Biocommunity Kansai (BiocK)

From “Accumulation” to “Collaboration”

April 2025

Secretariat
NPO Kinki Bio-Industry Development Organization
Urban Innovation Institute

Overview on Bioeconomy Strategy of the Cabinet Office

Overview of Bioeconomy Strategy

- **The bioeconomy**, which utilizes biotechnology and biomass, is expected **to solve environmental, food, and health issues**, and **to realize a circular economy and sustainable economic growth**, thus increasing global policy and market competition for investment and rule formation.
- Expectations for the bioeconomy in Japan are growing, with a large budget of 1 trillion yen in total, including for bio-production, as discussions on the GX, circular economy, economic security, food security, and enhancing innovative medicines progress.
- Through promoting measures based on **the Bioeconomy Strategy*, expand the bioeconomy market with Japan's advantages**, and achieve **solutions to various challenges and sustainable economic growth** both. (*Bio Strategy (formulated in 2019, updated in 2021.6) has been revised and renamed)

Advancing Bioeconomy Market Growth Measures

100 trillion yen in Japan and overseas by 2030

	Biomanufacturing and bio-based products	Primary Production Systems	Biopharmaceuticals, Regenerative Medicine, Healthcare
Goals	**Promotion of bio-process conversion in each industry, reduction of environmental impact by using unused resources, and improvement of supply chain resiliency**	**Stimulating the sustainable food supply industry and contribute to CO_2 emission reduction and pollen allergy prevention by spreading large-construction with wood**	**Globally developing biopharmaceuticals from Japan, extending healthy life span by collaboration among medical and health care industries**
Technology development	・Developing a **platform for microorganism and cell design** by integrating biotechnology with AI and other digital technologies. ・Focus on **hydrogen-oxidizing bacteria, culture and fermentation processes**, etc. ・Direct use of unused biomass CO_2 to solve raw material limitations , reduction of production and collection costs, pre-processing technologies, etc.	・Development of varieties compatible **with smart agriculture**, transformation of cultivation systems, development of generative AI to support farmers, etc, and Research and development for **both productivity improvement and sustainability**, such as development of new varieties with genomic information, etc. ・Development and verification of technologies for construction wood (CLT, etc.) and forestry machinery, and development **of pollen-free cedar through genome engineering**	・Enhancing **basic research and bridging capability** to create innovative seeds that will lead to next-generation medical technologies and pharmaceuticals
Market	・Focus on market creation of high-value-added products first for bio-based products. Review regulations and market ideal for low-cost and mass production, and market general-purpose products in phases. Expand the scale of public/private investment to 3 trillion yen/year. ・Review of **measures to stimulate demand with** reference to **LCA and other evaluations, product labeling**, forming of rules for **global standardization** and the Green Purchasing Law, etc.	・Promoting measures to reduce environmental issues based on the "Green Food System Strategy" ・Promoting **public understanding** of advanced technologies such as **food tech**, etc. Developing advanced technologies in **overseas markets, international standards**, etc. ・Promoting and raising public awareness of the significance and benefits of wood use.	・Considering **appropriate evaluation of innovations in the NHI drug price system** to proceed development of innovative drugs and medical devices. ・Support for establishment of an authorization system in collaboration with the medical and industrial communities to **ensure healthcare service reliability.** ・**Secure personnel for manufacturing on-site** and develop CDMOs and other manufacturing bases in Japan, including for security purposes.
Operating Business	・Development of biofoundry bases ・Develop **and ensure personnel** required in the value chain , and create a **supply chain that includes peripheral industries**. ・Coordination of regulations and rules with government ministries and agencies, response to global discussion, and promotion of biomass utilization based on the Basic Plan for the Promotion of Biomass Utilization.	・Enhance and improve **the infrastructure for joint use** by industry, academia, and government at the National Agricultural Research Organization (NARO) and other institutions. ・Developing **startups of agriculture, forestry, fisheries, and food industries** through large-scale technology verification programs ・Developing designers and constructors of large-scale construction with wood	・**Support pharmaceutical venture businesses** by **enhancing connections between the ecosystems in** Japan and other countries. ・Support for **startups** based on healthcare industry market uniqueness

Base measures

・Improvement of **environment for young researchers to focus on research**, and enhancement of **competitive research funding**.
・Develop **database and AI based search technology** to further promote the **integration of bio-digital** and **DX research**, and develop **bioinformatics personnel**.
・Develop an infrastructure to support **collaboration and use of data** across disciplines and disciplines.

・Promote basic research such **as research focusing on the "life path"** of life from birth and growth to aging. Promote utilization of knowledge in different areas such as **AI and quantum**
・Ensure collecting, maintaining, and providing **bio-resources**, and enhance the core hubs. ・Promote collaborative actions among **industry, academia, government, and academia in bio-community and startup ecosystem** cities to attract personnel and investment, and to supply products and services to the market.

Overview of the Bioeconomy Strategy

○Solving problems of the environment, foods, health, etc.
○Achieving a Circular Economy and Sustainable Economic Growth

Contributing through expansion of the bioeconomy market

Expansion of the bioeconomy market (using biotechnology and biomass) Science and Technologies Toward 2030 and Direction of Innovation Policies

Aiming for 100 trillion yen scale market in Japan and overseas by 2030

①Biomanufacturing and Bio-based Products

②Sustainable primary production system
③ Large-scale construction utilizing timber, and smart forestry

④Biopharmaceuticals, regenerative medicine, cell therapy, gene therapy-related businesses
⑤Healthcare for lifestyle improvement, digital health

Set a vision for each target market by 2030, and measures to develop technology, market environment, and business environment through backcasting.

Base measures such as strengthening **research capabilities in** basic life sciences, which form the base of the bioeconomy, and promoting the activities of the bio-community.

Market Areas Review

Biotechnology Strategy (Follow-up 2021. June)

- ①High functional bio-materials (lightweight, durable, and safe)
- ②Bioplastics (substitute for general-purpose plastics)
- ③Sustainable primary production system
- ④Organic waste and organic wastewater processing
- ⑤Healthcare improving lifestyles, functional foods and digital health
- ⑥Biopharmaceuticals, regenerative medicine, cell therapy, gene therapy-related businesses
- ⑦Bio-production systems (Industrial and food production (using bio-functional production))
- ⑧Bio-related analysis, measurement and examination systems
- ⑨Large-scale construction with wood and smart forestry

Integration and Expansion

Bioeconomy Strategy (2024. June)

①Biomanufacturing and bio-based products

・Based on the fact that technological progress has expanded the range of goods that now can be produced with biotechnology, expanding into a wide range of markets beyond existing materials and plastics.
・Adding a policy for initiatives using large budgets for the Bio manufacturing innovation project, the GI Fund, GteX, etc.

②Sustainable primary production system

・Adding Smart agriculture, Green food system strategy, and Food tech which is highly interested in the industry.

③Large-scale construction with wood and smart forestry

・Adding measures from the perspective of control measure for source of cedar pollen.

④Biopharmaceuticals, regenerative medicine, cell therapy, gene therapy-related businesses

Adding measures to promote innovative R&D,collaborative research, and the development of manufacturing bases that will lead to next generation medical care, and fostering pharmaceutical venture businesses.

⑤Healthcare for improving lifestyles, digital health

・Adding data linkage as a foundation to promote market access in the healthcare, support for startups domestically, etc.

5

Regional Characteristics, Strengths, and Challenges of Kansai

Kansai's strengths and challenges

Accumulation of bio-related industries

✓ Historically, bio-industries such as pharmaceuticals, medical devices, and fermentation have been concentrated;
✓ Small and medium-sized manufacturing companies with advanced technologies, such as development and manufacturing of medical devices, are concentrated mainly in Eastern Osaka;
✓ Bio related contract manufacturing organization (CMO) and contract development & manufacturing; organization (CDMO) businesses have been actively expanded in recent years.

Center of Research and Accumulation of Knowledge

✓ High-level research institutes and high-quality researchers are concentrated;
✓ Advanced research and development is progressing in the fields of regenerative medicine and immunity, such as iPS cells and cancer immunotherapy;
✓ Leading Research & development in cutting-edge fields, such as supercomputers, Fugaku.
✓ There are many research & development-type private companies;
✓ Diverse clusters in a wide range of fields have been developed and are compactly integrated.
✓ Joint researches and research exchanges with overseas are actively carried out.

The charm of the area

✓ Internationally, the cities of Osaka, Kyoto, and Kobe are significantly recognized as attractive cities;
✓ Kansai International Airport is the gateway to Kansai and has strong ties overseas, especially in Asia;
✓ Office rent and industrial zone rent are also relatively reasonable and have excellent cost competitiveness

Expectation to the future

✓ Many large-scale projects for Research & Development-type industrial promotion are being promoted;
✓ There is a foundation for producing start-up companies and it is expected;
✓ Osaka/Kansai Expo 2025 is scheduled, and future orientation is being cultivated.

Challenges

✓ Lack of venture mindset, human resources and funds;
✓ Startup awareness is low;
✓ There is no cohesiveness as Kansai.

From Accumulation to Collaboration

Accumulation of bio-related industries

Center of Research and Accumulation of Knowledge

The charm of the area

Accumulation

Support

Collaboration

Accelerate collaboration and linkages

Realizing a bioeconomy society in a wide range of market fields

Kyoto University
Center for iPS Cell Research and Application (CiRA),
Foundation for iPS Cell Research and Application (CiRA_F)
RIKEN (Keihanna)
Research Institute of Innovative Technology for the Earth(RITE)
Kyoto Research Park (KRP)

Osaka University
University Public Corporation Osaka
National Institute of Biomedical Innovation, Health and Nutrition
National Cerebral and Cardiovascular Center
National Institute of Advanced Industrial Science and Technology (Kansai Center)
RIKEN (Suita), Saito, Kento, Nakanoshima
Kansai Pharmaceutical Industries Association,
Doshomachi, LINK-J WEST,Urban Innovation Institute
Kinki Bio-Industry Development Organization

Kobe University
RIKEN (Kobe)
Kobe Biomedical Innovation Cluster (KBIC)/Supercomputer “Fugaku“
Organization for Engineering Biology (OEB)
Manufacturing Technology Association of Biologics (MAB)
Biologics Center for Research and Training (BCRET)
Harima Science Park City / Large Synchrotron Radiation Facility "SPring-8"

BiocK commitment accelerates further collaboration and linkages.

By such efforts Of KSAC *, KSII ** universities and research institutes Collaboration is progressing

* Keihanshin startup academia coalition
** Kansai Innovation Initiative

Startup support has begun through the actions of the Osaka-Kyoto-Hyogo-Kobe Consortium*.

* Startup and Ecosystem Hub Cities/Cabinet Office

About the Biocommunity Kansai

About the Biocommunity Kansai

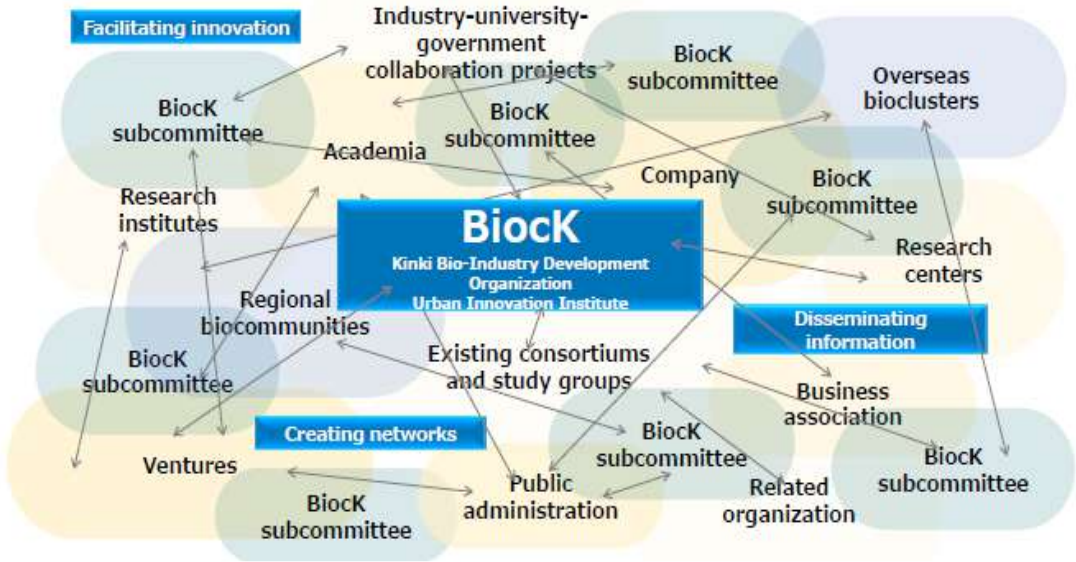
Vision	Spreading a bio-first approach to build a Global Biocommunity and realize a sustainable society
Goal	Creating an ultimate ecosystem for the bio-fields in Kansai
Keyword	Shifting from “Accumulation” to “Collaboration”

Name	✓ Biocommunity Kansai ✓ Abbreviation: BiocK
Establishment	✓ July 1st, 2021 ✓ April 22, 2022 ✓ (Global bio-community certification ✓ by the Japanese cabinet office)
Action Plan	✓ Promoting innovation ✓ Promoting networking ✓ Providing information to domestic and overseas
How the Biocommunity to be	✓ Making a community focusing on industry ✓ Strengthening collaboration across all of the Biocommunity ✓ Leading to new innovation

What is the meaning of "collaboration"?

By promoting the exchange of people and information within the community centered on the network institutions, Each institution has a deep understanding of each other's situation, appropriate information is shared with each other, cooperation with necessary partners, and a positive cycle of manpower, products, finance, and information is progressing, achieving economic growth and a stronger global presence.

Shifting from “Accumulation” to “Collaboration”



Organization of Biocommunity Kansai

Biocommunity Kansai (BiocK)

Committee

Secretariat
Kinki Bio-Industry Development Organization
Urban Innovation Institute

Adviser
(Expert)

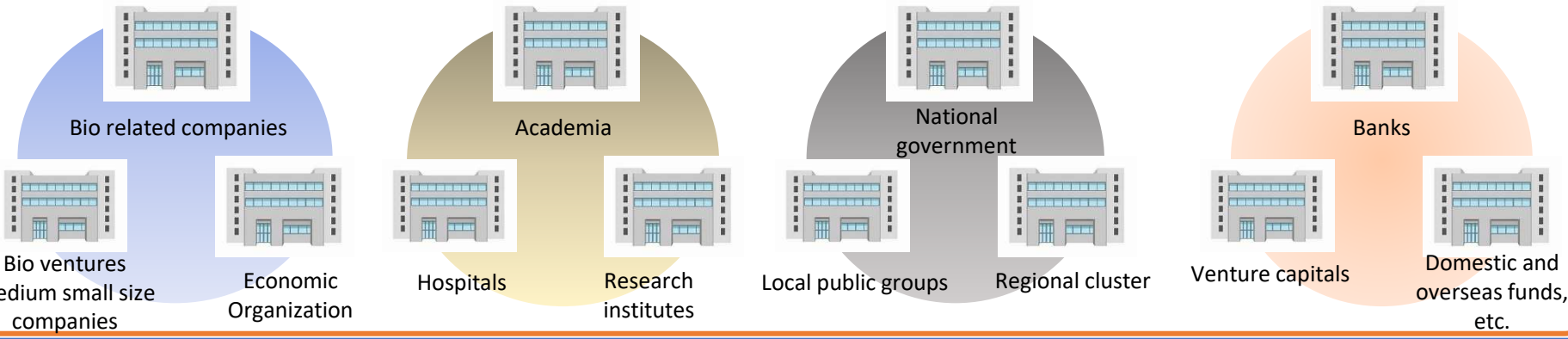
Base : Grand Green Osaka(TBD)

Kansai area
Osaka
Hyogo
Kyoto
Shiga
Tokushima
Tottori
Nara
Fukui
Wakayama

Sub-committee 1
Sub-committee 2
Sub-committee 3
Sub-committee 4
Sub-committee 5

Partner Organizations

Collaboration・Support・Cooperation



Biocommunity Kansai Committee Organization

July 1st, 2024

Committees

Board Member

Chairperson of the committee	Takuko Sawada	Chairperson, Kansai Economic Federation Venture Ecosystem Committee
Vice-chairperson of the committee	Ryuichi Morotomi	Vice-chairperson, Venture Ecosystem Committee, Kansai Economic Federation Chairperson, Kansai Association of Corporate Executives ”Bridge Forum Committee”
Vice-chairperson of the committee, Executive Supervisor	Tsuneaki Sakata, Ph.D.	Chairperson, NPO Kinki Bio-Industry Development Organization Vice-chairperson, Life Science Promotion Committee, Osaka Chamber of Commerce and Industry President, All Japan Biocommunity Liaison Committee
Secretary General	Kiyofumi Takata	Senior Director, NPO Kinki Bio-Industry Development Organization
Deputy Secretary General	Hideshi Fujimoto	Senior Director, Urban Innovation Institute

Kansai Economic Federation
Kansai Association of Corporate Executives
Osaka Chamber of Commerce and Industry
Kyoto Chamber of Commerce and Industry
Kobe Chamber of Commerce and Industry
Osaka University
Kyoto University
Kobe University
Tokushima University
Osaka Metropolitan University
Osaka city, Osaka Pref.
Kobe city, Hyogo Pref.
Kyoto city, Kyoto Pref.
Shiga Pref,Tokushima Pref.
Tottori Pref., Nara Pref.
Fukui Pref.,Wakayama Pref.,
Sakai city,

National Institutes of Biomedical Innovation, Health and Nutrition
National Cerebral and Cardiovascular Center
National Institute of Advanced Industrial Science and Technology Kansai Center
National Agriculture and Food Research Organization
RIKEN
National Institute of Technology and Evaluation
Research Institute of Innovative Technology for the Earth
Advanced Telecommunications Research Institute International
Kansai Health and Medical Care Innovation Council
Kansai Pharmaceutical Industries Association
Japan External Trade Organization Osaka Headquarters
Kinki Headquarters, Organization for Small & Medium Enterprises and Regional Innovation, Japan
Life Science Innovation Network Japan
Japan Bioindustry Association

Secretariat NPO Kinki Bio-Industry Development Organization　Urban Innovation Institute

Action Plan （1）Facilitating Innovation

By forming a responsible consortium (subcommittee) to promote open innovation to solve social issues, take on challenges that cannot be solved by one company or one research institution.

① **Facilitating of open innovation by companies**

- Themes are solicited mainly from Kansai companies, and the core companies get the commitment of the management and become responsible leaders.
- Leader companies play a central role in forming and managing subcommittees involving Kansai and related organizations in Japan and overseas.

② **Collaborate with industry-academia-government collaboration projects**

- Cooperate with industry-academia-government collaboration projects promoted by the national and local governments, and give them a role as subcommittees, as necessary.
- Aim to improve the overall results by utilizing the BiocK network, such as by collaborating with other subcommittees

The following issues, which are the basis for all activities, need particular attention and subcommittees are established for addressing them.

Category	Task	Direction of Action
Startup support	Lack of venture mindset, human resources, and funds; Low recognition in overseas; Extremely small numbers of ventures, especially in the later stages of development.	Development of CXO human resources (business plan development, intellectual property securing, etc.); Financing after Series B; Cooperation with Osaka/Kyoto/Hyogo Kobe Consortium, KSAC, KSII; Proposal of funding mechanism that is not bound by the existing frameworks.
Securing human resources	Lack of CXO personnel to manage startups; Lack of human resources involved in bio-manufacturing.	Launch of CXO Human Resources Discovery Program through Human Resources Exchange; Approach to high-school students to foster their entrepreneurial mindset; Collaboration with a biomanufacturing human resources development Project.
Biofoundry	Establishment of biomanufacturing technology requires technology development and upfront investment; If we can build a value chain, it will be a great strength.	Strengthening projects related to biomanufacturing technology and cell-manufacturing technology; Utilization of CDMO, CMO, bio-manufacturing bases of operating companies;
Data linkage and utilization	Creating rules for collecting, integrating, and using biorelated data; Building a system that can be operated sustainably.	Construction of data linkage system from Kansai; Realization of Society 5.0.

Subcommittee Promotion of open innovation by companies (16 projects)

April 1st, 2025

Name	Areas	Work	Leadership Company
Biomethane subcommittee	Environment and energy	Carbon neutralization of energy	Osaka Gas Co., Ltd.
Plastic subcommittee	Environment and energy	Bioplastic	Saraya Co., Ltd.
Mental health subcommittee	Healthcare	Improving social productivity	Shionogi & Co., Ltd.
Personal data subcommittee	Healthcare	Use of personal data	Nippon Telegraph and Telephone West Corporation
Wellbeing Subcommittee on Aspergillus (national bacteria)	Lifestyle modification healthcare	Elucidation of health and cosmetic effects of Aspergillus oryzae	Gekkeikan Sake Co., Ltd.
Life Style DX subcommittee	Digital Healthcare	Updating Lifestyles with Digital	Suntory Global Innovation Center Limited
Toilets excellently add value to your life	Healthcare	Toilets excellently support your physical wellbeing	TOTO Ltd.
Subcommittee on Tea and Frailty Research	Healthcare	Creating Health Care & Food Technology Innovations with Tea	Kyoeiseicha Co., Ltd
Smart cultivation subcommittee	Continuous primary production system	Maximizing the use of biotechnology in the primary industry	Yanmar Holdings Co., Ltd.
Utilization of wood and CLT with DX subcommittee	Large scale and Mid-to-high-rise building using wood and CLT	Reuse of CLT with Building Information Modeling (BIM) data	TAKENAKA CORPORATION
Forest Environment subcommittee utilizing KODOBOKU	Forest conservation	Luxuriant reforestation for Biodiversity	C-TECH CORPORATION
Biofoundry cluster subcommittee	Manufacturing Value Chain	Biomanufacturing	Baccus Bio innovation Co., Ltd.
Subcommittee on Analysis and Measurement Technologies	All biotechnology fields	Promoting bioindustry through analysis and measurement technologies	Shimadzu Corporation
Space Biological Experiments Subcommittee	All biotechnology fields	Construct a democratized space biological experiment platform using satellite payloads from Japan	IDDK Co., Ltd.
Section committee changing the world of Biotechnology by sound	Biotechnology production system / health care	Use of sound to Biotechnology production system and health care area	Onkyo Corporation
Start-up subcommittee	Support for start-up	Support for start-up in Kansai	Sumitomo Mitsui Banking Corporation(SMBC)

Seeking companies and industry-academia-government collaboration projects that will be the core function of the new subcommittee.

Many research institutions from industry, government, and academia are scheduled to participate

Subcommittee

Collaboration with industry-government-academia projects (15 projects)

April 1st, 2025

Name	Area	Work	Leadership Organization	Remarks
Subcommittee on digital biohealth	Healthcare	General health industry city	National Cerebral and Cardiovascular Center	Field of JST co-creation
Subcommittee on photonics life engineering	Healthcare	Photonics biotechnology	Osaka University	Field of JST co-creation
VISION to CONNECT	Healthcare	Social implementation of happy lifestyles through digital health big data with a focus on ophthalmology	Tohoku University	Field of JST co-creation
Subcommittee on modality	Healthcare	Manufacture of antibodies, gene therapy products, and vaccines	Manufacturing Technology Association of Biologics (MAB)	AMED・NEDO
MedTech Innovation	Healthcare	HR Training for Medical Device Development	Osaka University/Thermo Corporation	
Health Equity DX Subcommitte	Healthcare	Building a care system for carers	JichiMedical University / Alm Co., Ltd	
Subcommittee on cell production	Regenerative medicine	Construction of an ecosystem for cell production	Osaka University	AMED
Regenerative Medicine subcommittee	Regenerative medicine	Building a regenerative medicine ecosystem and globalization	Osaka University	
Health Functions Quotient	Prediction, prevention and improvement for weaking of Health	Extending healthy life by maximizing personal health	Kobe University and RIKEN	
Food loss subcommittee	Sustainable primary production system	Innovative low food loss co-creation base	Osaka University	
Subcommittee on digital green	Sustainable primary production system/ Digital healthcare/ Bioproduction system	Realization of a sustainable society with Keihanna Science City and suburban farming and mountain villages complementing each other	Nara Institute of Science and Technology	
Biomass subcommittee	Carbon neutral	Realization of carbon zero emissions through biomass technology	Tokyo University of Agriculture and Technology (TUAT)	Field of JST co-creation
White bioindustry subcommittee	White bioindustry	Biofoundry business	Osaka University (representative sponsor)	NEDO
	Developing Human Resources for Bio-Production Systems	Developing Human Resources for the Bio-Industry to Handle Bio-Manufacturing Practices	Osaka University Institute of Technology	NEDO
Future urban subcommittee	Sustainable Society	Dissemination of future intellectual infrastructure models	Osaka University	Field of JST co-creation

Many research institutions from industry, government, and academia are scheduled to participate

Action of Subcommittees

3rd Subcommittee Meeting

Aug. 31st, 2023 (Thu.)
Subcommittee : 44, Observers : 8, BiocK : 11

1. Opening remarks by Chair Sawada
2. Activities of new subcommittees
3. Utilization of Data
   (1) Issues on data utilization
   (2) Talk Session
   (Moderator: Chair Ms.Sawada)
4. Startup supports
5. Talk Session for Successful Open Innovation
   ((Moderator: Mr. Sakata, Vice Chairperson and General Coordinator)
6. Closing remarks (Vice Chairperson: Mr. Morotomi)

Promoting collaboration among subcommittees

- **Discussion of common issues**
- **Utilization of data**
- **Open innovation**

4th Subcommittee Meeting

Aug 29, 2024 (Thu.) (TBD)

Events organized by subcommittees

MedTech Innovation Subcommittee
Feb 26, 2024 (Mon.)
BiocK MedTech Innovation Subcommittee Kick-off Symposium

Analysis & Metrology Subcommittee
Mar 19, 2024 (Tue.)
8th Liquid Chromatography Mass Spectrometry (LCMS) Seminar《Lecture》

Space Biology Experiments Subcommittee
Mar 19, 2024 (Tue.)
BiocK Space Biology Experiments Subcommittee Kick-off Event & Growth Industry Development Consortium Promotion Project, Networking "Space x Life Science in Kobe.

Photonics and Bioengineering Subcommittee
Jun 12, 2024 (Wed.)
MEDTEC Entrepreneurship Symposium - Creating an ecosystem that brings together academia and business

Other

Subcommittee Mapping

Light Blue: Subcommittee of Open Innovation from Businesses
Dark blue: Subcommittee of collaboration with Industry-Government-Academia projects

Environment&Energy

Biomethane Subcommittee

Plastics Subcommittee

Biomass Subcommittee

Carbon Neutral Recycling- based society with zero waste

Smart Cultivation Subcommittee

Food Loss Subcommittee

Wood and CLT Utilization DX Subcommittee

KODOBOKU Technology Utilizing Forest Environment Subcommittee

Digital Green Subcommittee

Digital × Green

Food & Primary Production

Aspergillus (Japanese yeast) Wellbeing Subcommittee

Between tea consumption and frailty research Subcommittee

Good Health

Healthcare

Medical Care

Regenerative Medicine Subcommittee

Cell culture Subcommittee

Modality Subcommittee

MEDTEC Innovation Subcommittee

Mental Health Subcommittee

Personal Data Subcommittee

Digital Bio-health Subcommittee

Vision to Connect Subcommittee

Health Equity DX Subcommittee

Kenko-Kansu(Health Algorithm)Subcommittee

Integration

Big Data Healthcare Subcommittee

Digital x Health

Lifestyle DX Subcommittee

New Value Proposals in Restroom Spaces Subcommittee

Biotech Manufacturing

Biofoundry Cluster Subcommittee

Analysis & Metrology Subcommittee

White Bio Subcommittee

Bio-industry HR Development Subcommittee

New Business Development

Subcommittee on Changing the World of Biotechnology with Sound

Space Bio Experiment Subcommittee

Photonics Subcommittee

Futuristic City Subcommittee

Platforms

Start-up Subcommittee

Achieving Successful Open Innovation

Third Subcommittee Meeting (2023.8.31) Talk Session
According to the discussion at the Bio-Strategy Talk Seminar (2023.8.1)

Society Issues and the Theme

- How we see **Global Society's Issues**
- How Biotechnology can solve the issues
- Setting themes that can be commercialized

Private sector based

- Need private-sector support for **commercialization**
- Commitment of company executives is essential.

How to work on

- Workshops that involve citizens, young people and others would also be effective.
- **Start with** a small scale for advanced projects.

Manpower

- Recruitment of open innovation personnel
- **Intrapreneurs**
- Hard to develop business by technical department only
- Developing biotech human resources is also necessary.

Collaboration with Academia

- Academia seeds to be commercialized by companies or ventures
- Need to have **experts** in seeds
- The concept of academia collaborating with companies to solve social issues is also important.

The Core of Open Innovation

Concept

What to do

- Working on real issues in society
- Challenges that cannot be solved by a company alone
- Design for Innovation

Communications

Get support from others

- Coordinate specialists
- Personality, ability to obtain information, expressive ability, on-site skills, and intuition skills.

Role of the Startup

- **Leading role for promoting innovation**
- It also serves as **a bridge between academia and business**
- Establish a venture that becomes a flagship
- Company that creates end products
- CXO Human Resource Development
- Entrepreneurial training is classroom + practice
- Promoting investment in startups

Collaboration with government

- Obtaining national funds
- Collaboration with local authorities is important for smart cities, recycling, energy etc.

More collaboration

- Digital and AI incorporation
- Benefits with different stakeholders
- Collaboration across various businesses and industries
- **International Collaboration**

Utilization of Data

- Data is essential in the healthcare
- Data is also critical in the agricultural and environmental fields.

Features of Kansai

- Has a face-to-face community.
- **Open and frank discussions**
- Suitable for innovation development
- Need to activate the discussion meetings (salon)

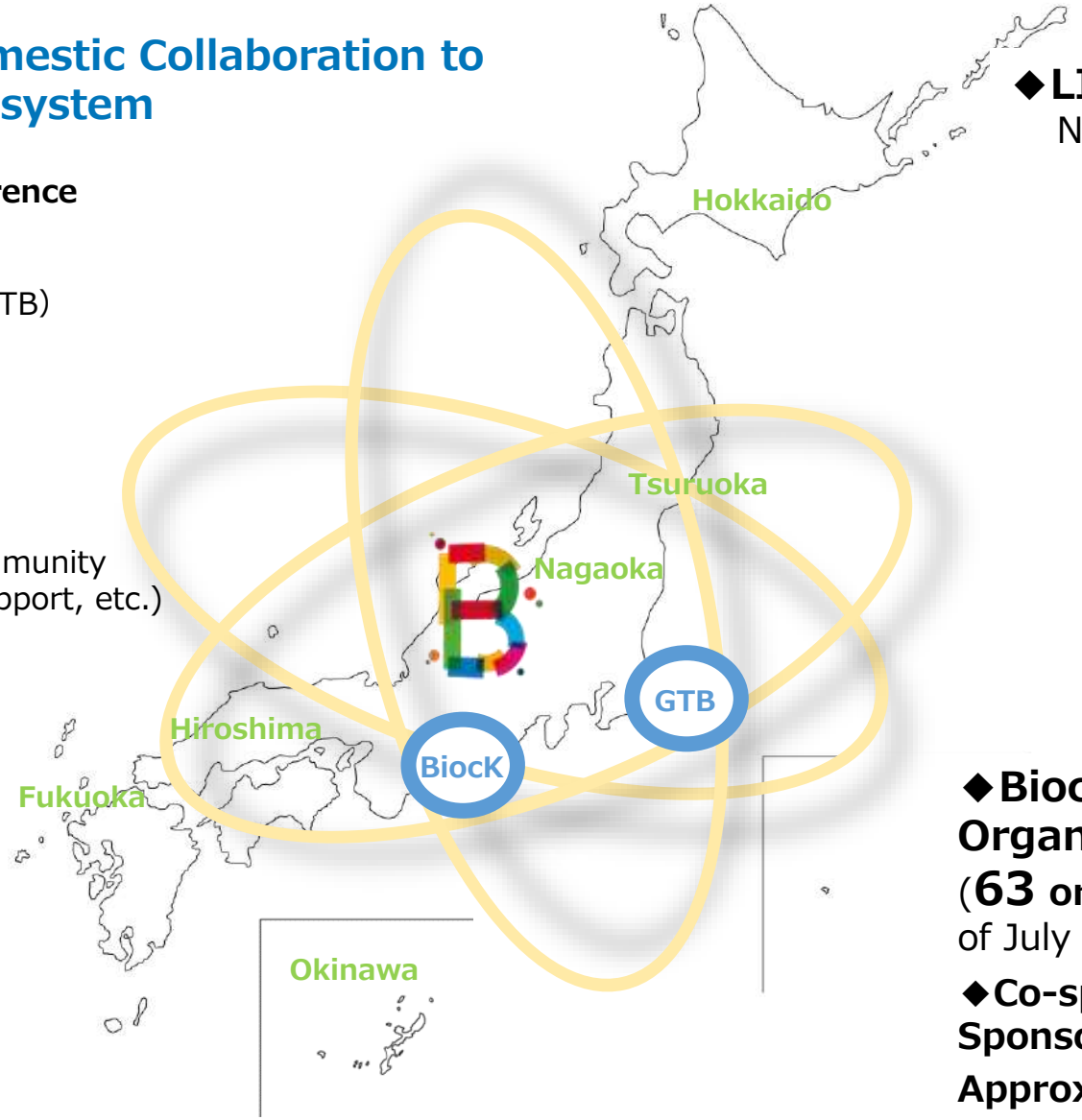
Action Plan(2) Creating Networks

Domestic Collaboration

Expediting Domestic Collaboration to Build a Bio ecosystem

◆2nd Biocommunity Collaboration Conference
November 27 to 28, 2023, Fukuoka**,**
Global : Biocommunity Kansai（BiocK）
Greater Tokyo Biocommunity （GTB）
Regional : Hokkaido Prime Biocommunity
Tsuruoka Biocommunity
Nagaoka Biocommunity
Fukuoka Biocommunity
Hiroshima Bio-DX-Community
Okinawa Biocommunity
-Discussion on issues common in the bio-community
(financing of operation costs and start-up support, etc.)

◆Kyoto-Osaka-Kobe Collaboration meeting
April 27, 2023 Osaka
June 15, 2023 Kobe
July 26, 2023 Kyoto
September 13, 2023 Osaka
December 6, 2023 Kobe
February 21, 2023 Kyoto
Participants: Osaka Prefecture, Kyoto City, Kobe City, BiocK
Discussion on international event plans and start-up support activities, etc.



◆LINK-J NEWS LETTER
Nov,2023

◆BiocK Collaborating Organizations
(**63 organizations in Japan** - As of July 1, 2024)

◆Co-sponsorship, Partnership, and Sponsorship of seminars, etc.
Approx. 100 per year

Action plan(2)　Creating Networks

Domestic collaboration

Expand the network through business matching and organizing seminars and symposiums.

◆Business Matching

Kansai Bio Business Matching Online
Jan-Feb 2024

Exhibitors　　: 121

Participants　　: 225

Business meetings : 320

Pitches　　: 49

Matching support : 33

◆Seminar & Symposium

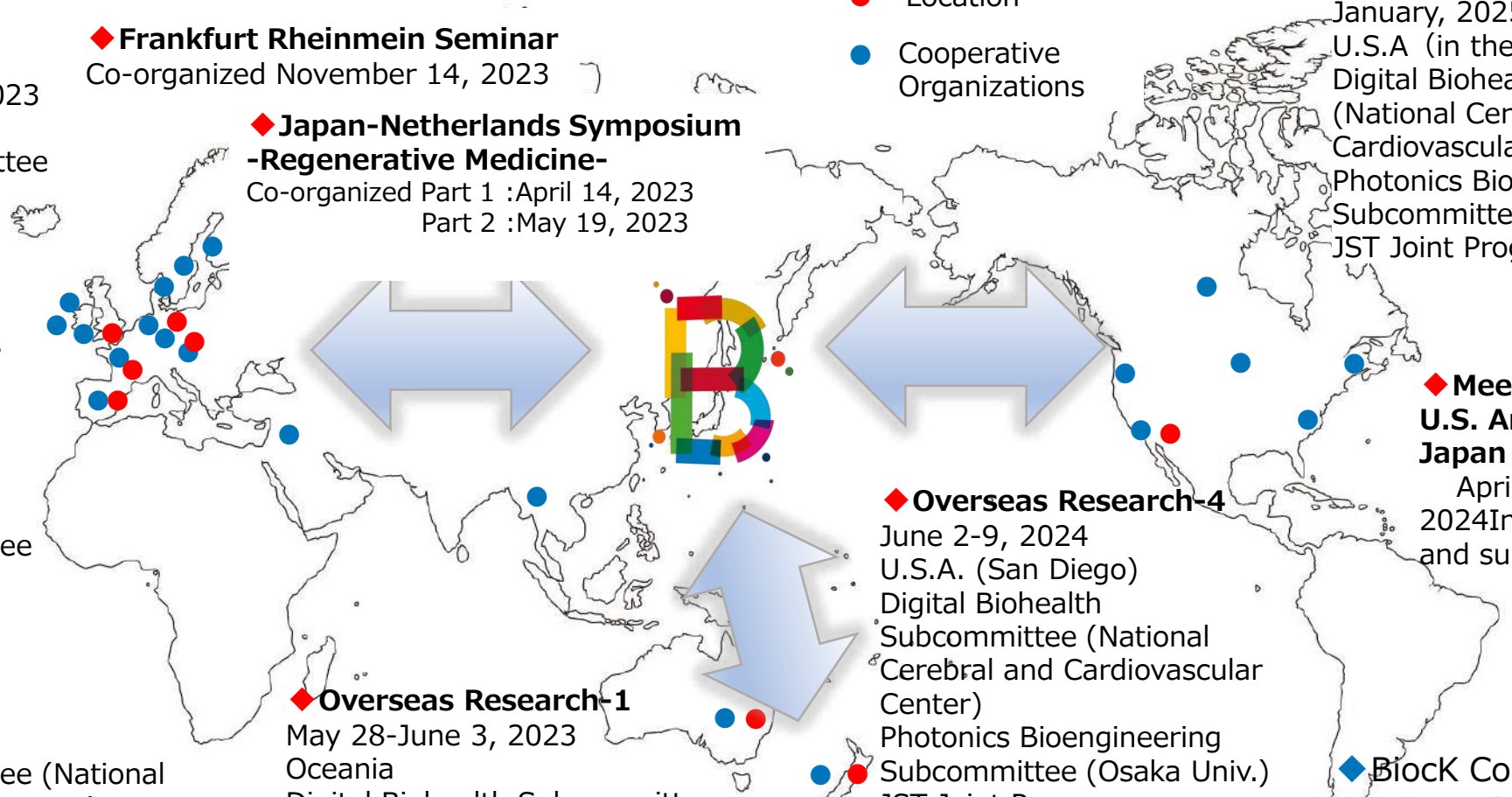
Bio Strategy Talk Seminar
The Key to Success through Open Innovation
August 3rd, 2023

Bio Strategy Talk Seminar
History and Evolution of Bio clusters in the Kansai Region
December 1, 2023

Action plan （2）Creating Networks

International Collaboration

Planning new collaborative projects through exchanges with various countries



◆**Overseas research-2**
October 29-November 9, 2023
Netherlands, UK
Digital Biohealth Subcommittee (National Cerebral and Cardiovascular Center)
JST Joint Program

◆**Frankfurt Rheinmein Seminar**
Co-organized November 14, 2023

◆**Japan-Netherlands Symposium -Regenerative Medicine-**
Co-organized Part 1 :April 14, 2023
Part 2 :May 19, 2023

◆**Overseas Research-6**
January, 2025
U.S.A (in the works)
Digital Biohealth Subcommittee (National Cerebral and Cardiovascular Center)
Photonics Bioengineering Subcommittee (Osaka Univ.)
JST Joint Program

◆**UK-Japan Healthcare Symposium -Healthy Ageing-**
February 20, 2024

◆**Overseas Research-3**
January 13-21, 2024
Spain and France
Digital Biohealth Subcommittee (National Cerebral and Cardiovascular Center)
JST Joint Program

◆**Meeting with the U.S. Ambassador to Japan**
April 17, 2024Introducing BiocK and subcommittees

◆**Overseas Research-4**
June 2-9, 2024
U.S.A. (San Diego)
Digital Biohealth Subcommittee (National Cerebral and Cardiovascular Center)
Photonics Bioengineering Subcommittee (Osaka Univ.)
JST Joint Program

◆**Overseas Research-5**
Fall 2024, Europe (TBD)
Digital Biohealth Subcommittee (National Cerebral and Cardiovascular Center)
Photonics Bioengineering Subcommittee (Osaka Univ.)
JST Joint Program

◆**Overseas Research-1**
May 28-June 3, 2023
Oceania
Digital Biohealth Subcommittee (National Cerebral and Cardiovascular Center)
JST Joint Program

◆BiocK Collaborative Organizations
38 International Organizations
(As of July 1, 2024)

Action Plan (3) Disseminating information

Dissemination of Bioinformation from Kansai

- ✓ Information on activities and potential in Kansai;
- ✓ Information involving citizens;
- ✓ Information regarding economic security

Building Kansai Brand

- ✓ Osaka, Kyoto, and Kobe are well known, but recognition of Kansai is not high
- ✓ To improve the value and recognition of the Kansai brand by disseminating bio-information across the Kansai

Osaka / Kansai Expo2025

- ✓ It is a great opportunity to appeal to the world, and BiocK will participate in verification experiments.
- ✓ Take this opportunity to achieve realization in society.

OSAKA, KANSAI, JAPAN EXPO2025

Logo, homepage, pamphlet, movie, seminar, symposium, individual meeting, and more

Visit our website !

BiocK

https://biock.jp/

- Event Information
- Subcommittees
- Collaborative Organizations

Action Plan (3) Disseminating information

Activities Description

Seminars, interviews, publications, etc.

U-FINO×BiocK Symposium
December 20, 2023
Speaker: Mr. Sakata, Vice-Chairman and General Coordinator
Current Status of Biocommunity Kansai (BiocK): From “Accumulation” to “Collaboration” -

BioJapan 2023
Biocommunity Certificate Awarding Ceremony
October 12, 2023
Speaker: Mr. Takada, Secretary General
“Commitment of the Biocommunity Kansai”

Meet with U.S. Ambassador to Japan, Mr. Rahm Emanuel
April 17, 2024
Presentation about BiocK and its subcommittees

Information on the BiocK website

Launched Advisors' Profile Page
March 2024

Event information on related organizations
Posting on websites and sending newsletters: about 120 per year

Announcements from BiocK and other organizations
Posting on website and sending newsletters: about 50 per year

Action Plan（3） Disseminating information

Bioeconomy Hub Japan 2024

Date: April 19, 2024
Venue: Grand Front Osaka
Organization: Bioeconomy Hub Japan Committee
Theme: Planetary Health
～How Innovation by Bioeconomy can Realize Planetary Health～

Bioeconomy Hub Japan 2025 （TBD）

Date: April 17 & 18, 2025
Place: Herbis Hall (Umeda, Osaka)
Organization: Bioeconomy Hub Japan Committee
Theme: Planetary Health
～How Innovation by Bioeconomy can Realize Planetary Health～

Specialists from a wide range of fields and 400 participants from Japan and overseas will discuss how the bioeconomy society can achieve the goals of our bio-community and contribute to “planetary health,” which is being discussed as a global social issue.

Bioeconomy Hub Japan 2025