

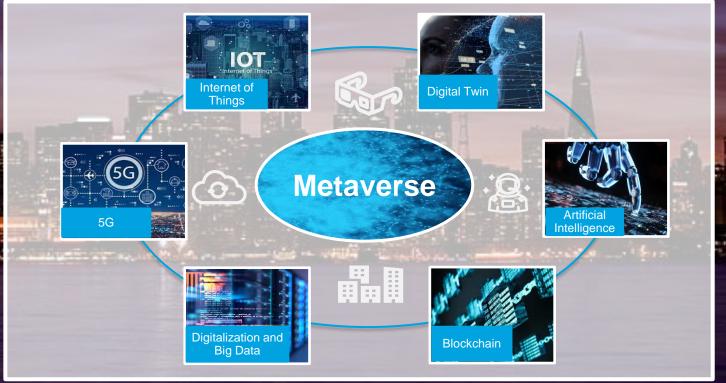
7th Multi-stakeholder Forum on Science, Technology and Innovation for the Sustainable Development Goals (STI Forum)

Cristina Bueti,
ITU Focal Point on Environment and
Smart Sustainable Cities & Communities



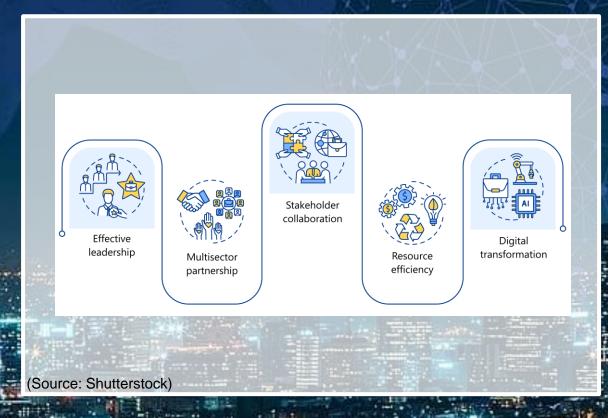
Science, Technology and Innovation to Support Cities Facing Challenges







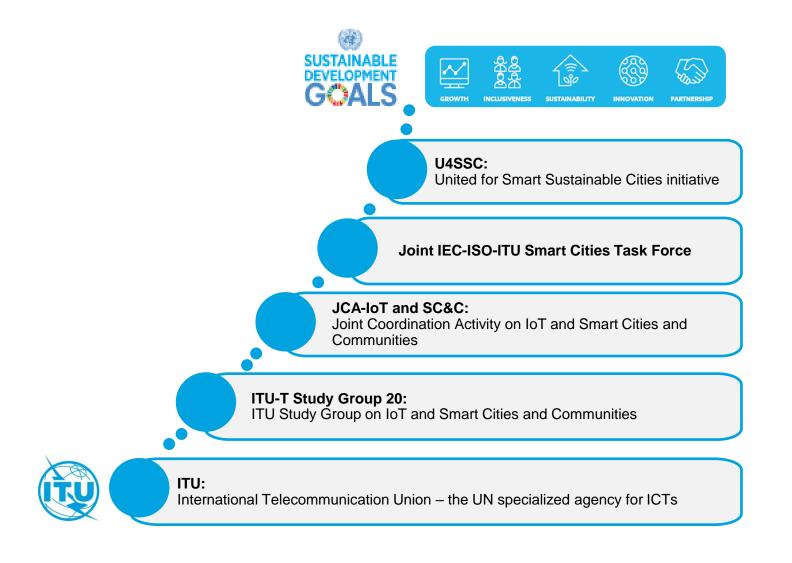
Digital Transformation for People-Centred Cities















 Interoperability and interworking of IoT and SC&C applications and services

Q1/20

· Requirements, capabilities and architectural frameworks across verticals enhanced by emerging DT

Q2/20

 IoT and SC&C architectures. protocols and QoS/QoE

Q3/20



Data analytics. sharing, processing and management, including big data aspects, of IoT and SC&C

Q4/20

Study of emerging digital technologies. terminology and definitions

Q5/20

Security, privacy, trust and identification for IoT and SC&C

Q6/20

Evaluation and assessment of Smart Cities and Communities



Regional Groups







Americas Region



Arab Region



EECAT Region

Joint Coordination Activity & New Focus Group



Joint Coordination Activity on Internet of Things and Smart Cities and Communities (JCA-IoT and SC&C)



Focus group on Artificial Intelligence (AI) and Internet of Things (IoT) for Digital Agriculture (FG-AI4A)







Requirements and use cases

Recommendation ITU-T Y.4208: "IoT requirements for support of edge computing"

Recommendation ITU-T Y.4211: "Accessibility requirements for smart public transportation services"

Recommendation ITU-T Y.4214: "Requirements of IoT-based civil engineering infrastructure health monitoring system"



Infrastructure and architecture

Recommendation ITU-T Y.4470: "Reference architecture of artificial intelligence service exposure for smart sustainable cities"

Recommendation ITU-T Y.4480: "Low power protocol for wide area wireless networks"

Recommendation ITU-T Y.4500.1: "oneM2M-Functional Architecture"



Interoperability

Recommendation ITU-T Y.4200: "Requirements for interoperability of smart city platforms"

Recommendation ITU-T Y.4201: "High-level requirements and reference framework of smart city platform"

Recommendation ITU-T Y.4805: "Identifier service requirements for the interoperability of Smart City applications"



Data management

Recommendation ITU-T Y. 4472: "Open data application programming interface (APIs) for IoT data in smart cities and communities"

Recommendation ITU-T Y.4461: "Framework of open data in smart cities"

Recommendation ITU-T Y.4464: "Framework of blockchain of things as decentralized service platform"

Recommendation ITU-T Y.4475: "Lightweight intelligent software framework for IoT devices"



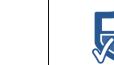
Assessment

Recommendation ITU-T Y.4903: "Key performance indicators for smart sustainable cities to assess the achievement of sustainable development goals"

Recommendation ITU-T Y.4904: "Smart sustainable cities maturity model"

Recommendation ITU-T Y.4905: "Smart sustainable city impact assessment"

Recommendation ITU-T Y.4906: "Assessment framework for digital transformation of sectors in smart cities"



Identification and security

Recommendation ITU-T Y.4807: "Agility by design for Telecommunications/ICT Systems Security used in the Internet of Things"

Recommendation ITU-T Y.4808: "Digital entity architecture framework to combat counterfeiting in IoT"

Recommendation ITU-T Y.4809: "Unified IoT Identifiers for intelligent transport systems"



United 4 Smart Sustainable Cities





City Platforms



Artificial Intelligence in Cities



Building Urban Economic Resilience at City Level



Innovative Financing for Smart Sustainable Cities Projects



Procurement for Smart Sustainable Cities



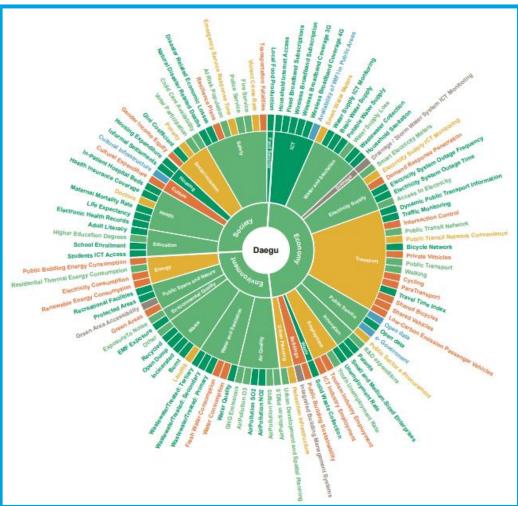
Enabling People-Centred Cities through Digital Transformation



















Accessibility and Digital

Inclusion

Emergency Management



Developing a Digital

Transformation Strategy







Data Processing and Management







Smart Energy Management



Smart Water Management





Digital Transformation for People-Oriented Cities and Communities



https://itu.int/go/dt4cc



Develop international standards to support Digital Transformation for Cities



Make Tangible
Progress Towards
Smartness and
Sustainability



Resources
Developed by ITU-T
SG20 and U4SSC to
address
cities'challenges





