

Map of Regional Innovation Cluster Program (Global Type)

1. Purpose

To establish globally competitive, world-class knowledge clusters to attract human resources, technologies and funds from all over the world. This will be achieved by collaborating with other regions inside and outside of Japan and strategically developing a wide range of activities, such as promoting integrated research and development activities by industry, academia and government, fostering technological "seeds" and expanding knowledge clusters.

2. Outline

- The following two types of projects are conducted depending on how far the regional cluster formation has progressed.
 - ◆ **Second stage project** Approx. 300 million to 1,500 million yen x 5 years 9 areas
 - Promotes wide-area/international activities with the potential to create innovation - instead of focusing on activities conducted by individual local governments - and also strengthens collaboration among projects undertaken by central government ministries.
 - ◆ **Innovative stage project** Approx. 200 million to 300 million yen x 5 years 8 areas (Including 4 areas where accelerative support is adopted.)
 - Promotes the formation of medium-sized regional clusters with technological cores aiming for the global development of the region.
- Projects will be implemented in 3 years in areas where accelerative support is adopted.

- 9 clusters (Second stage project)
 - 8 clusters (Innovative stage project)
 - ☆ Adopted based on accelerative support
- * Core research organization

Kyoto and Keihanna

Kyoto Environmental Nanotechnology Cluster
Establishment of a global center for developing nanotechnology-based, advanced functional materials that will help to resolve global environmental problems
*Kyoto University, Kyoto Institute of Technology, Osaka University, Kobe University, Doshisha University, Ritsumeikan University, Kyoto Women's University, Kochi University of Technology, Kyoto Municipal Industrial Research Institute, etc.

KANSAI (Saito & Kobe)

Biomedical Cluster Kansai
Internationally competitive biocluster focused on drug discovery and advanced medicine
*Kyoto University, Osaka University, Kobe University, Osaka Prefecture University, National Institute of Biomedical Innovation (NIBIO), RIKEN Center for Developmental Biology, etc.

Yamaguchi

Yamaguchi Green Materials Cluster
Establishment of a world-leading center (Green Valley) for industry and R&D relating to green materials, natural resources and energy saving materials
*Yamaguchi University, Tokyo University of Science Yamaguchi, National Fisheries University, etc.

Fukuoka Kitakyushu Iizuka

Fukuoka Cluster for Advanced System LSI Technology Development
Creation of a world-class center for the development of advanced system LSI technology
*Kyushu University, Kyushu Institute of Technology, The University of Kitakyushu, Fukuoka University, Waseda University, etc.

Kurume Region

Kurume Cutting-edge Medical Research Cluster
Formation of a world-leading medical research center focused on peptide vaccines for cancer therapy
*Kurume University, Kyushu University, Kyushu Sangyo University, Kyoto University, The Biotechnology and Food Research Institute (BFRI) and Chemical and Textile Industry Research Institute (CTRI) of Fukuoka Industrial Technology Center (FITC), Advanced Industrial Science and Technology (AIST), etc.

Southern of Lake Biwa ☆

Shiga manufacturing cluster by medical and industrial collaboration
Development of diagnosis and treatment technologies that realize an "ubiquitous advanced medical care"
*Shiga University of Medical Science, Ritsumeikan University, Nagahama Institute of Bio-Science and Technology, Industrial Research Center of Shiga Prefecture, Northeastern Industrial Research Center of Shiga Prefecture, etc.

Tokushima

Tokushima Health and Medicine Cluster
Establishment of world-class clinical and research center for diabetes
*University of Tokushima, Tokushima Bunri University, Tokushima Prefectural Industrial Technology Center, etc.

Toyama/Ishikawa

Hokuriku Innovation Cluster for Health Science
Establishment of a center for research and development in preventative and healthcare life sciences based on the development of cutting-edge bio-related devices
*University of Toyama, Toyama Prefectural University, Kanazawa University, Kanazawa Institute of Technology, Kanazawa Medical University, Toyama Prefectural Institute for Pharmaceutical Research, etc.

Hamamatsu (Shizuoka Prefecture)

Hamamatsu Optronics Cluster
Establishment of a sustainable and innovative society where advanced optronics provides safety, security and comfort
*Shizuoka University, Toyohashi University of Technology, Hamamatsu University School of Medicine, etc.

Tokai Region

Tokai Region Nanotechnology Manufacturing Cluster
Creating environmentally-friendly advanced functional materials and devices based on advanced plasma nanotechnology science and engineering
*Nagoya University, Nagoya Institute of Technology, etc.

Hokkaido Area (with Sapporo as the core)

Sapporo Biocluster "Bio-S"
Development of the health-science industry by developing and commercializing advanced functional food and other materials based on advanced analytical and activity evaluation research
*Hokkaido University, etc.

Hakodate Area

Hakodate Marine Bio Industrial Cluster - Green Innovation of UMI (University Marine Industry) -
Formation of a sustainable marine industrial cluster utilizing the ocean as a huge system to produce valuable resources
*Hokkaido University, FUTURE UNIVERSITY-HAKODATE, Hakodate National College of Technology, Hakodate Industrial Technology Center, etc.

Central Iwate-Kamaishi Area ☆

New cobalt alloy cluster in Central Iwate-Kamaishi
Formation of an innovation cluster based on "Made in Iwate" high-value added cobalt alloys
*Tohoku University, Iwate University, Iwate Medical University, Iwate Prefectural University, Tokyo Medical and Dental University, Hokkaido University, Kyushu University, Iwate Industrial Research Institute, etc.

Greater Sendai Area

Advanced Preventive Health Care Services Cluster
Formation of a health care service cluster aiming to provide customized preventive medicine and healthcare services based on advanced preventive healthcare technology
*TOHOKU University, etc.

Fukushima Area ☆

Fukushima next-generation medical industrial cluster
Development of safety and user-friendly advanced medical care equipment through application of haptic-optical technology - Towards the formation of a world-class hub for designing and manufacturing of medical care equipment -
*Fukushima Medical University, College of Engineering Nihon University, Fukushima University, The University of Aizu, Fukushima Technology Centre, etc.

Nagano Prefecture Region

Shinshu Smart Device Cluster
Formation of world-leading Shinshu-type clusters based on the advanced use of novel nanotechnology and materials
*Shinshu University, Tokyo University of Science, Nagano Prefecture General Industry Technology Center, etc.

Foot of Mt. Fuji ☆

Fuji Pharma Valley Cluster
Formation of the Pharma Valley Medical Cluster by developing advanced cancer treatment technology
*Shizuoka Cancer Center, Research Organization of Information and Systems - National Institute of Genetics, Tokyo University of Agriculture and Technology, etc.

Icons

These icons indicate the four high-priority fields specified in the Third Science and Technology Basic Plan (approved by the Cabinet in March 2006) as well as other fields.



Life Sciences



IT



Environment



Nanotechnology/Materials



Other