



スリランカ・分別回収
photo: JICA/Yusuke Abe



ネパール・フェワ湖



メキシコ・大気汚染

JCCI

~JICA Clean City Initiative~

To benefit **500 million** citizens in **50** countries by **2030**

JICA addresses waste, water and air pollution, and other environmental problems that cause health problems to create clean cities.



SUSTAINABLE
DEVELOPMENT
GOALS



Japan International Cooperation Agency (JICA) supports Sustainable Development Goals (SDGs).

Cover Photo — Waste segregation in Kataragama, Sri Lanka.
Sorting out fruit and other food waste that can be turned into compost quickly.
Photo: Yusuke Abe

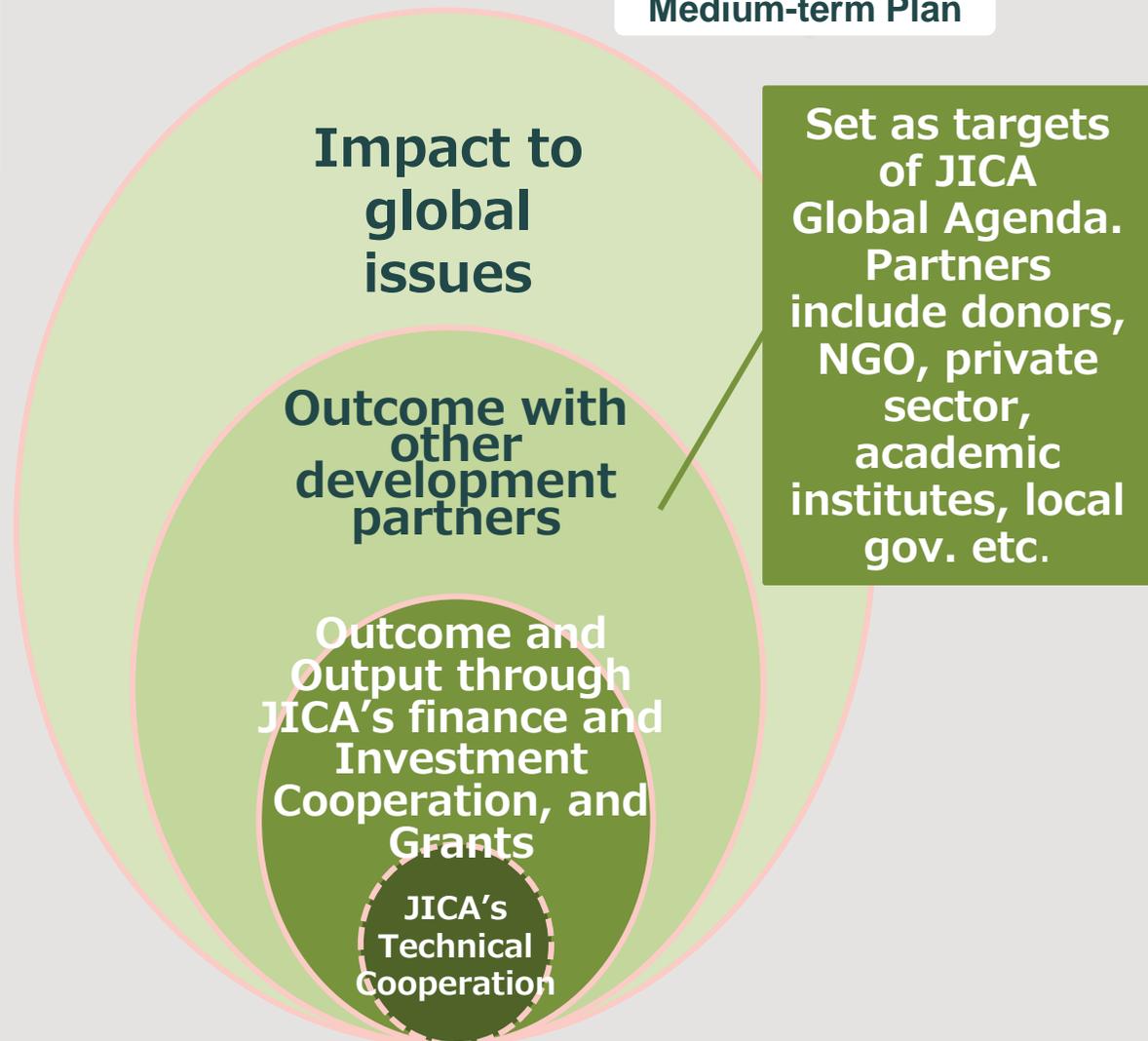


Medium-term Plan

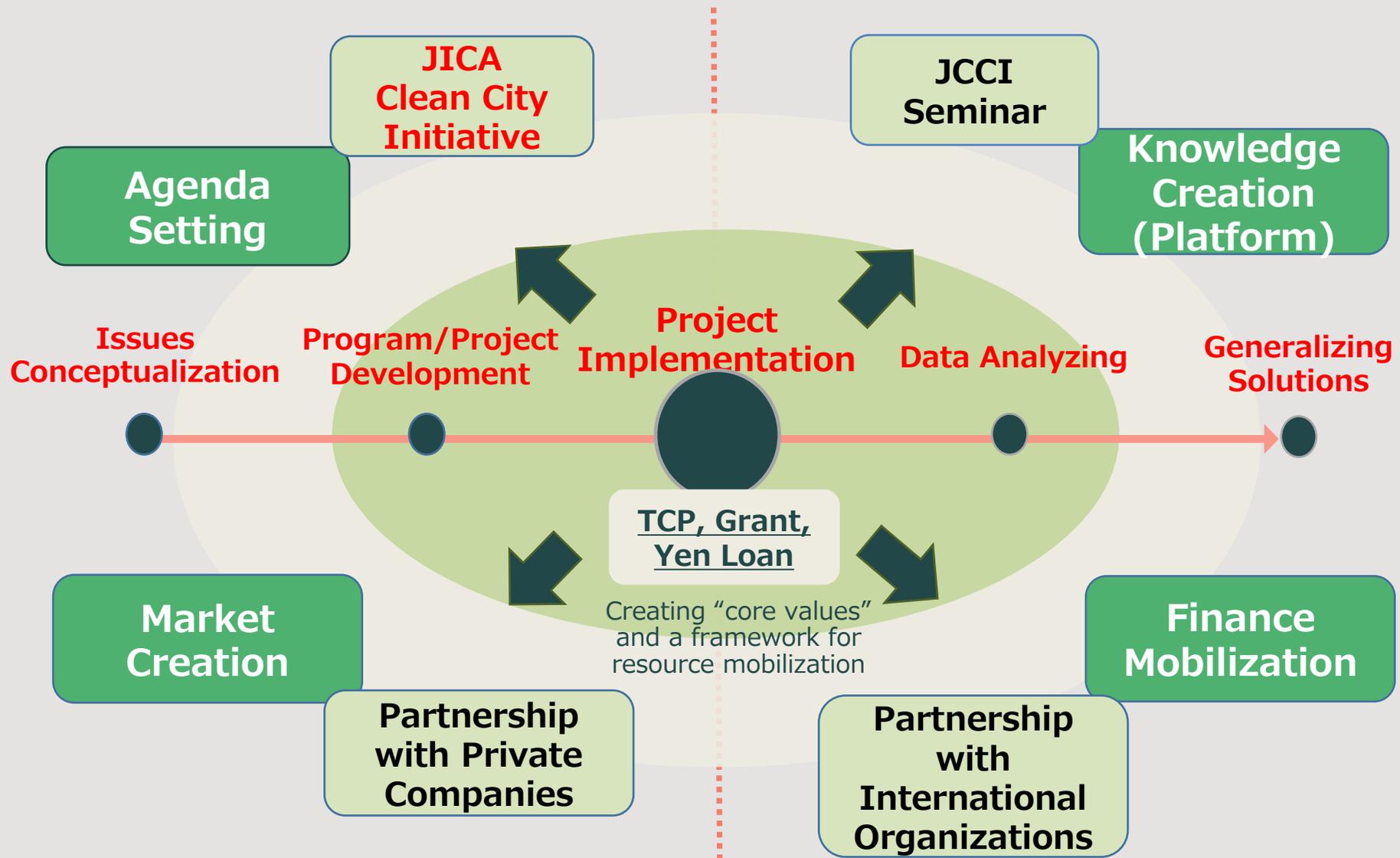
Promote dialogue with partner countries, International organizations

Maximize development impact through "PLATFORM"

Enhance accountability
Visualize impact / outcomes through annual monitoring and reporting



Non-finance/Intangible Resource Mobilization



Finance/Tangible Resource Mobilization

Piles of waste that keep increasing and plastic waste in the ocean

In Sub-Saharan Africa,
70% of waste is **left**
in uncontrolled disposal sites



Residential and industrial wastewater released to the environment is causing serious health problems

3.6 billion people live
without **adequate hygiene services**
such as toilets



Fourth biggest cause of death in the world is
air pollution caused by industrial activities and cars

According to data released in 2019,
6.67 million people **died** from Air pollution



Cluster 1

Improve **waste disposal** structures to create a **recycle-oriented society**

1 Create and implement a system to collect, transport, and dispose of waste

2 Reduce waste by introducing segregation and recycling

3 Support policies that reduce waste generation and promote effective use of resources

Cluster 2

Create a healthy **water, air, and soil environment** through environmental **regulations** and **pollution prevention measures**

1 Enhance the ability to analyze pollutants to understand the current problems

2 Develop and implement counter-pollution measures based on scientific evidence

3 Strengthen controls over pollutant generation while promoting investments in environmental measures

Steps toward waste improvement

1st stage

Improvement of public hygiene

- ✓ M/P, Action Plan
- ✓ Collection Improvement ex. Participatory approach
- ✓ Dumping Control Improvement (Open dumping to controlled dumping)

2nd stage

Reduction of environmental burden and prevention of pollution

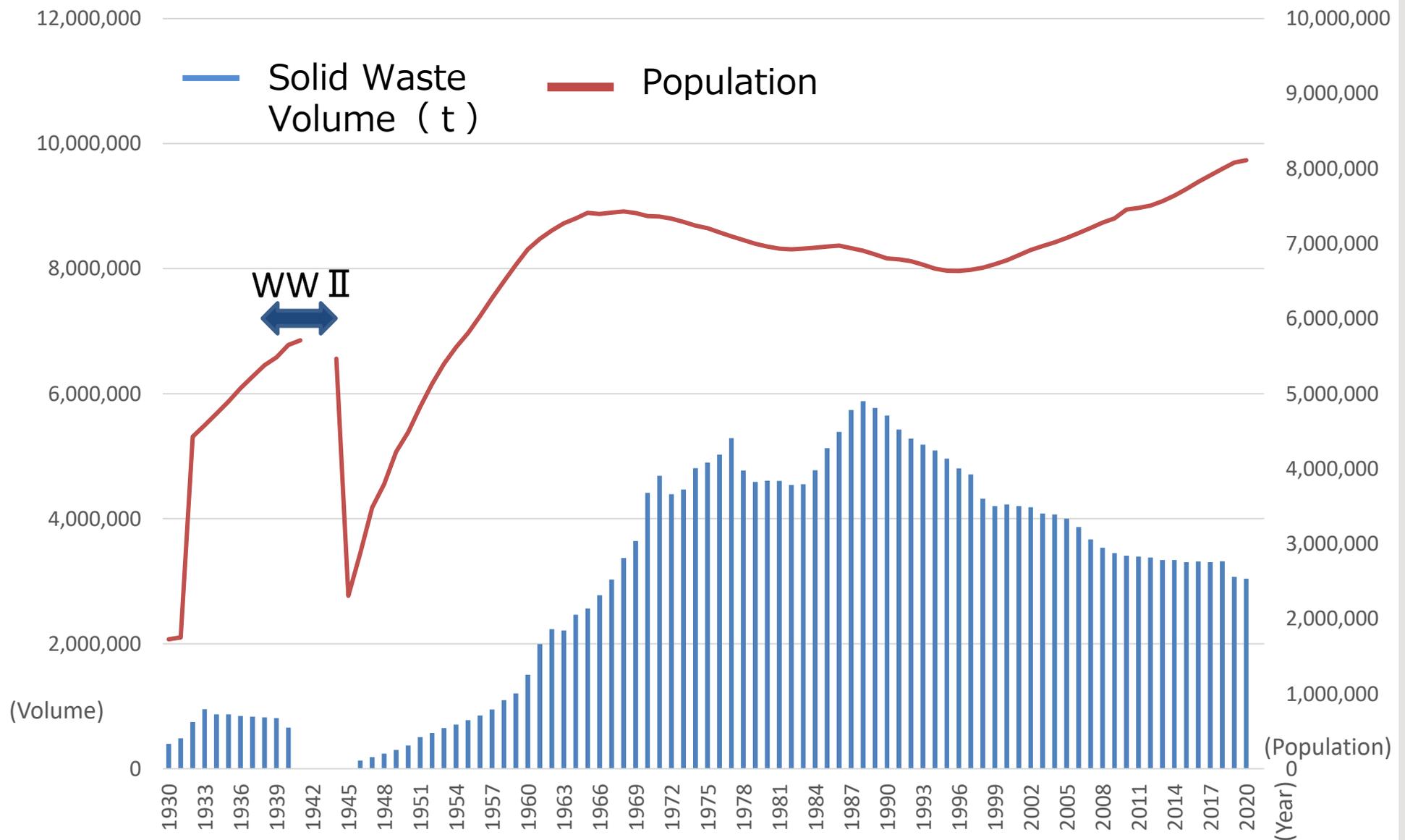
- ✓ Leachate treatment
- ✓ Sanitary landfill
- ✓ Segregation/3R Promotion

3rd stage

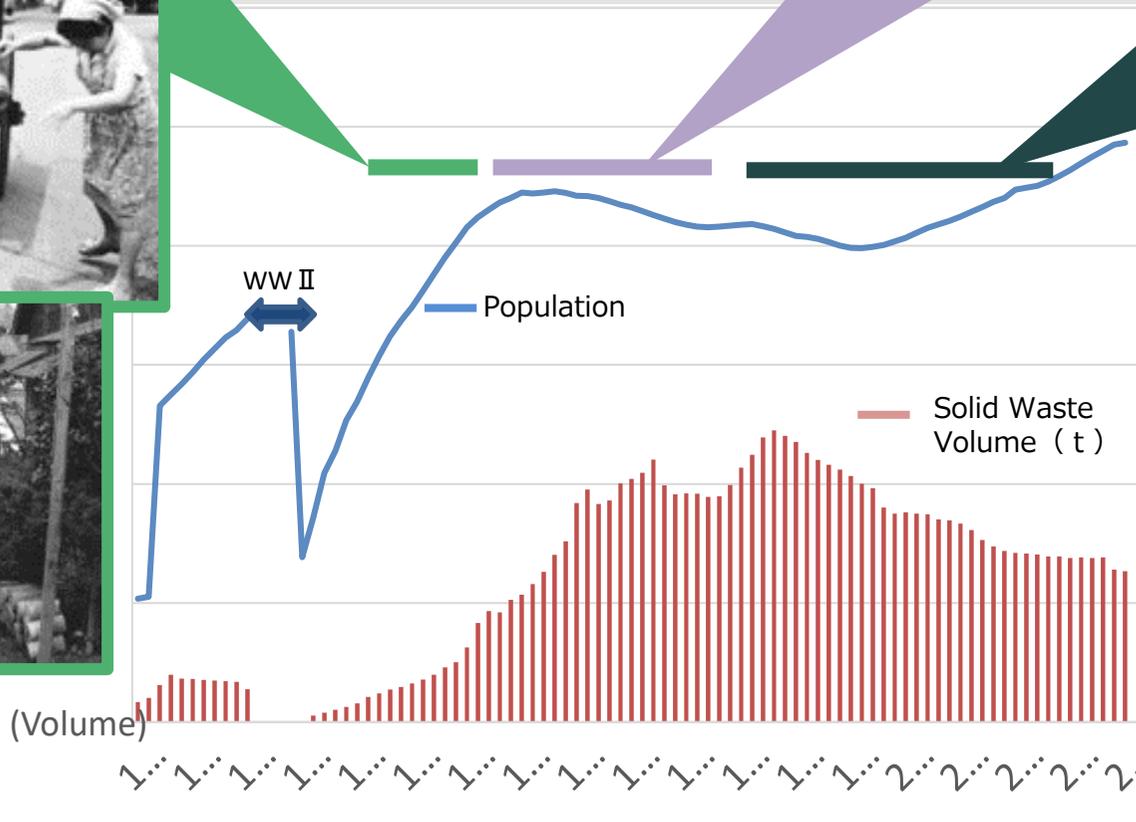
Establishment of material-cycle society with 3Rs initiative

- ✓ Public awareness dev.
- ✓ Legal framework dev.
- ✓ Recycling industry promotion

Road to material-cycle society from 1st stage

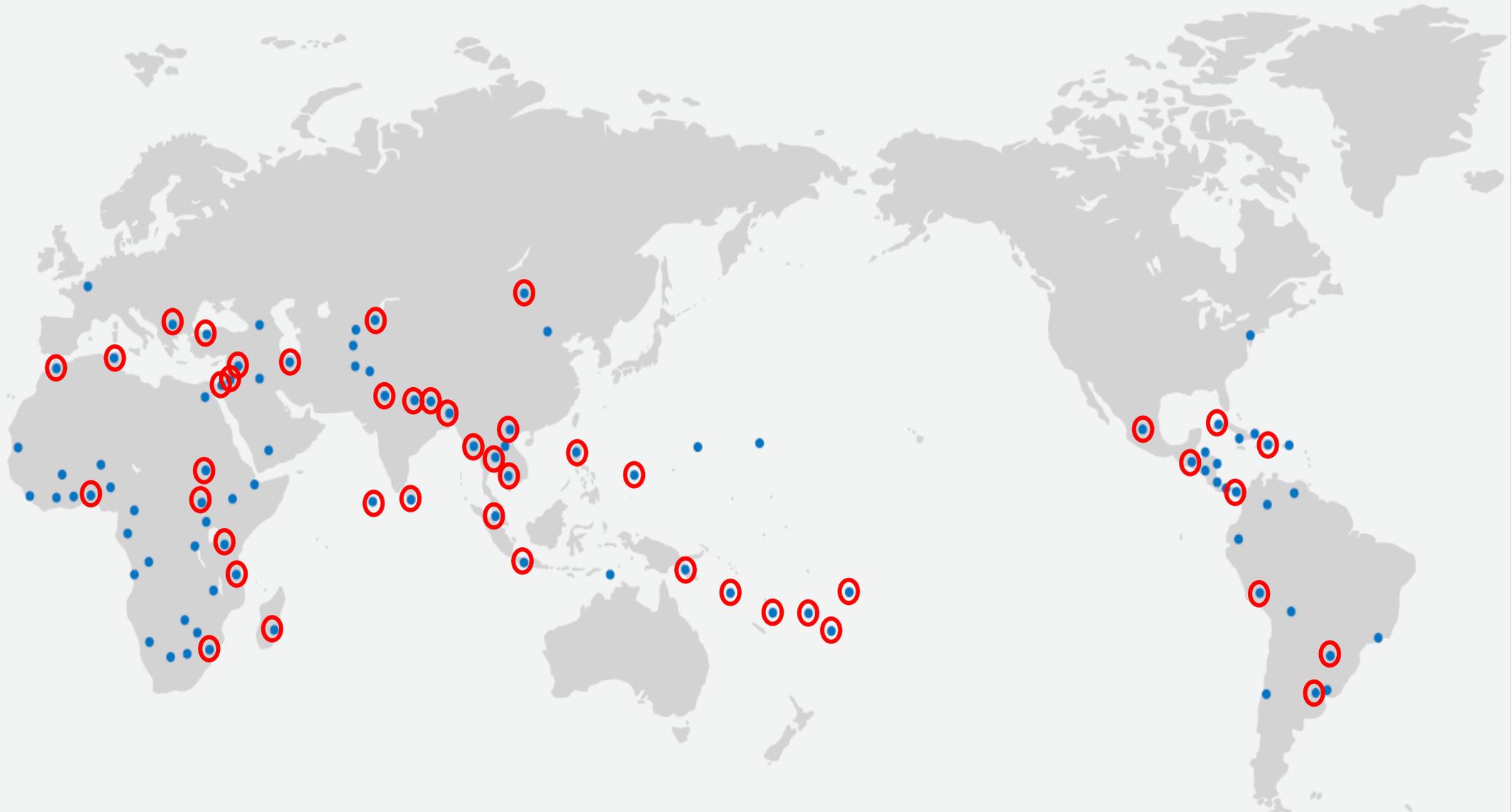


Data: Tokyo Metropolitan Government Bureau of Environment.



JICA Technical Cooperation Projects for Capacity Development in Municipal Solid Waste Management

- JICA Office
- MSWM Project



1 Road to material-cycle society in Malaysia ~M/P, Sanitary Landfills, 3R, WtE, etc., ~



Steps toward waste improvement

1st stage

Improvement of public hygiene

- ✓ M/P
- ✓ Dumping Control Improvement (Open dumping to controlled dumping)

2nd stage

Reduction of environmental burden and prevention of pollution

- ✓ Leachate treatment
- ✓ Sanitary landfill
- ✓ Waste Minimize Plan

3rd stage

Establishment of material-cycle society with 3Rs initiative

- ✓ Legal framework dev.
- ✓ Recycling industry promotion
- ✓ E-Waste
- ✓ Waste to Energy

Achieve !

Achieve !

2 Waste collection rate improved significantly from 44% in 2004 to 85% in 2021 in Dhaka, Bangladesh

Landfill Site



Before...

- Open dumping sites
- ✓ No soil cover
- ✓ Leachate to the access road

After...

- Sanitary landfill sites
- ✓ Soil cover and gas ventilation
- ✓ Proper leachate collection & treatment



Clean Campaign



Cleaners Training

Waste Collection

Before



After



Before

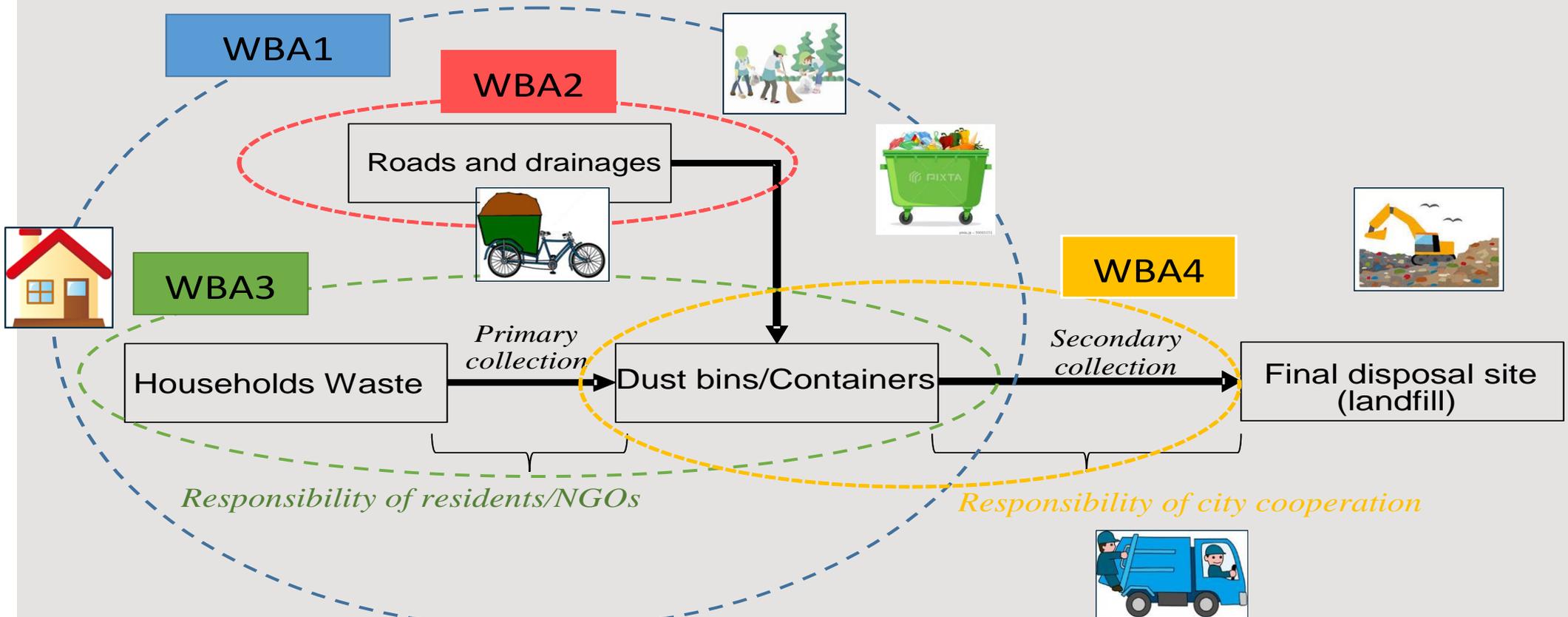


After



WARD BASED APPROACH (WBA)

- WBA 1: Construction and management of ward SWM office
- WBA 2: Safety education for cleaners and establishment of safety and sanitation committee
- WBA 3: Public awareness raising
- WBA 4: Improvement of waste collection service in each ward



Steps toward waste improvement

1st stage

Improvement of public hygiene

- ✓ M/P
- ✓ Segregation/Collection Improvement (WBA)
- ✓ Dumping Control
- ✓ Public Awareness

2nd stage

Reduction of environmental burden and prevention of pollution

- ✓ Leachate treatment
- ✓ Sanitary landfill
- ✓ Data Management
- ✓ Medical Waste

3rd stage

Establishment of material-cycle society with 3Rs initiative

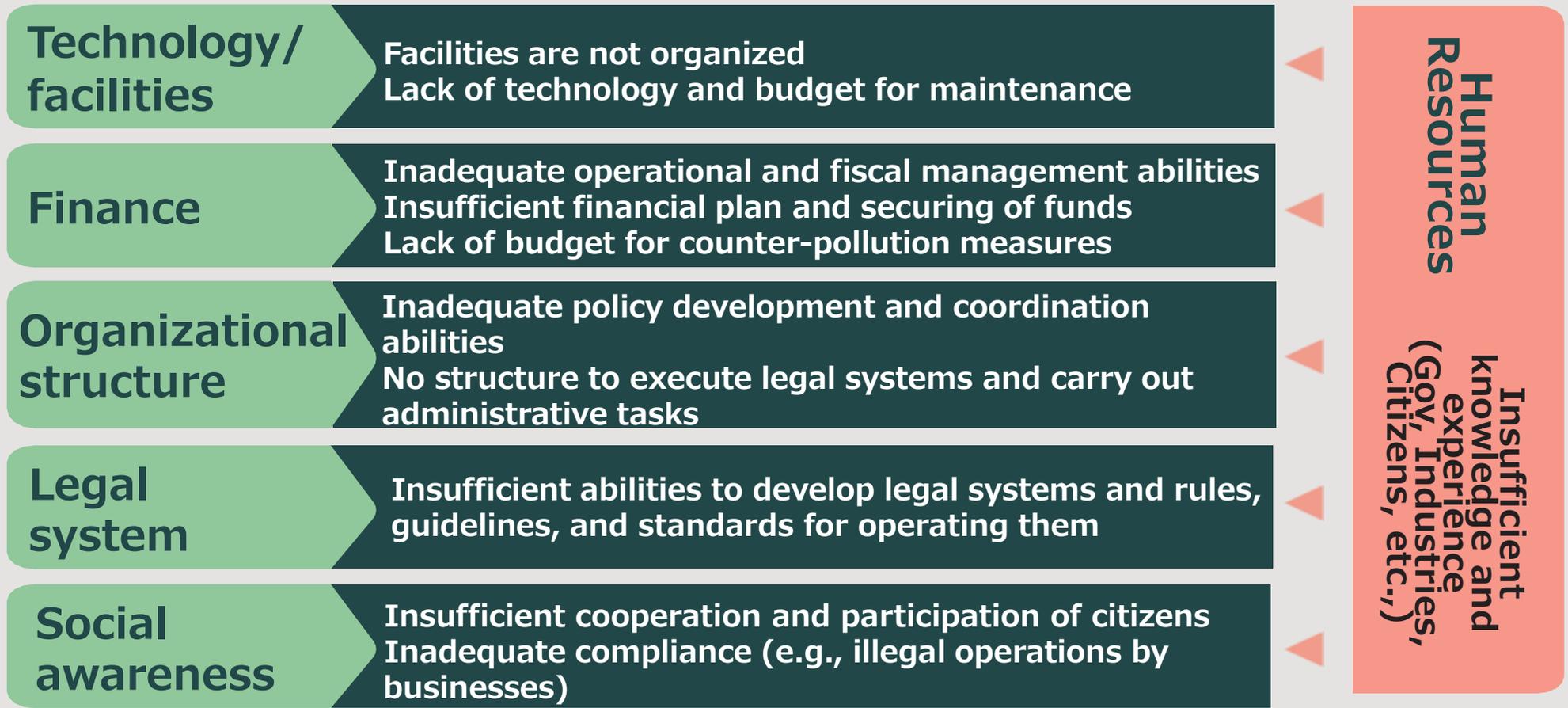
Achieve !

Next Target

Basis for common initiatives

Develop human resources who will be in charge of actions ranging from organizing facilities and legal systems to raising social awareness

Challenges in developing countries



To benefit **500 million** citizens in **50** countries by **2030** !

To Developing Countries;

- ◆ **Human Security:** Ensure **safe and healthy living environment**
- ◆ **Quality growth:** Realize economic growth which is inclusive, sustainable and resilient
- ◆ **With/Post COVID-19:** Reduce infection risk through maintenance & improvement of sanitary urban environment

To SDGs



To Global Environment;

- ◆ **Marine Plastic Pollution:** Prevent the discharge of plastic waste into rivers / oceans, toward realization of **“Osaka Blue Ocean Vision”** (aims to reduce additional pollution by marine plastic litter to zero by 2050)
- ◆ **Climate Change:** Prevent the generation of greenhouse gas (e.g. methane) through proper waste treatment
- ◆ **Biodiversity:** Prevent further environmental pollution thereby conserving ecosystems

**Thank you
for your kind attention**

The logo for the JICA Clean City Initiative (JCCI) is prominently displayed in the center of the left sidebar. It consists of the letters "JCCI" in a large, white, bold, sans-serif font, set against a background of various images related to the initiative, including a person with a barrel, a sea turtle, a factory, and a scenic landscape.

JICA Clean City Initiative

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