

Title

Toward Society 5.0- Cross-Industry Open Service Platform
and Invitation to Innovation Bridge @TOKYO

Full name of Speaker

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Institution

National Institute of Information and Communications Technology (NICT)

Background :

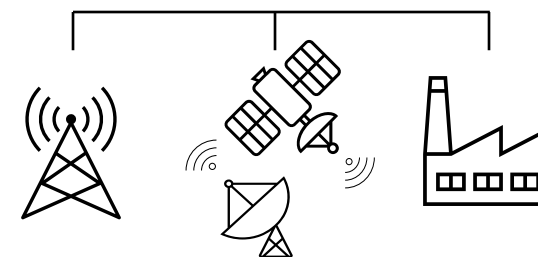
Beyond 5G is the next generation mobile communication system expected to be used from around 2030.

It is believed that one of the key features of Beyond 5G will be to offer new value from the creation of **cross-industry services**.

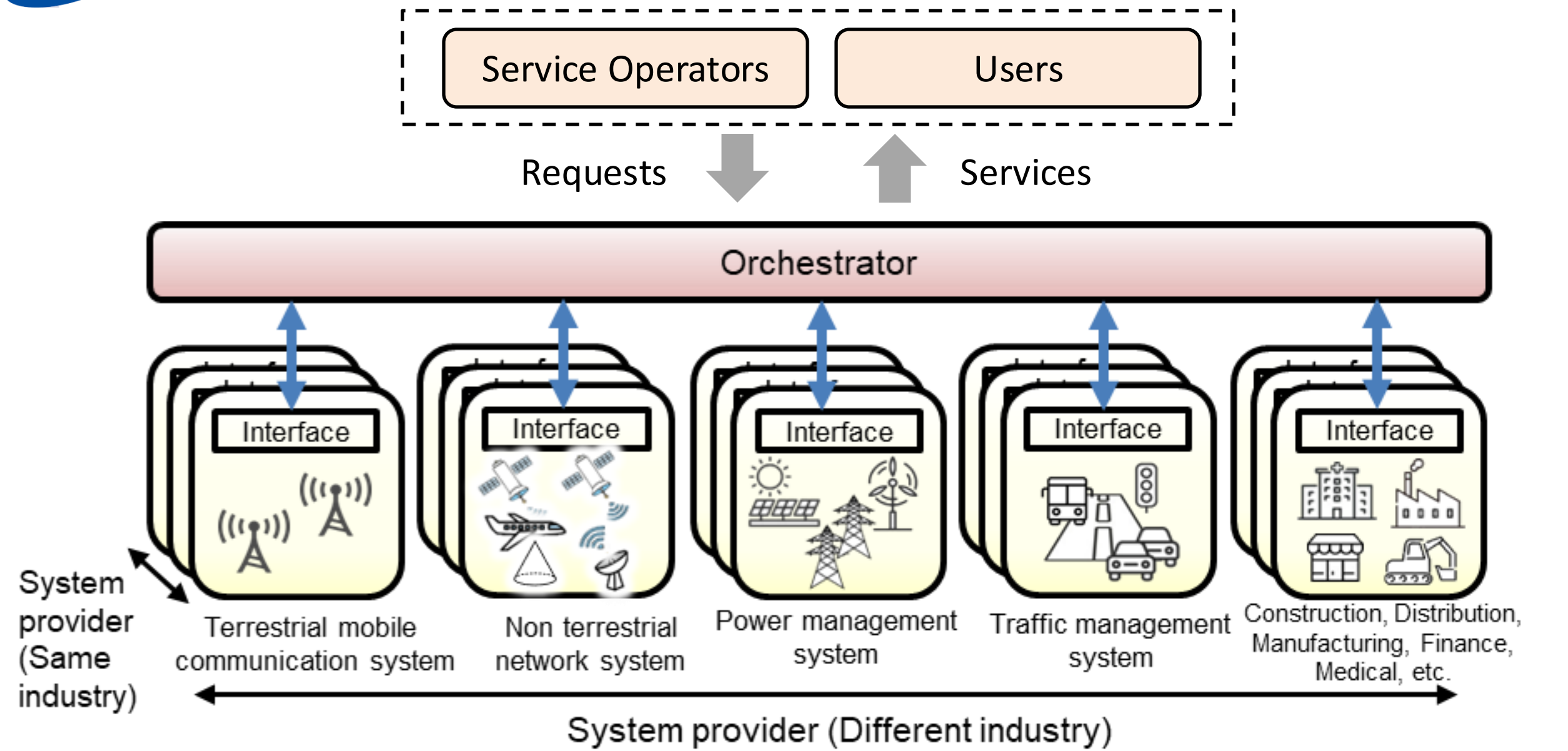
However, an architecture focused on this feature has not been sufficiently investigated.

Targets:

To realize cross-industry services,
it is necessary not only to advance elemental technologies but also to create a mechanism to connect the



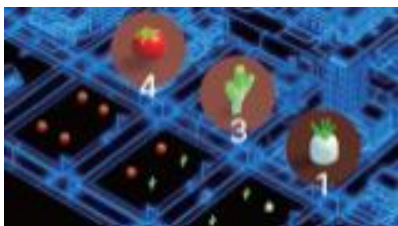
Architecture: Cross-industry Orchestration



Examples of cross-industry Orchestration

Three of orchestration stories

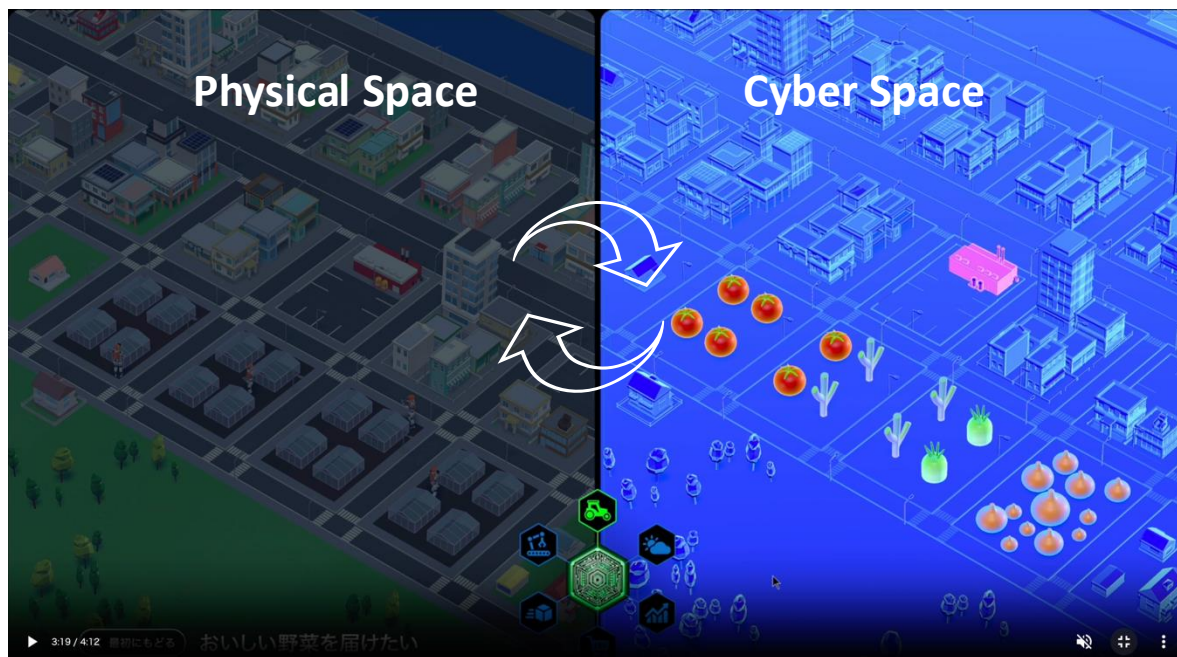
1 Productive agriculture



2 Reduction of CO2 emission



3 Reduction of disaster risks

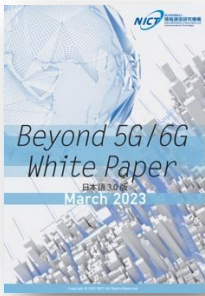


現状の
今何が
具体例

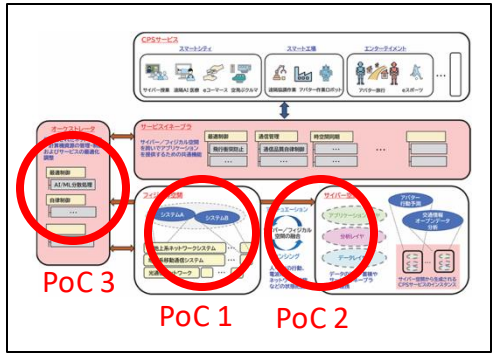
Industrial collaboration is essential for productive agriculture such as weather and transportation information.

Vision to Reality

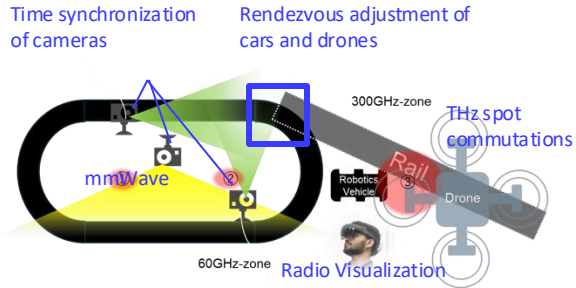
Let us turn vision into reality together through PoC.



Key aspect extraction



PoC 1 : THz, Time-Space Synchronization



Harmonization of multi-view high-resolution videos using THz/mmWave and time-space Synchronization technologies

Interdisciplinary harmonization

RWTH Aachen, Germany (Radio Visualization)	Univ. of Tokyo (Digital Twin Visualization)
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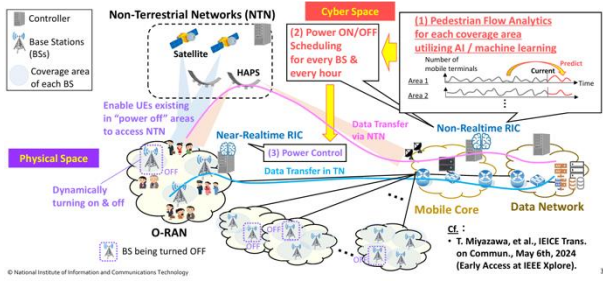
Information dissemination

CEATEC	MWC2025
Osaka Expo	XGMF THz

International Standardizations

3GPP	IEEE802
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PoC 2 : O-RAN with CPS, NTN, and AI



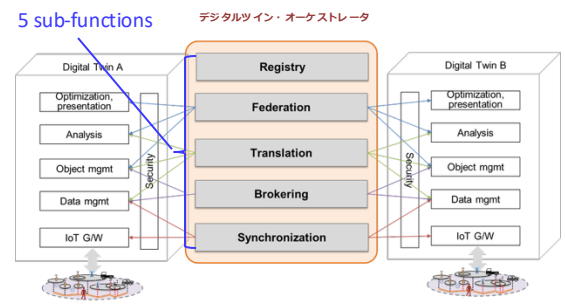
Network virtualization for QoS management and energy saving based on O-RAN and TN/NTN harmonization

SUTD, Singapore
(O-RAN Intelligence)

CEATEC	MWC2025
Osaka Expo	XGMF NTN

ITU-T

PoC 3 : Digital Twin Orchestration



Cross-industry orchestration of Digital Twins based on newly defined 5 functional modules

KDDI Labs
(Digital Twin Cyber Security)

CEATEC

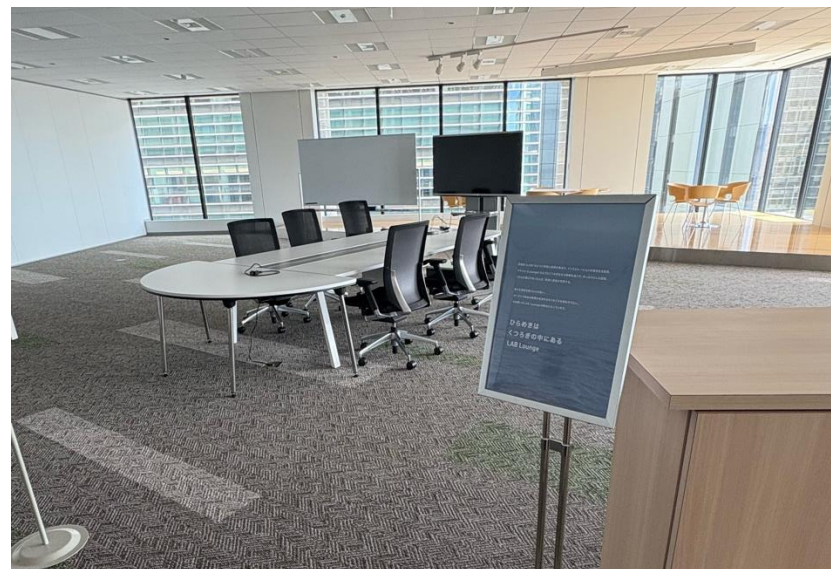
IOWN GF

Co-creation Hub -Innovation Bridge @TOKYO-



参加
どうし
どうし

Pre-opening at the end of August 2025
Full-scale opening planned for March 2026
Highly accessible building in central **Tokyo**



-Innovation Bridge @TOKYO-

Aiming at Beyond 5G / 6G R&D innovations

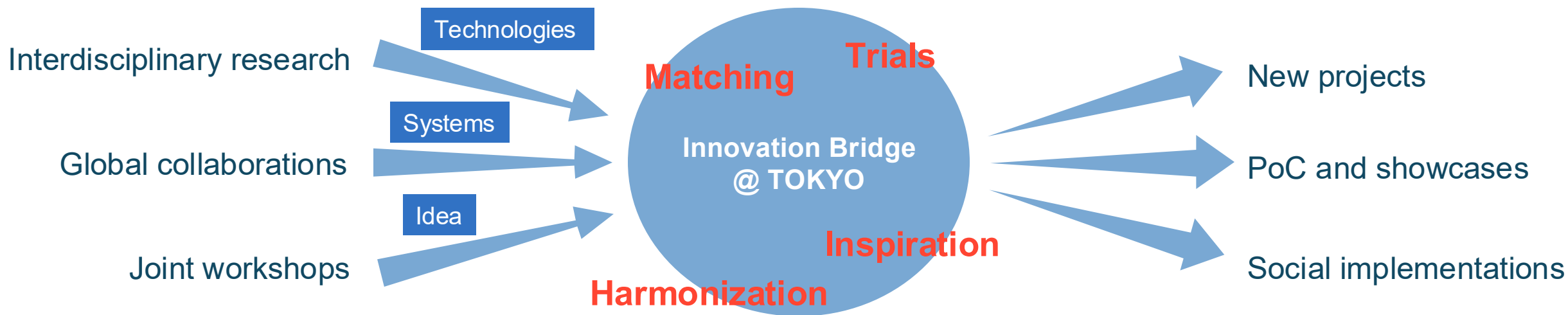
At Innovation Bridge @TOKYO,
Bringing together technologies systems, and idea from **various industrial fields**

Our **Key Strategies** are

Agile Prototyping and Field Demonstration

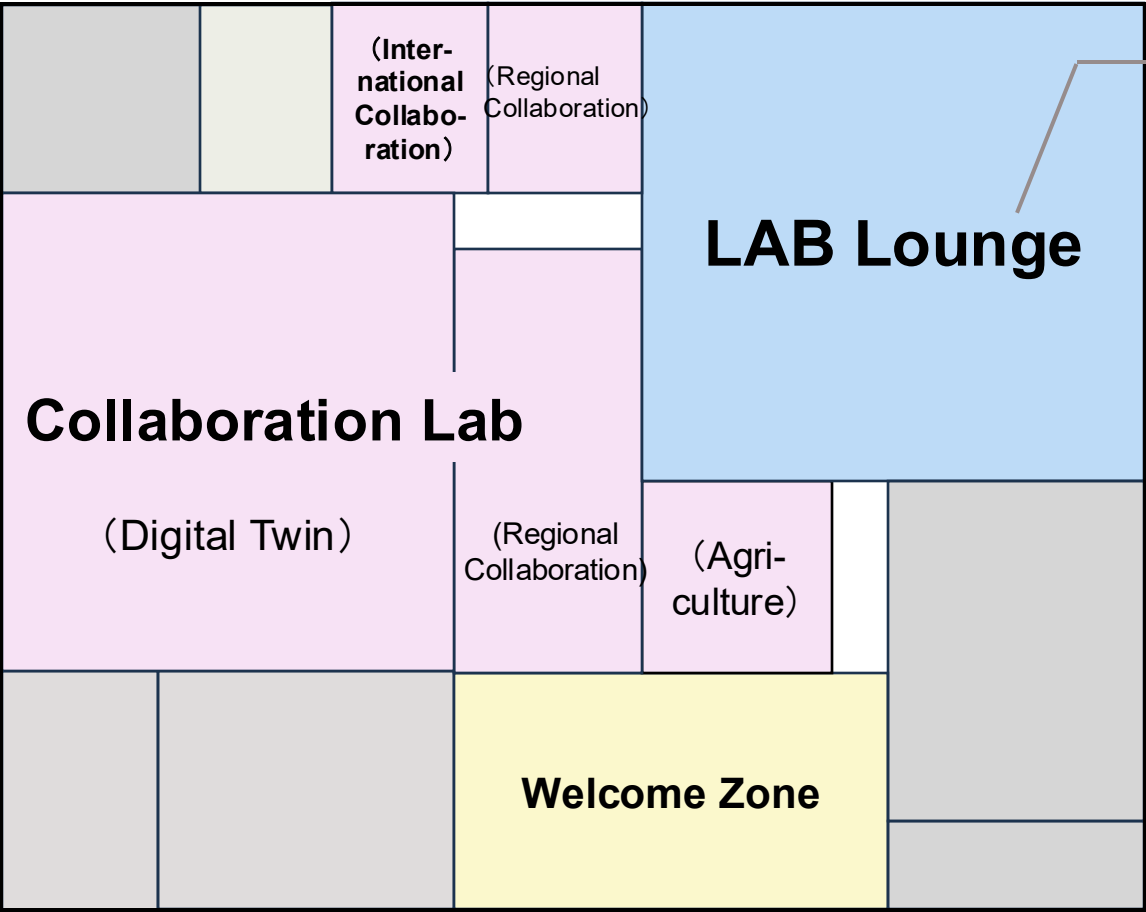
Community Building

Technology Integration



Collaboration Lab

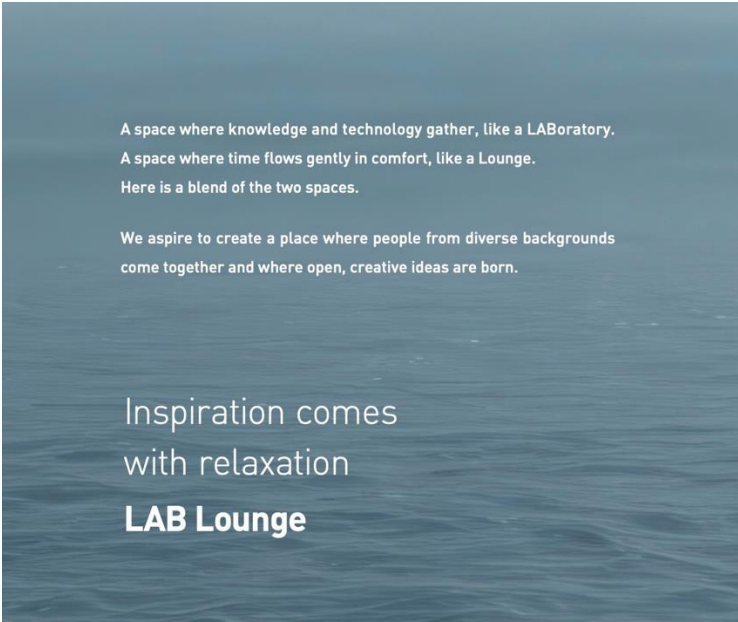
A hub where technologies, knowledge, and experiences converge to create new value.



Entrance

LAB Lounge

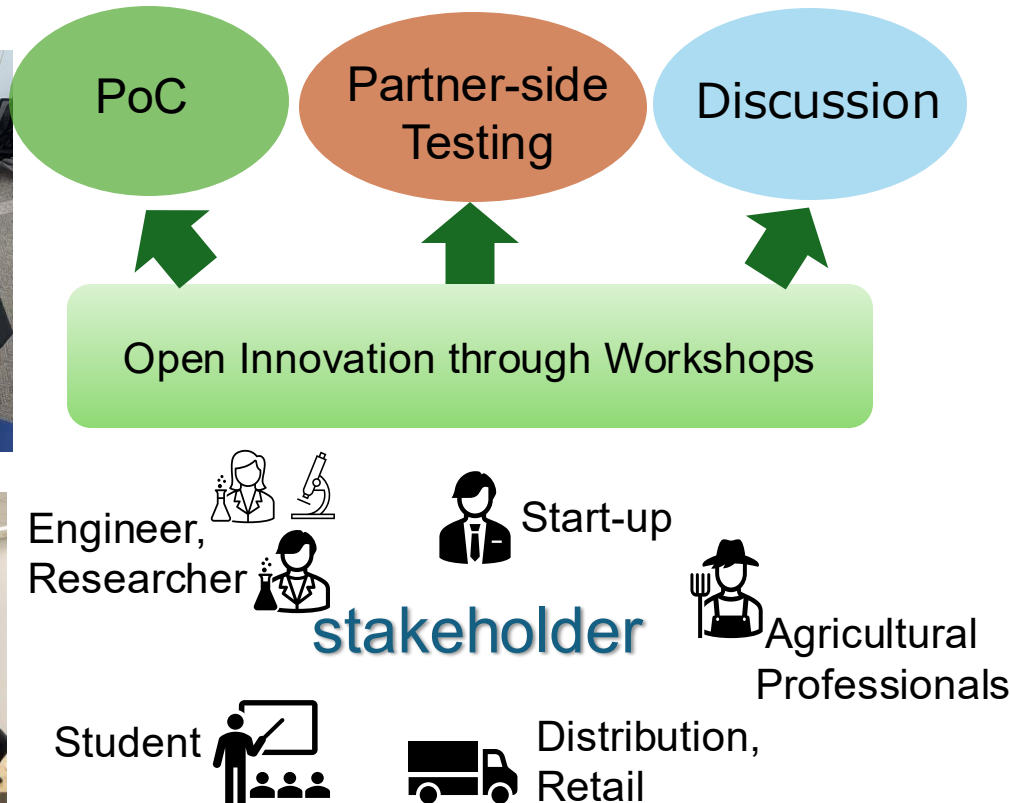
A place where stakeholders from diverse backgrounds gather for open and free discussions, inspiring new ideas.



Our Activities at Innovation Bridge @TOKYO

Agri-Chain Event

- Discussions to realize cross-industry collaboration inspired by the agricultural field



Zero Gravity Event

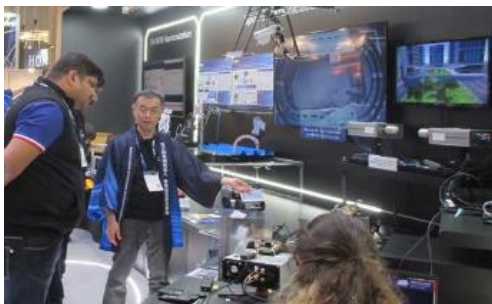
- Building a community around Innovation Bridge @TOKYO
- Creating opportunities for collaboration within and beyond NICT



Our Activities

NICT presents our activities at major international exhibitions and conferences.
We look forward to collaborating with you.

MWC 2025



Expo 2025 @Osaka

