

SCC-03-2015

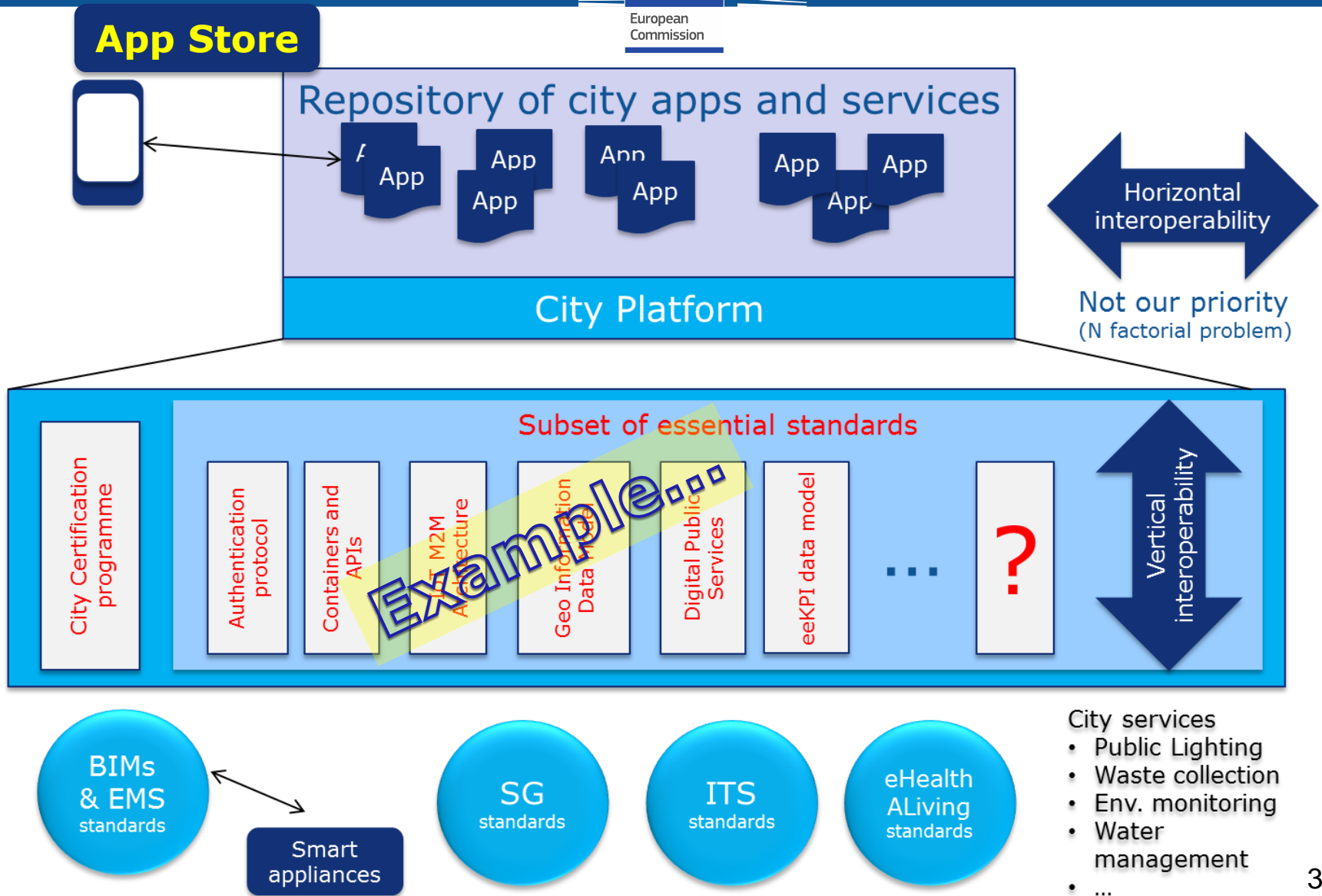
Development of system standards for smart cities and communities solutions

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Agenda

- General vision
- Principles for this standardisation
- Further instructions
- Expected impact
- Call information
- Online information

General vision



Principles for this standardisation:

- **Identify** and in case of need **develop**, a subset of **open standards** (based on a minimum set of to-be-defined requirements in terms of interoperability potential, openness and reference implementation validation) **essential** for any City Platform, so that:
 - the **vertical interoperability** requirements towards (i) **sectorial systems** and (ii) city **applications and services** with the platform are well defined
 - the **adaptation** of city **applications and services** from city platform to city platform is **minimised**
- **Reuse** as much as possible existing work **to reduce** delivery **time**. Do not revise standardisation at the sectorial level.

Principles for this standardisation (2):

- **Horizontal interoperability of applications and services** running on top of city platforms is not practical at this first stage and is **out of the scope** of this standardisation exercise.
- This subset of essential open standards could form the basis of a **"soft" certification** programme via special conformity testing labs or other ways of certification (e.g. manufacturer declaration of conformity).

Further Instructions

- Industry, cities and communities and standard developing organisations
- Cooperation activities with the priority area "standards"/"urban platform" of the European Innovation Partnership on Smart Cities and Communities
- Cooperation with the projects selected under SCC1 in order to ensure rapid marked take-up of the proposed standards

Expected impact:

- Accelerate the deployment of Smart Cities and Communities - bring to the market
- Open the market for multiple actors
- International dimension/impact (beyond Europe)
- Cost reduction
- Avoid vendor lock-in



- **Type of action:**
Coordination and Support Action

- **Indicative budget :**
0.5-1 M€

- **Date of publication:**
10/12/2014

- **Call deadline:**
05/05/2015

Online information

Call text:

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2149-scc-03-2015.html>

Background paper:

[http://ec.europa.eu/research/participants/portal/doc/call/h2020/h2020-scc-2015/1637620-sc accompanying doc scc3 en.pdf](http://ec.europa.eu/research/participants/portal/doc/call/h2020/h2020-scc-2015/1637620-sc_accompanying_doc_scc3_en.pdf)

Thank you for your attention!

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Disclaimer: The opinions in this presentation are those of the author and do not commit in any way the European Commission

Back-up slides

Scope

Today the standards are developed for specific components or areas such as smart meters, smart grids, ICT etc. With the development of integrated solutions of Smart Cities and Communities a system approach is needed. Furthermore through standardisation the solutions identified by smart cities and communities can envisage costs reductions. It is expected that this work is carried out by the industries, cities and communities contributing to the Smart Cities and Communities European Innovation Partnership in cooperation with the European Standardisation Organisations (CEN, CENELEC, ETSI) as well as other Standard Developing Organisations (SDOs) responsible for technical specifications in the area of Smart Cities. Social acceptance of developed solutions might be considered.

Scope (continued)

The process for developing smart cities and communities standards should ensure:

- interoperability of solutions, i.e. adaptability of solutions to new user requirements and technological change as well as avoidance of entry barriers or vendor lock-in through promoting common meta-data structures and interoperable (open) interfaces instead of proprietary ones;
- open and consistent data, i.e. making relevant data as widely available as possible – including to third parties for the purpose of applications development – whilst using common, transparent measurement and data collection standards to ensure meaningfulness and comparability of performance/outcome measurements.
- This action will cross-fertilise and cooperate with actions under topic SCC 1 – 2014/2015.