SmartCities and Health, Urban Planning, ...

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John Herring
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A Smart City should be described as one that…

- dramatically increases the pace at which it improves its **sustainability and resilience**, 
- by fundamentally improving
  - how it **engages society**, 
  - how it **applies collaborative leadership methods**, 
  - how it **works across DISCIPLINES and CITY SYSTEMS**, and
  - how it **uses data and integrated technologies**, 
- in order to **transform services and quality of life** to those in and involved with the city (residents, businesses, visitors)
Abstract Overview of a SmartCity System

Seamless Network

Security and Access Control

Users

Public  e-Government  Business  Other

Applications

User Apps  e-Gov Apps  Facilities Management  Other

Databases – Dynamic, Versioned, Distributed

Navigation  Planning  Facilities  Public Info  Other
ISO/TC 204 Intelligent transport systems

- Scope: Standardization of information, communication and control systems in the field of urban and rural surface transportation, including intermodal and multimodal aspects thereof, traveler information, traffic management, public transport, commercial transport, emergency services and commercial services in the intelligent transport systems (ITS) field.

- ISO / TC 204 is responsible for the overall system aspects and infrastructure aspects of intelligent transport systems (ITS), as well as the coordination of the overall ISO work programme in this field including the schedule for standards development, taking into account the work of existing international standardization bodies.
Smart City “Domains” already in OGC

- **System Design**
  - Architecture DWG
  - Security DWG

- **Data & Services**
  - Big Data DWG
  - Point Cloud DWG
  - Sensor Web Enablement DWG
  - Mobile Location Services DWG

- **Infrastructure**
  - Land & Infrastructure DWG
  - 3DIM DWG
  - Emergency & Disaster Management DWG
  - Energy & Utilities Health DWG
  - Law Enforcement & Public Safety DWG
  - Urban Planning DWG
SC applicable ISO TC 211 standards

- ISO 6709: Standard representation of geographic point location by coordinates
- ISO 19111: Spatial referencing by coordinates
- ISO 19111-2: Extension for parametric value
- ISO 19115-1: Metadata -- Part 1: Fundamentals
- ISO 19132: Location-based services -- Reference model
- ISO 19133: Location-based services -- Tracking and navigation
- ISO 19134: Location-based services -- Multimodal routing and navigation
- ISO 19141: Schema for moving features
- ISO 19147: Geographic information -- Transfer nodes
- ISO 19148: Linear referencing
- ISO 19152: Land Administration Domain Model (LADM)
- ISO 19153: Geospatial Digital Rights Management Reference Model