Kitakyushu, as Green Growth City - International Environmental Strategies -

Agenda

- **1** Industrial Development & Overcoming Pollution
- **2** International Environmental Cooperation & Business
- **3 Role of Kitakyushu to promote SDGs**



Where is KITAKYUSHU ? - It is "Key to Kyushu" !! -







Kitakyushu Airport



Fukuoka Int'l Airport



Kokura Station, Shinkansen Bullet Train

Industrial Development as a gateway to Asia International Trading Ports (1889-)





Severe pollution = Symbol of prosperity ? 1960s



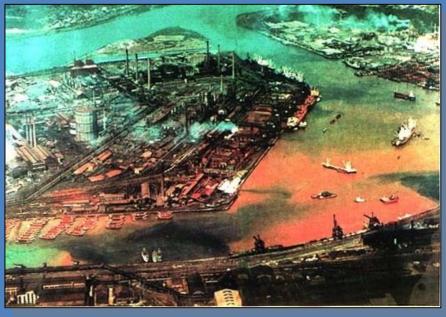
Most deplorable air pollution in Japan





Tourist postcards of Kitakyushu characterized by rainbow color smoke





"Dokai Bay, the Sea of Death" Water pollution in the bay even E. coli could not be detected.

Overcoming Pollution Regain blue sky, and blue sea Present











How did we solve pollution problem ?



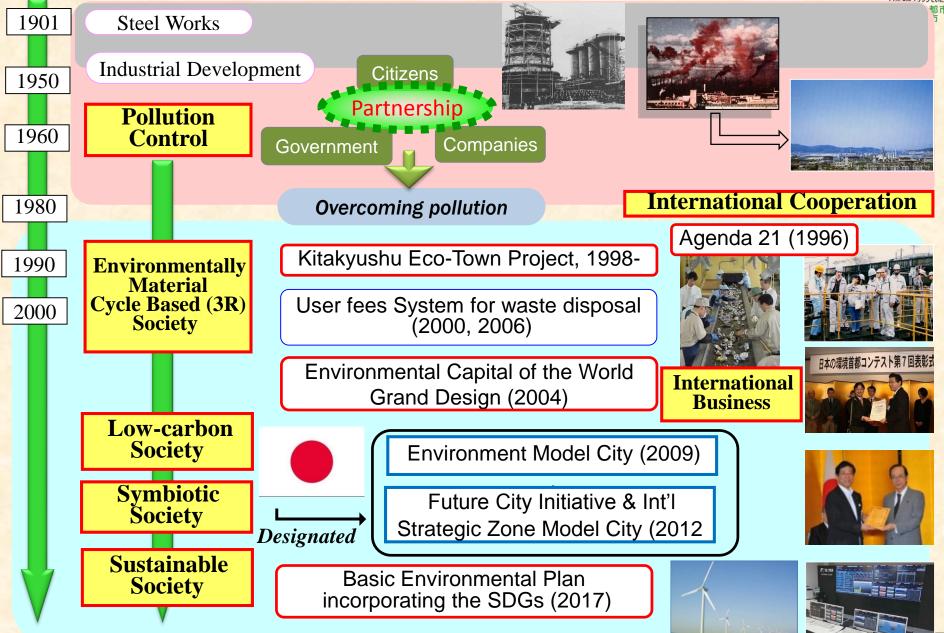


Reinforcement of restrictions and supervision

Cleaner Production & Anti-Pollution Facilities

Kitakyushu leads as environmental advanced city





Accumulated Environmental Technologies



Recycling, Waste Treatment Cleaner Production (CP), **Pollution Management** (End of Pipe) Kitakyushu Eco-Town * Change Product Design Pollutant Reduction Project * Modify Making process CP **Energy-Saving** Home Appliance **Plastic PET Bottle** * Utilize Byproducts and **Resource Recovery** Unused Energy End of Office Equipment Automobile Japanese first and largest project of facilitating Pipe Electric Precipitation Machine de Flue gas Wastewater desulfurization system Treatment resource circulation and eco-industries **Public-private** partnerships **Energy Management** Water Business Regional Energy-saving Station functions managing regional energy. Water Plaza: Demonstration research facility * Advanced desalination system * Integrating both membrane treatment of sewage and seawater desalination Kitakyushu Smart Community Environmentally urban development Hiagari Sewage Treatment Plant **Creation Project Higashida District**

8

International evaluation about Kitakyushu

- White paper by OECD as a city that has transformed itself 1985 "From Gray City to Green City"
- 1990 Global 500 Award from UNEP (1st local government achievement in Japan)
- 1992 Local Government Honours at the Rio Summit (one of 12 cities in the world)
- The 4th UNESCAP Ministerial Conference in Kitakyushu 2000 The Kitakyushu Initiative for a Clean Environment is adopted.
- t and the susta 2002 **Sustainable Development Award** at the Johannesburg Summit (one of 2 recipients).
- Kitakyushu is selected as the first Asian Green Growth City 2011 by OECD
- 2013 **OECD issues the Report** on Kitakyushu's Green Growth.
- 2016 G7 Kitakyushu Energy Ministerial Meeting in Kitakyushu "Kitakyushu Initiative on Energy Security for Global Growth Joint Statement" is adopted, and forward to G7 JAPAN 2016 Ise-Shima





environment n Sum



Kitakyushu Asian Center for Low Carbon Society



The engine of Kitakyushu for building low carbon societies in Asia through environmental business skills, since 2010

Team Kitakyushu

Center Structure

City of Kitakyushu
Administration & Coordination

Kitakyushu International Technocooperative Association

> Training of personnel or dispatch of experts

S IGES Kitakyushu Urban Centre

➢ Research projects

Collaboration

- National Government, and relevant organizations
- > JICA Kyushu Center
- Local private companies in Kitakyushu
- Industrial and economic associations
- Academic institutions



Overseas Cities



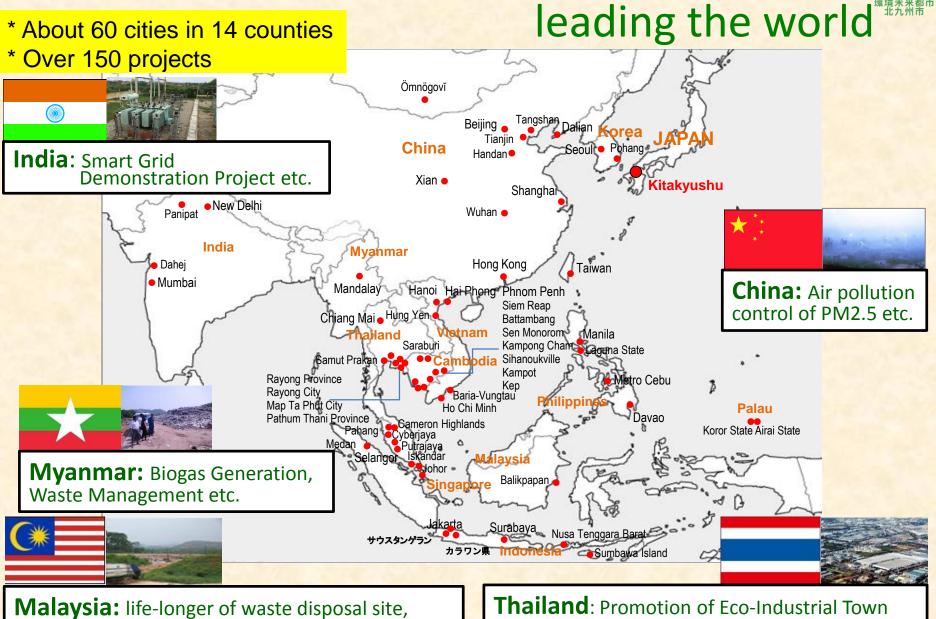
City-to-City Cooperation with South East Asian Countries





Environmental technologies of Kitakyushu,



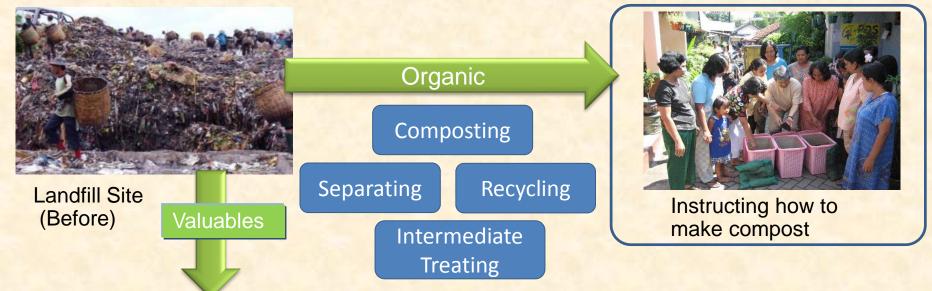


Producing alternatives for cement from waste etc.

Thailand: Promotion of Eco-Industrial Tow Concept based on communities

Waste Management Projects in Surabaya, Indonesia (since 2002)

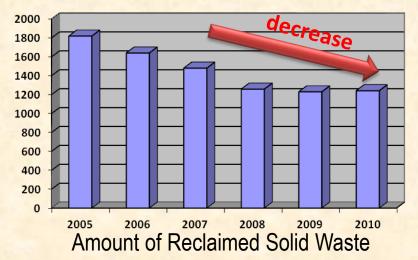






Safe and hygienic recycling of plastic and metals in cooperation with waste pickers

30% reduction of solid waste landfill





Promoting waste management project in Phnom Penh Capital City, Cambodia



Measuring to cope with rapid increase in waste generation volume due to population increase and high economic growth

- * Duration 2018-2020, 3 years
- * Fund : US\$ 550,000 by JICA
- * Entities: City of Kitakyushu, KITA, private companies in Kitakyushu, Phnom Penh Capital City, CINTRI, Local NGO in Phnom Penh, etc.

Formulation of waste treatment model in pilot area

- Designate 2 model areas
- Promote to solve the problems concerning garbage collection and transportation, reduction of household

waste, and recycling within the areas

Aim for spread to the entire city



Technical guidance on proper management of final disposal site

- On-site guidance for local staffs
- Construction of compositing mechanism for further reduction of waste
- Enlightenment on functions and necessities of

Intermediate treatment facilities

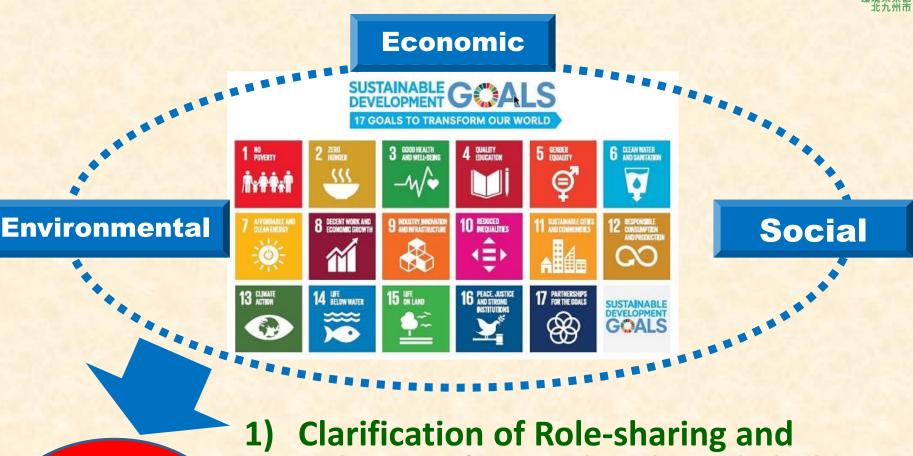


Phnom Penh Capital City

Strategic Action Plan for Climate Exchange (2017)

Challenges toward Localizing SDGs





Nation to Local Clarification of Role-sharing and milestone for Local multi stakeholders
 Public awareness activities
 Clear world standard guidelines and indicators

Hottest SDGs achievements of Kitakyushu



Basic Environmental Plan incorporating the SDGs (Nov. 2017)





SDGs Awards by Gov. of Japan (Dec. 2017)

Kitakyushu presented at the UN Forum by Foreign Minister (Jul. 2017)



PIKOTARO's "PPAP" for SDGs !!



Start up to localize SDGs collaborating with international institutions



Pen-Pineapple-Apple-Pen

Public Private ACTION for Partnership!! 16

Kitakyushu's Directionality of Environmental Strategies - We will share the benefits, together. -



Kitakyushu: Economic benefits

- Activate the local economy
- Create new industries

Asian Cities: Social benefits

- Solutions for environmental problems
- Improved energy efficiency (CO2 reduction)



Mayor of Kitakyushu Kenji Kitahashi