

# The Fukuoka Method Waste Landfill Technique

SUSTAINABLE DEVELOPMENT  GOALS



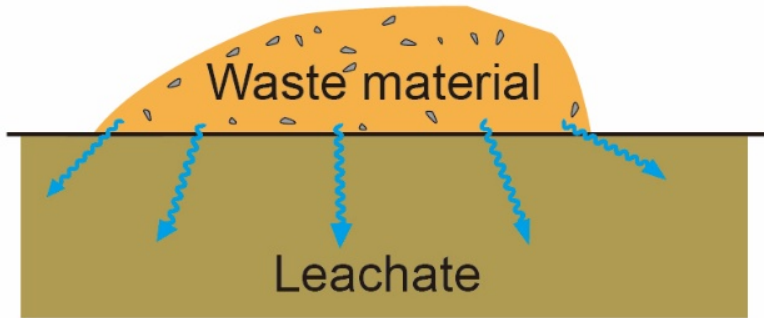
Shiko SONODA  
Chief, Facility Section,  
Environmental Bureau, Fukuoka City

An aerial photograph of a coastal development project. The image shows a large area of land with terraced slopes, some of which are covered with solar panels. A long pier extends into the blue sea from the top left. The land is surrounded by dense green forest. A road and some industrial or construction equipment are visible in the lower part of the image. The text "What is the *Fukuoka Method*?" is overlaid in white.

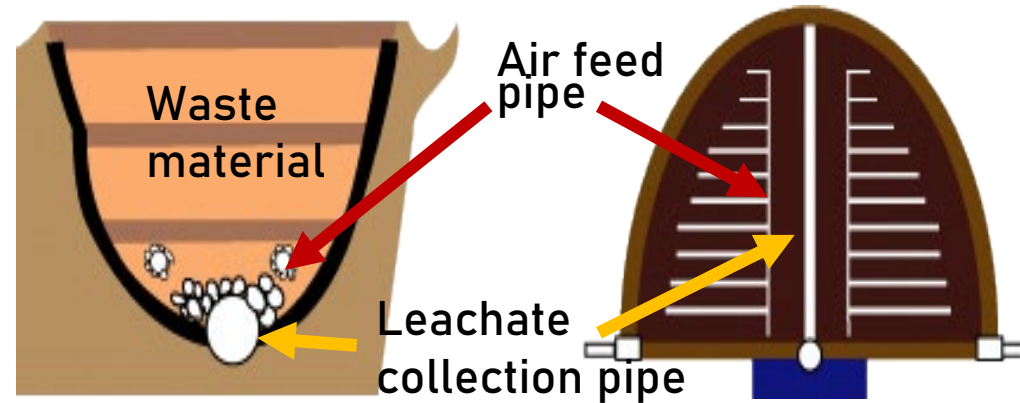
What is the *Fukuoka Method*?

# Main types of landfill

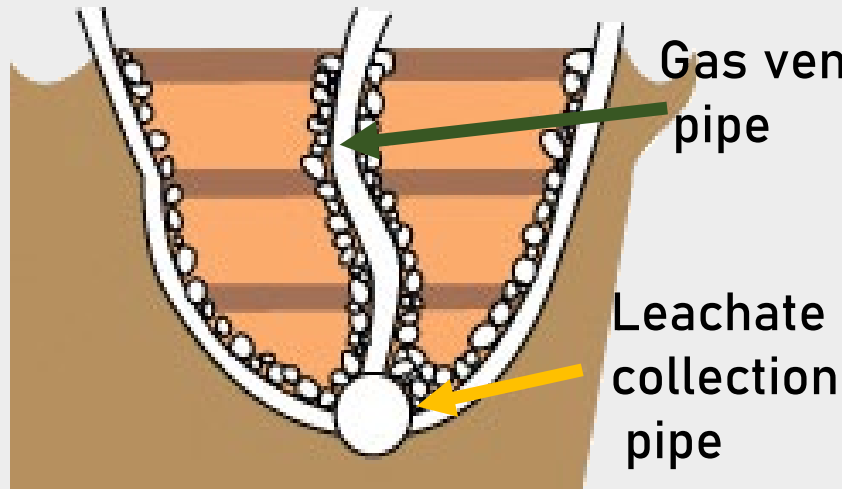
## ① Anaerobic landfill



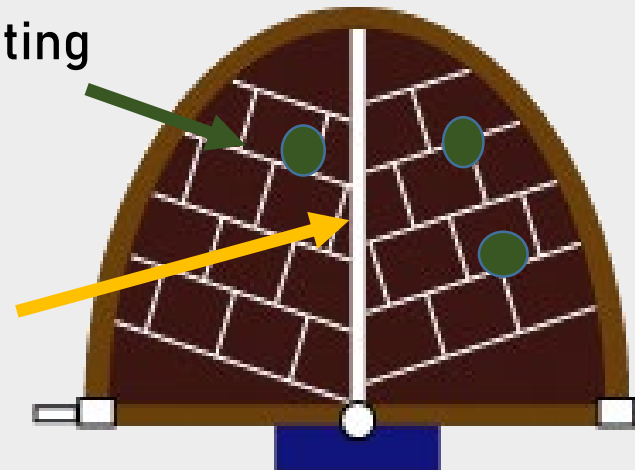
## ② Aerobic landfill



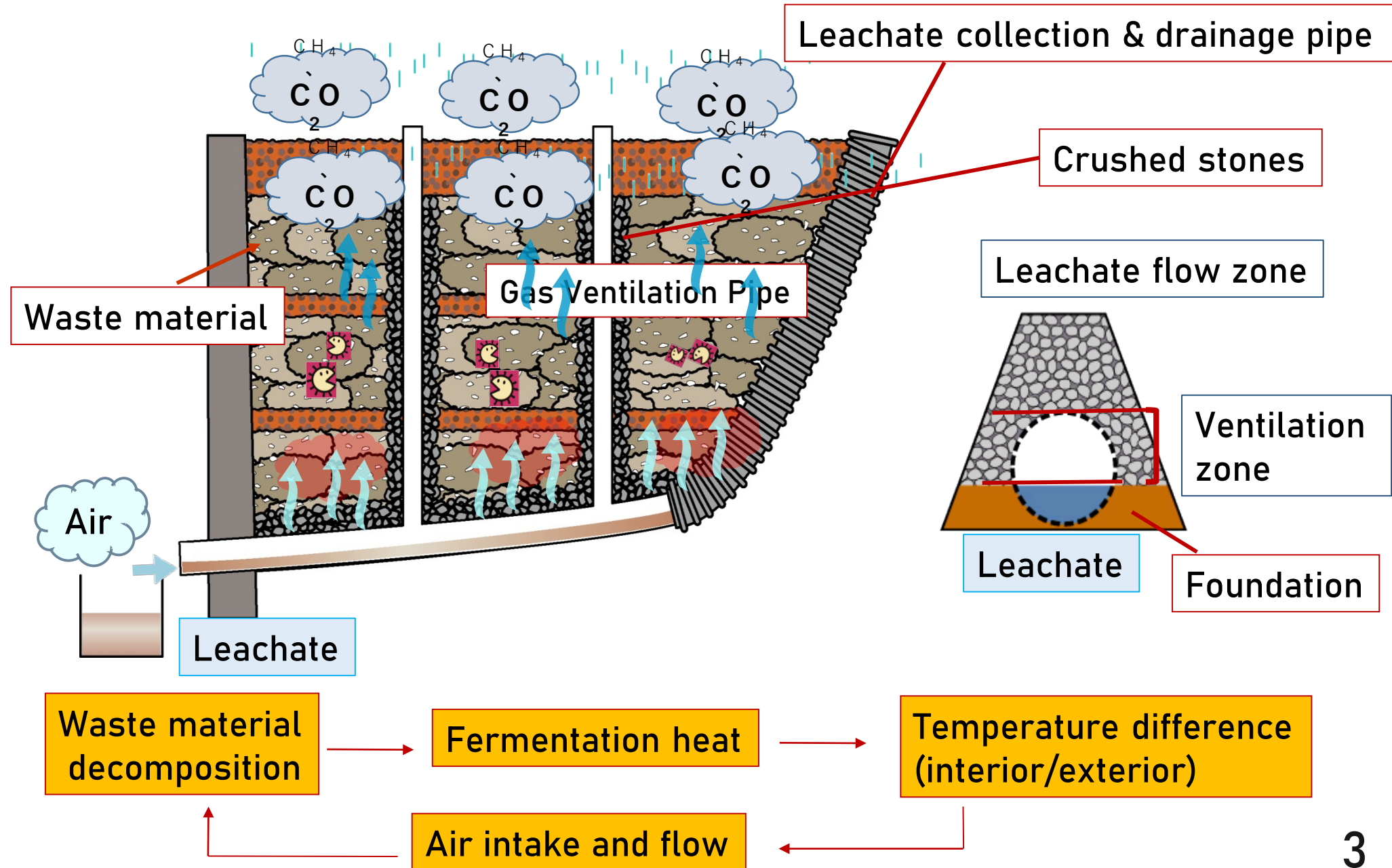
## ③ Semi-aerobic landfill



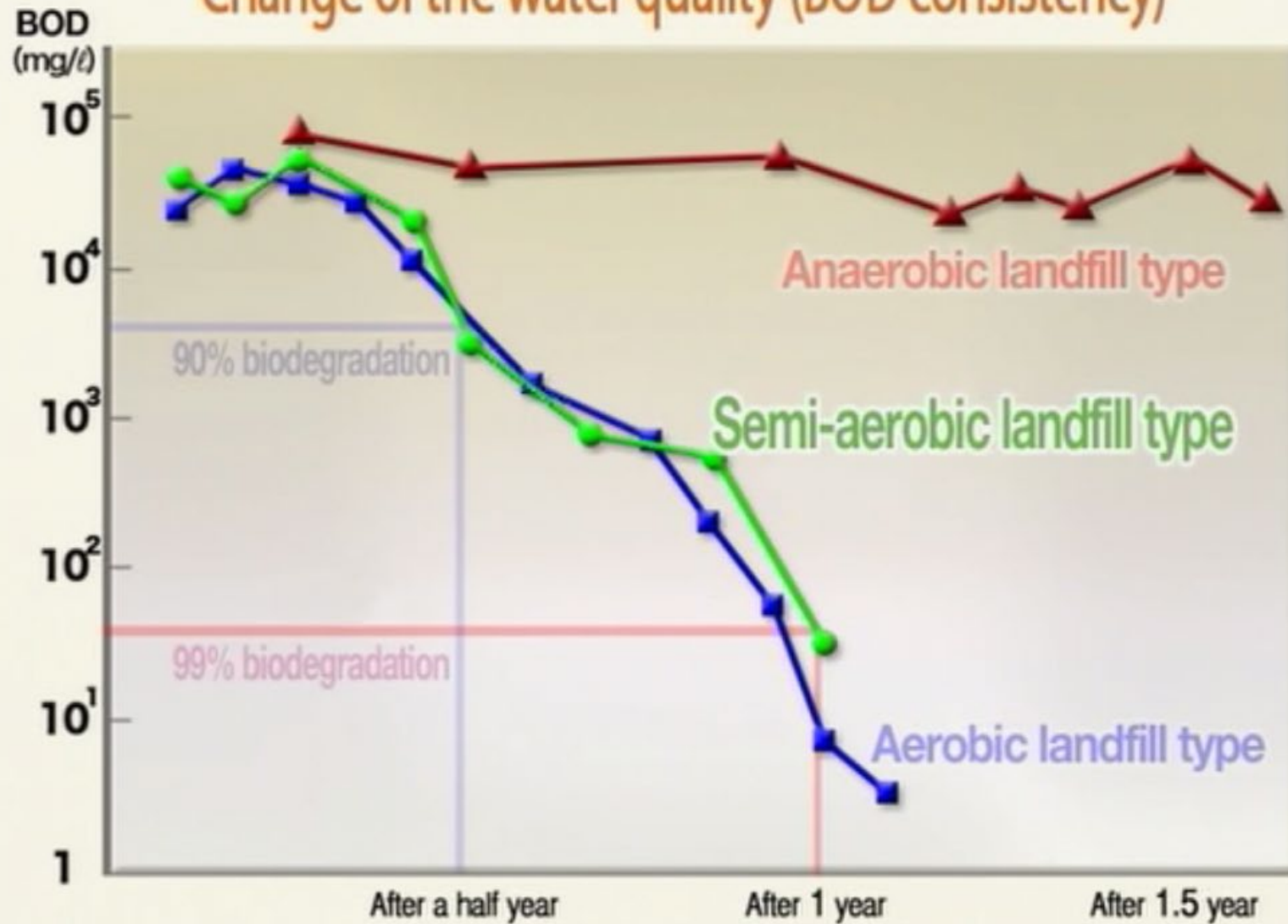
## Fukuoka Method



# Structure and function of semi-aerobic landfill type



## Change of the water quality (BOD consistency)



# Advantage of the Fukuoka Method

## ① Improving environment



Landfill site in 1975



After the site was  
safely closed in 1999

# Advantage of the Fukuoka Method

## ② Safe closure & subsequent use of the landfill site



Imazu Sports Park



nursing home for the elderly



Imazu Citizen's Farm

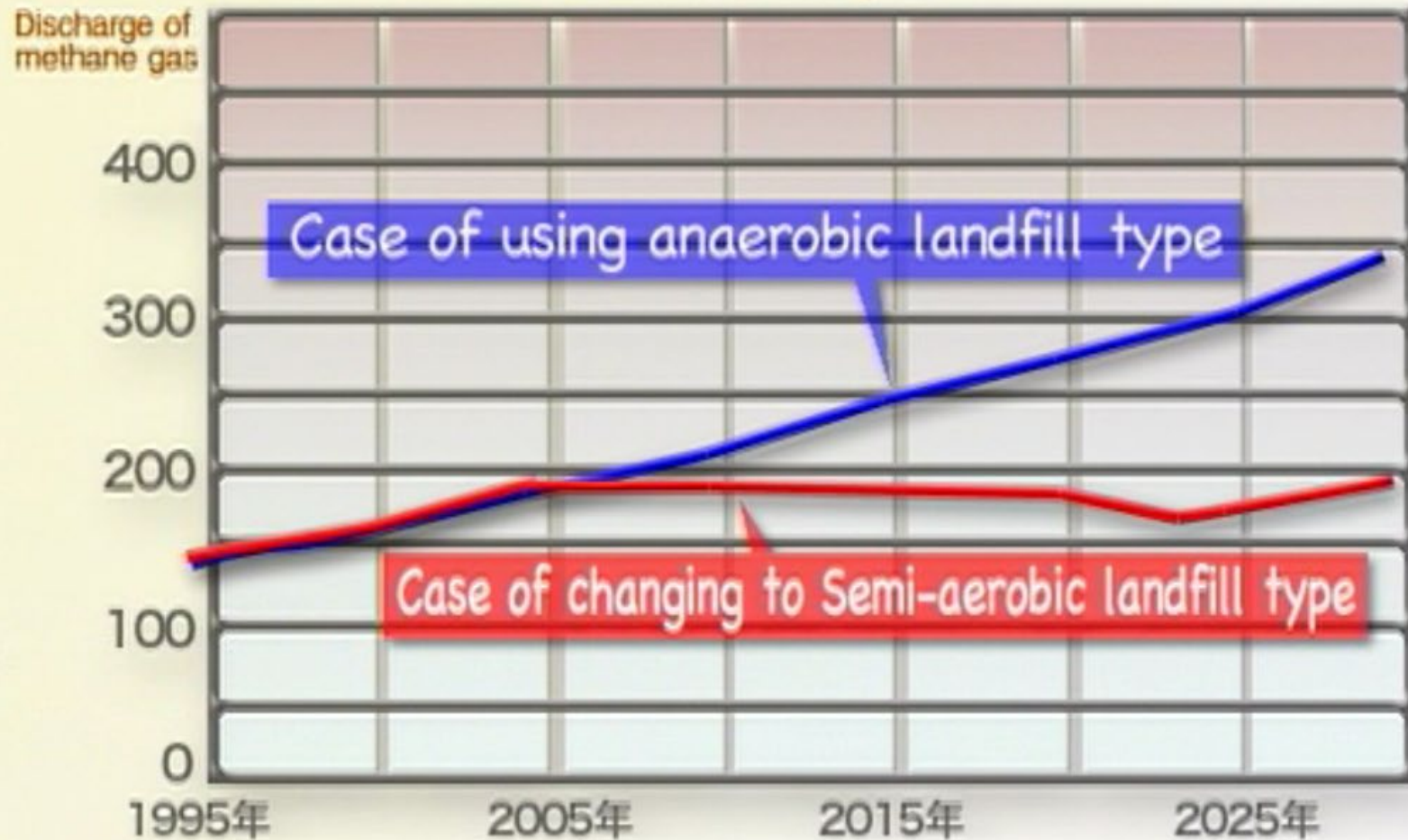


Imazu special education school

# Advantage of the Fukuoka Method

③  $\text{CO}_2$  is reduced by  
about 20-50 %

## The effect of methane gas reduction from reclaimed ground (Data on Malaysia)



Case of changing to Semi-aerobic landfill type from 2000 to 2020

Typical open dumping,  
burning in Malaysia



【Reference】  
A ROAD TO SEMI-AEROBIC LANDFILL  
TYPE BY FUKUOKA METHOD Vol.0 by  
NPO SWAN FUKUOKA

【Photo courtesy・Cooperation】  
NPO SWAN-FUKUOKA  
UN-Habitat



UN HABITAT  
FOR A BETTER URBAN FUTURE

8 years on



12 years on





Thank you!

Seibu(Nakata) Landfill in Fukuoka City