

# JICA's approach towards Circular Economy System

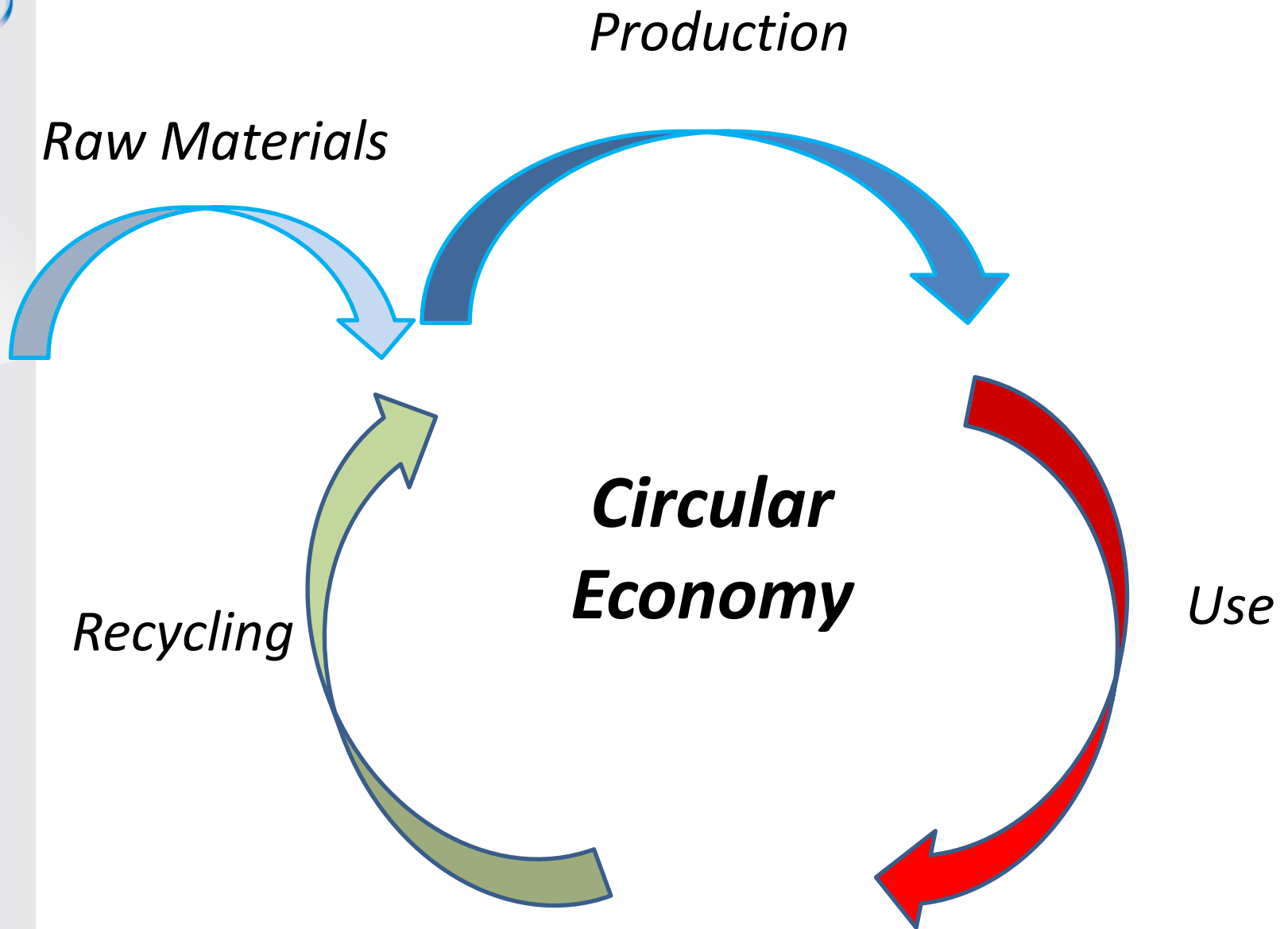


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Japan International Cooperation Agency (JICA)



# To successfully drop the circular economy

## *Principle 1:*

Preserve and enhance natural capital

## *Principle 2:*

Optimise resource yields

## *Principle 3:*

Foster system effectiveness

*Ellen MacArthur Foundation*

*Production*

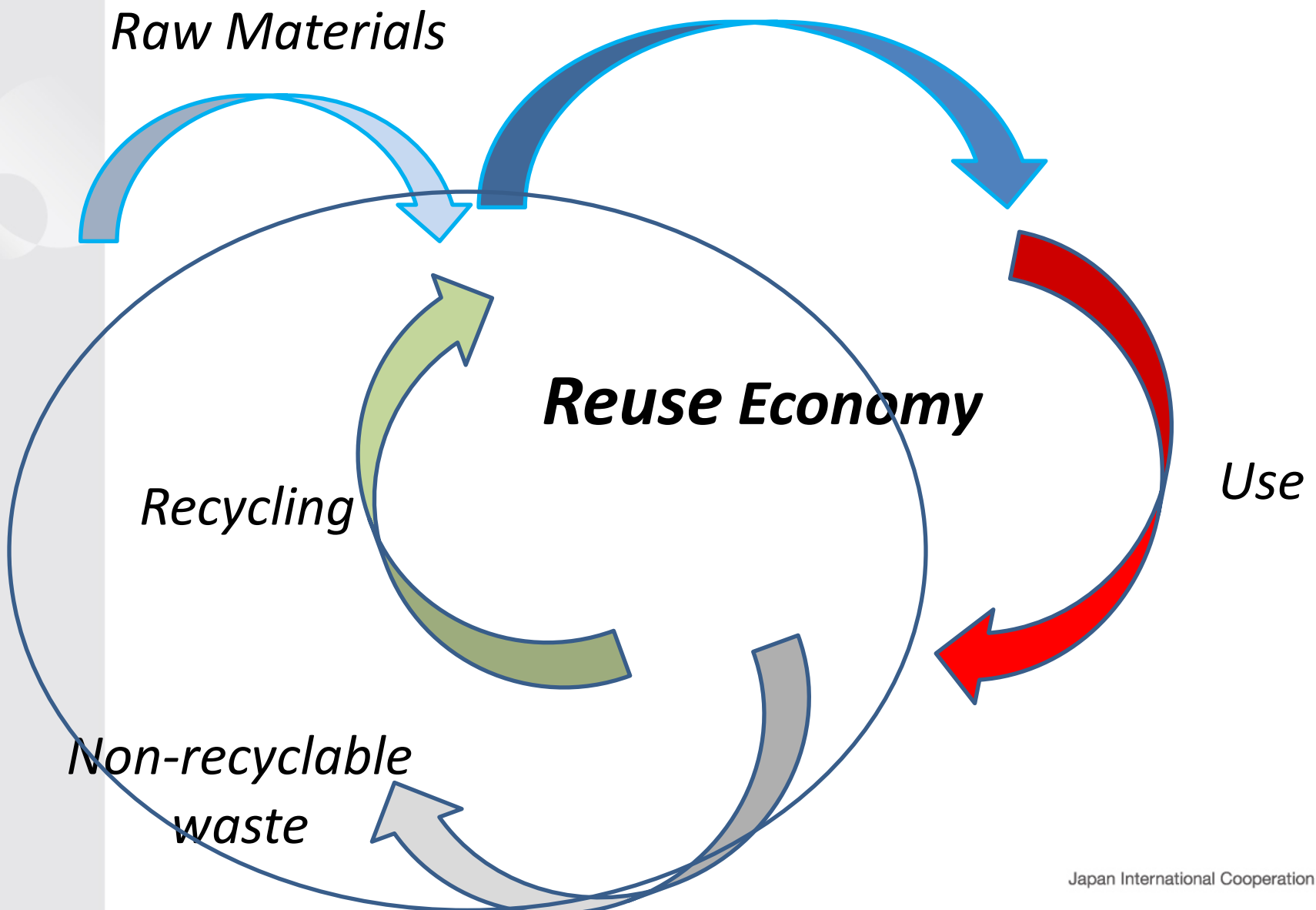
*Raw Materials*

***Reuse Economy***

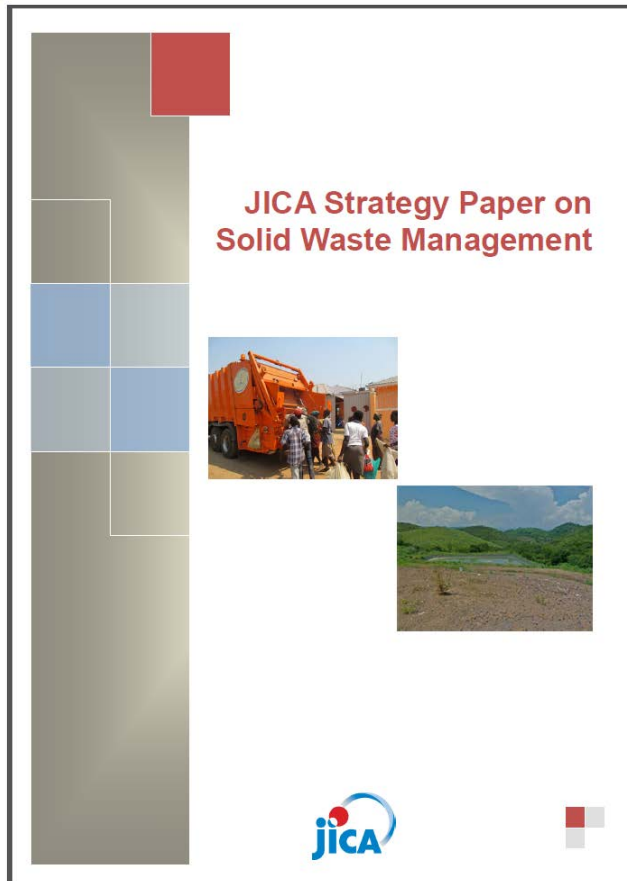
*Use*

*Recycling*

*Non-recyclable  
waste*

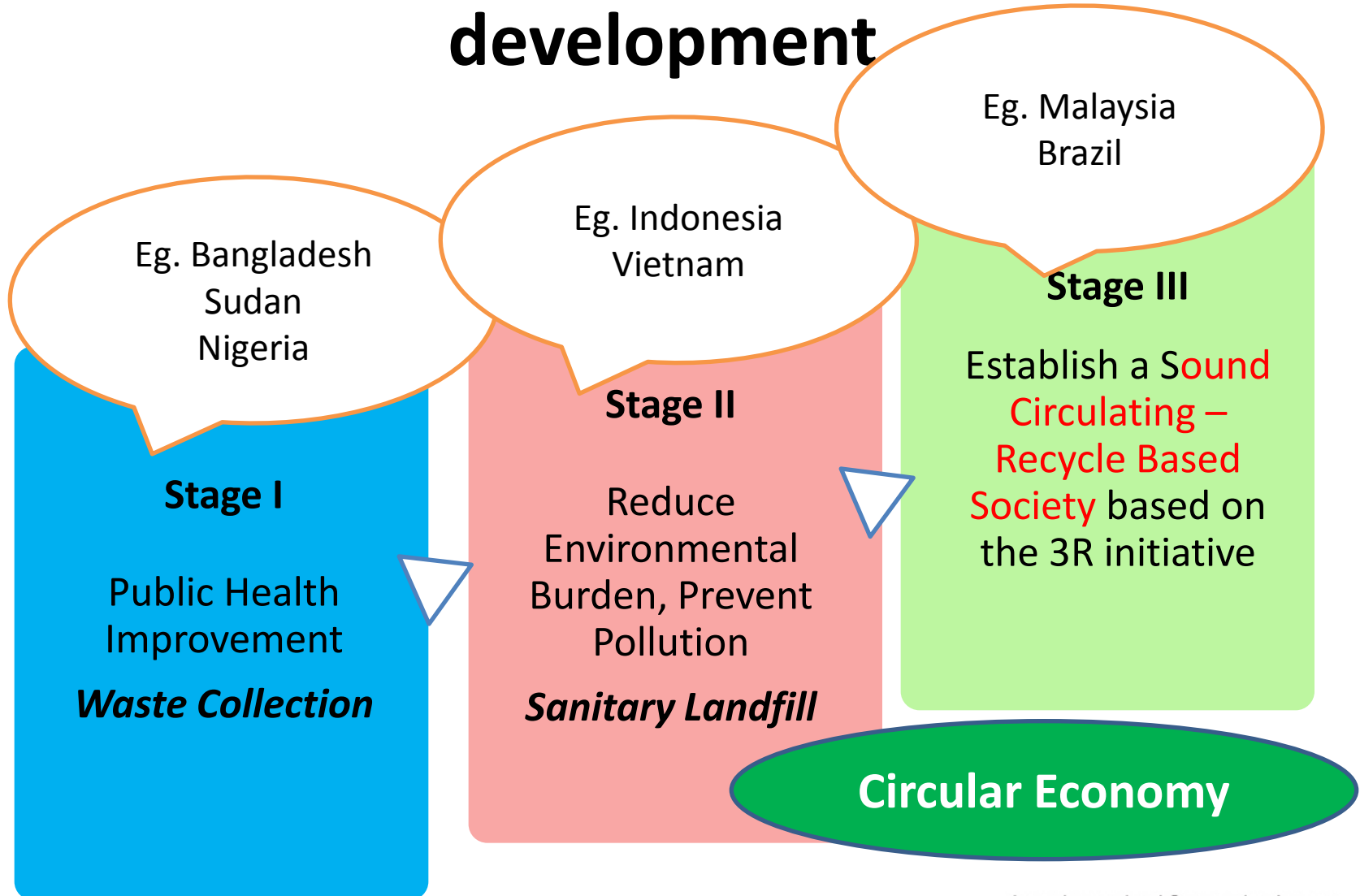


# JICA Strategy paper on Waste Management



Basic policy :  
Integrated Solid Waste  
Management  
to achieve the 3Rs

# Assistance based on a Country's stage of development



# Assistance for Stage III

## Goals

- ✓ Promote volume reduction and recycling of garbage
- ✓ Reduce environmental burden, including the GHG
- ✓ *Establish a sound material-cycle society*
- ✓ Collaborate with the national and/or local governments, citizens, and the private sector to promote the 3R initiative

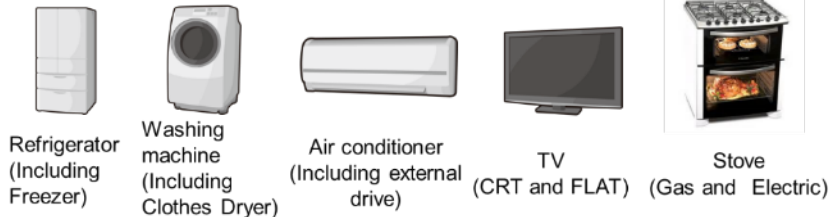


E-waste  
management  
project  
in Brazil

# E-waste Reverse Logistics Improvement in Brazil

## Target E-waste

### Large size E-waste



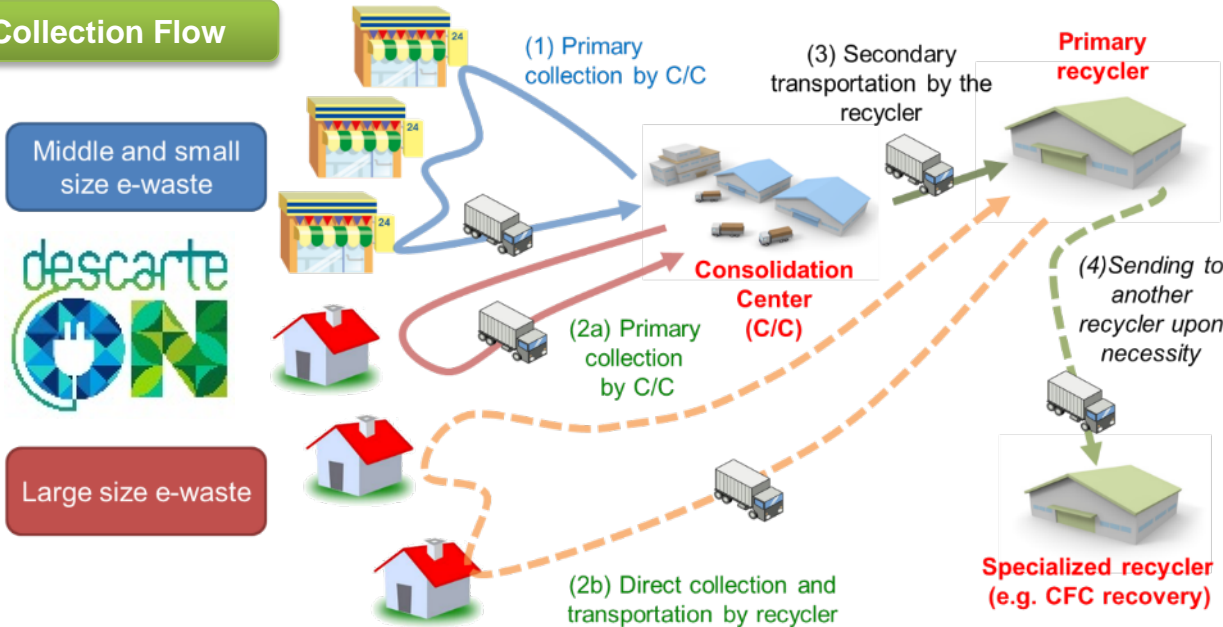
### Middle and small size E-waste



**Non-Collectable Items**

- Batteries
- Fluorescent lamps
- Tonner

## Collection Flow



## Mascot of PP

**"Descartes"**



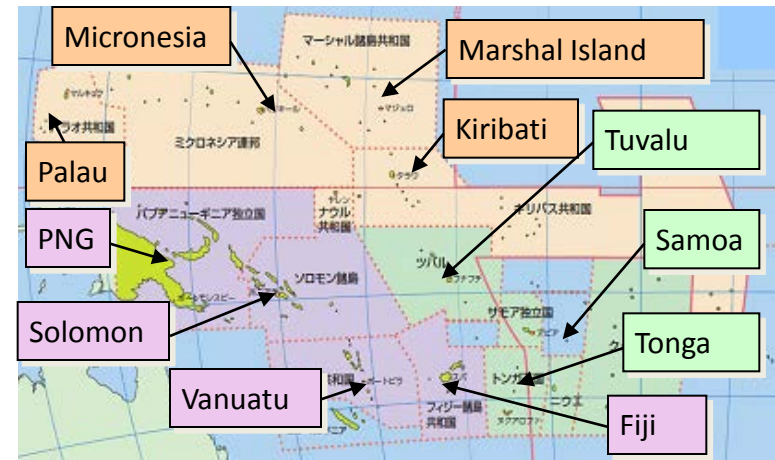


# Technical Cooperation (Region-wide Approach)

## Project for Promotion of Regional Initiative on Solid Waste Management in Pacific Island Countries

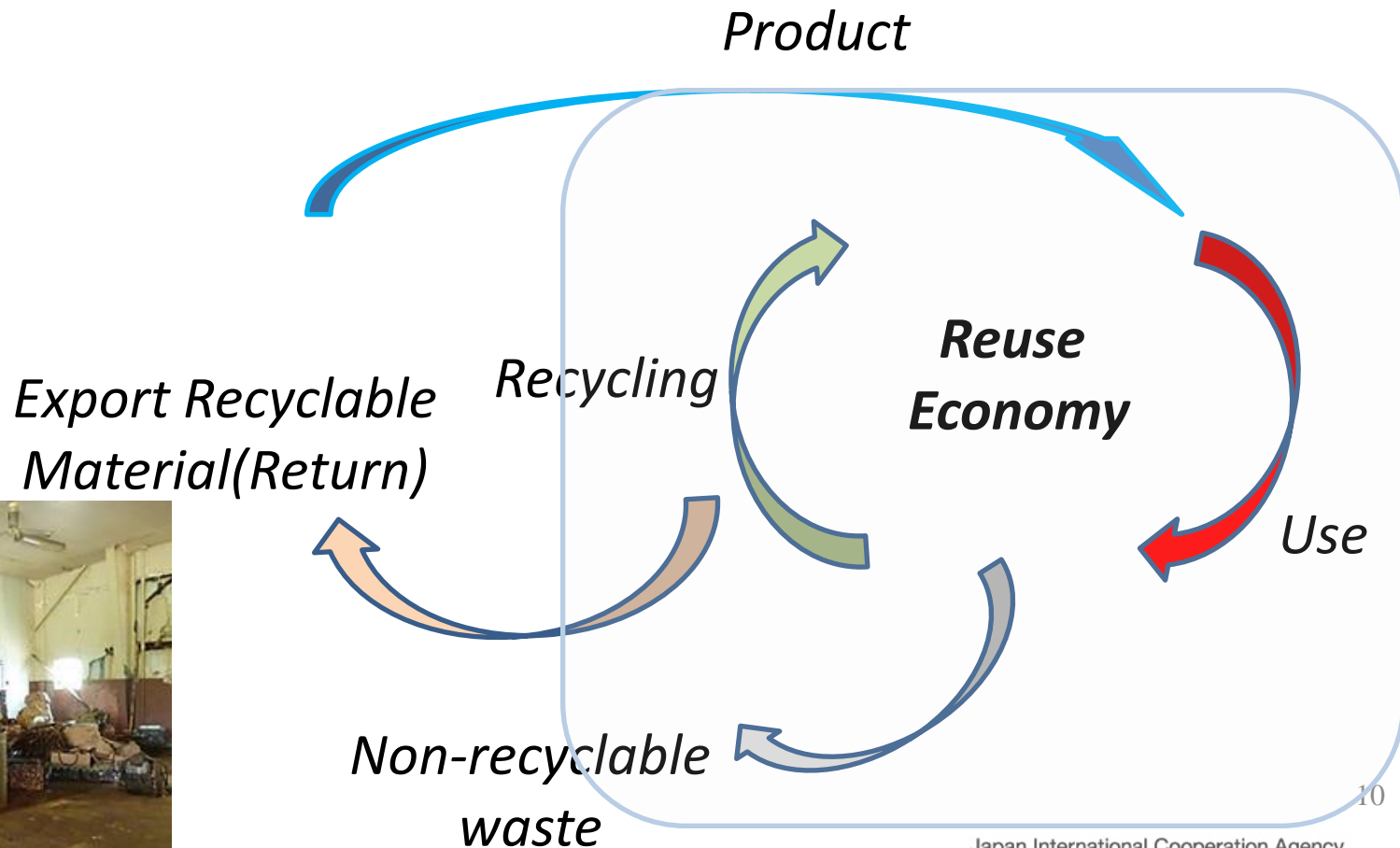
**Objective:** Strengthen the region's capacity through implementing *the Pacific Regional Waste and Pollution Management Strategy* at both national and regional levels

- ✓ Introduce “3R + Return” Concept
- ✓ Region-wide+ 12 Pacific Island Countries



# 3R + Return Concept to Pacific Island Countries

*Remoteness, Isolated, Narrowness*



# Cooperation with Local Government

## Hoi An "Eco-city" achievement support project



### Issue in Hoi An City

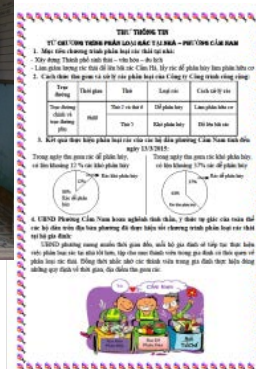
- ✓ Increasing urban waste due to economic growth & tourism
- ✓ Constraints of securing final disposal site

Introduce 3R activities ← Waste reduction



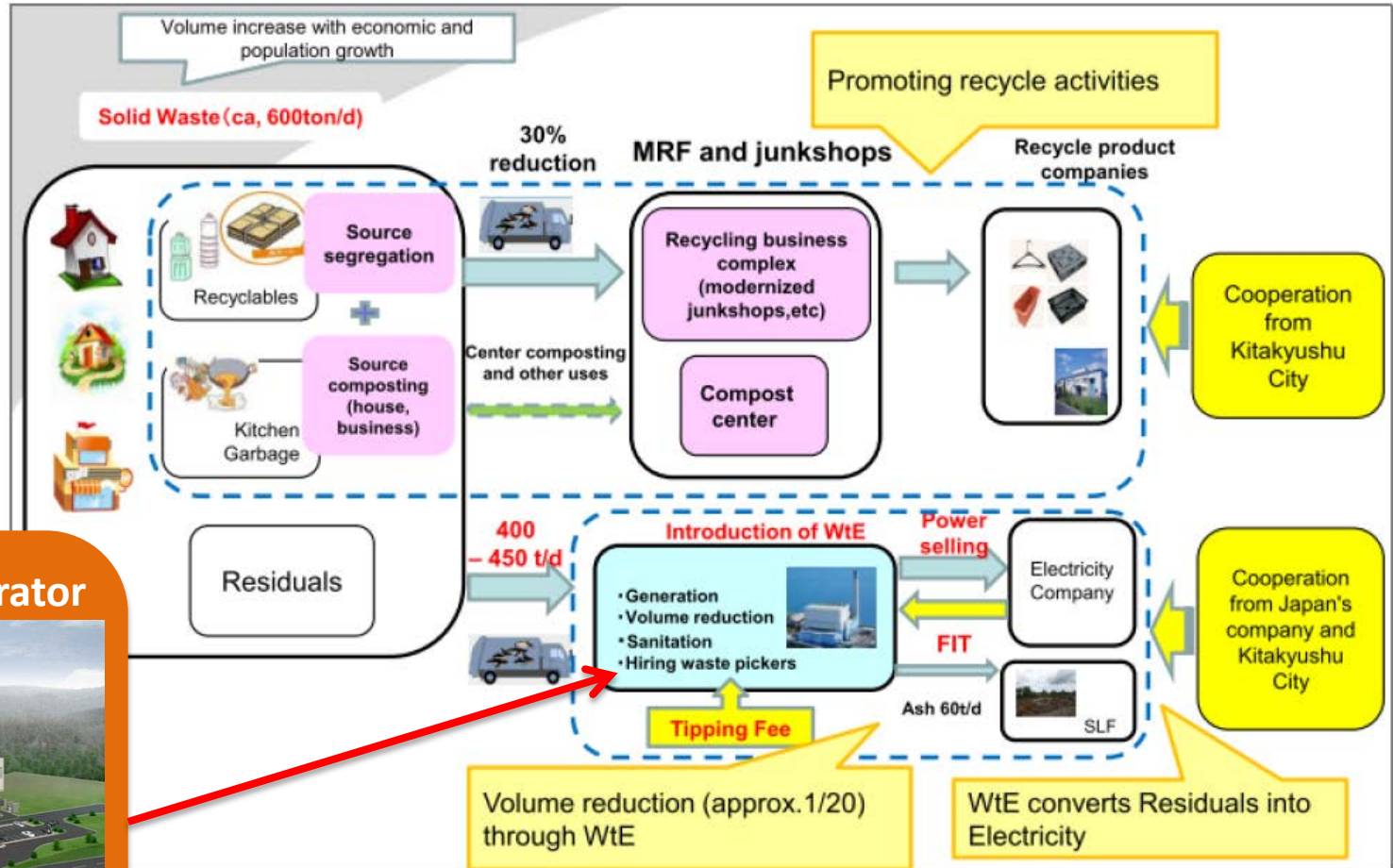
“Eco-city” : environment-conscious and touristic city  
Experience of Naha city in Okinawa, Japan

- Establish 3R regulations
- Public awareness
- Feedback & certification



# Collaboration with the Private Sector & Local government

## Waste-to-Energy system in Davao City



### Stoke gate incinerator



Nippon Steel & Sumikin  
Engineering Co., Ltd.

Coordination of know-how on waste management from [Kitakyushu City](#) and W-to-E technology from [a private sector](#)

# Steps towards Circular Economy

## *Linear/ Reuse Economy*

- ✓ *legal & institutional framework*
- ✓ *Organization*
- ✓ *Finance*
- ✓ *Private sector involvement*
- ✓ *Waste producer initiatives*
- ✓ *Citizen participation*
- ✓ *Cultural & social considerations*

## *Circular Economy*

- ✓ ***Step by step approach***
- ✓ ***Comprehensive approach***
- ✓ ***Involving stakeholders***
- ✓ ***Utilizing Japanese Experience & Technology***

# Thank you for your attention!

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