

Standardisation perspectives in smart city ecosystem

At the initiative of the European Standards Organization ETSI (ATTM committee), eG4U NGO in partnership with the EUROCITIES network, the City of Montrouge and Métropole du Grand Paris, summarizes the progress of the 'New Towns' projects in terms of standards within the European Union: smart sustainable city indicators, energy and carbon indicators, standardization of IoT and M2M implementation, pandemic monitoring, smart building management, waste management, video transmission, lighting and 5G infrastructure , normative actions of Grand Paris ...

15:00 Opening

Pascal Hureau, Mairie de Montrouge, eG4U member

By hosting this first event of the ETSI ATTM Roadshow, the deputy mayor of Montrouge presents the sustainable commitment of a city of Métropole du Grand Paris.

15:15 European Commission Roadmap on Smart Cities and Communities

Franck Boissière, European Commission

Within the framework of the next calls for projects, the European Commission proposes to share the main lines of financing, regulation and support in the areas of smart cities and communities.

15:30 Session 1: Standardization value for Businesses, Users and Citizens

The two main issues that communities face before planning to implement new solutions are the cost (from an investment and operational perspective) and their confidence in the ability of those same solutions to evolve and expand. Interoperability and standardization play a key role in both aspects. The consequences for providers that comply to standards are an immediate development and expansion of their business. Cities as end-users, and hence the living environment of their citizens, gain immensely from the use of standards solutions.

- **15:30 European Standardization Landscape on Smart Cities and Communities**

Patrick Guillemin ETSI (Smart M2M Technical Officer)

Focused on ETSI operational standardization, including the Smart Applications REFERENCE ontology (SAREF), a European landscape describes deployment of efficient and sustainable systems and services in so-called smart cities and communities.

- **15:45 Efficient Digital Services Monitoring in Smart Cities and Communities**

Christophe Colinet, Bordeaux Métropole/eG4U/Eurocities

So-called smart cities and communities must be efficient and sustainable. They must constantly justify their level of sustainability through effective operational monitoring of services and digital networks, data centres included. This monitoring is to be carried out using global key performance indicators: Global KPIs

- **16:00 Pandemic monitoring**

Luigi Liquori, INRIA
Cees Lanting, eG4U

Faced with the health problem of the COVID 19 pandemy (SARS-CoV-2 virus), standardization work is being carried out at ETSI on pandemic monitoring: methods and tools.

- **16:30 Efficient energy management (Data Communication Energy Management) and carbon intensity management (Data Communication Carbon Management)**

Guillaume Gérard, Orange

So-called smart cities and communities must take into account energy management (DCEM) and carbon intensity management (DCCM) in order to ensure ICT sustainability.

- **16:45 Efficient Waste Management**

Gilles Dretsch, Orange

So-called smart cities and communities must take into account waste management of equipment in order to ensure ICT sustainability.

- **17:00 Questions & Answers**

17:15 Session 2: Essential Digital Infrastructure for Smart Cities and Communities

In order to quickly implement new digital services, communities need to be able to rely on robust and interoperable digital infrastructures. This is the focus of this session, which targets both very high-speed backhaul networks and next-generation mobile networks.

- **17:15 Sustainable & Efficient Smart Building**

Daniel Zotti, Occitaline

So-called smart buildings must be developed by integrating sustainable and efficient networks and systems. These must be interoperable, ensuring quality and security of service.

- **17:30 5G Smart Pole Standards, Solutions & Field case**

Selina Qifei & Emmanuel Colho Alves, Huawei

ETSI standard TS 110 174-2-2 describes the use of lamp-posts, pervasive in urban areas, as a physical infrastructure to host devices to provide data to support evolving efficient management of sustainable and smart cities.

- **17:45 Efficiency of New Video Transmission Systems**

Abdel Benothmane, VDSYS

In a sustainable development approach, essential elements for the development of Safe & Smart Cities such as high-speed wireless transmission networks and artificial intelligence must be taken into account for citizen safety and prevention of environmental risks.

- **18:00 Efficient & Sustainable Metropolitan Network of the Smart City**

Lynn Reiner & Gilles Genin, InGeTel-BET

Networks deployed in so-called smart cities must meet the needs of citizens while remaining sustainable, using the least carbon-intensive equipment.

- **18:15 Questions & Answers**

18:30 Closing

