



Introduction of the Project for Low Carbon City Development in Ho Chi Minh City (HCMC)

**Global Environment Centre Foundation (GEC)
Kenji Shiraishi**

Monday, 18 November 2013
COP19 WARSAW

This project is, in short,

- **Example of City to City Cooperation for HCMC, in close cooperation with the Nat'l Governments of both countries**
- **Utilizing JCM (Joint Crediting Mechanism) for realizing local benefit as well as global benefit**
- **Integrated Support, including:**
 - Finance
 - Technology Transfer
 - Capacity Building
 - Support for planning, MRV, regulatory formulation
- **Public-Private Partnership**
- **Contributing to NAMA of Vietnam with the intention to scaling up our subnational effort at national level**

Joint Crediting Mechanism (JCM)

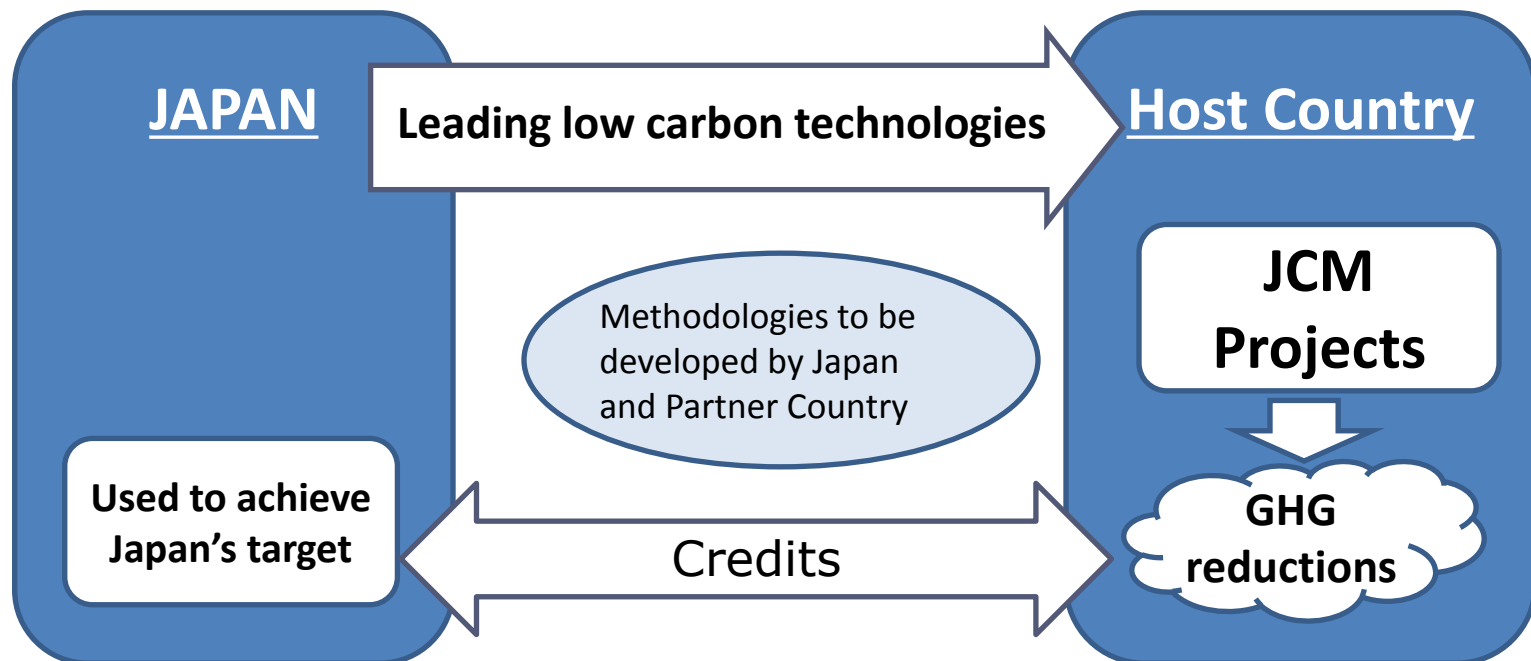
Purpose of JCM

- To facilitate diffusion of low carbon technologies
- To evaluate GHG emission reductions
- To contribute to the ultimate objective of the UNFCCC

Advantage of JCM

(Compliment to CDM)

- Simple procedures, Short processing time
- Applied to broader areas with co-benefits, including energy saving, transport, wastewater and waste management
- Applied to various countries



Participating Nation in JCM



Mongolia
8/1/2013
(Ulan Bator)



Bangladesh
19/3/2013
(Dhaka)



Ethiopia
27/5/2013
(Addis Ababa)



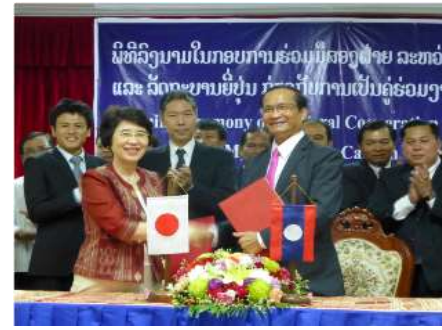
Kenya
12/6/2013
(Nairobi)



Maldives
29/6/2013
(Okinawa)



Vietnam
2/7/2013
(Hanoi)



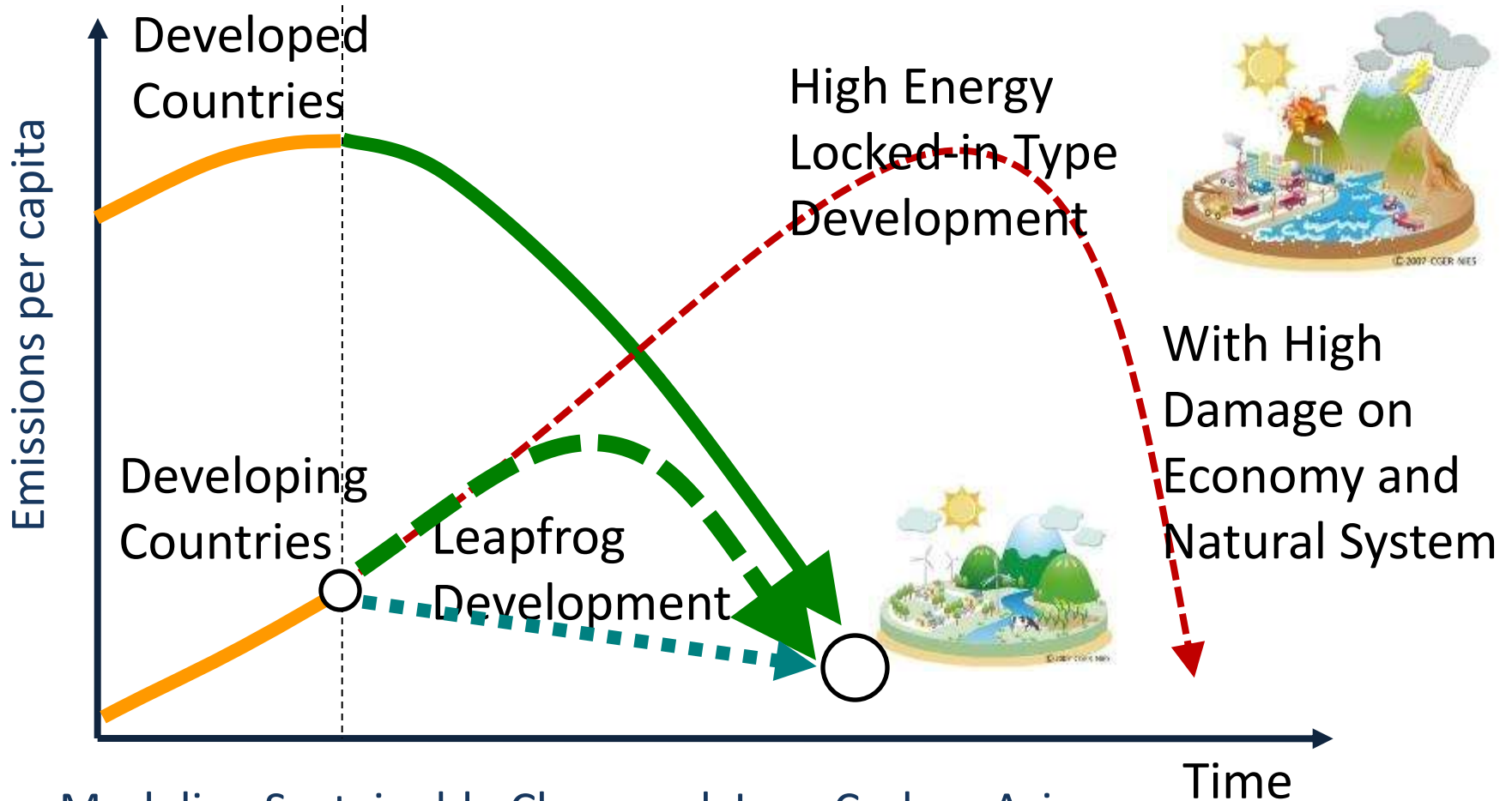
Lao
7/8/2013
(Vientiane)



Indonesia
26/8/2013
(Jakarta)

The 1st Joint Committee has been held in Mongolia, Bangladesh, Ethiopia, Kenya and Vietnam

Green Growth Path (Leapfrog Development)



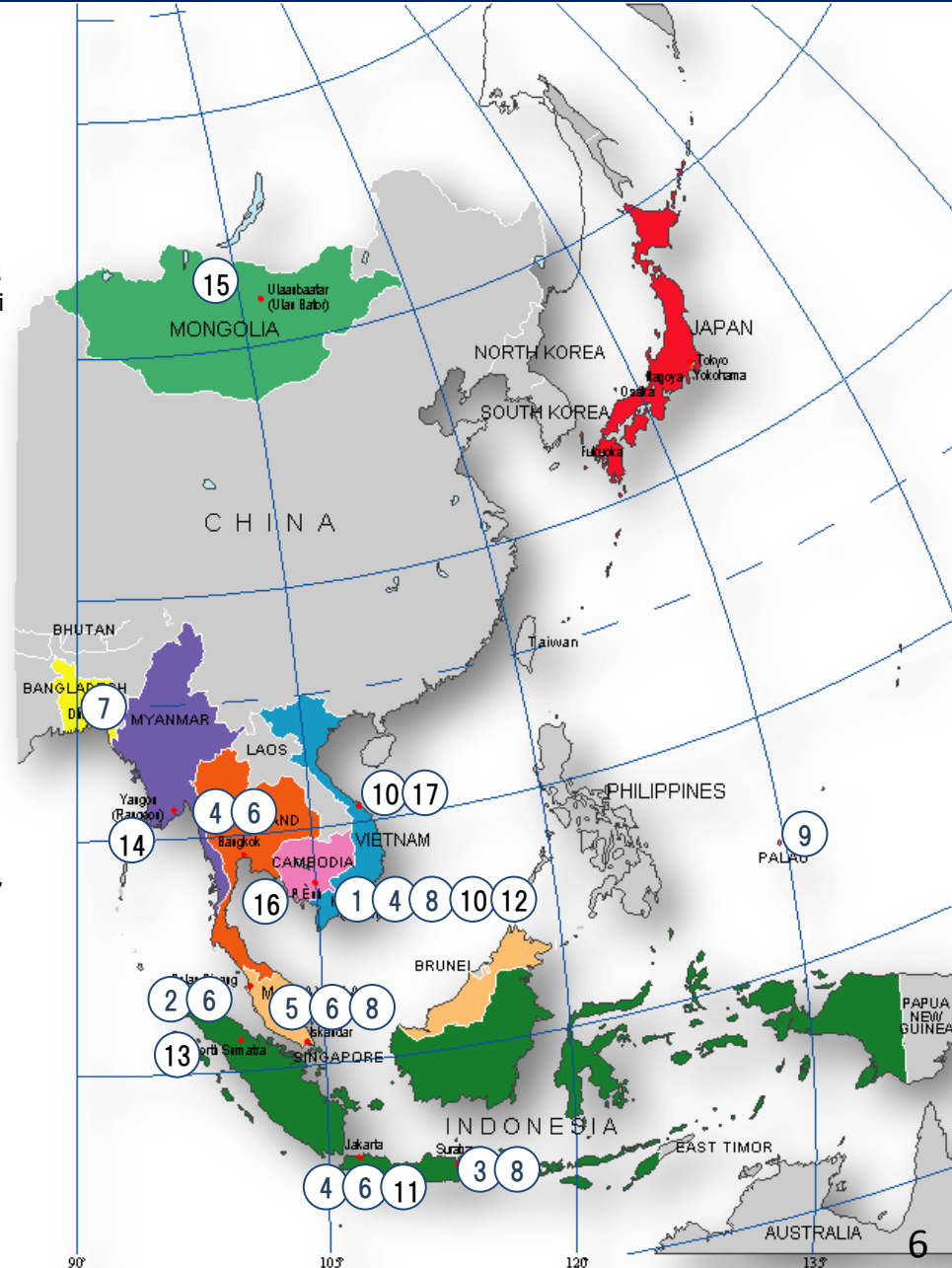
Modeling Sustainable Clean and Low-Carbon Asia

“Asian Low-Carbon Society Scenario Development Study” FY2009-2013, funded by Global Environmental Research Program, MOEJ

Feasibility Study using JCM

1. HCMC-Osaka city cooperation project for developing low carbon city

- Project for developing a low carbon society through "Waste to Energy technology" in Penang and Seberang Perai, Malaysia
- Technical assistance for designing a low-carbon city plan in Surabaya, Indonesia
- Feasibility study of dissemination of Japanese standard digital tachometer and unification of regional standard for the traffic pollution countermeasures in ASEAN metropolis in Jakarta(Indonesia), and Bangkok(Thailand),and Ho Chi Minh City(Vietnam)
- The feasibility study for large-scale formation of greenhouse gas emission reduction projects in Iskandar, Malaysia
- Strategic promotion of recovery and destruction of fluorocarbons in Jakarta(Indonesia), Bangkok(Thailand), Iskandar and Penang(Malaysia)
- Law carbon & safe water supply in rural area:CO2 free & green water supply project in Dhaka, Bangladesh
- Eco-friendly water supply system in ASEAN countries:CO2 half water supply project in Surabaya(Indonesia), Iskandar(Malaysia) and Ho Chi Minh City(Vietnam)
- Integration of GHG mitigation and adaptation measures in South-Pacific Island Countries
- Feasibility study on low carbon community development project by promoting and motor bikes in Ho Chi Minh City and Da Nang City, Vietnam
- Feasibility study on financing scheme development project for promoting energy efficiency equipment installation in Jakarta, Indonesia
- Wide scale project formulation feasibility study under JCM through diffusion of water saving equipment and energy saving equipment in Ho Chi Minh City, Vietnam
- Project for leapfrog development in waste and wastewater management sector for North Sumatra province in Indonesia
- Supporting low-carbon Yangon city through Joint Crediting Mechanism(JCM) project formulation
- Efficiency improvement of energy supply side and demand side in Ulaanbaatar City, Mongolia
- Quantification of GHG reduction effect of countermeasures in water supply sector and study of MRV methodology in Phnom Penh City, Cambodia
- Introduction, issue identification and evaluation of Japanese technologies of waste management and processing in Da Nang City, Vietnam



Target Cities in 2013

- 12 Cities was selected for pre-feasibility studies.
- Surabaya, Indonesia, Ho Chi Minh, Viet Nam and Iskandar, Malaysia are 3 flagship cities.
- Making active use of good relationship between Surabaya and Kitakyushu, Ho Chi Minh and Osaka

Ministry of the Environment
Government of Japan



City	Area of pre-feasibility studies
Surabaya	Energy management; Transport and traffic management, Solid waste management; Water and wastewater management
Ho Chi Minh	Waste-to-energy, Wastewater treatment, Public transportation, Electronic bicycle, Building Energy Management System, ESCO, Energy savings in water supply, Water saving equipment
Iskandar	Implementation of LCSBP (Low-Carbon Society Research Project) by using advanced Japanese technologies (Smart City, ESCO, Energy savings in water supply)

Cooperation between HCMC and Osaka up to the present ①

- Both cities have been cooperating in various fields for 20 years as Business Partner Cities.

July 2011

Memorandum on key areas of cooperation between the people's committee of Ho Chi Minh City and the Osaka City Government

(Economic relations and Environmental and Water Management)

- Dispatched a technology survey team
- Held local workshops
- Conducted a Feasibility Study (FS) for transplanting Japanese technology
- Accepted trainees from HCMC into various domestic organizations



Cooperation between HCMC and Osaka up to the present②

Waste management

- FS for integrated solid waste management system targeting municipal waste
- Support for creating a waste management action plan

Urban railway

- Dispatched an Osaka city officer to HCMC
- Assisted with the Line 1 project (urban railway)

Water supply

- Water-saving, environmentally-friendly water recycling project
- Study on the development of sustainable private-public water initiatives
- Study of HCMC's water supply improvement plan

Sewerage

- 2 professional engineers dispatched to HCMC sewage treatment plant
- Supplementary measures for flooding in view of climate change
- Professional training

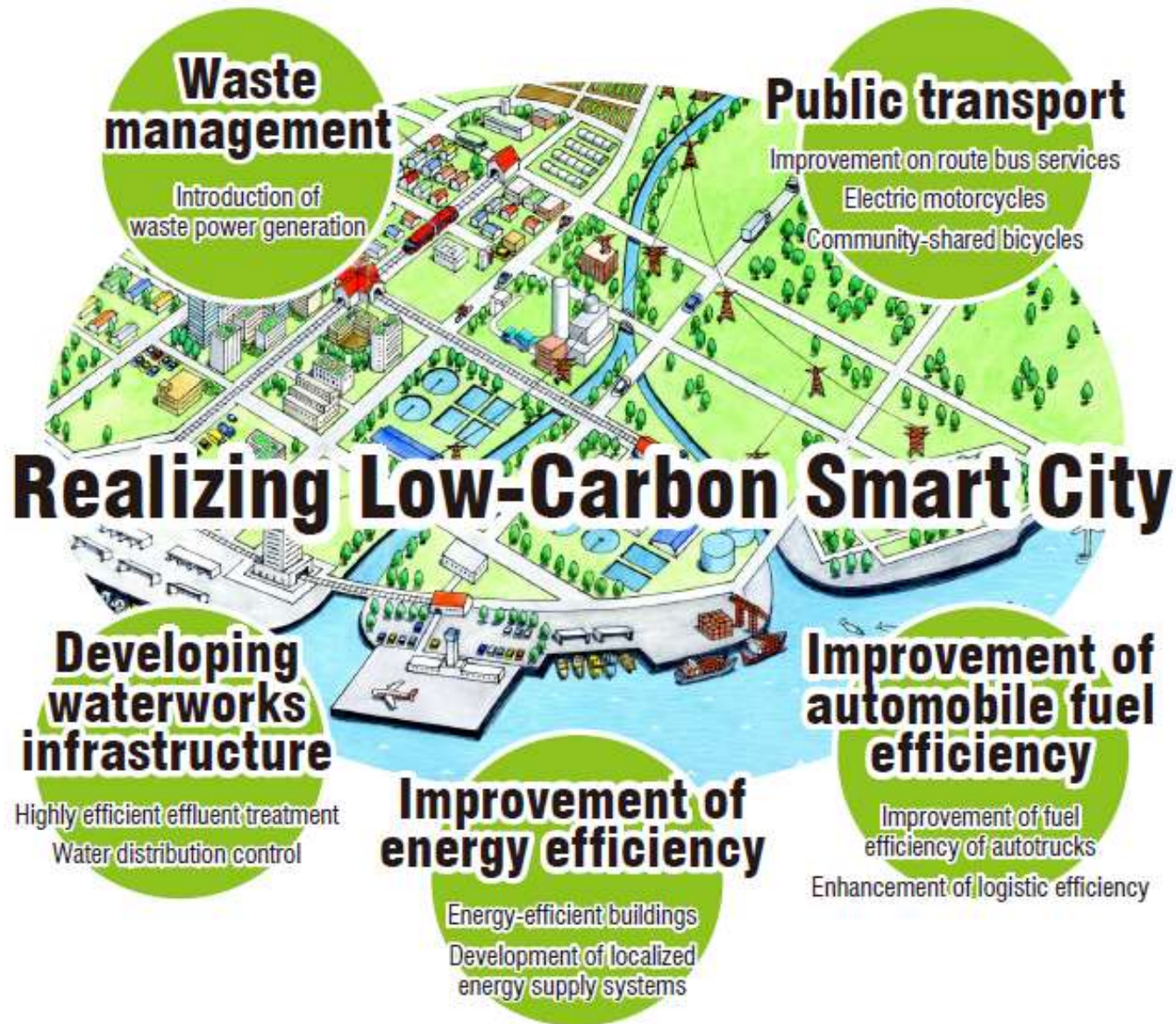
HCMC and Osaka's joint effort toward developing a low-carbon city

- The MOE selected HCMC and Osaka's joint effort as a flagship project for their low-carbon society initiative.
- The GEC serves as the project's secretariat, in charge of overall coordination.

Through the Joint Crediting Mechanism (JCM), HCMC and Osaka are cooperating to...

- Provide support packages for environmental administration and technologies.
- Establish a cooperative organization between cities to organizationally and systematically support management and operations.

HCMC Project Objectives



Focal Points for Fiscal Year 2013

1. Establishing a multidisciplinary cooperative organization between cities

2. FS in various areas concerning the low-carbon initiative

- City planning
- Spread of public transportation
- Better Energy Efficiency
- Waste to Energy
- High-efficiency water treatment

3. Reviewing the future direction of the low-carbon city master plan

4. Evaluating the financial scheme for the future



Courtesy of Hitachi Zosen



Courtesy of Shimizu

MOU on Developing Low Carbon City b/w HCMC and Osaka



- Signed by Osaka City Mayor and Chairman of Ho Chi Min City People's Committee on October 22, 2013
- The MOU agreed to do the followings until 2015:
 - Elaborate HCMC's Climate Action Plan by 2015 in collaboration
 - Hold Annual Mayor-level Policy Dialogue for promoting projects
 - Promote JCM projects and investments in identified priority areas on mitigation and adaptation in HCMC

Inter-Municipal Liaison

Osaka city

HCMC

- **Consideration of the overall plan for realizing low-carbon city**
- **Departmental support for lowering carbon emission in Ho Chi Minh City**
- **Dispatching Osaka City's municipal officers to Ho Chi Minh City to conduct training sessions on policies**

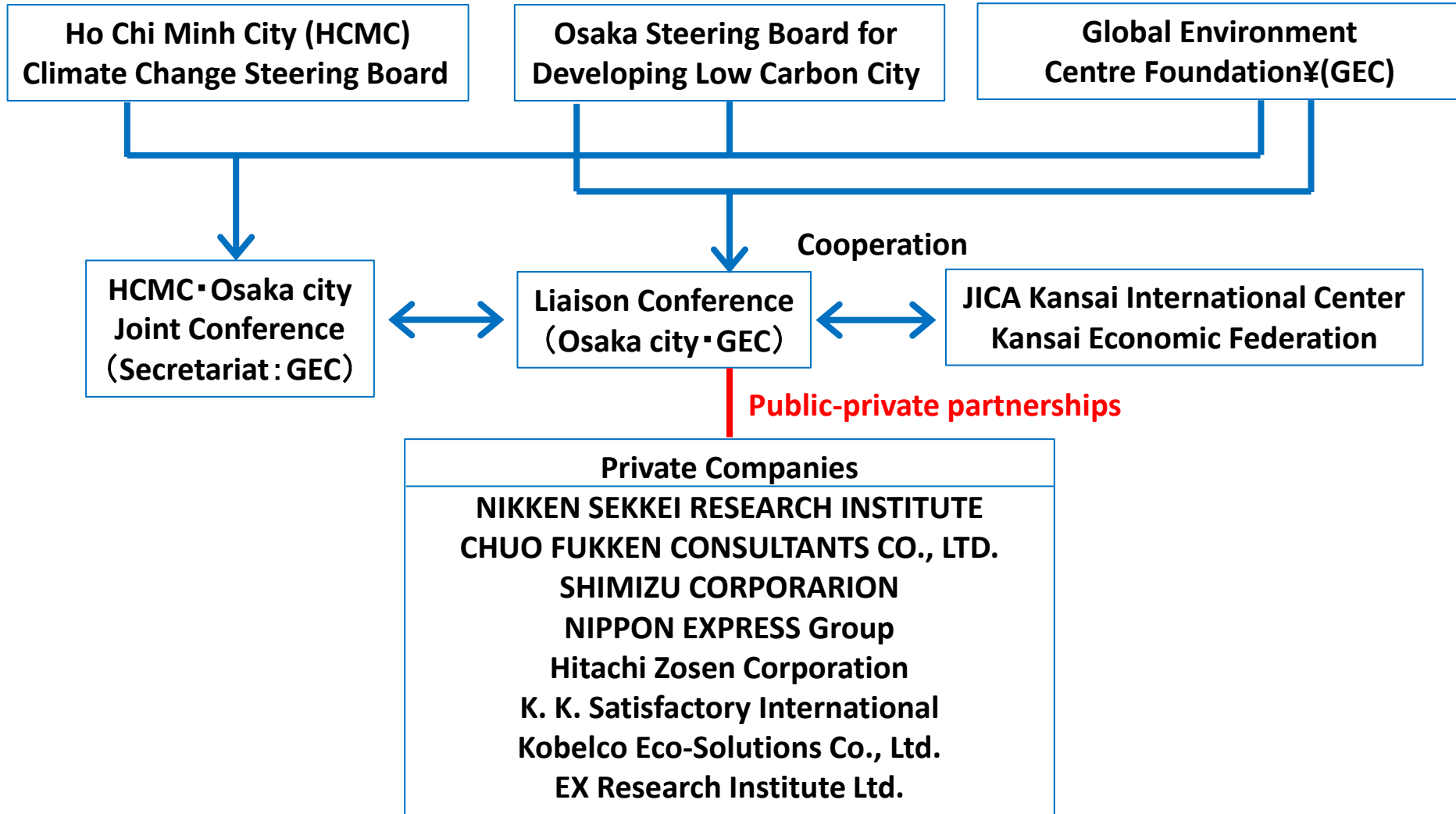
reference : Nikken Sekkei Research Institute

Providing steady, comprehensive support towards the realization of a low-carbon city

Fiscal Year 2013 Feasibility Study

	FS Title	FS Entity
Transportation	Improving trucks' fuel efficiency	NIPPON EXPRESS Group
	Reducing cargo traffic through cooperative transport and delivery	
	Improving route bus services	NIKKEN SEKKEI RESEARCH INSTITUTE
	Developing an infrastructure that allows for the utilization of electric motorcycles and community-shared bicycles	CHUO FUKKEN CONSULTANTS CO., LTD.
Energy	Energy-efficient buildings	SHIMIZU CORPORARION
	Developing a localized energy supply system	
Waste and wastewater management	Introducing a waste power generation system	K. K. Satisfactory International Hitachi Zosen Corporation
	Introducing a high-efficiency industrial effluent treatment system	EX Research Institute Ltd. Kobelco Eco-Solutions Co., Ltd.

Operations



Major Events in Fiscal Year 2013

Low-carbon City Support System

Official Launching Workshop

12th July in 2013 in HCMC

Strengthening the Inter-
municipal Liaison

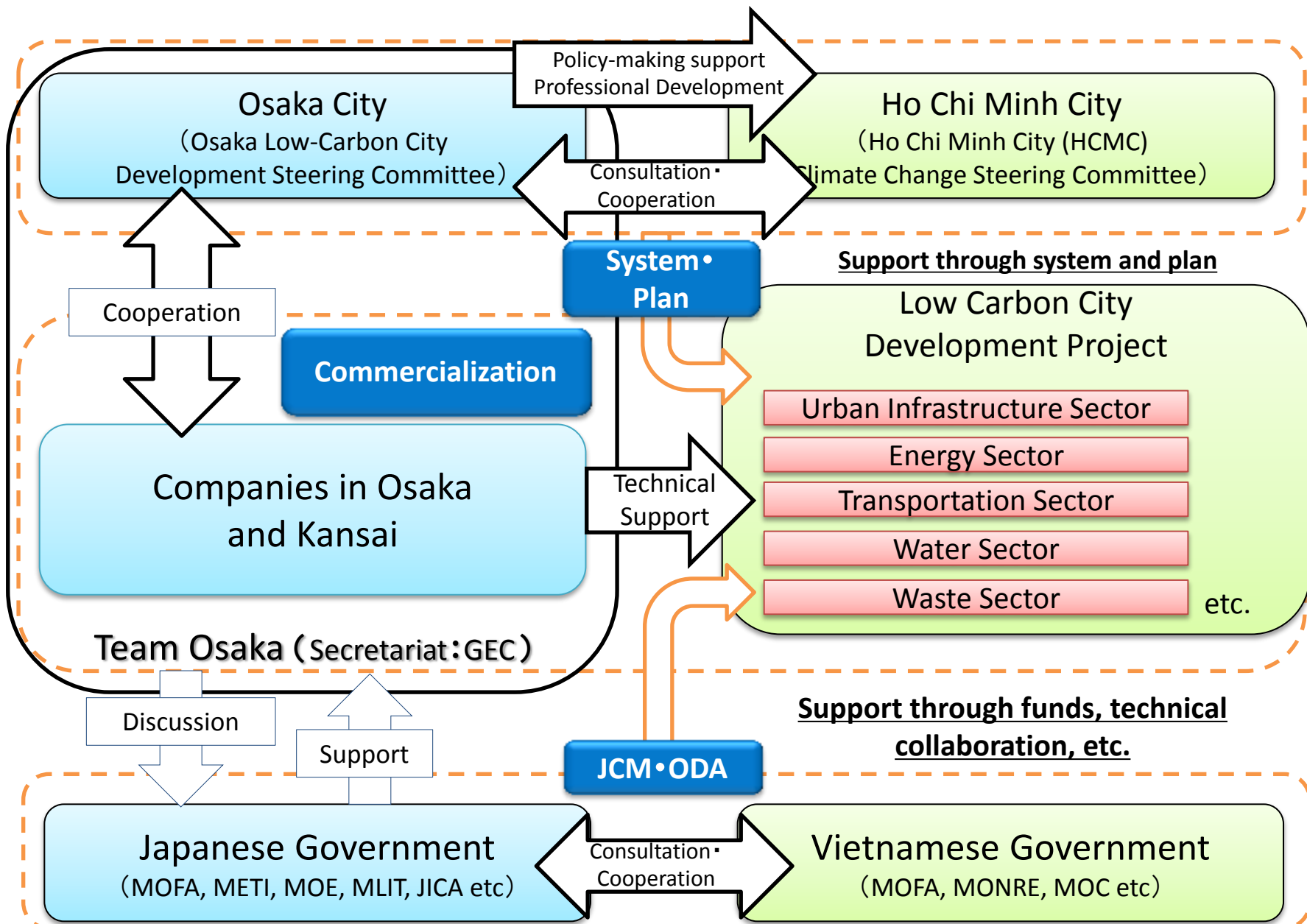
**Ho Chi Minh City and Osaka City International Symposium
for Developing Low Carbon City**

21st October, 2013 in Osaka City

Study Debriefing

scheduled for 14th February, 2014 in HCMC

Directionality of support for HCMC from Team Osaka



Plans and Expectations Following Fiscal Year 2013

- Support comprehensive policies based on principles for developing a Low-Carbon City
- Prompt implementation of joint projects with private companies and discovery of new projects
- Active dissemination of information at the international cooperative conference COP



- Along with the improved standards of living that follow economic development, realization of the development of Ho Chi Minh City as a low-carbon, recycling, and ecologically-friendly society, all in a single bound.
- Breakthrough in Ho Chi Minh City as a model for other Asian megacities facing similar challenges

Thank you very much!



- We will be updating our website to include the the latest information: <http://osaka-hcm-lcc.net/>
- For future correspondence or any other queries, please feel free to contact us: hcmc-lc@gec.jp
Tel: 06-6915-4122 (+81-6-6915-4122)