

Fostering the Bioeconomy through EU-Japan Partnership to solve global social issues

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Global Trends in the Bioeconomy

Bioeconomy: Solving global social issues (climate change, food shortages, infectious diseases, etc.) through using biological resources and biotechnology, and achieving both economic growth and a sustainable, recycling-oriented society.

OECD : “The Bioeconomy to 2030” (2009)

- The global biotechnology market is expected to reach approximately 1.6 trillion USD by 2030 (Industrial : 39%, Agriculture: 36%, Health: 25%.)

EU: “Innovation for Sustainable Growth: A Bioeconomy for Europe” (2012)

US: “National Bioeconomy Blueprint” (2012)

JAPAN: The Bioeconomy Strategy (2019)

49 countries have developed strategies related to the bioeconomy.



Ref : METI Subcommittee on Biotechnology of committee on Commerce, Distribution and Information

Progress in Japan's Bioeconomy Strategy

2019

← Formulated Japan's Bioeconomy Strategy (Grand design and action plan to be updated annually)

COVID-19
Pandemic

← Certified Regional Bio-communities (4 areas)

← Formulated "Strategy for Strengthening Vaccine Development and Production Systems"

- ✓ Establishment of SCARDA, an organization that leads vaccine development from basic research to commercialization
- ✓ Budgeted approximately 230 billion yen for the development of manufacturing infrastructure for vaccines and other biologics

2022

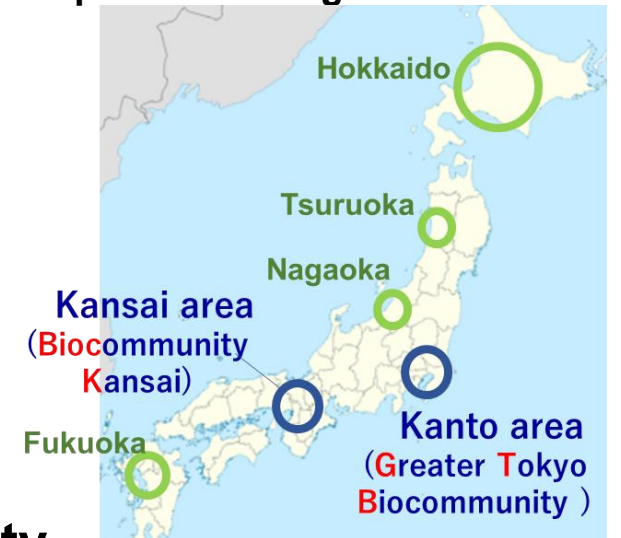
← Certified Global Bio-communities (2 locations in Kanto and Kansai areas)

- World-leading research environment and commercialization support system
- International bio-innovation hub
- Value chain involving diverse actors

2030

<Goals to be achieved by 2030>
Realizing "World's Most Advanced Bioeconomy" Society

Japanese leading Biocommunities



- Global Biocommunity
- Regional Biocommunity

Promotion of Bioeconomy, a key to solve global social issues

WP-2 continues to propose initiatives that should be taken in both the EU and Japan to realize both reduction of global environmental burden and industrial revitalization through using biotechnology.

Red-Bio : Prevention of Infectious diseases, creation of innovation and its appropriate evaluation (recommendations from WP-2 in the afternoon session)

Green-Bio : Establishment of a sustainable food system centering on agriculture

Issues	Measures (Items to be considered for proposal)
Reduction of environmental impact (greenhouse gas emissions, loss of biodiversity)	<ul style="list-style-type: none"> ✓ Reduction of risks of chemical pesticide and fertilizer use ✓ Utilization of biologically-derived resources
Response to food crisis (population growth/climate change/conflict and other factors)	<ul style="list-style-type: none"> ✓ Use of food tech (alternative foods, healthy and highly functional foods)

Recommendations from WP-2 in the afternoon session

White-Bio : Utilization of bioplastics to reduce environmental impact

Issues	Measures (Items to be considered for proposal)
Reduction of environmental impact (greenhouse gas emissions, loss of biodiversity)	<ul style="list-style-type: none"> ✓ Utilization of Biomass Plastics ✓ Utilization of Biodegradable Plastics

To be further considered

Aiming to establish a bioeconomy society with EU

- **Continuous exchange of ideas/information**
 - ✓ **Biotechnology / Human Resources**
 - ✓ **Sharing progress and challenges**
 - ✓ **Enhancing cooperation between bio-communities**
 - ✓ **Strengthening / expanding supply chain and value chain, etc.**
- **Harmonization and standardization of regulations and rules**
 - ✓ **Administrative procedures for the use of innovative technologies**
 - ✓ **Utilization and protection of bio-data, etc.**