

February 9, 2016

International Forum on the "FutureCity" Initiative in Portland



FutureCity Yokohama

—Community development with civil participation



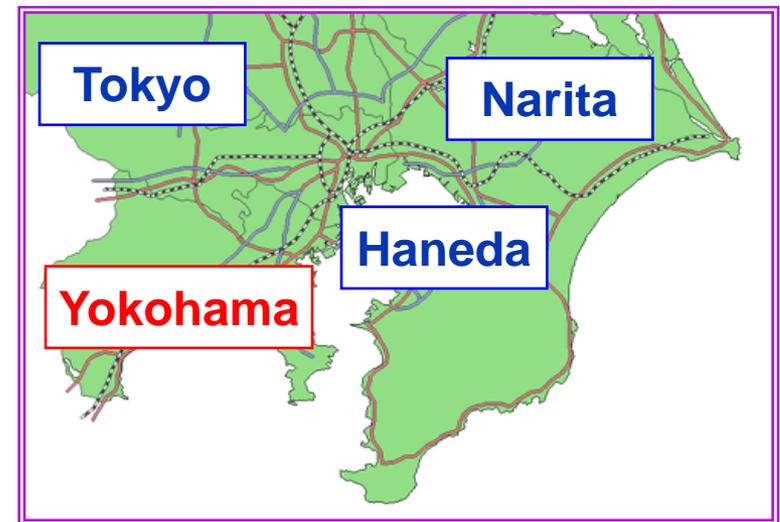
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City of Yokohama Overview



- International Marine Eco-city
(156 years since the opening of the port)
- Population: approx. 3.7 million
(the largest municipality in Japan)
- GDP: approx. 12.5 trillion yen
(USD 100 billion)
- Access Haneda International Airport in as little as 21 minutes
- Rapid development and urbanization



History of Yokohama: overcoming major challenges

1859 Port of Yokohama opened

Initially, it was a small village.
With the opening of the port, Yokohama became Japan's international port town.

1923 Great Kanto earthquake

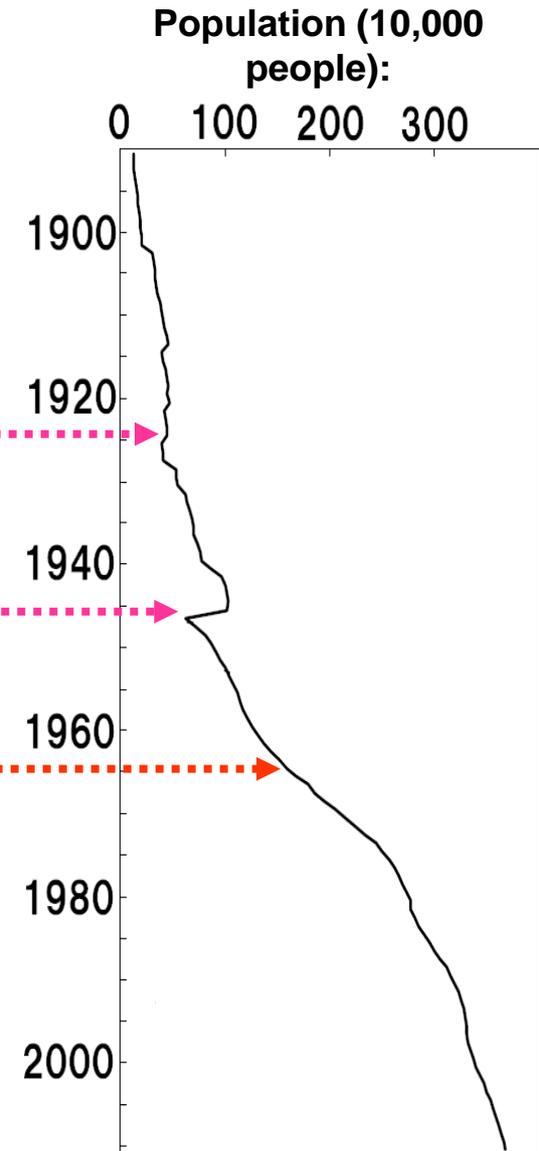
Yokohama sustained devastating damage, but through the recovery efforts, the fundamental framework for today's urban area was developed.

1945 Bombing of Yokohama

Key areas in central Yokohama were occupied by the US forces.

1965- Economic growth

Migration from rural areas ⇒ urban sprawl
⇒ **Rapid deterioration of the residential environment**





Yokohama's "5 Major Challenges"

- Environmental disruption
- Waste
- Roads and traffic
- Water resources
- Public areas





Yokohama's "6 Major Projects"

- Reinforcement of central urban area
- Land reclamation off the Kanazawa ward shore
- Kohoku New Town development
- Installing a high-speed railway
- Building a highway
- Construction of the Yokohama Bay Bridge



Civil movements within Yokohama City

City population:	Approx. 3.72 million (the largest municipality in Japan)
Households:	Approx. 1.65 million
Local community council member households:	Approx. 1.24 million (76% of all households)
NPOs:	Approx. 1,300 bodies



Citizens with high public awareness

Yokohama G30 Plan-efforts and outcomes

- Problem: Waste was increasing more rapidly than population growth in the city
- Goal: Reduce waste by 30% in 2010 (baseline: 2001)

Strict implementation of waste separation rules

Commenced in
FY2003

Collection and recycling of used items

◆ Goal attained

- 5 years earlier than planned
- Waste reduced **by approx. 40%** in 2009

◆ Benefits

- Two waste treatment plants became redundant;

110 billion yen saved on construction cost

3 billion yen saved on operational cost

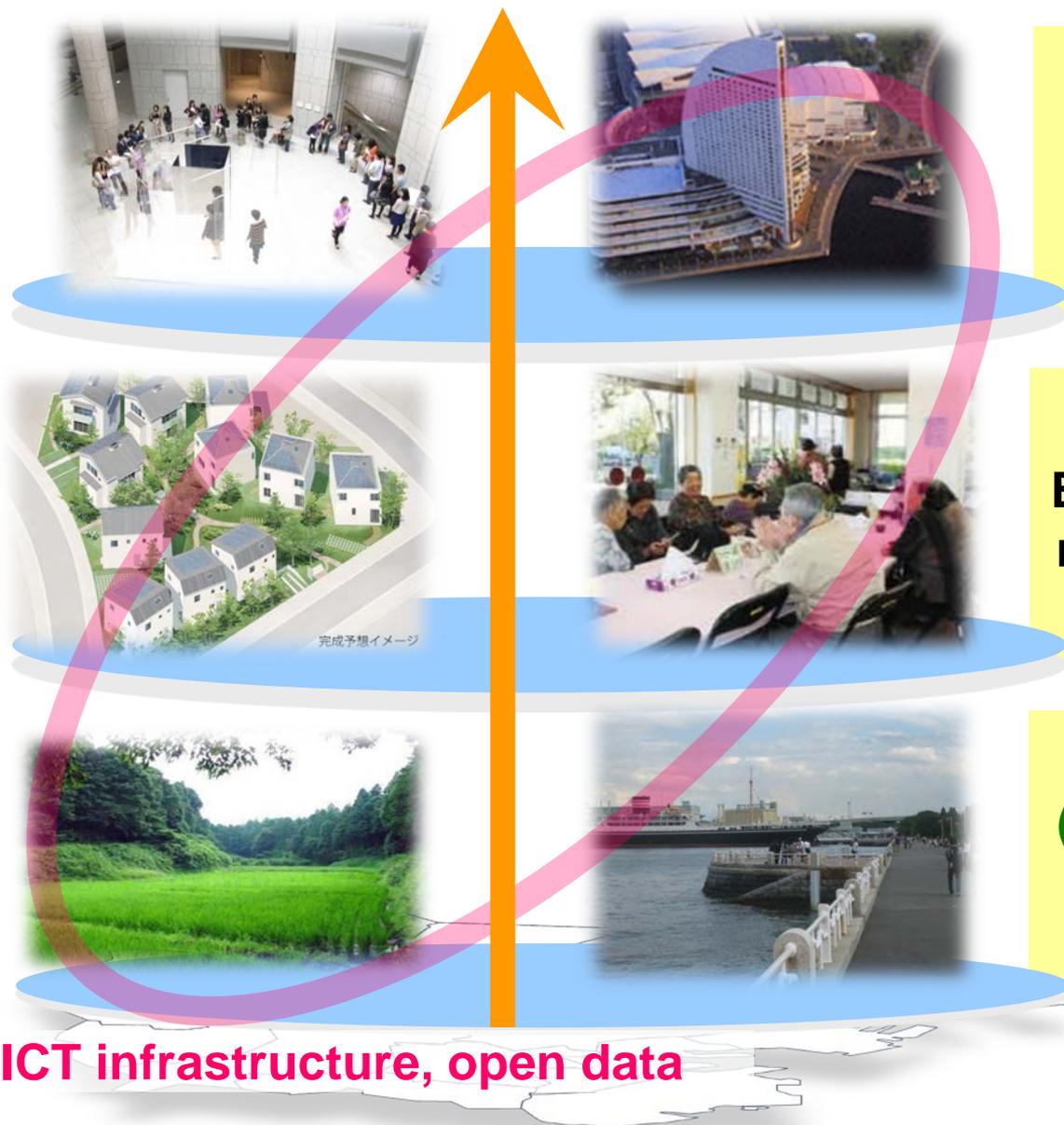


Seizing every opportunity to raise awareness

- Civic meetings (more than 11,000)
- Promotional campaigns at all railway stations in the city, as well as at event venues.

Yokohama was chosen as one of the **Eco 2 Cities**
(**Ecological Cities as Economic Cities**) in 2009

FutureCity: Yokohama and the future



Activities

Culture, art, industries,
business and community
activities

Social infrastructure

Energy network, healthcare,
nursing care, social welfare
and childcare

Natural environment (Natural infrastructure)

Water, greenery, air and
ground

ICT infrastructure, open data

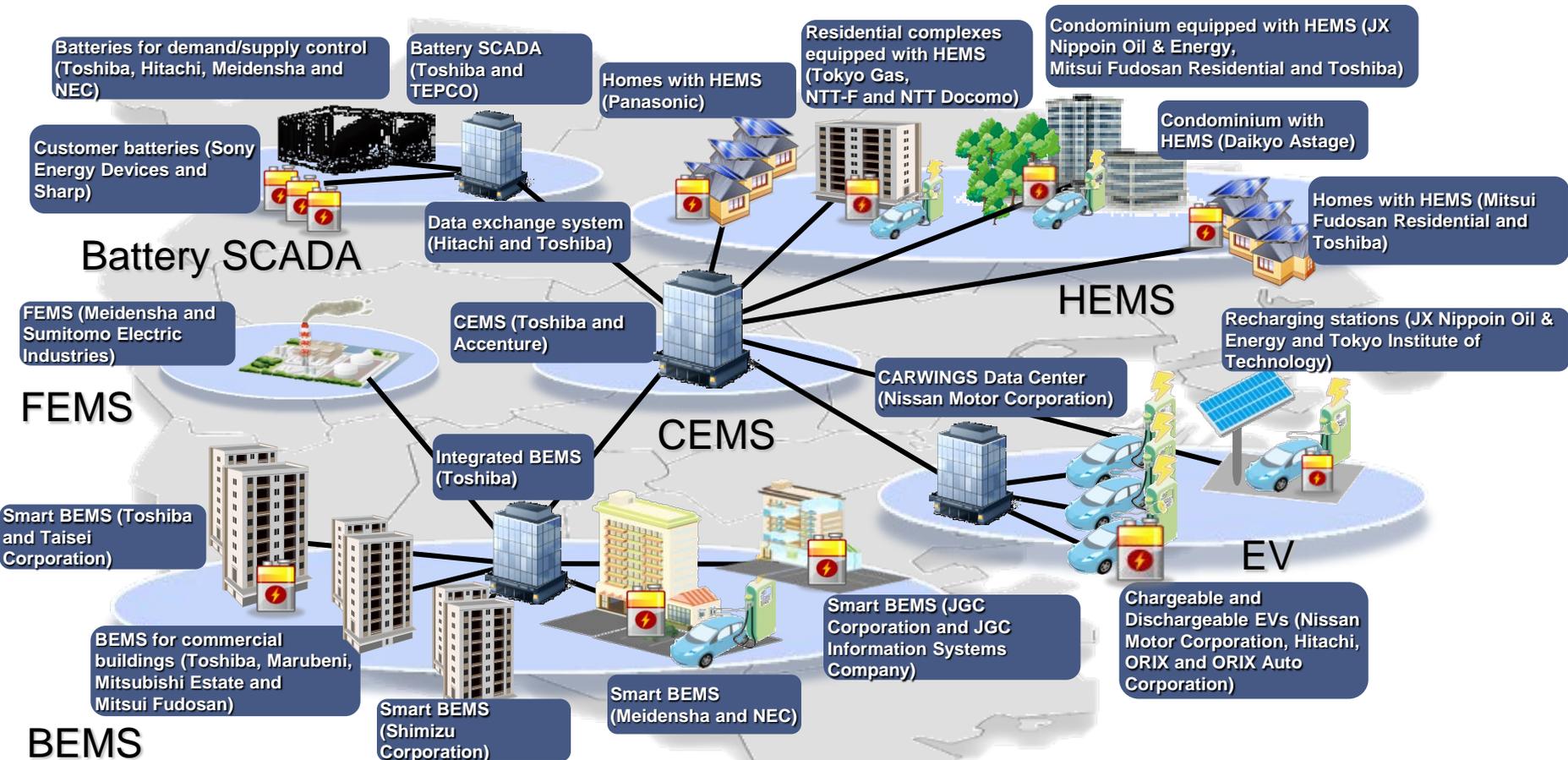
Yokohama Smart City Project Overview

Development of community-based energy management covering a large area of existing urban districts and its feasibility project

■ Installed/target (between FYs 2010 and 2014)

Home Energy Management System (HEMS) (4,200 / 4,000 cases)

PV panels (37 MW / 27 MW), electrical vehicles (2,300 / 2,000 units)





- This unnamed family pays close attention to energy-saving everyday
- The family joined the project on March 13, 2013, and installed an HEMS and PV power generation system.
- With the HEMS terminal, it is easy to understand the energy generated and sold because it is on display; it helped to raise awareness in the children.
"The children get excited to find the system 'selling' energy when they come home from school."
- The mother of the family also appreciates the benefits of the HEMS: "It helps me to realize how much energy I use when doing housekeeping activities like vacuum cleaning."

Working with these types of **citizens with high awareness**, Yokohama has achieved 4,000 cases of HEMS installations

Revitalization and regeneration of suburbs

Development and promotion of a sustainable, suburban residential district model



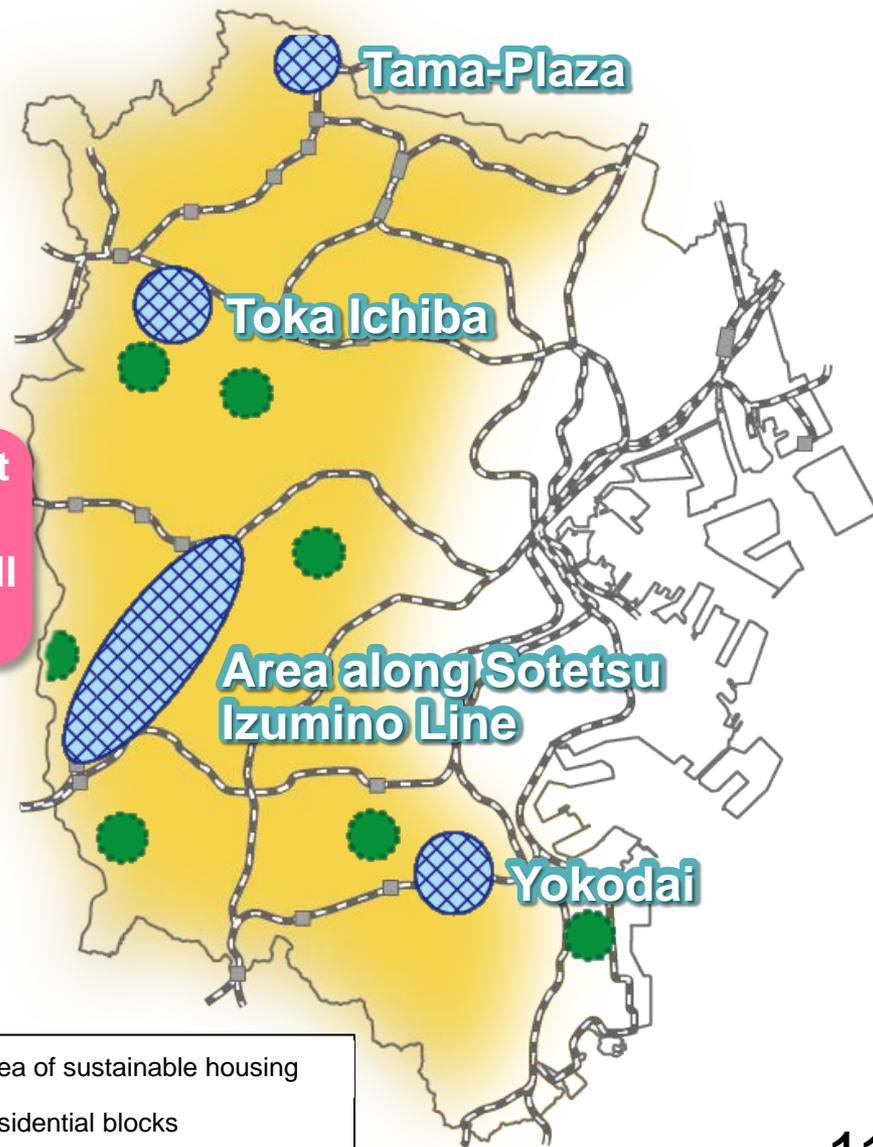
Sustainable residential district model project



Revitalization of residential blocks

© City of Yokohama 2015

Rolling out
successful
cases to all
wards



Next-generation community development: Resident-driven projects

Local residents proposed 15 projects, aiming to realize lively and resourceful communities with charm

- Tama Plaza night walk: light brings the town-members together

A collaboration project between an art project organization company and local shop owners



Tama Plaza night walk
(Dec. 14, 2013)

- Tama Plaza electric power project

Local residents learn and think about renewable energy, and develop their unique 'local power supply'



- Tama Plaza oil development project

An initiative to collect and recycle used domestic cooking oil as a reusable energy resource.

- Sanhome cafe

Providing a space for local communities to serve as a venue for revitalizing local activities and creating new communities

- Flash-mob executive committee

Organizing and conducting original performances (flash-mob) by local community members



Flash-mob
(Nov. 4, 2013)

Yokohama Eco School (YES)

Under the slogan "Learn global warming countermeasures in Yokohama," various bodies from the civil, organizational, business and academic sectors offer learning and action opportunities concerning environmental issues and global warming. The school aims to promote these activities as a city-wide initiative.



YES partners: 144 organizations
(as of Dec. 18, 2015)

Lectures: 377 (FY2014)

Participants: Approx. 35,400 people
(FY2014)

- a logo symbolizing the future image of Yokohama



Laugh. Eat. Learn. Work. Play. Take a deep breath.
Everything that is needed for living is within a short distance.
Port and Hill, Culture and Nature. New and Historic.
A town that is at times complex and enfolds many differences,
where people can live together comfortably. A town where you can
be natural and free.
A town where we can meet one another, communicate and enjoy
ourselves.

That is the the future 'City of Yokohama' that town residents have
imagined.

The future 'City of Yokohama', which has accepted many different
things over a long period of time and is creating new things, has
already started.

The present and the future are connected by real diversity through
the opening of the port and the strength of the residents who are
creating an environment in which it is comfortable to live.

An open and free wind blows here.

Let's create that 'City of Yokohama' together.

Embodying many citizens' future hopes for Yokohama



Source: City of Yokohama Culture and Tourism Bureau website



Thank you



Next Generation Suburban City Planning Project
(Photos by City of Yokohama and Tokyu Corporation)