PICASSO EU-US Expert Group Meeting 20th May 2016

Organised by PICASSO and hosted by NIST at the Department of Commerce

1401 Constitution Avenue, NW, Washington, D.C.

www.picasso-project.eu

Mission: Enhance EU-US ICT research and innovation collaboration responsive to societal challenges and industry needs, supported by harmonious policies, to enable economic growth in both the EU and US

5G Networks, Big Data, Internet of Things and Cyber Physical Systems – for smart cities, smart transport and smart energy

This document includes information about:
- Goal of Meeting
- Stakeholders
- Expected Outcomes
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Goals of Meeting

The aim of the meeting is to reinforce EU-US ICT collaboration and support the policy dialogue on pre-competitive research and innovation related to the societal challenges - smart cities, smart energy, smart transportation and in key enabling technologies: 5G Networks, Big Data, Internet of Things and Cyber Physical Systems. The meeting will present a panorama of the ICT landscape and programmes currently underway in Europe and the US as well as programmes in the rest of the world. Existing funding opportunities for collaboration will be highlighted. The views of the three EU-US ICT Expert Groups on 5G Networks, Big Data and IoT/CPS will be presented identifying gaps and opportunities, a map of challenges, open problems, and the needs for supporting policy measures and strategic EU-US initiatives (both policy and research related). Key actors, i.e. NIST, NSF, IMS, will be invited to highlight existing opportunities for collaboration. In order to assess policy issues that touch upon the domains in the focus of PICASSO, the EU-US ICT Policy Expert Group will take the results of the three technical ICT expert groups into account. A first horizontal overarching policy issue, Privacy and Data Protection aspects relevant for EU/US collaboration in these domains will be addressed both during the morning session of the ICT Policy Expert Group and during the afternoon plenary.

Stakeholders

The core expert groups comprise representatives from the EU and US who are all recognised experts in their domains. Membership in the groups is also open for representatives from related H2020 and US-funded industry-driven projects and ICT associations, networks and PPPs. There is strong industrial participation from SMEs, large corporations, leaders of key European networks, research & innovation clusters and leaders of roadmapping activities. The afternoon public workshop will allow the opportunity for engagement with the wider community from ICT-related projects, both from the EU and US, and for exploring opportunities for accompanying policy measures to further facilitate ICT research and innovation collaboration.

Expected Outcomes

The key expected outcomes of the meeting will be to:

- Increase the awareness of EU and US ICT policies relating to 5G, Big data, IoT/CPS, identify barriers and explore practical ways forward towards enhancing EU-US collaboration in ICT research and innovation;
- Increase the visibility of key programmes in the EU and US on smart cities, smart energy, smart transportation and in key enabling technologies: 5G Networks, Big Data, Internet of Things and Cyber Physical Systems;
- Highlight the key challenges in 5G Networks, Big Data and IoT/CPS and how these can be addressed by accompanying policy measures;
- Highlight the opportunities for joint research funding and other policy measures for improvement of EU-US ICT research and innovation collaboration;
- Identify areas for joint EU-US collaboration.

Agenda

Morning: Private Meetings of 4 PICASSO Expert Groups

Breakout Rooms: IOT/CPS (A005), 5G (A004), Big Data (C005), Policy (C006)

9.00 Welcome from Expert Group Chair

9.15 Identification of Key Challenges and Needs within Domain

10.30 Coffee Break

11.00 Formulation of Feedback for Public Meeting

- Gaps and opportunities
- Challenges and open problems
- Needs for future policies and strategic EU-US initiatives

12.00 Lunch (Room 1412)

Afternoon: PICASSO Public Meeting (Room 1412)

1.00 Welcome from NIST

1.05 Welcome from PICASSO (Inno)

1.10 Introduction to the overall PICASSO Project (Inno)

1.25 Planned Activities (Brief overview of each Working Group + Aims – Expert Group Chairs)

2.00 Panorama of Existing Projects in the EU and US (THHINK)

2.40 Overview of Access Opportunities (APRE)

3.00 Coffee Break

3.30 Working Group Reports

- Report Back from 5G Expert Group + Discussion (Expert Group Chair)
- Report Back from Big Data Group + Discussion (Expert Group Chair)
- Report Back from IoT/CPS Working Group + Discussion (Expert Group Chair)

4.30 Open Floor (Opportunity for invited EU/US Participants, i.e., NIST, NSF, IMS … to present collaboration opportunities relating to the domains to be explored by PICASSO)

5.10 DISCOVERY Transatlantic ICT Forum (European-American Chamber of Commerce - New Jersey)

5.20 Report Back from Policy Group and Panel Discussion on Key Policy Issue - Privacy and Data Protection issues relating to the three PICASSO domains (Expert Group Chair)

5.50 Round Up and Next Steps (Inno)

6.00 End of Meeting

List of Confirmed Participants

IoT/CPS Expert Group members
- Dr Sebastian Engell, Professor, TU Dortmund, Germany (chair)
- Dr Tariq Samad, Corporate Fellow, Honeywell, US (co-chair)
- Dr Massoud Amin, Director, Technological Leadership Institute, University of Minnesota, US
- Dr Chris Greer, Director of the Smart Grid and CPS Program Office and National Coordinator for Smart Grid Interoperability, NIST, US
- Dr Paul Nielsen, Director and CEO, Software Engineering Institute, Carnegie Mellon University, US
- Dr Haydn Thompson, CEO, THHINK, UK
- Dr O. Sinan Tumer, Senior Director, SAP Co-Innovation Labs, SAP Labs LLC, US
- Dr Ovidiu Vermesan, Chair WG01 Alliance for Internet of Things Innovation (AIOTI), Chief Scientist, SINTEF, Norway

Big Data Expert Group members
- Dr Nikos Sarris, member of Steering Committee Big Data Value Association, ATC - Athens Technology Centre (Chair)
- Prof. Dr. Sören Auer - University of Bonn, Head of Enterprise Information Systems group, Member of the leadership council of Fraunhofer-Insitute for Intelligent Analysis and Information Systems (IAIS)
- Dr Andreas Metzger - University of Duisburg-Essen, Head of Adaptive Systems and Future Internet Applications, Chief technical architect of the European Future Internet Public Private Partnership project on transport, logistics and agri-food (FIspace), Deputy general secretary of the Big Data Value Association (BDVA) and steering committee vice chair of the European Technology Platform NESSI - European Technology Platform dedicated to Software, Services and Data
- Michail Bletsas - MIT, Director of Computing at the MIT Media Lab, US
- Dr David Belanger - Stevens Institute of Technology, Senior Research Fellow, Co-Leader IEEE Big Data Initiative and member of the Board of Advisors - IEEE Transactions on Big Data, IEEE Transactions on Internet of Things , US
- Wo Chang, Digital Data Advisor for the NIST Information Technology Laboratory (ITL); Convener of the ISO/IEC JTC 1/WG9 Working Group on Big Data, co-chairs the NIST Big Data Public Working Group, US

5G Expert Group members
- Prof. Gerhard Fettweis, Vodafone Chair, TU Dresden, IEEE Fellow, member of acatech, coordinator 5GLab Germany (Chair of the 5G group)
- Leif Johansson, BusDev Manager Northern Europe, European Leaduser Manager RF/Communication, National Instruments, Sweden
- Prof. Chengshan Xiao, Missouri University of Science and Technology / NSF, US
- Dr Deborah Crawford, Director of International Computer Science Institute (ICSI), NSF - International Computer Science Institute (ICSI), US
- Dr Olav Queseth, Project Coordinator METIS I & II, Ericsson, Sweden (tbc)
- David Kennedy, Director, Project Coordinator EURO 5G, Eurescom, Germany
- Dr Amitava Ghosh, Head, North America Radio Systems Research, Nokia, US

Policy Expert Group members
- Maarten Botterman - GNKS, PIR Chairman, IGF DC IoT, NLnet (chair)
- Dr Jonathan Cave - Warwick University, GNKS, UK regulatory Committee Member (co-chair)
- Dr David Farber - Carnegie Mellon University, IEEE fellow, ACM fellow, US
- Dr Robert Pepper – Cisco, US
- Dr Avri Doria - ICANN/NCUC, US
- Dr Ilkka Lakaniemi - Chairman of Future Internet Public Private Partnership, Finland Chamber of Commerce, Aalto University, Finland

EC and EU Member States
- Andrea Glorioso, Counsellor, Digital Economy / Cyber, Delegation of the European Union to the USA
- Giulio Maria Busulini, Italian Embassy in Washington, Science and Technology Attaché

US Government Agencies
- Abdella Battou, NIST (Big Data)
- Ken Calvert, NSF (Big Data)
- Richard Conroy, NIH (IoT/CPS)
- Erwin Gianchancani, NSF (IoT/CPS)
- Nada Golmie NIST (5G)
- Edward Griffor, NIST (IoT/CPS)
- Robert Hanisch, NIST (Big Data)
- Graham Harrison, NSF (5G)
- Keith Marzullo, NITRD (IoT/CPS)
- Grant Miller, NITRD (5G)
- Thyaga Nandagopal, NSF (5G)
- Vinay Pai, NIH (IoT/CPS)
- Raymond Richards, DARPA (IoT/CPS)
- Jim St Pierre, NIST (IoT/CPS)
- Shyam Sunder, NIST (Big Data)
- Cliff Wang, US Army Res Office (5G)
- David Wollman; NIST (IoT/CPS)
- Marie Geiger, International Trade Administration (ITA), US
- Ann Ngo, International Trade Administration (ITA), US
- Tshanda Kalombo, International Trade Administration (ITA), US

Other Organisations
- Jack Harris, General Manager for the PDES Inc. (Formally Director of Manufacturing Technology, Rockwell Collins) - Big Data topic
- Dan Nagy, Managing Director, Inter-Regional Secretariat IMS – Intelligent Manufacturing Systems - CPS/IoT topic
- Prof. Rebecca Wright, Department of Computer Science, Director, DIMACS Center, Rutgers University, US
- Camille E. Sailer, Esq., President, European American Chamber of Commerce - New Jersey, US
- Yolanda Ursa, Director Innovation Management, Inmark Europa, Spain
- Jim Clarke, EU Strategic Liaison Manager, Telecommunications Software & Systems Group (TSSG), Waterford Institute of Technology, Ireland
- Jesse Szeto, Director, NCURA Global, US

- Eleonore Pauwels, Senior Program Associate, the Science and Technology Innovation Program, Wilson Center, US
- Daniel Caprio, Co-founder and Executive Chairman, the Providence Group, US
- Jeff Brueggeman, Vice President Global Public Policy of ATT, US

PICASSO Consortium Partners
- Svetlana Klessova, Director, inno TSD, France (project coordinator)
- Eva Fadil, Project Manager, inno TSD, France
- Margot Bezzi, APRE - Agency for the Promotion of European Research, Italy
- Christian Sonntag, TU Dortmund, Germany
- Steffen Watzek, TU Dresden, Germany
- Vasilis Papanikolaou, ATC, Greece

Contact PICASSO:

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Disclaimer

PICASSO has been financed with support from the European Commission. PICASSO brings together prominent specialists willing to contribute to enhancement of EU-US ICT collaboration. PICASSO does not represent EU or US policy makers, and the views put forward do not necessarily represent the official view of the European Commission or US Government on the subject. PICASSO cannot be held responsible for any use which may be made of information generated.