

# Food loss and waste reduction innovation hub

Solving the issue of the worldwide food waste from fusion of literary science & technology

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#### Our project: 活動説明文章(英語)

According to the Food and Agriculture Organization of the United Nations (FAO), about 5 billion tons of food is produced annually in the world, but one-third of it is discarded, making food loss and waste a global social issue that not only wastes resources but also has a negative impact on the environment.

As a solution to this problem, Osaka University will solve the important issues of SDG 12.3, which is the basis for the formulation of the vision, through "Food DX" by focusing on the social implementation of "new technology related to food" and research teams working on "social problems related to food," aiming to create a society where food loss reduction and ethical consumption is realized.



## Description of our activity





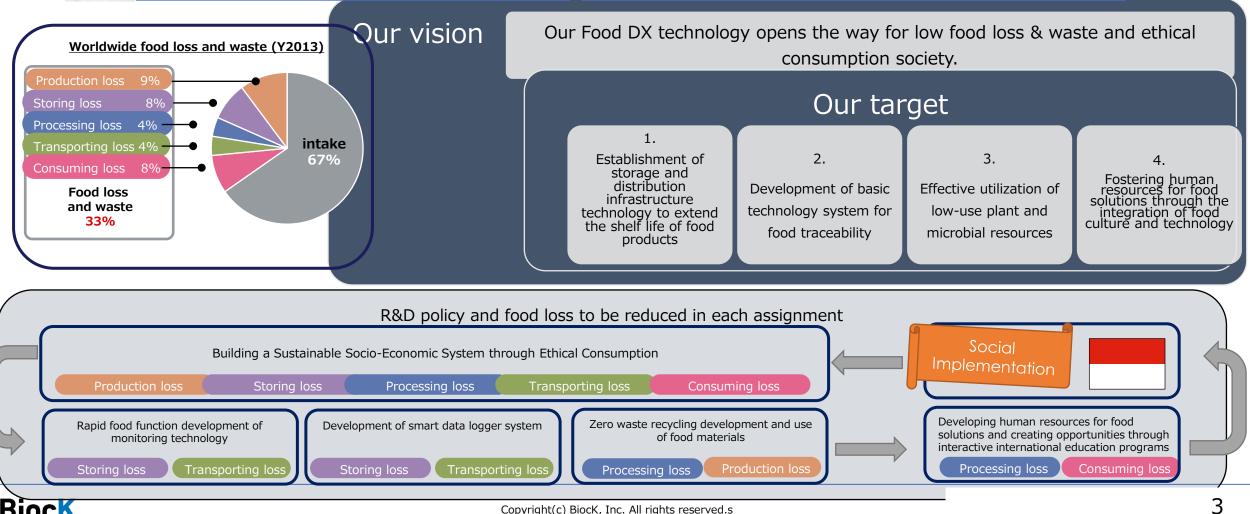
Biocommunity Kansa

Our hub solves problems related to food waste by promoting food loss reduction and ethical consumption through innovation using Food DX.



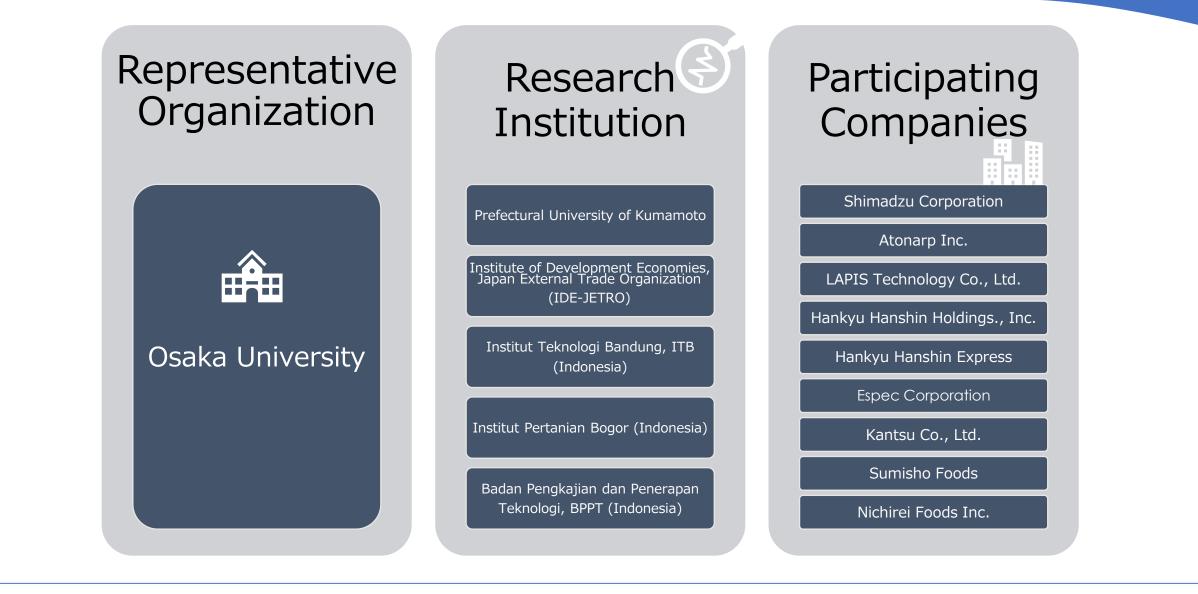
We will make all people in society happy and realize a society that is environmentally friendly and well connected through the food cycle.

活動説明·図表(英語)



### Participating Organizations 公開可能な産官学連携機関名













#### **Subcommittee**

As of August 1, 2022



#### **Content of Efforts** Leadership organization Name of the subcommittee Social Issues Area Remarks **Biomethane Subcommittee** Environment and energy Carbon neutralization of energy Osaka Gas Co., Ltd. Many Plastic subcommittee Environment and energy Bioplastic Saraya Co., Ltd. Mental Health Subcommittee Healthcare Improving social productivity Shionogi & Co., Ltd. Healthcare Nippon Telegraph and Telephone West Personal Data Subcommittee Use of personal data Corporation rch Wellbeing Subcommittee on Aspergillus Lifestyle modification healthcare Elucidation of health and cosmetic effects of Gekkeikan Sake Co., Ltd. institutions (National Bacteria) Asperaillus orvzae Smart Cultivation Subcommittee Continuous primary production Maximizing the use of biotechnology in the primary Yanmar Holdings Co., Ltd. industrv system **Biofoundry Cluster Subcommittee** Manufacturing Value Chain Bio manufacturing Baccus Bio innovation Co., Ltd. from industry, government, participate Start-up subcommittee Support for start-up Support for start-up in Kansai Sumitomo Mitsui Banking Corporation (SMBC) Overall Big Data Healthcare Subcommittee Biodigital Biogrid Center Kansai (non-profit) Social implementation of happy lifestyles through Well-Being with Bright Eyes Subcommittee Healthcare Tohoku University digital health big data with a focus on ophthalmology Subcommittee on Digital Green Continuous primary production Realization of a sustainable society in which NARA INSTITUTE of SCIENCE and system / Digital Healthcare/ Keihanna Science City and nearby rural villages TECHNOLOGY Bio production system complement each other Subcommittee on Digital Biohealth Healthcare General health industry city National Cerebral and Cardiovascular Center Field of JST cocreation Subcommittee on Photonics Life Engineering Healthcare Photonics biotechnology Osaka University Field of JST co-۵ nd creation Ð Food Loss Subcommittee Continuous primary production Innovative Low Food Loss Co-creation Base Osaka University Field of JST co-2 creation system d lemia Sustainable society Dissemination of Future Intellectual Infrastructure Osaka University Field of JST co-Future urban subcommittee Models creation are **Biomass subcommittee** Carbon neutral Realization of carbon zero emissions through Tokyo University of Agriculture and Technology Field of JST cobiomass technology (TUAT) creation SC heduled Construction of an ecosystem for cell production Subcommittee on Cell Production Regenerative medicine Osaka University AMED Subcommittee on Modality Healthcare Manufacture of antibodies, gene therapy products, Manufacturing Technology Association of AMED · NEDO and vaccines **Biologics** (MAB) б White Bio-industry Subcommittee White bio-industry Biofoundry business Osaka University (representative sponsor) NEDO

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

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