research with the US is an opportunity to advance European M&S capabilities for CPS – and ultimately increase European innovation capacities. To this end, the SRAC identifies relevant research and development priorities in the field and illustrates which measures to be taken to further advance collaboration between EU and US stakeholders. This strategic agenda will provide a basis for future funding activities in M&S for CPS, be it in the US, the EU, or bi- or multilaterally, thus directly contributing to supporting major European policy objectives.

The Draft SRAC outlines the preliminary recommendations to both the EC and the research community to further strengthen trans-Atlantic collaboration in the coming decades. These findings are based to a large extent on the workshops undertaken as well as on the good practice case studies identified in TAMS4CPS. The outcomes of the TAMS4CPS workshops culminate in the collaborative agenda in M&S for CPS described in Chapter 5 of the Draft SRAC. Good practices are outlined in Chapter 7 which also describes incentives for and barriers to collaboration as well as collaboration mechanisms available and used todate. This is complemented by an outline of the general policy context of trans-Atlantic collaboration as well as an illustration of funding possibilities available to-date.

The Draft Strategic Research Agenda for Collaboration can be downloaded from the TAMS4CPS website. The final SRAC will be made available there in early January.

TAMS4CPS final event: save the date!

We are pleased to announce that the Road-2CPS and TAMS4CPS consortia will hold the Smart Cyber-Physical Systems Concertation Event on January 30th 2017 at the Bedford Hotel and Congress Centre, Brussels. The event will bring together the Cyber-Physical Systems, embedded intelligent systems and advanced computing communities across Europe and is particularly set to reinforce exchange and strengthen the links to the Artemis-IA, HIPEAC and the larger CPS community. The event will gather 15 projects funded under Horizon2020-ICT-1 2014 and 5 new Horizon2020 ICT-1-2016 projects.

During this event, TAMS4CPS will present the final Strategic Research Agenda for Collaboration. This Strategic Agenda aims to support EU-US collaboration on modelling and simulation for CPS and builds the foundation for future collaborative activities.

Road2CPS will present the final CPS Technology and Application Roadmap, which identifies and describes the relevant underlying technology fields and related research priorities to fuel the development of trustworthy CPS, as well as the specific technologies, needs and barriers for a successful implementation in different application domains

The final agenda and speakers will be announced in the coming weeks. Registration is possible already via the website. The TAMS4CPS and Road2CPS consortia will be delighted to see you there!



Join the TAMS4CPS Community of Experts!

ARE YOU AN EXPERT in modelling and simulation for CPS, interested in EU-US collaboration? If so, the TAMS4CPS consortium welcomes you to become a member of the TAMS4CPS community.

Join the TAMS4CPS Experts Group: www.tams4cps.eu/project-details/expert-community

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