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Brilliant Innovation, Broken Connections



Standards: Turning Vision Into Trust

Trust by design:

Interoperable, secure, accessible, measurable, future ready.











Interoperability

Security, privacy & trust

Accessibility & inclusion

Sustainability

Resilience & future readiness

How International Telecommunication Union Can Help



ITU: United Nations specialized agency for digital technologies



194

Member States



companies, universities, research institutes and international organisations





From Exploration to Standardization

From December 2022 to June 2024, ITU Focus Group on metaverse delivered 52 reports.

- Capabilities and requirements of generative AI in metaverse applications and services
- The reference framework of industrial metaverse
- High-level interoperability architecture for cross-platform metaverse
- Cyber risks, threats, and harms in the metaverse
- Responsible Use of Al for **Child Protection** in the metaverse
- Policy and regulation opportunities and challenges in the metaverse
- Economic Value Creation and Competition in metaverse
- Requirements of accessible products and services in the metaverse
- Methodology on assessment of GHG emissions of metaverse
- And more...



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ITU-T Study Group 20 Standards

"IoT, digital twins and smart sustainable cities and communities"

200+ international standards — freely available to all!



Internet of things and its application



Smart sustainable cities, digital services, energy management & digital twins



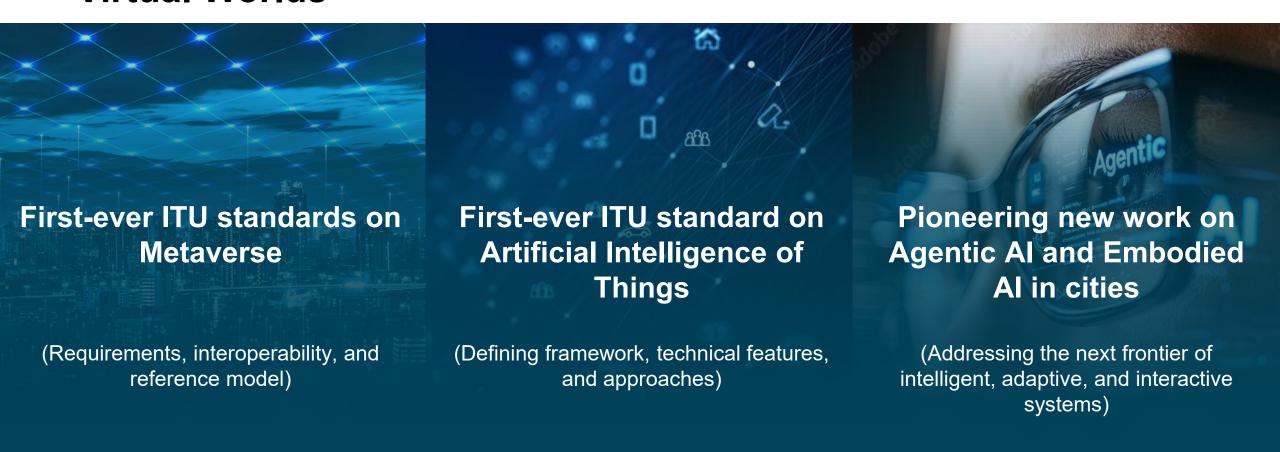
Digital Health
Related to IoT and
smart sustainable
cities



Citiverse, virtual worlds & Al

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Shaping the Standards Landscape for AI-Powered Virtual Worlds





Discovering the Citiverse

itu.int/metaverse/virtual-worlds





From Standards to Real-World Impact

Join a Growing Coalition of 60+ Partners:

Global Initiative on Virtual Worlds and AI – Discovering the Citiverse

Founding partners:









Ministry of Internal Affairs and Communications



Supported by:



































































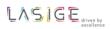




















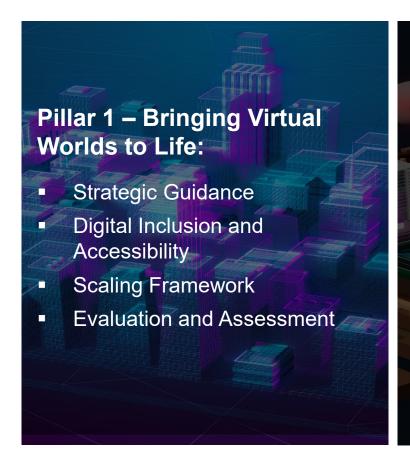




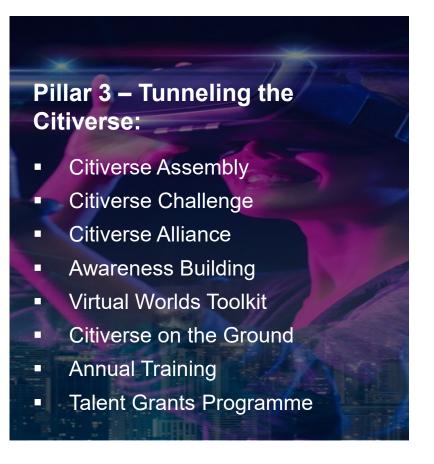


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3 Key Pillars of Action



Pillar 2 - Connecting Cities with the Virtual and Real Worlds: **Emerging Technologies** Use-case Identification Security and Trust Interoperable Citiverse Sandbox Experiment Facility



tu.int/metaverse/virtual-worlds/

Deliverable in the Spotlight:

Citiverse Use Case Taxonomy



Shaping the Future Together

Be part of the 1st Citiverse

Assembly

(3 November 2025, Valencia,

Spain)

1st UN Citiverse Challenge Citiverse: **Designing digital** public infrastructure of future cities

Student Category

Startup Category



Co-organized by:















































Next Edition:

11-12 May 2026, Geneva, Switzerland

itu.int/un-virtual-worlds-day/



