

Metaverse is coming – are you ready?

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Have you ever experienced the metaverse?

- Yes, I have explored.
- No, but I have heard about the concept of the metaverse.
- I'm not sure what the metaverse is.



Metaverse commonly refers to a future persistent and interconnected virtual environment in which social and economic elements mirror reality. Users are expected to have the ability to interact with one another in the metaverse simultaneously across devices and immersive technologies, while engaging with digital assets and property.

How to enter the metaverse?



Virtual reality (VR)



Augmented reality (AR)

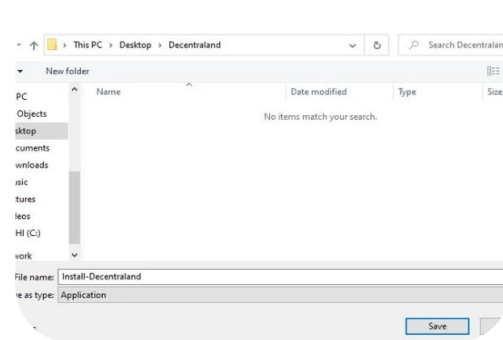


PC/Tablet/Phone

Exploring the metaverse



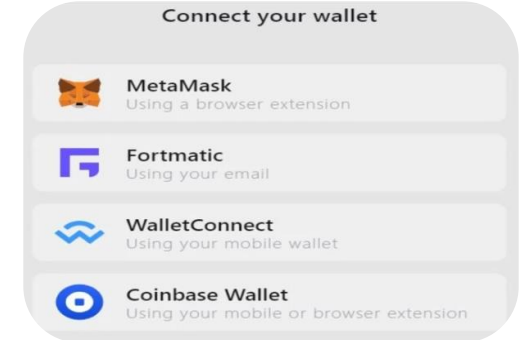
Step 1: Go to the official metaverse platform that you wish to join.



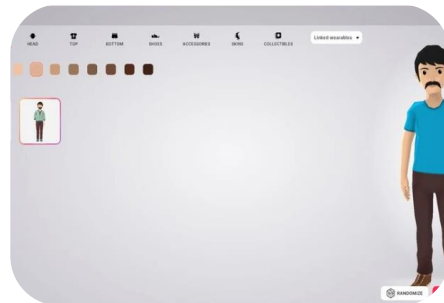
Step 2: Choose your access type to the Decentraland metaverse.



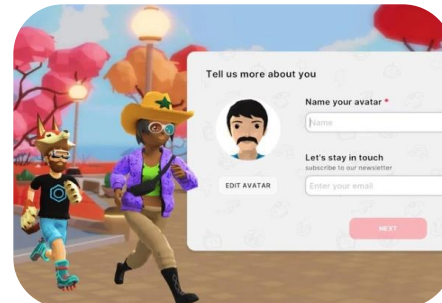
Step 3: Continue as a guest, or connect your crypto wallet to Decentraland.



Step 4: if you want to save your data, connect your Metamask wallet with the Decentraland metaverse.



Step 5: Chose your avatar – customize your avatars accordingly



Step 6: Provide a name and click “next”.



Step 7: You are now ready to explore various virtual towns in the Decentraland metaverse!

As a student...

Stanford University launches its class in metaverse

- Connecting and learning virtually
- Fostering an engaging classroom experience
- Building courses around learning by doing

263 students spent over 200,000 shared minutes together in the metaverse



As a future lawyer, judge...

Colombia court held a hearing in the metaverse

- **Positive feedback**
 - A neutral space for all parties
 - Free exchange of information
 - Help conceal the identity of protected witnesses
 - ...
- **Concerns**
 - Access to hardware and equipment
 - User privacy
 - ...



If you would like to become a doctor...

Medical education in the metaverse

- Simulations of surgeries in a risk-free environment
- Hands-on practice of complex procedures
- Collaborative learning with peers and guidance from professionals

Healthcare in the metaverse

- Telemedicine consultations in virtual environments
- Remote examinations and treatment discussions
- Virtual procedures and surgeries
- Access to medical expertise regardless of locations



Hospital in São Paulo performs first metaverse surgery

As a citizen...

Metaverse Seoul

- **Freedom:**
 - Public services accessible 24/7 all year round
 - Virtual mayor's office
 - Citizen participation with open-source tools
- **Inclusion:**
 - Interacting as avatars without barriers or discrimination
 - Support for multiple languages
- **Connection:**
 - Virtual consultations with healthcare professionals
 - Filing civil complaints via chat
 - ...



Numerous challenges need to be overcome to safeguard “me”



Interoperability



Accessibility



Sustainability



Regulation



Competition



**Virtual & Physical
integration**



Technology R&D



Intellectual property



Cybersecurity



Digital Identity



Privacy



Trust



**Dis/mis
information**



**Child online
protection**



Sexual assault



ITU's activities on metaverse

Shaping the metaverse



ITU Focus Group on metaverse (FG-MV)

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 & PII Protection



WORKING GROUP 7

Economic, Regulatory & Competition Aspects



WORKING GROUP 8

Sustainability, Accessibility & Inclusion

ITU-UNWTO

Executive briefing on metaverse

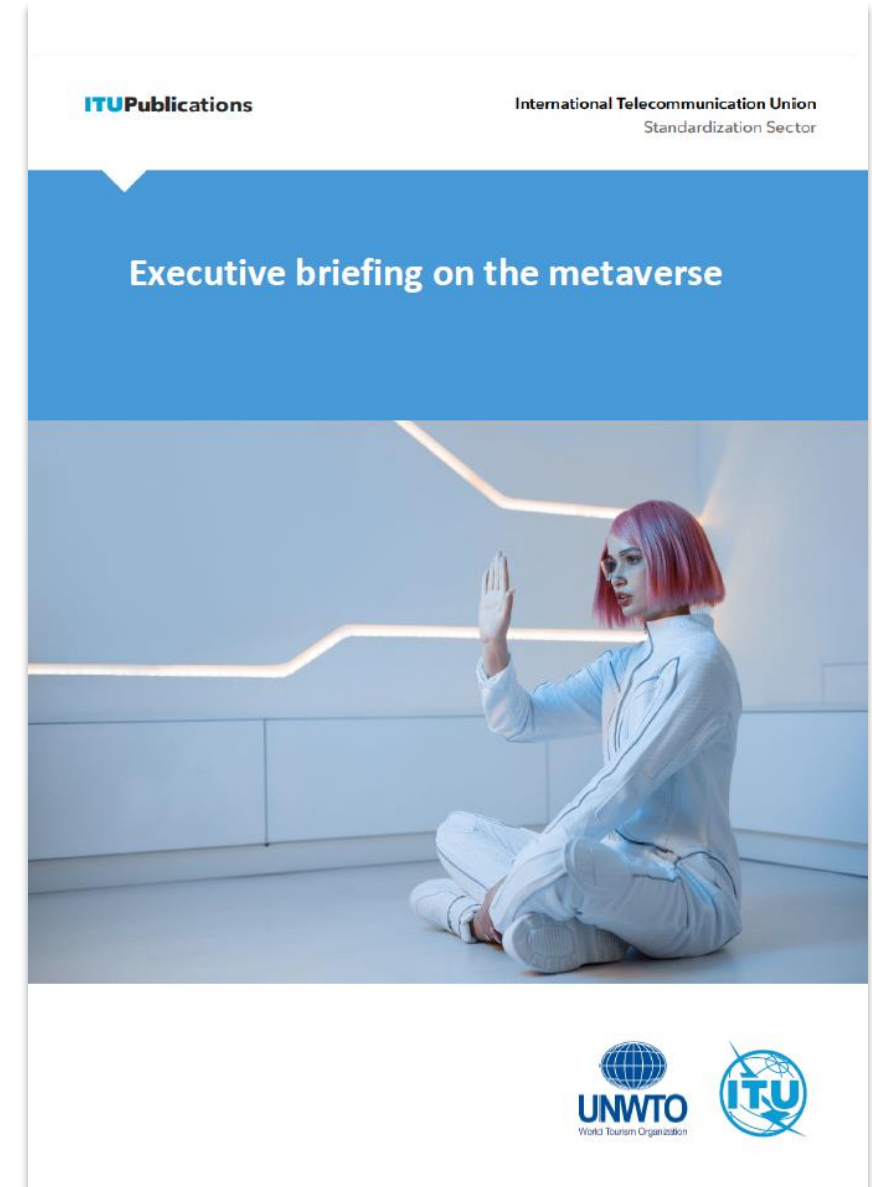
Contributed and reviewed by more than 40 experts from Africa, Asia, Americas, Europe with the background in industry, government, academia, and UN agencies

A series of executive briefings will be developed in 2023

- Regulation in the metaverse
- Metaverse and SDGs
- ...

To download the executive briefing, please visit:

www.itu.int/metaverse





Thank you!



Email

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Website

www.itu.int/metaverse

Imagining...

- **International standards**
 - Replaying how international standards was discussed and agreed
 - Experiencing how do cities and industries around the world implement international standards
- **Smart cities**
 - How do digital technologies impact cities and communities?
 - What will the future cities look like?

