



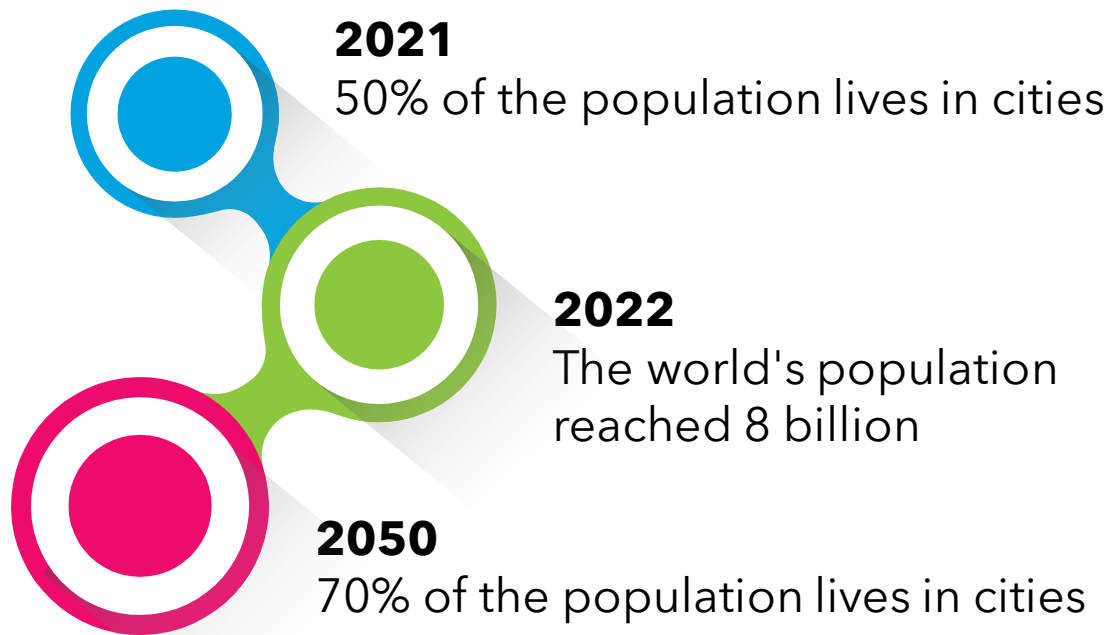
Empowering Digital Transformation in cities

Accelerating Smart Sustainable Cities

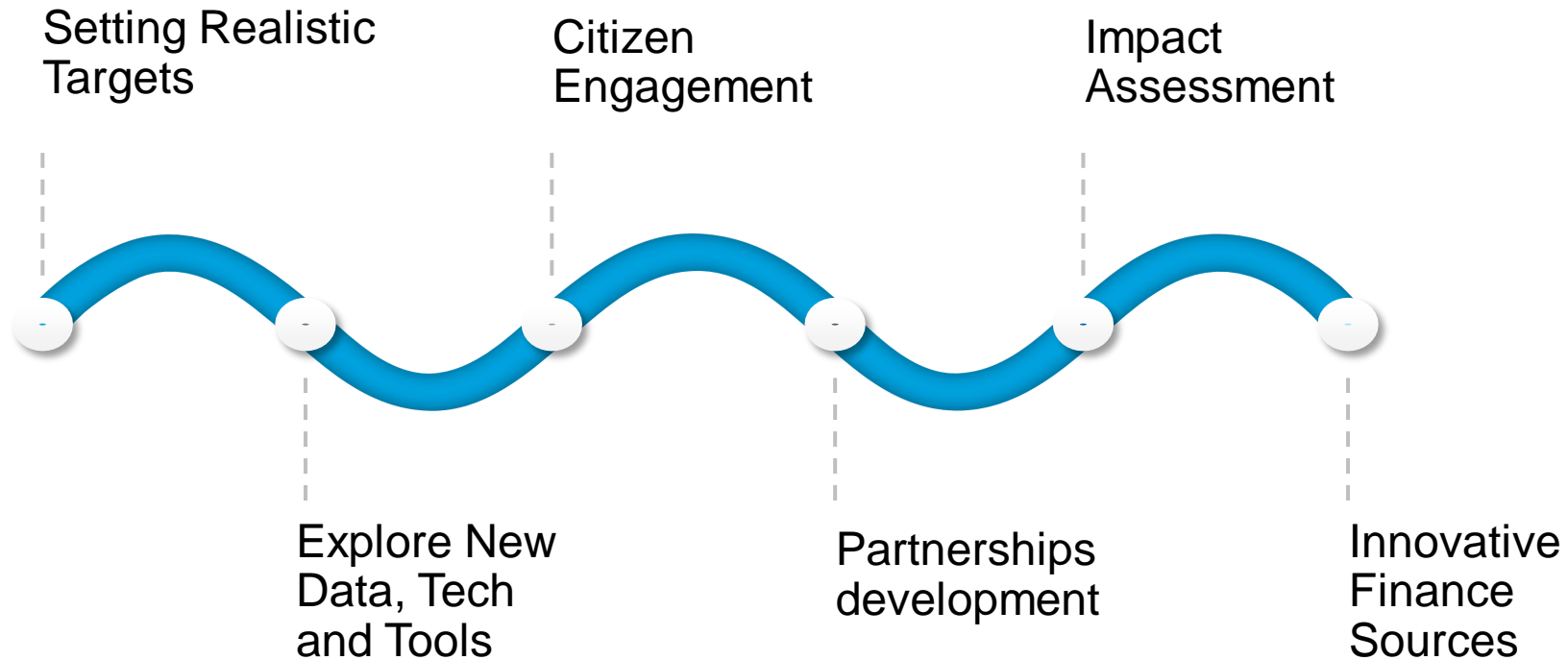


Cristina Bueti
Focal Point on Smart Sustainable Cities, ITU

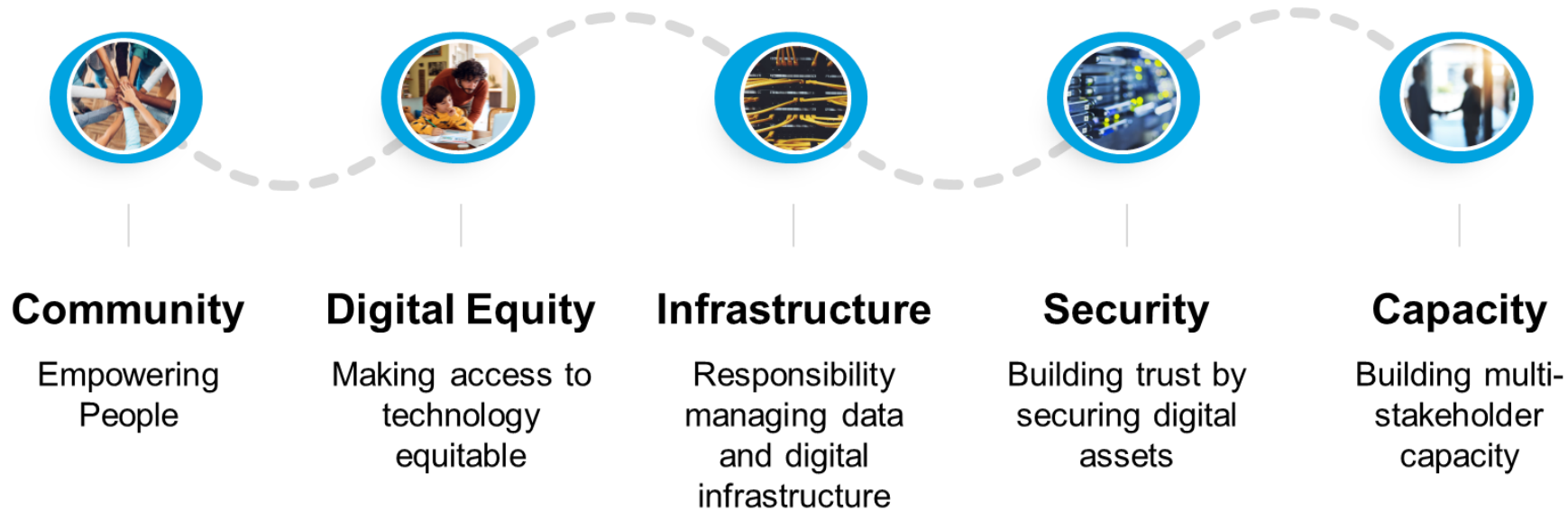
Growth in Cities Worldwide



Digital Transformation is a Multi Year Journey



Towards people-centred cities and communities



ITU is Global



The [International Telecommunication Union \(ITU\)](#) is the United Nations specialized agency for information and communication technologies (ICTs)



193

Member
states

+700

Companies/
organizations

+170

Academia
members



How ITU-T Supports Digital Transformation



**Internet of Things and
its Applications**



**Smart Cities and
Communities**



IoT Identification



**Digital health related
to IoT and SSC**



Africa Region



Americas
Region



Arab Region



EECAT
Region



Asia and
Pacific Region

ITU Standards



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.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"

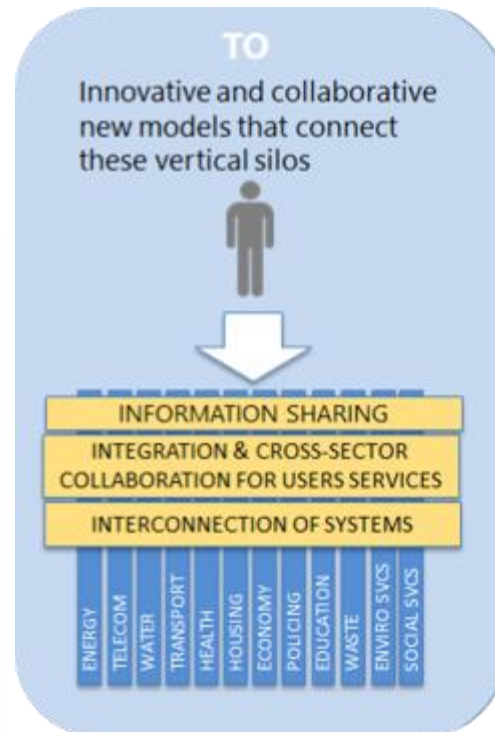
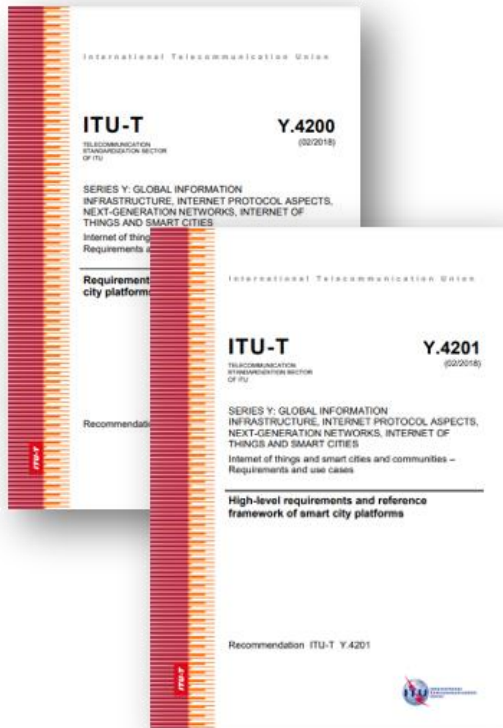
Recommendation ITU-T Y.4808: "Digital entity architecture framework to combat counterfeiting in IoT"

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



Check out
more
Recommendations

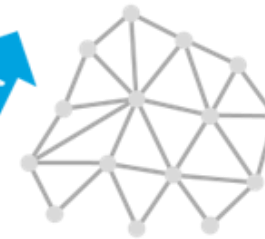
A Smart Sustainable City is an Interoperable City



"Siloed" platforms and Pilots initiatives




COLLABORATION



Collaboration, open ecosystem, City-wide deployment

Toolkit on Digital Transformation for Cities and Communities

 Digital Transformation of Cities and Communities	 Developing a Digital Transformation Strategy	 Data Processing and Management	 Connectivity, Digital Divide and Digital Inclusion
 Accessibility and Digital Inclusion	 Reduce the Environmental Impact of Cities	 Smart Energy Management	 Smart Water Management
 Emergency Management	 4IR and Smart Manufacturing	 Smart Sustainable City Governance	



United for Smart Sustainable Cities



U4SSC serves as the global platform to advocate for public policy and to encourage the use of ICTs to facilitate and ease the transition to smart sustainable cities.



A laptop with a bar chart and gears on the screen. City Platforms	A microscope and gears. Building Urban Economic Resilience at City Level	A pie chart with dollar signs and a bar chart. Innovative Financing for Smart Sustainable Cities Projects
A brain with a circuit and 'AI' text. Artificial Intelligence in Cities	A hand holding a dollar sign and a document. Procurement for Smart Sustainable Cities	A group of people silhouettes with a globe below them. Enabling People-Centred Cities through Digital Transformation



Key U4SSC Resources and Publications



U4SSC Key Performance Indicators



What's Next?

The future of our cities and communities depends on people-centric digital transformation and harnessing frontier technologies.

Internet of Things

Sensors, actuators and smart devices for better traffic management



Metaverse

Virtual government hall to improve the efficiency of the services



5G

Digital Twin

Disaster risk planning to increase local resilience



Artificial Intelligence

Enhance the safety of power grids and improve performance management



ITU's New Focus Group on metaverse

A unique collaboration platform to shape an open and interoperable metaverse



TASK GROUP

Collaboration



WORKING GROUP 1

General



WORKING GROUP 2

Applications & Services



WORKING GROUP 3

Architecture & Infrastructure



WORKING GROUP 4

Virtual/Real World Integration



WORKING GROUP 5

Interoperability



WORKING GROUP 6

Security, Data & Personally identifiable information (PII) Protection



WORKING GROUP 7

Economic, Regulatory & Competition Aspects



WORKING GROUP 8

Sustainability, Accessibility & Inclusion



Thank you!



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u4ssc@itu.int



Website

www.itu.int/cities



*Check out our new
Digital Transformation Brochure!*

