

Open Up Bright Future

2025  
Summer

# Xross B5G

English Edition

Beyond 5G R&D Promotion Unit  
National Institute of Information and Communications Technology

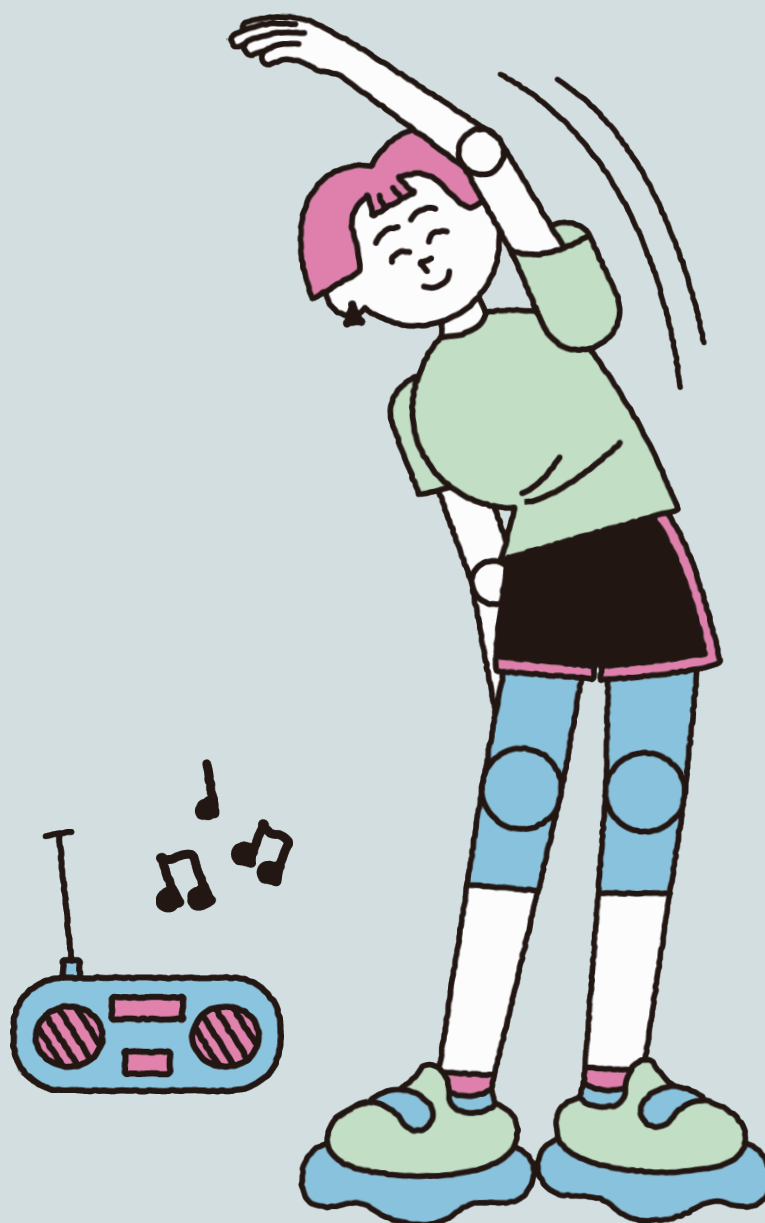
## Unceasing Dialogue

The Second Northeastern University–NICT Beyond 5G Research Workshop Held in Boston

Exhibiting at Wireless Japan 2025 × Wireless Technology Park (WTP)

Exhibiting at ICT Fair in Tohoku 2025

Participation in NICT Open House 2025



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## Report

# The Second Northeastern University-NICT Beyond 5G Research Workshop Held in Boston

“The 2nd Beyond 5G Research Workshop” was held on June 17, 2025 at the campus of Northeastern University (NU), and on the following day at the Burlington campus, with the theme of strengthening the Japan-U. S. Beyond 5G R&D collaboration in a wide range of technical fields for social implementation.

In recent years, NU has focused its investment on computer science, networks, and AI, and its ranking among US universities has risen sharply, making it one of the most promising universities in the field of ICT. The first workshop was held in NICT Headquarters and Innovation Center in January 2025.

There were more than ten participants from NU, including Vice President D. Luzzi, Professor T. Melodia, who is the Wireless IoT Director General, Associate Director Professor J. Jornet, and Director M. Gosain, as well as professors, associate professors, and postdocs. They enthusiastically introduced NU's initiatives, including research presentations, demonstrations, and lab tours.

Eight people from NICT, including HOSAKO Iwao Executive Director of Beyond 5G Research and Development Promotion Unit and ISHIZU Kentaro Director of Beyond 5G Design Initiative, visited the site and had in-depth discussions on collaboration research themes related to Beyond 5G. What is noteworthy about the research environment at NU is that the entire campus has been designated as an FCC Innovation Zone, where innovative wireless systems can be easily demonstrated. In addition, the demonstration system has been thoroughly softwareized and made open, and it has been deployed in the lab, making it possible to implement and experiment with various wireless network methods with simple configuration changes.

At NICT, to realize social change through Beyond 5G, we will continue to deepen global dialogue and collaboration and aim to improve the research presence and strengthen industrial competitiveness not only of NICT but also of Japan as a whole.



The EXP Building at NU's Boston Campus



Building 5 at NU's Burlington Campus



Vice Provost D. Luzzi (center) and  
Dr. HOSAKO (right).  
(In the background, Prof. Melodia  
is seen from behind.)



The Colosseum Server Room  
(with an explanation by Prof. Melodia)

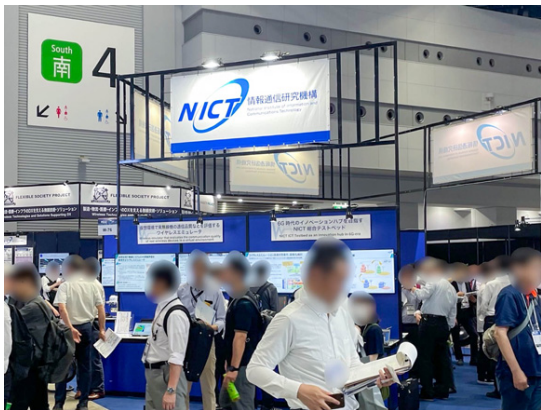
## Report

# Exhibiting at Wireless Japan 2025 × Wireless Technology Park (WTP) 2025

From May 28 (Wed) to May 30 (Fri), "Wireless Japan 2025 × Wireless Technology Park (WTP) 2025" was held at Tokyo Big Sight, and NICT participated in the event again this year. This year, many technologies related to Beyond 5G, such as terahertz wave communication and non-terrestrial networks, were exhibited, and many visitors visited throughout the day.

At the Beyond 5G Research and Development Promotion Unit booth, we exhibited the demonstration "The Town of the Future, Created by Beyond 5G," in which visitors can experience "orchestrator," a function necessary for Beyond 5G, in a scenario format. A video of the demonstration is also available on the Unit's website\*, and we warmly invite you to take a look.

Throughout the exhibition, we had the opportunity to engage in discussions not only with experts from the telecommunications sector, but also with professionals from diverse fields such as agriculture, construction, and transportation. We will continue to expand the understanding of Cyber-Physical Systems and orchestrator to people from more industries and discuss the realization of cross-industry collaboration.



NICT exhibition booth at  
WTP2025



"The Town of the Future, Created by  
Beyond 5G" Demo

Date: May 28 (Wed.) - May 30 (Fri.), 2025

Venue: Tokyo Big Sight, South Halls 3 & 4 (Ariake, Koto-ku, Tokyo)

Organizer: RIC TELECOM Co., Ltd.

Website: <https://wjwtp.jp/2025/en/>

(Organizer's Website)

<https://beyond5g.nict.go.jp/media/tpmov.html>

(\*Watch the Demonstration Video)



## Exhibiting at ICT Fair in Tohoku 2025

On June 12, 2025, the “**ICT Fair in Tohoku 2025**” was held at Sendai Mediatheque, organized by the Ministry of Internal Affairs and Communications (MIC) and the Tohoku Bureau of Telecommunications. NICT once again took part in this event, following its participation last year. From NICT, a robot that can predict radio wave environments and drive safely at disaster sites using AI, simultaneous interpretation technology using AI, visualization of radio waves at manufacturing sites, and metamaterial reflectors to eliminate dead zones were exhibited. The exhibition was crowded with many visitors throughout the day.

At the booth of the Beyond 5G Research and Development Promotion Unit, visitors were invited to experience what everyday life might look like in the Beyond 5G era. Exhibits included immersive VR goggles offering 360-degree video, as well as a PC-based interactive program, “**The Town of the Future, Created by Beyond 5G,**” which presented three different storylines to explore.

The VR goggles, enjoyed by many visitors including children, were well received, with comments such as “Amazing, so exciting!” Throughout the exhibition period, we held dialogues with people from various fields, not only from the ICT industry but also from agriculture, transportation, distribution, and regional governments, and received positive feedback on our concept that “**cross-industry collaboration, integrated through the orchestrator, will shape the future society.**”

Through the exchange of opinions with local people in Sendai City, we once again realized the issues and characteristics of local cities. Moving forward, we will continue working to build frameworks that foster cross-industry collaboration.

Date: June 12 (Thu.), 2025

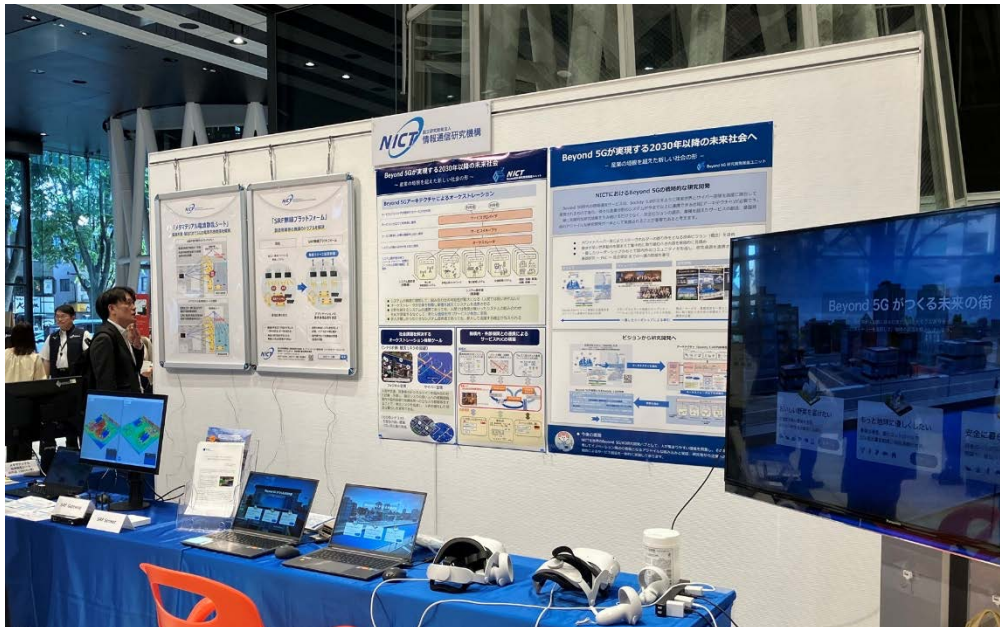
Venue: Sendai Mediatheque (Aoba-ku, Sendai City, Miyagi Prefecture)

Organizer: Ministry of Internal Affairs and Communications (MIC) / Tohoku Bureau of Telecommunications

Website: <https://mercato.gr.jp/ictfair2025/> (Organizer's Website)







Exhibition Booth and Demonstrations at ICT Fair in Tohoku 2025

## Participation in NICT Open House 2025

On June 20 (Friday) and 21 (Saturday), 2025, NICT hosted **"Open House 2025"** at its Headquarters in Koganei, Tokyo. The event offered the public a rare opportunity to explore NICT's latest research achievements and ongoing initiatives. Presented in a hybrid format—with both on-site exhibits and online streaming—the Open House attracted a wide audience and generated lively engagement.

The first day, June 20 (Friday), featured a program tailored primarily for business professionals. Highlights included a keynote speech by President TOKUDA Hideyuki, a special speech with Ms. MURAKAMI Tomoko, Director of the AI Safety Institute, and presentations by researchers. The next day, Saturday, the 21st, the doors were opened to the public. Families, students, and many others filled the venue, enjoying a variety of exhibits such as hands-on demonstrations, interactive displays, the popular "Antarctic Post" corner, and guided tours of NICT facilities. In addition, multiple presentations were made throughout NICT, including a presentation\* by Innovation Producer Shinkawa Beyond 5G Research and Development Promotion Unit on **"Cross-Industry Orchestration with Beyond 5G,"** which introduced the possibility of a cross-industry collaboration enabled by Beyond 5G technologies.

At the booth of the Beyond 5G Research and Development Promotion Unit, visitors were invited to explore interactive touch-panel displays that presented storylines of **"The Town of the Future, Created by Beyond 5G."** In addition, a web-based quiz, **"Beyond 5G & NICT Quiz,"** was made available online. We received many impressions, opinions, and reactions about touch panels, including comments such as, "I felt a sense of affinity when my industry appeared," and seeing children gather at touch panels to experience it. The online quiz remains open\*\*, and we warmly encourage you to try it.

NICT Open House 2025 served not only to showcase research achievements, but also to share visions of the future through conversations and interactive experiences with our visitors. We will continue our efforts to connect technology with society. The technical exhibition posters of each laboratory exhibited in the two days are available on the official website until Friday, November 28, 2025. We encourage you to explore them.

Date: June 20 (Fri.) - June 21 (Sat.), 2025

Venue: NICT Headquarters (Koganei City, Tokyo)

Organizer: National Institute of Information and Communications Technology (NICT)

Website: <https://www2.nict.go.jp/publicity/openhouse/2025/>

(NICT Open House Official Website)

<https://www.youtube.com/watch?v=SeqHKFIL7eU>

(\*Presentation Video)

<https://beyond5g.nict.go.jp/quiz/>

(\*\*Beyond 5G & NICT Quiz)





# Beyond 5Gによる産業間オーケストレーション

## コンテンツ作成による理解拡大

### ホワイトペーパー等による コンセプトの共有



### 連携した取組み

- 2024年度  
主幹イベント・研究会輪席と研究会参加
- ・ Beyond 5G セミナリウムイベント (4-4期)
  - ・ EBU Beyond 5G/6G 研究会ワークショップ
  - ・ ワイヤレス・テクノロジー・フォーラム (wtf)
  - ・ NICTオープンハウス
  - ・ こども産研共創サミット
  - ・ CGATE
  - ・ WDCS (5G/6Gワイヤレスデモコンテスト)
  - ・ Beyond 5G国際カンファレンス
  - ・ MWC Barcelona 2023
  - ・ NICT見学 (筑波大学後援)



### Beyond 5Gを活用した未来社会の 創造と実証



### Beyond5G

Beyond 5G研究開発推進ユニット  
Beyond 5Gデザインイニシアティブ  
イノベーションプロデューサー  
**新川 雅之**

研究者によるプレゼンテーションタイム

Beyond 5G 研究開発推進ユニット

NICTオープンハウス2025

NICT オープンハウス2025

Presentation on inter-industry orchestrations by Beyond 5G  
(available on YouTube until November 28, 2025)

This text has been Translated using “Min’na no Jidou Hon’yaku@TexTra ©.”

# XrossB5G

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## Unceasing Dialogue

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## EVENT EXHIBITION SCHEDULE

# Keihanna R&D Fair 2025 20251004

@Keihanna Plaza

Keihanna R&D Fair 2025 10.04 Seika Town, Kyoto Prefecture  
<https://www.keihanna-fair.jp>けいはんな 2025  
R&Dフェア  
科学で描こう  
—けいはんなの未来キャンパス—

# CEATEC 2025 20251014 → 17

@Makuhari Messe

CEATEC 2025 10.14-10.17 Makuhari Messe, Chiba City  
<https://www.ceatec.com/en/>ISSN 2759-5285 ONLINE  
ISSN 2759-5293 PRINT