



IoT and Edge Convergence – Moving towards European solutions

Where and when

30.11.2021. Online Webinar

IoT/IIoT and Edge Computing convergence: how to move towards European solutions

Internet of Things (IoT), Industrial Internet of Things (IIoT) and edge computing are at the core of digitalisation, with key industrial sectors seeing great potential in these technologies. New IoT and edge capabilities drive the decentralisation of architectures and topologies and accelerate the decarbonisation of applications in industrial sectors.

Edge computing has also triggered a paradigm shift in cloud computing. There is a clear need to orchestrate resources to create a "computing continuum". We are seeing calls for a new operating system at the edge for decentralised IoT/IIoT computing architectures and real-time processing.

Open industrial IoT edge computing platforms must strive for leadership to address the challenges of the evolving digital age.

We will demonstrate how this can be done by using IoT/IIoT as a driver, what are the opportunities and challenges for European industries as well as future outlook of what Europe needs to do in order to reap the benefits of the new digital revolution.

We will also discuss and make proposals on how Europe can:

1. Put IoT/IIoT and edge computing are at the core of digitalisation, with key industrial sectors seeing great potential in these technologies
2. Drive the decentralisation of architectures with new IoT and edge computing capabilities and topologies, and accelerate the decarbonisation of applications in industrial sectors
3. Orchestrate resources to form a "computing continuum"
4. Design new operating system at the edge for decentralised IoT/IIoT computing architectures and real-time processing
5. Striving for leadership in open industrial IoT edge computing platforms

The main objective of the event is to see how IoT/IIoT and Edge Computing convergence fits with the ongoing initiatives by the European Commission and on the market.

Participants will gain insights in AIoTI contribution to IoT/IIoT and Edge Computing in research and deployment, linking it with major EU initiatives and available funding.



Agenda

14.00 Opening and Welcome

Jürgen Sturm, AIOI Management Board Chairman

Tanya Suarez, AIOI Management Board member, moderator of the event

14.05 Keynote speech

Amaryllis Verhoeven, European Commission, DG GROW, Head of Unit for Digital transformation of industry

14.45 Strategic Agenda and Collaborations session:

14.45 *AIOI Advancing European IoT and Edge Computing Research and Innovation. Priorities and Synergies across Horizon Europe Partnerships*

The session will provide an overview of the AIOI research and innovation priorities and present the trends and advancements of next-generation IoT and edge computing technologies as part of the computing continuum. The presentations and discussions will highlight the specific technological elements, the complementarities and synergies with other European partnerships that provide the mechanisms to strengthen the European value chains in intelligent IoT developments by integrating relevant technology elements of IoT, edge computing, digital twins, connectivity, artificial intelligence (AI), and cybersecurity.

Introduction: Ovidiu Vermesan, SINTEF, Chair of AIOI Research and Partnerships WG

Moderator: Natalie Samovich, Enercoutim, Chair of AIOI Energy WG

Panelists:

Pierre-Yves Danet, Orange, Member of the Board 6G IA

Valerio Frascolla, Intel, Member of the Board BDVA-DAIRO

Michael Malms, ETP4HPC/Transcontinuum Initiative

Pierre Gronlier, CTO of Gaia-X AISBL

15.30 Q&A

15.45 Short break

16.00 Forward looking session:

Envisioning buildings block towards European solutions for IoT/IIoT edge computing in Europe:

Unlocking opportunities and tackling challenges and risks and in how IoT/IIoT can be driver of more green, digital and resilient Europe, how to build a single market for IoT/IIoT edge computing in Europe? How to capitalise on the shift of value creation to the edge?



16.00 *How IoT and Edge Computing enable achieving Green Deal targets: Circular Economy/Green IoT*

Introduction: Miguel Angel Gomez Zotano, NTT Data, Co-Chair of AIoTI Digital for Green Group

Moderator: Francesca Poggiali, GS1, Chair of AIoTI Digital for Green Group

Panelists:

Dieter Wegener, Siemens, Head of External Cooperation

Georgios Karagiannis, Huawei, Chair of AIoTI Standardisation WG

Maciej Kowalczyk, European Commission, DG CLIMA, Policy Officer

Ilias Iakovidis, European Commission, DG Connect, Adviser on Green Digital Transformation

16.45 Q&A

17.00 *European Data Strategy from the IoT market perspective*

Introduction & Moderator: Alena Siarheyeva, NuMint, Co-Chair of AIoTI Innovation Ecosystem WG

Panelists:

Anna Ludin, European Commission, DG Connect, Data Policy and Innovation Unit

Rolf Riemenschneider, European Commission, DG Connect, IoT Unit

Nicolas Kourtellis, Telefonica, Research Scientist

Giovanni Aiello, Engineering Ingegneria Informatica, Technical Manager

17.45 Q&A

17.55 **Call for Action**

18.00 **End of Webinar**