J-PRISM as an Example of Regional Cooperation in SWM in PICs

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Points of Presentation

1. **Background** of Islands Environment
2. **Challenges** to solid waste management in PICs
3. **J-PRISM** and its approaches to respond to challenges

Pacific islands:
an image of "Island Paradise"

1: Background of Island Environment

- Common Features/Constraints in PICs and Remote Islands of Okinawa -

(1) Geographical isolation
- Islands spread across the vast ocean
- Difficult access

(2) Limited Land Space
- Small islands/atolls
- Small number of population

(3) Remoteness
- Far from recycle markets

(4) Dependency
- Imported goods and foreign/outside aid

2: Challenges to Solid Waste Management in PICs

(1) One-way Traffic of Materials/Goods
- Imported materials/goods remain on island
- Recyclables/difficult waste disposed of at dumpsites

(2) Changes in the Amount and Types of Waste
- Growing amount of waste
- Some waste not degradable

(3) Lack of Capacity
- Lack of trained human resources
- Lack of financial resources for waste management

(4) Emerging Issue of Disaster Waste
- Lack of expertise to handle post disaster waste
- Lack of planning to prevent/handle disaster waste

As a result, solid waste is

Affecting economic development as well as environment by:
- jeopardizing the image of island paradise
- threatening natural resources
- posing risks to public health

3: What is J-PRISM?

(1) Technical cooperation project in SWM

(2) Targeting 11 countries in the Pacific

(3) Project Period: Feb. 2011~Jan. 2016

(4) SPREP (regional inter-governmental organization) as an implementation partner

(5) On-top of the past cooperation from 2000-2010

3: J-PRISM as a Response to Challenges in PICs
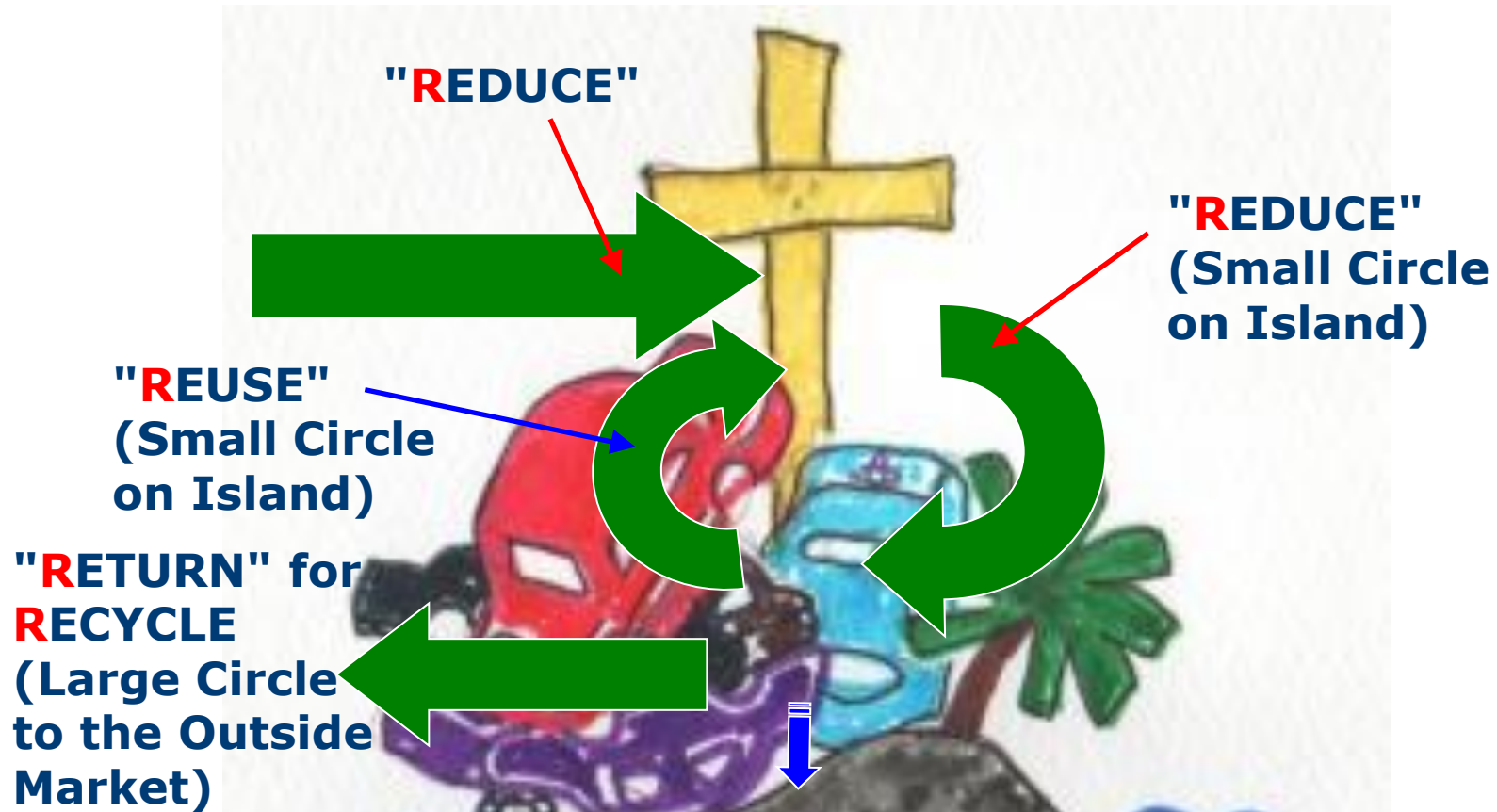## - with appropriate technology -

(1) Waste Minimization/Reduction (3R+Return)
(2) Proper Waste Disposal as the Safety Net
(3) Developing/Increasing the Capacity of Human Resources
(4) Disaster Waste Management (new issue)

One-way Traffic
- Waste Remains on Island -

Mass Import

Mass Consumption

...posal

NO

What is 3R+Return?

"REDUCE"

**"REDUCE"
(Small Circle
on Island)**

**"REUSE"
(Small Circle
on Island)**

**"RETURN" for
RECYCLE
(Large Circle
to the Outside
Market)**

Reduce input / import, maximize circulation and maximize output / return in order to minimize waste disposal in your small island!...... .

3: J-PRISM
- Promotion of 3R+Return (for SIDS) -

- **3R (Reduce, Reuse and Recycle)**
  However, recycle is not feasible in most countries in SIDSs for economic reasons.

- **3R plus Return**
  1. Return recyclables/difficult waste to large markets outside
  2. Return organic waste to the nature *(back to the nature!) on island*
  → **Minimize import of waste-prone materials/goods, maximize circulation and return so that minimal disposal on island is achieved.**

"Return" Recyclables & Difficult Waste to large/outside markets

Return

"**Return**" Organic Waste to the Nature/Soil (compost/multing)

- Kitchen waste
- Green waste
- Market waste

乾燥した市場ごみを木製型枠に入れる

十分な水分を加える

水分の蒸発防止にビニールシートを被せる

完成したコンポスト層（混在型）

3. J-PRISM
(2) Improvement of Disposal Sites

1. *Improvement of existing open dumping*
   - Improving facility
   - Improving management

2. *Changing peoples attitude (NIMBY)*
   - Improved visual impact
   - Improved work environment

3: J-PRISM
(3) Capacity Development

1. *Encouragement of "Do-it-yourself"*
   - ■ Direct involvement of targeted people (counterparts) in project activities

2. *Increase and utilization of local capacity and expertise* through
   - ■ Formal training (Japan, regional, in-country)
   - ■ Utilizing local experts (South-to-south)
     - ✓ Country Attachment Program
     - ✓ Study Visit Program
     - ✓ Trainer (local) Dispatch Program

3: J-PRISM
(4) Resilience to Disaster in SWM

Managing Post-Disaster Waste (Pilot Projects)

1. Tsunami in Samoa in 2009 (JICA Samoa)

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2. Flood in Fiji in 2012 (J-PRISM)
3. Cyclone/flood in Samoa in 2012 (J-PRISM)
4. Cyclone in Fiji in 2013 (J-PRISM)
5. Flood in Solomon Islands in 2014 (J-PRISM)

Preparing for Natural Disaster

Mitigation/Adaptation measures for Climate Change in SWM

Thank you very much.
Faafetai lava.
Vinaka Vakalevu.
Tenk yu tumas.
Kamangar.
ありがとうございます。