Yokohama's City to City Collaboration on Circular Economy and Sustainability

Toru Hashimoto
Director General
International Affairs Bureau
City of Yokohama







Achievements of "Yokohama G30" followed by 3RDream



- **◆**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 CO₂



Taking every opportunity to enlighten, explain and encourage

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



\sim Waste Sorting by Citizens \sim

Before G30 Plan: 7 types















Burnable waste



Basing on G30 Plan: 15 types















Burnable waste











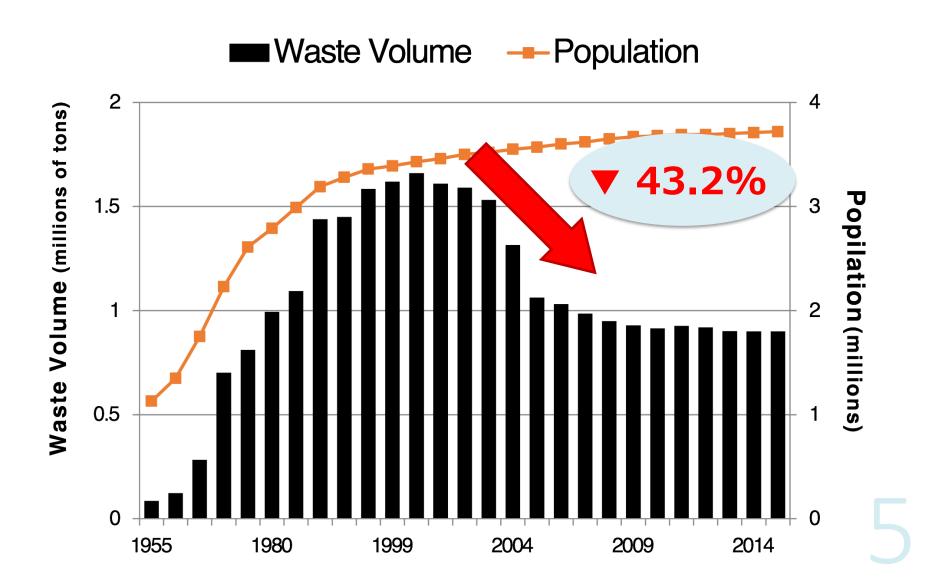






New categories

Transition of population and the total amount of waste





\sim Raising Citizen Awareness \sim



Briefing Sessions
About 11,000



Early-Morning Instructions
About 3,300



 \sim Raising Citizen Awareness \sim

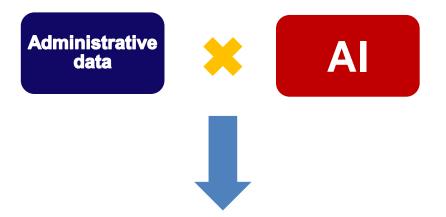
Environmental Awareness Classes

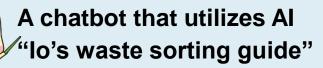






~Raising Citizen Awareness~





(Demonstration tests began in March 2017, and full-scale introduction began in April 2018)

Effects

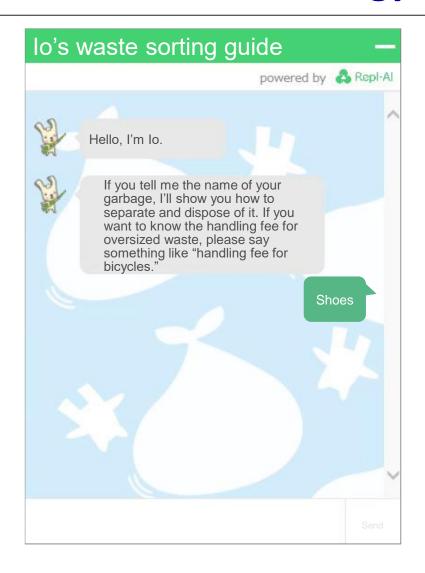
(Actual results in FY2020)

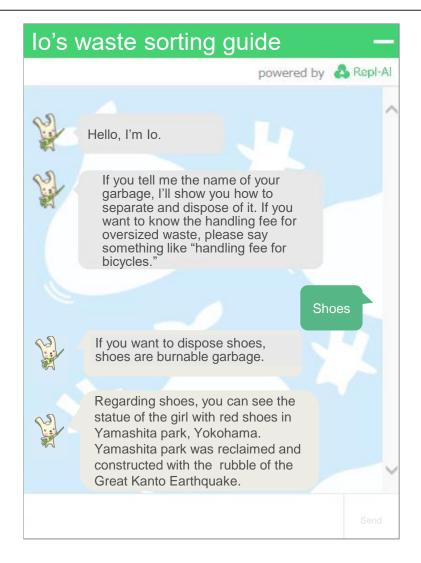
- 980,000 cases of use per year
- Users at night: 30%





~Raising Citizen Awareness~







Yokohama's Further Challenges ~Beyond the waste sorting~



Use reusable bags instead of plastic shopping bags





Reduce leftovers at cooperating restaurants





Dry chopped wood and cut grass

(Yokohama 3R Dream Plan) Citizens





Y-PORT Project

-Transferring Yokohama's Experiences -

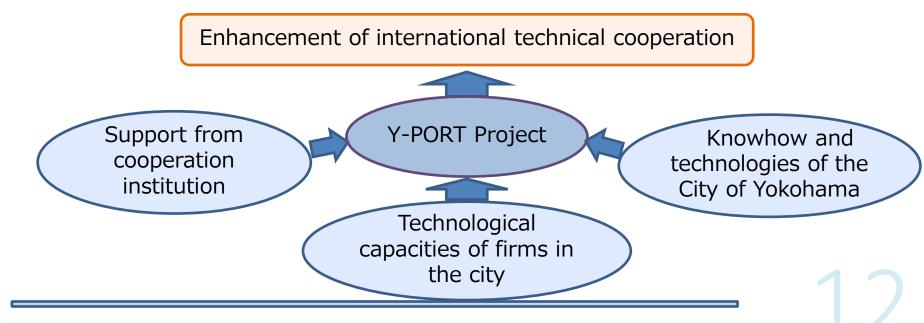


Yokohama's International Technical Cooperation (What is Y-PORT?)

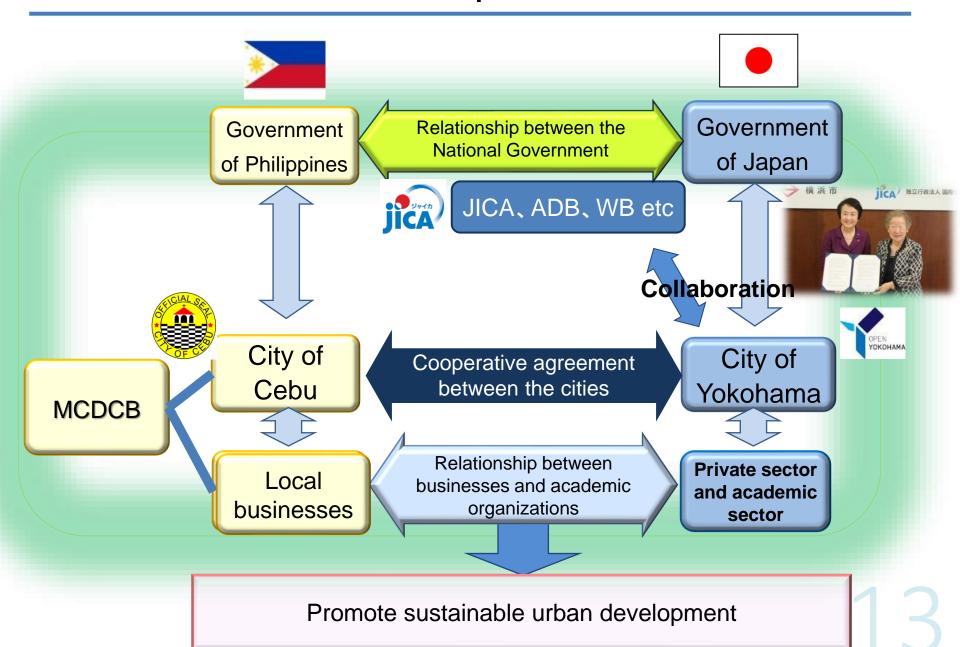
Yokohama Partnership of Resources and Technologies

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



Framework of Cooperation with Cities





Mega Cebu Roadmap 2050

https://www.youtube.com/watch?v=nyF6sAtMcZ8
https://www.youtube.com/channel/UCPsclvV7g8OWli8mBrVDcPA (MEGA Cebu)





The Roadmap Study for Sustainable Urban Development in Metro Cebu



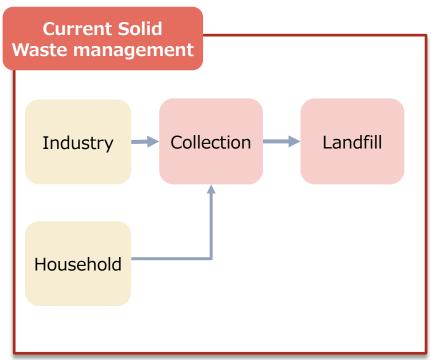
Development for Metro Cebu

A Prioritized Issue in Cebu (SWM)



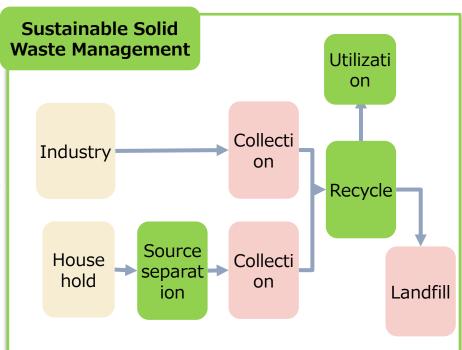
Solutions for Solid Waste Management in Metro Cebu

Benefits of the Transition to Sustainable Waste Management



Risks of Continuing the current the practice

- ✓ Exceeding the Landfill Capacity
- Accumulation of Environmental Impact
- Low utilization of resources
- ✓ Economical Loss
- Unlimited increase of waste volume from industry/household due to low incentive for waste minimization



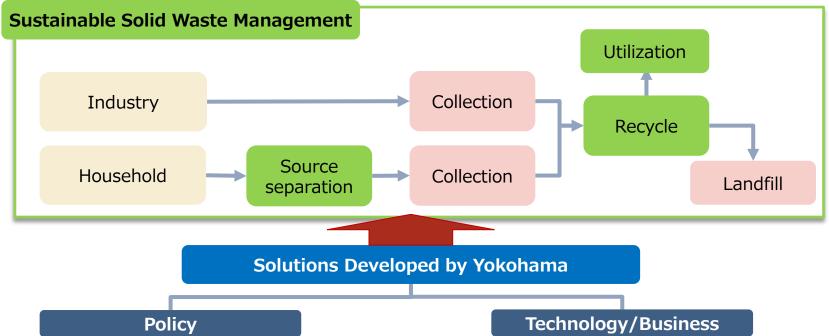
Benefits of Introduction of Sustainable Practice

- ✓ Waste minimization by source separation
- Utilization of resources and reduction of GHG emissions by recycling
- ✓ Job creation by recycling industry
- ✓ Minimization of Social Cost

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Solutions for Solid Waste Management in Metro Cebu

Solutions Developed by Yokohama to Support the Transition



- ✓ Clear Goal setting and planning for sustainable waste management (Yokohama city's experiences)
- ✓ Proper budget and staff organization
- ✓ Local community involvement for source separation

- ✓ <u>Plastic Recycling/ Fuel Production</u> <u>Technology</u> (on operation by Guun)
- ✓ Management system for efficient waste collection
- ✓ Waste to Energy Plant

Y-PORT Project in Solid waste Management

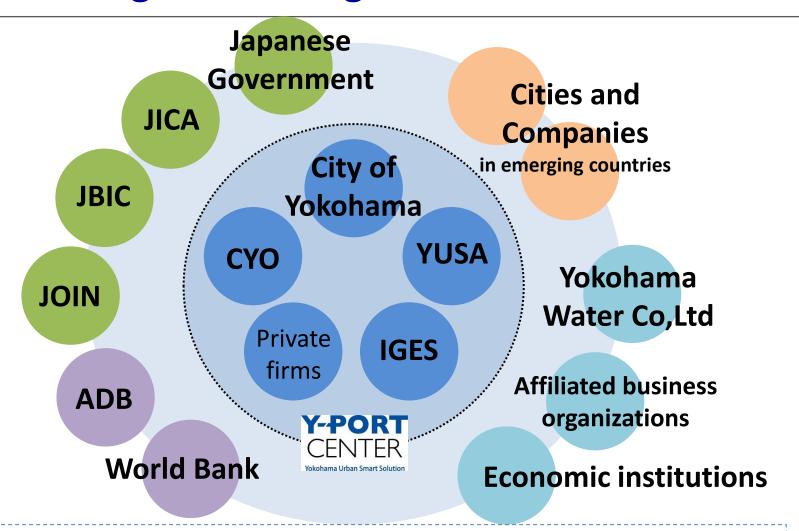


Guun's waste plastic recycling plant in Cebu

(Inaugurated in May 2017)



Establishing a knowledge hub 《Y-PORT Center》



- providing best available urban solutions through dialogue
- gaining support from the government of Japan and donor agencies



YUSA Member Companies













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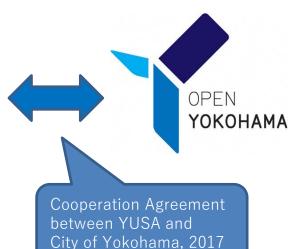


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City of Yokohama





Asia Smart City Conference organized by Yokohama

The 10th Asia Smart City Conference October 26-28, 2021



- Leaders of Asian cities
- International Organizations
- Japanese Government
- Private companies



•URL https://yport.city.yokohama.lg.jp







Y-PORT CENTER – Knowledge hub for smart city management

Yokohama Urban Smart Solution

Please visit our web site:

•https://yport.city.yokohama.lg.jp/

Development Cooperation Division, International Affairs Bureau

City of Yokohama, Japan

Email: <u>ki-yport@city.yokohama.jp</u>



