Building Interoperability into Smart City Solutions: Future Shock and Information Management

Presentation Abstract

Digitalization is infiltrating all city and municipal and citizen interactions, bit by bit (sorry). Fifty years of ICT have provided many legacy systems, and now 5G is raising expectations for a "tactile internet" of fast reaction times. Governments are expected to integrate older data into Cloud services as well as monitor and optimize mobility, waste management, energy, air pollution, social services and eHealth solutions ... each of which has different data storage assumptions, different protocols, different definitions for the same things (or vice versa) and usually different organisations for defining (de facto) standards. The ETSI ISG CIM (Context Information Management) group is proposing solutions to manage the flood of (incompatible) information and allow (cloud) applications to discover, publish and notify just the desired information to the end user (e.g. citizen, government official, data-analytics platform). The ETSI ISG CIM group has investigated a wide range of technologies, and is liaising with ETSI SmartM2M and oneM2M, as well as other SDOs.