



**National Institute of Information and  
Communications Technology**

# Beyond human intelligence, co-create new standards for future society.

NICT aims to promote the social implementation of research outcomes and realize a future society through research in the Five priority R&D areas, Four strategic fields, and Foundational R&D for innovation, as well as through the functions of the “Innovation Hub,” which connects NICT with external organizations.



Four strategic fields

Five priority R&D areas

Innovation Foundations

Innovation Hub

Partner



Companies / Start-ups  
Universities / Research institutions etc.

## The society of the future NICT should aim for

A resilient society capable of responding to increasingly severe natural disasters



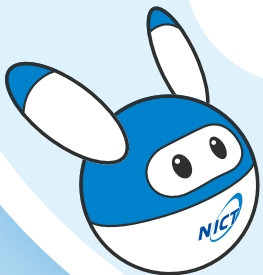
A digitally secure society in which everyone can safely benefit from ICT



A sustainable and vibrant society enabled by green and digital initiatives



A human-centric AI society that promotes productivity improvement



## Four strategic fields Technology fields to Be Advanced Strategically

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We accelerate innovation by strategically promoting technologies that support Japan's key policies across domains, serving as a central nexus that links R&D with social implementation.

### AI・Communication

Through the R&D of technologies of AI complexes and a platform that dynamically evaluates LLMs, we promote the development and utilization of trustworthy AI in Japan.

### Beyond 5G

To realize and globally expand Beyond 5G, NICT functions as an innovation hub, promoting strategic R&D aimed at creating use cases and enabling early social implementation.

### Quantum ICT

We support the creation of use cases for the early social implementation of quantum cryptography, and conduct fundamental and foundational R&D in quantum information and communication toward achieving a global quantum-secure network.

### Cybersecurity

As Japan's core center for cybersecurity R&D, we actively disseminate research outcomes and contribute to building an ecosystem of human resources and technologies that underpin Japan's cyber resilience.

## Five priority R&D areas Fundamental and Foundational R&D to Be Promoted as Priorities

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We advance R&D that secures a robust, safe, and reliable communication environment, contributing to a sustainable society that supports GX/DX and to the creation of new value.

### Advanced electromagnetic technology

Through R&D and public services related to electromagnetic waves such as radio waves and light, we promote the realization of a safe, secure, and reliable social infrastructure by accurately capturing changes in society and nature.

Remote Sensing Technology / Space Environment Technology / Electromagnetic Compatibility Technology / Space-Time Standards Technology / Digital-Optics Technology

### Innovative networks

To achieve high-speed and reliable transmission across terrestrial and space environments, we conduct R&D on network infrastructure technologies that provide sustainable, resilient, safe, and comfortable communications.

Network architecture technologies / Photonic Network Technology / Optical and Radio Convergence Technology / Next-Generation Wireless Technology / Space Communications Fundamental Technology

### Cybersecurity

To protect social systems and citizens from cyber threats, we conduct fundamental and foundational cybersecurity R&D and promote the dissemination and social implementation of research results.

Cybersecurity technologies / AI × cybersecurity technologies / Next-generation cryptography and privacy protection technologies / Cybersecurity trainings / Promotion of industry-academia-government collaboration / Promotion of cybersecurity measures for IoT devices

### Universal communication

We aim to address social issues and create new value through the safe and secure use of AI enabled by both the R&D and the social implementation of technologies for AI complexes and multimodal AI communication.

AI complex technologies / Multimodal AI communication technologies

### Frontier science

Through R&D on advanced foundational technologies that lead to disruptive innovation in next-generation ICT, we contribute to forming new concepts and frameworks that underpin the ICT of future society.

Advanced ICT foundational technologies / Frontier ICT technologies / Bio-inclusive ICT platform technologies / Brain-ICT interface technologies

## Innovation Foundations Foundational R&D Themes Supporting Innovation

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We promote critical R&D that integrates foundational ICT technologies across domains to accelerate innovation in Japan.

Resilient ICT foundational technologies / Beyond 5G architecture technologies / Terahertz-wave ICT platform technologies / Global quantum-secure network technologies / Testbed construction technologies for the Beyond 5G era / Advanced ICT device development platform technologies

## Innovation Hub Social Implementation Functions / External Collaboration Functions

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- We will strengthen NICT's Innovation Hub functions to promote the social implementation of technologies originating in Japan.(Development of co-creative innovation testbeds / More effective utilization of facilities, infrastructure, and data, etc.)
- We will also enhance NICT's functions as a research funding and program management agency, among other initiatives.

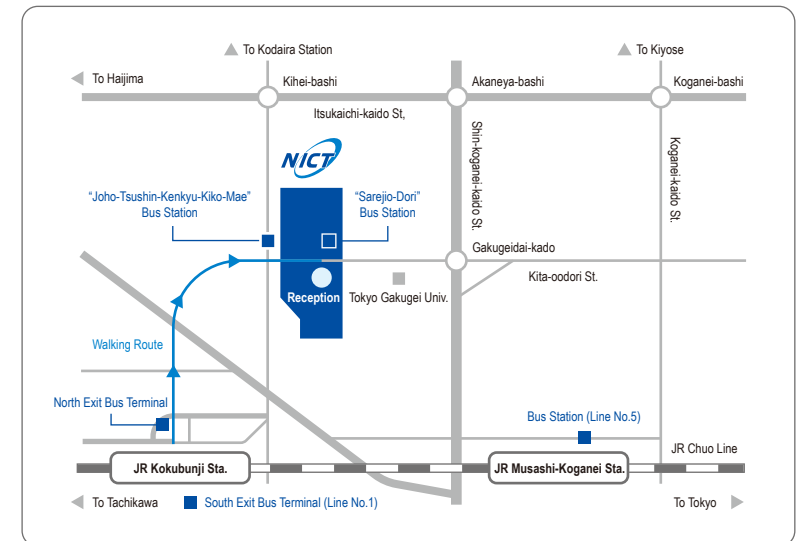
# Organizational Structure under the 6th Mid- to Long-Term Plan

April 2026 – March 2031



Number of Staff (FY 2026): 1,653 (including non-regular staff)  
 Budget for FY 2026 (Total Revenue): ¥60.06 billion  
 (Breakdown: Operating Subsidy ¥30.10 billion;  
 Grants 17.26 billion (of which ¥11.50 billion is allocated to the fund\*);  
 Contracted Income and Others ¥12.70 billion)  
 \*Innovative ICT Fund for Beyond 5G/6G Projects

As of April 1, 2026



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