Standards for Smart Cities – European activities

Challenges facing tomorrow’s urban infrastructure and sustainable urban development – standardization initiatives of DIN and DKE

Cities occupy less than two percent of the earth’s surface, yet they consume between 60 and 80 percent of the available energy worldwide and are responsible for 75 percent of greenhouse gas emissions. In the light of diminishing resources and global population growth, the need for sustainable urban development and a common set of metrics to monitor it is becoming ever more urgent. Standards are already contributing to sustainable development in the following areas:
Smart Cities
European Standardization Activities

Join the Platform…
... to share your smart city solution proposals, best practices, project ideas and more!

AENOR

NOTA DE PRENSA

Unos 200 expertos forman el comité español de Smart Cities

Aprobadas las líneas de trabajo del comité español de normas sobre Ciudades Inteligentes
Activities in United Kingdom

• „…to ensure the technology fulfills its potential, the British Standards Institution (BSI) has been commissioned by the UK Department of Business, to formulate a Smart Cities Standards Strategy; …identify the needs and concerns of stakeholders and explore where standards might facilitate the uptake of the Smart Cities concept.”
  (Source: BSI website, 2013-05-01)

• New initiative to support $40 billion smart cities in the UK
  (Source: gov.uk website, 2013-10-09)
  • Bristol
  • Manchester
  • Birmingham
  • Glasgow

• BSI published Draft Publicly Available Specification (PAS) Smart Cities Vocabulary, Draft for comment only (2013-09-30)
Activities in France and Italy

France: AFNOR and his Chinese counterpart, SAC signed an official statement of cooperation on standardization; the currently identified areas include: "smart cities", the management of energy, environmental protection, food, railway equipment, IT, social sector, health. (Source: AFNOR website, 2013-04-26)

Italy: several activities in Italian cities and communities
Activities in Spain

Smart Cities – Infrastructure

- PNE 178101 Public Service Networks
- PNE 178102 ICT network infrastructures: Fibre optic networks, wireless networks and data processing centres.
- PNE 178103 Convergence of the Management-Control Systems in a Smart City
- PNE 178104 Integrated systems for a Smart City
- PNE 178105 Universal accessibility, urban planning and territorial ordinance
- PNE 178106 Guides with Specifications for Public Buildings
Activities in Germany

Steering Committee
*Smart Cities*
[DIN]

- **Buildings** [DIN]
- **Safety and Security** [DIN]
- **Mobility** [DIN]
- **Smart Grid/Energy** [DKE]
- **Information and Communication** [DKE]
- **Urban Processes and Organization** [DIN]
- **Production** [DKE]
- **Logistics** [DIN]

Standardization Roadmap [DKE]
CEN/CENELEC Smart + Sustainable Cities and Communities Coordination Group (SSCC-CG)

- **Founded** in 2012
- **Currently:** Evaluation of European Activities
- **Goal:** Coordination of European Activities after creating and submitting an evaluation report to the European Commission
- **Members:** Various CEN/TC members (industry), EU-Commission, NSB representatives, ETSI representatives
Activities at CEN/CENELEC

CEN/CENELEC Smart + Sustainable Cities and Communities Coordination Group (SSCC-CG)

Implemented Task Groups:

TG 1: Mapping of relevant International, European and national standardization initiatives

TG 2: Mapping of stakeholders and interested parties in Europe

TG 3: Mapping of topics and issues to be dealt with under the SSCC-CG scope
Activities of EU Commission

Governance

- High-Level Group
- Sherpa Group

Input: Strategic Implementation Plan (SIP)

Feedback

Implementation

- Lighthouse projects & activities (H2020 & other funding sources)
- Other projects & activities (other funding sources)
- Regulatory issues, standards, etc.

Stakeholders

- Member States
- Associations (Eurocities, ICLEI, etc.)
- Initiatives (CONCERTO, Covenant of Mayors, CIVITAS, etc.)
High Level Group of the European Innovation Partnership for Smart Cities and Communities

**Strategic Implementation Plan**

The plan outlines ideas on how to best harness innovative technologies and innovative public private partnerships. Actions needed to make our cities better places to live and to reduce:

- energy use
- carbon emissions and congestion

**26 November 2013** – Launch event for Strategic Implementation Plan of the European Innovation Partnership for Smart cities and communities

**January 2014** – Start of implementation phase of European Innovation Partnership under *Horizon 2020*. 
Activities of EU Commission

Keys to Innovation – Integrated Solutions

• Advanced Materials for Energy Efficient Buildings
• Heat Pump and Micro-CHP as Complementary Boiler Alternatives
• ICT Stack for Energy Management
• Smart renovation and retrofit of buildings and services
• Zero-Energy Buildings with Low-Energy Storage
• Virtual Power Plant
• Smart Thermal Grids
• Smart Integrated Energy Governance
• Smart Grid Systems
• E-Mobility and Power Matching
• Cooperative Intelligent Transport Systems and Services
• Enabling Seamless Multimodality for End Users
• Smart Organization of Traffic Flows and Logistics
International Activities

ISO Task Force Smart Cities

DIN is heading a strategic liaison committee at ISO

This ISO/TF Smart Cities should ensure involvement of ISO/TCs as they see fit and furthermore should monitor other national, regional and international activities.
IEC/Systems Evaluation Group (SEG)

Founding members: Japan, China, Germany

Inaugural Meeting: Dec. 9th and 10th 2013 (DIN, Berlin)

Goal: evaluation of global Smart Cities activities and creation of a standardization roadmap
Thank you!

More information:

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Be a part of it

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