

A future woven through dialogue between science & daily life



# SCIENCE AGORA 2019

2019 **11.15** Fri. → **17** Sun. 10:00~16:30 Admission Free

Telecom Center Building, Miraikan, Symbol Promenade Park (West Promenade)



## Human in the New Age

—What kind of future will we live in?—

How do you want to live in the future, when there will be further development of science and technology? What will the necessary technologies be for an ideal future? What humanity can we not entrust machines and new technology to? Science Agora 2019 will provide an opportunity for consideration from various viewpoints of what it means humanity, what you want to choose, and how we want to use the things in front of us.

Saya the Virtual Human,  
a CG high school girl  
(c) TELYUKA

# Official Report

# Outline

## **What is Science Agora** \*Agora is an Ancient Greek word meaning "plaza"

Science Agora is an open forum, in which people from all positions of society (including citizens, researchers, specialists, media, and persons involved in industry and politics) can participate and converse, the purpose of which is to deepen the relationship between "science" and "society."

To contributors, it is a place for them to convey to society the interest and profundity of their own research, development or other scientific pursuits, while at the same time, attendees have noted that it is a place that gets them to ponder the question of "what is the science that is required by society?"

To attendees, it is a forum where they can find out the ideas of researchers and specialists whom they would not ordinarily meet, while also conveying their own hopes for science and technology as it develops hereafter. In addition, telling acquaintances about experiences at Science Agora provides an opportunity for people who could not attend to think about the relationship between science and society.

### ● **Everybody assembling at Science Agora is a "participant"**

At Science Agora, we perceive both contributors and attendees as "participants." It is neither a science conference that gathers researchers only, nor an event for children alone. Its emphasis is on "co-creation" wherein everybody thinks together to produce our future society, where diverse sets of values are mutually accepted. If you want to utilize science and technology while conversing and cooperating with people from all positions in society, and have an interest in "co-creation" to link this with policy formation and knowledge creation, then we definitely want you to participate in Science Agora.

## **Outline**

■Name: Science Agora 2019

■Period: November 15 (Fri) to 17 (Sun), 2019, 10:00 to 16:30

■Venue: Nov 15, Miraikan (venue for ceremonies)

Nov 16 and 17, TELECOM CENTER BUILDING (main venue), Symbol Promenade Park (West Promenade), Miraikan

■Host: Japan Science and Technology Agency (JST)

■Co-Host: Tokyo Waterfront City Association

■Sponsor: Ricoh Co., Ltd. / Asahi Kasei Corporation. / Gakken Holdings Co., Ltd. / IBM Japan, Ltd. /  
Nippon Telegraph and Telephone Corporation / Elsevier

■Collaborator: Fuji Television Network, Inc. / TOKYO TELEPORT CENTER INC. /  
KYOTO Design Lab of Kyoto Institute of Technology / Sony Mobile Communications Inc. /  
SOURCENEXT CORPORATION / academist, inc. / Fukuinkan Shoten Publishers, Inc. / Wiley

■Support: Cabinet office / Ministry of Foreign Affairs / Ministry of Education, Culture, Sports, Science and  
Technology / Ministry of Economy, Trade and Industry / Science Council of Japan / Keidanren /  
The Japan Association of National Universities / Federation of Japanese Private Colleges and  
Universities Associations / RIKEN / The National Institute of Advanced Industrial Science and  
Technology (AIST) / Bureau of Port and Harbor, Tokyo Metropolitan Government / YURIKAMOME Inc.

■GlobalPartner: American Association for the Advancement of Science (AAAS), EuroScience, KOFAC,  
South African Department of Science and Innovation, CAST

■Participation fee: Free of charge (Note: some programs may have fees, such as for materials.)

■How to participate: Participation is free. (Note: some programs may require preregistration.)

## “Science Agora 2019” exploring “Humanity” through diverse programs concludes with 5,000 attendees

Held for three days as a “place to connect science with society” and open to everyone, “Science Agora 2019” closed on November 17. (It was hosted by the Japan Science and Technology Agency (JST), and it is one of the largest science forums in Japan.) The theme of this 14th Science Agora was “Human in the New Age – what kind of future will we live in?” More than 140 programs were presented, consisting of lectures and exhibition booths based around this theme. During the three days, approximately 5,000 attendees jointly explored “humanity” in the future and “the future of humans and science” at three venues in Tokyo’s Odaiba district: the Miraikan Hall, the Telecom Center Building, and Symbol Promenade Park.



Inside the Telecom Center, one of the venues

On the first day (November 15, 2019), the keynote lecture and keynote session were held in the Miraikan Hall. The keynote lecture was delivered jointly by Dr. Reiko Abe (President Director, Oriental Consultants India Pvt., Ltd.), a civil engineering consultant who along with local stakeholders guided the development of a subway system in India through the idea of “co-creation,” and Dr. Michael Matlosz, who serves as the President of EuroScience, which organizes the EuroScience Open Forum (ESOF) as “a place to connect science and society” in Europe. In the keynote session that followed, academic and business leaders examined Science Agora 2019’s theme “Human in the New Age – what kind of future will we live in?” by delving into questions such as “What are humans?” and “What is humanity?” from various angles. A symposium and an award ceremony also took place on the first day.



Keynote lecturers Dr. Reiko Abe (left) and Dr. Michael Matlosz (right)

The Telecom Center Building was the main venue on November 16 and 17. Program also took place in the Symbol Promenade Park. This year’s Science Agora employed a three-dimensional computer graphic (3DCG) female high school student named “Saya” as the key visual to symbolize the image of a future society where humans and AI will coexist. Saya attracted a lot of attention on SNS.



The 3DCG female high school student “Saya” employed as the key visual

At the “Agora Stage” on the first floor of the Telecom Center Building, specially set up for this event, the audience was energized in sessions such as “Science for Peace – World Peace created through Accelerator Research” and “Superhuman Sports Symposium@ScienceAgora2019.” Sessions were led by diverse presenters, including leading space researcher and physicist Dr. Hitoshi Murayama (Specially Appointed Professor, Kavli Institute for the Physics and Mathematics of the Universe, among other appointments) and Mr. Dai Tamesue, a two-time bronze medalist in the World Athletics Championships’ 400m hurdles, who was nicknamed the “Samurai Hurdler.”



Dr. Hitoshi Murayama (left) and Mr. Dai Tamesue (right)

The Agora Citizens Meeting, “What kind of future will we live in? The future of humans and technology coexisting with AI,” was held on November 16 at 3 p.m. in the Miraikan Hall.

Twelve panelists with diverse backgrounds, including science, cartoons, philosophy, engineering, and journalism, gathered in one place and intensely debated for three hours in front of more than 150 attendees. Dr. Noboru Konno (Professor at Tama Graduate School of Business, President of the Future Center Alliance Japan), who served as the moderator, concluded the debate by stating that “Japan has traditionally been very good at initiating innovations through grassroots efforts. It is important to continue the debate like the one we had today.”



The Agora Citizens Meeting

On the last day (November 17), Dr. Mark Post (Professor at Maastricht University, CSO of Mosa Meat), who traveled to Japan in order to attend Science Agora, presented at a session in which food in the future and “cultured meat” were discussed. Dr. Post, who surprised the world in 2013 by organizing the world’s first “tasting event for cultured meat hamburgers,” drew a very large audience, with many attendees having to stand. Before he arrived in Japan, Dr. Post had said that he was “looking forward to talking to young people in Japan about the future of food.” True to his words, Dr. Post, who is a tall man, often crouched down so that he could discuss topics with much shorter elementary school students. Among the things Dr. Post mentioned was that “we should make efforts to maintain an environment that allows people to choose their own food, including meat, and enjoy meals together.”



The session on “cultured meat” was the most popular of all the events.



Also held on that day were events related to the two awards JST had newly created this year. An award ceremony for the “Award for Brilliant Female Researchers” (the Jun Ashida Award) and a talk session took place at 1 p.m. in the Miraikan Hall. The Jun Ashida Award is given to a female researcher who conducted the best research contributing to the future, and was presented to Dr. Miki Ebisuya, a group leader at the European Molecular Biology Laboratory (EMBL) in Barcelona. The “Award for an Organization Supporting Brilliant Female Researchers,” given to an institution promoting the success of female researchers, was presented to Kyushu University (President Chiharu Kubo). The “JST President Award,” given to the runner-up research behind the Award for Brilliant Female Researchers, was presented to Professor Aiko Fukazawa of the Institute for Advanced Study, Kyoto University.



The award ceremony for the Jun Ashida Award

The awards were presented by JST President Dr. Michinari Hamaguchi, and the prizes were presented by fashion designer Ms. Tae Ashida, representing the Ashida Fund. Ms. Ashida is the second daughter of the late Mr. Jun Ashida, who established the fund.

All the recipients expressed gratification at receiving awards. Dr. Ebisuya said, “I’m honored to be selected as the first recipient of the award.” President Chiharu Kubo of Kyushu University said, “I’m happy that our institution was selected. Our university has been creating various systems to promote the success of female researchers.” Professor Fukazawa said, “Although I feel a responsibility as its recipient, this award seems to be encouraging me to continue to work hard and to produce good work.”

The second event was the pitch talk event by the recipients of the “STI for SDGs” award, which is a program to award initiatives that use science, technology, and innovation (STI) to contribute to the solving of societal challenges in the community. Each of the seven groups of presenters spent five minutes to introduce their initiative. Some of the groups solicited participants to collaborate with them. After these short pitches, a panel discussion was conducted, facilitated by science communicator Mr. Takayuki Honda. Each recipient discussed the history and purpose of their project and their future plan. Some of them mentioned their interest in expanding their work to other communities that face similar challenges. Finally, Mr. Atsushi Arakawa, Director of the Department for Promotion of Science in Society at JST, said that JST would continue to support the further development of excellent initiatives by creating places for dialogue and disseminating information to the media.

In addition, research presentations and sessions on the “JST Program for Fostering the Next Generation of Human Resources” were conducted. Powerful messages from young people who will form the next generation created a lot of excitement in the venue.



The pitch talk event by the STI for SDGs Award recipients

At the exhibition booth, ANA's avatar linked the Telecom Center to the Tsushima Wildlife Conservation Center (Nagasaki Prefecture) and the Komatsushima Living Lab (Tokushima Prefecture). Many attendees "traveled" these locations in real time. Additionally, there were many popular projects that enabled attendees to feel and experience a future society, such as the test ride on a smart mobility "RODEM," a promising means of transportation for the future. Experiential events were organized at the outdoor venue, the Symbol Promenade Park. Many parents and their children participated in activities such as the "superhuman sports" experience, where they could use technology to have fun.



From left to right: avatar, RODEM, superhuman sports

There were approximately 5,000 participants this year, including the visitors, presenters, and exhibitors. This exceeded last year's number. In the closing ceremony, JST Science Agora Promotion Committee Chair, Dr. Shoji Komai (Associate Professor at Nara Institute of Science and Technology), wrapped up the event by saying, "My impression is that humans and communities continue to desire more or less the same things, even when the technology changes." Science Agora 2019, a highly successful event that asked questions around "humanity," then closed.

\* This report was originally posted in Japanese on Science Portal, a comprehensive website providing the latest information on science and technology.

Science Portal: <https://scienceportal.jst.go.jp>

# Numerical Results

## ■ Science Agora 2019 (Annual Meeting)

### Participants

	Attendees	Contributors	Invitees	Press	Total
<Tokyo> Science Agora 2019 15 (Fri) to 17 (Sun) November	3,657	1,493	30	21	5,201

### Contributed programs

	Science Agora 2019 15 (Fri) to 17 (Sun) November
Booths	92
Sessions	62
Total programs	154



## ■ Science Agora 2019 (cooperative projects)

### Participants

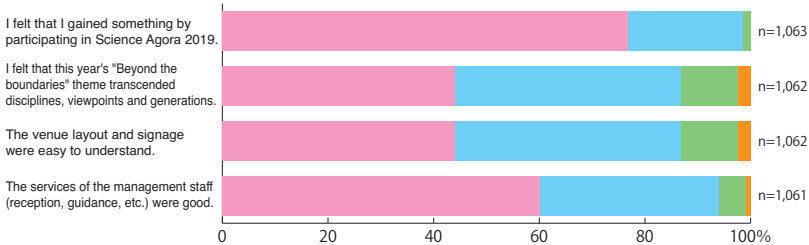
	Attendees	Contributors	media	Total
<Kyoto> Science Agora in KYOTO 27th (Thu) June	800	8	2	810

	Attendees	Contributors	media	Total
<Miyagi> Science Agora in SENDAI 5 (Tue), 6 (Wed) November	378	8	0	386

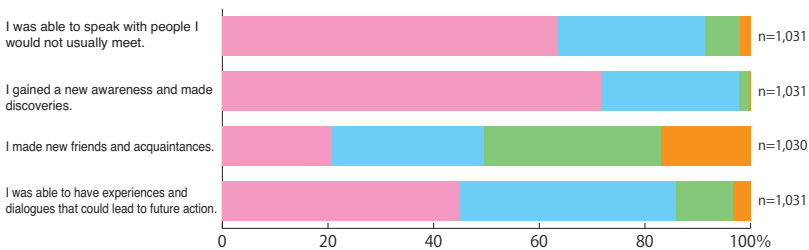
	Attendees	Contributors	media	Total
<Hyogo> Science Agora in KOBE 9 (Sat) November	150	8	1	159

## Results of Attendee Questionnaires

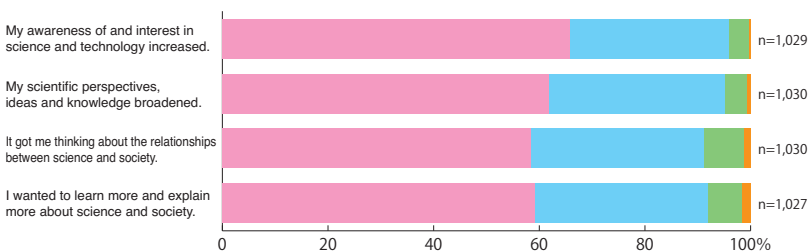
### Q1 Please tell us your impressions of Science Agora 2019.



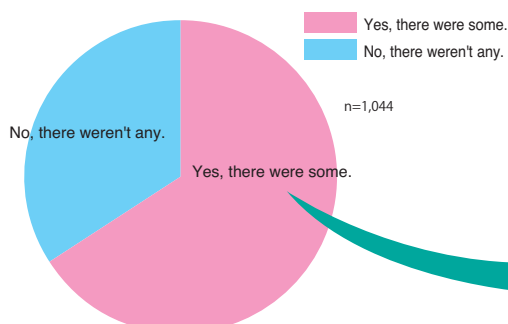
### Q2 Please tell us about your experiences at Science Agora 2019.



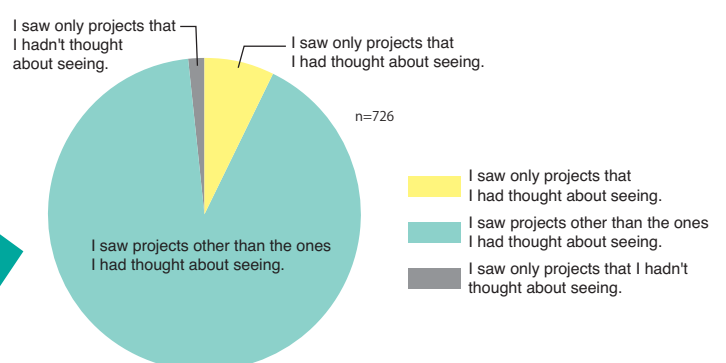
### Q3 How did your attitudes or ways of thinking change by participating in Science Agora 2019?



### Q4 Were there any projects you thought about seeing before you came?



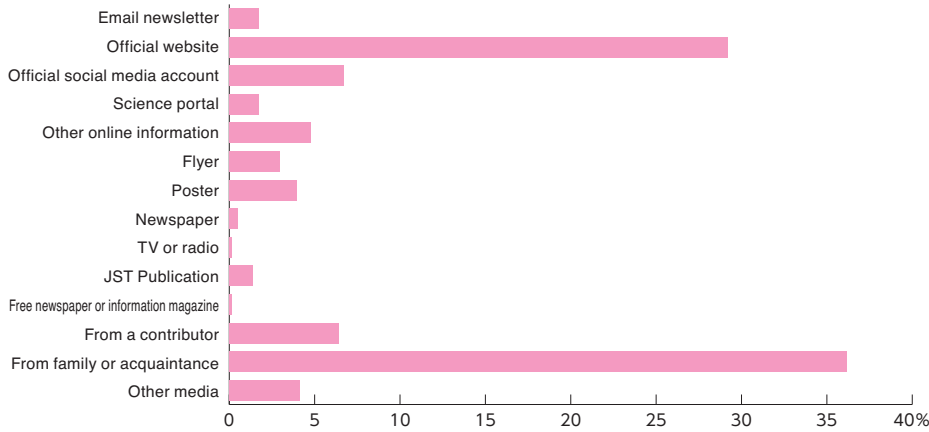
### Q5 Did you see any projects other than those you thought about seeing before you came?



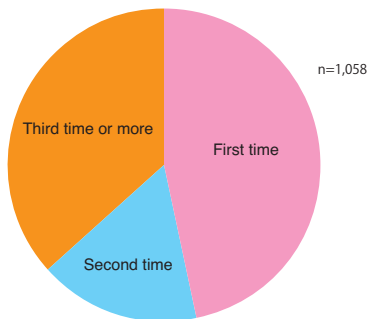


■ Results of Attendee Questionnaires

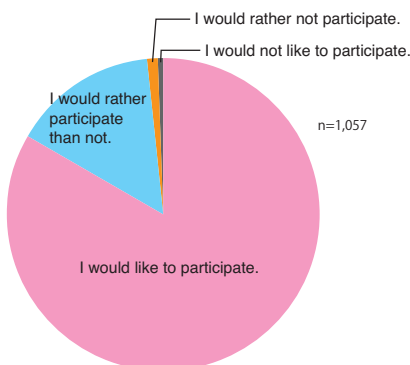
**Q6** How did you hear about Science Agora 2019?  
(Please list as many as apply.)



**Q7** How many times have you visited Science Agora?



**Q8** Do you think you would like to participate in Science Agora again?



# Reports of key programs

## ■ Opening Ceremony

**Date:** 13:00-13:30, November 15(Fri), 2019

**Venue:** Miraikan Hall, 7th Floor, Miraikan

**Organizer:** Japan Science and Technology Agency



### 〈Speakers〉

**Michinari Hamaguchi** President, Japan Science and Technology Agency

**Yutaka Hishiyama** Director-General, Science and Technology Policy Bureau,  
Ministry of Education, Culture, Sports, Science and Technology

**Isao Takahara** Deputy Director General for Science, Technology and Innovation, Cabinet Office

**Takashi Yoshimura** Director, Industrial Technology Bureau, KEIDANREN

**SHU Wei** Executive Secretary, China Association for Science and Technology (CAST)

**Cecil Masoka** Acting Chief Director: International Resources, International Cooperation and Resources,  
Department of Science and Innovation, South Africa

**Patricia Flor** Ambassador, Delegation of the European Union to Japan

President Hamaguchi delivered an opening address on behalf of the organizer, followed by greetings from domestic and overseas guests.



## ■ Keynote Lectures

**Madam, this is our metro!** Reiko ABE

**A new generation of responsible science professionals for the New Age** Michael Matlosz

**Date:** 13:30-14:30, November 15(Fri), 2019

**Venue:** Miraikan Hall, 7th Floor, Miraikan

**Organizer:** Japan Science and Technology Agency

### 〈Speakers〉

**Reiko ABE** President Director, Oriental Consultants India Pvt., Ltd.

**Michael Matlosz** EuroScience President



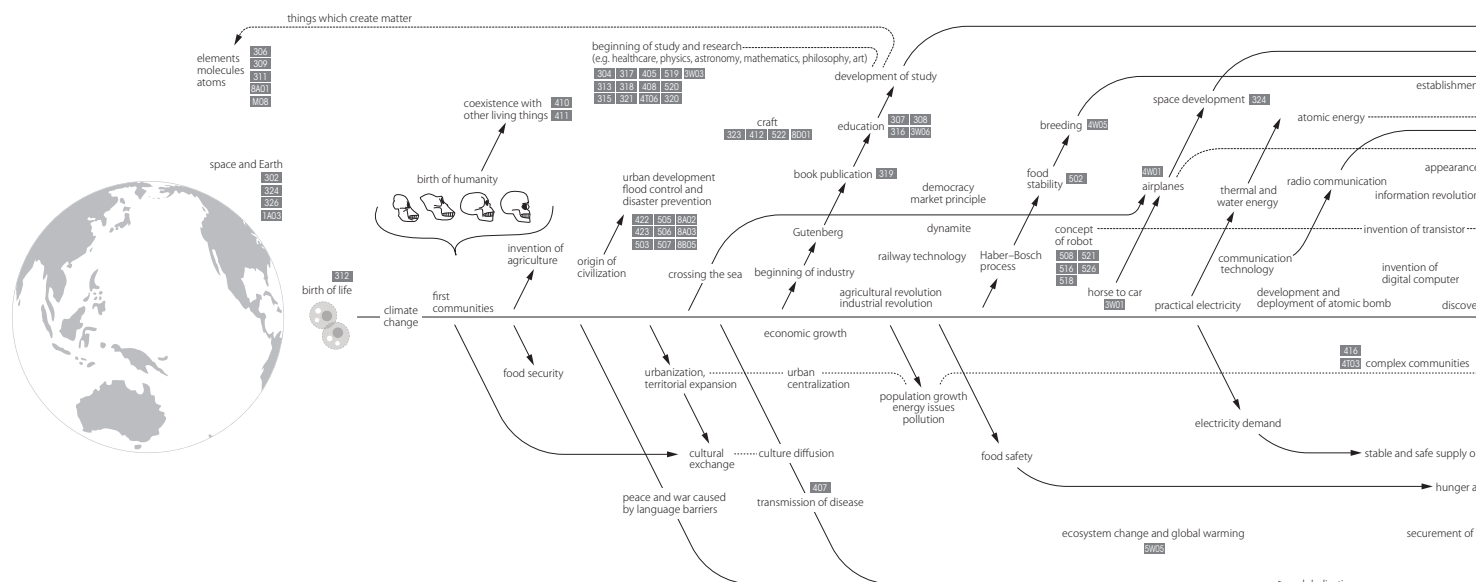
What will it mean to be “human” in an age where developments in science and technology, such as artificial intelligence, body augmentation and innovative food production technologies, are changing the very nature of humankind?

This session explores the human-centric vision of an ideal future society and human happiness, a task for which co-creation among a wide range of stakeholders is essential.

Two speakers with experience co-creating across national boundaries gave keynote speeches about the various initiatives they are involved in.



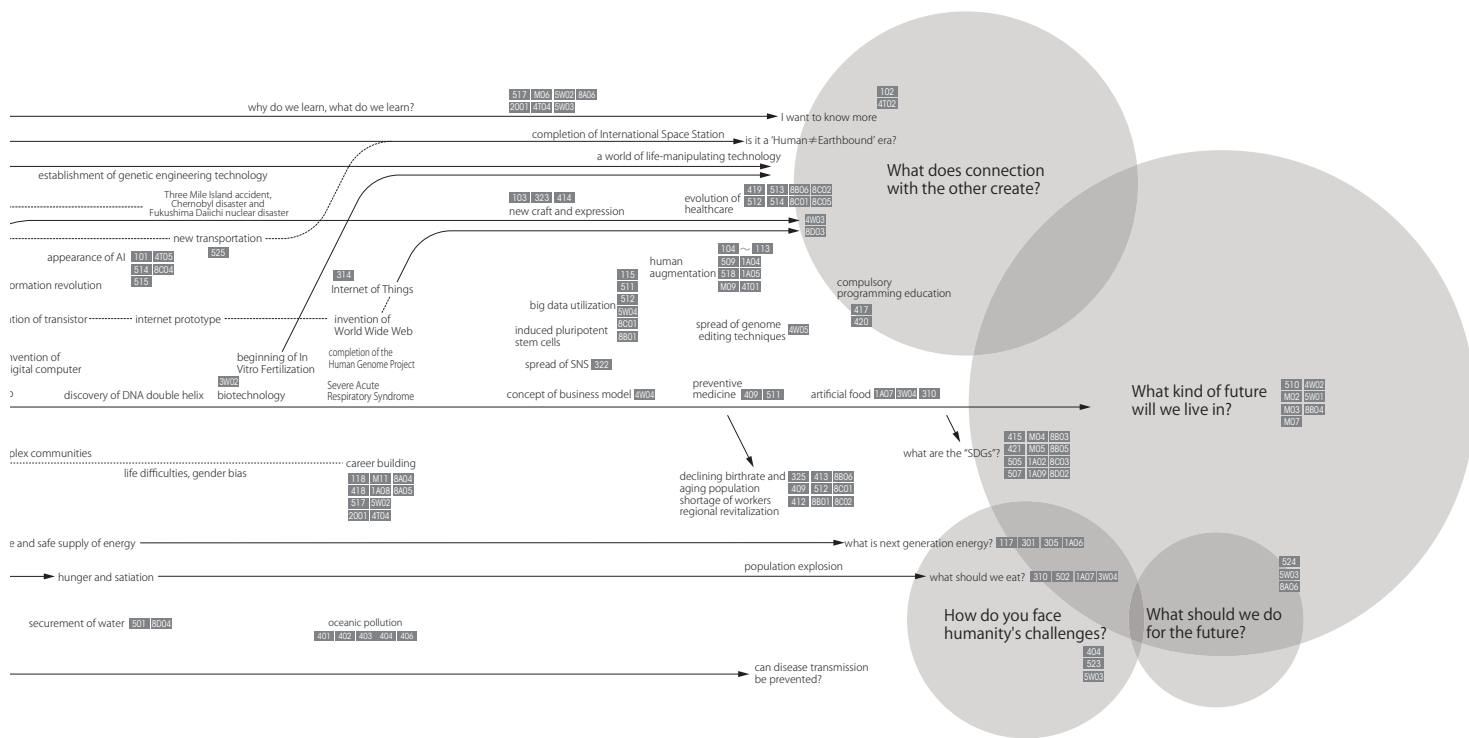
# The progress of science, technology and social issues in each era illustrated by the Science Agora 2019 Steering Committee



## Program

★ Pick Up Programs by the Science Agora 2019 Promotion Committee

Program Title	Organizer
<b>M01</b> Opening Ceremony	Japan Science and Technology Agency
<b>M02</b> Keynote Lecture	Japan Science and Technology Agency
<b>M03</b> Human in the New Age -What kind of future will we live in?-	Japan Science and Technology Agency
<b>M04</b> "STI for SDGs" Award Ceremony	Japan Science and Technology Agency
<b>M05</b> RD contributes achieving SDGs by through collaboration of science and technology	Association of National Research & Development Agencies (RD)
<b>M06</b> Global Science Campus Students Research Conference	Japan Science and Technology Agency (JST) Department for Promotion of Science Education
<b>M07</b> Agora Citizens Meeting "What kind of future will we live in?"	Japan Science and Technology Agency
<b>M08</b> Talk session "The International Year of the Periodic Table! —Let's think about the future through chemistry"	The National Museum of Emerging Science and Innovation (Miraikan)
<b>M09</b> Experience and Creation "Superhuman Sports" !	Superhuman Sports Society
<b>M11</b> Jun Ashida Award for Brilliant Female Researchers - Ceremony and Talk Session	Japan Science and Technology Agency
<b>101</b> AI Touchrally 2019	AIST AI Technology Consortium
<b>102</b> Odaiba 100 papers	The Secretariat of Science Agora / Cooperation:Center for the Promotion of Interdisciplinary Education and Research
<b>103</b> Emo-talk	HAKUHODO BRAND & INNOVATION DESIGN, Japan Science and Technology Agency
<b>104-113</b> IVRC 2019 The Finals	IVRC Committee, VRSJ
<b>114-116</b> Share your opinions!	Japan Science and Technology Agency
<b>115</b> Why Words & Data work for innovation	Data Cake Baker Corporation, Kobayashi Laboratory, Fukuoka Institute of Technology
<b>117</b> Europa Science House	Delegation of the European Union to Japan
<b>118</b> STEM Challenge to encourage girls (Riko-challe) / "One for every household" series	Gender Equality Bureau Cabinet Office / Ministry of Education, Culture, Sports, Science and Technology
<b>1A01</b> Tape Cut Ceremony	Japan Science and Technology Agency
<b>1A02</b> SDGs Cooking! ~Let's play cooking games and get SDGs points~	COI "Students and SDGs" Team Ritsumeikan University + Hokkaido University
<b>1A03</b> ★ Science for Peace ~World Peace created through Accelerator Research~	Linear Collider Collaboration
<b>1A04</b> Superhuman Sports Symposium@Science Agora 2019	Japan Science and Technology Agency, Superhuman Sports Society, VR Society of superhuman Sports Research Committee



Program Title	Organizer
<b>1A05</b> IVRC 2019 Award Ceremony	IVRC Committee, VRSJ
<b>1A06</b> Yes, we can - future by renewable energies	Center for Low Carbon Society Strategy (LCS), JST
<b>1A07</b> Our future food?! Find out and talk about "cultured meat"	Team NIKU, Japan Science and Technology
<b>1A08</b> Messages from Young Top Researchers & Scientists in Future Generations	Japan Science and Technology Agency, Department for Promotion of Science Education
<b>1A09</b> STI for SDGs –Pitch talks for solving societal challenges by utilizing the outcome of Science, Technology and Innovation (STI)–	Japan Science and Technology Agency
<b>301</b> Create the sun	National Institutes for Quantum and Radiological Science and Technology Naka fusion Institute
<b>302</b> Original rock specimens –let's enjoy geoparks!–	Japanese Geoparks Network
<b>304</b> Wonder of Shape and Space: Let's play with Tessellation	Japan Tessellation Design Association
<b>305</b> Let's become an electron and experience spin!	Japan Atomic Energy Agency
<b>306</b> IYPT2019 Japan special Exhibition	Executive Committee for IYPT2019 Japan
<b>307</b> -Think & Play- Puzzle Square	ASOBIDEA
<b>308</b> Hungarian inventions in the playful learning	Embassy of Hungary with Experience Workshop
<b>309</b> Let's gaze about atoms and molecules	Society of Computer Chemistry, Japan
<b>310</b> Making Artificial Salmon Caviar –Chemical experiment of cross-linking reaction–	TUAT museum support student team
<b>311</b> MoleQrious! Solving Africa's food problem by the power of molecules	MoleQrious!, Institute of Transformative Bio-Molecules (WPI-ITbM), Nagoya University
<b>312</b> Think about Life Science -Feeling Molecules and Cells-	Department of Applied Bioscience, Kanagawa Institute of Technology
<b>313</b> Let's Play Mathematics	Philomath Club
<b>314</b> What is IoT? Smart Tokyo changing with IoT.	Tokyo Metropolitan Industrial Technology Research Institute *16th (Sat.) only
<b>315</b> The Timeless Connection between Haruki Murakami and Plato	The Digital Humanities Club
<b>316</b> Let's think about this phenomenon!	Urawa-higashi high school Science Club
<b>317</b> Let's make a wonderful differential pulley ~to lift heavy loads by small power~	The Institution of Professional Engineers, KEIO
<b>318</b> Scientific experience at a city area!	National Institute of Technology, Hachinohe College. Science Club.



	Program Title	Organizer
319	What Science Books Tell Us?	Japan Science and Technology Agency (collaborator : Fukuinkan Shoten Publishers, Inc.)
320	Hopping Patapata, ~Let's enjoy magnet!	Japanese Society of Science Books for Children
321	Experience-based workshops ~Let's go through the Science Olympics~	Japan Science Olympiads Committee
322	Scientific Communication to be Connected from SNS	Alliance of Science in SNS
323	Change society with manufacturing!	Asia Startup Office MONO
324	Let's make your earth heart through the experience of 4D2U / Mitaka	Culture & Science Communication Project, Kanazawa Institute of Technology
325	The Future of Iwate Created by ILC	Bureau of ILC Promotion, Iwate Prefectural Government
326	Science for Peace ~World Peace created by Accelerator Science~	High Energy Acceleratto Research Organization
3W01	Japan High School Science Championships rematch "Clip motor car races"	OB / OG meeting (collaborator : Gakken Holdings Co., Ltd.)
3W02	The Microscopic World of Plants –Observe leaves and make a key chain–	RIKEN ERATO Numata Organellar Reaction Cluster Project
3W03	Children's Science Olympics	Niko Niko Science Labo
3W04	Practical session for DIY cultured meat - "growing meat at home"	Shojinmeat Project
3W06	Hungarian inventions in the playful learning	Embassy of Hungary with Experience Workshop
401	Museum × "Uminomanabi"= Curiosity! Discovery!	Uminomanabi Museum Support from the Museum of Maritime Science (Supported by The Nippon Foundation).
402	Shooting the familiar sea and river with an underwater drone - Is there plastic waste?	Natural environment utilization and development LLC
403	Human Life and Mother Sea to Protect the Ocean Environment	Ocean Literacy and Education Panel, the Oceanographic Society of Japan
404	Gachican ~Let's talk, enjoy, and learn about Environmental Problem~	NaLab. & Seto Lab, Nara Women's University
405	Inflating Balloons by Chemical Power!	Science à la carte école, Osaka Institute of Technology
406	"RD contributes achieving SDGs (14) by through collaboration of science and technology"	Association of National Research & Development Agencies (RD)
407	Baikins' World 2019	Osaka City University x National Institute of Infectious Diseases x Notion
408	MM Lab -Human Body Crafts for kids-	KAWASAKI MEDICAL SCHOOL MEDICAL MUSEUM
409	"Glyco"-healthcare to realize a health society with longevity	Tokyo University of Technology, Biopharmaceutical Research Laboratory
410	I confused. I chose. Because...Let's find the answer of human-wildlife conflicts from various viewpoints.	ecommu
411	Biodiversity and Alien species -Thinking about the future of Japan's nature-	The Japan Biodiversity Associatin
412	Silk (silkworm) in relation to Japanese culture and science	Kyushu University, NBRP silkworm, The Japanese society of sericultural science
413	Gunma☆Raw Silk☆Kawaii Slim☆	Jutoku High School Science Club
414	The World's Strongest "Gel" Will Save Human!?	Hokkaido University Ambitious Leader's Program
415	Action of the research learning and Teaching materials experience for SDGs	Tokyo Metropolitan Fuji high school, junior high school, Physical scientific club
416	Synchronizing electronic fireflies	National Institute of Technology, Matsue College
417	Let's Try Programming with the Help of High School Students!	F.C.Lab Part of the Science and Mathematic Course at Gunma Prefectural Fujioka Chuo High School
418	Let's discuss about the reration and connection with between campany and school, with our experienced business master!	Certified non profit organization Management support NPO club
419	Applying quantum science to lead the way. Opening the door to a brighter future!	National Institutes for Quantum and Radiological Science and Technology
420	Programming Workshop with SkyBerryJAM	Nittetsu Hitachi Systems Engineering, Inc. and Tochigi Technical High School
421	Development of Online platform to match SDGs challenges (needs) and STI (seeds)	Kawakubo Laboratory, Faculty of Engineering and Design, Hosei University
422	Close the distance between us	Japanese Congress for Infrastructure Management Civic engagement forum
423	How heavy is the snow? How does snow color change?	The Japanese Society of Snow and Ice

	Program Title	Organizer
4T01	"Life is small." Micro world observed with a mobile microscope.	Life is small. Projects
4T02	Promote international science collaboration and global harmony	The Science Bridge
4T03	Let's Try Project Management by Tower Game !!	PMI Japan Chapter
4T04	NaviSchora	Naoki Miyano
4T05	Collaboration between Artificial Intelligence and X	Public Relations Office, Institute of Industrial Science, the University of Tokyo
4T06	Let's makes "mayfly"-An experiment of "Schlieren" effect	Yuhei Natsume
4W01	Physics Game : "Anti-gravity" Glider	Research Institute for Science Education
4W02	Future Scenario Playing Open Session	Hakuhodo Brand & Innovation Design
4W03	Human Interactions of the Future!	Department of Strategic Basic Research, Japan Science and Technology Agency
4W04	Business Model Navigator ~Breaking Dominant Logic~	Maximize
4W05	Let's talk about the future of genome editing.	Association of considering about the future of genome editing
501	We declare and practice "SHARING WATER: as WWF8". Useful water and water -soluble iron are carried everywhere, and troublesome water is separated and carried away.	ISTA (The Interdisciplinary Institute of Science, Technology and Art), NPO RAKUICHIKUGA
502	Feed the future with insect food	Japan Edible Insect Science Laboratory / Japan Edible-insects cuisine and Entomophagy Network
503	Call for Code 2019 Global Challenge in Japan	IBM Japan, Ltd.
505	RD contributes achieving SDGs (2,3,7,9,11,13,15) by through collaboration of science and technology	Association of National Research & Development Agencies (RD)
506	Let's learn disaster! ~Let's draw a picture with clay!~	JAPAN CONSERVATION ENGINEERS & CO.,LTD.
507	Super SDGs Projects through Industry-Academia-Government Collaborations in Kyoto ~Urban Development that is sustainable in the next 1000 years and filled with exhilaration basing on Industry-Academia-Government Collaborations.~	Ricoh Company, Ltd.
508	Understand the mechanism of the Robot Cleaner	The Japan Society of Mechanical Engineers
509	Experience and Creation "Superhuman Sports" !	Superhuman Sports Society
510	Future Map for Future Design	HAKUHODO BRAND & INNOVATION DESIGN
511	Healthy Society with long life expectancy brought by Big-Health-Data and new science	COI Reseach Initiatives Organization Hirosaki University
512	Frontiers in Cancer Research "Mankind's Fight Against Cancer— Can We overcome It?"	Graduate School of Medicine Faculty of Medicine, Osaka University Immunology Frontier Research Center, Osaka University
513	Introduction of radiation education APP for digital native	QST-NIRS
514	★Are you convinced of your decision?	Doshisha university Share Your Value Project
515	Collaboration between Artificial Intelligence and X	Public Relations Office, Institute of Industrial Science, the University of Tokyo
516	Experience Robot Arts —Program thinking & Humanity—	Tokyo University of the Arts, Center of Innovation (COI)
517	How do you make a decision? -Learn about teenage life choices-	kawaijuku educational institution 「Future Learning Program」
518	★The future of humans, humans of the future	The University of Tokyo
519	Super Informative Art Museum: A Study of Appreciation	Tokyo University of the Arts Center of Innovation
520	Curious image factory : Science classroom in liberal arts major.	milcra media@Tokyo Zokei Univarsity, Art and Design
521	Family-Friendly Self-Reliance Support Robot Chobitto	Tokyo Metropolitan University SerBOTinQ with KONICA MINOLTA
522	How Do YOU Create?	UTaTané
523	Exhibition booth for successful activities in region which solve societal challenges by utilizing the outcome of Science, Technology and Innovation (STI).	Japan Science and Technology Agency
524	"Science in / for Society" in the world	Delegation of the European Union to Japan, Embassy of South Africa, Embassy of Hungary (Collaborator : Japan Science and Technology Agency, Sourcenext)
525	Experience Teleportation with ANA Avatar!	ANA HOLDINGS INC., Japan Science and Technology Agency
526	★High-tech robotics wheelchair "smart mobility" 『RODEM』	tmsuk co., Ltd

	Program Title	Organizer
5W01	What kind of future do you want?	Tokyo Tech's Laboratory for Design of Social Innovation in Global Networks (DLab)
5W02	The Future of New Science Cultivated through Citizens' Science	The Group to Promote Open Science
5W03	STS Statement Science Session 2019	Center for Science, Technology and Innovation Policy Studies, Kyushu University
5W04	Let's discuss how we can solve social problems with data!	National Institute of Advanced Industrial Science and Technology, AI Technology Consortium
5W05	Board Game × Workshop "THE RULE ~Ecosystem, SDGs Session~"	Hokkaido University, CoSTEP
8A01	IYPT2019 Japan Special Exhibition Element Exam 2019@TOKYO	Executive Committee for IYPT2019 Japan + GENSOCLUB
8A02	How to Prepare for a Natural Disaster	The National Museum of Emerging Science and Innovation
8A03	Discussion on protecting the natural environment of Shinshu	Nature & disaster Education Forum for a new generation
8A04	What kind of fun work do you have? Let's listen to the experience of seniors!	The Engineering Academy of Japan
8A05	Mediation between Industry and PhD	JREC-IN Portal, Japan Science and Technology Agency
8A06	How can we co-create and share novel knowledge with society in the new age?	International Institute for Advanced Studies, Japan Science and Technology Agency
8B01	Healthy Society with long life expectancy brought by Big-health-Data and new science	COI Research Initiatives Organization Hiroasaki University
8B03	Thinking SDGs as engineers!	The Institution of Professional Engineers, Japan
8B04	Urban climate resilience – Urban innovation based on future lifestyles –	Future Center Alliance Japan (FCAJ)
8B05	Super SDGs Projects through Industry-Academia-Government Collaborations in Kyoto ~Urban Development that is sustainable in the next 1000 years and filled with exhilaration basing on Industry-Academia-Government Collaborations. ~	Ricoh Company, Ltd
8B06	21st century clinical medicine for sustainable regional revitalization	Jichi Medical University
8C01	Frontiers in Cancer Research "Mankind's Fight Against Cancer—Can We overcome It?"	Graduate School of Medicine Faculty of Medicine, Osaka University Immunology Frontier Research Center, Osaka University
8C02	Medical Communication ~a patient and the family are supported with everyone!	Life-Bio Plaza21
8C03	★We are the educated youth; The effect of early SDGs education	Ritsumeikan Academic Trust "SDGs Education Team"
8C04	★The difference of AI and human from the perspective of Social Science and Science -Contextualization and background in AI-	Kaoru Amino (Kyushu University), Lisa Okihara (Nagoya Institute of Technology)
8C05	The dementia care in the future created by linguistic × Informatics	Kaoru Amino (Kyushu University)
8D01	The design thinking in Monozukuri and Kotozukuri in Africa Startups, through the lenses of Anthropology and Linguistics	Kaoru Amino (Kyushu University)
8D02	Think about the future workshop	Keatsu Ariake SDGs
8D03	Bitcoin and Cryptography	Institute of Mathematics for Industry, Kyushu University
8D04	"Sustain the Water of Life in a southern island! -Original board game for the conscious of the precious water in our life-"	Team Mizunowa
2001	Fostering next-generation Scientists Program Science Conference 2019	Department for Promotion of Science Education Japan Science and Technology Agency

## Vision

The vision sets forth the long-term objective that we wish to make through the Science Agora.

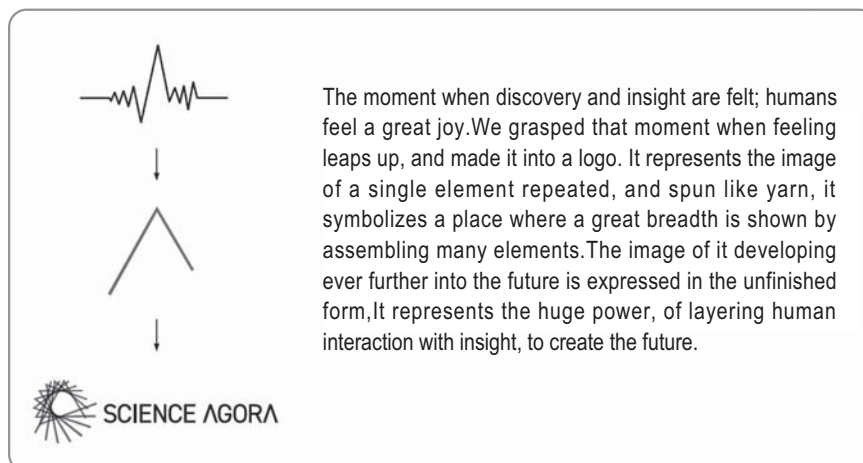
### A future woven through dialogue between science & daily life

Science and technology have developed in parallel with wealth and power in the 20th century. However, in the face of limited resources on Earth and growing strain on the world, we are now beginning to see the limitations of science and technology. In particular, as we make the transition from a growth society into a mature society, the Japan of today is confronted by many problems and it has become extremely difficult to see ahead into the future. In such a Japan, it is important for the relevant stakeholders to create a space where they can come together to consider the future of science and society, respect the views of others, and create a future. We hope to foster such a culture. Furthermore, there are diverse attitudes and approaches depending on the country/region and culture, and we hope to explore methods that are unique to Japan.

[Key points]

- ① We not only placed the emphasis on “creating a space,” but also on having the approach of having everyone put their heads together to create a future society.
- ② The concept embedded in “daily life”: In addition to placing the focus on the daily lives and ways of life of each individual, close to their heart, this approach also considers society as a whole.
- ③ The concept embedded in “weaving”: The importance of exploring methods that are unique to Japan for the creation of a future society has been incorporated into this concept. We call to mind the image of spinning thread a process of creating harmony in the sense of bringing thin and short, disjointed fibers closer together, and gradually building up and creating something meaningful rather than taking a single leap all at once.

## Brand Logo Concept





# Science Agora 2020

will be held in 2020

<https://www.jst.go.jp/sis/scienceagora/>

## Science Agora 2019