



WORLD TELECOMMUNICATION
STANDARDIZATION ASSEMBLY



ITUWTSA

NEW DELHI**2024**

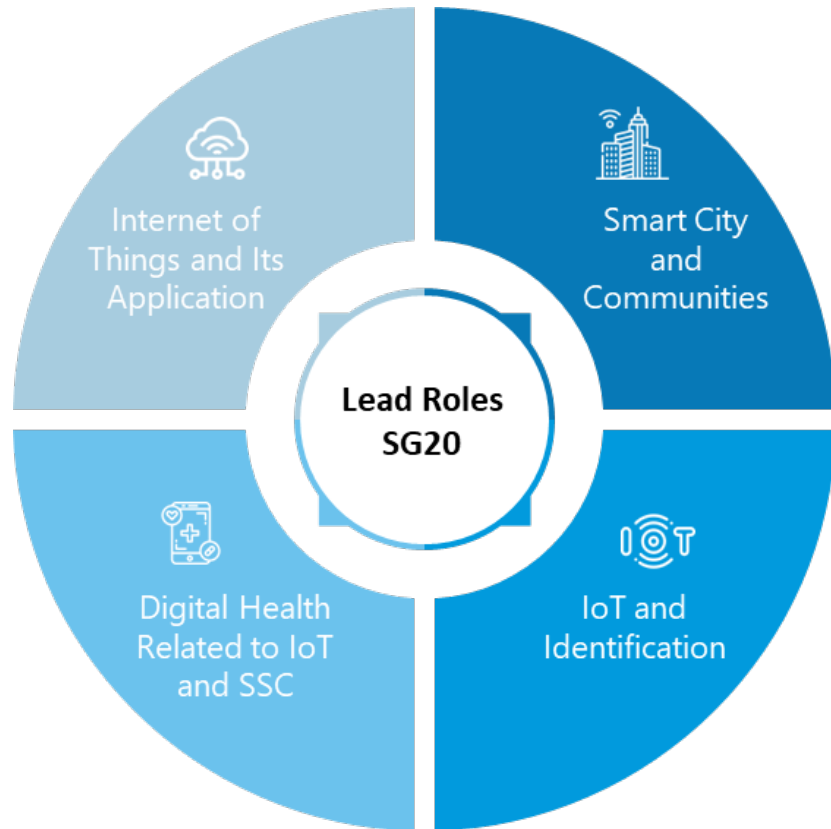
15-24 October 2024
New Delhi, India

Overview of ITU-T Study Group 20 during the Study Period 2022-2024

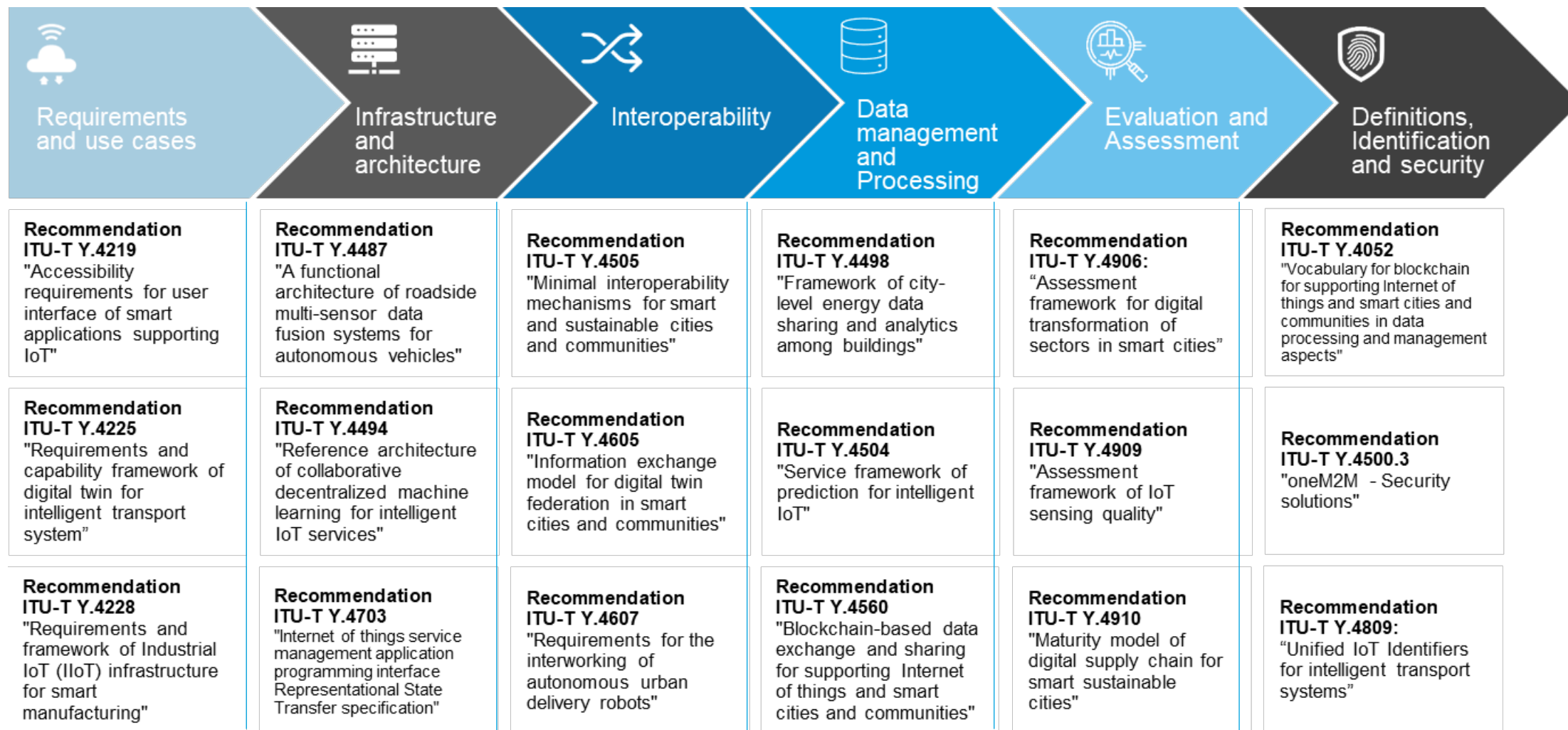
Hyoung Jun Kim
Chair, ITU-T Study Group 20
October 2024



ITU-T Study Group 20: IoT, Smart Cities & Communities







ITU-T SG20: Key ITU-T Recommendations

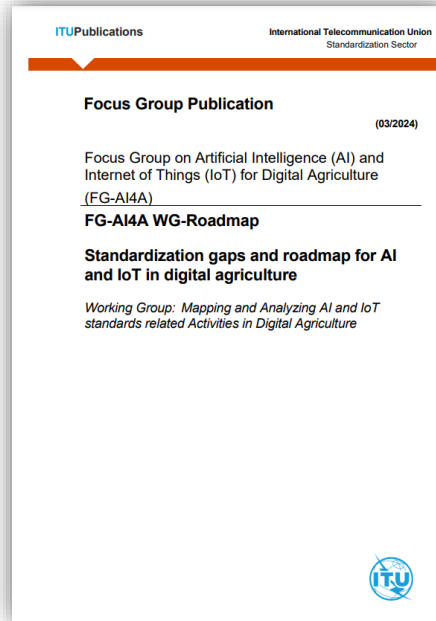


ITU-T SG20: Management Team

Chair:	Mr Hyoung Jun Kim	Korea (Rep. of)
Vice-Chairs:	Mr Ali Abbassene	Algeria
	Mr Muath Alrumayh	Saudi Arabia
	Mr Fabio Bigi	Italy
	Mr Héctor Mario Carril	Argentina
	Mr Ramy Ahmed Fathy	Egypt
	Mr Harinderpal Singh Grewal	Singapore
	Ms Shane He	Nokia Corporation, Finland)
	Mr Achime Malick Ndiaye	Senegal
	Mr Ziqin Sang	China
	Mr Toru Yamada	NEC Corporation, Japan
TSB:	Ms Cristina Bueti	ITU
	Ms Chiara Co	ITU

ITU-T SG20: Main Achievements and results

	4	Physical Meetings
	50+	Recommendations
	6	Supplements
	6	Technical Papers



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

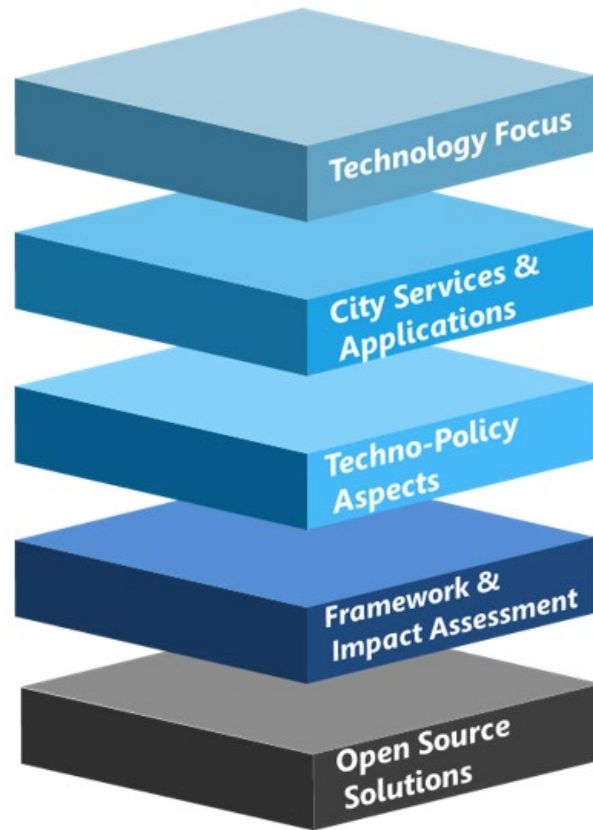
10 Meetings & 5 Deliverables

- FG-AI4A "Glossary - Artificial Intelligence (AI) and Internet of Things (IoT) for Digital Agriculture"
- FG-AI4A Technical Report on "Ethical Legal, and Regulatory Considerations relating to the use of AI for agriculture": A European Perspective
- FG-AI4A Technical Report on "Data Modelling for digital agriculture"
- FG-AI4A Technical Report on "Use Cases for AI and IoT for Digital Agriculture"
- FG-AI4A Technical Report on "Standardization gaps and roadmap for AI and IoT in digital agriculture"

Correspondence Group for Artificial intelligence of Things Activities (CG-AIoT)

- Technical Paper ITU-T YSTP.AIoT "Challenges of and Guidelines to Standardization on Artificial Intelligence of Things"

Accelerating Digital Transformation for Smart Sustainable Cities & Communities



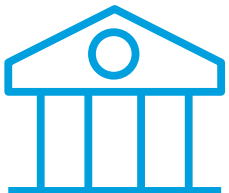
Developing standards for IoT, digital twin, metaverse, AI/ML, & other emerging technologies to enhance digital services through innovation.

Carrying out research and leveraging the development of applications across verticals like education, health, energy, manufacturing, transportation, and more.

Addressing system requirements, infrastructure, interoperability, security and accessibility for smart cities.

Developing frameworks and methodologies for performance measurement, impact assessment, and evaluation of cities and digital services.

Promoting collaboration and innovation through open-source technologies to enable adaptable and cost-effective smart city solutions.



Collaboration



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

- Ongoing updates to the IoT and SSC&C standards roadmap
- JCA-IoT and SC&C held 4 meetings



Joint IEC-ISO-ITU Smart Cities Task Force (J-SCTF)

- ITU, ISO and IEC have established a Joint Smart Cities Task Force to coordinate international standardization for smart cities.



Collaboration with industry & fora



United for Smart Sustainable Cities (U4SSC)

- A global initiative supported by 19 UN entities.
- 9 U4SSC Thematic Groups including on AI in cities, Foresight for cities, DPI and Digital Transformation
- Published 13 Deliverables
- 200+ cities worldwide have implemented the U4SSC KPIs based on Recommendation ITU-T Y.4903

Global Initiative on Virtual Worlds and CitiVerse



UNICC



Together with: Digital Dubai and UNICC

Launched on 14 June 2024 during the first UN Virtual Worlds Day

The Initiative serves as a global platform that aims at fostering open, interoperable and innovative virtual worlds that can be used safely and with confidence by people, businesses and public services.

Pillar 1 - Bringing Virtual Worlds to Life

- Strategic Guidance
- Security and Trust
- Digital Inclusion and Accessibility
- Methodology for Financing
- Evaluation and Assessment
- Awareness Building

Pillar 2 - Connecting Cities with the Virtual and Real Worlds

- Emerging Technologies
- Use-case Identification
- Sandbox Experiment Facility
- Virtual Worlds Toolkit
- Annual Training

Pillar 3 - Tunneling the CitiVerse

- Annual Assembly
- CitiVerse Challenge
- Network of Cities and CitiVerse for SDGs
- Talent Grants Programme for Developing Countries

Building Future-Ready, People-Centred Smart Cities



Digital Transformation Dialogues

Organized:

- 34 Webinars
- 4 Fireside Chats
- 7 Ask the Expert Sessions



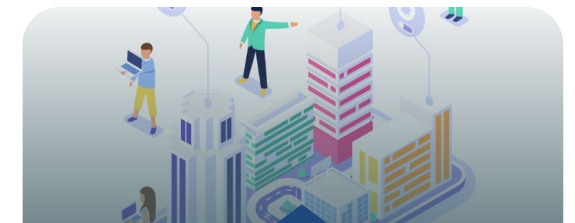
Digital Transformation Resource Hub

- Provides a comprehensive resource list on smart sustainable cities, AI, IoT, blockchain, digital twins, the metaverse, and digital transformation trends.



Digital Transformation and Cities Digest

- 9 Digests issued in 2023-2024 sharing updates on ITU's work in digital transformation, smart sustainable cities, the metaverse and new publications.



Toolkit on Digital Transformation for People-Oriented Cities and Communities

- Consists of 14 modules
- Developed by ITU in collaboration with other 14 UN entities

ITU-T SG20: Conclusion



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"Thank you to all participants and contributors for your input. Together, through the standards we develop, we can shape people-centred cities, improve lives, and build a more connected, sustainable future."

- Hyoung Jun Kim, ITU-T SG20 Chair



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Thank you