



TICAD 9 Thematic Event

“The Fukuoka Method” will save the Solid Waste Management Issues in the world!



# Fukuoka



Shiro Noguchi  
Director, Environmental Policy Section,  
Environmental Bureau, Fukuoka City

# 1. Introducing Fukuoka City

# 2. Fukuoka's Environmental Efforts

# 3. Waste Landfill Technique

# 1. Introducing Fukuoka City

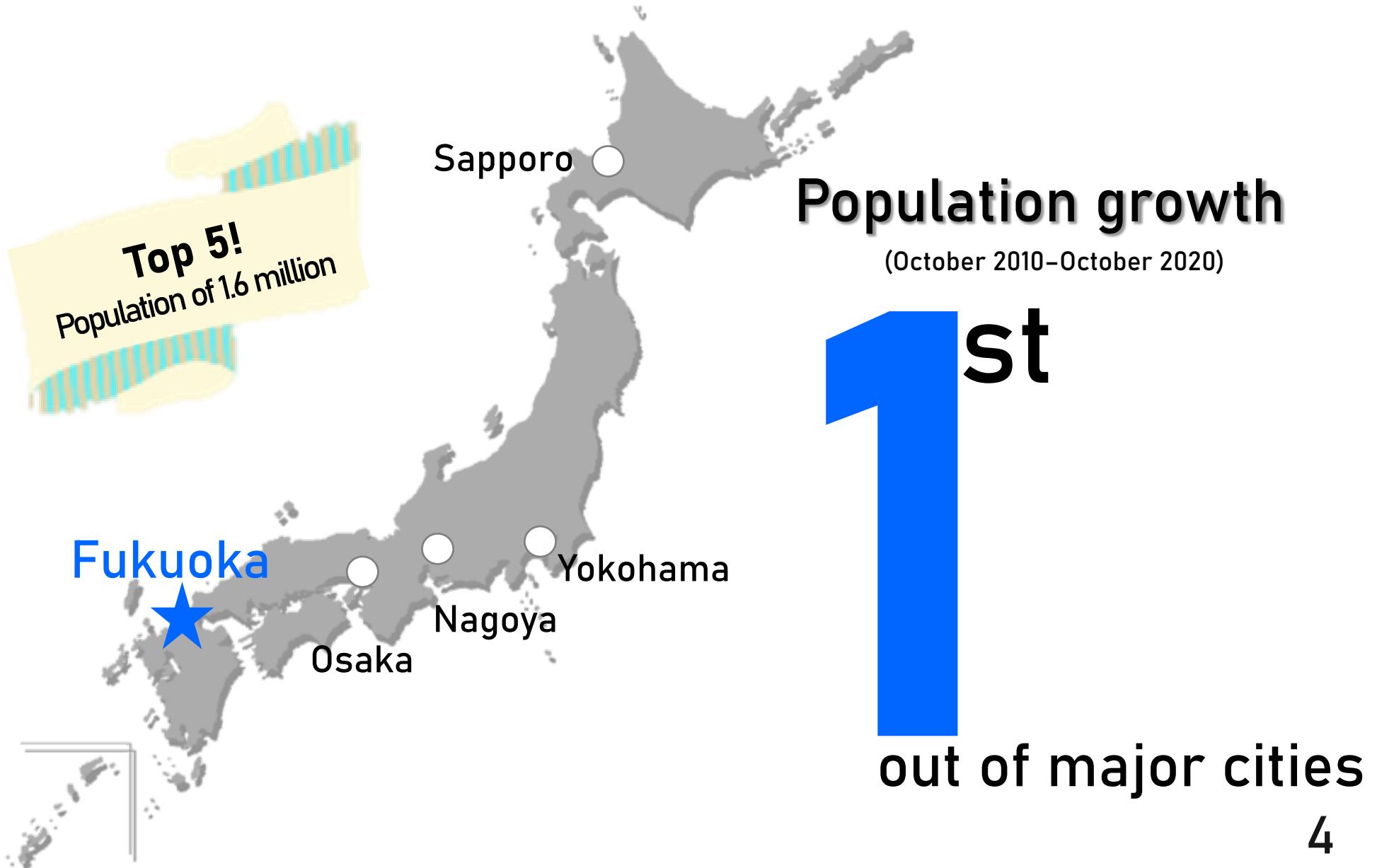
## 2. Fukuoka's Environmental Efforts

## 3. Waste Landfill Technique

# Japan's gateway to the Asian continent



# 5<sup>th</sup> biggest city in Japan



# Livable City ①

Port, airport, major train stations and main urban centers are all located within a 2.5 km radius



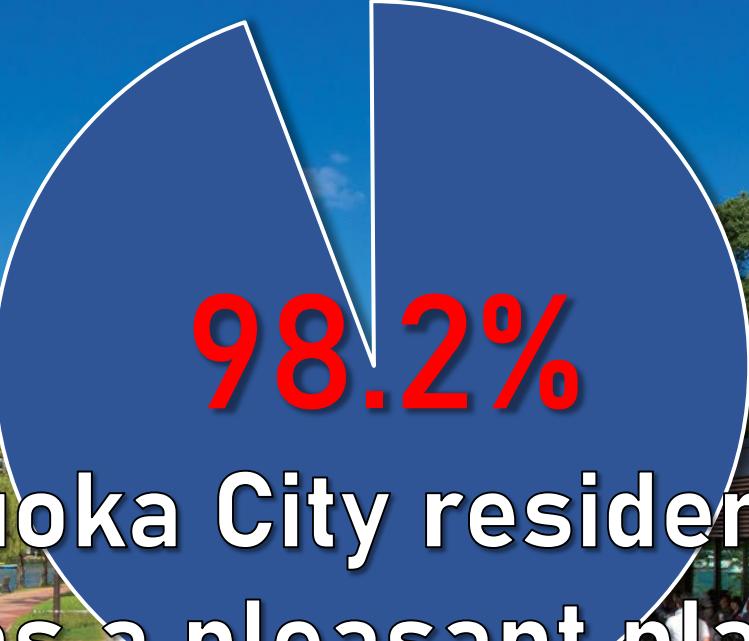
# Livable City ②



# Livable City ③



# Livable City ④



98.2%

of Fukuoka City residents view  
the city as a pleasant place to live

Community Attitude Survey on Municipal Government  
(2023)

# Strategic Urban Development



JAPAN, FUKUOKA  
Compact Principles for Improved Quality of Life

Fukuoka City is located on the northern shore of the island of Kyushu, in the southern part of Japan. With 1.5 million inhabitants, it is the sixth most populated city in Japan. Since Japan's accelerated economic development from the 1950s, managing controlled urbanisation has been a major focus for city planners and leaders. The risk of urban sprawl, a major concern due to the negative impact of rapid urban sprawl, was an important consideration in land use patterns and spatial distribution, with the need to efficiently and equitably deliver resources to current and future populations.

To ensure the sustainable development of the city, forward thinking leadership promoted compact planning principles in policies and plan from the 1960s. Primarily seen as a service plan and commercial centre, successive master plans concentrated Fukuoka's urban development around Hakata bay, creating a doorway to Asia while providing economic and recreation opportunities for citizens. The Basic City Framework in 1976 supported compact urbanisation by promoting transit oriented development.

Adequate densities has allowed for a comprehensive and diverse transport options, including trains, subways, bike paths and private transit options, strengthening the connectivity among core economic centres with the seaport, rail and airport hubs. Additionally, the Urban Landscape Ordinance was enacted in 1987, with an emphasis on preserving the armature of cityscapes, and reinforcing the historical and cultural character of the area for improved quality of life. High quality urban environments are also incentivised through Urban Beautification Award which promotes design quality.

Fukuoka has successfully developed as a major urban centre through compact urban planning principles, resulting in a productive, attractive and inclusive city that has been widely reported as Japan's most liveable city, an attribute which is commonly sought after in our increasingly urbanised world, and one which is intrinsically linked to features of compact development. The effort has resulted in a commute time less than half an hour for nearly 50% of the population, increasing productivity and quality of life. Furthermore, over 250,000 people ride to work each day due to proximity, a trend which began before environmental consciousness was widespread, as it is today. A testament to Fukuoka's inclusive and progressive urban development approach is the response of its citizens, with 90% of reporting that they were proud of their city.

**“Compact Principles for Improved Quality of Life”**  
The International Guidelines on Urban and Territorial Planning,  
UN-Habitat (2015)

# 1. Introducing Fukuoka City

## 2. Fukuoka's Environmental Efforts

### 3. Waste Landfill Technique

# Waste Disposal Flowchart

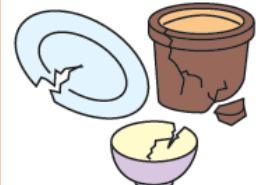
➤ Household garbage is separated into 7 categories.



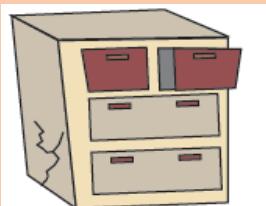
## <Citizens>



① Burnable Garbage



② Non-Burnable Garbage



③ Oversized Garbage



④ Glass bottles & PET bottles

## <Fukuoka City>

Heat and electricity

Incinerated

Burnable

1 Incinerated ash

1

Non-burnable

2

Iron

3

Aluminum

4

Reused

5

Usable items

Glass bottles

6

PET bottles

7

Landfill

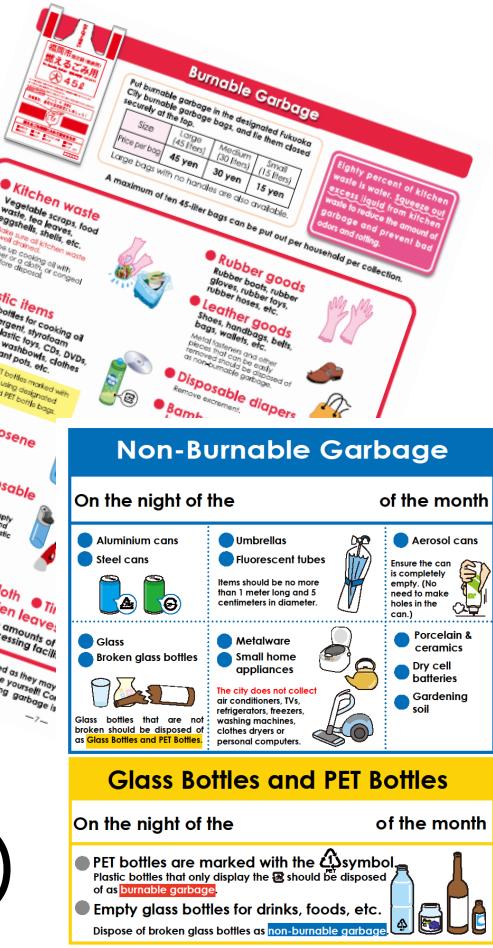
Recycled

# Raising Awareness of City Residents ①

## Brochures



(4 languages)



## Websites



(10 languages)

# Raising Awareness of City Residents ②



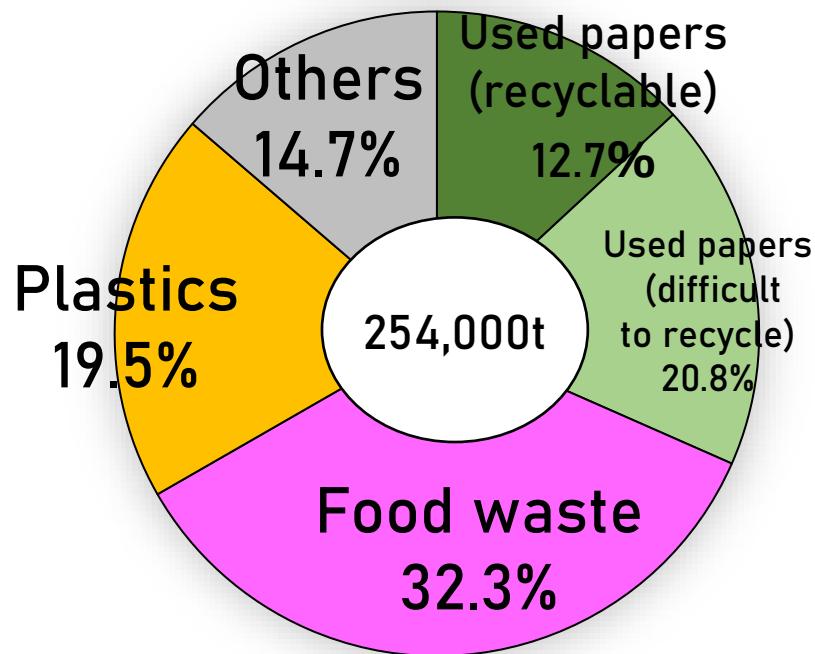
Environmental  
education

Lectures

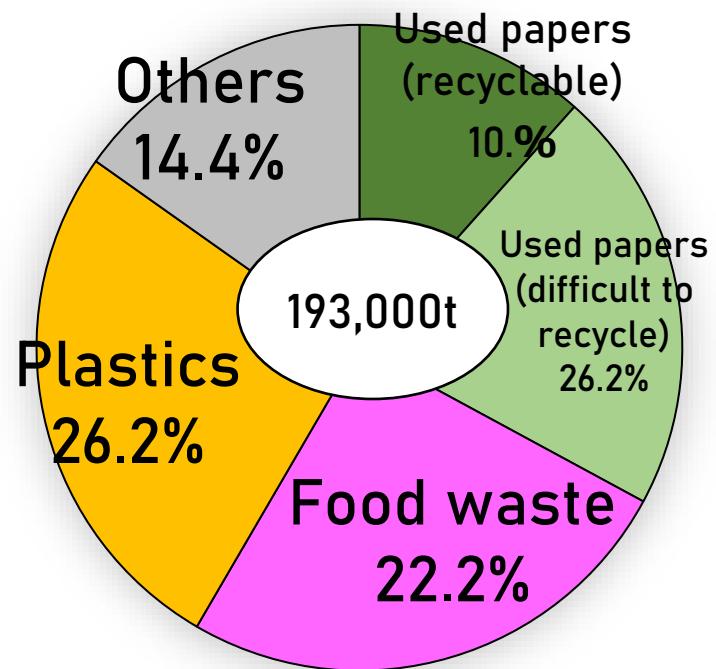


# Garbage composition

Household burnable garbage  
(FY2023)



Commercial burnable garbage  
(FY2023)



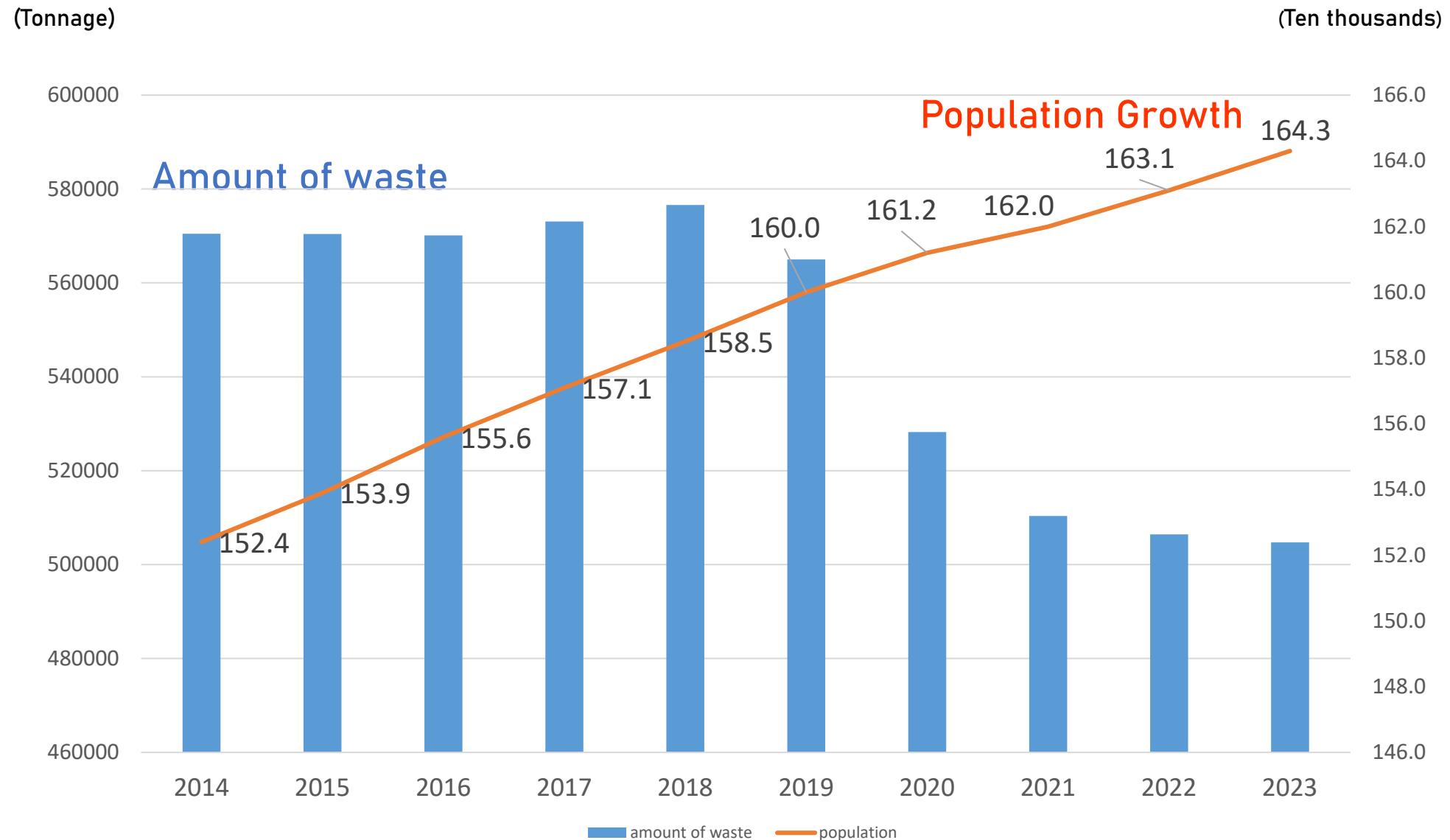
3 priority items

Used papers

Plastics

Food waste

# Successful Waste Reduction



# Four Incineration Plants



# Two Landfills

Nakata Landfill



Fushitani Landfill



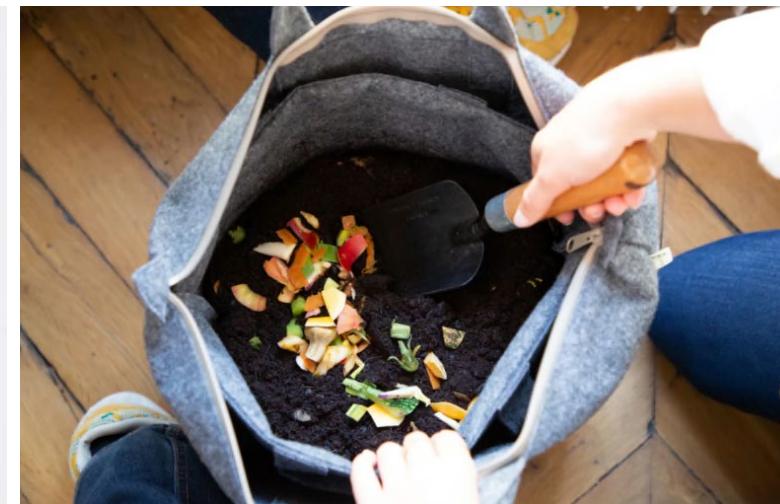
# Clean up the City

## Advantages of nighttime collection

- Improved collection work efficiency
- Crime prevention and disaster mitigation
- Reduction of damage by crows



# Promoting Food Waste Composting



11 SUSTAINABLE CITIES  
AND COMMUNITIES



12 RESPONSIBLE  
CONSUMPTION  
AND PRODUCTION



17 PARTNERSHIPS  
FOR THE GOALS

# 1. Introducing Fukuoka City

## 2. Fukuoka's Environmental Efforts

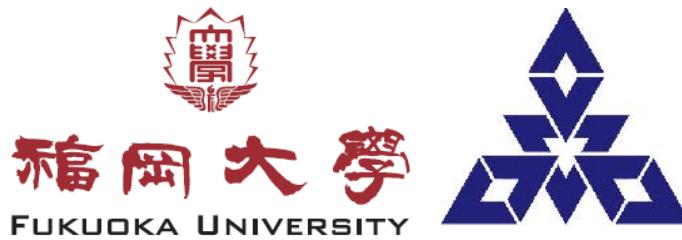
### 3. Waste Landfill Technique

An aerial photograph of a coastal landscape. In the center-left, there is a large, multi-tiered, pyramid-shaped structure built into a hillside, possibly a reservoir or dam. To its right is a smaller, rounded hill. The coastline curves to the right, with a pier extending into the blue sea. A road network is visible at the bottom, and a large white question mark is superimposed over the central hill area.

?

What is the *Fukuoka Method*?

# Public/Academia Partnership that began **50** years ago



Fukuoka University and Fukuoka City government collaborated to develop the Fukuoka Method to solve waste management problems and make international contributions.

# What Fukuoka City is doing?

# Fukuoka Method Global Network

Organizations promoting  
Fukuoka Method

Ministry of the  
Environment Japan

UN-Habitat

JICA



UN@HABITAT  
FOR A BETTER URBAN FUTURE



Ministry of the Environment  
Japan

Secretariat

Fukuoka City

Fukuoka Environment  
Foundation



公益財団法人ふくおか環境財団  
FUKUOKA ENVIRONMENT FOUNDATION

Technical Team



Fukuoka City



Fukuoka University



SWAN Fukuoka

Private companies

Sharing information

Training

Online consulting  
and utilizing databases

# FMGN Webinar

The 9th Tokyo International Conference on African Development (TICAD 9) Partner Project

## FMGN Webinar



### Fukuoka Method Spreading Around the World 1: Africa

The Fukuoka Method, a safe and sustainable landfill technology jointly developed by Fukuoka University and Fukuoka City, is now being introduced in 21 countries in Asia and around the world, helping to solve urban waste problems and promote decarbonization through improving landfill sites.

This year's FMGN Webinar, titled "Fukuoka Method Spreading Around the World," will present examples of how the Fukuoka Method has been introduced in Africa and Asia. We look forward to your participation.

#### 1. Date

**Thursday, October 3, 2024**

4:00 p.m. to 5:30 p.m. (Japan time)



#### 2. Venue

Zoom webinar with simultaneous interpretation  
(Japanese-English/French)

#### 3. Registration

Please access the registration page via the link below  
or using the 2D code on the right.

[https://intergroup.zoom.us/webinar/register/WN\\_tHC6ALTFQ-OXztN-Q4nsww](https://intergroup.zoom.us/webinar/register/WN_tHC6ALTFQ-OXztN-Q4nsww)



#### 4. Seminar

Speaker: Mr. Toshikazu Mito  
(SWAN-Fukuoka advisor & UN-Habitat senior advisor)

Topic: Fukuoka Method applications in Africa: case studies

The session will illustrate how the Fukuoka Method has recently been introduced in African cities, and analyze challenges and opportunities for further applications.

The second part of this seminar is scheduled for around January 2025. The topic will be examples of how the Fukuoka Method is being used in Vietnam.

### FMGN Fukuoka Method Global Network

With cooperation from the Ministry of the Environment, UN-Habitat, JICA, Fukuoka University, Fukuoka City, and others

## FMGN Webinar



### Fukuoka Method Spreading Around the World 2: Asia, Vietnam

The Fukuoka Method, a safe and sustainable landfill technology jointly developed by Fukuoka University and Fukuoka City, is now being introduced in 21 countries in Asia and around the world, helping to solve urban waste problems and promote decarbonization through improving landfill sites.

This year's FMGN Webinar, titled "Fukuoka Method Spreading Around the World," will present examples of how the Fukuoka Method has been introduced in Africa and Asia. We look forward to your participation.

#### 1. Date

**Monday, February 10, 2025**

4:00 p.m. to 5:30 p.m. (Japan time)



#### 2. Venue

Zoom webinar with simultaneous interpretation  
(Japanese-English/French)

#### 3. Registration

Please access the registration page via the link below  
or using the 2D code on the right.

[https://intergroup.zoom.us/webinar/register/WN\\_fLq9Pd1Oo1p9Wv1PhoZBQ](https://intergroup.zoom.us/webinar/register/WN_fLq9Pd1Oo1p9Wv1PhoZBQ)



**Gas venting system image**

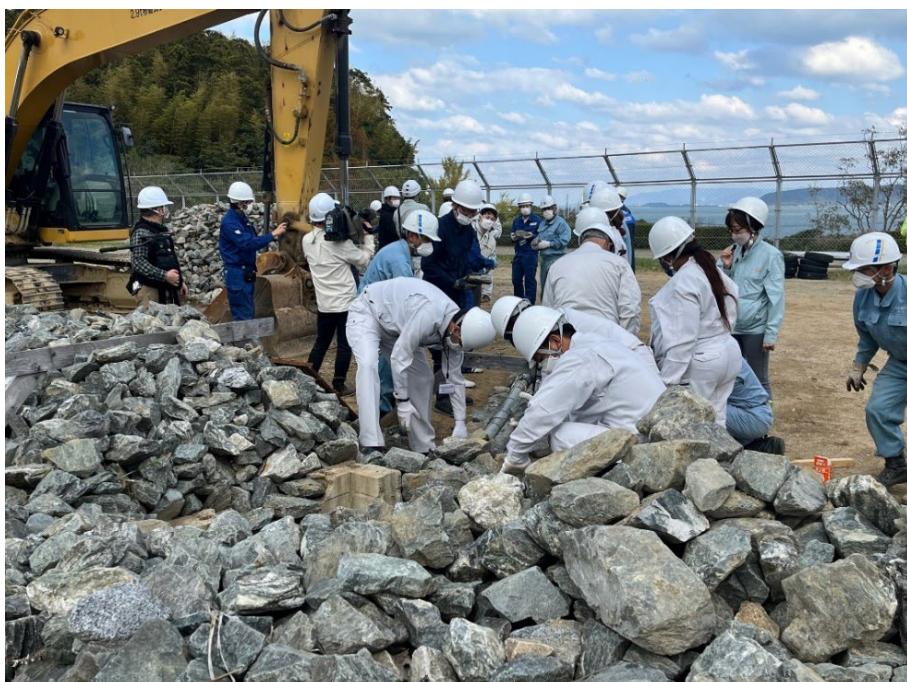
The diagram illustrates the components of a gas venting system, including 'Ground tubes' (埋設管), 'Drain holes' (排水孔), 'Base stones' (基礎石), and a 'Connect' section showing a timber frame and soil layers. Below the diagram is a photograph of workers at a construction site, identified as Hawassa, Ethiopia (Mar. 2023). A small inset image shows a person in a blue shirt and glasses, likely the speaker. The text '(Source: SWAN-Fukuoka)' is also present.

Image of gas venting system construction  
(Hawassa, Ethiopia (Mar. 2023))

mented in  
of a model  
pects of the  
countries.

**Network**  
-Habitat, JICA,  
city, and others

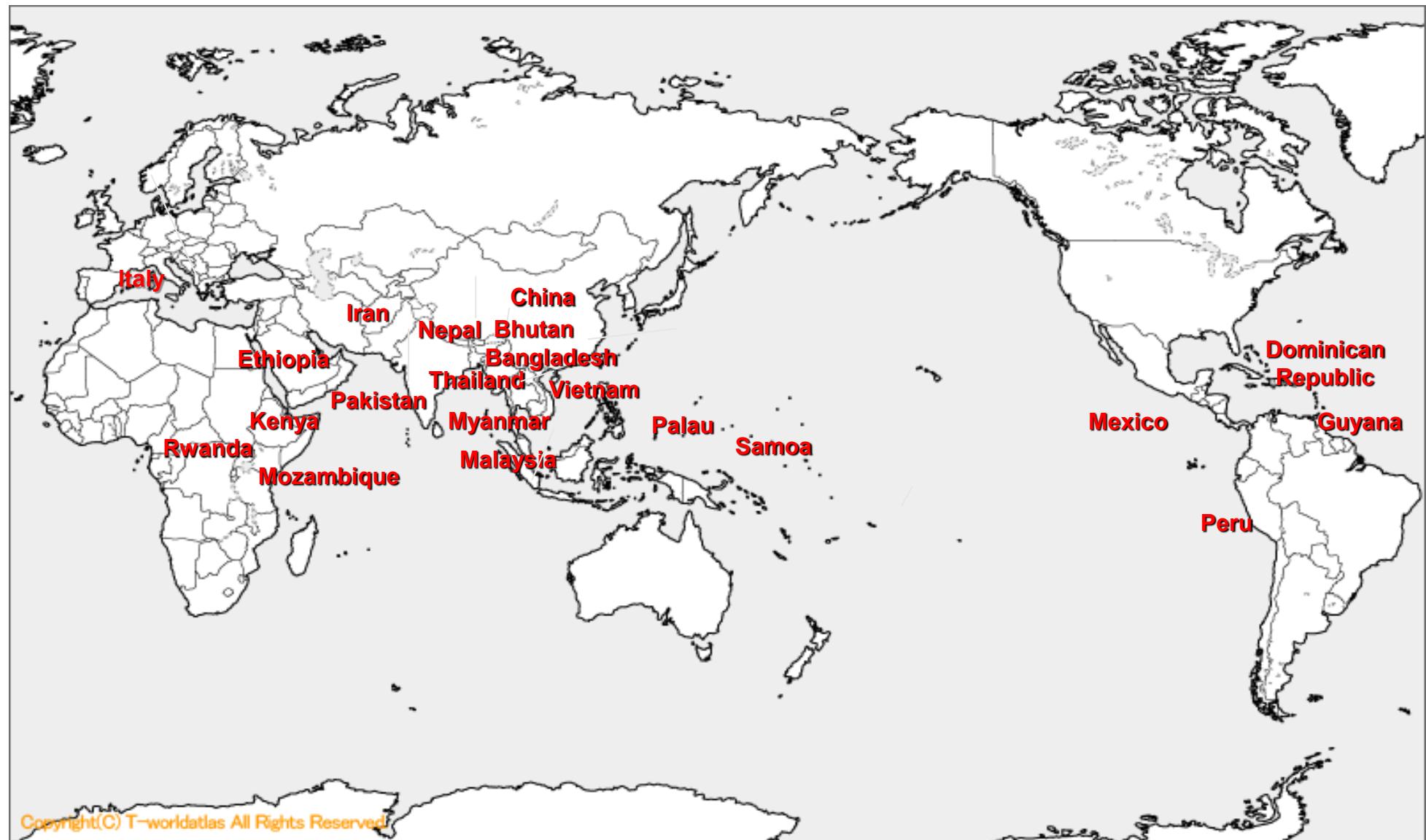
# JICA・FMGN Training for engineers



Technical transfer mainly driven  
by onsite training

2025. 5.14- 5.30

# Introducing the Fukuoka Method worldwide



# Introducing the Fukuoka Method worldwide②



# PR Activities



COP<sup>28</sup>  
UAE



4-8 November 2024, Cairo, Egypt

WORLD  
URBAN  
FORUM



We are exhibiting at a booth!  
(B-68)

20-22 August 2025, Yokohama, Japan

A wide-angle photograph of the Fukuoka skyline under a bright blue sky with scattered white clouds. In the foreground, the large, dark, hemispherical dome of the Fukuoka Dome is visible. To its right is a tall, modern skyscraper with a glass facade. Further to the right stands the Fukuoka Tower, a distinctive skyscraper with a unique, angular, sail-like shape and a spire. The city's other buildings are visible in the background across a body of water.

Thank you for your attention.

Email:  
[fmgn2022@city.fukuoka.lg.jp](mailto:fmgn2022@city.fukuoka.lg.jp)