"Digital solutions for integrated city management and use cases" & "Compendium of survey results on integrated digital solutions"

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Objectives. Working Groups. Experts.

This Thematic Group highlights from a city perspective: current best city practices, unresolved challenges and requirements that must be tackled via integrated city management, as well as a new version of the agile response architecture made up of advanced technologies, and the outlook for deployment in different environments.

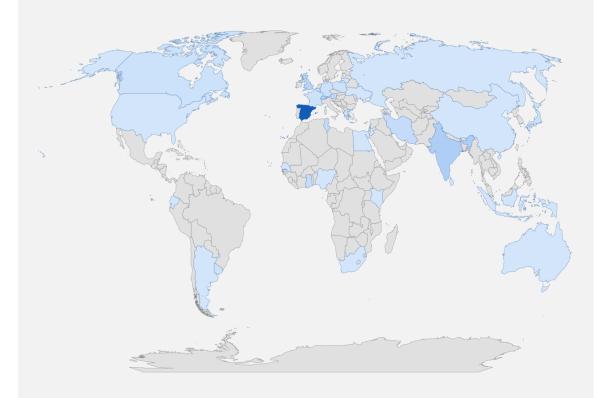
This thematic group comprises five working groups:

WG1: Digital Solutions for integrated city management & use cases.	hea mana	WG2: Smart public health emergency management and ICT implementations.			WG3: New architecture for sustainable, digital development.	
WG4: Smart Tourism: a path to more secure and resilient destinations			WG5: Reference for an int management sustainat	rated f a smart		

103 submissions



- 36 Countries
- 103 Experts selected
- 26 PhDs
- Backgrounds:
 - Researchers (10)
 - Technical experts (12)
 - Professionals (26)
 - Regulations/Standards (19)
 - Smart Cities (23)



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Compendium of survey results on integrated digital solutions

Use Cases

Illustrated by success stories, this document presents the of cities, communities and municipalities experience participating in the U4SSC initiative in developing their smart city strategies, the governance of smart projects, and the principal role of a smart city platform (or set of key components that constitute it) in contributing to improving the lives of their citizens.

Responses from 10 cities to the questionnaire on: city profile, strategic approach, Technological architecture of urban platform, operational IT solutions for integrated city management, governance, economic sustainability, key factors and barriers to implementation, stakeholder's involvement.





Main report

This report provides a global perspective on how **city platforms** facilitate more efficient and effective **control** of public infrastructure and services, improve economic efficiencies, enable rapid **development of new or complex services** and play a critical role in the overall digital transformation of urban areas.





Digital Solutions for Integrated City Management & Use Cases

Working Group – Deliverable Structure

2. Common smart city 1. Smart city concept Miscellaneous technology challenges • Describing main challenges Foreword • Smart City Typology: Infra, Operation, Ecosystem, in SCP implementation. • Acknowledgements governance • Disclaimer • SDG and Standards • Executive Summary 4. The experience of cities 5. Key takeaways and conclusions • Geographic distribution • 22 cities • Governance • Europe • Asia & Pacific, Middle East & Africa • Economic Sustainability

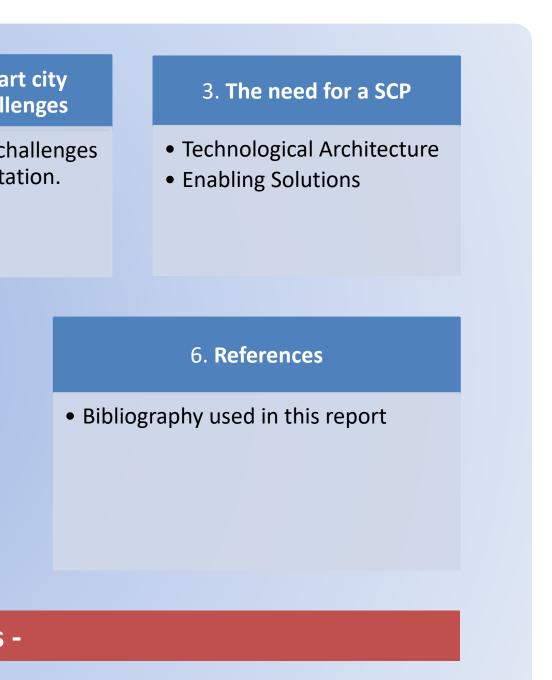
• Americas

• Common barriers

• Key success factors

Annex 1: Compendium - Use Cases -





Digital Solutions for Integrated City Management & Use Cases

3. The need for Smart City Platforms

A smart city platform (CP) is the answer to the need for an integrated city management. The following aspects are required of a CP:

• Interoperability, Performance, Scalability, Robustness and resilience, Security, Extensibility.

City platforms are mainly based on international and national standards (ITU-T Y.4201, ISO/IEC 24039, UNE 178104: 2017, DIN 91357-2017, FIWARE...). These standards have an architecture based on layers:

- Acquisition and Integration of data from information systems and IoT devices
- Data repository and information management
- Information processing and data analysis
- Interoperability and integration buses with external systems
- Vertical services
- Security management and support layer

City platform serves as a technological base for a multitude of enabling elements of the city's digital transformation.

• Citizenship and situational awareness dashboards of municipal managers, GeoPortal, City Apps, Open Data Portals...





Digital Solutions for Integrated City Management & Use Cases

5. Key takeaways and conclusions





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U4SSC website:

https://www.itu.int/go/u4ssc

Thank you!



