

# Ho Chi Minh City - Osaka City Cooperation Project For Developing Low Carbon City

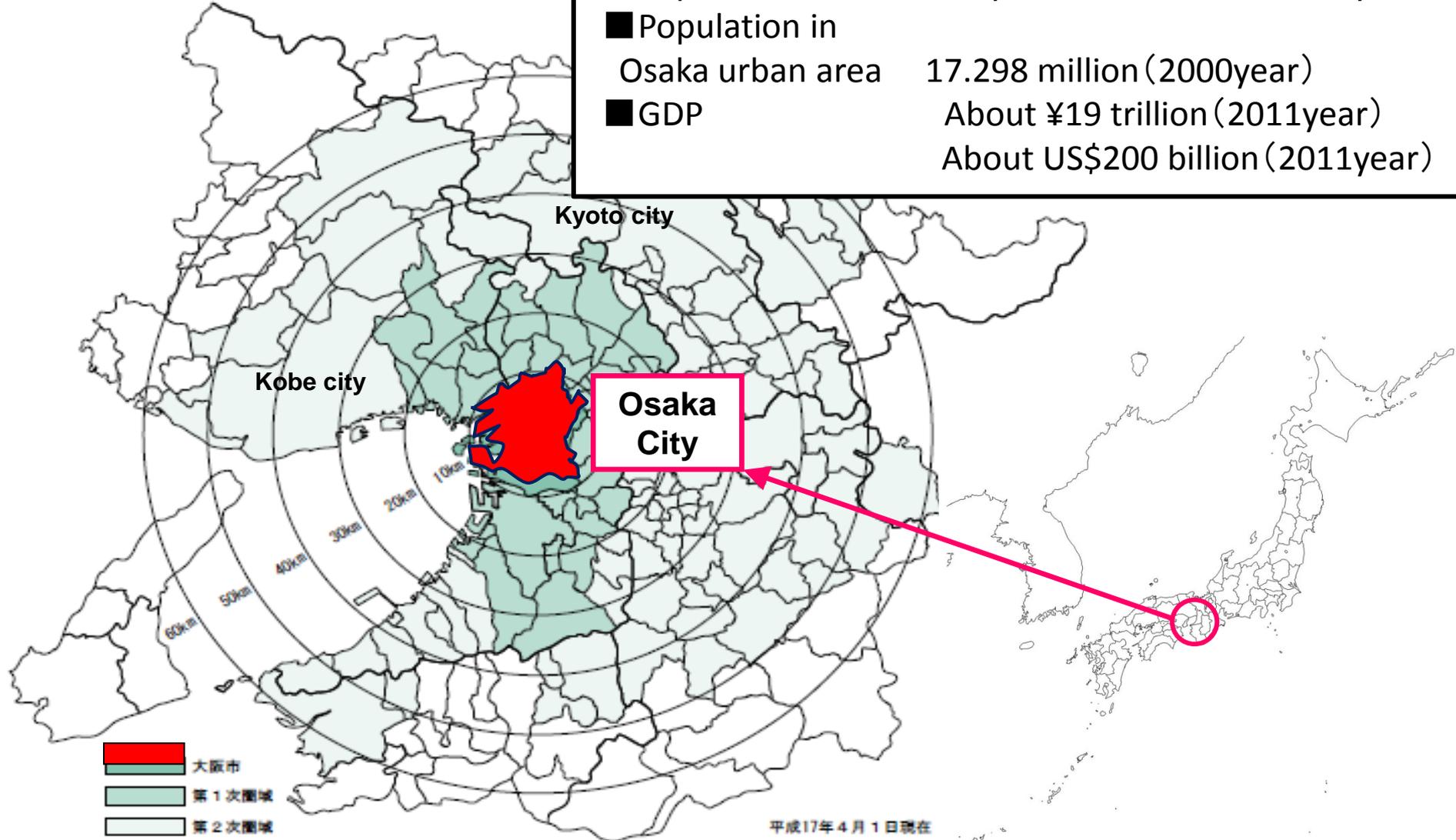


**Osaka City**



# Location of Osaka City

■ Area	223km <sup>2</sup> (2013year)
■ Population of Osaka City	2.683 million (2014year)
■ Population in Osaka urban area	17.298 million (2000year)
■ GDP	About ¥19 trillion (2011year) About US\$200 billion (2011year)





# Osaka: Japan's Former Capital

Osaka was the departure point for ships sending Japanese envoys to China (around the year 800)

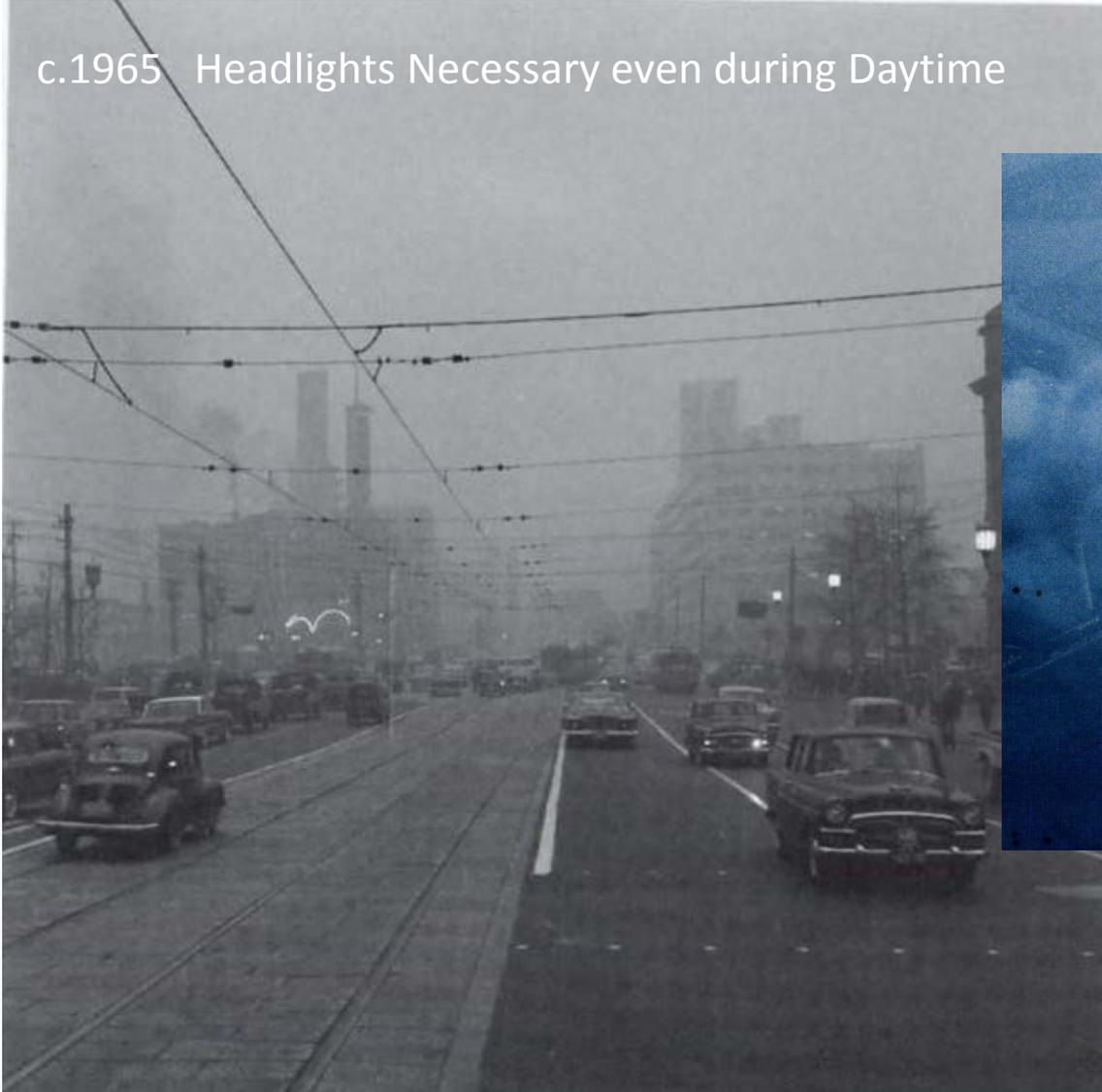


**Strong ties to Asia since ancient times**



# Postwar Osaka -Heavy Air Pollution-

c.1965 Headlights Necessary even during Daytime



c.1965 Red Smoke from  
Ironworks Chimneys  
(Above Taisho Ward, Picture: Michio Nakano)

# Solid waste management

Disposal to landfill sites



# Water pollution



Draining of harmful wastewater into rivers



Osaka City

# Current Osaka - Clean Water and Air-





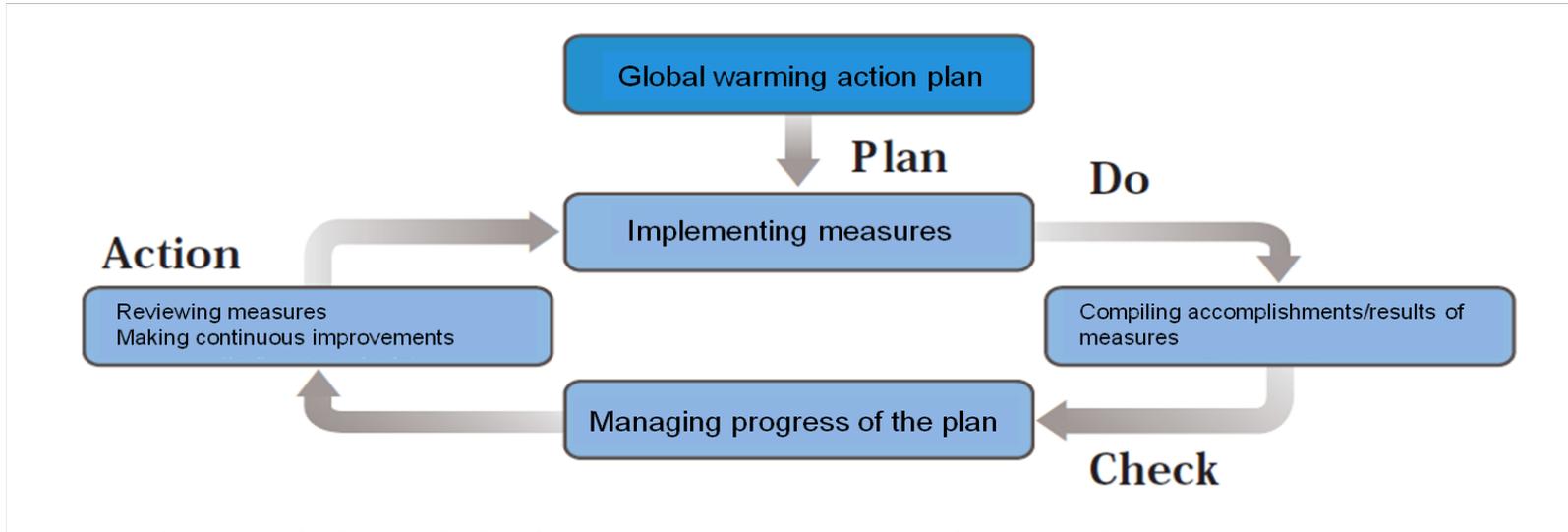
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# Experience and Know-how of Osaka City (Examples of Efforts)

## Practicing the PDCA cycle



## Making of the Global Warming Action Plan and Managing Progress



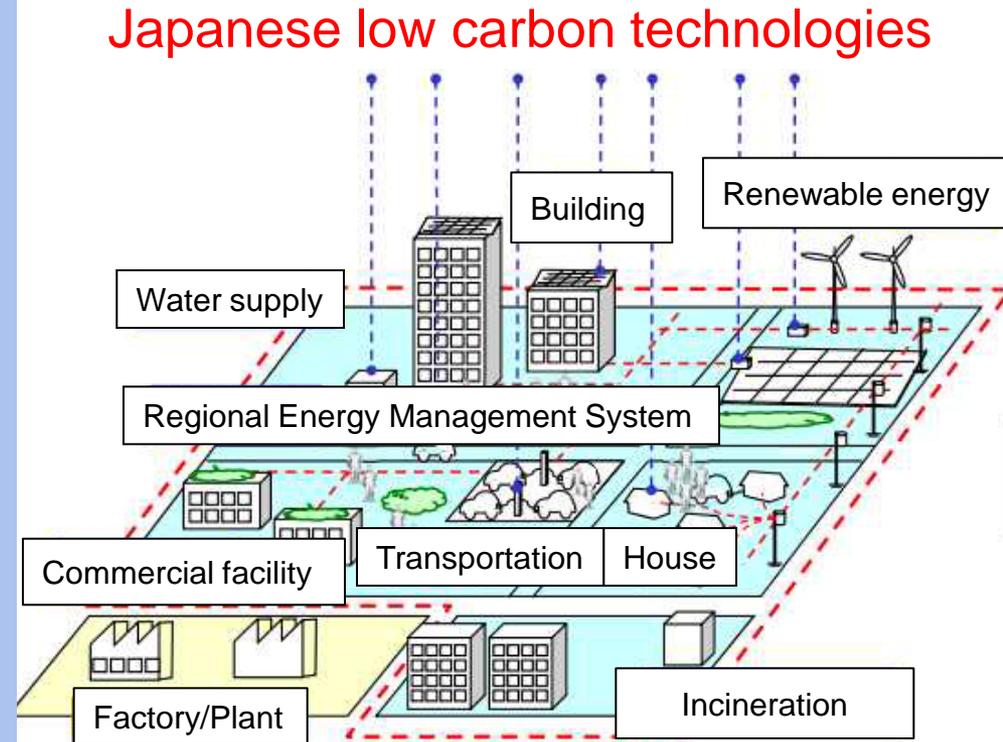
**Solid Waste Management  
( Waste to Energy )**



**Renewable Energy  
(Solar Power etc)**

# Ho Chi Minh City -Osaka City

## Cooperation Project for Developing Low Carbon City



**Expanding to a low carbon city planning**

Adapted from : Ministry of the Environment

### Based on Osaka City-Ho Chi Minh City Cooperation

Osaka City provides expertise and offers a support package that includes environmental technologies and administration



# Ho Chi Minh City's Economic Growth



**Realization of a Low Carbon City together with economic growth**



# Ho Chi Minh City -Osaka City

## Cooperation Project for Developing Low Carbon City

### Ho Chi Minh City

- Viet Nam's largest city in terms of both population and economic scale.
- Concern about the increase in GHG emissions and environmental impacts resulting from rapid urbanization and economic growth.



### Support from Ministry of the Environment, Government of Japan

- Signatory to the Joint Crediting Mechanism (JCM) between Japan and Viet Nam (July 2013)
- Selection as site or feasibility study for the development of JCM large-scale project (2013-)

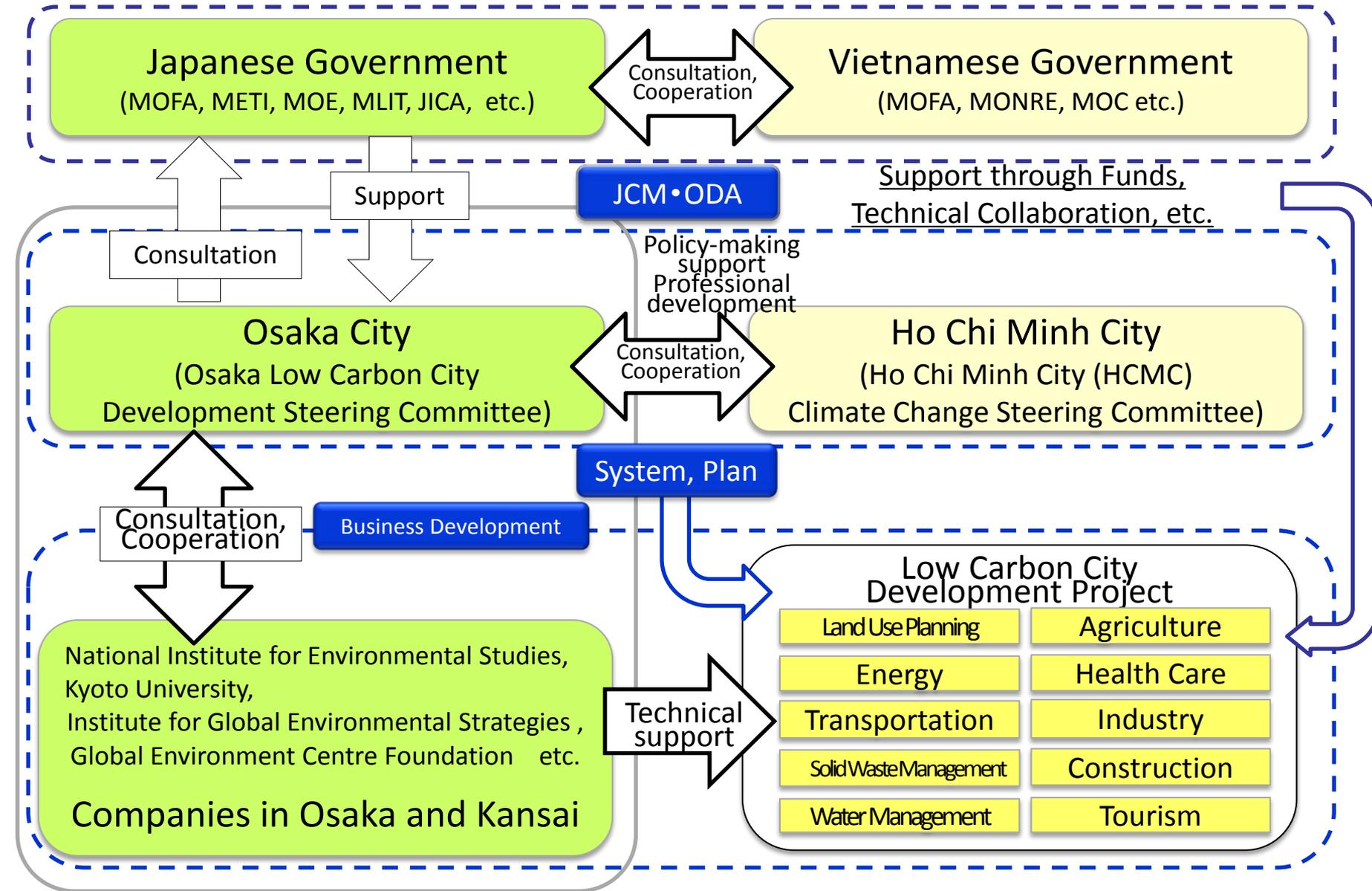
### Support from Osaka City

Conclusion of MoU on Developing Low Carbon City Between Ho Chi Minh City and Osaka City (Oct 2013)

**Implementation of comprehensive support for the development of policies in the sectors of urban infrastructure, energy, transport, water, and waste towards the sustainable development of Ho Chi Minh City and centered around cooperation between Ho Chi Minh and Osaka.**

# Cooperative Framework

## Between Ho Chi Minh City and Osaka city



# Support Activities by Team Osaka

## Policy-making Support and Professional Development towards Developing Low Carbon City

- Transfer of Osaka City's knowledge, experience, technology, and systems in urban management and urban development.
- Consultation on specific cooperation details through mayor-level policy dialogues.
- Sharing of knowledge and solutions for problems through trainings in Japan and working groups.

## Early Achievement of All Projects through Public-Private Partnerships (PPP)

- Project proposals for each sector (10 sectors), including land use, energy, transportation, waste, etc.
- Formulation and implementation of JCM project
- Development of the Ho Chi Minh City Climate Change Action Plan in order to strategically move forward with activities.



Local working groups on Climate Change Action Plan and projects



Briefing on JCM projects for Japanese companies



# Mayor-level Policy Dialogue



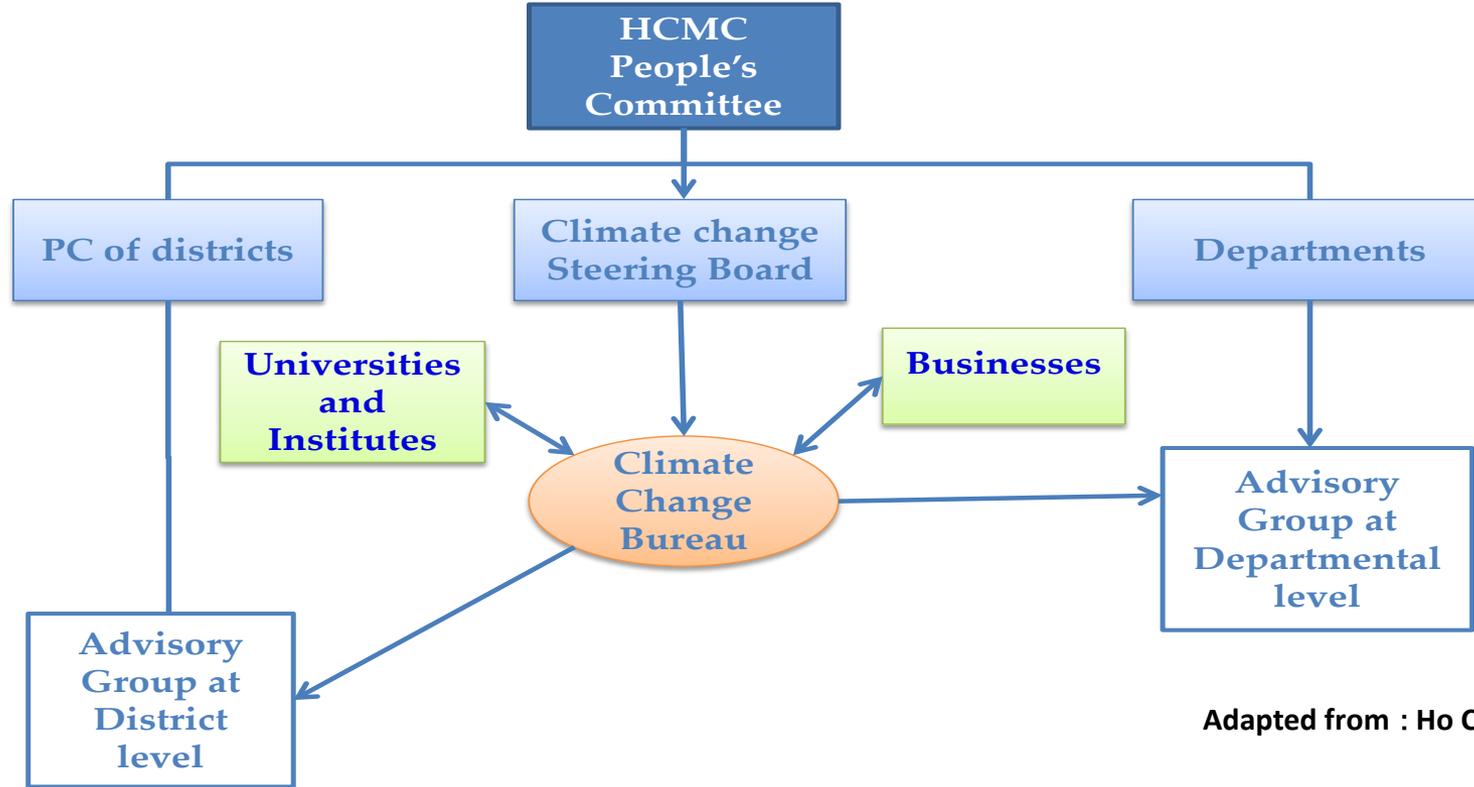
16 January 2015, Ho Chi Minh City



# Ho Chi Minh City Climate Change Action Plan (CCAP)

## Towards Forming a Low Carbon City

### Establishment of Implementation Structure



Adapted from : Ho Chi Minh City

### 10 area for CCAP

1. Land Use Planning
2. Energy
3. Transportation
4. Industry
5. Water Management
6. Solid Waste Management
7. Agriculture
8. Healthcare
9. Construction
10. Tourism

# Draft List of Suggested Projects

## Draft List of Suggested Projects for HCMC CCAP 2016-2020

- Legend
- Project already begun for preparation
  - Project already partially under operation/construction, or project to be prioritized by the proposal from Osaka City
  - Project to be implemented in the future

No	Sector	Project	Description of Project	Target of Project (*Unfunded etc means that project with concrete implementation plan.)	Related plans/programmes of HCMC	Merits of Project Implementation	Experience of Osaka City	Relevant request from HCMC
II-1	Transportation	Traffic Demand Management	Optimization of traffic demand of private vehicle and public transportation is promoted, and smooth transportation flow is comprehensively ensured. Specifically, route guidance, traffic control/regulations, and the provision	Urban area	- HCMC CCAP 2015 Appendix 1-419 "Development in HCMC" project in the 3rd target program in DONRE, 2013-2014	- Mitigation of traffic jams - Improvement of air quality	Osaka City Basic Environmental Plan (Promotion of Traffic Demand Management (TDM) method) - Seek to the restraint of demand for vehicles due to the promotion of TDM methods  4,000 traffic signals (Presented at High-Level Symposium held in Osaka, 21 Oct. 2013)	- "HCMC does not have appropriate transportation policy and system" comment from Dept. of Planning and Environment (DPE), at meeting with DPE on 21 Oct. 2013
II-2	Transportation	Development of underground malls	Creation of pedestrian space in the underground area by developing underground malls	Urban area	Construction of Metro #1 of HCMC	- Mitigation of traffic jams - Pedestrian's safety - Development of underground malls	Management of 6 underground malls in Osaka city by a Osaka local company (Osaka Chikagai Corp., Co., Ltd.) - In order to secure pedestrian's safety - Contribution to the mitigation of traffic jams	- "Improvement of fuel efficiency and load efficiency" (MoU signed by mayors of HCMC and Osaka City on 22 Oct. 2013, and presentation at High-Level Symposium at Osaka, on 21 Oct. 2013) - "Supports to establish IT cloud system including archives are appreciated" - "S held in HCMC, on 14
II-3	Transportation	Construction of Subway	Modal shift to public transportation by construction of subway	Urban area	Construction of Metro #1 of HCMC	- Mitigation of traffic congestion - Improvement of air quality	Osaka City promotes the further utilization.	- "Osaka City promotes the further utilization."
II-4	Transportation	Promotion of Use of Subway	Promote the use of subway as an alternative transportation mode, to achieve modal shift to public transportation	Urban area	Construction of Metro #1 of HCMC	- Mitigation of traffic jams - Pedestrian's safety - Development of underground malls	Osaka City has 9 subway lines (total rail distance is 137.8km) and approximately 2.3 million passengers/day use them. In addition, Osaka City promotes the further utilization.	- "The management of underground infrastructures such as underground electric cables and pipes should be undertaken because they are under disorder." (Comment from HCMC, at WG-CCAP#2 held at Rex Hotel on 21 Aug. 2014)
II-5	Transportation	Collection and management of traffic information	Collect and manage information on traffic volume, occurrence status of congestion, required travel time, etc. as basic information for traffic demand management	Urban area	Construction of Metro #1 of HCMC	- Mitigation of traffic jams - Improvement of air quality	Road traffic census (amount of traffic, speed and road conditions) of national and prefectural roads (including some city roads) are conducted once every 5 years.	- "Subway will contribute to a low-carbon city" (comment at the at WG-CCAP#2.2 held at DONRE on 22 Aug. 2014)
II-6	Transportation	Wide-range traffic control	Mitigate traffic congestion by traffic light cycle management by collecting information on traffic volume and congestion	Urban area	Construction of Metro #1 of HCMC	- Mitigation of traffic jams - Improvement of air quality	Road traffic census (amount of traffic, speed and road conditions) of national and prefectural roads (including some city roads) are conducted once every 5 years.	- "Subway will contribute to a low-carbon city" (comment at the at WG-CCAP#2.2 held at DONRE on 22 Aug. 2014)

Related plans/programmes of HCMC

Relevant request from HCMC



# Examples of JCM Projects

- Anaerobic Digestion of Organic Waste for Biogas Utilization  
Binh Dien Wholesale Market  
Japan company: Hitachi Zosen



- Eco-driving by Utilizing Digital Tachograph System ( HCMC and Hanoi)  
Japan company: Nippon Express

- Introduction of energy-saving technology in buildings  
Japan company: Shimizu Corporation



- Promoting park and bus ride system by using large-scale commercial facilities and eco-point system (Aeon Mall)  
Japan company: Nikken Sekkei Research Institute



- Integrated Solid Waste System including Energy Recovery in  
Ho Chi Minh City  
Japan company: Hitachi Zosen



# Osaka City's Global Networks and Strategy



## Growing with Asia as a member Asia

- **Realizing economic growth of Osaka and Kansai region**  
Access to Asian demand in a rapidly growing economy and tapping into the powerful energy of Asian Markets
- **Creating a virtuous economic circle in all of Asia**  
Contributing to Asian growth using state-of-the-art technologies, as well as the services of Osaka and Kansai



*Thank You for your kind attention*

