

EU-TW 5G Workshop

Date: June 27 (Tue), Brussels, Belgium

Venue: Royal Flemish Academy for Science and the Arts

Context and Objectives:

Global leading countries are competing fiercely in the race to 5G which will bring about fundamental changes in the way business functions and how people live. Both EU and Taiwan have launched ambitious 5G research and development initiatives and engaged in cooperation on 5G.

The event follows previous contacts between EU and Taiwanese administration. It takes place in the context of preparing the execution of the current phase and preparatory consultation of the next phase of implementation of the H2020 (Horizon 2020) program. The first EU-Taiwan joint 5G Workshop was held at European Commission (EC) on October 24, 2014 and the second joint workshop took place in Taiwan on June 3, 2016.

The objectives of this workshop are consequently:

- To exchange information on state of global 5G development including key technologies, standards setting, and innovative applications in vertical industries, especially in IoT.
- To share results of the existing H2020 projects in which Taiwan participate and discuss execution of the projects for EU-TW Targeted Opening Call (TOC) in the 2nd phase of H2020 5G program.
- In the mid-term, to prepare for the Targeted Opening Call in the 3rd phase of H2020 5G program as well as promote EU and Taiwan collaboration beyond Targeted Opening Calls and contributions to international standards organizations.

9:00 – 9:30 Registration

9:30 – 10:00 Joint Opening Ceremony – EC & Taiwan

- EU: *Mr. Antti Peltomäki, Deputy Director-General, Internal Market, Industry, Entrepreneurship and SMEs, DG GROW*
- TW *Mr. Chih-Kung Lee, Minister, Ministry of Economic Affairs*

10:00 – 11:30 5G Collaboration – EC & Taiwan ---Section 1

Co-Moderator: DG CONNECT *Bernard Barani, Future Connectivity Systems, DG CNECT*

Co-Moderator: *Dr. Li-Fung Chang, Chief Architect, 5G Program Office, MOEA*

EU Speakers:

- [1] **“State of global 5G development”**, *Jean-Pierre Bienaimé*, 5G-PPP
- [2] **“Technology development in EU”**, *Emilio Calvanese Strinati*, Smart Devices & Telecommunications Strategy Program Director, CEA-LETI

Taiwan Speakers:

- [1] **“Update of Taiwan’s 5G Program”**, *Dr. Li-Fung Chang*, Chief Architect, 5G Program, MOEA
- [2] **“Small cell development in Taiwan – From Perspective of TAICS”**, *Pang-An Ting*, Vice Chairman, Advanced Mobile Communication Technical Committee, TAICS

11:30 – 13:00 5G Core Network & Testbed ---Section 2

Co-Moderator: DG CONNECT *Pertti Jauhiainen*, Future Connectivity Systems, DG CNECT

Co-Moderator: *Dr. Jason Yi-Bing Lin*, Vice Chancellor & Chair Professor, National Chiao Tung University

EU Speakers:

- [1] **“mmW trials”**, *Thomas Haustein*, Fraunhofer HHI
- [2] **“5G Crosshaul architecture”**, *Antonio de la Oliva*, Assistant Professor, Telematics Department, Universidad Carlos III de Madrid

Taiwan Speakers:

- [1] **“EPC towards 5G core networks”**, *Chih-Hsin Lin*, Section Manager, III
- [2] **“5G Trial System”**, *Howard Tsao*, Technical Director, ITRI

13:00 – 14:00 Lunch, Networking

14:00 – 15:00 5G Radio Access Network –Section 3

Co-Moderator: DG CONNECT *Pertti Jauhiainen*, Future Connectivity Systems, DG CNECT

Co-Moderator: *Sheng-Lin Chou*, Secretary General, Taiwan Association of Information and Communication Standards (TAICS)

EU Speakers:

- [1] **“New Air Interfaces and Network Evolution”**, *Klaus Moessner*, EU 5GIC, University of Surrey
- [2] **“Future distribution systems”**, *Darko Ratkaj*, Research Manager, EBU

Taiwan Speakers:

[1] **“5G Network MIMO Technology”**, *Steven Hsu*, Manager, ITRI.

[2] **“Highly Coordinated Ultra Dense Network”**, *Shawkang Wu*, Technical Director, ITRI

15:00 – 15:30 Coffee Break

15:30 – 16:30 Vertical 5G IoT General –Section 4

Co-Moderator: *Prof. Yu-Chee Tseng*, National Chiao Tung University (NCTU)

Co-Moderator: Alliance for IoT Innovation (AIOTI)

EU speakers:

[1] **“IPv6-based 5G & IoT”**, *Dr. Latif Ladid*, President of the IPv6 Forum, Chair of the IEEE ComSocIoT and Chair of the IEEE ComSoc 5G Committee, Ericsson

[2] **“IoT Economy Opportunities and their impact in EU”**, *Kees van der Klauw*, Philips

[3] **“5G!Pagoda and its study on 5G-IoT integrated business challenges and opportunities”**, *Dr. Eunsook Eunah Kim*, Device Gateway

Taiwan speakers:

[1] **“IoT Economy Opportunities and their impact on Taiwan's Smart City Development”**, *Dr. Ming-Whei Feng*, SNSI, III

16:30 – 17:30 Vertical 5G IoT Technologies –Section 5

Co-Moderator: *Prof. Yu-Chee Tseng*, National Chiao Tung University (NCTU)

Co-Moderator: Alliance for IoT Innovation (AIOTI)

EU speakers:

[1] **“Enabling early prototyping of Industrial IOT Solutions based on emerging 5G & Edge Computing Standards”**, *Prof. Dr. Magedanz*, Fraunhofer FOKUS

[2] **“IoT and MEC: A marriage made in heaven”**, *Alain Mourad*, Interdigital UK

Taiwan speakers:

[1] **“IoT Technology and Application”**, *Prof. Yu-Chee Tseng*, National Chiao Tung University (NCTU)

[2] **“V2X Development in Taiwan”**, *Dr. Ting-Jung Liang*, ICL, ITRI