

Global development of smart cities through Y-PORT



Project Area	Yokohama, Kanagawa Prefecture
Administrating Organizations	City of Yokohama · YUSA (Yokohama Urban Solution Alliance)

Related SDGs

Project area goals, features, and issues (Smart City image)

I. Overview

Yokohama is a large city that is home to over 3.7 million people. Its population is the largest in Japan, and its total area is about 435 square kilometers. The Port of Yokohama gives the city a key role in the Tokyo metropolitan area as an international trading port representing Japan.

II. Issues and Approaches for Solutions

A large proportion of Yokohama's tax revenue is made up of individual municipal taxes. Therefore, attracting industry to the city and increasing corporate tax revenue are urgent issues. The City of Yokohama's Y-PORT (Yokohama Partnership of Resources and Technologies) program promotes international cooperation for the purpose of addressing urban issues in other countries. In addition, the City of Yokohama provides support to encourage companies in the city to participate in overseas infrastructure business, aiming to revitalize the Yokohama economy by increasing orders from companies in the city.

III. Y-PORT Project Features (Yokohama's Strengths)

The main target area of the Y-PORT program is the Asia-Pacific region. In this region, the use of digital technology is rapidly advancing at the same time as the progress of urbanization, and the need for smart city development is increasing. In addition, due to a growing awareness of the spread of infectious diseases and the threat of climate change, there is an ever-increasing demand for contribution to the achievement of the SDGs and decarbonization in international business. The Y-PORT program promotes offering the City of Yokohama's administrative know-how and the excellent technologies and services of companies in the city as a package deal to meet the local needs in the ASEAN region. We are promoting the realization of overseas development of smart cities by providing "Yokohama City solutions" utilizing public funds from the national government and development aid agencies.



Yokohama's Strengths

Yokohama has experience in urban development

Resources

Companies in Yokohama city have environment-related technology

Technologies



Y-PORT

Yokohama Partnership of Resources and Technologies

2011: Y-PORT project started (International technical cooperation through public-private partnership utilizing Yokohama's resources and technology)

Objective

- Revitalizing the economy of Yokohama (Companies in Yokohama will receive orders from overseas)
- Solving urban issues in emerging countries (Responding to rapid population increase)

◇ Initiatives to solve issues faced by cities and regions utilizing technology and data

(1) Overseas development of smart cities through city-to-city cooperation

The City of Yokohama signs memorandums of understanding on technical cooperation with overseas cities.

The City be involved in formulating "master plans" and "action plans to develop each infrastructure sector" in order to participate in urban development overseas. In addition, we match overseas cities with companies in Yokohama according to their needs.

The City of Yokohama provides consistent support for each step of the process, from co-creation of urban solutions to implementation and commercialization.

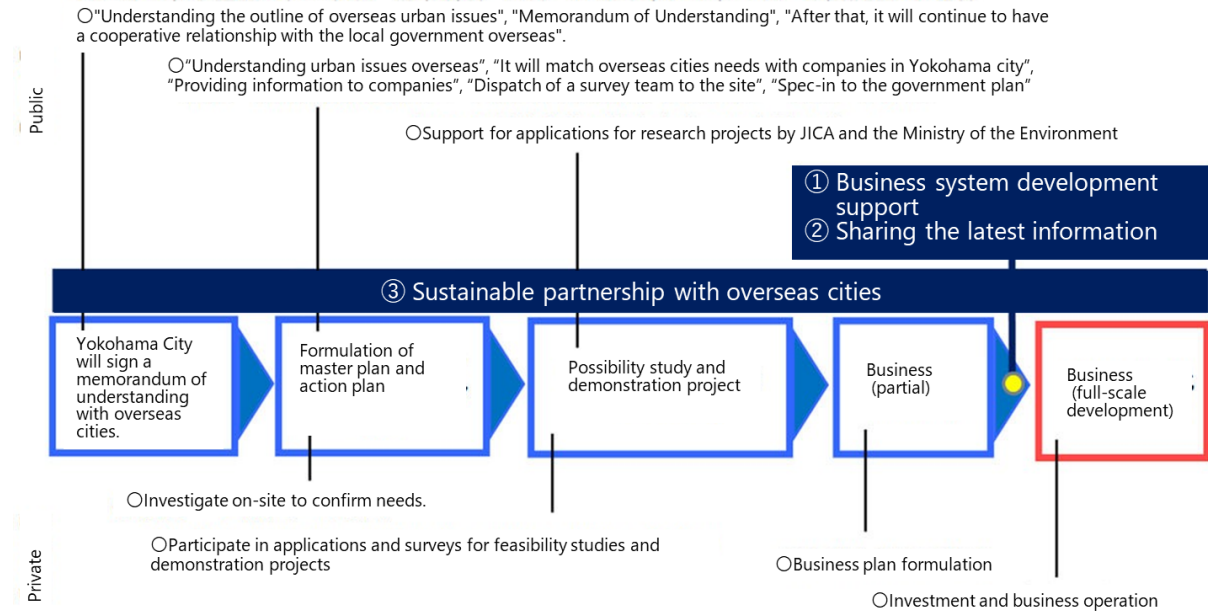


Fig: Flow of overseas expansion of smart cities through city-to-city cooperation

(2) Overseas development of smart cities in collaboration with overseas private developers

In recent years, there has been an increasing need for smart city development by local private developers. In order to meet such needs, YUSA is constructing a business model using "CMaaS (City Management as a Service)," which is a comprehensive service for each step of the process, from urban development to operation as a private business. The model proposes a plan in which overseas private developers aim to realize smart cities while utilizing the development results of Yokohama's Minato Mirai 21 districts (illustrated on the right).

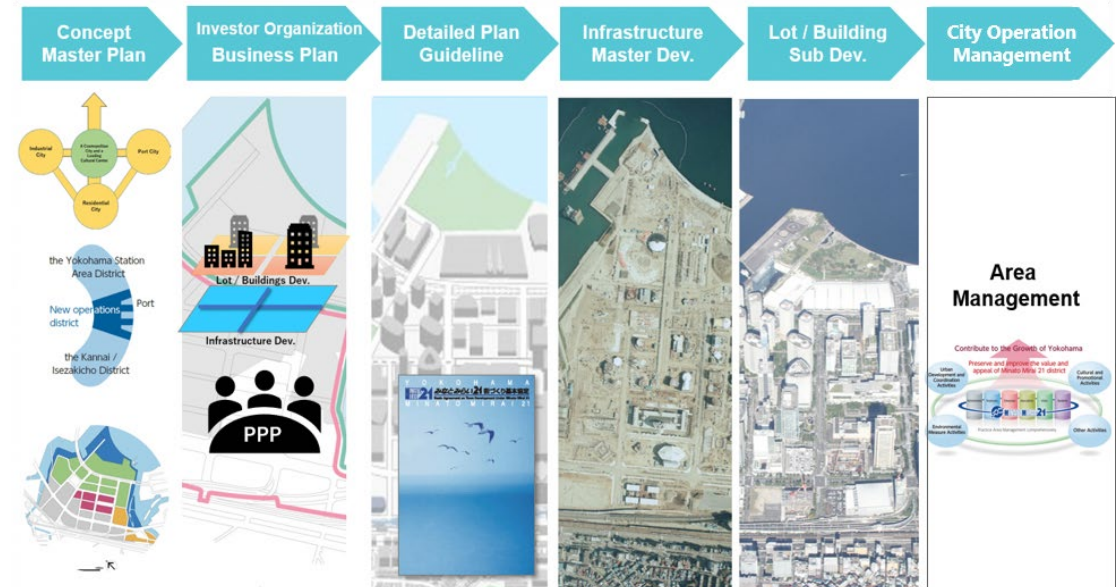
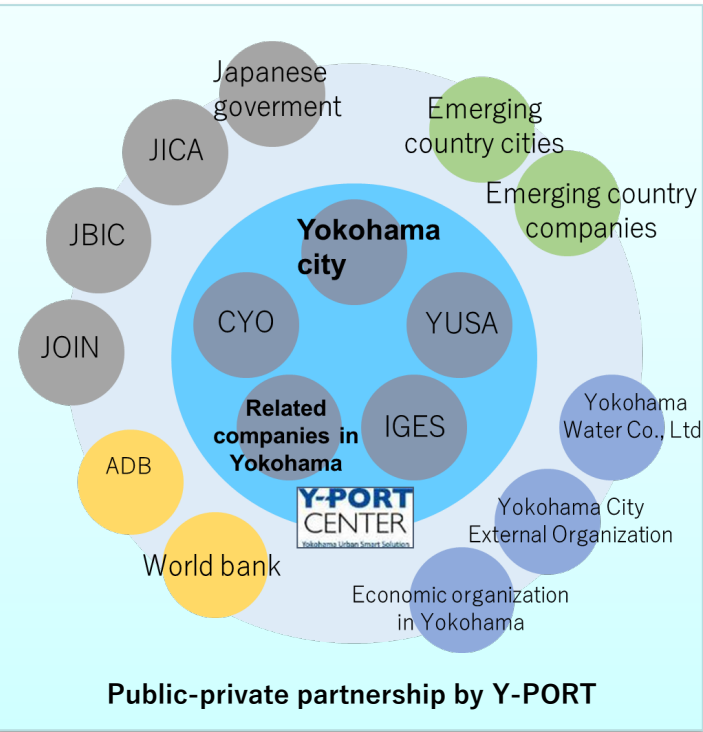


Fig: Image of one-stop service from urban development to operation

◇ Administrating Organization

The Y-PORT Center was launched in 2015 as a platform for public-private partnerships. It is promoting cooperation with various parties such as the government and related organizations and the overseas development of smart cities.

In addition to initiatives based on cooperation agreements with individual companies, the Y-PORT Center and its partners are working on business development in collaboration with YUSA (YOKOHAMA URBAN SOLUTION ALLIANCE), which was established mainly by small and medium-sized enterprises in Yokohama.



- JGC CORPORATION 
 - JFE Engineering Corporation 
 - Chiyoda Corporation 
 - Hitachi, Ltd. 
 - Institute for Global Environmental Strategies (IGES) 
 - Sumitomo Mitsui Banking Corporation 
 - YOKOHAMA URBAN SOLUTION ALLIANCE (YUSA) 
- Y-PORT partners**

◇ Project Timeline

- (1) Overseas expansion of smart cities through city-to-city cooperation
 - 2012 : Signed an intercity memorandum of understanding with the City of Cebu, Philippines
 - 2013 : Signed an intercity memorandum of understanding with the City of Da Nang, Vietnam
 - 2013 : Signed an intercity memorandum of understanding with Bangkok, Thailand
 - 2015 : Signed an intercity memorandum of understanding with Batam City, Indonesia

- (2) Overseas development of smart cities in collaboration with overseas private developers

In 2018, YUSA received an order from a major industrial complex developer in Thailand for consulting services to convert an existing industrial zone in Thailand with reference to the smart city model in Yokohama. Currently, the project area has expanded to 256ha. At the same time, YUSA is providing advice for the smart city development projects that the operator in Thailand is promoting in Vietnam, Laos, and Myanmar.



AMATA CITY CHONBURI industrial complex smart city concept image in Thailand.

◇ Other (Awards, selection for smart city projects promoted by the government, etc.)

(1) Overseas development of smart cities through city-to-city cooperation
Companies related to Yokohama have participated in multiple projects in the Smart JAMP project of the MLIT and have been selected. The City of Yokohama supports this.

(2) Overseas development of smart cities in collaboration with overseas private developers
Companies related to Yokohama have participated in multiple high-quality infrastructure F/S projects by METI and have been adopted. The City of Yokohama supports this. (A total of 6 projects have been adopted since 2018)

(3) Award history
 • Place Marketing Award Economic Development Category Award (2019 Place Marketing Forum)
 • Lee Kuan Yew World Cities Award Special Award (2014 World Cities Summit)