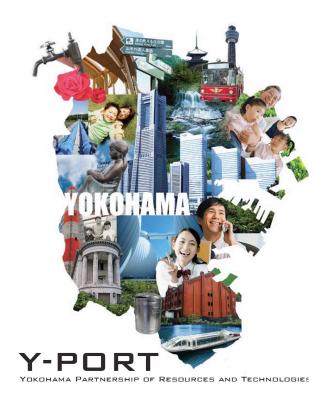


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# Smart City Management and City to City Collaboration



**Toru HASHIMOTO** 

Executive Director of Development Cooperation Dept., City of Yokohama

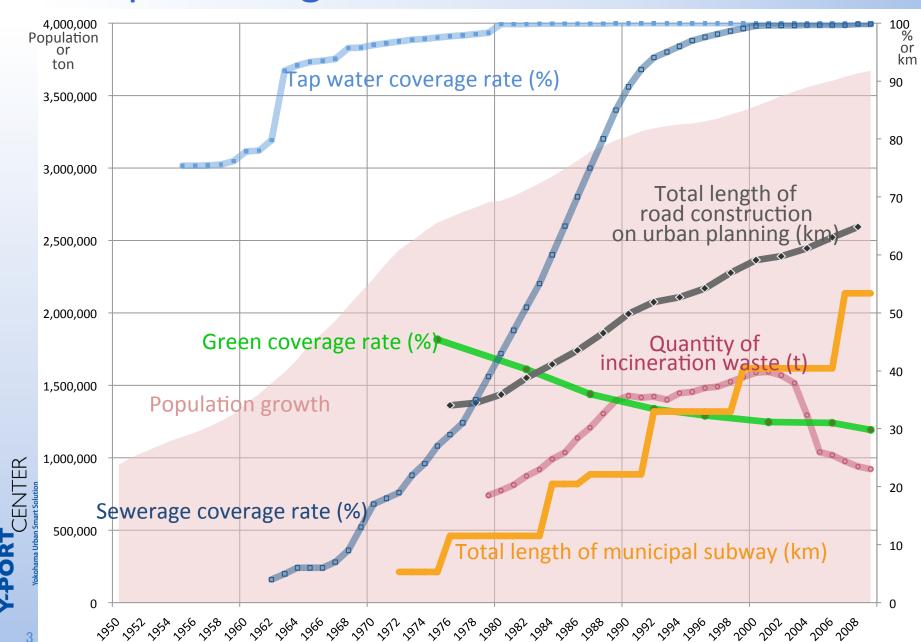
Y-PORT CENTER

# Smart City Management of Yokohama





### Population growth and infrastructure



# Diagram of urban planning of Yokohama during the period of rapid urban growth

Objectives of urban development

Promoting and Regulating
Private Development (Land Use
Regulation and Controlled Development)

Establishment of municipal regulations, etc

Projects
(Backbone of Urban fabric)

Six major projects, etc

Urban Design (Creating Urban Spaces at Human Scale)

History and scenery Attractive public spaces Citizen participation, etc

Research (Establishing Urban Science)

Establishment of a committee for urban planning survey and project teams, etc

Organization (Establishing local autonomy)

Mayor

Planning and Coordination Bureau

Bureau

Bureau



Bureau

Citizenes



1960s

#### **Citizen's Participation**



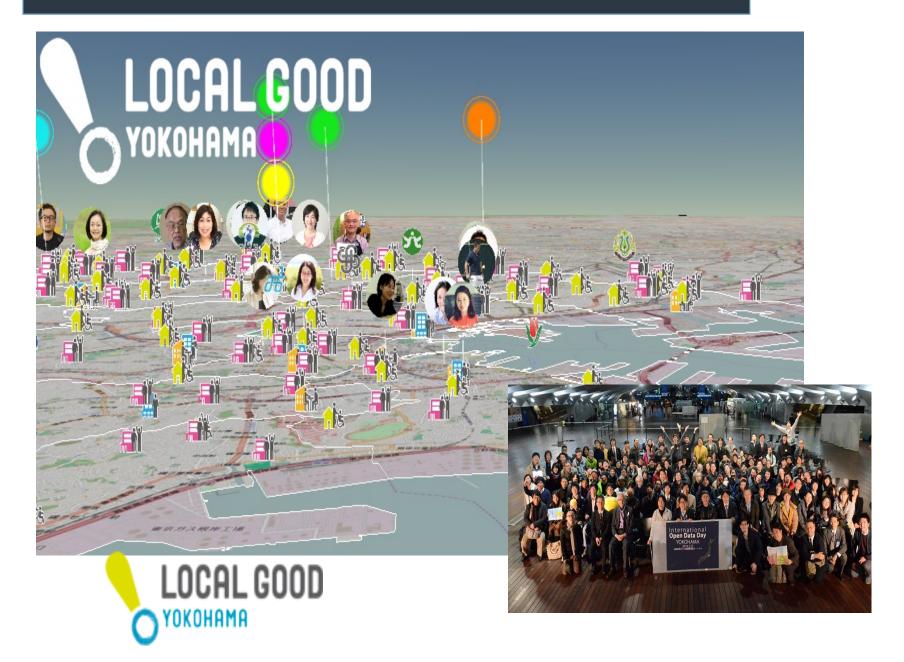






"The next-generation suburban city planning project" Homepage (Photos by City of Yokohama Tokyu Corporation )

#### **Local Good YOKOHAMA**



# **Creation of Pedestrian Spaces**







Downtown Promenade

右川町ルー



Kishamichi, Yamashita harbor line etc.

# **Development of Shopping District**



Isezaki Mall



**China Town** 



**Bashamich Shopping Street** 



**Motomachi Shopping Street** 

### Urban Planning that incorporates the history

### (Modern Architect)









Strong building (Hotel)



Nipponkoa Bashamichi building(Office)

Red-Brick Warehouse (Commercial facility)

# **Creative Cities and Cultural Interaction**











# DANCE DANCE DANCE YOKOHAMA 2012





# Minato Mirai 21 District: Showcase of Yokohama's urban development

Urban Planning

#### Greener City Center



Grand mall park



Integration of History, Culture and Art





**Red Brick Warehouses** 

MM21 Pedestrian Bridge LED Lightning







**Landmark Tower** 



Reusing rain and wastewater

Utilization of Renewable Energy towards Low Carbon Emission



#### Achievements of "Yokohama G30"

- ◆Problem: Waste emissions increasing faster than population
- ◆Target: Cut waste emissions by 30% by 2010 (from 2001 level)

Full separation of waste

Started in 2003

Collection/recycling of used products

- ◆ Target achieved 5 years ahead of schedule (about 40% reduction as of 2009)
- **◆** Effects of reduction
  - Saved ¥110 billion it would have cost to replace two incineration plants
  - Saved ¥3 billion in running costs
  - Equivalent to a 47% cut in CO<sub>2</sub>



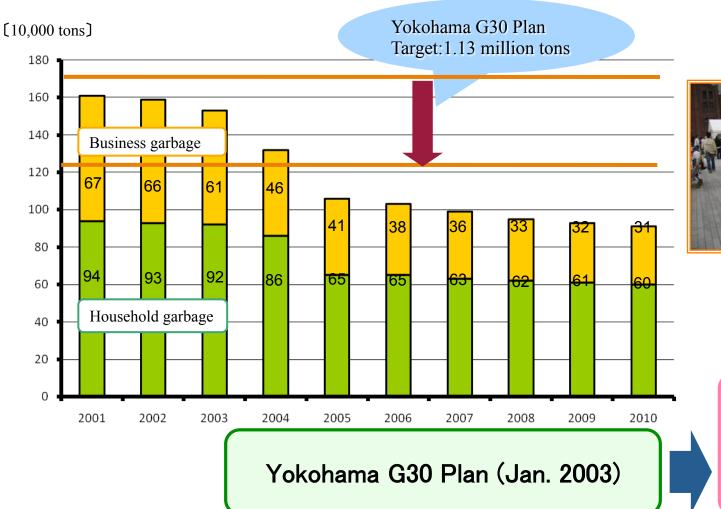
Taking every opportunity to enlighten, explain and encourage

- Explanatory meetings for citizens (more than 11,000 times).
- Campaigns at all stations; events, etc.

#### <G30> Achievement and next steps forward



#### Power of Yokohama Citizens





Yokohama 3R Dream (Slim) (Jan. 2011)

#### Yokohama's Expertise on Urban Management and Infrastructure Development





Solid waste management







G30 Plan, aimed at achieving 30% reduction of solid waste generation. Formulation of "Yokohama 3R Dream (Slim) Plan" for further reduction by 3R (Reduce, Reuse, Recycling).

# Water treatment





GHG emission reduction



Yokohama Smart City Project

Introduction of the optimal energy management system in districts with various land use such as business, commercial and residential, etc.



# Transformation of Urban Space

Last Two Decades

# Accumulation of core business in the central business district





2010

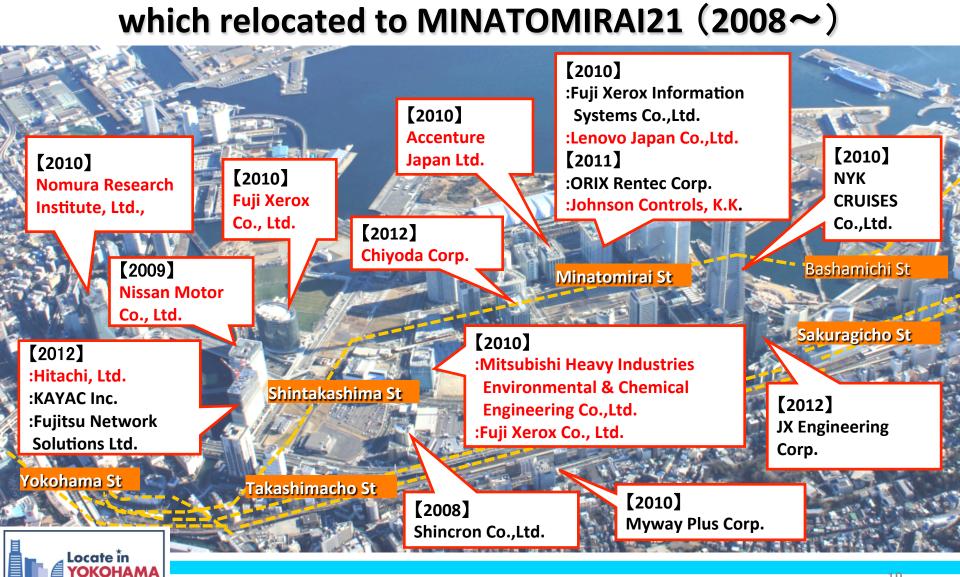


### Urban Development in Yokohama City

#### **Present**



# \*Examples of the companies



# Enhanced Convention Facilities and Major International Events











#### External Recognition on Achievement by the City of Yokohama

#### LEE KUAN YEW WORLD CITY • PRIZE

#### **2014 SPECIAL MENTION: CITY OF YOKOHAMA**







- The Lee Kuan Yew World City Prize is a biennial international award that honours outstanding achievements and contributions to the creation of liveable, vibrant and sustainable urban communities around the world.
- In 2014, Yokohama was selected for Special Mention, and will be awarded during the World Cities Summit in June.
- Yokohama was recognised for overcoming its urban challenges faced over the last 40 years through excellent partnership with its citizens and stakeholders. Also the Y-PORT programme was mentioned for its clever marriage of economic growth and international contribution by tying up with local businesses to export urban solutions to emerging cities.



# City to City Collaboration

-Transferring Yokohama's Experiences -



#### Yokohama's International Development Cooperation - Y-PORT

#### Yokohama

#### Partnership Of Resources and Technologies

International technical cooperation based on public-private partnership and drawing on the resources and technology of Yokohama

➤ It is essential to provide not simple products but solutions through combining technologies and knowhow of the public and private sectors

#### Enhancement of international technical cooperation

Support from central government

Y-PORT Project Knowhow and technologies of the City of Yokohama

Technological capacities of firms in the city







# Collaboration with Governmental/International authorities and Cooperation with Cities



Comprehensive Partnership Agreement with JICA (25th October, 2011)

 Strengthening cooperation to solve urban problems in developing regions

Memorandum of Understanding on Collaboration with Asian Development Bank on 16th October, 2013)

- Utilizing knowhow and technologies of the City of Yokohama and Yokohama private firms to ADB Project
- \* It was the first time for JICA and ADB to conclude the comprehensive agreement or MOU with a local government.



Memorandum of Understanding on Technical Cooperation for Sustainable Urban Development Signed with BMA on 21st October, 2013.



Contents of Agreement

- The City of Yokohama will offer technical advice in promoting sustainable urban development of Bangkok in the area such as energy management, public transportation, solid waste and waste water management, etc.
- The Parties will encourage participation of the private sector, academic institutions, and local communities which have expertise and knowledge on low carbon society development to achieve the above mentioned objective.
- The Parties will call for support of Central Governments of both sides and international organizations in pursuing appropriate assistance to implement technical cooperation.
- The Parties will share and exchange information which is essential to implement the above collaboration effectively.



#### Yokohama's Contributions Abroad ~City to City Cooperation~

#### Bangkok, Thailand

Population: 8.25 million

Area: 1,568 km<sup>2</sup>

MOU: Oct. 21, 2013

#### Cebu, Philippines

Population: 0.87 million

Area: 291 km<sup>2</sup>

MOU: March 28, 2012

#### Batam, Indonesia

Population: 1.15 million

Area: 715 km<sup>2</sup>

MOU: May 26, 2015

#### Da Nang, Vietnam

Population: 1.01 million

Area: 1,283 km<sup>2</sup>

MOU: April 9, 2013



#### Yokohama's Contributions Abroad

~Master Plans~

#### Bangkok, Thailand

Bangkok Master Plan on Climate Change



#### Cebu, Philippines

Mega Cebu Roadmap 2050



#### Batam, Indonesia

Project Mapping based on Batam Green City Action Plan(ongoing)

#### Da Nang, Vietnam

Action Plan for sustainable Development



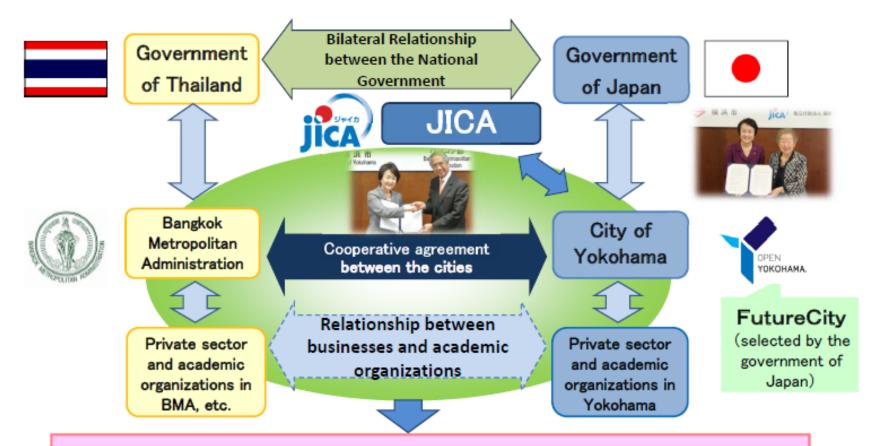




### City to City's Cooperative Relationship



#### Activities based on the City to City Cooperative Relationship



Supporting the BMA's Low Carbon Society Efforts through Public-Private Partnerships
-Beginning dialogs through public-private partnerships in order to resolve urban issues-



#### **PARTICIPATIVE PROCESS FOR MEGA CEBU 2050** Vision Statement and Attributes 13 LGU Consultancy Meetings Next Phase .... **Endorsement** MCDCB Mar 20 **Second WS** (Validation) Cities Comparison **Best Practices** Consultancy Meeting

**First WS** (Visioning)



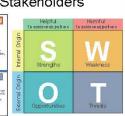


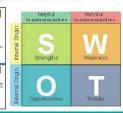
- SUBCOM Meetings
- ARENA 7
- Business Leaders
- Civil Society Leaders

2050 Statistical Forecasts Metro Cebu in 2050



#### SWOT Analysis with Stakeholders





City of Yokohama Development Experience

Steering

Committee

LGU Presentations on Development challenges









Inmates in Cebu dance to the Mega Cebu jingle -October 30, 2014



Club Mega initiates first Youth Convention - July 23, 2014



Mega Cebu campaigns in Don Carlos Gothong Memorial High School - July 23, 2014



セブ市都市圏の都市開発計画 市民との合意形成





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**Business Matching** & Technical Visit in Yokohama



#### Collaboration with Private firms in Yokohama City





Solid Waste Management and Resource Recycling in Cebu City by Mansei Recycle Systems Co., Ltd. & Carbon Free Consulting Corporation



Business through Y-PORT Center the Guun Corporation's waste plastic recycling plant opens in Cebu (12 May 2017)

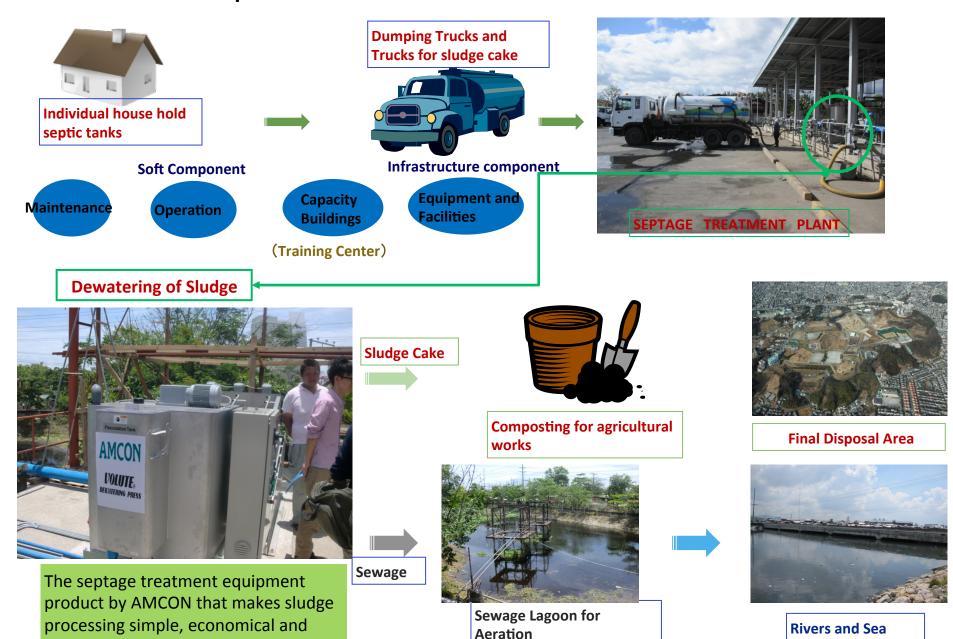








Simple, economical and convenient septage management with treatment Technologies of Yokohama based companies.



convenient.

# **Creative Innovative Urban Solutions**



### **Toward Promoting Collaboration with Asian Cities**

Through Active Cooperation with Aid and International Organizations and Private Sector Participation

- Providing Yokohama City's experience of urban development through masterplan formulation.
- Holding international conferences to share knowledge and knowhow of participating cities ⇒Asia Smart City Conference.
- Encourage mutual dialogues through official visits and training programs







#### Y-PORT CENTER - Knowledge hub for smart city management

#### Yokohama Urban Smart Solution Alliance

Over 10 Leading Private SMEs in Yokohama form up an alliance under the roof of Y-PORT CENTER to;

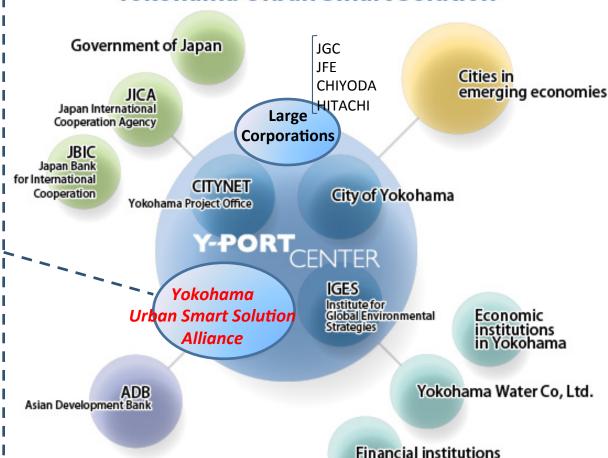
- Provide best available smart is solutions
- Establish a showcase of smart urban solutions
- Serve and promote as onestop shop with SME's knowledge and technologies

to cities in Asia and the world.



# Y-PORT CENTER

#### **Yokohama Urban Smart Solution**



#### The Asia Smart City Conference organized by Yokohama



### **Asia Smart City Conference**

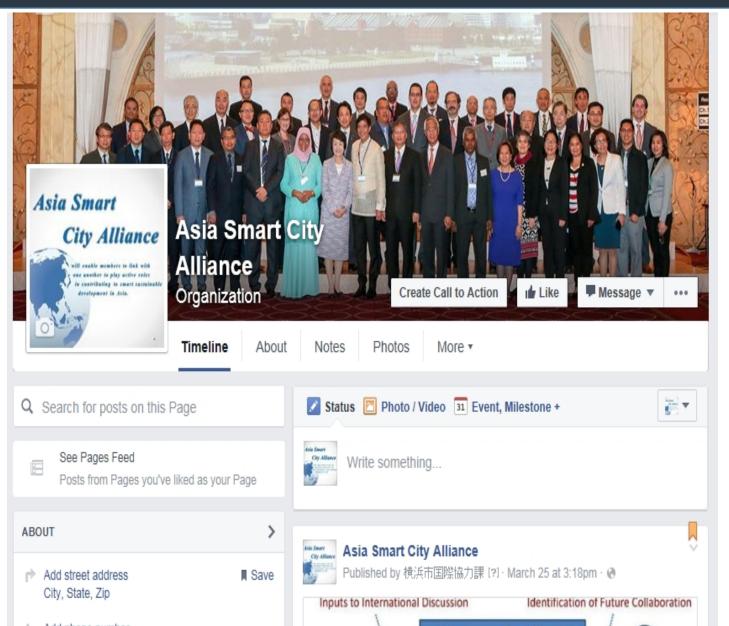








#### **Networking through Asia Smart City Alliance (ASCA)**





#### Transit Oriented Urban Area Development with Yokohama's Experiences



#### Key Words for Sustainable Development

- Leadership and Full Collaboration by Stakeholders:
  - Direction from Mayor and People-centered approach
- > Robust Partnership: including leading private sector firms
- Continuous Social Innovation:
  - Human resources and institutional development is the key
- Holistic Approach:
  - Livable, Sustainable, Vibrant, and Culturally Rich City Development
- Yokohama is not Tokyo, London, Paris, Singapore nor New York:
  Secondary and Edge City

