

**Fifth SG13 Regional Workshop for Africa on  
"ITU-T Standardization Work on Future Networks: Towards a Better Future for Africa"  
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**Session 4: "Cross-domain data utilization via FIWARE as data-exchange platform"**

**Abstract:**

The presentation deals with cross-domain data utilization – enabling innovative services in different industry sectors - using FIWARE as data-exchange platform.

FIWARE is an ecosystem providing an open innovation platform with open specifications implemented with open source software. The FIWARE NGSI API allows to publish and discover the values of all kinds of attributes of all entities recorded in the platform. The FIWARE NGSI API has been at first specified in OMA and is now used as starting point in the new ETSI Industry Specification Group CIM (NEC is a founder of CIM) whose scope is to develop advanced standards for exchanging cross-domain information (such as APIs for context management, data publication platform, data model standardization).

NEC works to realize innovative services in various industry sectors by cross-domain utilization of data using FIWARE as data-exchange platform. As an example, NEC's Smart City solution CCOC (Cloud City Operation Centre) uses FIWARE for Smart City projects in different locations of the world. Cross domain data utilization is a key enabler of the human-centric super-smart society emphasized in the Japan Government's Science and Technology Strategy (Society 5.0).

The presentation at first introduces FIWARE and what can be achieved via FIWARE via some NEC examples. Then it addresses cross-domain data utilization via FIWARE describing rational and objectives for a cross-domain Context Information Layer as currently developed within ETSI ISG CIM. Finally, the Society 5.0 perspective of this work is highlighted.

NOTE – Some backup slides [not in scope of this presentation] provide updated information about some relevant ITU-T activities on Big Data.