

Activating Industrial Clusters

What are industrial clusters?

Historical background

- With such technical innovations as IT and biotechnology, we have entered the age when regional SMEs work on the development of new technologies and products targeting the global market in cooperation with other companies, universities, large companies, etc.
- Regional SMEs must challenge new businesses to survive in this time of intensifying international competition and collapsing business affiliation.

Industrial clusters

In order to enhance such innovations and strengthen industrial competitiveness, it is very
effective for SMEs accumulating in the region and university researchers, etc. to have
active exchanges, establish a horizontal cooperative relationship as an alternative to
business affiliations in the past, and create new industrial accumulations (industrial
clusters*) that aim at cooperative technological development and new business
development.

Policy activities

- MET I has been promoting the Industrial Cluster Plan since FY 2001.
- Many foreign countries, including the United States, Germany and Finland, have been
 promoting the creation of industrial clusters.

Industrial cluster is a concept proposed by Professor Michael Porter of the Harvard Business School.

The Industrial Cluster Plan

- Promoting projects to create industrial clusters for 19 extensive areas/industrial fields nationwide in consideration of the research and development ability of the region and the characteristics of industrial accumulation in the region.
- The Officials of the Bureau of Economy, Trade and Industry (about 500) established close cooperative relationships with about 5,000 managers of SMEs that intend to challenge new businesses and the researchers, etc. of more than 200 universities.
- Providing comprehensive support for the development of new businesses by the following measures, and
 promoting the creation of industrial clusters

(i) Support for industry-university-government/inter-company exchanges and cooperation in the region

- Holding of workshops, exchange meetings, seminars, etc.
- Provision and exchange of information by e-mail/via Web site
- Promotion of industry-university-government/inter-company exchange and cooperation by using coordinators
- Support for the cultivation of market, such as introducing specialized trading companies.
- Support for the activities of promotion organizations that play a central role in the creation of industrial clusters by the private sector

(ii) Support for the development of practical application technologies by taking advantage of regional characteristics

- Subsidy for the development of practical application technologies: About ¥30 million per year (148 cases (FY 2002))
- Regional industry-university joint research commission expenses: Around ¥100 million per year (49 cases (FY 2002))

(iii) Establishment of business incubators

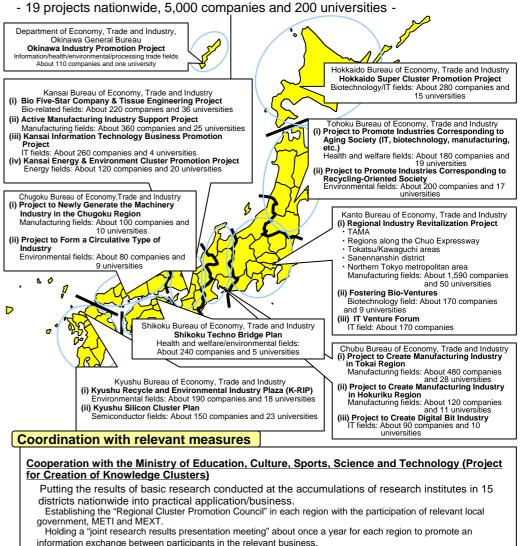
- Establishing business incubators that serve as a core of the industrial cluster (vicinity of the Honjo Campus of Waseda University, the Kashiwa Campus of the University of Tokyo, the Katsura Campus of Kyoto University, etc.)

[Relevant budgets]

- Initial budget for FY 2002: ¥35.3 billion
- Competitive rate for the offering of supporting measures for the development of practical application technologies: <u>5.1</u> • Supplementary budget for FY 2002: ¥9.1 billion

Expected competitive rate for the offering of supporting measures for the development of practical application technologies: 5.9

Initial budget for FY 2003: ¥41.3 billion
 Expected competitive rate for the offering of supporting measures for the development of practical application technologies: 8.3



Cooperation with Financial Services Agency(Local Financial Institution)

Holding of the Conference of Financial Institutions Supporting Industrial Cluster Plan

Cooperation with Local Government (Plan for Special Zones for Economic Structural Reform)

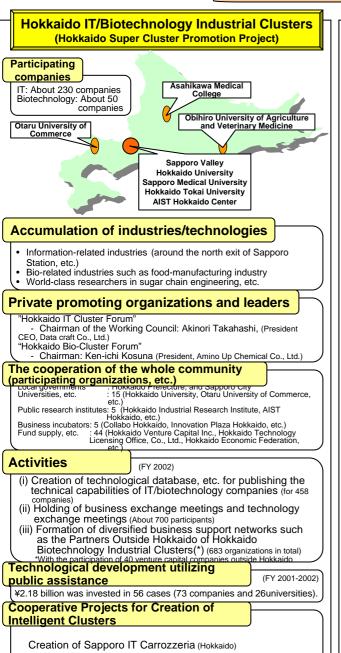
Industrial cluster in the relevant region supports companies that develop new businesses by utilizing the effects of regulatory reform in the special zones.

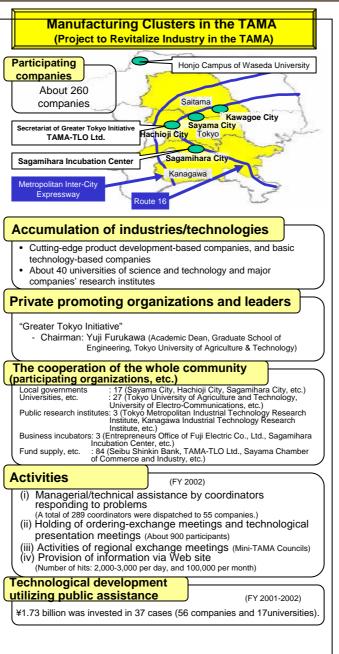
e.g. Plan for Special Zones for Industry-University-Government Cooperation Centering on Hokkaido University (Sapporo, Hokkaido) Hokkaido Super Cluster Promotion Project

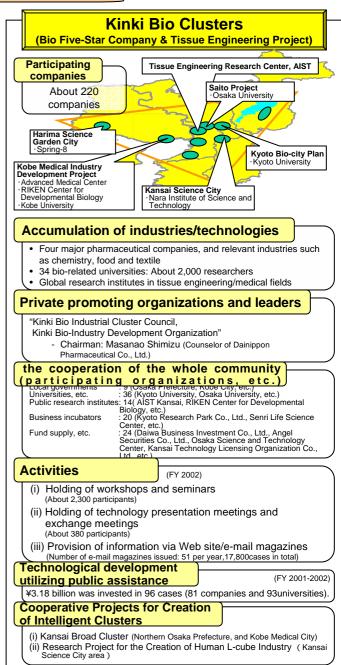
Plan for Special Zones for Advanced Medical Industry (Kobe City) Bio Five-Star Company & Tissue Engineering Project

Fukuoka Plan for Special Zones for Asian Business (Fukuoka City, Fukuoka) Kyushu Recycle and

Prior Examples of the Industrial Cluster Plan

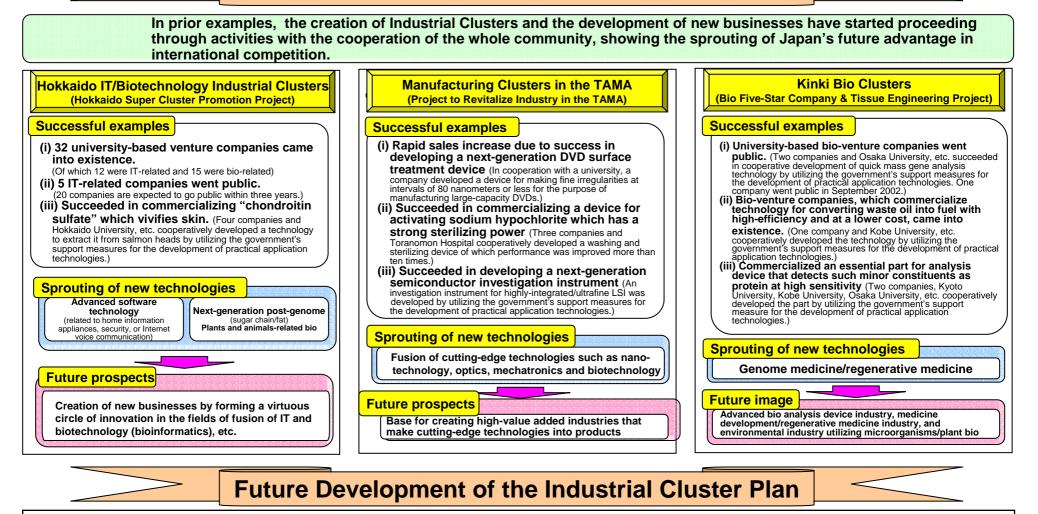








Industrial Cluster Plan: Results of Prior Examples and Future Image



Expansion/increase in the density of industry-university- government/inter-company human networks (i) Fosterage and utilization of related personnel such as coordinators (ii) Facilitation of inter-company cooperation due to the spread of confidentiality agreements	Expansion of the scope of networks (Diversifying and varying industrial clusters) (i) Creation of networks with basic technology-based SMEs that manufacture trial products, etc. (ii) Creation of networks with new business supporting service industries, such as regional financial institutions, venture capital companies, personnel services, management consulting and computerization assistance (iii) Support for the cultivation of the market in cooperation with specialized trading companies, growing industries/companies on the demand side
Promotion of international inter-cluster exchanges (Accelerating technology transfer, inter-company cooperation, and attraction of foreign-affiliated companies/inward investment)	