



**Advanced Telecommunications
Research Institute International**



Innovative Technology for Human Communication

Together to the Top for Future Society

Address challenges through pioneering research
and innovation in ICT-related fields



Our Value

- Drive innovation ecosystem as a research institution
- Tackle both social and exploratory challenges*
- Produce visionaries and pioneers

* Exploratory challenges:
Ones where researchers themselves lead and confront



Our Culture

- Elevate external collaboration and personnel exchange
- Pursue value with an international perspective
- Be a leading player in Keihanna Science City



Greeting

ATR unveils its new corporate identity after 37 groundbreaking years (https://www.atr.jp/about/atr_e.html). Embracing the rapid pace of ICT research, we are pivoting toward rebirth as a dynamic institution committed to tackling societal challenges and nurturing innovation, while still advancing our foundational pursuits.

Japan must grapple with a stark reality: Half its workforce languishes as non-regular employees, often denied avenues for growth. The consequent decline in skills not only imperils individual fulfillment but also undermines socio-economic stability. The imperative of digital transformation with workstyle reform lies in confronting this pressing societal dilemma head-on.

Even in the popular fervor of the third AI boom, catalyzed by generative AI, fears of the singularity loom large. But our focus must transcend mere technological prowess. We envision a society where each individual harnesses and masters such ongoing advancements, unlocking boundless human potential and fostering a life of brilliance.

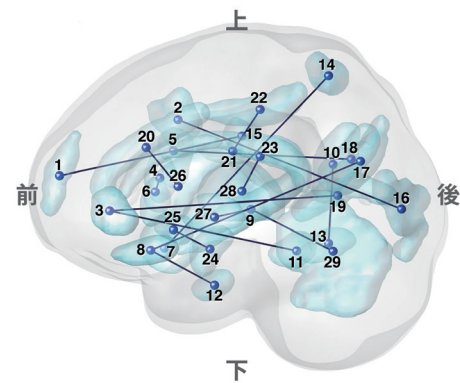
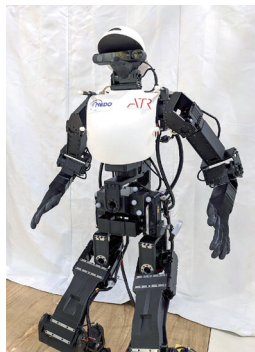
At the Osaka-Kansai Expo, ATR will champion the concept of an avatar-symbiosis society. Pioneering a harmonious coexistence between science, technology, and humanity, we are embarking upon a journey of true innovation. Join us as we shape the future together.

To our supporters and well-wishers, we extend our heartfelt gratitude. Your unwavering encouragement fuels our mission and propels us toward greater heights.

Tohru Asami, President
July 2024

Computational Neuroscience

Utilizing Deep Tech inspired by our knowledge of brain functions, and connecting the brain to machines, to form the basis for innovative technologies accessible to all.



CNS

Computational Neuroscience Laboratories

- Toward understanding brain function using a computational approach -

We aim to understand brain functions through computational modelling, and develop Brain Machine Interfaces (BMI) leading to improved artificial intelligence (AI), humanoid motor learning algorithms, and clinical applications, such as for the recovery of motor and cognitive functions in humans.

CMC

Cognitive Mechanisms Laboratories

- Toward Understanding High-Order Brain Functions -

We investigate the mechanisms for high-order brain functions by utilizing advanced technologies for the measurement of brain activity as well as manipulation of brain activity based on neurofeedback. Our results enhance human communications and the development of natural human-machine interfaces.

NIA

Neural Information Analysis Laboratories

- Toward Co-evolution of Brain and Artificial Intelligence with Machine Learning-based Methodology -

We aim to develop methods to understand brain functions-based statistical science and machine learning, understand similarities and differences between brain and AI, and lead to the development of novel AI technologies-based brain science.

Deep Interaction Science

We are dedicated to deeply understanding the interactions between humans, robots, and avatars for a harmonious and comfortable society where robots and avatars coexist with humans.



ITB

Interaction Technology Bank

- Social Implementation of Deep Interaction Science -

We are conducting joint research with various companies to socially implement research results of Deep Interaction Science to create services and products that enrich people's lives.

HIL

Hiroshi Ishiguro Laboratories

- Studies on Androids Living together with Humans in the Real World -

We develop autonomous social robots / androids that can communicate with affinity to persons in social context, and study to facilitate human's active life by robots and avatars.

ISL

Interaction Science Laboratories

- Science and Technology for Cognitive Interaction with Network Robots -

We are exploring a principle of cognitive interaction through R&D of network robots that has social intelligence. We are dealing with social-touch and moral interaction of robots, and active social participation with Cybernetic Avatars.

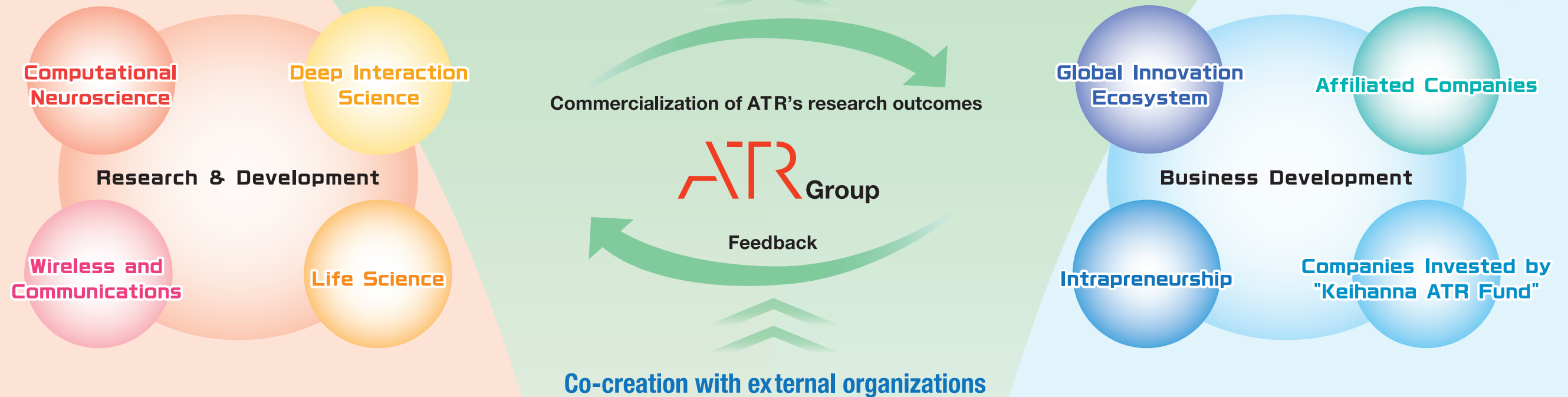
NHL

Norihiro Hagita Laboratories

- Exploring Deep Interaction Science Research Areas -

We are exploring new research areas in collaboration with researchers from different fields to indicate the potential of Deep Interaction Science.

With world-leading, cutting-edge research achievements and their applications to society,
the ATR Group pursues innovations based on science & technology
and contributes to regional revitalization.



Wireless and Communications

From a user-centric perspective, we aim to develop wireless and communications technologies that are adaptable to any environment and enable safe and reliable communication, as well as to create advanced applications of radio waves.

ACR Adaptive Communication Research Laboratories
- Safe and reliable telecommunications in any environment -

We are conducting R&D of wireless and communications technologies that adapt to all environments, from living spaces to offices and factories, as well as advanced security technologies that protect privacy and form the foundation of trust worthy human life.



WEL Wave Engineering Laboratories
- Toward a prosperous future pioneered by radio wave and telecommunications technology -

To realize a secure and prosperous future society, we tackle R&D aiming at creating new advanced technologies and expanding application areas in the field of radio wave and communication technologies.

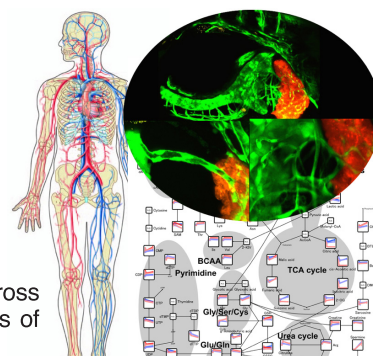


Life Science

Our research team aims at deciphering biological mechanisms of our nature by focusing on cross-talks among multiple organs to maintain homeostasis.

TNSL The Thomas N. Sato BioMEC-X Laboratories
- Realization of "Virtual Live Clinics" -

The ultimate goal of our research is to realize healthy and long-lasting life style. We undertake cross (X) -disciplinary approaches towards this challenge by integrating concepts and methodologies of Biology, Medical science, Mathematics, Engineering and Computational sciences: BioMEC-X



Companies Invested by "Keihanna ATR Fund" *Kansai Science City ATR-Venture NVCC Investment Limited Partnership

Keihanna ATR Fund* established in 2015 has invested start-up companies so far. ATR aims to accelerate the business development of its R&D outcome and contribute to the growth of startup companies through joint R&D, technology licensing and support to them. Through nine years of activity, the Keihanna ATR Fund has begun to produce tangible financial results, including the listing of its investee startup on the Tokyo Stock Exchange.

Blue innovation Co., Ltd.

Blue innovation delivers drone-based solution services based on Blue Earth Platform, an application of ATR's Ubiquitous Network Robot Platform (UNR-PF). The company was listed on Tokyo Stock Exchange in December, 2023.



ANYCOLOR Inc.

ANYCOLOR runs VTuber management business. It collaborates with ATR in the development of next generation VTuber based on multiple modalities. The company was listed on Tokyo Stock Exchange in June, 2022.



Telenoid Healthcare Company
Telenoid+
Telenoid Healthcare Company

Yukai Engineering Inc.
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・E・N・G・I・N・E・E・R・I・N・G・

FIT Co., Ltd.
Future Information Technology
株式会社 フィット

Supreme System Co., Ltd.
supreme

Aidea Inc.
Aidea

A. I. Viewlife co. Ltd.
A.I. Viewlife

WaveArrays Inc.

BackTech Inc.

Logbar Inc.
Logbar

XNef, Inc.
XNef

SmartScan, Inc.
Smart Scan

REVISIO Inc.
REVISIO

ATR-Incubator Inc.

Affiliated Companies

Business affiliates were established to commercialize products and services based on ATR's research outcomes. They have served as the core agents of commercialization in the ATR Group and have achieved successful results since 2004.

ATR-Promotions Inc.

Our missions are to develop and to market products relating to speech and sensor technologies developed by ATR. We also provide services to support advanced neuroimaging research.

ATR-Promotions



ATR Learning Technology Corp.

We develop "ATR CALL", which is the e-learning system for foreign language learning. We also develop the accented speech evaluation technique embedded in it. Products are introduced to schools through Uchida Yoko Co., Ltd.



*ATR CALL is registered trademark of ATR.

ATR-Trek Co., Ltd.

We promote speech recognition and translation technologies by combining speech recognition technologies of ATR and embedded software of FueTrek Co., Ltd.

ATR-TREK



Global Innovation Ecosystem

Initiatives to build an extensive collaborative network with innovation organizations and universities around the world and to develop a global innovation ecosystem in Keihanna Science City.

Global Collaboration Network

Aiming to form a commercialization platform from the perspective of a research institute, we are enhancing our global collaborative networks for R&D, incubation, and acceleration, and organically linking them to create a "Global Deep Tech Innovation Network".

Support for startups

"KGAP+", a support program for startups nominated by partnering domestic and international innovation organizations, is implemented to assist startups in finding partners for product and service implementation, business growth, and in establishing a foothold for expansion outside of Japan. "KGAP Explore", which supports R&D seeds of ATR and other companies for commercialization and market research in Japan and overseas, has also been launched. "KOSAINN/KOSAINN+", which supports open innovation in resolving issues, is continued.

KGAP+ : Keihanna Global Acceleration Program Plus
KOSAINN : Keihanna Open Global Service Platform for Accelerated Co-Innovation



Intrapreneurship (Partial only)

Directors engage in innovation creation through their own entrepreneurial efforts for social implementation of research outcomes and business development.

XNef, Inc.

XNef, established in 2017, develops diagnostic and therapeutic equipment, software, etc. applying the decoded neurofeedback (DecNef), research outcomes of Brain Information Communication Research Laboratory Group. CEO – Mitsuo Kawato, Ph.D. (Director of BICR and ATR Fellow)

XNef

XBorder Innovations, Inc.

XBI, established in 2021, drives open innovation and startup support that enhances the global innovation ecosystem ATR is building. CEO – Hiroyuki Suzuki, Ph.D. (Senior Executive Vice President, Representative Director, and Director of Planning & Innovation Co-Creation Unit)

XBorder Innovations

AVITA, Inc.

AVITA, established in 2021, develops and provides an avatar online customer service, AVACOM, utilizing R&D outcomes in avatar by Deep Interaction Laboratory Group and Osaka University. CEO – Hiroshi Ishiguro, Ph.D. (Visiting Director of Hiroshi Ishiguro Laboratories, ATR Fellow and Professor of Osaka University)

AVITA

Neiglobe Networks, Inc.

Neiglobe Networks, established in 2022, develops a portable local information communication system "LACS", based on research outcomes of Wave Engineering Laboratories. LACS enables users to contact and share information with people nearby as if they were using a smartphone or browser for SNS. CEO – Toshikazu Sakano, Ph.D. (Director of WEL)

neiglobe

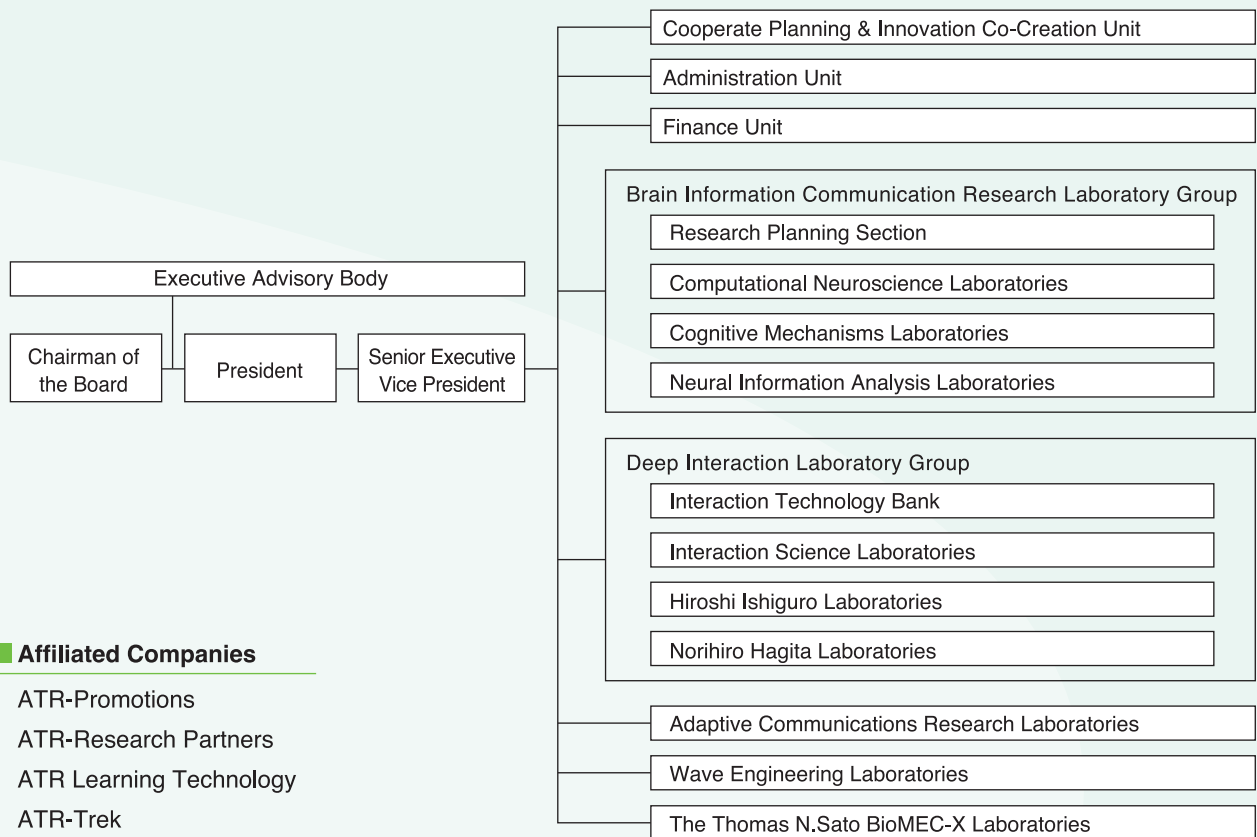
● Company Profile

Foundation	March 1986 1989	Foundation of ATR Move to present location
Capital	100 million yen (Capital Surplus: Approx. 21,900 million yen)	
Shareholder Composition	110 companies including NTT and KDDI	
Location	2-2-2 Hikaridai Seika-cho, Soraku-gun, Kyoto 619-0288 Japan (Kansai Science City)	
Employees	245 people (including 163 researchers) Breakdown of researchers: Contract researchers 94%, Loan researchers 4%, Permanent researchers 2%, International researchers 13% (as of April 1, 2024)	

● Main Board Members

Chairman of the Board	Hiroshi Matsumoto
President	Tohru Asami
Senior Executive Vice President	Hiroyuki Suzuki
Advisor of the Board	Masayoshi Matsumoto

● Organization



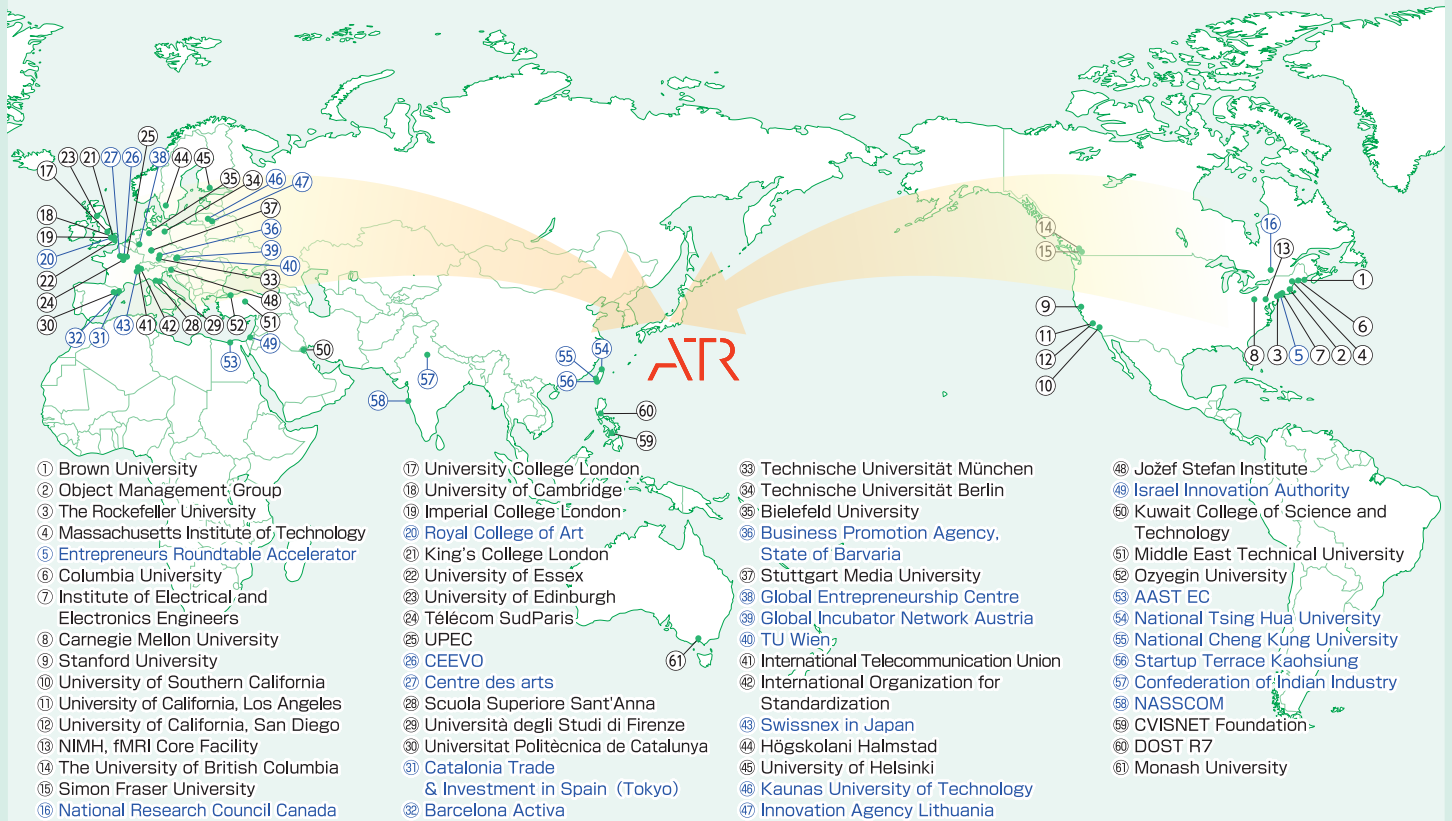
■ Affiliated Companies

ATR-Promotions
ATR-Research Partners
ATR Learning Technology
ATR-Trek

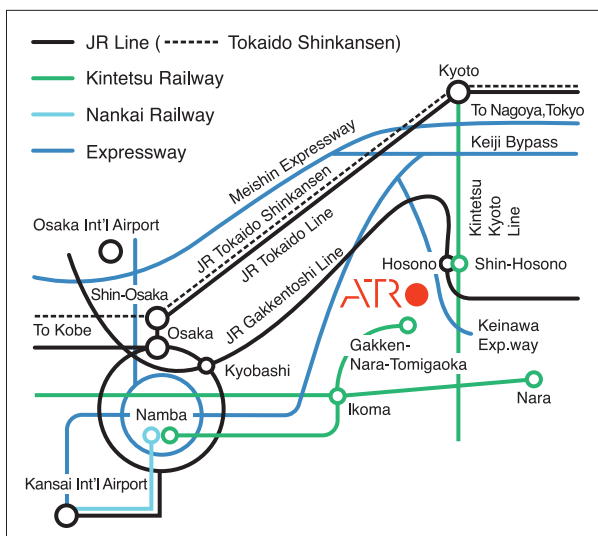
● ATR History

March	1986	Foundation of Advanced Telecommunications Research Institute International
April	1986	Foundation of four laboratories regarding Interpreting Telephony, Communication Systems, Auditory and Visual Perception, Optical and Radio Communications
April	1989	Opening of full-scale laboratories (The first institute established in Kansai Science City, "Keihanna")
October	2001	Change of funding scheme (Invested research to funded research scheme)
November	2004	Foundation of "ATR-Promotions," a subsidiary for commercialization
April	2006	Change of funding scheme (Transition to multi-funding system)
May	2007	Foundation of "ATR-Trek", the first joint company
January	2014	Foundation of specialized laboratories (Enhancing open innovation)
June	2014	Establishment of Business Development Office (Driving commercialization of research outcomes and creation of ecosystem)
May	2023	Development of corporate identity "Together to the Top for Future Society "

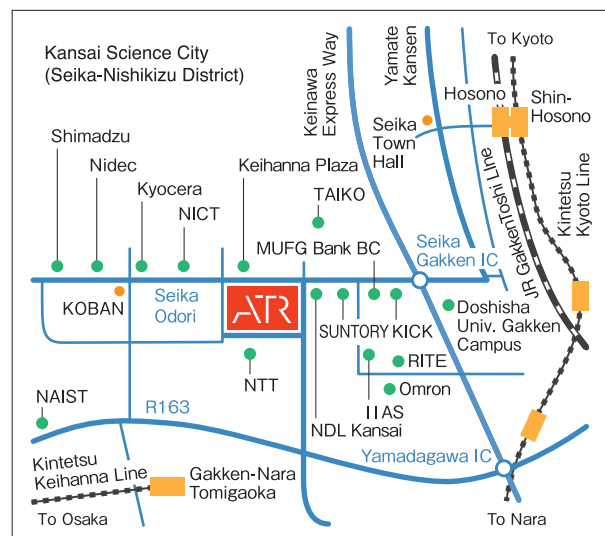
Global Collaboration Network



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At Gakken Nara Tomigaoka Sta., of Kintetsu Line,
Take Nara-kotsu bus #56 or #59 and get off at "ATR" stop
(about a 15-minute ride).



At Shin-Hosono Sta. of Kintetsu Line,
or Hosono Sta. of JR Gakken-Toshi Line,
Take Nara-kotsu bus #36, #46, #47, #56, #58, or #59 and get off at "ATR" stop
(about a 15-minute ride).

Advanced Telecommunications Research Institute International

2-2-2 Hikaridai Seika-cho, Soraku-gun, Kyoto 619-0288 Japan (Kansai Science City)

TEL +81 774 95 1111 / FAX +81 774 95 1108

URL: https://www.atr.jp/index_e.html

