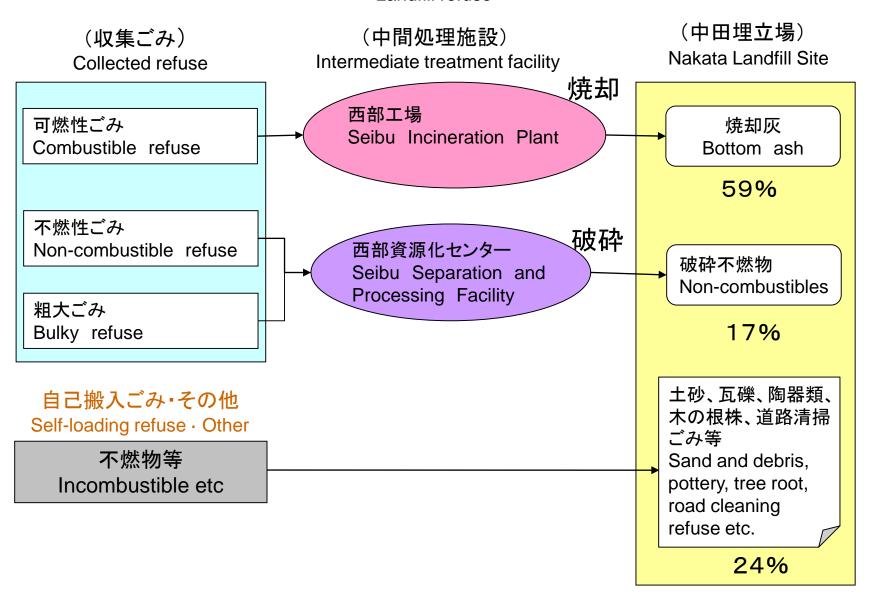
#### 埋立ごみ

Landfill refuse



# The Fukuoka Method



## Development of the Fukuoka Method (Semi-Aerobic Landfill Structure)





Fukuoka City's landfill around 1970 (Hatta Landfill )

Until the 1960~70s, Japan, like many other Asian countries today, used anaerobic landfills

Lead to environmental problems such as toxic leachate and foul odor

The start of experiments to improve landfills, aiming to purify leachate

## **Experiments by Fukuoka City and Fukuoka University**

A Test Plant was constructed at Hisayama Landfill in 1973



#### **Example of the construction of Fukuoka Method Landfill: Fukuoka**

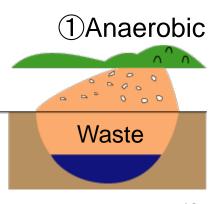




#### **Shinkamata Landfill, Fukuoka City**

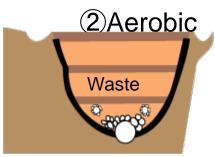
The first landfill in Japan which used the semi-aerobic landfill method (1975)

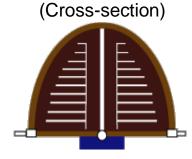
## There are primarily 3 landfill methods





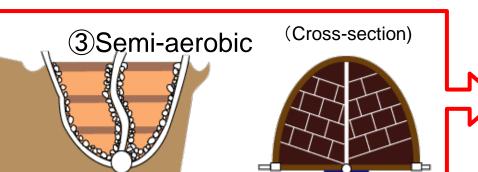
- High emissions of harmful substances such as CO2, methane, etc
- Waste is moistened in anaerobic condition







- Relatively less emission of harmful substances such as CO2, methane, etc
- · Easy treatment of leachate
- High cost of construction and maintenance





- Relatively less emission of harmful substances such as CO2, methane, etc
- Easy treatment of leachate
- Low construction and maintenance costs

#### Advantages of the Fukuoka Method

#### The Fukuoka Method:

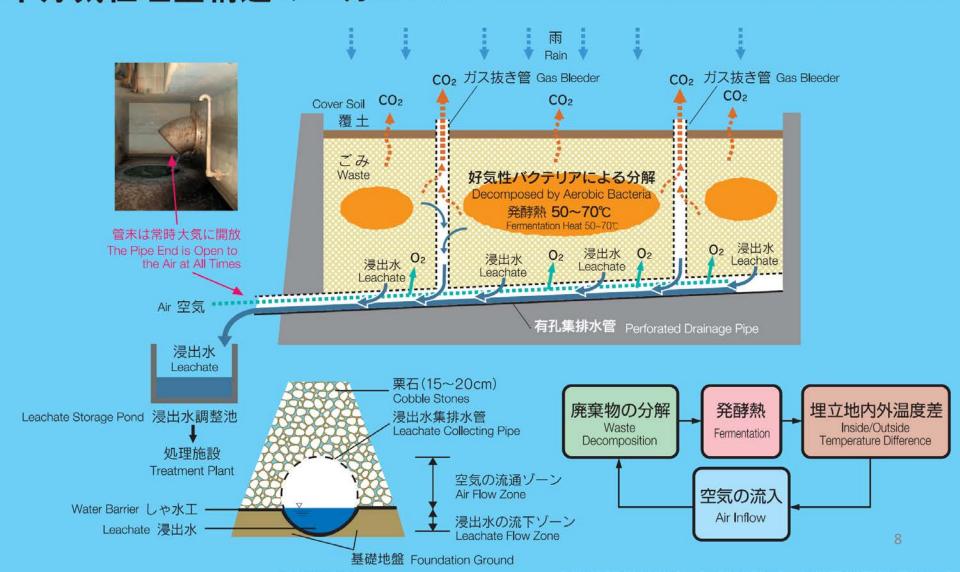
An efficient landfill method (=Semi-aerobic landfill structure) with low environmental impact, developed jointly by Fukuoka City and Fukuoka University

## **Key aspects**

- 1 Advanced technology is not necessary
- 2 Low cost
- 3 Environmentally friendly

## 福岡方式 "The Fukuoka Method"

#### 準好気性埋立構造のメカニズム Mechanism of the Semi-Aerobic Landfill Structure



## Technical exchanges

Sent 129 engineers to 14 countries
Received 162 engineers from 24 countries



Overseas cases: Myanmar

## Improvement of Htein Bin Landfill by the Fukuoka Method









#### 跡地利用(今津埋立場) Re-use of Completed Landfill Site (Imazu Landfill Site)

