What is the Super Smart Society Promotion Consortium?

The Super Smart Society Promotion Consortium was established to co-create a next-generation society-collaborative education and research platform that integrates HRD (human resource development) and R&D (research and development) through the collaboration of industry, government, and academia, with the aim of cultivating leaders who will support the upcoming super-smart society (Society 5.0). This consortium is led by four committees New industries incubation, Social Collaborative Education Committee, Interdisciplinary Research Promotion Committee, Global Alliance Committee, which plan and promote various activities.

Organization Chart and Each Activity

New Industry Incubation Committee

- New industries incubation by Industry-Government-Academia Collaboration Networking
- Planning and operating super smart society promotion forums, etc.
- Social enlightenment by providing one-day schools and online education

Social Collaborative Education Committee

- Human resource development in collaboration with the excellent curricula of WISE Program for Super Smart Society
- Holding and opening of Courses on Super Smart Society Innovation

Interdisciplinary Research Promotion Committee

- Holding matching workshops to establish joint research teams
- Establishing super smart society education and research fields
- Planning open innovation projects and establishing systems

Global Alliance Committee

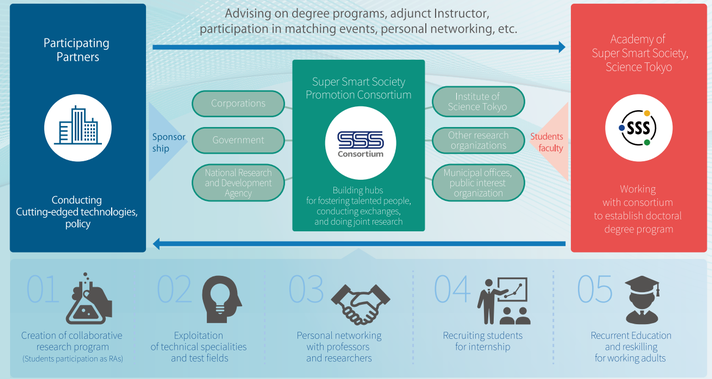
- Collaboration with companies engaged in global business, international consortia, standardization organizations, and overseas universities

Seven years since our founding in October 2018, our efforts toward realizing and developing a super smart society are steadily yielding results. AI and quantum computers now function as societal infrastructure, making connections between people and society through IT even more crucial. Then, in October 2024, Tokyo Institute of Technology and Tokyo Medical and Dental University merged to form Institute of Science Tokyo, and our next stage of operation has started as “Super Smart Society Promotion Consortium Project 2.0.”
To contribute to scientific progress that genuinely leads to human happiness in response to the rapidly changing composition of human society and the natural environment, we will expand our educational and research partnerships with society beyond traditional science and engineering fields to include healthcare and welfare.
We look forward to your participation.

Koichi Shinoda　Super Smart Society Promotion Consortium Steering Committee Chairperson
Institute of Science Tokyo　Professor, School of Computing

Benefits of Consortium Participation

Members of the Super Smart Society Promotion Consortium can avail the expertise and knowledge of faculty members who are active in various technological fields such as cyberspace, physical space, and quantum science. In addition, members may have access to multiple opportunities such as the creation of interdisciplinary joint research, the exploitation of the research and education fields, and the conduction of internships.



About Us

Responsible person at Science Tokyo

Steering Committee Chairperson	Koichi Shinoda (Professor, School of Computing)
Coordinator	Kei Sakaguchi (Vice President for Research strategy and planning, Dean, Science Tokyo for Super Smart Society / Professor, School of Engineering)
New Industry Incubation Committee Chairperson	Takuya Sakaguchi (Professor for Institute Management, School of Engineering)
Social Collaborative Education Committee Chairperson	Mitsuji Sampei (Professor, Dept. of Systems and Control Engineering, School of Engineering)
Interdisciplinary Research Promotion Committee Chairperson	Nobuhiro Hayashi (Vice President for Professor, School of Life Science and Technology)
Grobal Allaiance Committee Chairperson	Tohru Yagi (Professor, School of Engineering)

Program Leaderships

Quantum science

Realization of quantum computer based on quantum annealing
Hidetoshi Nishimori, Specially Appointed Professor
Quantum Computing Unit,Institute of Innovative Research

Quantum simulation and navigation with cold atoms
Mikio Kozuma, Professor
Quantum Navigation Unit, Institute of Innovative Research

Big data AI

Big data analysis, Modeling, Statistical Physics
Misako Takayasu, Professor
School of Computing, Dept. of Computer Science

Sensor

Cyber space

Coordinated control of drone networks
Takeshi Hatanaka, Professor
Dept. of Systems and Control Engineering, School of Engineering

Theory of Cryptography, Cryptocurrency and Blockchain Technology, Cybersecurity
Keisuke Tanaka, Professor
School of Computing, Dept. of Mathematical and Computing Science

Robot Automated driving

Beyond 5th Generation (5G) cellular networks
Kei Sakaguchi, Professor
Dept. of Electrical and Electron Engineering, School of Engineering

Smart city

Physical space

Robotics, Mechanical design
Gen Endo, Professor
Dept. of Mechanical Engineering, School of Engineering

Functional-continuity Buildings and Cities that withstand Earthquakes
Shoichi Kishiki, Professor
Laboratory for Future Interdisciplinary Research of Science and Technology, Institute of Innovative Research

Consortium Partners (as of September 2025)

University
- Institute of Science Tokyo
- Tokyo University of Marine Science and Technology

Research Institution
- Japan Agency for Marine-Earth Science and Technology(JAMSTEC)
- Information Technology and Human Factors, National Institute of Advanced Industrial Science and Technology (AIST)
- ICT Testbed Research and Development Promotion Center, National Institute of Information and Communications Technology (NICT)
- National Agriculture and Food Research Organization (NARO)
- RIKEN Center for Advanced Intelligence Project (AIP)
- National Institutes for Quantum and Radiological Science and Technology (QST)

Company
- aiwell Inc.
- ITD Lab Corporation
- Azbil Corporation
- aptpod,Inc.
- Idemitsu Kosan Co., Ltd.
- ITOKI CORPORATION
- ACSL Ltd.
- AGC Inc.
- NTT, Inc.
- NTT Urban Solutions, Inc.
- LG Japan Lab Inc.
- ORNIS Corporation
- Kawasaki Heavy Industries, Ltd.
- Kubota Corporation
- KDDI CORPORATION
- Koden Electronics Co., Ltd.
- Komatsu Ltd.
- JTEKT CORPORATION
- JFE Engineering Corporation
- SoftBank Corp.
- TsukArm Robotics Inc.
- DENSO Corporation
- Central Japan Railway Company (JR Central)
- Tokyu Research Institute, Inc
- TOSHIBA CORPORATION
- Tressbio Laboratory Co., Ltd.
- Nileworks Inc.
- NSK Ltd.
- NEC Corporation
- Hitachi, Ltd.
- FUJITSU LIMITED
- Honda Research Institute Japan Co., Ltd.
- Mazda Motor Corporation
- MITSUBISHI ESTATE CO., LTD.
- MITSUBISHI JISHO DESIGN INC.
- Mitsubishi Electric Corporation
- MONET Technologies Inc.
- YASKAWA Electric Corporation
- Yokogawa Electric Corporation
- Rakuten Mobile, Inc.
- Ricoh Company, Ltd.

Public institution and other
- Ministry of Agriculture, Forestry and Fisheries (MAFF)
- Iwata City
- Ota City
- Kawasaki City
- Meguro City
- City of Yokohama
- Kanto Head Office, Organization for Small & Medium Enterprises and Regional Innovation, JAPAN
- The Ocean Policy Research Institute, The Sasakawa Peace Foundation
- Institute for Marine Culture and Research Promotion
- The Ecozzeria Association
- Japan Electronics and Information Technology Industries Association
- Marine Open Innovation Institute (MaOI)
- Japan Plant Factory Association

Individual Member
Tomonari Akamatsu (Waseda University)
Makoto Ando (Institute of Science Tokyo)
Mariko Inamoto (Keisen University)
Takayuki Kawaguchi (SIGMA ENERGY CO.,LTD)
Akihiko Kobagaya (Keisen University)
Manabu Tsukada (The University of Tokyo)
Toshiyuki Tsurumi (Nefrock, inc.)
Hironori Hibino (Nihon University)

For membership applications and inquiries

Super Smart Society Promotion Consortium Secretariat

Takuya Sakaguchi　Professor for Institute Management, School of Engineering
Institute of Science Tokyo

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Contact Person of each school of Institute of Science Tokyo

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Kazuhiko Totsuka	Specially Appointed Expert, School of Life Science and Technology
Susumu Yoneyama	URA, School of Environment and Society
Atsushi Uejima	URA, Institute of Innovative Research
Hideyuki Myojin	Director, Open Innovation Organization

SSS Consortium 超スマート社会推進コンソーシアム
Super Smart Society Promotion Consortium

SUPER SMART SOCIETY Promotion Consortium

Institute of SCIENCE TOKYO

202509

SSS R&E Fields

Super Smart Society Research Education

The Super Smart Society Promotion Consortium, in collaboration with Academy of Super Smart Society, Science Tokyo (WISE-SSS), is currently constructing nine Research and Education fields for a super smart society as an open innovation platform. Members of the Super Smart Society Promotion Consortium are using these fields to conduct joint research on cutting-edge technologies and verification experiments for social implementation, together with faculty and students.

Smart Mobility

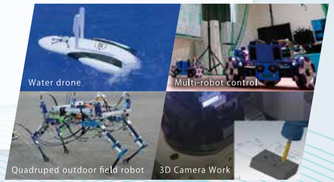
Research on automated driving technology using cutting-edge wireless communications and sensors

This is a smart mobility research and education field constructed based on automated driving technologies and cutting-edge wireless communications systems such as 5G/6G and mmW V2X. Various types of sensor data are transferred and processed for creating new mobility services for a super smart society. Opportunities to learn these technologies through hands-on experience will be provided.

Smart Robotics

Research on robot technologies in different environments, including land, air, and sea

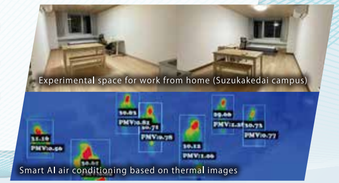
This is a research platform for utilizing robots in the fields of land, air, underwater, and manufacturing. We are creating robotics that will support a super smart society through the offer of opportunities for practical research and education on four-legged robots for outdoor fields (land), drones (air), underwater robots and water drones (underwater), and digital manufacturing technology, etc.



Smart Workplaces

Research on “Smart Workplaces” with sensing technology

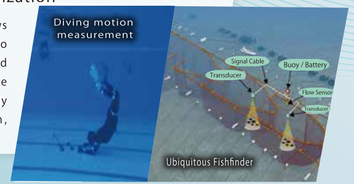
This is a research platform for smart workplaces with the aim of establishing better workplaces. A comfortable and highly productive environment is realized by sensing the indoor environment and the vital signs of workers and via smart AI air conditioning. Furthermore, we try to verify ideal workplaces based on the keywords “Wellness” and “Post COVID-19.”



Smart Ocean

Technology development and verification for enhancing fisheries efficiency with ocean digitalization

This platform aims to quantify and visualize information flows in the ocean for sustainable marine utilization, and to demonstrate optimization technologies that go beyond industry boundaries.Our goal is to maximize the value generated by the fisheries industry by streamlining the supply chain from fishing operations through distribution, processing, and retail.



Quantum Science

Research on next-generation quantum computing and quantum sensors

This is a research platform related to quantum computing and quantum sensors for the next generation. Our goal is to contribute to the establishment of a super smart society that will require advanced information processing through advancing research and the application of quantum computers, which are expected to be put into practical use as ultra-fast, next-generation computers, and quantum sensors with higher detection sensitivity than ever before based on quantum effects.

Smart Agriculture

Research on elemental technologies for small-scale outdoor smart agriculture

We are working to establish a research platform for smart agriculture in response to problems related small-scale agriculture in Japan. To resolve problems such as the increase in working hours, low production efficiency, and low profitability, our aim is to realize remote agricultural technology that enables automated and stable production of high-quality crops by fully utilizing AI, IoT, and robot technology. A demonstration experiment field is currently under construction on campus.

Smart Infrastructure Maintenance

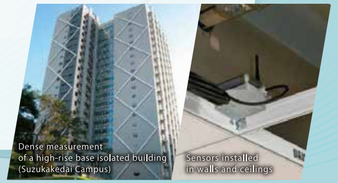
Research on cutting-edge technology related to next-generation infrastructure maintenance

This is a research platform for achieving Sustainable Social Infrastructure (SSI), which supports our life and society. Its goal is to ensure secure maintenance of infrastructure and to enhance urban functionality and resilience. Currently, we are in the process of constructing real structure fields utilizing infrastructure on Institute of Science Tokyo campus.

Smart Building

Toward safe and secure buildings

This is a research platform for evaluating the safety and continuity of use of buildings and providing occupants with early notification of building condition in the event of earthquakes and typhoons. The platform uses data from high-performance sensors densely installed in buildings. We aim to contribute to improving the resilience of not only buildings but also urban functions.



Artificial Intelligence

Research on establishing a platform for utilizing machine learning services

This is a research platform related to artificial intelligence. We established the “Data Science & Artificial Intelligence Research Group for Social Good (DSAI)” and are preparing AI education for graduate students, and have prepared an experimental environment using Wi-Fi 6 wireless LAN, and are establishing a platform for utilizing machine learning services though high-speed lines.