KDDI's Initiatives toward Metaverses and Issues related to Design

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Agenda

- 1. What is Metaverse?
- 2. KDDI's Initiatives ~ Real City-linked Metaverse
- 3. Virtualcity Guidelines and Issues related to Design



Components of Metaverse

"Metaverse"
= "SNS-based online games"
x "Web3 (item ownership and user-centered economic activities)"

	Before Metaverse	Pre-Metaverse	Metaverse
a virtual environment composed of three-dimensional "space"	Υ	Y	Υ
The existence of a manipulable alter ego (avatar) and the ability to operate in a virtual environment using the avatar	Y	Y	Υ
Real-time Interactivity	Υ	Υ	Υ
Permanent accessibility from multiple devices	N	Υ	Υ
Ability to connect simultaneously and to share a virtual environment by an extremely large number of people	N	Y	Υ
Interoperability with other virtual environments	N	N	Y
The existence of an autonomous economic zone within a virtual environment	N	N	Y

KDDI's Initiatives ~ Real City-linked Metaverse **All company names and product names shown are trademarks or registered trademarks of their respective companies.

New city development utilizing real city-linked metaverse



- Real city-linked metaverse (= virtualcity, au version metaverse) is a metaverse in which real and virtual worlds are fused centering on the real city. It aims to expand the real world using the Metaverse.
 - KDDI, together with local governments and urban stakeholders, aims to create new city development where real cities and virtual spaces are linked and developed together.

"Virtual Shibuya"

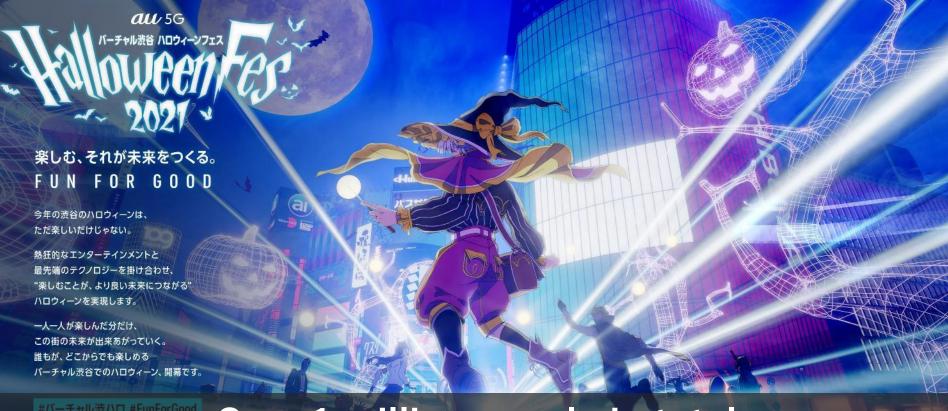
Shibuya Ward-official distribution platform, the first municipality-official virtual business in Japan, launched in May 2020. KDDI builds a space on the cluster. Available in platform-on-platform format.

The most distinctive feature of this virtual space is that it is not planned and operated by a single metaverse operator, but is a virtual space in which <u>multiple stakeholders related to Shibuya cooperate</u> and are linked to real cities.



Range of Motion >
 Expanded to the area in front of MODI since April 2021





#バーチャル渋ハロ #FunForGood 10.16 Sat - 10.31 Sun

Over 1 million people in total have experienced it





協力パートナー















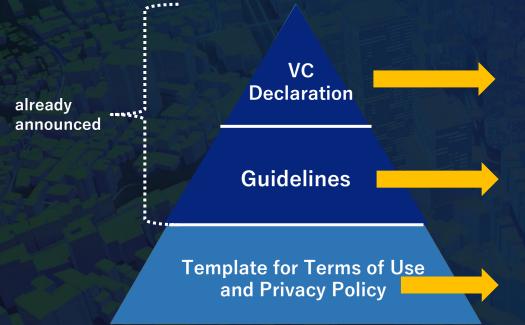
Virtualcity Guidelines and Issues related to Design

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Activities of the Virtualcity Consortium

- As the metaverse develops, it is necessary to clarify the issues to be addressed and discussion points.
- "Declaration of Virtualcity" and "Virtualcity Guidelines ver. 1" were announced.



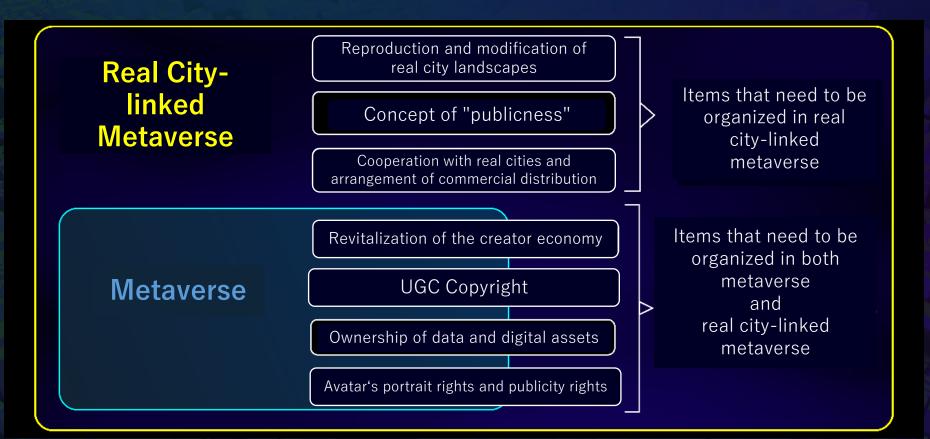
Document that summarizes the Virtualcity Consortium's vision for the existence of a "real city-linked metaverse" and the guidelines that it considers important

Guidelines for organizing ideas and raising issues for establishing and operating a real city-linked metaverse based on the Virtualcity Declaration

Templates for Terms of Use/Privacy Policy available on each city's platform based on the guidelines.

Templates will be announced in the future.

Key Topics for Virtualcity Guidelines



Issues related to design in the (urban city-linked) metaverse

- Reproduction of urban landscapes, buildings, signboards, posters, etc.
 - Most cases are subject to the limitation of rights under the Copyright Act, while some cases require caution.
 - Residents' consent is not mandatory under current law, but it is important to build relationships with local governments and community groups.
- UGC (User Generated Content) Rights
 - In principle, copyrights of avatars and other user creations belong to their creators.
 - When promoting n-th creation, it is important to establish mechanisms such as open licensing.
- Content that imitates the design of real products
 - Production and distribution of content that imitates the design of real products, such as virtual sneakers

Tomorrow, Together