# Outline of the program on open innovation platform for industry-academia co-creation

Centered on universities and other academic institutions, this program promotes industry-academia-government co-creation involving diverse stakeholders, including companies, local governments, and citizens. Guided by a vision of a desirable future society, it advances an integrated package consisting of (1) R&D for innovation based on a backcasting approach and (2) the development of an industry-academia-government co-creation system capable of establishing self-sustaining and sustainable centers.

Undertaking these initiatives, this program leverages the strengths and distinctive characteristics of universities and other academic institutions. In doing so, it (1) promotes the establishment of industry-academia-government co-creation centers; (2) contributes to national growth and regional revitalization; and (3) facilitates the transformation toward a knowledge-intensive society led by universities.

## People will change

**Sharing a vision of a desirable future society**

## Our society will change

**Transformation of the social system based on scientific and technological innovation**

## Universities will change

**Development and management of a sustainable industry-academia-government co-creation system**

*Backcasting is an approach in which issues that should be addressed in a scientific and technological way are identified according to the vision of a desirable society, and then project implementation plans are formulated and promoted.

# Project (center) goals

## The two expected goals of the project

**Goal 1**

To achieve the targets necessary to attain the vision (creation of R&D results)

**Goal 2**

To develop an industry-academia-government co-creation system that enables sustainable management toward achieving the vision

To continue to address new targets and challenges necessary to attain the vision even after the completion of the project, thereby promoting **self-sustaining and sustainable activities at centers equipped with a future industry-academia-government co-creation system.**

## Mechanisms to support the attainment of goals

### (1) Creation of R&D results

- Identify and pursue R&D themes that are expected to attain proof of concept (PoC).*1
- Continue to promote industry–academia–government R&D and advance initiatives toward the social implementation of results in order to achieve targets even after the attainment of PoC, while primarily leveraging external resources.

### (2) Establishment of self-sustaining and sustainable centers in the future

- Develop center management systems and functions in line with the Guidelines for Enhancing Industry-Academia-Government Collaboration Activities.*2
- Require institutional-level commitment from universities and other academic institutions and promote initiatives, including securing new external resources such as private-sector funding, to ensure that the centers become self-sustaining and sustainable in the future.

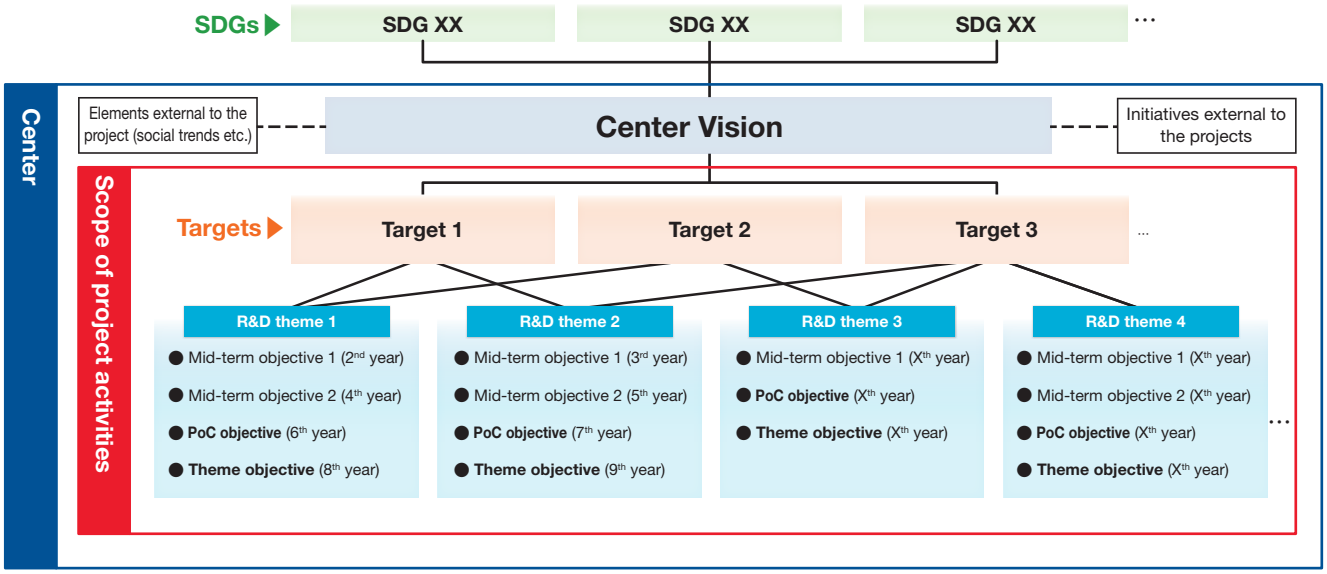
*1 Proof of concept (PoC) refers to a level of achievement at which social implementation can be deemed feasible.

*2 Guidelines for Enhancing Industry-Academia-Government Collaboration Activities (issued on November 30, 2016 by the Industry-Academia-Government Collaborative Roundtable Secretariat).
https://www.mext.go.jp/component/a_menu/science/detail/__icsFiles/afieldfile/2016/12/27/1380912_02.pdf
Guidelines for Enhancing Industry-Academia-Government Collaboration Activities (Supplemental Version) (published on June 30, 2020 and updated on March 29, 2023 by the Ministry of Education, Culture, Sports, Science and Technology and the Ministry of Economy, Trade and Industry
https://www.mext.go.jp/content/20230329-mxt_sanchi02-000020147_01-2.pdf

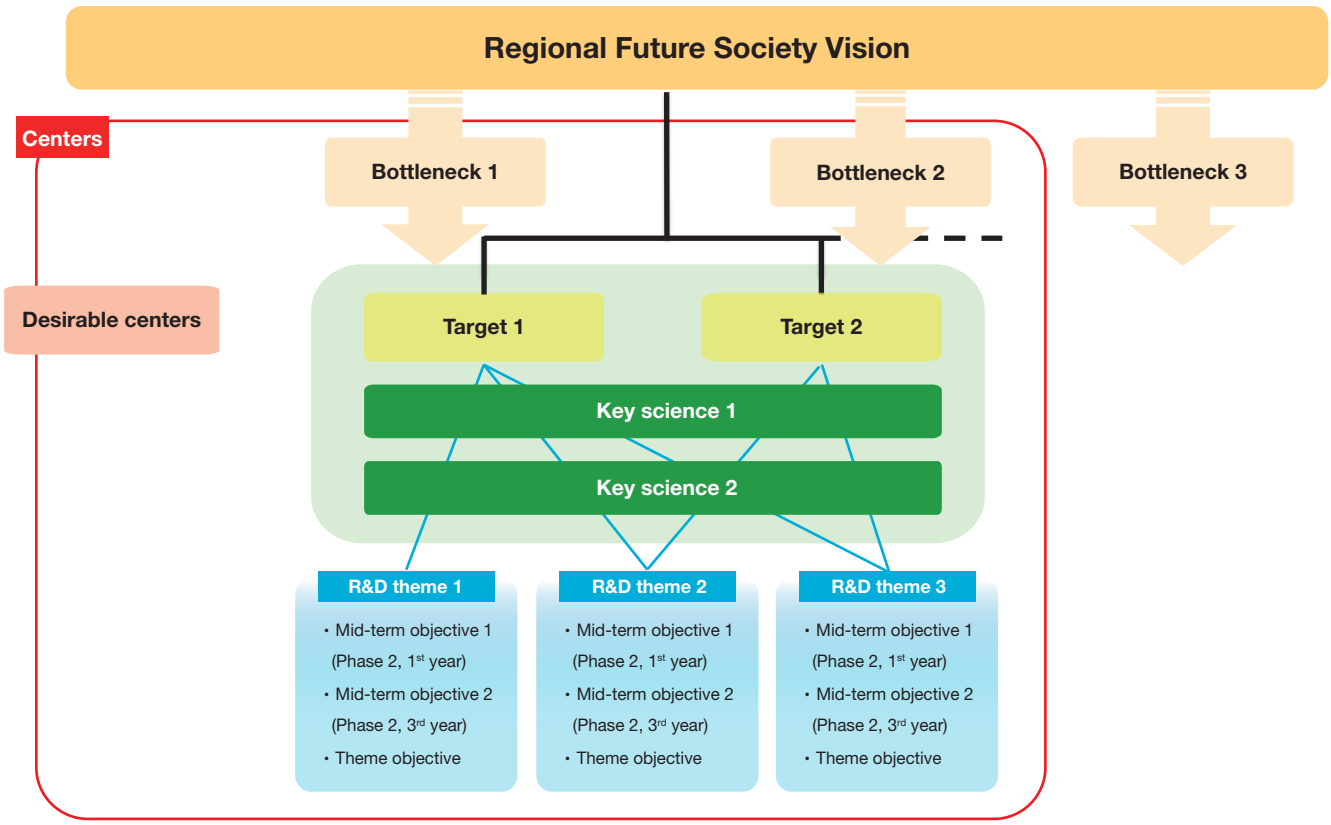
## Co-Creation Type/Regional Co-Creation Type/ Policy-Prioritized Type

【In blue frame】 Centers: Industry-academia-government co-creation centers that continue **after this program has been completed**

【In red frame】 Projects: **Activities implemented under this program**




## Future Co-Creation Type



## Program structure

| | Co-Creation Type | Regional Co-Creation Type | Future Co-Creation Type | Policy-Prioritized Type |
|---|---|---|---|---|
| **Target research field**<br>R&D restricted to the medical field is not eligible. | General science and technology | General science and technology | General science and technology | Quantum Technology Field<br>Environment and Energy Field<br>Biotechnology Field |
| **Purpose** | Centered on universities and other academic institutions, establish international-level, self-sustaining and sustainable industry-academia-government co-creation centers with the aim of realizing a vision of a desirable future society that takes into account social issues at the national and global levels. | Centered on regional universities and other academic institutions, establish self-sustaining and sustainable industry-academia-government co-creation centers, through partnerships with regional governments and private companies, with the aim of solving social issues and developing regional economies. | Centered on regional universities and other academic institutions, (1) identify regional social issues through discussions etc. with stakeholders and teams led by young researchers as project leaders; (2) create global level research results that contribute to solving those social issues; and (3) establish self-sustaining and sustainable industry-academia-government co-creation centers in the future. | Centered on universities and other academic institutions, establish self-sustaining and sustainable co-creation centers that are internationally recognized and that generate results based on the government's prioritized strategies. |
| **Scale of funding**<br>*Including indirect costs | **Feasibility Study:**<br>25 million yen per fiscal year<br>**Full-scale Projects:**<br>Maximum of 320 million yen per fiscal year | **Feasibility Study:**<br>25 million yen per fiscal year<br>**Full-scale Projects:**<br>Maximum of 216 million yen per fiscal year | **Phase 1:**<br>37 million yen per fiscal year<br>**Phase 2:**<br>Maximum of 200 million yen per fiscal year (planned) | The funding will be set for each Policy-Prioritized Field. |
| **Support period** | **Feasibility Study:**<br>Two fiscal years<br>**Full-scale Projects:**<br>Maximum of 10 fiscal years | **Feasibility Study:**<br>Two fiscal years<br>**Full-scale Projects:**<br>Maximum of 10 fiscal years | **Phase 1:**<br>Two fiscal years<br>**Phase 2:**<br>Maximum of five fiscal years (planned) | **Full-scale type:**<br>Maximum of 10 fiscal years |

**Full-scale Projects/Phase 2**

R&D toward the realization of the Center Vision and the development of an industry-academia-government system to support it will be promoted in an integrated manner.

**Feasibility Study/Phase 1**

The formulation of the Center Vision, R&D themes, an industry-academia-government system and the advancement to Full-scale Projects/Phase 2 will be pursued.

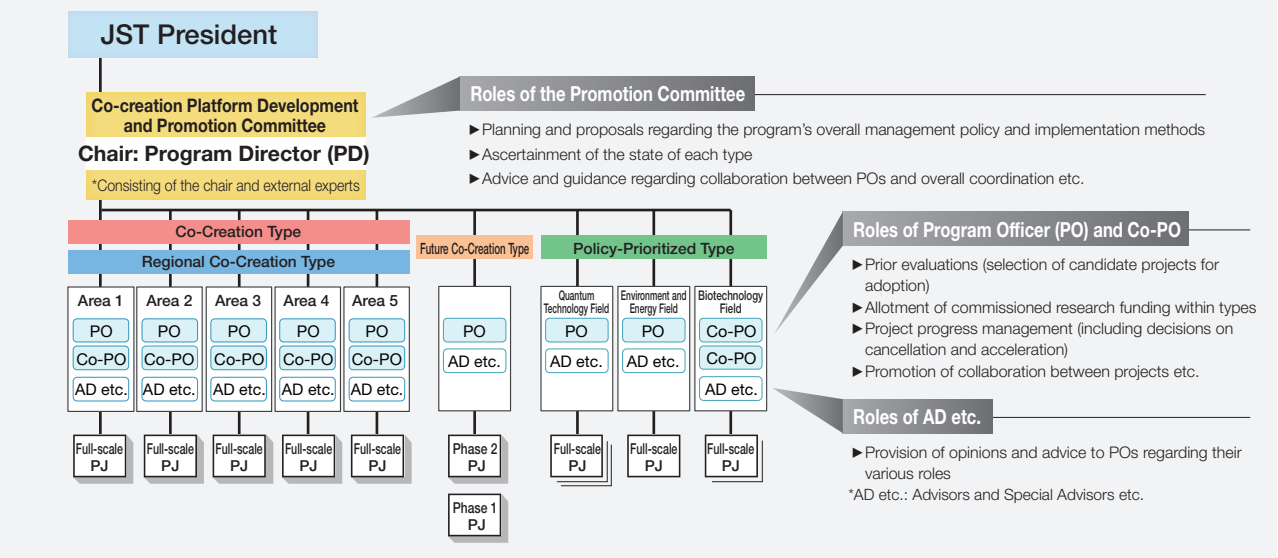
## Management setup of the program/Program Director (PD)/Program Officers (PO)



**Yoichiro Matsumoto**
**(Program Director)**

Under the program, the Co-creation Platform Development and Promotion Committee is chaired by the Program Director (PD) and consists of external experts. The Committee is responsible for the functions of (1) planning and proposals regarding the program's overall management policy and implementation methods; (2) ascertainment of the state of each type under the program, advice and guidance; (3) collaboration between types; and (4) overall coordination.

Supported by Advisors (ADs), who are industry-academia-government external experts and specialists, the Program Officers (POs) in each type (1) implement various project evaluations; (2) allocate commissioned research funding within each type; and (3) manage the progress of the projects through annual site visits and interviews at the centers.




## Members of the Co-creation Platform Development and Promotion Committee

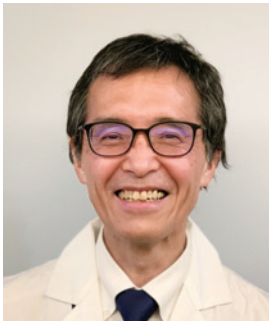
| | Name | Affiliation |
|---|---|---|
| Program Director | Yoichiro Matsumoto | Professor Emeritus, The University of Tokyo |
| Committee Advisor | Hiroshi Komiyama | Chairman of the Institute, Mitsubishi Research Institute, Inc. |
| Committee Member | Maki Kawai | President, National Institutes of Natural Sciences<br>Director, Center for Research and Development Strategy, Japan Science and Technology Agency |
| Committee Member | Kazushi Kuse | Senior Executive Advisor, Asahi Kasei Corporation |
| Committee Member | Satoshi Koike | President & CEO, vegetalia, inc. |
| Committee Member | Akira Sudo | President, Japan Federation of Engineering Society |
| Committee Member | Masaaki Mizuno | Designated Professor, Internal Center for Research, Education, and Development for Healthcare Life Design, Nagoya University |

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## Area 1 (Data-Driven Healthcare)



Yuriko Sawatani (PO)



Teruhiko Yoshida (Co-PO)

### Program Officer (PO)/Advisors

| | Name | Affiliation |
|---|---|---|
| PO | Yuriko Sawatani | Professor, NUCB Business School<br>CEO, Design for All |
| Co-PO | Teruhiko Yoshida | Staff physician, Department of Genetic Medicine and Services, National Cancer Center Hospital |
| Advisor | Hironobu Azuma | Principal, Research & Consulting Division, The Japan Research Institute, Limited. |
| Advisor | Maiko Katadae | Managing Partner, Red Capital Co., Ltd. |
| Advisor | Sumio Sugano | Representative Director, Kashiwa-no-ha Omics Gate |

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## Area 2 (Mental and Physical Well-being)



Nobuyuki Osakabe (PO)



Yuriko Sawatani (Co-PO)

### Program Officer (PO)/Advisors

| | Name | Affiliation |
|---|---|---|
| PO | Nobuyuki Osakabe | Executive Advisor, Core Technology & Solutions Business Group, Hitachi High-Tech Corporation |
| Co-PO | Yuriko Sawatani | Professor, NUCB Business School<br>CEO, Design for All |
| Advisor | Kumi Arakane | Outside Director, KUBOTA Corporation<br>Director, Tokyo Foundation for Pharmaceutical Sciences |
| Advisor | Kenko Uchida | Owner, LMBTech Office |
| Advisor | Maiko Katadae | Managing Partner, Red Capital Co., Ltd. |
| Advisor | Shigenobu Kanba | Professor Emeritus, Kyushu University |

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## Area 3 (Resource and Energy Circular Society)



Kikuo Kishimoto (PO)



Junichi Fujino (Co-PO)

### Program Officer (PO)/Advisors

| | Name | Affiliation |
|---|---|---|
| PO | Kikuo Kishimoto | Professor Emeritus, Tokyo Institute of Technology (now Institute of Science Tokyo) |
| Co-PO | Junichi Fujino | Principal Synergy Coordinator, Strategic Management Office,<br>Principal Researcher, Institute for Global Environmental Strategies (IGES) |
| Advisor | Hiroyuki Itoh | Research Coordinator, Technology & Innovation Center, DAIKIN Industries, Ltd. |
| Advisor | Yuya Kajikawa | Professor, Institute for Future Initiatives, The University of Tokyo |
| Advisor | Mika Goto | Professor, School of Environment and Society, Institute of Science Tokyo |
| Advisor | Minoru Seki | Professor Emeritus, Chiba University |

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## Area 4 (Sustainable and Prosperous Food, Agriculture, Forestry and Fisheries)



Hideo Tsujimura (PO)



Norihiro Nishimura (Co-PO)

### Program Officer (PO)/Advisors

| | Name | Affiliation |
|---|---|---|
| PO | Hideo Tsujimura | Outside Director, Kawasaki Heavy Industries, Ltd. |
| Co-PO | Norihiro Nishimura | Professor, Graduate School of Regional Innovation Studies, Mie University<br>Specially Appointed Vice President, Utsunomiya University |
| Advisor | Masanori Tanaka | Managing Director, Regional Vitalization Support Division, Regional Economy Vitalization Corporation of Japan |
| Advisor | Seishi Ninomiya | Professor Emeritus, Graduate School of Agriculture and Life Sciences, The University of Tokyo |

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## Area 5 (Sustainable Social Infrastructure)



Shigeaki Zaima (PO)



Norihiro Nishimura (Co-PO)

### Program Officer (PO)/Advisors

| | Name | Affiliation |
|---|---|---|
| PO | Shigeaki Zaima | Professor Emeritus, Nagoya University |
| Co-PO | Norihiro Nishimura | Professor, Graduate School of Regional Innovation Studies, Mie University<br>Specially Appointed Vice President, Utsunomiya University |
| Advisor | Hironobu Azuma | Principal, Research & Consulting Division, The Japan Research Institute, Limited. |
| Advisor | Yuya Kajikawa | Professor, Institute for Future Initiatives, The University of Tokyo |
| Advisor | Masanori Tanaka | Managing Director, Regional Vitalization Support Division, Regional Economy Vitalization Corporation of Japan |
| Advisor | Shunsuke Managi | Executive Vice President,<br>Professor, Faculty of Engineering, Kyushu University |

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## Future Co-Creation Type



Masafumi Yohda (PO)

### Program Officer (PO)/Advisors

| | Name | Affiliation |
|---|---|---|
| PO | Masafumi Yohda | Professor, Graduate School of Engineering, Tokyo University of Agriculture and Technology |
| Special Advisor | Norihiro Nishimura | Professor, Graduate School of Regional Innovation Studies, Mie University<br>Specially Appointed Vice President, Utsunomiya University |
| Advisor | Yuriko Kaida | Executive Officer,<br>General Manager, Innovative Technology Laboratories, Technology General Division, AGC Inc. |
| Advisor | Maiko Katadae | Managing Partner, Red Capital Co., Ltd. |
| Advisor | Shigeaki Zaima | Professor Emeritus, Nagoya University |
| Advisor | Masanori Tanaka | Managing Director, Regional Vitalization Support Division, Regional Economy Vitalization Corporation of Japan |
| Advisor | Kazumi Nishijima | Senior Research Fellow, New Industry Creation Hatchery Center, Tohoku University<br>Visiting Professor, School of Medicine, Yokohama City University |
| Advisor | Minoru Nishimura | Chairman, Enbio Holdings, Inc. |
| Advisor | Kunihiro Hamada | Board Chairperson, ASAMA Research Extension Center<br>Former President, Shinshu University |
| Advisor | Kazuhiro Hono | President, National Institute for Materials Science |

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## Quantum Technology Field



Hidemi Ishiuchi (PO)

### Program Officer (PO)/Advisors

| | Name | Affiliation |
|---|---|---|
| PO | Hidemi Ishiuchi | Former President, Evolving nano-process Infrastructure Development Center, Inc. (EIDIC) |
| Advisor | Nobuyuki Imoto | Senior Professor, Office of Senior Professor, The University of Tokyo |
| Advisor | Junichi Sone | Executive Vice President Emeritus, National Institute for Materials Science<br>Visiting Professor, Research Institute for Science and Technology, Tokyo University of Science |
| Advisor | Yuichi Nakamura | Senior Executive Professional, Research & Development, NEC Corporation |
| Advisor | Junko Hayase | Professor, Faculty of Science and Technology, Keio University |
| Advisor | Yoshiro Hirayama | Professor Emeritus, Specially Appointed Researcher, Tohoku University<br>Director, SIP Research Promotion Center, National Institute for Quantum Science and Technology (QST) |
| Advisor | Mio Murao | Professor, Graduate School of Science, The University of Tokyo |
| Advisor | Shigeru Yamashita | Professor, College of Information Science and Engineering, Ritsumeikan University |
| Advisor | Hiroshi Yoshida | Senior Researcher, Institute for Marine-Earth Exploration and Engineering, Japan Agency for Marine-Earth Science and Technology |

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## Environment and Energy Field



Ryoji Kanno (PO)

### Program Officer (PO)/Advisors

| | Name | Affiliation |
|---|---|---|
| PO | Ryoji Kanno | Institute Professor, Director, Research Center for All-Solid-State Battery, Institute of Science Tokyo |
| Special Advisor | Yoshino Akira | Honorary Fellow, Asahi Kasei Corporation |
| Advisor | Hikari Sakaebe | Professor, Division of Advanced Device Materials, Institute for Materials Chemistry and Engineering, Kyushu University |
| Advisor | Yoji Sakurai | Professor Emeritus, Toyohashi University of Technology |
| Advisor | Takei Katsuhito | Researcher (expert), Planning Group, Central Research Institute of Electric Power Industry |
| Advisor | Koichi Nishiyama | Head of R&D Center, GS Yuasa International Ltd. |
| Advisor | Masaharu Hatano | Technical Principal, Nissan Research Division, Nissan Motor Co., Ltd. |
| Advisor | Masayuki Morita | Specially Appointed Professor, Office of Institutional Advancement and Communications, Kyoto University |
| Advisor | Yoshizawa Hiroshi | Technology Strategy Office, Panasonic Energy Co., Ltd. |

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## Biotechnology Field



**Taka-Aki Sato** (Co-PO)



**Junya Toguchida** (Co-PO)

### Program Officer (PO)/Advisors

| | Name | Affiliation |
|---|---|---|
| Co-PO (NCVC) | Taka-Aki Sato | Director, Research and Development Center for Precision Medicine,<br>Specially Appointed Professor, University of Tsukuba |
| Co-PO (University of Tsukuba) | Junya Toguchida | Professor and Assistant Director, Center for iPS Research and Application (CiRA), Kyoto University |
| Advisor | Keiko Abe | Professor Emeritus and Project Researcher, The University of Tokyo<br>Visiting Professor, Tokyo University of Agriculture |
| Advisor | Noriko Gotoh | Professor, Cancer Research Institute, Kanazawa University |
| Advisor | Haruko Takeyama | Professor, Faculty of Science and Engineering, Waseda University |
| Advisor | Tohru Natsume | Prime Senior Researcher, Cellular and Molecular Biotechnology Research Institute, National Institute of Advanced Industrial Science and Technology |
| Advisor | Tomohiro Fujita | CEO, Chitose Laboratory Corp.<br>Counselor, Caracol G.K. |
| Advisor | Kiyoshi Miwa | Advisor, Japan Biological Informatics Consortium |

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# List of projects

## Co-Creation Type | Regional Co-Creation Type | Full-scale Projects

| Center | Representative Institution |
|---|---|
| **Area 1** (Data-Driven Healthcare) | |
| Health Commons Co-Creation Platform | Keio University |
| Co-Creation Center of “Visible” Empowerment for Social Connectedness and Self-Realization | Tohoku University |
| Medical Resilience for All: Connecting Hearts, Hands, and Hope toward Lasting Health after Disasters | Juntendo University |
| Life Design Center for the Mind and the Body | Hokkaido University |
| The center of well-being regional society innovation by an economic development model and a multi-generations approach with a focus on heath | Hirosaki University |
| **Area 2** (Mental and Physical Well-being) | |
| The Photonics Hub for Life and Biomedical Engineering | The University of Osaka |
| Center of Healthy Longevity and Nursing Innovation with Global Ecosystem | Kawasaki Institute of Industrial Promotion |
| Co-creation Center for Alleviating Youth Difficulties to Achieve High Well-being (Minds1020Lab) | Yokohama City University |
| Global Bioconvergence Center of Innovation | Okinawa Institute of Science and Technology (OIST) |
| Arts-Based Communication Platform for Co-creation to Build a Convivial Society | Tokyo University of the Arts |
| **Area 3** (Resource and Energy Circular Society) | |
| Kanazawa Cellulose Park | Kanazawa University |
| Research Center for “Co-JUNKAN” Platform towards Beyond “Zero-Carbon” | The University of Tokyo |
| Secure and Ubiquitous Resources and Energy Co-Creation Center | Nagoya University |
| Carbon Cultivation Innovation Hub Challenging the Limits of Carbon Negativity | Tokyo University of Agriculture and Technology |
| Nature Positive Sustainable Development Hub | Tohoku University |
| Symbiotic Upcycling Hub Connected by Respect | Keio University |
| Co-Creation Hub for Resource Circulation through Zero-Carbon Bioindustry | Kyoto University |
| Toyama Sustainable Platform for Aluminum Circular Economy (T-SPACE) | University of Toyama |

## Co-Creation Type | Regional Co-Creation Type | Full-scale Projects

| Center | Representative Institution |
|---|---|
| **Area 4** (Sustainable and Prosperous Food, Agriculture, Forestry and Fisheries) | |
| The Center of Innovation for Bio-Digital Transformation (Bio-DX) | Hiroshima University |
| Center of Excellence for Sustainable Integration of Land-Based Aquaculture and Agriculture toward a Resource- Circular Symbiotic Society | University of the Ryukyus |
| The Biocommunity Centre: A NIIGATA Circular Bioeconomy Initiative | Nagaoka University of Technology |
| Co-Creative Hub for Fostering a Green Job Market through Gastronomy Geopolitics | Tohoku University |
| "NAGASAKI BLUE ECONOMY", a co-creation center of aquaculture industrialization for sustainable marine food production | Nagasaki University |
| Co-Creating Well-Being through Forest Resources | Akita Prefectural University |
| A Resource-Rich and Sustainable Hub for Revitalizing the Seto Inland Sea | Kagawa University |
| Next-Generation Wagyu Nexus | Hokkaido University |
| **Area 5** (Sustainable Social Infrastructure) | |
| Climate change actions with CO-creation powered by Regional weather information and E-technology | The University of Tokyo |
| Organization for Regional Co-creation of Sustainable Communities and Watershed Disaster Resilience | Prefectural University of Kumamoto |
| My-mobility Co-creation Center | Nagoya University |
| Center for Future Intelligent Infrastructure Co-Created with Residents (FICCT: Futuristic and Intellectual Co-Creation Town) | The University of Osaka |
| Marine Cultural City Co-Creation Center Centered on Remote Sensing | Hiroshima University |

## Policy-Prioritized Type/Quantum Technology Field Full-scale Projects

| Center | Representative Institution |
|---|---|
| Quantum Navigation Innovation Hub | Institute of Science Tokyo |
| Quantum Software Research Hub | The University of Osaka |
| Center of Innovation for Sustainable Quantum AI | The University of Tokyo |

## Policy-Prioritized Type/Environment and Energy Field Full-scale Projects

| Center | Representative Institution |
|---|---|
| Advanced Battery Collaboration | National Institute for Materials Science (NIMS) |

## Policy-Prioritized Type/Biotechnology Field Full-scale Projects

| Center | Representative Institution |
|---|---|
| Tsukuba Digital-Bio International Center | University of Tsukuba |
| Integrated health industry city site that will be a world model for self-sustained growth of human resources and technology | National Cerebral and Cardiovascular Center (NCVC) |