

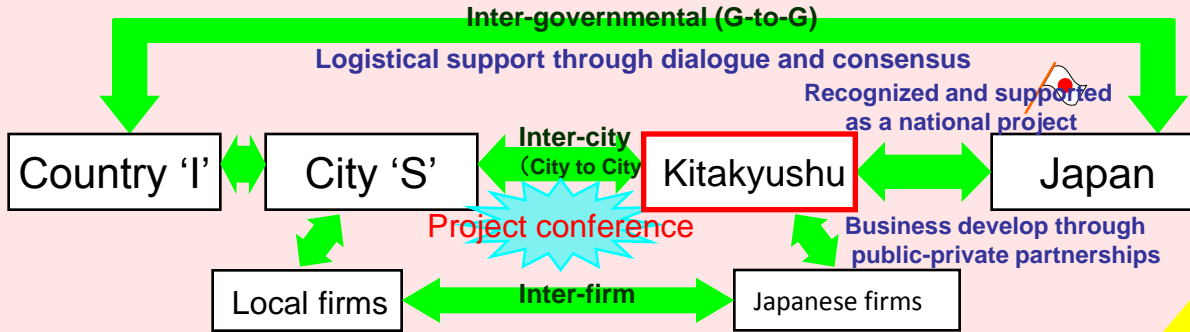
# Low Carbon City Design by AIM

## Intercity Cooperation between Pasir Gudang City and Kitakyushu City for the Development of Low Carbon Society

**Kitakyushu Asian Center for Low Carbon Society**

# Development Scheme for Exporting Urban Environmental Infrastructure

## Creating a platform for inter-governmental and inter-city cooperation



## Creation and centralization of a comprehensive support coordination service

- Ministry of Foreign Affairs
- Ministry of Economy, Trade and Industry
- Ministry of the Environment
- Ministry of Land, Infrastructure, Transport and Tourism
- JICA
- NEDO
- JBIC ...and more

**Comprehensive financial assistance (cross-industry, continuous-process)**

## Development of a comprehensive environmentally-friendly urban master plan

### Kitakyushu model activities



Consensus-building between the public, industry, government, and other stakeholders

Private financial institutions



Financial assistance

Social system development

Project discovery

Project development

(feasibility studies & demonstrations)

Commercialization

(including fundraising)



Public financial assistance

Support from public and private funds

Overseas infrastructure development

Support for establishing footholds (subsidies, etc.)

Greater worker interaction

## Establishing footholds for constructing local government models



Kitakyushu Asian Center for Low Carbon Society  
Establish green community development that accommodates the diverse needs of Asian cities and firms.

# Overview of the Kitakyushu Model

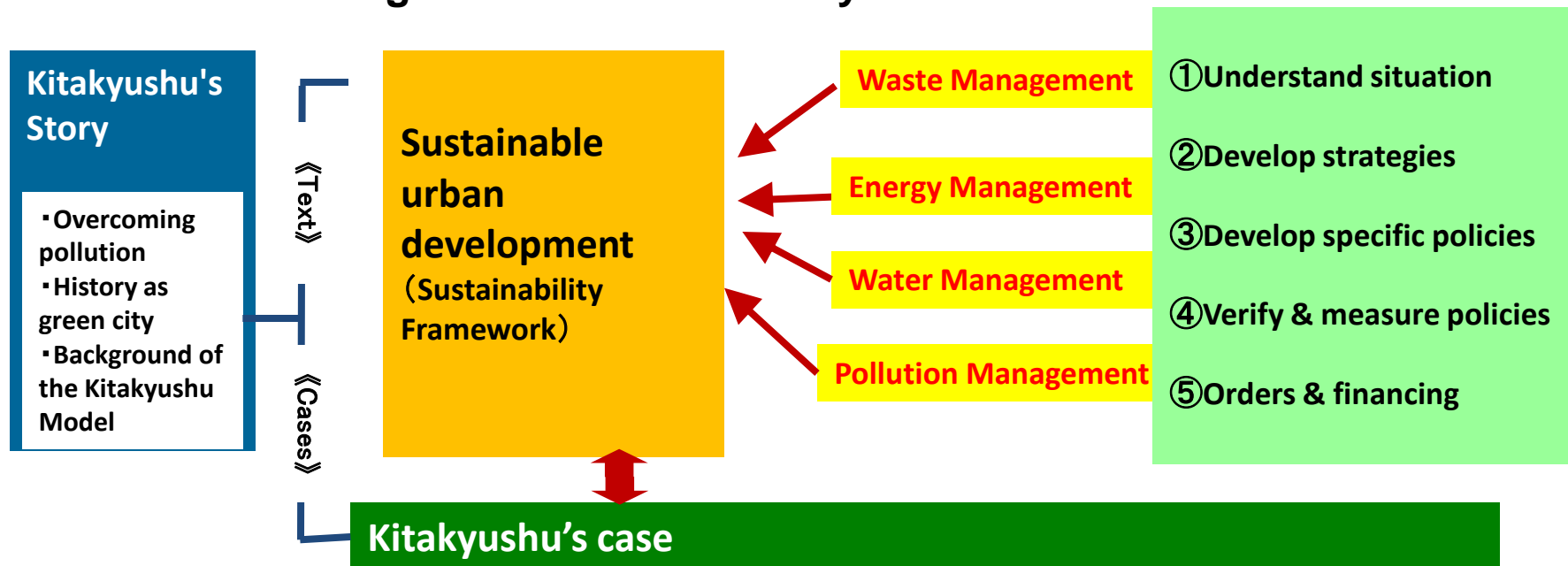
## 1. Objective of the Kitakyushu Model

- Kitakyushu, which faced and overcame pollution for the first time in Asia, became a leading environmental city in Japan.
- Kitakyushu is developing the Kitakyushu Model (support tool) that systematically arranges information on the technologies and know-how of Kitakyushu from its experience in overcoming pollution to its quest as an environmental city.
- Kitakyushu is utilizing the Kitakyushu Model to promote the export of customized infrastructure packages to cities overseas, and grow together with Asia.

## 2. Applications of the Kitakyushu Model

- Support tool to examine future ideal city image and for cities to take appropriate measures and procedures to achieve this.
- Support tool to examine management systems for waste, energy, water and sewage services, and environmental protection.
- Support tool to develop sustainable master plans that integrates waste, energy, water and sewage services, and environmental protection.

### — Organization of the Kitakyushu Model —



# Development of Low Carbon Society for Iskandar, Malaysia

This project aims to develop the Large-Scale GHG Emissions-Reduction Project through the application of “Fujisawa-model by Panasonic”, “Kitakyushu-model” and “ESCO business-model”, in the field of residential area, industrial area and individual buildings, based on LCSBP in Iskandar development region, Malaysia.



Goals,  
Methods,  
Plans of the  
project

Co-proposer	Panasonic Corporation	Kitakyushu City	Japan Facility Solutions Inc.
Goals	<ul style="list-style-type: none"> <li>● GHG emissions reduction in the residential area</li> </ul>	<ul style="list-style-type: none"> <li>● GHG emissions reduction in the industrial area</li> </ul>	<ul style="list-style-type: none"> <li>● GHG emissions reduction on the individual buildings</li> </ul>
Methods	<ul style="list-style-type: none"> <li>● Developing the projects and systems based on the “Fujisawa model” in order to realize GHG emissions reduction in the residential area</li> </ul>	<ul style="list-style-type: none"> <li>● Developing the relationship and cooperation based on the “Kitakyushu model” in order to realize GHG emissions reduction in the industrial area</li> </ul>	<ul style="list-style-type: none"> <li>● Developing the ESCO-business in order to construct the system of GHG emissions reduction on the individual buildings</li> </ul>
Research plan	<ul style="list-style-type: none"> <li>● Communicating two developers</li> <li>● Participating the basic design and details design in order to develop the Low carbon residential area, based on the research results of FY2014</li> </ul>	<ul style="list-style-type: none"> <li>● Developing the round table for discussion in order to cooperate between Kitakyushu city and Pasir Gudang city</li> <li>● Identifying the field for realizing the Low carbon industrial area</li> </ul>	<ul style="list-style-type: none"> <li>● Implementing details energy conservation diagnosis, developing the methods of verification of benefits and the standard of form of Agreement</li> </ul>
Partners	<ul style="list-style-type: none"> <li>● Developer A</li> <li>● Developer B</li> </ul>	<ul style="list-style-type: none"> <li>● Pasir Gudang city</li> </ul>	<ul style="list-style-type: none"> <li>● TNB Energy Services</li> </ul>

The Japan Research Institute, Ltd.

- Heading each project for developing the Low carbon Society
- Cooperating and discussing with Iskandar Regional Development Authority
- Supporting the research and discussion for realizing each project
- Organizing the meeting and seminar in order to involve the stakeholders at Iskandar

# The Low Carbon Society Blueprint for Iskandar, Malaysia 2050 (LCSBP)

## LCSBP <Drawn up in November 2012>

Roadmap for the development of a low-carbon city



## Action For a Low Carbon Future 10 <Drawn up in November 2013>

### List of 10 preferential measures to implement the LCSBP

1. Integrated Green Transportation
2. Green Economy Guidelines
3. Eco-life Challenge School project
4. Portal on Green Technology
5. Trees for Urban Parks
6. Responsible Tourism and Biodiversity Conservation
7. Bukit Batu Eco-Community
8. GAIA-Green Accord Initiative Award
9. Low Carbon Village Felda Taib Andak



### Special Feature : Smart City-Nafas Baru Pasir Gudang-Green and Healthy City

The following four programs will be promoted.

**1. Green Industry**

**2. Solid Waste Management**

**3. Carbon Sequestration**

**4. Green Community**

# Green & Healthy City of Pasir Gudang

## Smart Cities

### 1. Green Industry

- Cleaner Production
- Efficient energy management
- Pollution prevention (wastewater/waste gas measures)
- Recycle industrial waste
- Manufacture eco-products

### 2. Solid Waste Management

- Reduce urban waste (emission stages)
- Promote recycling
- Proper treatment of waste (waste-to-energy)
- Secure final disposal sites
- Illegal dumping prevention measures

## Kitakyushu Model

Offering solutions

### 3. Carbon Sequestration

- Promote spread of public transport systems
- Introduce low-emission vehicles
- Energy-saving homes and offices
- Introduce renewable energies
- Climate change measures

### 4. Green Community

- Urban greening
- Protect the natural environment
- Environmental education & learning
- Practice eco-lifestyles
- Develop monitoring systems