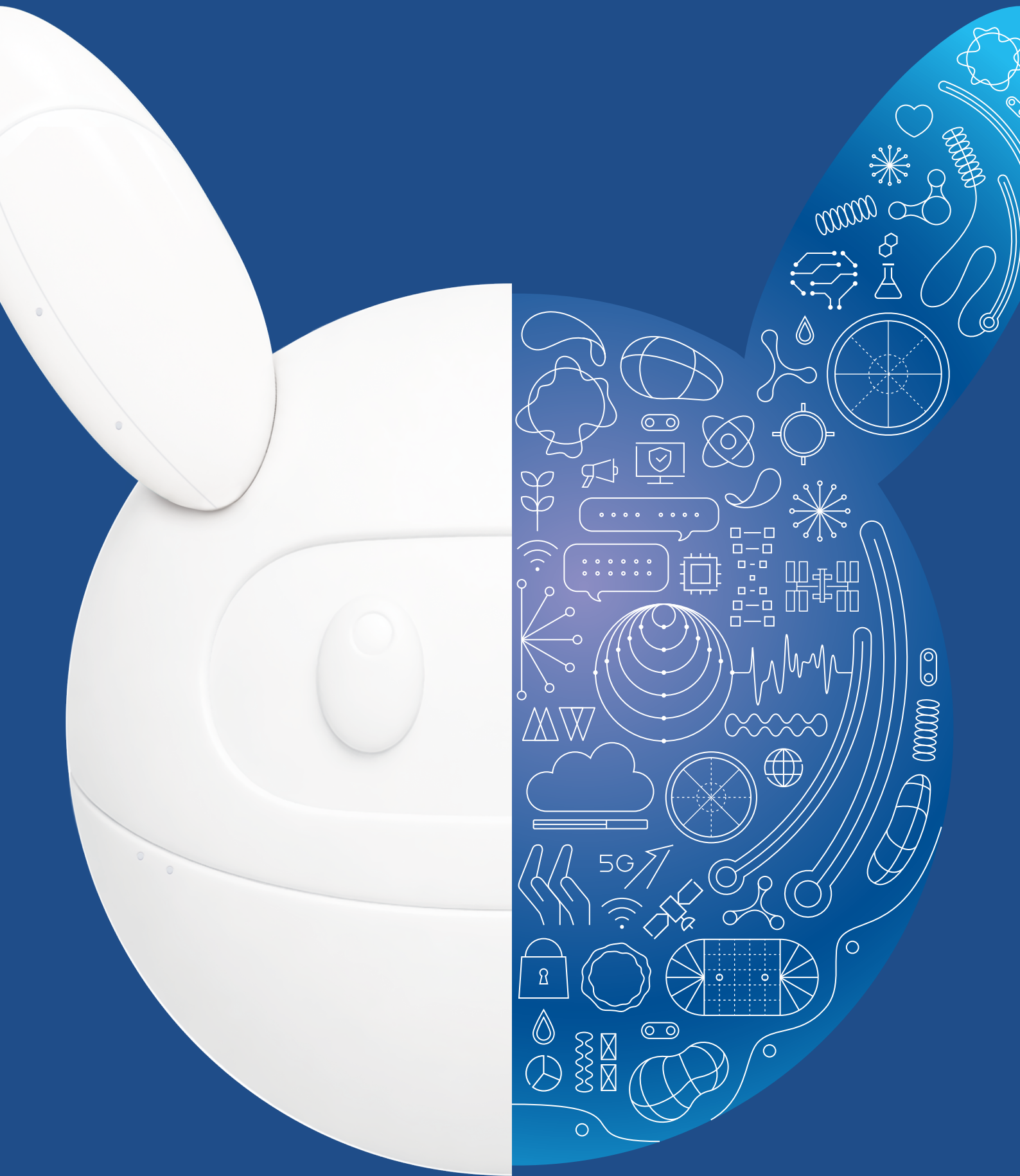




**National Institute of
Information and Communications Technology**





An Innovation Platform for
Co-creating the Social Infrastructure
of the Future through
R&D, Funding, and Public Services

NICT

The National Institute of Information and Communications Technology (NICT), as Japan's sole public research institute specializing in information and communications technology (ICT), is dedicated to driving innovation by advancing the full spectrum of ICT research and development (R&D), from fundamental to applied research, and by translating research results into real-world impact through close collaboration with universities, industry, local governments, and research institutions in Japan and around the world.

Under NICT's 6th Medium- to Long-Term Plan (April 2026 – March 2031), NICT will comprehensively advance four strategic areas: AI and communications, Beyond 5G, quantum ICT, and cybersecurity, while also carrying out R&D, funding programs, and public services, including the provision of Japan Standard Time. Three elements are critical to this mission: an architect's perspective that enables us to maintain a broad view of individual technologies and design and integrate them into coherent systems; intelligence to identify and assess global developments at an early stage; and agility to respond swiftly and flexibly to rapid changes in our environment. By organically combining these three elements, NICT will fulfill its role as a core institution supporting Japan's ICT ecosystem. Furthermore, as an R&D hub for ICT, NICT aims to build an innovation platform that brings together universities, industry, government, and other partners to foster co-creation.

Moving forward, NICT will contribute to strengthening Japan's strategic autonomy and indispensability through ICT, while also contributing to the safety, security, and sustainable development of society in Japan and around the world, continuing to take on challenges strategically and flexibly in response to a rapidly changing environment.

I would like to express my sincere appreciation for your continued understanding and support.



National Institute of
Information and
Communications Technology
President
Dr. OHNO Hideo



01



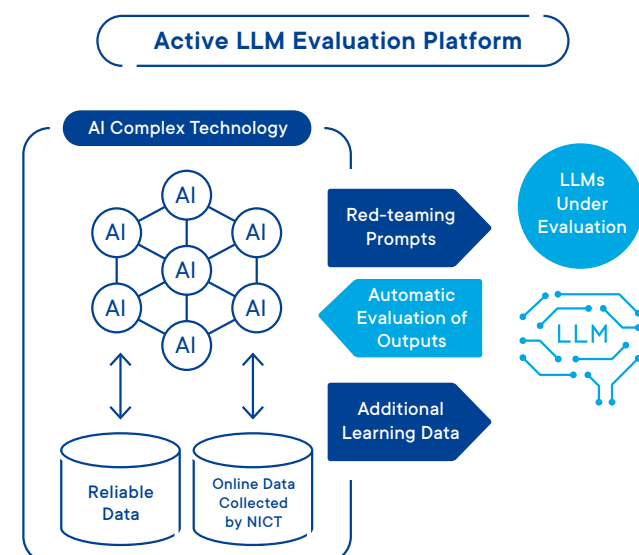
AI and Communication

Evaluating and Improving AI from the Perspectives of Japanese Culture, Customs, and Safety

At NICT, we are conducting research and development on the Active LLM Evaluation Platform. This system evaluates the reliability of large language models (LLMs), a type of AI that understands and generates natural language, using "AI complex technology," which consists of multiple AI models. To identify the weaknesses and issues of LLMs, the AI complex technology automatically generates red-teaming prompts from various perspectives, including whether an LLM appropriately reflects Japan's unique culture and customs, and whether it exhibits

safe and responsible behavior. It then inputs these prompts into the LLM and automatically evaluates the outputs.

Moreover, we automatically generate and provide additional learning data to help the LLM under evaluation evolve into a more reliable model based on the evaluation results. By bringing the Active LLM Evaluation Platform into broader societal use, we aim to contribute to the utilization of trustworthy AI in Japan.



03



Quantum ICT

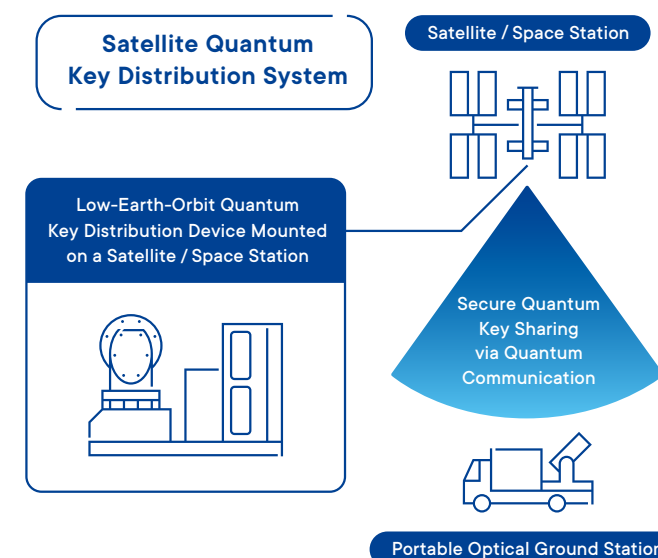
Building Secure and Reliable Communication Systems That Apply Quantum Mechanics

Quantum information and communication technology (ICT) is an information processing technology that utilizes quantum mechanics, which operates differently from physics we experience in our everyday lives. As the practical application of quantum computers approaches, quantum cryptography, which is impossible to decrypt by any computer with infinite computing power and is therefore considered secure and reliable, is attracting significant attention.

NICT plays a central role in Japan's world-class quantum key distribution network applications. We conduct basic research in quantum optics

and quantum information theory, as well as research and development on next-generation quantum information and communications.

Furthermore, in order to accelerate the social implementation of quantum cryptography and its practical use of quantum-secure cloud (a technology for the secure storage of data), we are working to build a quantum key distribution network connecting multiple companies, institutions, and organizations, advance research and development of quantum key distribution using satellites, promote international standardization, and develop skilled personnel in the field of quantum technology.



02

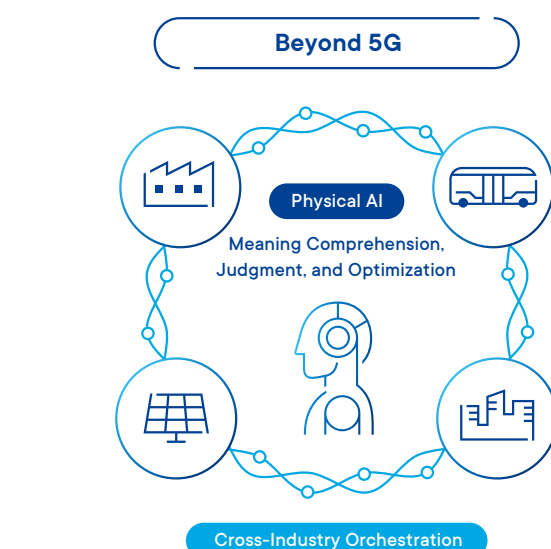


Beyond 5G

Transitioning to a Sustainable and Resilient Society Through Cross-Industry Architecture

In the Beyond 5G era, the next generation of information and communications technology beyond 5G, "Physical AI" (The advanced integration of physical robots and machines with AI), will be responsible for understanding, making judgments, and optimizing the real world, thereby accelerating cross-sectoral value creation. NICT aims to achieve a sustainable and resilient society through cross-industry collaboration, centered on a reliable and secure communications infrastructure along with cross-industry orchestration technologies.

Furthermore, with the Innovation Bridge @TOKYO at its core, we are comprehensively promoting co-creation among a diverse array of players, including industry, academia, government, and startups, as well as fostering global collaboration and driving social implementation and standardization. In addition, through Innovative ICT Fund Projects for Beyond 5G/6G, which supports industry-academia R&D and encourages R&D investment, we are leading the innovation ecosystem for the Beyond 5G era.



04



Cybersecurity

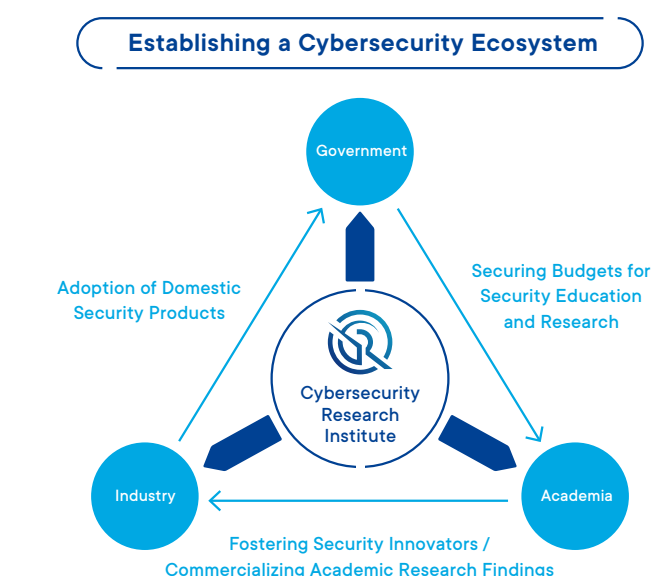
Improving Japan's Cyberattack Response Capabilities

Cybersecurity is a field of research dedicated to protecting individuals, businesses, and national security from ever-evolving cyberattacks.

NICT collects and analyzes first-hand information on a wide spectrum of cyberattacks and promotes research and development aimed at devising effective countermeasures. In particular, we focus on enhancing security with AI (AI for Security), ensuring the safety and reliability of AI (Security for AI), as well as the research and development of

post-quantum cryptography that even large-scale quantum computers would struggle to break. We also contribute to the safety evaluation of cryptographic methods used in sectors such as the government.

Furthermore, through cybersecurity workforce development and collaboration among industry, academia, and government, we aim to foster an ecosystem that strengthens Japan's cyberattack response capabilities and enhances its cybersecurity resilience.



01



Advanced Electromagnetic Technology Area

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

Radio Research Institute

Understanding and Harnessing Electromagnetic Waves for a Safe and Secure Social Infrastructure

The Radio Research Institute integrates R&D and public services related to electromagnetic waves, including radio and optical waves, contributing to the development of safe and secure social infrastructure.

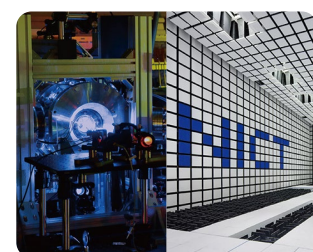
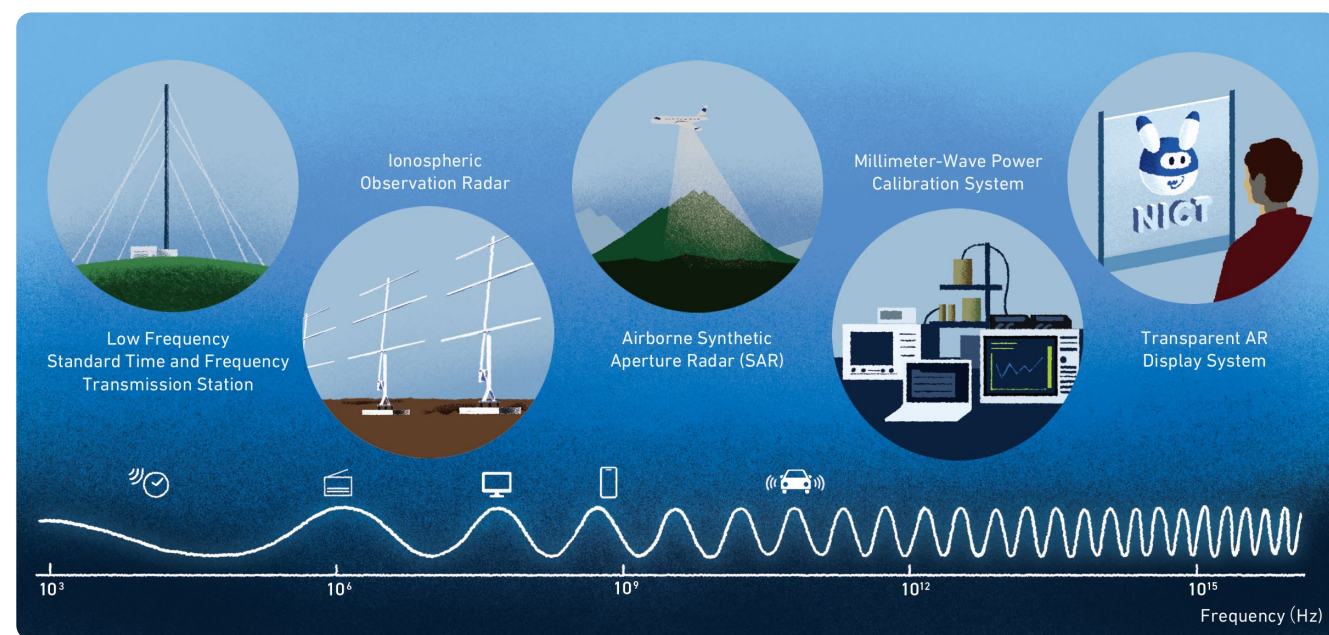
In Space-Time Standards and Electromagnetic Compatibility, we precisely characterize the behavior of electromagnetic waves. We maintain and advance the space-time standards that underpin society, including standard time services. We also promote the safe and reliable use of electromagnetic waves by ensuring electromagnetic compatibility and providing calibration services for measuring instruments.

In Remote Sensing, we establish core technologies for disaster preven-

tion and mitigation through high-precision observations of the Earth's atmosphere and surface, together with data-driven analysis and prediction.

In Space Environment, we develop technologies that support the stable use of electromagnetic waves in space and on Earth, as well as critical infrastructure such as communications and positioning systems, through observation and forecasting of the space environment, including solar activity.

In Digital Optics, we advance technologies that leverage the refraction and diffraction of light to enhance optical communications and enable innovative sensing and visualization.



Electromagnetic Technologies Powering Social Infrastructure

Leveraging state-of-the-art atomic clock technology, we conduct research into the generation of precise standard time, as well as into spatial measurement technologies. We also support the safe and reliable use of electromagnetic waves by ensuring electromagnetic compatibility.



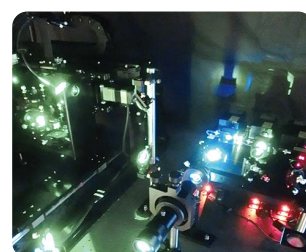
Observing the Earth's Atmosphere and Surface Using Radio Waves and Light

We are promoting research and development of remote sensing technologies that sustain Earth environmental monitoring, including high-precision forecasting of heavy rainfall, ground-surface observations during disasters, and global environmental measurement using satellite-borne radar.



Understanding Space Weather Through Monitoring and Forecasting

Through the advancement of space environment monitoring, forecasting, and warning technologies, we contribute to the stable use of electromagnetic waves in space and on Earth while supporting critical infrastructures, such as communications, positioning, aviation, and satellite operations.



Fabrication and Application of Holographic Optical Elements

Through optical design utilizing holographic optical elements (HOEs) and machine learning, we are developing advanced technologies for measuring and controlling light waves and promoting applied research in areas such as optical communications and AR/VR.

02



Innovative Networks Area

Network Architecture Technology / Photonic Network Technology / Optical-Radio Converged Access Technology
Next-Generation Wireless Technology / Space Communications Technology

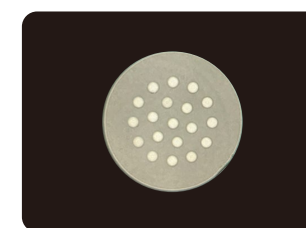
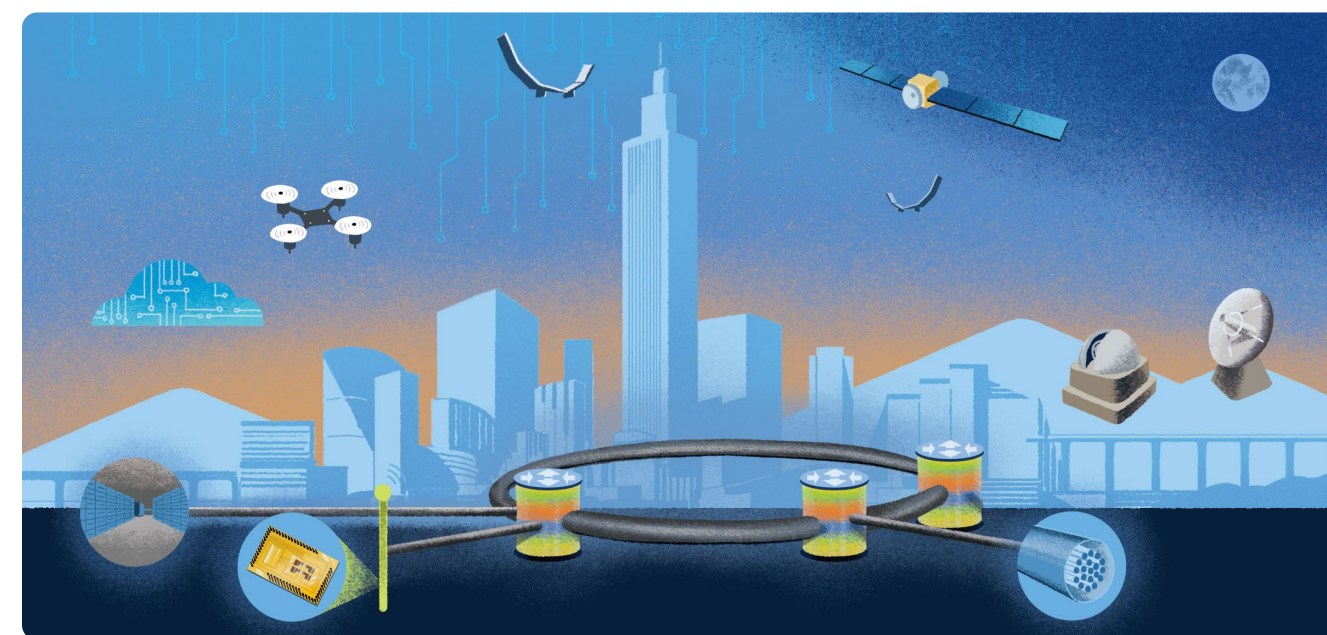
Network Research Institute

Delivering a Safe, Secure, and Comfortable Society Through Ubiquitous, High-Speed, and Reliable Networks

The Network Research Institute conducts research and development on five core network technologies that seamlessly connect domains from Earth to space and enable the high-speed, reliable delivery of information and data, thereby supporting a sustainable, resilient, safe, and comfortable society.

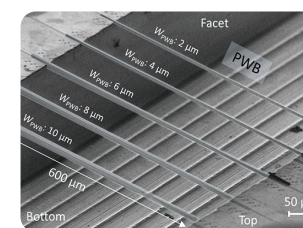
(i) Network architecture technology that integrates communications, computing, and AI to enable automatic configuration as well as flexible maintenance and extension of wide-area networks with high reliability.
(ii) Next-generation photonic network technology that goes beyond handling future data volumes, focusing instead on efficient network utilization, operational stability, and sustained communication capabili-

ties. (iii) Next-generation optical-radio converged access technologies that enable energy-efficient operation, efficient resource utilization, and reliable data transmission through the integration and convergence of functions in ultra-compact devices. (iv) Next-generation wireless technology that makes intelligent and efficient use of limited spectrum resources to establish the foundation for future wireless systems offering both high efficiency and reliability. (v) Space communications technology that enhances the scalability and transmission capacity of wide-area networks spanning Earth and space, enabling seamless connectivity anytime and anywhere.



19-Core Optical Fiber with Standard Cladding Diameter

Using 19-core optical fibers with a standard cladding diameter and optical amplification technology enables high-capacity, long-distance optical fiber transmission at 1 petabit per second over 1,800 km, contributing to the realization of an optical communications infrastructure capable of supporting future communications demand.



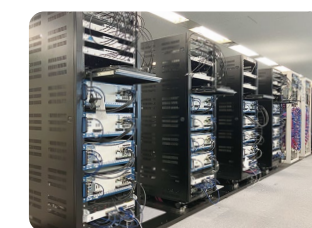
3D Integrated Photonic Devices

Three-dimensional fabrication technology using photocurable resins enables high-density 3D integration of heterogeneous photonic devices with high-precision, low-loss optical interconnections. This technology is expected to enhance the functionality of integrated photonic devices and expand their application areas.



2m Optical Ground Station

The 2-meter Optical Ground Station at the Kashima Space Technology Center serves as an optical antenna for demonstrating ultra-long-distance optical communications, including communications with the Moon, utilizing the largest single-mirror aperture in Japan.



Next-Generation Wireless Evaluation Platform

This platform accurately reproduces diverse radio propagation environments on the ground, including the movement of people and objects, building obstructions, and radio-wave interferences, enabling comprehensive evaluation of next-generation wireless systems.



03



Cybersecurity Area

Cybersecurity Technology / AI×Cybersecurity Technology
Next-Generation Cryptography and Privacy Protection Technology / Cybersecurity Trainings
Promotion of Industry-Academia-Government Collaboration / Promotion of Cybersecurity Measures for IoT Devices

Cybersecurity Research Institute

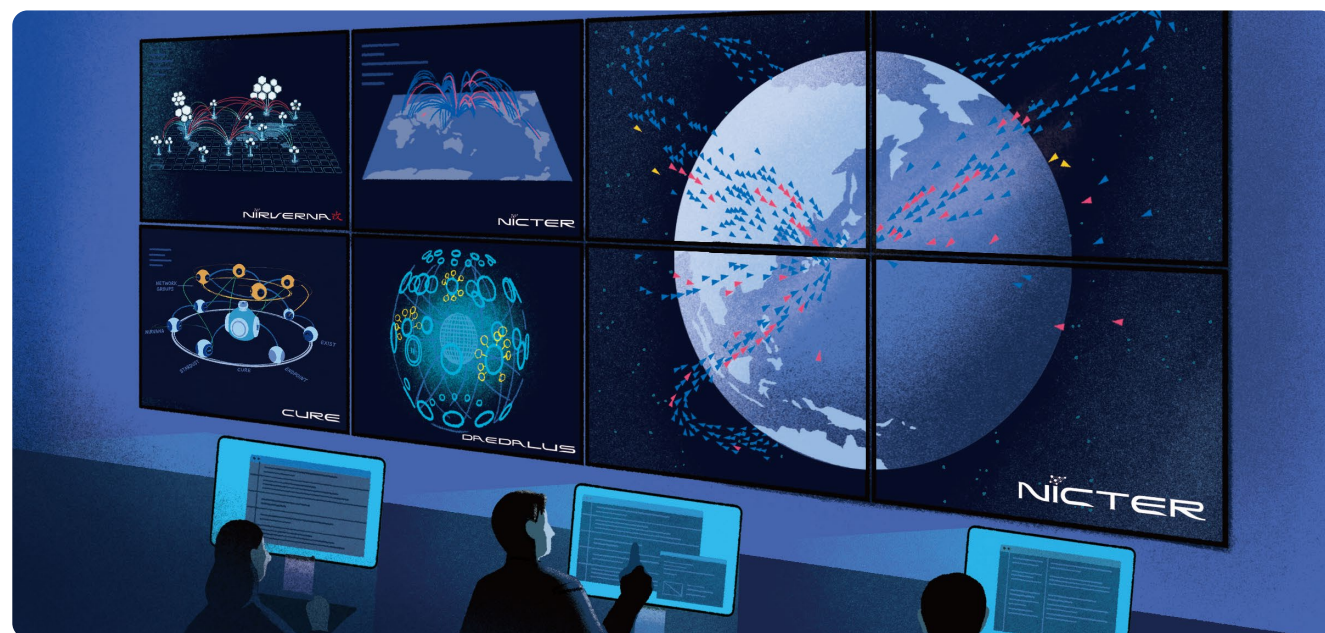
Protecting Japan and Its Future from Cyberattacks

At the Cybersecurity Research Institute, we conduct integrated research and development, encompassing ranging from identifying cyber threats to developing countermeasures, reflecting the changing landscape of cybersecurity and recent trends.

We are promoting the development of practical technologies, such as visualization and the automation of countermeasures based on the monitoring and analysis of cyberattacks, as well as the advancement of AI-driven security measures (AI for Security) and research and development of technologies to protect AI itself (Security for AI). Moreover, we are strengthening the foundational technologies of information security, including the research, development, and security evaluation of

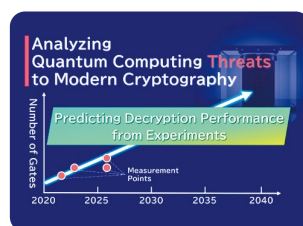
post-quantum cryptography, in preparation for the era of quantum computing. In addition, we are working to promote countermeasures through investigations into vulnerable IoT devices and public awareness campaigns regarding their risks, as well as to foster cybersecurity professionals.

As a hub connecting industry, academia, and government, we are forming an ecosystem for fostering professionals and technology by publishing the latest cyberattack analysis results, providing a shared platform for human resource development, evaluating domestic security products, and more. We contribute to strengthening Japan's cyberattack response capabilities and improving its cybersecurity resilience.



Capturing the Current State of Cyberattacks in Real Time

Through the monitoring, analysis, and visualization of various cyberattacks, as well as the collection and analysis of threat information issued by domestic and international organizations, we are working to accurately grasp the nature of cyberattacks unique to Japan.



Tackling Threats Posed by Quantum Computers through Cryptographic Research

To establish a secure cryptographic infrastructure, we conduct research, development, and security evaluations of next-generation cryptographic technologies, including post-quantum cryptography and privacy-preserving technologies. We also maintain and manage the cryptographic technologies widely used in Japan.



Cybersecurity Measures for IoT Devices

In order to improve cybersecurity for IoT devices, we are conducting investigations into vulnerable devices and malware-infected devices, providing information to users and manufacturers, and promoting research and development into new observation methods and other technologies.



Cybersecurity Paving the Way for the AI Era

We are driving research and development in "AI for Security," which leverages AI to extract insight for security operation in real time, and "Security for AI," which assesses and evaluates the safety of AI models and AI-enabled systems.

04



Universal Communication Area

AI Complex Technology / Multimodal AI Communication Technology

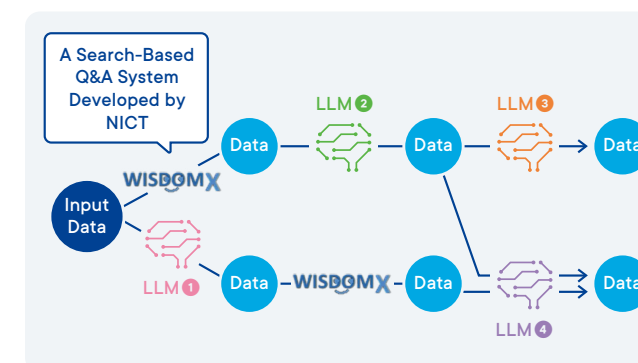
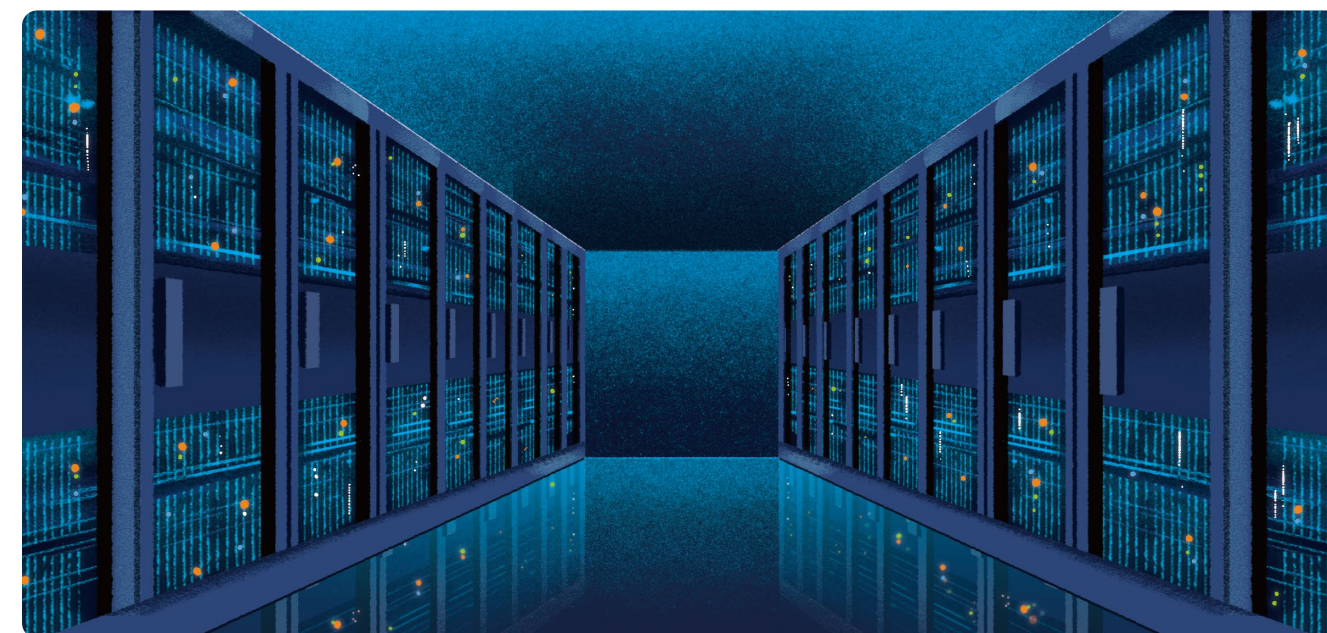
Universal Communication Research Institute

Enabling More Advanced and Enriching Communication Through AI

At the Universal Communication Research Institute, we are conducting research and development on AI and XR technologies to overcome challenges arising from communication barriers, such as language and cultural differences, and physical distance. At the core of this is AI complex technology, which combines large language models (LLMs) with a deep understanding of the Japanese language, culture, and society, along with various other AI technologies, as well as multimodal communication technologies that integrate and handle different types of information, such as audio, images, video, and sensor data.

When people try to understand a situation, they make a comprehensive assessment based on factors such as what the other person is

saying, their facial expressions, culture, the surrounding environment, and social background. At NICT, we are conducting research and development on AI that can flexibly interpret context and situations based on this model of human understanding, thereby aiding people's decisions and actions and enabling rich communication even when people are in different locations. At the same time, we are researching and developing mechanisms that use diverse AI models to evaluate and improve the behavior of AI itself. As the use of AI developed overseas continues to expand, we aim to address social issues using safe and secure AI that resonates with Japanese culture and values.



AI Complex Technology

This is a core technology that underpins the Active LLM Evaluation Platform for automated assessment of LLM outputs. It orchestrates diverse AI systems, including LLMs, to operate in parallel and asynchronously while sharing information, enabling levels of reliability, creativity, and diversity beyond the capabilities of any single LLM.

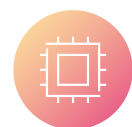


Multimodal AI Communication Technology

This technology transcends not only language barriers but also cultural and real-world/virtual barriers to promote mutual understanding between people. Therefore, by utilizing various types of data such as text, images, and video, it enables the translation and communication of not only language but also nonverbal information, including gestures and mannerisms.



05



Frontier Science Area

Advanced ICT Foundational Technology / Frontier ICT Technology / Bio-Inclusive ICT Foundational Technology
Brain Information and Communications Foundational Technology

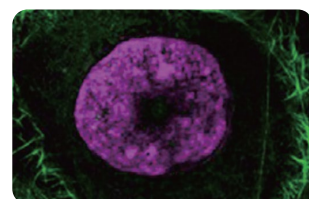
Advanced ICT Research Institute

Pioneering the Future of ICT Through Cutting-Edge and Fundamental Research

Guided by the philosophy of breaking new ground in information and communications technology (ICT), the Advanced ICT Research Institute is engaged in cutting-edge and fundamental research on devices, materials, quantum technology, biotechnology, and neural information as well as developing new concepts and frameworks that will serve as the foundation of ICT, thereby paving the way for a prosperous, safe, and secure future society.

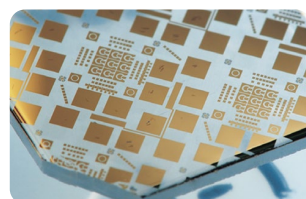
Meanwhile, it has become clear that while the advancement of ICT enriches our lives, it also gives rise to challenges such as the diversification and rapid increase in the volume of information on networks, the

resulting rise in power consumption, growing security risks, and supply issues related to scarce resources. In order to fundamentally resolve these challenges, instead of simply prolonging the technology we're currently using, research is needed to generate new technologies, materials, and methods based on entirely new ways of thinking and academic principles, as well as the innovations that lie beyond them. At NICT, to create innovative ICT paradigms for the society of the future 10 or 20 years from now, we are returning to the fundamentals and conducting broad-ranging, phased research and development from a long-term perspective.



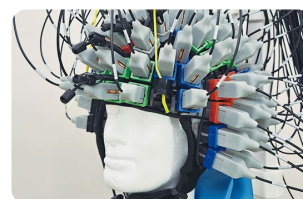
Bio-Inclusive ICT Foundational Technology

By conducting research on the acquisition and processing of biological information and on interface technologies, we are creating information and communications technologies that work alongside people and the environment, with the aim of building a next-generation ICT foundation that incorporates living organisms.



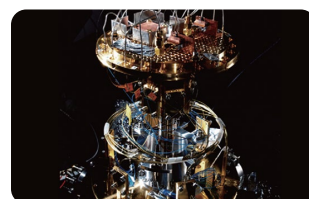
Advanced ICT Foundational Technology

We carry out research and development on device technologies toward the practical application of terahertz wireless communications and wireless communication devices for harsh environments, as well as on improving the security and sophistication of the quantum key distribution networks, and foundational technologies for the realization of a quantum internet.



Brain Information and Communications Foundational Technology

By integrating the measurement and analysis of brain activity, behavior, and mental states with ICT, we strive to deepen our understanding of human brain functions and aim to realize new forms of seamless human-centered communication connecting people and ICT systems.



Frontier ICT Technology

As part of cutting-edge research that tackles new frontiers in ICT, we are developing pioneering ICT devices using emerging technologies such as superconductive ICT device, nano-scale functional assembly ICT device, and deep-ultraviolet ICT device.



Public Services

NICT utilizes the results of cutting-edge ICT research to provide a variety of services that uphold social infrastructure.



Japan Standard Time

Japan Standard Time is widely used throughout Japan as the reference time for radio-controlled clocks, NTP servers, and other systems. NICT generates Japan Standard Time with high accuracy by integrating various atomic clocks, distributes it via standard radio waves and the Internet, and continuously works to further improve its accuracy.



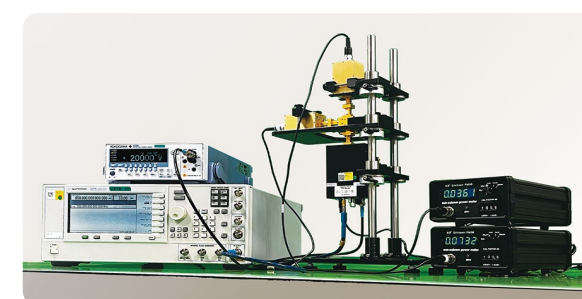
Space Weather Forecast

When solar flares occur on the Sun's surface, electromagnetic waves, radiation, and electrically charged gas reach Earth, which can cause disruptions to communications, satellites, and other systems. We continuously monitor and forecast these space environment conditions, distribute daily space weather forecasts, and are working to further advance these technologies.



Calibration of Measuring Instruments for Wireless Equipment

In order to ensure the reliability of inspections and tests of wireless equipment required under the radio station licensing system, we provide calibration services for various measuring instruments. As the organization responsible for calibration standards under the Radio Act, we calibrate frequency standards and high-frequency power meters with high precision, thereby contributing to the fair and efficient use of radio waves.



Cyber Exercise Operations

As part of our efforts to enhance society's cybersecurity, we conduct "CYDER," a practical cyber defense exercise. By harnessing NICT's technical expertise and large-scale computing environment, we provide exercise services to national agencies, local governments, and critical infrastructure operators.



Development of Young ICT Talent

We run training programs such as SecHack365, which trains young individuals capable of driving innovation in security technology research and development, and the NICT Quantum Camp (NQC), which trains professionals to lead the field of quantum ICT, a technology garnering attention as the future of science and technology.



01 Resilient ICT Foundational Technology

Phase-Free ICT That Supports Society in Both Everyday Life and Emergencies

"Resilient" means "strong yet flexible." We are conducting research and development aimed at realizing "phase-free" information and communications infrastructure that seamlessly supports society across all conditions as well as continuously and flexibly adapts to changing circumstances, from normal conditions to disasters and system failures. We collaborate with other organizations to conduct research, development, and social implementation of technologies that enable robots to autonomously reroute their movement and communication paths based on predicted failure risks, sensing and analysis technologies for the rapid detection of natural disasters, and technologies for the reliable collection and dissemination of disaster-related information.



02 Beyond 5G Architecture Technology

Building a Platform That Bridges the Cyber and Physical Worlds

To build an information and communications platform that achieves a high level of integration between cyberspace and the physical world, we conduct research and development on architectural design technologies that enable cross-sector system interoperability. In addition, with ultra-high-frequency IoT using millimeter-wave and terahertz waves and space-time synchronization at its core, we are promoting demonstration research on systems and services for the Beyond 5G era, leading to solutions for societal challenges and the creation of new value. Moreover, we are comprehensively pursuing the research, development, and standardization of wireless technologies that can be used with confidence in industrial machinery.



03 Terahertz-Wave ICT Platform Technology

Aiming to Realize Ultra-High-Speed, High-Capacity Communications That Will Serve as the Foundation for the Future

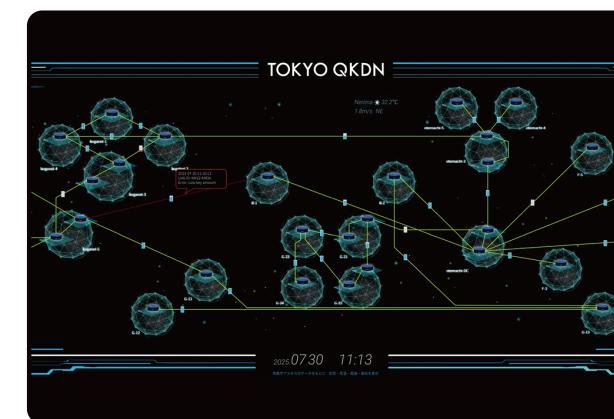
Terahertz waves, with their extremely short wavelengths (approximately 3 mm to 30 μm), are highly directional radio waves that have potential to enable ultra-high-speed, large-capacity wireless communications. At NICT, we are actively conducting research and development on both terahertz-wave-based wireless communication technologies and terahertz-wave safety assessment technologies, and have successfully demonstrated video transmission at 300 GHz. We are also promoting international standardization activities, including spectrum allocation. In addition, we are advancing research and development of terahertz-wave-based remote sensing technologies to enable a wide range of applications.



04 Global Quantum-Secure Network Technology

Enabling Secure Communications and Data Storage Using Quantum Technology

We are promoting the research, development, and social implementation of quantum key distribution network technology, which utilizes quantum mechanics to enable encrypted communications that cannot be decrypted by any computer, as well as quantum-secure cloud technology, which allows for the secure storage of data. Further, we strive to integrate these technologies with widely used information network technologies and extend the range of quantum key distribution technology using satellites, with the goal of establishing a society where secure quantum communications are available worldwide.



05 Testbed Construction Technology for the Beyond 5G Era

Constructing an Experimental Environment for New Communication Systems and Services

We conduct research and development on testbeds (experimental environments that closely resemble real-world conditions) for the development and validation of communication systems and application services in the Beyond 5G era. Through research and development into technologies that virtually recreate physical environments in cyberspace, network emulation technologies that reproduce real-world environments with high accuracy and on a large scale, and technologies that integrate communications and computing, we aim to seamlessly integrate diverse technologies from within and outside NICT, enabling advanced testbeds for the development and validation of cutting-edge technologies.



06 Advanced ICT Device Development Platform Technology

Providing a Research and Development Hub for State-of-the-art ICT Devices

We operate and provide safe and efficient cleanroom facilities for the research and development of state-of-the-art ICT devices, functioning as a hub for open innovation. By operating the Advanced ICT Device R&D Promotion Center, which is capable of processing and measuring a wide variety of devices based on various types of material systems and device structures, we develop and accumulate advanced technical expertise, which we then leverage to enhance the capabilities of the device center.

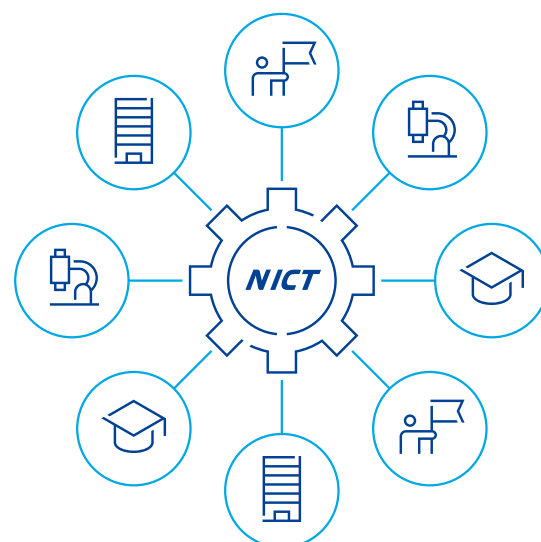


01 / Innovation Hub

A Core Hub for Innovation Bridging Industry, Academia, and Government

By providing external research institutions, such as companies and universities, with access to some of NICT's research facilities and equipment, as well as the vast amounts of data generated through NICT research, we aim to accelerate innovation originating in Japan.

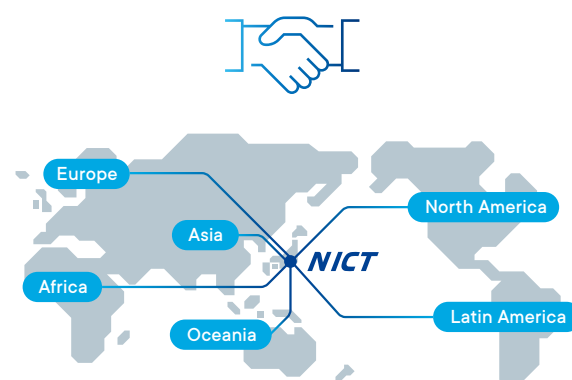
Moreover, to address societal, industrial, and regional issues, we widely share our research findings and promote social implementation. As a core hub for innovation that bridges industry, academia, and government, we connect people with technology and match ideas with needs. Through the creation of new values leveraging intellectual property, we also contribute to the development of Japan's ICT industry and the realization of a prosperous digital society.



02 / Global Research Strategy

Transforming Research into Global Value

As part of our global research strategy, we aim to create global value by disseminating research outcomes worldwide and promoting international collaboration, standardization, and social implementation. Through strategic international partnerships tailored to specific research fields, countries, and regions, as well as by building global research networks and sharing research outcomes internationally, we contribute to enhancing NICT's international presence and strengthening its global leadership.



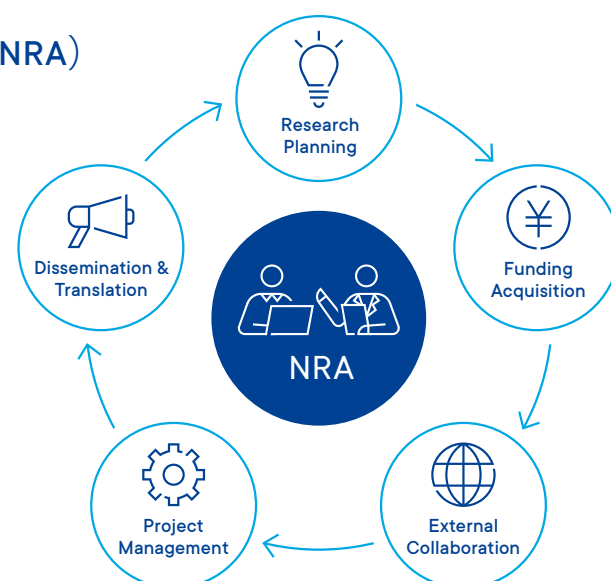
03 / NICT Research Administrator (NRA)

Partnering with Researchers to Drive Innovation

NRA professionals are specialists who facilitate the technology transfer of NICT's R&D outcomes and the planning and management of R&D activities. With a broad, strategic view of the research landscape, they partner closely with researchers and foster seamless collaboration among stakeholders across NICT, contributing to the creation of innovation.

Through these efforts, they support the acquisition of the research funding, advancement of projects, and the dissemination of the research outcomes, thereby contributing to project success and, ultimately, to enhancement of R&D capabilities and fostering innovation.

In addition, they collaborate with companies, universities, research institutions, and government agencies to jointly envision the potential applications of research outcomes, helping to socially implement NICT's R&D achievements and create new industries and services.



Funding

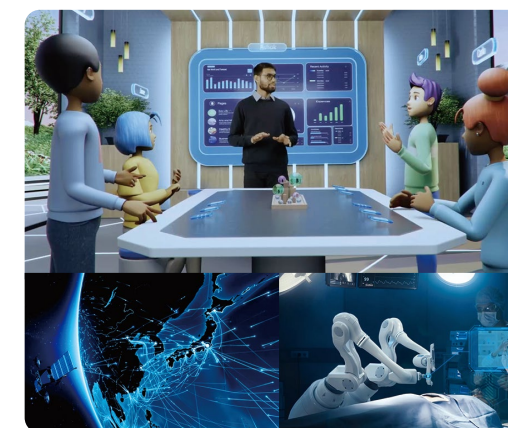
NICT supports the research and development of next-generation ICT through both technological expertise and funding.

Leading the Way into the 6G Era Through Research and Development Support and International Collaboration

NICT has issued a call for research proposals for the next generation information and communications infrastructure Beyond 5G research and development project, and is allocating research funding to private companies, universities, and other organizations that have submitted outstanding proposals.

Specifically, we are promoting research and development aimed at strengthening Japan's international competitiveness and ensuring economic security, with a focus on technological fields such as all-optical networks, non-terrestrial networks (NTN), as well as secure virtualized and integrated networks.

Furthermore, with the growing momentum for international standardization activities aimed at the realization of 6G, the next generation mobile communication system expected around 2030, we are strengthening global collaboration by initiating international joint research projects between Japan and leading countries and regions, including the United States and Europe.



Accelerating the Social Implementation of Research Findings Through Tailored Support

Through our funding to date, we have achieved world-first technological breakthroughs in communication technologies (such as 5G-NTN and HAPS) that utilize highly disaster-resilient satellites and unmanned aerial vehicles, while also successfully establishing international standards through ICT standardization bodies (such as 3GPP and ITU-R).

NICT will continue to provide comprehensive support by leveraging its extensive human network to maximize the impact of our research, including the social implementation of Beyond 5G and its global expansion. In addition, we will offer hands-on support through measures such as dispatching intellectual property and standardization advisors tailored to the status of individual projects, as well as conducting a wide range of public relations activities.

NICT also provides a wide range of support to startups, small and medium-sized enterprises, and companies outside the telecommunications industry. While working to build communities both in Japan and abroad, NICT contributes to the creation of new industrial sectors through funding.



Innovative ICT Fund Projects for Beyond 5G/6G

- ✓ Strategic Program for Social Implementation and Global Deployment
- ✓ Program for Elemental Technologies and Seeds Creation
- ✓ Program for Research and Development of Effective Utilization of Radio Spectrum

This program conducts research and development projects to achieve social implementation and global expansion, focusing on technological fields in which Japan has strengths.

This program addresses research and development (including international joint research) aimed at establishing elemental technologies and creating technology seeds that require a certain amount of time until social implementation and are pursued from a medium- to long-term perspective.

This program focuses on the research and development of technology that contributes to the effective use of radio frequencies.

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the digital edition



NICT's Character “N”

Our official character “N” featured on the cover is a multifunctional personal AI envisioned for development in the near future, incorporating a wide range of technologies developed by NICT. It features capabilities such as generative AI, simultaneous interpretation, high-performance communications, and cyber-security tools.

