



January 25-28, 2015 – Can Tho, Vietnam
EU-SEA WORKSHOP AND COOPERATION
ON INTERNET OF THING AND OPEN PLATFORMS
CAN THO January, 25th, 2015

Meet the EU Internet of Things R&D community
See experience of Internet of Things in South East Asia

Internet of things (IoT) is one of the most promising ICT technologies connecting objects, machines and people in smart ways. IoT success relies on using communications technology with affordable Internet infrastructure to provide an unlimited number of end user services and applications. IoT technologies are accepted also as enabled through more and more open-source and open platforms, that can have a broad range of applications to improve our life. IoT have extensive applications in transport, cities, energy, agriculture, etc.

All IoT-related EU research projects are actually coordinated within a cluster called **IERC (Internet of things research cluster)** which is today coordinating +15 EU research projects for € +75 Millions.

MEET THE EU IoT community to develop further cooperation but more importantly to bring experiences to stimulate cooperation in IoT research and platforms for the whole SEA region.

09:00am - EU-SEA IoT and open platforms for addressing societal challenges 60'

Overview on IoT and open platforms for addressing societal challenges

- Presenters from SEA
- Philippe Cousin (EGM, IERC) – IERC & Smart Action project

10:00am – COFFEE BREAK 30'

10:30am - EU-SEA research excellence in the area of Internet of Things 120'

Key IoT research topics (60')

- An overview of IoT research and challenges for H2020 ICT-30 – Philippe Cousin
- Federated semantic Cloud and IoT test-beds – Martin Serrano (INSIGHT, Ireland)
- IoT for surveillance applications – Congduc Pham (Pau University, France)
- IoT challenges and open-source solutions – Charalampos Doukas (Create-Net, Italy)

SEA excellence in IoT R&D (60')

- Presentation from Vietnam research group : Hoang Huu Hannh (Hue Univ., Vietnam)
- Presentation from Thailand research group : Kittichai Lavangnananda (KMUTT, Thailand)
- Presentation from Singapore research group: Hwee-Pink Tan (Institute for Infocomm Research, Singapore)
- Presentation from Malaysian research group: Gopinath Rao Sinniah (MIMOS Berhad)

1:00pm – LUNCH BREAK

90'

2:30pm – Applications with Open platforms to stimulate innovation

120'

Applications and open platforms – EU cases (60')

- Smart Cities - Open Source-Open Platforms: OpenIoT & Butler Presentation (M. Serrano)
- Sounds for Smart Environment: Ear-IT Presentation (P. Cousin & C. Pham)
- Wearable Internet: developing human-driven technologies with connected personal and wearable devices (Antonio Jara, HES_SO, Switzerland, HOP Ubiquitous CEO)
- An IoT-based System for Energy Efficiency in Smart Buildings (Antonio Skarmeta, University Murcia, Spain)

Applications and open platforms – SEA cases (60')

- Open Platform Singapore and Smart City activities (Hwee-Pink Tan)
- Health Monitoring and Assistance for Aging Society (Kittichai Lavangnananda)
- Mekong Delta: measuring and managing risks (Hiep Xuan Huynh, Can Tho Univ.)
- IoT applications for aquaculture & development of rural areas (Gopinath Rao Sinniah)

4:30pm – COFFEE BREAK

30'

5:00pm - Roundtable discussion on EU-SEA IoT R&D collaboration mechanisms 60'

A circular layout of the audience will enable each participant to jointly discuss and debate on concrete topics of mutual interest for EU-SEA collaboration in the field of IoT including Open platform for IoT. This session will also aim at identifying concrete opportunities on projects on EU-SEA research cooperation in IoT including on participation to H2020 ICT-30 call.

6:00pm - Wrap-up & Recommendations

30'

Roundtable discussion conclusions

Roadmap, opportunities & closing remarks

Agenda January, 26th-27th, 2015

Internet of Things and Open Platforms Hackathon & Tutorials & Demo

The Hackathon & Tutorial & Demo event is scheduled on 2 days. We propose to have roughly the same program for each days, allowing people from RIVF to attend these tutorials and demos according to their preferences. Based on future opportunities of presenters, we may include on one particular day an additional tutorial or/and demo.

January 26th

10:30am Hackathon & Tutorials & Demo

- Hand-on OpenIoT middleware (tutorial & lab)
- Multimedia transmission on Wireless Sensor Networks and IoT (tutorial & demo)

1:00pm – LUNCH BREAK

90'

2:30am Hackathon & Tutorials & Demo

- Hand-on Singapore Open Platform (tutorial & lab)
- 6LowPan, RPL & CoAP (tutorial & demo)

4:30pm – COFFEE BREAK

30'

End of the day

January 27th

10:30am Hackathon & Tutorials & Demo

- 6LowPan, RPL & CoAP (tutorial & demo)
- Hand-on Singapore Open Platform (tutorial & lab)

1:00pm – LUNCH BREAK

90'

2:30am Hackathon & Tutorials & Demo

- Hand-on OpenIoT middleware (tutorial & lab)
- Multimedia transmission on Wireless Sensor Networks and IoT (tutorial & demo)

4:30pm – COFFEE BREAK

30'

End of the day