Latest Activities in AIOTI
SESSION 8: The Role of MEC (Multi-access Edge Computing) in IoT Digital Transformation

Presented by: Antonio Kung
Presentation of AIOTI
Mission and Vision

Mission

To drive on behalf of our members *business, policy, research and innovation development* in the IoT & Edge Computing, AI and other converging technologies across the Digital Value Chain to support digitization in Europe, and competitiveness of Europe.

Vision

Together we aim to lead, promote, bridge and collaborate in IoT & Edge Computing, AI and other converging technologies research and innovation, standardisation and ecosystem building providing IoT deployment for European businesses creating benefits for European society. We co-operate with other global regions to ensure removal of barriers to development of the IoT & Edge Computing market, while preserving the European values, including privacy and consumer protection.
Alliance for IoT and Edge Computing Innovation

Main Themes

- IoT/IoT/edge/AI applications in verticals
- IoT/IoT as an engine for convergence in Computing continuum

Thought Leadership

- We support development of the EU policies, regulation, strategies and standardisation by providing examples, best practices, use cases and testbeds

Collaboration

- With our partners we develop R&I agenda for EU funded projects and partnerships
- We help our community to build consortia for EU funded projects
Community

186 Members

807 Contributors

9 Groups

7 Focus Groups

7 Task Forces

42 Corporates

63 SMEs

59 Research/Academia

21 Associations

1 Public Authorities
How we work

**Horizontal WG**

- Research & Innovation
  - Innovation Ecosystems
  - SCoDHNet
- Standardisation
  - Semantic Interoperability
- Testbeds
  - Landscape, Gaps, Comp Continuum, IoT and relation to 5G
- Policy
- Security & Privacy
  - High-Level Architectures

**Vertical WG**

- Agriculture
- Energy
- Buildings & Communities
- Health
- Manufacturing
- Mobility

**Task Force**

- Digital for Climate
- Early Innovation Champions
- Web3 Accelerator
Role of IoT in addressing the agroecological focus of the Green Deal
Role of IoT in addressing biodiversity and environmental monitoring

Energy Efficiency Directive recast
Renewable Energy Directive recast
(IoT value for building and infrastructure)
IoT and Crisis Preparedness
Online Catalogue of Solutions
IoT Improving Healthy Urban Living

Open Energy Marketplaces Evolution - Beyond Enabling Technologies
Digitalising Energy System Action Plan
Energy Flexibility Solutions
Electricity Market Design
(Edge driven Digital Twins in distributed energy systems)
EC Smart Grids Expert Group

AI for better health
(Health Data and Data Spaces)

Electric vehicles (EV) and electric vehicle charging User Cases driven approach
(White Paper on future mobility)

Business Impact of IoT in Manufacturing Industries
Selection of four Reports
Computing Continuum Scenarios, Requirements and Optical Communication enablers

Release 1.0

AIOTI WG Standardisation

April 2022
Report 2 (Planned)

Towards Computing continuum reference architecture

https://eucloudedgeiot.eu/
Impact of Report 3

- Preliminary work item in ISO/IEC JTC 1/SC 41 IoT and Digital twins

Guidance on the integration of IoT and digital twins in data spaces

ISO/IEC JTC 1/SC 41/AG 31 Draft
April 2023

Source (Antonio Kung - FR, AIOTI, Jiezhan - CN, Jan de Meer - DE)
Impact of Report 3
Guidance on integration of IoT/Edge in Data Spaces

Mapping DIKW pyramid to digital twins
High Level Architecture and digital twins

- Common initiative AIOTI, BDVA/Adra e, StandICT/HSBooster
  - Antonio Kung, Ame Berre, Ray Walshe

- Context
  - Horizon projects on digital twins
  - Strategic liaison with ISO and ITU-T
Thank you for listening

Any questions?

Antonio.kung@trialog.com and sg@aioti.eu