

MIC-sponsored event at Expo 2025 Osaka, Kansai,
“Beyond 5G ready showcase”

Beyond 5G ready showcase

February 2025
Telecommunications Bureau,
Ministry of Internal Affairs and Communications



Objective and Concept

- To spread information to the world on Japan's Beyond 5G efforts at Expo 2025, Osaka, Kansai, Japan
- It provides an opportunity to experience the image of society and lifestyles in the future, where Beyond 5G is realized, as a Beyond 5G ready showcase, with an emphasis on reality and immersion.
- In addition, there will be exhibits on Japan's research and development and cutting-edge technology, and to further promote international collaboration, build friendships in standardization activities, social implementation and overseas deployment.
- Both an on-site event and a virtual event will be held, so that many people in Japan and overseas can experience it.

Event Info.

■ On-site Event

Organizer: Ministry of Internal Affairs and Communications (MIC)
Period: **May 26 – June 3 (9 days)**
Venue: **Yumeshima, Osaka, EXPO Exhibition Center “WASSE” (North)**
Exhibit Info: Consists of 3 Zones (Event land area : 2000m²)

ZONE 1 Prologue Theater

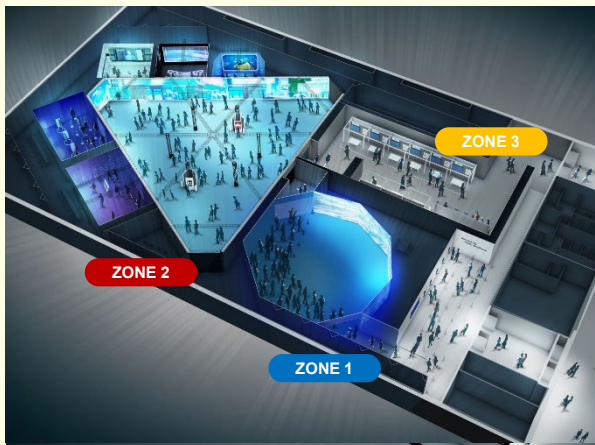
Through dynamic visual effects, we aim to bring communication closer to visitors while promoting a deeper understanding of Beyond 5G.

ZONE 2 Future City Area + Technology Experience Booth

This zone will provide visitors with opportunities to experience a simulated experience of their lives in the future where Beyond 5G is realized, with an emphasis on reality and immersion.

ZONE 3 Beyond 5G Development Technology Exhibit

Exhibition of the technologies under development by the Beyond 5G Fund Projects, etc. of the Ministry of Internal Affairs and Communications and NICT.



■ Virtual Event (Online)

Organizer: Ministry of Internal Affairs and Communications (MIC)
Period: **May 26 – Oct. 13 (141 days)**

Experience similar content to the on-site event in a virtual space on the website.





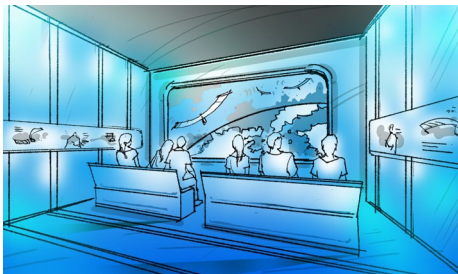
Beyond 5G ready showcase

Venue Layout and Main Content (Conceptual diagram)

- Through 3 Zones (Event land area: 2000m²) [1] Video content that makes you feel close to communications and that promotes understanding of Beyond 5G, [2] Experience content that enables you to feel the image of the future society and life realized by Beyond 5G, and [3] Technology exhibit

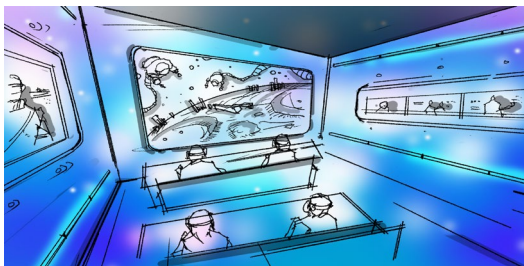
Future City Area + Technology Experience Booth
Content Image (Example)

■ HAPS Recovery



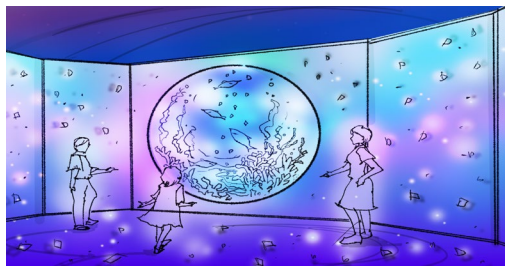
A realistic experience booth lets you directly experience how communications are recovered by operating HAPS in regions where communications have been cut off due to natural disasters.

■ Remote Moon Operation



An immersive experience booth utilizing VR goggles to remotely control a robot at the lunar base from the earth in real time to perform lunar surface operations.

■ Ocean Cleaning



A theater-style experience booth where you can remotely control an underwater robot from land and engage in activities to maintain the marine environment.

ZONE 2

Future City Area + Technology Experience Booth



- Exhibition of the technologies under development by the Beyond 5G Fund Projects, etc. of the Ministry of Internal Affairs and Communications and NICT.
- Shows visitors the development status and outlook on cutting edge technology.

ZONE 3

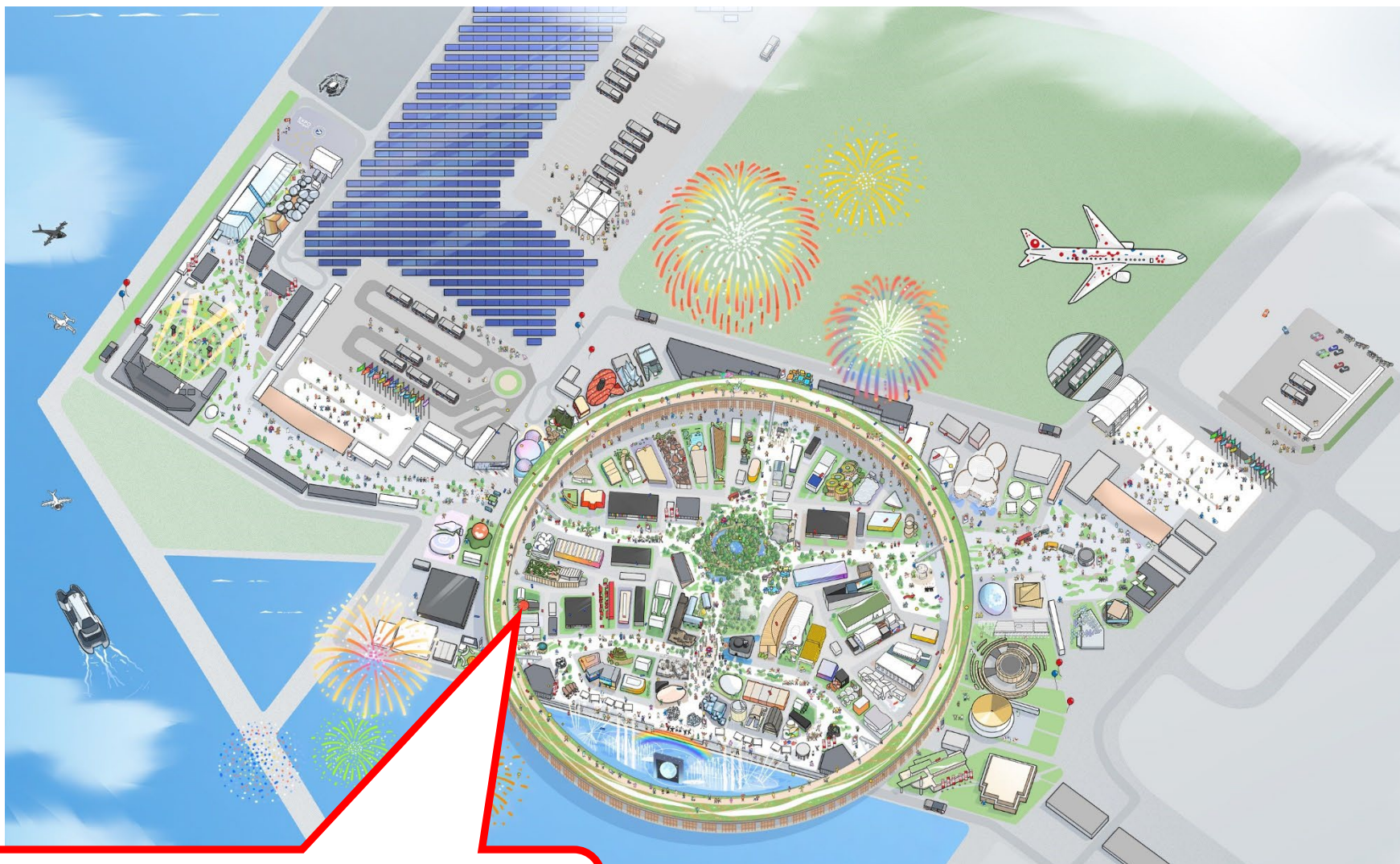
Beyond 5G Development Technology Exhibit



ZONE 1

Prologue Theater

- History of communications and transition to the future produced in dynamic videos.
- Visitors can directly experience the theme of communications, and understanding of the next generation communications Beyond 5G is promoted.

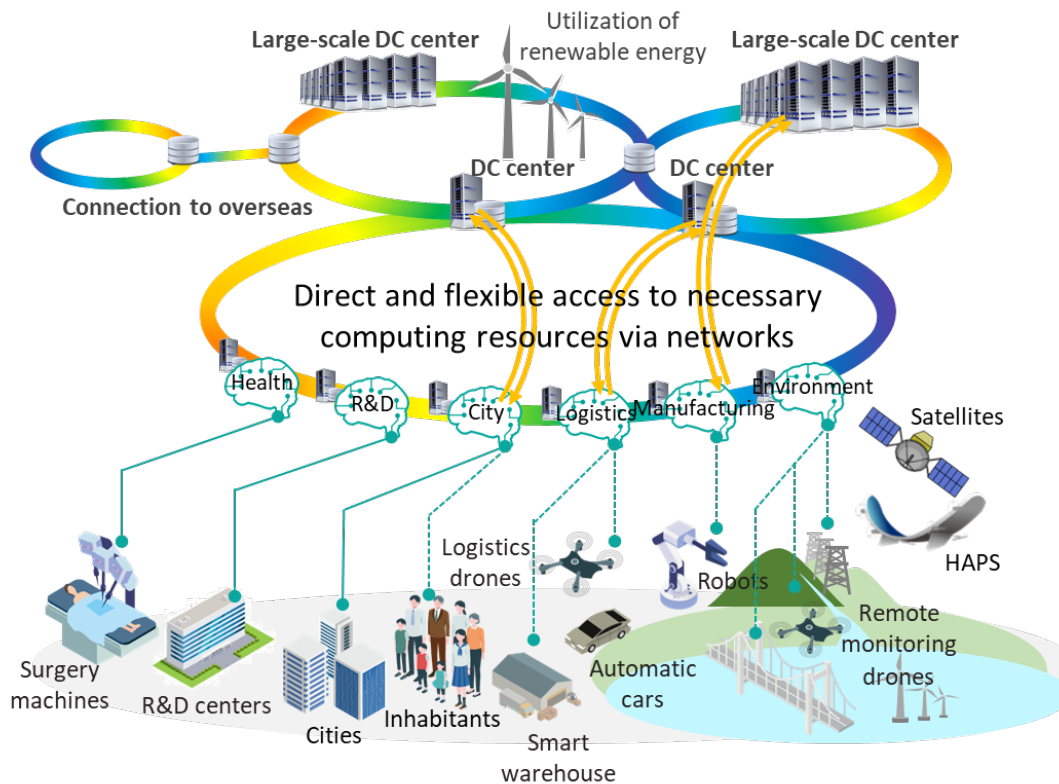


Venue : EXPO Exhibition Center “WASSE” (North)
Location where MIC’s “Beyond 5G ready showcase” on-site event is held

<Yumeshima, Osaka>

Source : Expo 2025 Osaka, Kansai, Japan

Pictures are for illustrative purposes only. Arrangements and building shapes may somewhat differ from the actual venue. Unauthorized reprinting or reproduction of this pictures is strictly prohibited.



A next-generation information and communication infrastructure (**Beyond 5G**) should be **extensively connected** on multi-layered networks (**RAN** and **NTN**) and **all-photonics networks (APN)**:

- **A wide variety of users**
- **Objects and sensors**
- **Numerous small and distributed AIs** specialized in individual fields
- **Computing resources**, such as **data centers** where **renewable energy** can be utilized

Accelerate innovation that resolves social issues
by providing **green, safe, secure, and reliable AI** to all of society through **Beyond 5G**