



Harnessing the metaverse and virtual worlds for global impact

How the ITU is advancing the metaverse

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Focal point for metaverse and
smart sustainable cities

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**Imagine a world where reality is redefined,
where possibilities are infinite and
connections boundless**



The metaverse is...

“

An integrative ecosystem of virtual worlds offering immersive experiences to users, that modify pre-existing and create new value from economic, environmental, social and cultural perspectives.

ITU Focus Group on metaverse



The metaverse - no longer a game but a game changer

\$5T in value will be generated by the metaverse by 2030.

61% of people look forward to interacting with family and friends in the metaverse

The opportunities are endless for the metaverse



Positively transforming the real world, one virtual step at a time

Sustainable Digital Transformation



The metaverse can make physical activities virtual, thereby minimizing travel and resource consumption.

Smarter Insights



Cities use metaverse technologies like AR, digital twins, and blockchain from tourism to resource management

Developing Skills



The metaverse facilitates skill acquisition through virtualization, training simulations, and interactive experiences.

Fostering Collaboration



The metaverse can enable real-world impact by connecting stakeholders across the world



Unleashing data insights beyond reality

As people are spending more and more time living virtually, municipal authorities around the world are harnessing the metaverse and virtual worlds for smarter data-driven insights.



The Republic of Korea aims to create its metaverse ecosystem.
Metaverse Seoul:
virtual municipal world



Japan is preparing for the spread of metaverse in cities and communities.
Shibuya Ward
Certified Virtual
Shibuya



Dubai aims to be one of the world's top 10 metaverse economies as well as a global hub for the metaverse



How the ITU is supporting the metaverse

Research

ITU-T Focus Group on metaverse

Global platform to accelerate standardization with 500+ experts, 30+ deliverables

Innovation

UN Metaverse Think-a-thon

Revolutionizing virtual worlds. ITU in collaboration with UNIC, FAO and IAEA

Collaboration

UN Virtual Worlds Day

Harnessing the metaverse for the SDGs. ITU in collaboration with 17 UN Agencies.

Awareness

Digital Transformation Dialogues

Disseminating knowledge and raising awareness on key topics.



ITU-T Focus Group on metaverse

The ITU Focus Group on metaverse was established under TSAG on 16 December 2022. It provides a platform for the necessary pre-standardization work.




ITU-T FG-MV Meetings

500+ Experts involved

Riyadh (ARB Region)
Shanghai (AP Region)
Geneva (EUR Region)
Queretaro (AMS Region)

The graphic features a dark blue background with a stylized globe and a network of white lines. A small blue circle with a white arrow is in the top right corner.



ITU-T FG-MV Deliverables

30+ Deliverables

The graphic features a dark blue background with a stylized globe and a network of white lines. A small blue circle with a white arrow is in the top right corner. Below the text, two ITU Publications are shown: ITU Focus Group Technical Specification (FGMV-19) and ITU Focus Group Technical Report (FGMV-07).

ITU Publications
ITU Focus Group Technical Specification (FGMV-19)
ITU Focus Group on metaverse (FG-MV)
FGMV-19
Service scenarios and high-level requirements for metaverse cross-platform interoperability
Working Group 5: Interoperability

ITU Publications
ITU Focus Group Technical Report (FGMV-07)
ITU Focus Group on metaverse (FG-MV)
FGMV-07
Policy and regulation opportunities and challenges in the metaverse
Working Group 7: Economic, regulatory & competition aspects



UN Virtual Worlds Day

*Harnessing the metaverse to advance
the Sustainable Development Goals (SDGs)*

14 June 2024 – Geneva, Switzerland



Exhibition

Metaverse exhibition

Think-a-Thon

Think-a-Thon to advance the SDGs

**5th ITU Forum on Integrating
virtual and physical worlds in
the metaverse with digital
twin**

ITU Focus Group on metaverse

Global platform to accelerate
standardization



Think-a-Thon as part of the UN Virtual Worlds Day

Co-organized by



IAEA

International Atomic Energy Agency

Topic:
Virtual Worlds
Revolutionizing
Smart Sustainable
Cities

Subtopics:

- Virtual Education Platforms
- Disaster Preparedness and Response
- Conflict Resolution Simulations

Timeline:

- Launched on 5 March 2024
- Award Ceremony on 14 June 2024



Supporting all aspects of smart sustainable cities and the metaverse

ITU-T Study Group 20



Sets International
Standards for IoT
and Smart
Sustainable Cities



How can the metaverse support the SDGs?

In the metaverse, pixels become pathways to progress, avatars advocate for change, and virtual worlds unite us toward a smart sustainable future.





Thank you!



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Driving innovation for virtual worlds and cities

Global Initiative on Industrial metaverse

Together with: To be launched on 14 June 2024 during the first UN Virtual Worlds Day



Global Initiative on Citiverse and Virtual Worlds

Together with: Digital Dubai
To be launched on 14 June 2024 during the first UN Virtual Worlds Day

دبي الرقمية
DIGITAL DUBAI

