

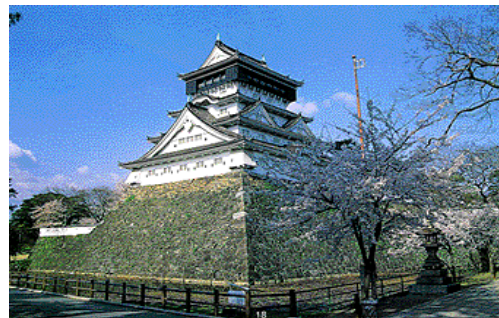
Side Event on East Asia Low Carbon Growth Partnership Dialogue
East Asia Knowledge Platform for Low Carbon Growth

Low Carbon Growth in Asia

May 17, 2013

International Environmental Strategies Division

Environment Bureau, City of Kitakyushu



City of Kitakyushu's Overview

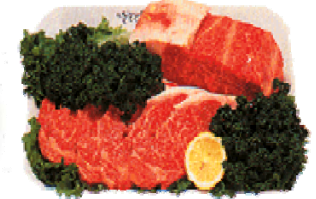
Rich nature and branded food materials



Karst Plateau Hiraodai



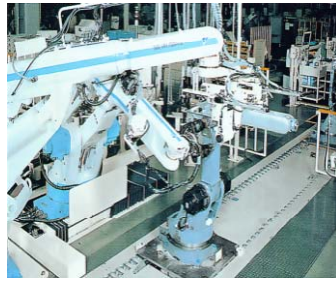
Wakamatsuhoku Beach



Major Companies in the Kitakyushu Areas



Nippon Steel Corporation



Yasukawa Electric Corporation



TOTO Ltd.



Mitsubishi Chemical Corporation

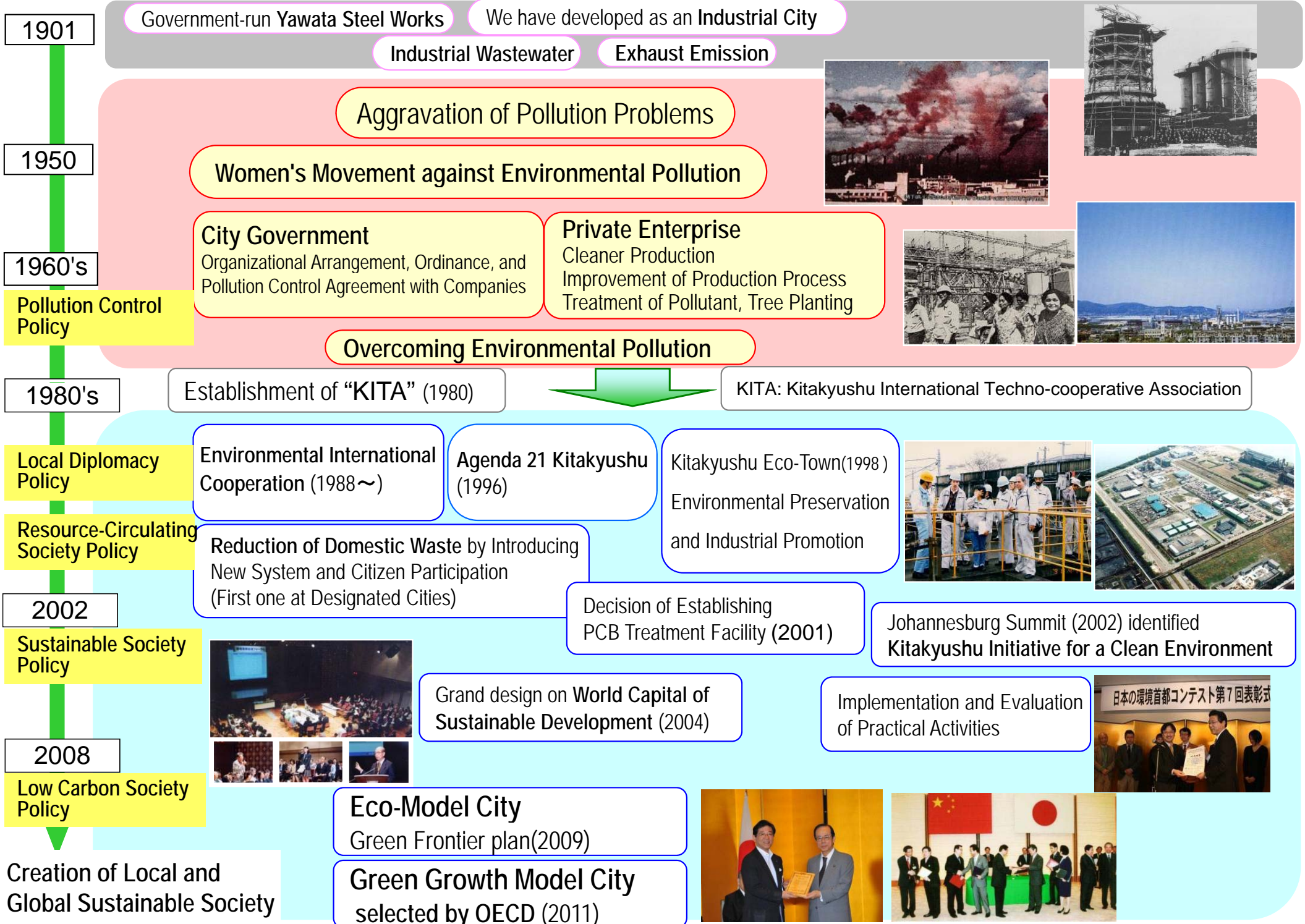


Toyota Motor Corporation · Nissan Motor Co., Ltd.



Mitsubishi Materials Corporation

~ Green Frontier ~ City of Kitakyushu's Environmental Policy



Regional Resources (Experience with Overcoming Pollution Problems)

Kitakyushu City with recovered environments

1960s

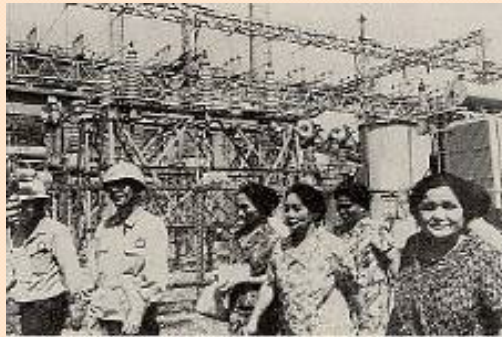


Present



Solution of pollution problems is a starting point for international cooperation on environmental issues.

Transferring the experience of overcoming pollution problems so that developing nations need not repeat the same mistake



Company visit by citizens

Citizens

Partnership

Government

Companies



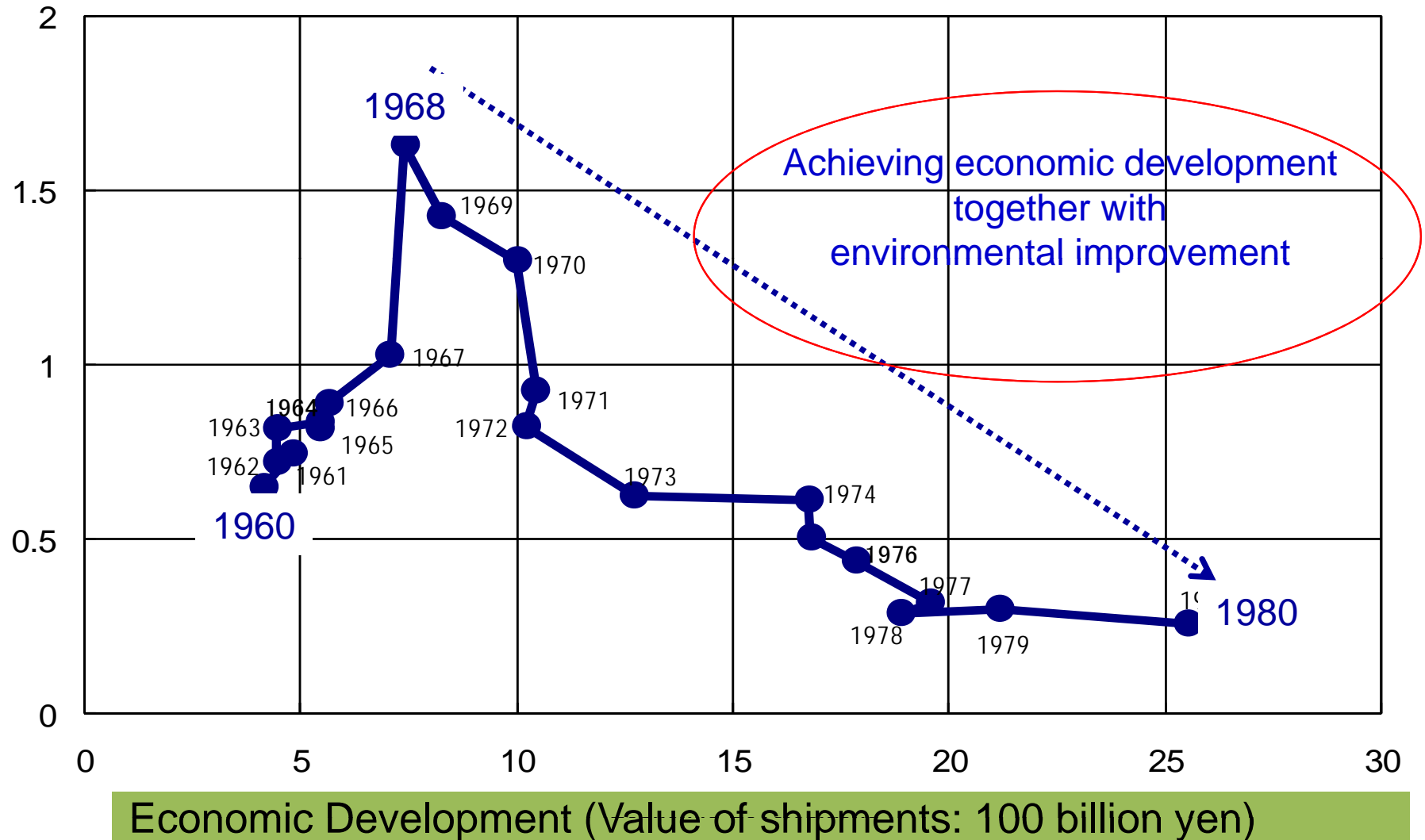
Reinforcement of restrictions and supervision



Agreement to prevent pollution

Compatibility between Environmental Improvement and Economic Growth

Environmental pollution (Sulfur oxide)
(mg-SO₃/100cm²/day)



Regional Resources

(Development of International Cooperation on Environmental Issues)

Partnership with other Asian nations for mutual prosperity

Accepted trainees: 7,059 persons from 146 nations; Dispatched specialists: 165 persons to 25 nations
Promotion of cooperation networking between Asian cities and environmental improvement projects



UN ESCAP Ministerial Conference on Environment and Development (2000)

Kitakyushu Initiative Network
(62 cities in 18 nations)



Contribution to environmental improvements in Dalian, China
(Dalian City received the Global 500 Award in 2001.)



Exchanged memorandum for cooperation on eco-town with Tianjin City
(At the Prime Minister's official residence)



Water supply project at Phnom Penh



Air pollution survey in Mongolia

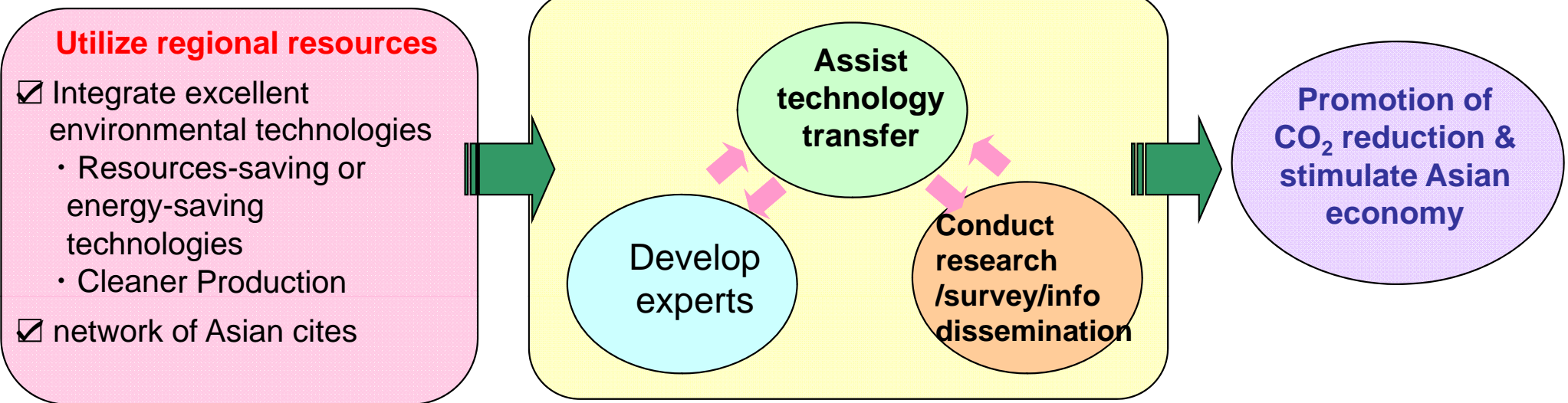
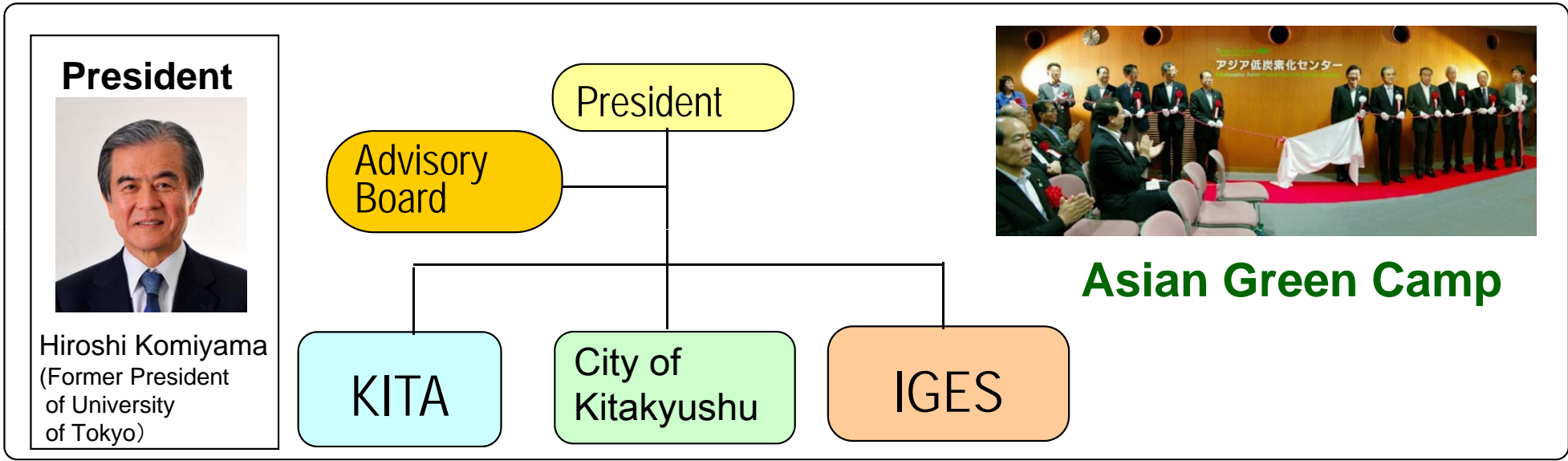


Driving forward the waste composting project with Surabaya City, Indonesia
(Adopted by over 60,000 families)

International Environmental Strategies for Green Growth in Asia

Kitakyushu Asian Center for Low Carbon Society

Transferring of Packaged Environmental Management & Technologies through City-to City International Cooperation Network Towards Realizing Low Carbon Society and Green Business in Asia



Building Cooperative Relationships with Relevant Organizations



The signing of a memorandum between the **United Nations Industrial Development Organization (UNIDO)** and the City of Kitakyushu concerning mutual cooperation for the purpose of achieving a low-carbon society. (June 2010)



The signing of a memorandum between the **Japan Bank for International Cooperation (JBIC)** and the City of Kitakyushu concerning mutual cooperation related to climate change policy and water infrastructure (December 2009)



The signing of a memorandum between the **Kyushu Recycling and Environmental Industry Plaza (K-RIP)** and the Kitakyushu Asian Center for Low Carbon Society concerning mutual partnerships and cooperation for the purpose of promoting environmental businesses in Asia (June 2010)

International Environmental Cooperation (Cambodia)

Since cooperation began in 1999, there has been rapid improvement in Phnom Penh's water supply



Kitakyushu staff providing on-site technological guidance

(1996⇒2006)

Water supply diffusion rate: 25%=>90%

Water supply time: 10h => 24h

%of non-revenue water: 72% => 8%



October 2011

A friendship award was granted to staff involved in cooperation activities by the Government of Cambodia to commemorate the many years of cooperation.

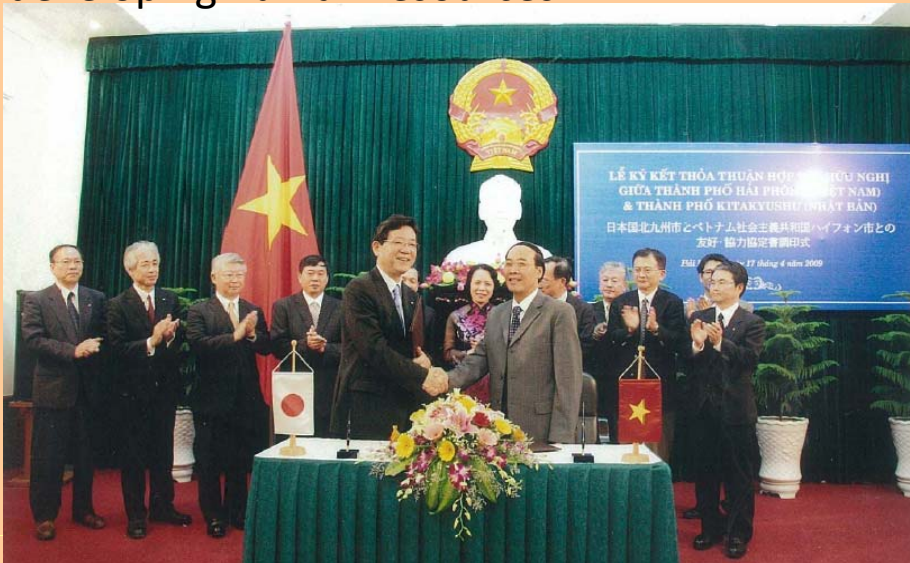
Water Business with Hai Phong, Viet Nam

Development of new water-based business in Hai Phong

April 2009

MoU with Hai Phong for exchange and cooperation

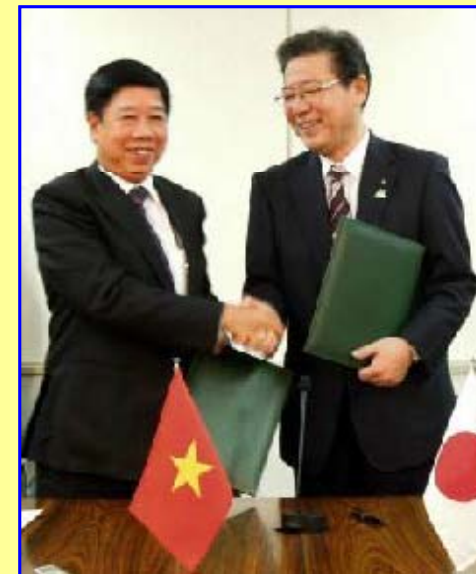
Carrying out cooperation, such as enhancing support for businesses, implementing governmental exchange activities, and developing human resources



(L: Mr. Trinh Quang Huy, Chairman of the People's Committee Hai Phong)

October 2011

A comprehensive MoU on water projects was concluded between the two cities based on past exchange and cooperative agreements



(L: Deputy Chair, Hai Phong Diet Affairs Committee)

Hai Phong authorized the introduction of the water block system adopted by Kitakyushu and is targeting improvement within five years

Achievements of agreement

Exporting Green Cities (A Case Study from Surabaya)

Waste disposal

Surabaya has requested assistance for waste disposal project development. Additionally, Nishihara Corporation is looking into operations related to improving the livelihoods of waste recyclers and waste pickers. (Overseas development support for smaller businesses, utilizing the Ministry of Foreign Affairs and the ODA)



Wastewater treatment (river cleanup)

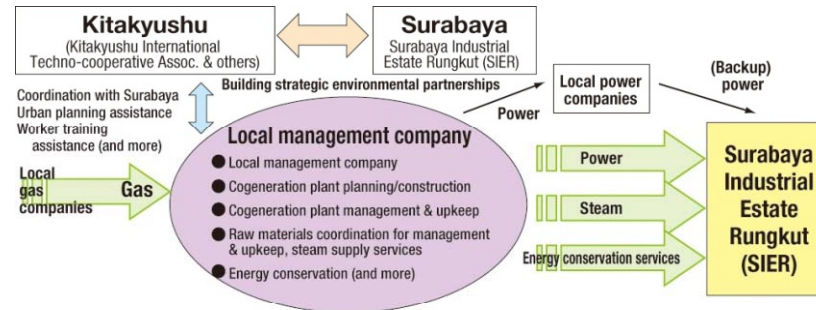
A master plan related to wastewater management for the Kali Mas river, with a focus on the Gundy area, is being developed, basic dispersal wastewater treatment is being expanded under the management of model community residents, and an operation for constructing and managing medium-sized treatment facilities is underway. (JICA Grassroots Cooperation Project)



Project for cogeneration (steam + electricity) & energy conservation

Surabaya Industrial Estate Rungkut (SIER)

Export of technology and knowledge from Yahata Higashida Smart Community project



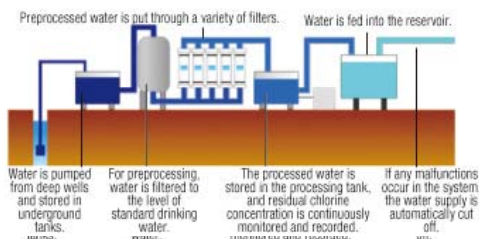
Ministry of Economy, Trade and Industry: "Infrastructure and Systems Export Promotion Research Project"

Investigating methods for quantifying CO₂ reduction

As for operations being conducted in Surabaya, methods for quantifying reducible volumes of CO₂ are being investigated. (IGES)

Tap-water purification

Ishikawa Engineering Corporation, which successfully implemented well-water purification systems, is currently looking into operations involving the installation of water supply equipment in the community that could purify tap-water (though not drinkable) And provide safe, reliable water.



Drinking water supply operations through solar power and small desalinization/water purification equipment

In areas that do not yet have electrical and waterworks infrastructure, Toray Industries, Inc. and Suido Kiko Kaisha, Ltd. will be using solar panels and water purification equipment (reverse osmosis filters) with desalinization capabilities to provide inexpensive clean drinking water. Installation and maintenance centers for drinking water supply equipment will be built in Surabaya. (JICA BoP project)



Priority Fields in Technological Transfer

Energy management

Regional management of energy by placing city and regional electricity plants at the core

Kitakyushu Smart Community Project (Higashida Area)



Yahata Higashida District, where an environmentally conscious town is under construction



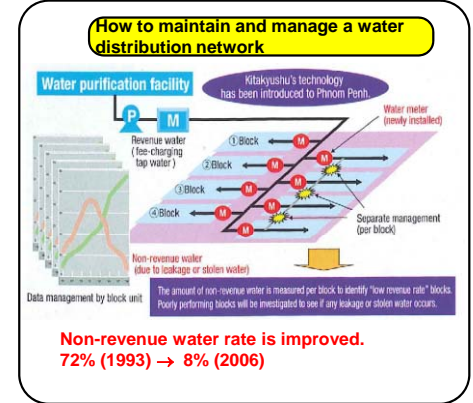
Kitakyushu Smart Community

Water recycling demonstration plant combining sewage water membrane treatment and seawater desalination



Water Plaza

Water created from sewage: 1,000 m³/day
Water created from seawater: 400 m³/day



Cooperation between government and the private sector
Transferring a package on environmental technologies and social systems

Recycling and waste treatment



Kitakyushu Eco-Town



Home appliance recycling



Bicycle recycling

Most advanced facilities for waste treatment
Shaft-gasification furnace



Shin-Moji Plant
Safe facilities that achieved recycling of waste and effective utilization of heat energy

Cleaner production and prevention of pollution

Introduction of cleaner production (CP)

- * Evaluation and improvement of raw material and fuel use
- * Improvement of manufacturing processes
- * Thorough implementation of maintenance and management
- * Human resources development, etc.

Achievement of energy saving and resource saving
Reduction of environmental loads + Higher productivity

End-of-Pipe (EOP) measures



Electric dust collector

Flue-gas desulfurization facilities

Waste water treatment facilities

New development strategies in Japan

One of the 21 national strategic projects

Developments in Asia

(Overseas development of packaged infrastructures)

Market scale: 19,700 billion yen (Target to achieve by 2020)

The Organisation for Economic Co-operation and Development (OECD) selected Kitakyushu as a green growth model city in June 2011, having been evaluated for its activities and achievements in international environmental cooperation and the city's Eco-Town project.



L: Ms. Yoshie Nakatani (Director, OECD Tokyo)

Other cities selected include Paris, Chicago, Stockholm

Thank you for your kind attention!

City of Kitakyushu

My name is teitan

