Biocommunity Kansai (BiocK)

From “Accumulation” to “Collaboration”

Secretariat
NPO Kinki Bio-Industry Development Organization
Urban Innovation Institute

BiocK
Biocommunity Kansai

Overview on Bioeconomy Strategy of the Cabinet Office

Point of “Bioeconomy strategy follow-up”

- We formulated Bio Strategy 2019 and Bio Strategy 2020 as our overall targets to achieve the world's most advanced bio-economy society in 2030. We set targets for each market area and promote initiatives, based on such basic policies as a backcast, to expand our market areas.
- In addition to the 6th basic plan, considering the situation change, such as acceleration of the act with climate change issue, vaccination, and medicine, we will enhance specific initiatives, show the actual plan of the strategy and “Biostrategy follow-up” by brushing up the existing strategies.

Expansion of Biotechnology related markets

Promote market category policy aiming for the market size of ￥92trillion in 2030

Target market size in 2030

※1 2025
※2 Market size is out of public health care service

Bio-manufacturing

High function bio-material, bio-plastic, bio-production-system etc.
￥53.3trillion ← ￥32.5trillion (2018)

- Development and production systems for the development of biotechnology products
- Promotion of efforts to support the development of production facilities and technologies based on the bioplastic introduction roadmap and to procure the government's initiative

Primary production

Sustainable primary production system
￥1.7trillion ← ￥0.3trillion (2018)
Large scale building using wooden, smart forestry
￥1.0trillion ← ￥0.5trillion (2018)

- Promotion of initiatives at each stage from production to consumption and innovations such as carbon neutrality based on “Green food system strategy”
- Attempt of design technology of large building by using wood

Health care

Lifestyle improvement healthcare, functional food, etc. ￥33.0trillion※1 ← ¥25trillion (2016) ※2
Bio-medicine/regenerative medicine
¥3.3trillion ← 1.5trillion (2020)

- Strengthen biopharmaceutical development and production systems, including implementation of initiatives based on the Strategy for Strengthening Vaccine Development and Production Systems.
- Building a Large-Scale Genomic Data Base with Results from 3 major bio-bank

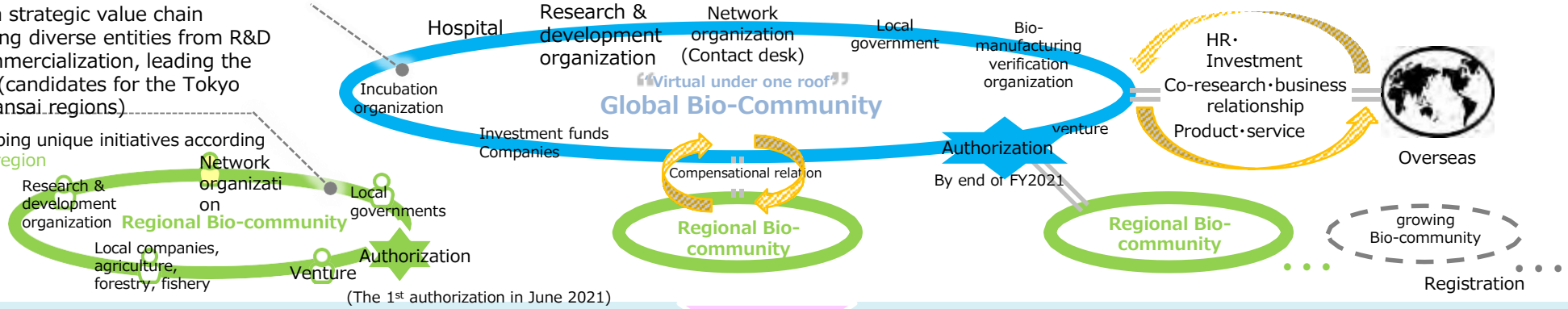
Formation of Bio-community

A system to attract human resources and investment and supply products and services to the market

Establish value chain in each market by forming unique communities and supporting growth continuously in the country

Build a strategic value chain involving diverse entities from R&D to commercialization, leading the world (candidates for the Tokyo and Kansai regions)

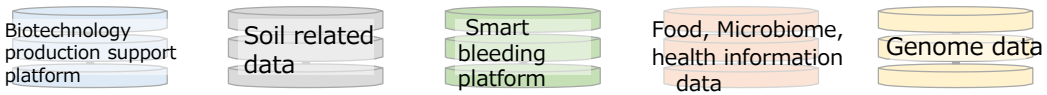
Developing unique initiatives according to the region



Data platform establishment

Data infrastructure necessary for research & development・Commercialization

Based on the common efforts of the entire government such as the Digital Agency, build an environment that enables a wide range of flexible data linkage including different fields



+ Guidelines for coordination and utilization of biodata (tentative name)
(To be established in FY2022)

Image of society and market category

Reference

〔 Image of society 〕

- Circulating society in which all industries are linked
- Society where sustainable primary production is performed to fill the diverse needs
- Society where materials are produced by sustainable production method
- A society where medical care and healthcare are linked, and people can participate in society for a long time

〔Market category〕

①	**High functional bio-material (lightness endurance, safety)** Coordinating ministry METI	• Expected expansion of the lightweight and tough biomaterial market • Strengths in Material Technology and Utilization Areas (Vehicles, etc.)
②	**Bio-plastic (replacement of ordinary plastic)** Coordinating ministry METI	• Environmental contamination by ocean plastic garbage is a global issue • Strengthens the expertise in proper treatment and 3R of plastic materials
③	**Sustainable primary production system** Coordinating ministry MAFF	• Improving agricultural productivity in rapidly growing Asia and Africa is a challenge and expanding dietary needs • Strengths in world-level smart agricultural technologies
④	**Organic waste ・organic wastewater treatment** Coordinating ministry METI	• Growth in Asia and elsewhere is expected to expand the waste treatment and environmental cleanup-related market • Strengthens the world's highest level of waste and wastewater treatment
⑤	**Lifestyle improvement health care, functional foods, digital health** Coordinating ministry METI	• Increase in lifestyle-related diseases, expansion of health-related markets. Countries focus on digital health. • Strength in health data as a country with longevity
⑥	**Biopharmacy, regenerative medicine, cell medicine, gene therapy-related industry** Coordinating ministry Health and Medical Strategy Office	• Full-scale industrialization of biopharmaceuticals, etc. and the creation of large markets are expected • Strengths in traditional basic research and cell culture techniques
⑦	**Bio-production system (Industry･food production(production by using biological function))** Coordinating ministry METI	• Production technologies using biological functions are growing rapidly, mainly in the United States. • Strengths in Microbial Resources, Biological Resources, and Fermentation Technologies
⑧	**Bio-related analysis, measurement, experiment system** Coordinating ministry METI	• As a basis of bio-industry, big expansion is expected. • Strength in advanced measurement technologies, robotics and other elemental technologies
⑨	**Large scale building with wood, smart forestry** Coordinating ministry Forestry Agency	• Wooden structure effectively reduce greenhouse gas and draws attention mainly in Europe and North America. • Strengths in smart forestry in future, wood building technologies, beautiful design, and construction management

Make roadmap of market category

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;
- ✓ Biorelated contract manufacturing organization (CMO) and contract development & manufacturing; organization (CDMO) businesses have been actively expanded in recent years.

Accumulation of advanced research & development organization

- ✓ 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;
- ✓ There are many research & development-type private companies;
- ✓ Diverse clusters in a wide range of fields have been developed and are compactly integrated.

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.

Challenges

- ✓ Lack of venture mindset, human resources and funds;
- ✓ Startup awareness is low;
- ✓ Lack of CXO human resources responsible for the management;
- ✓ There is no cohesiveness as Kansai.

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.

Accumulation of bio-industry and research bases in Kansai

Industrial clusters with diversity and depth

Kansai's proud concentration of research centers

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
Kinki Bio-Industry Development Organization
Urban Innovation Institute

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"

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

*Keihanshin startup academia coalition
** Kansai Innovation Initiative

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**
Key word	**Shifting from “Accumulation” to “Collaboration”**

Name

Biocommunity Kansai
Abbreviation: BiocK

Establishment

July 1st, 2021

Certification

April 22, 2022

(Global bio-community certification by the Japanese cabinet office)

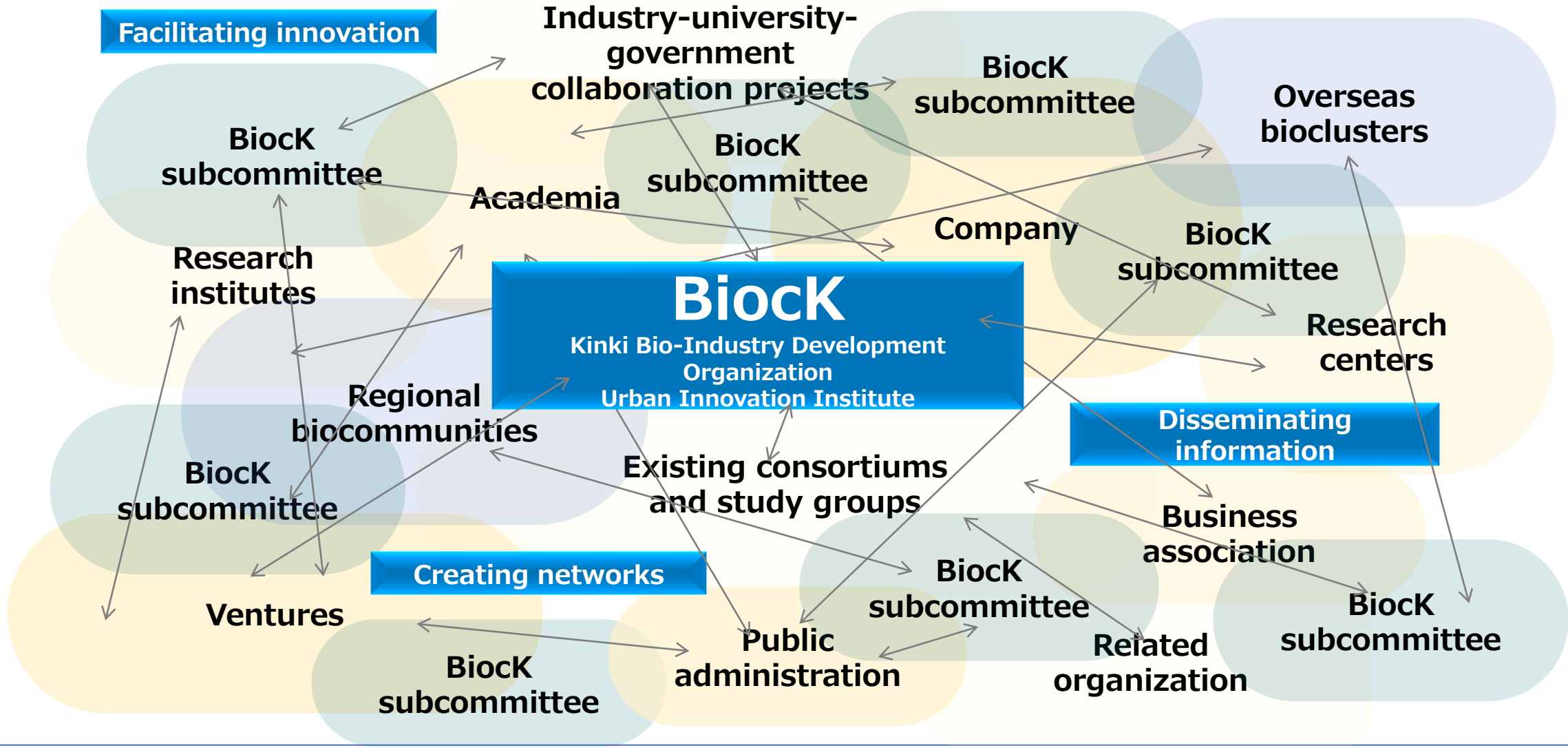
Action plan

1. Facilitating innovation;
2. Creating networks;
3. Disseminating information.

How the biocommunity should be:

- ✓ Making a community focusing on industry;
- ✓ Strengthening collaboration across all of the biocommunity;
- ✓ Leading to new innovation.

Shifting from “Accumulation” to “Collaboration”



Organization of Biocommunity Kansai

Biocommunity Kansai (BiocK)

Committee

Secretariat
Kinki Bio-Industry Development Organization
Urban Innovation Institute

Adviser
(Expert)

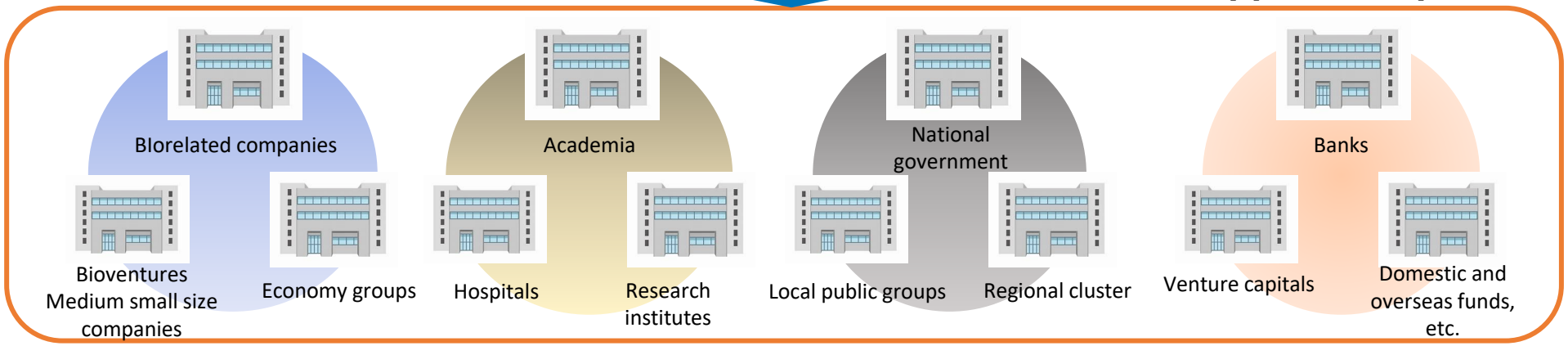
Sub-committee 1 | Sub-committee 2 | Sub-committee 3 | Sub-committee 4 | Sub-committee 5

Partner Organizations

Base : Umekita 2nd phase (Plan)

Kansai area
Osaka
Hyogo
Kyoto
Wakayama
Tokushima
Tottori
Fukui
Nara
Shiga

Collaboration・Support・Cooperation



Biocommunity Kansai committee organization

As of October 1st, 2023

Committees

Chairperson of the committee	Takuko Sawada	Chairman, Kansai Economic Federation Venture Ecosystem Committee
Vice chairperson of the committee	Ryuichi Morotomi	Vice Chairman, Venture Ecosystem Committee, Kansai Economic Federation Chairman, Kansai Association of Corporate Executives "Bridge Forum Committee"
Vice Chairperson of the committee, Executive Supervisor	Tsuneaki Sakata, Ph.D.	Chairman, NPO Kinki Bio-Industry Development Organization Vice Chairman, 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.
Tokushima Pref.
Tottori Pref., Nara Pref.
Wakayama Pref., Shiga Pref.
Sakai city, Fukui Pref.

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, we'll 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

Special attention will be given to the following issues, which will be the basis for all activities, and subcommittees will be formed to address them

category	Task	Direction of efforts
Startup support	Lack of venture mindset, human resources, and funds; Low recognition from 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.); Series B and subsequent funding; 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

As of October 1, 2023

Name of the subcommittee	Social Issues Areas	Content of Efforts	Leadership Organization
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
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
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)

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

Companies" and "Industry-Academia-Government Collaboration Projects" that will play a central role in the new subcommittee are now being recruited.

Subcommittee

As of October 1, 2023

Name of the subcommittee	Social Issues Areas	Content of Efforts	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
Well-being with bright eyes subcommittee	Healthcare	Social implementation of happy lifestyles through digital health big data with a focus on ophthalmology	Tohoku University	Field of JST co-creation
Food loss subcommittee	Continuous primary production system	Innovative low food loss co-creation base	Osaka University	Field of JST co-creation
Future urban subcommittee	Sustainable society	Dissemination of future intellectual infrastructure models	Osaka University	Field of JST co-creation
Biomass subcommittee	Carbon neutral	Realization of carbon zero emissions through biomass technology	Tokyo University of Agriculture and Technology (TUAT)	Field of JST co-creation
Subcommittee on cell production	Regenerative medicine	Construction of an ecosystem for cell production	Osaka University	AMED
Regenerative Medicine subcommittee ～kansai Regenerative therapy initiative～ (kRi)	Regenerative medicine	Evolve regenerative medicine by building a regenerative medicine ecosystem, social enlightenment, human resource development, and global Expansion	Osaka University	
Subcommittee on modality	Healthcare	Manufacture of antibodies, gene therapy products, and vaccines	Manufacturing Technology Association of Biologics (MAB)	AMED・NEDO
White bioindustry subcommittee	White bioindustry	Biofoundry business	Osaka University (representative sponsor)	NEDO
Human Resource Development in industrial Bio-production fields	Supporting trial manufacturing and educating engineers in bioindustry fields	Biofoundry business	Osaka Institute of Technology	NEDO
Subcommittee on digital green	Continuous primary production system / Digital healthcare/ Bioproduction system	Realization of a sustainable society in which Keihanna Science City and nearby rural villages complement each other	Nara Institute of Science and Technology	
Health Functions Quotient	Prediction of and Prevention from Health Vulnerability	Maximize Personalized Health	Kobe University and RIKEN	

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

Action of Subcommittees

2nd subcommittee meeting
Aug 31, 2022
Activity reports from 19 subcommittees

3rd subcommittee meeting
Aug 31, 2023

Dissemination of information from subcommittees
On BiocK's website(https://biock.jp/en/activity/)

Composition of the subcommittees and how to proceed with the activities:

1 Identification of social issues

Social issues for the year 2050
- Environment and energy
- Healthcare
- Sustainable primary production system
- Startup support

2 Determination of themes

Themes are determined based on proposals from different institutions.
- Themes are long-term issues that cannot be solved by only one institution.
- Themes will be promoted through open innovation.
- A 5-year plan will be formulated for each theme.

3 Formation of a consortium

Promotion of collaboration
- Collaboration with the industry and academia
- Collaboration with the government
- Cooperation on existing projects
- Cooperation in different fields
- Creation of opportunities for collaboration

4 Activity support

Support measures
- Use of existing facilities
- Use of public subsidies
- Attracting investment
- Evaluation mechanism

List of BiocK Subcommittees

Biomethane subcommittee Environment and energy

Content of Efforts : Carbon neutralization of energy
Leadership Organization : Osaka Gas Co., Ltd.
Material : PDF

Plastic subcommittee Environment and energy

Content of Efforts : Bioplastic & Plastic resource recycling
Leadership Organization : Saraya Co., Ltd.
Material : PDF

Action plan （2）Creating networks

As of October 1, 2023

Domestic collaboration

Accelerating domestic collaboration to form a bioecosystem

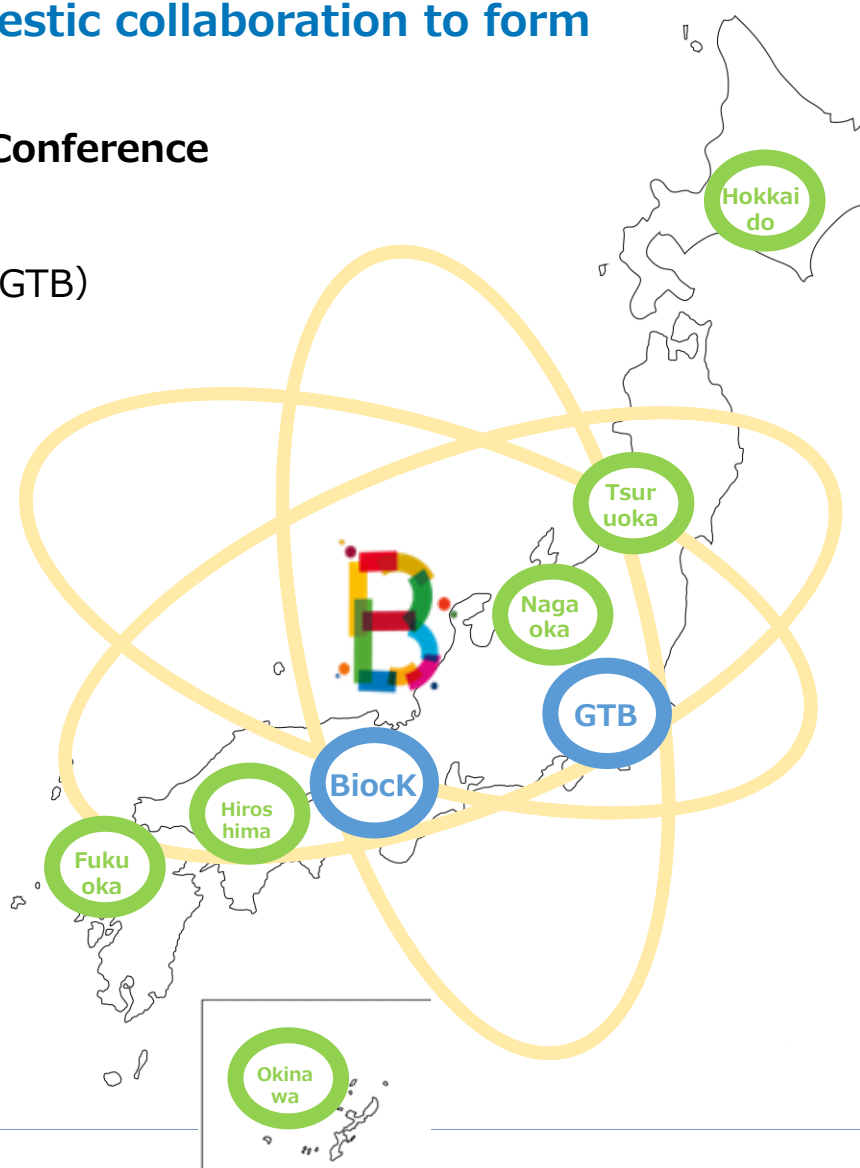
◆The 1st Biocommunity Collaboration Conference

February 2nd, 2022

Global : Biocommunity Kansai（BiocK）
Greater Tokyo Biocommunity （GTB）

Regional : Hokkaido Prime Biocommunity
Tsuruoka Biocommunity
Nagaoka Biocommunity
Fukuoka Biocommunity
Hiroshima Bio-DX-Community
Okinawa Biocommunity

◆Kyoto-Osaka-Kobe collaboration meeting（held once every 1-2 months）



◆Partner Organizations (58 organizations (in Japan))

CiRA Foundation
Cloud Security Alliance Japan Chapter Inc.
Foundation for Biomedical Research and Innovation at Kobe.
GENERAL INCORPORATED ASSOCIATION PHR COUNCIL
Gunma Green Innovation Platform (G-GIP)
Hiroshima Bio DX Community
HOKKAIDO UNIVERSITY
Japan Hydrogen Association
Japan MA-T Industrial Association
Japan Society of Northern California
Josho Gakuen Educational Foundation; OSAKA INSTITUTE OF TECHNOLOGY
Kansai Health and Medical Association
Kansai Innovation Initiative
KANSAI UNIVERSITY
KINDAI University
Kurume City
Kurume Research Park Co., Ltd.
Kyoto Municipal Institute of Industrial Technology and Culture
KYOTO MUNICIPAL INSTITUTE OF INDUSTRIAL TECHNOLOGY AND CULTURE
Kyoto Prefectural University
Kyoto Research Park Corp.
Life Science Incubation Council[Willsame Inc.]
Nagaoka Bioeconomy Consortium
NARA INSTITUTE of SCIENCE and TECHNOLOGY
National Center for Industrial Property Information and Training (INPIT)
National Research Institute of Brewing
New Energy and Industrial Technology Development Organization
NPO Recycling System Center
Okinawa BioCommunity
Okinawa Institute of Science and Technology Graduate University
Organization for Advanced Healthcare Innovation
Organization for Engineering Biology
Osaka Business and Investment Center
OSAKA BUSINESS DEVELOPMENT AGENCY
OSAKA CONVENTION & TOURISM BUREAU
Osaka Science & Technology Center
Osaka University Hospital Department of Medical Innovation
PhotoLIFE (PhotoBIO-OIL)
PMK initiative
Public Foundation of Kansai Research Institute
Public Interest Incorporated Foundation Senri Life Science Foundatioin
Region-wide Industrial Promotion Bureau, Union of Kansai Governments
Research Institute of Innovative Technology for the Earth
RIKEN BioResource Research Center
RIKEN Center for Computational Science
RIKEN SPring-8 Center.
SAMURAI Biotech Association
Shiga Bio-Industry Organization
Shiga Prefecture
The Doshisha
The New Industry Research Organization (NIRO)
THE RITSUMEIKAN TRUST
Toyama Pharmaceutical Valley Development Consortium
Tsuruoka Science Park
Umekita Future INnovation Organization
UNIVERSITY OF FUKUI
University of Yamanashi
Japan Association for Techno-innovation in Agriculture, Forestry and Fisheries

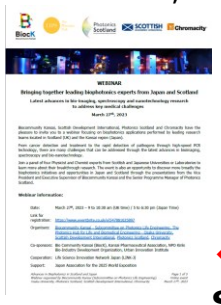
Action plan （2）Creating networks

As of October 1, 2023

International collaboration

Promoting information exchange through cooperative projects with other countries.

◆**Japan×UK（Scotland）Biophotonics Advanced Research Update**
Subcommittee sponsorship
Mar 27, 2023



◆**Japan-the Netherlands joint symposium -regenerative medicine-**
Co-sponsorship Apr 14, 2023 & May 19, 2023

◆**Overseas survey**
(Scheduled for FY2023) Europe

◆**Overseas survey** (Scheduled for FY2023) Israel

◆**Governor of Colorado Visits Osaka**
Mar 31, 2023
Osaka univ.

◆**Japan-UK healthcare symposium**
Co-sponsorship Feb 27, 2023

◆**Overseas survey**
May 28-June 3, 2023
Oceania
Subcommittee on digital biohealth

Partner Organizations

◆**Partner Organizations**
(38 organizations (overseas))

Auckland UniServices Limited
Australian Embassy Tokyo
Bioindustry Park Silvano Fumero - bioPmed Piemonte Innovation Cluster
British Consulate-General
Business Oregon
Consortium for Medical Device Technologies (CMDT)
Consulate of Canada in Nagoya
Consulate of Switzerland in Osaka
Consulate-General of France in Kyoto
Consulate-General of Germany in Osaka-Kobe
Délégation générale du Québec à Tokyo
Economic Development Partnership of North Carolina Japan Office
Embassy of Finland in Japan
Embassy of Israel in Japan Economic & Trade Mission
Embassy of Sweden
Flanders Investment & Trade
High Value Nutrition NSC
ICEX Trade and Investment
IDA Ireland
Invest in Bavaria
Life Science Nord Management GmbH
Lyonbiopole
Maurice Wilkins Centre
MedTech Actuator
Minnesota Department of Employment and Economic Development
Netherlands consulate-general in Osaka
NZ Product Accelerator
NZTE
Oxford University Innovation, Representative in Japan
Pistoia Alliance
Royal Danish Embassy in Japan
Royal Thai Consulate-General,Osaka
Scottish Development International
Techion Group Limited
the U.S. Consulate in Osaka-Kobe
University of Otago
University Philanthropy
Victorian Government Business Office Tokyo

Action Plan（3） Disseminating information

Dissemination of Bioinformation from Kansai

- ✓ Dissemination of information on activities and potential in Kansai;
- ✓ Information dissemination involving citizens;
- ✓ Transmission of information regarding economic security.

Building Kansai brand

- ✓ Awareness of Osaka, Kyoto, and Kobe is high, but awareness of Kansai is low;
- ✓ We would like to contribute to establishing and improving the value of the Kansai brand by disseminating bioinformation as a whole Kansai.

Osaka / Kansai Expo2025

- ✓ Participating in the demonstration of experiments;
- ✓ Realizing social implementation;
- ✓ Making a chance to appeal to the World.

OSAKA, KANSAI, JAPAN EXPO2025

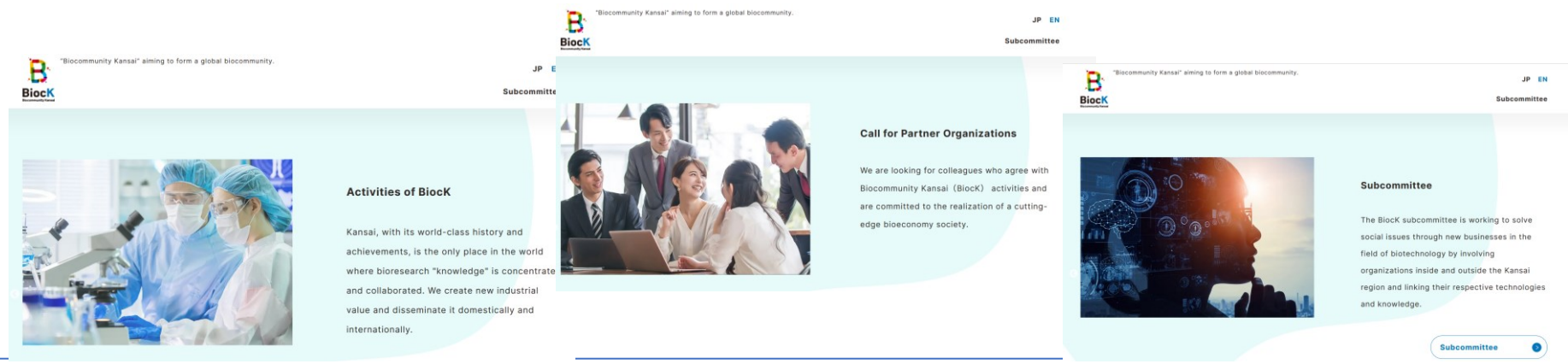
Logo, homepage, pamphlet, movie, seminar, symposium, individual meeting, and others,

Visit our website !

BiocK

https://biock.jp/en

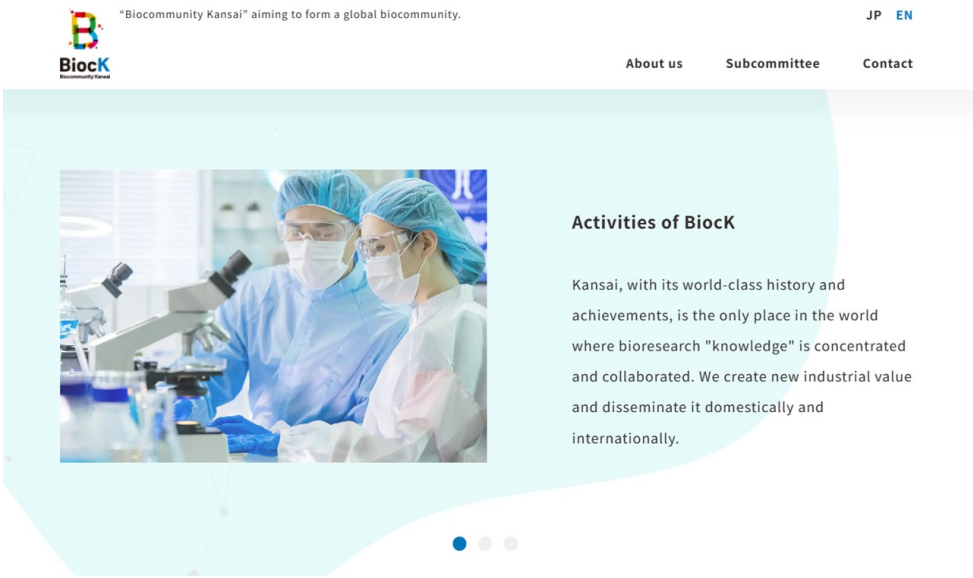
- ■ Information
- ■ Subcommittee



Action Plan（3） Disseminating information

BioJapan2022
Oct, 2022

English website launched
Oct, 2022



International Symposium being planned

Theme : Planetary health
Format : International Symposium
Date : April 17 and 18, 2025
Place : TBD

Announcements from BiocK and each organization
Put on the website, Mail magazine : Approx. 50 per year