

# **Spread of Sewer Connectable Portable Toilets and public relations of how to use them**

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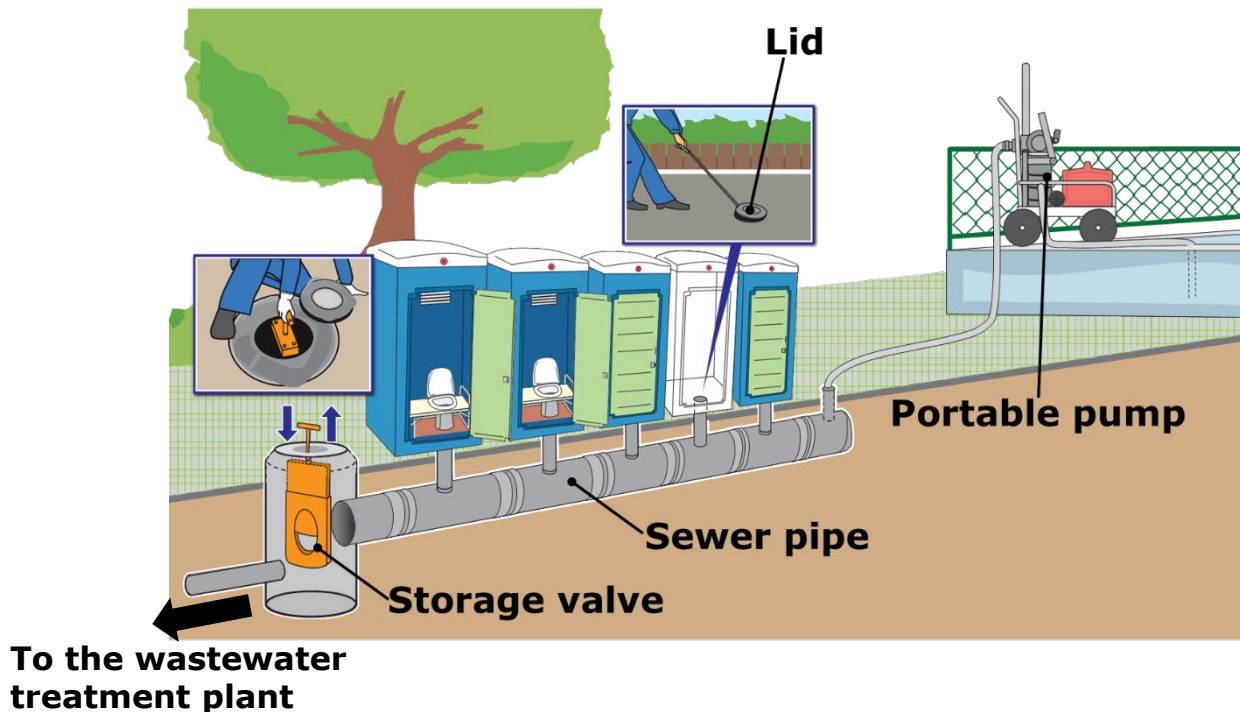
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# 1. Introduction

*What are Hamakko Toilets?*

Sewer connectable portable toilets  
in the city of Yokohama



Hamakko Toilets

means “Yokohama kid”

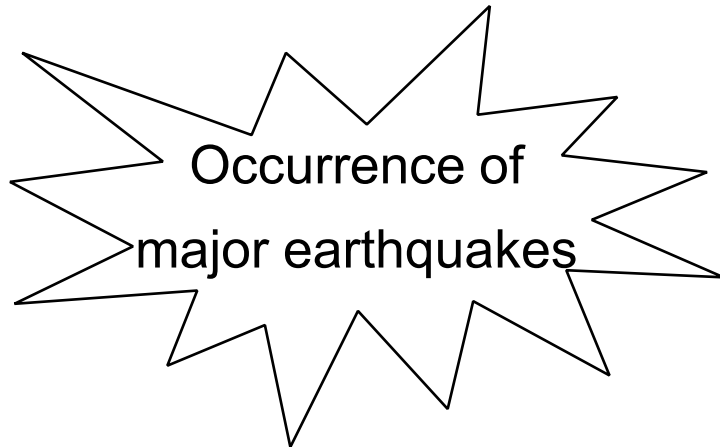
*Where Hamakko Toilets have  
been installed?*

At **Local disaster control bases**  
(mainly elementary and middle schools)  
└ Place where residents evacuate  
in a disaster

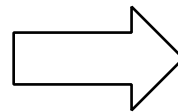
# 1. Introduction

## Circumstances involving toilets in disasters and the necessity of Hamakko Toilets

Japan



Damages of sewerage pipes



Occurrence of public health issues such as nonfunctional toilets



Toilet at the time of disaster

# 1. Introduction

## Circumstances involving toilets in disasters and the necessity of Hamakko Toilets

Hamakko Toilets solve the problem!



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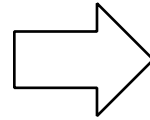
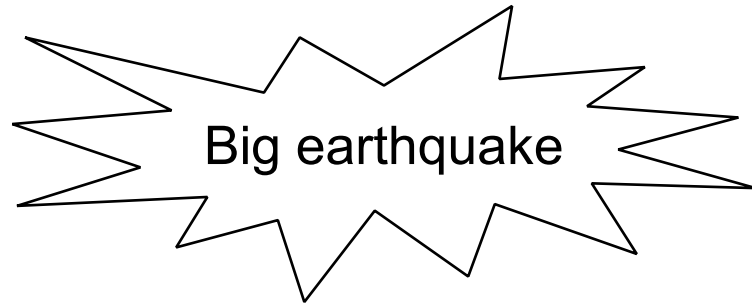
Increase residents disaster awareness by PR activities!



## 2. Installation of Hamakko Toilets

### Why Hamakko Toilets are necessary?

Conventional portable toilets (by vacuum trucks)



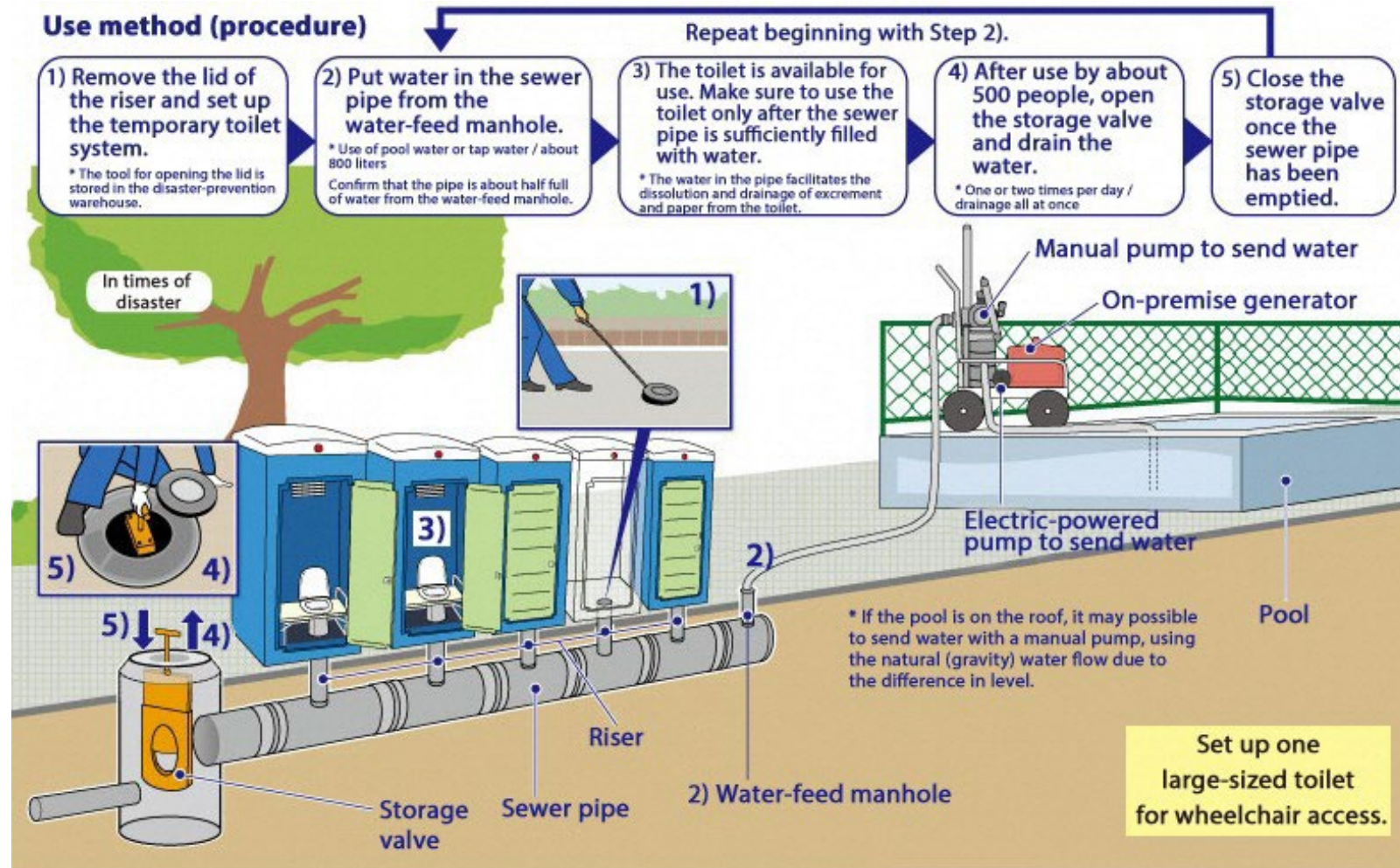
Vacuum trucks become unable to reach shelters

Serious issue that impacts physical and mental health of evacuees!

Promotion of installation of Hamakko toilets!

# 2. Installation of Hamakko Toilets

## Structure and use method



## 2. Installation of Hamakko Toilets

### Structure and use method



### — Specification —

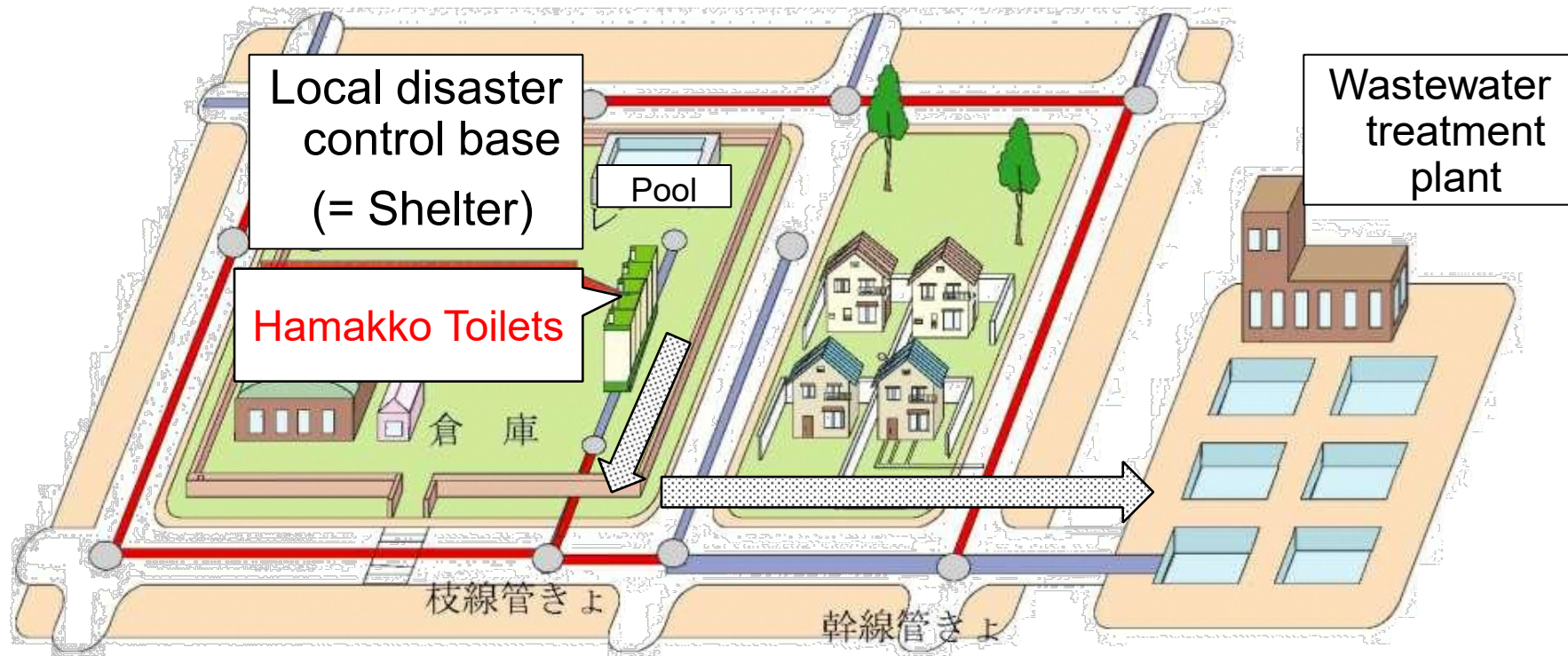
Tool-free      Light-blocking  
Lockable      Tip-resistant

### — Characteristics —

- Barrier-free design
- Hygienic

## 2. Installation of Hamakko Toilets

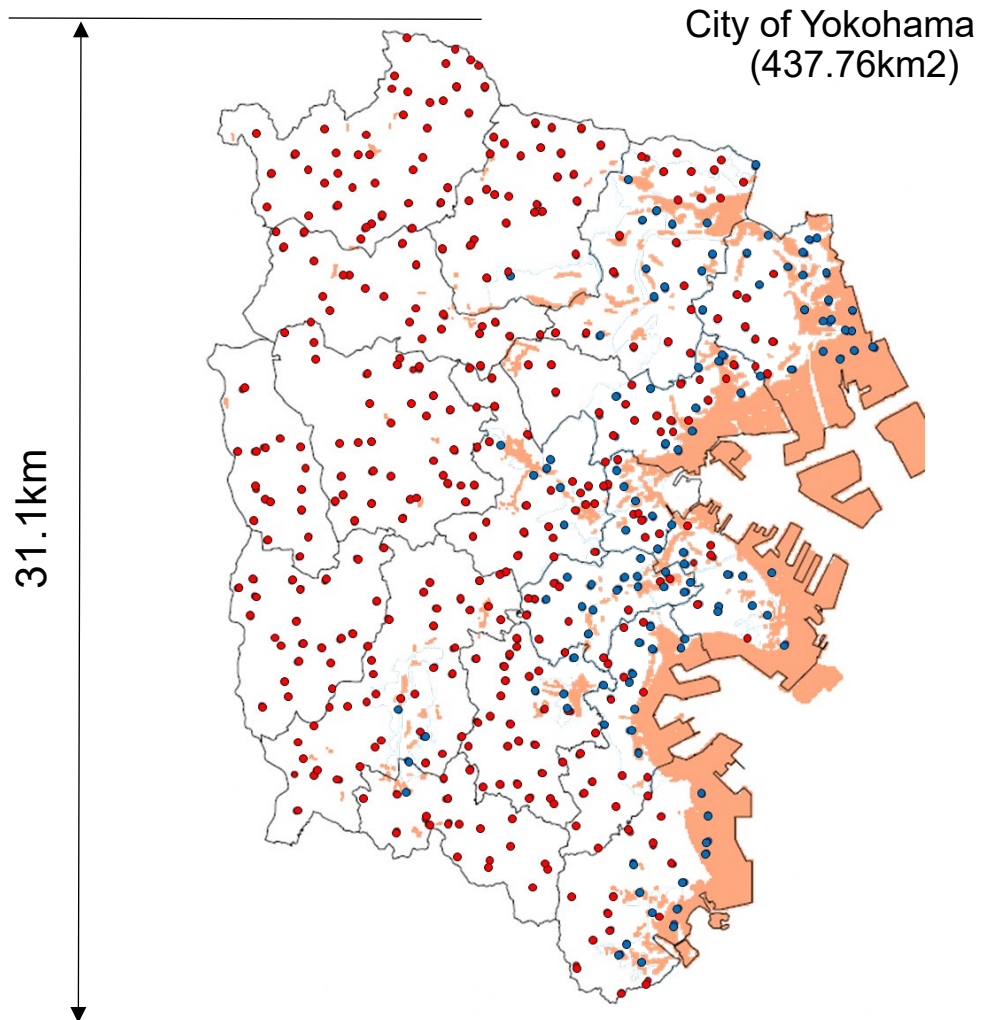
### Structure and use method



- Hamakko Toilets are installed in the premises of the local disaster control bases.
- We are strengthening earthquake-resistance of sewerage pipes running from Hamakko Toilets to the water treatment plant.

## 2. Installation of Hamakko Toilets

The goal of making preparations



■ : Areas where liquefaction damage is expected

●● : Local disaster control bases (= shelters)

● : Local disaster control bases in areas where liquefaction damage is expected

Making preparations, giving priority to local disaster control bases in areas where liquefaction damage is expected.

## 2. Installation of Hamakko Toilets

The goal of making preparations \* as of February 2022

### Status of Hamakko Toilets preparations

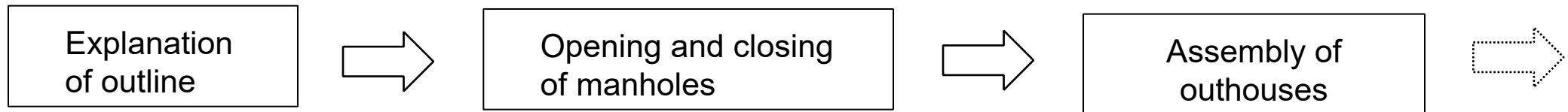
	Total	Number installed (R3)	Installation rate (%)
Local disaster control base	460	365	79.5
Emergency recovery activity site	19	12	63.1
Hospitals designated as disaster medical centers	4	4	100
Total	483	381	78.8

The city aims to complete preparations at all bases by the end of March 2024!

# 3. Case examples of PR Activities

Various examples of PR methods —Disaster training—

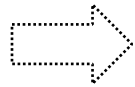
Flow of disaster training



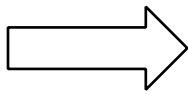
# 3. Case examples of PR Activities

Various examples of PR methods —Disaster training—

Flow of Disaster training



Handling of pumps / hoses



Handling of storage valves



### 3. Case examples of PR Activities

Various examples of PR methods —Videos for explanation—

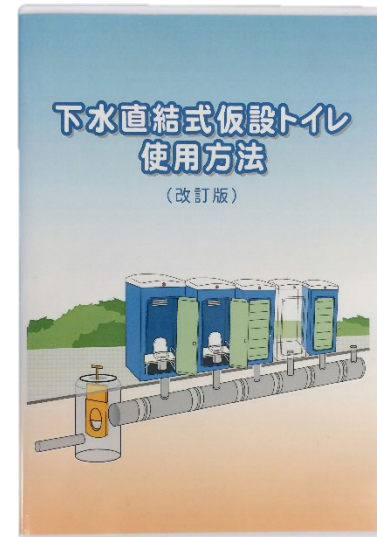
Contents of videos: How to use Hamakko Toilets, how to use water pumps

YouTube



You can check use methods  
anytime, anywhere!

DVD



For preparation and review of  
disaster training!

### 3. Case examples of PR Activities

Various examples of PR methods —Display of a mock-up—



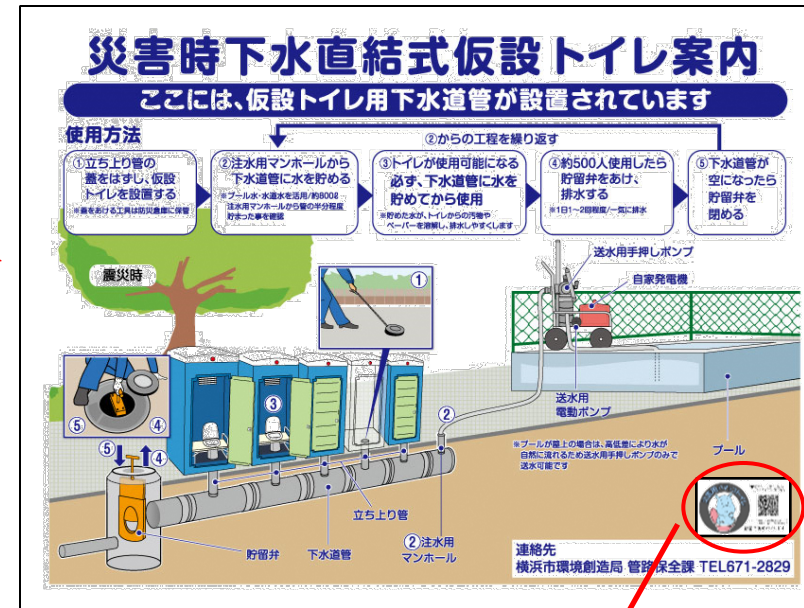
Residents can check a series of the flow through the replay of the internal structure.



Residents can easily understand!

# 3. Case examples of PR Activities

Various examples of PR methods – Installation of signs –



How to use Hamakko Toilets can be checked on the site!

You can check the video of the use method using a QR code!



# 4. At the end

## Conclusion

80% of Hamakko Toilet preparations were completed !

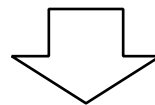


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PR activities for Hamakko Toilets



Improvement of disaster prevention awareness in each resident



Improvement of Yokohama's disaster preparedness!

*Thank you for your attention!*