

Workshop on Marine Debris Reduction and Waste Management

JICA's Approach to Marine Waste Management

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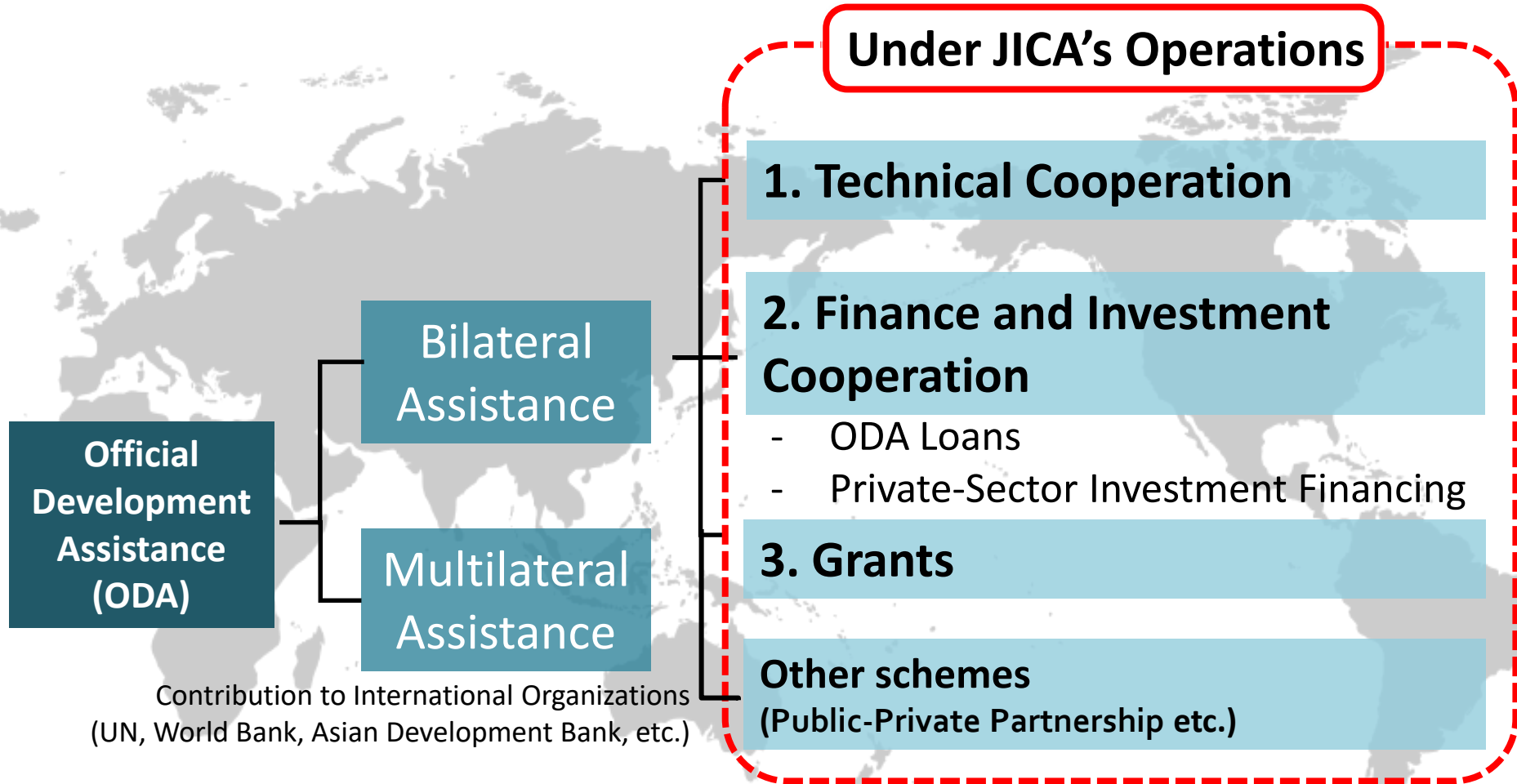
Environmental Management Group

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JICA is an Implementing Agency of Japanese ODA



JICA's Approach to Marine Waste

Support solid waste management on land in developing countries, which are estimated to produce large amounts of plastic waste.

80% of total marine plastic waste comes from land.*



Promotion of appropriate waste management

Most marine waste is released from developing countries. **



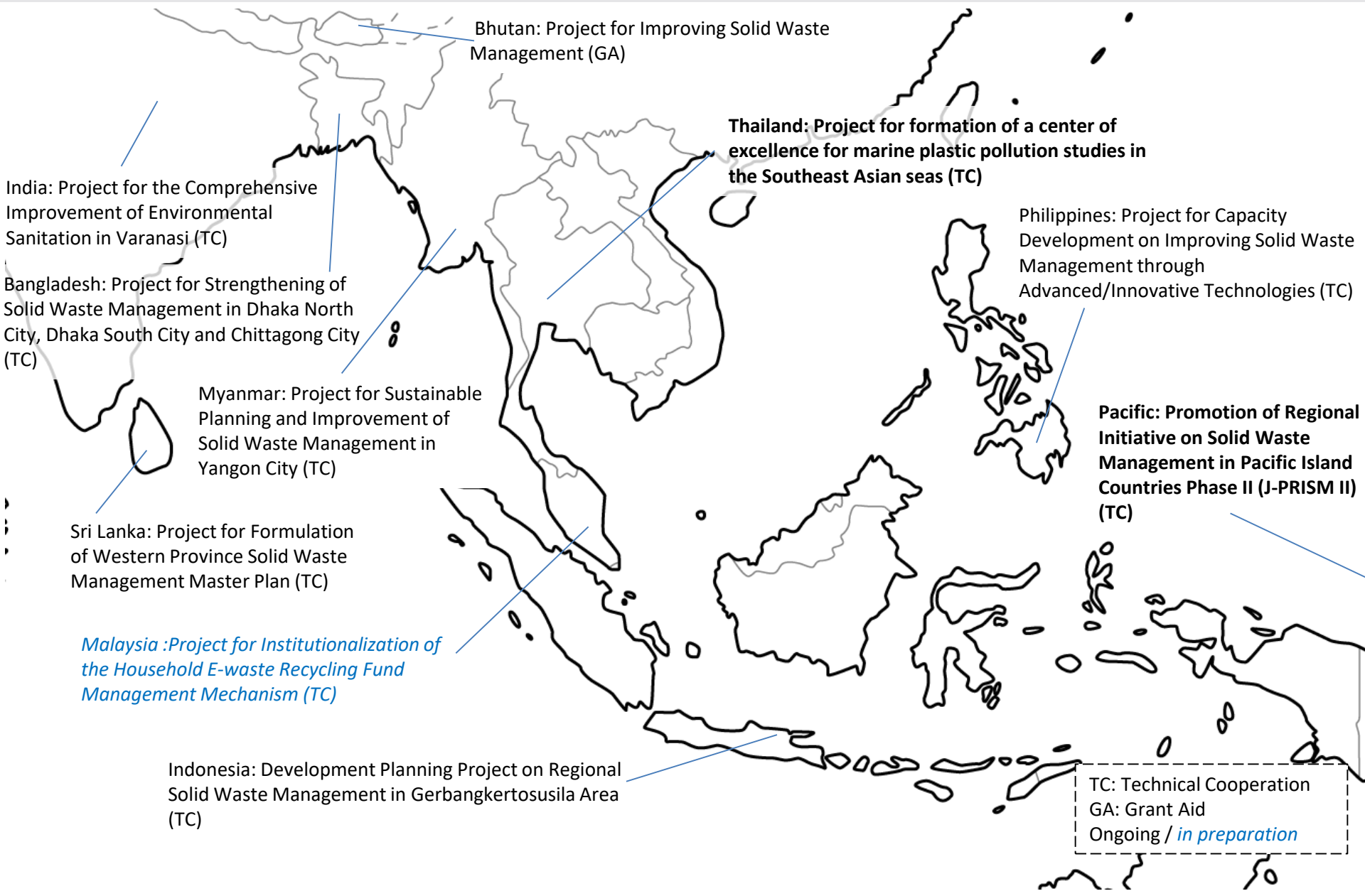
Assistance for developing countries that release a large amount of plastic waste

Sources:

*Ocean Conservancy & McKinsey & Company (2015) Stemming the Tide: Land-based strategies for a plastic-free ocean

**Jambeck et al.(2015) Plastic waste inputs from land into the ocean, Science

JICA's Project map on solid waste management in Asia & Pacific (as of April 2020)



Example: Proper collection and disposal

Bangladesh: Clean Dhaka Project (2000-)

Cooperation for Dhaka

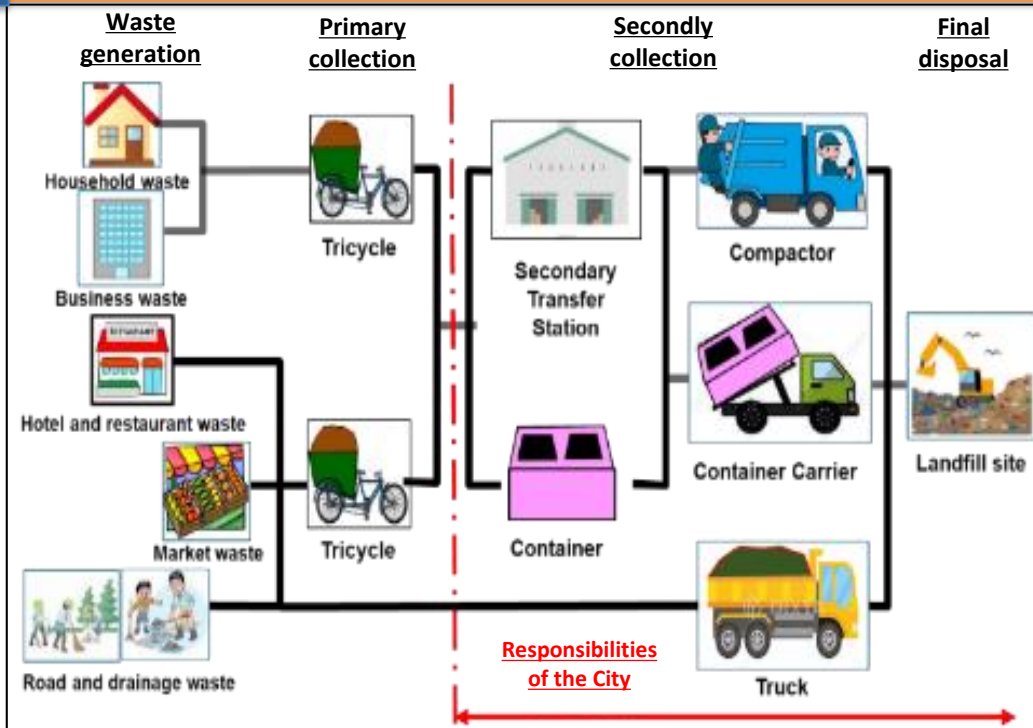
- Expand district authority and improve collection system [T/C]
- Supply compactor, improve final disposal [Grants]
- Awareness raising for citizens [JICA Volunteer]



Next Step

**Formulate Master Plan by 2032,
consider further support including
investment**

System of collection and disposal



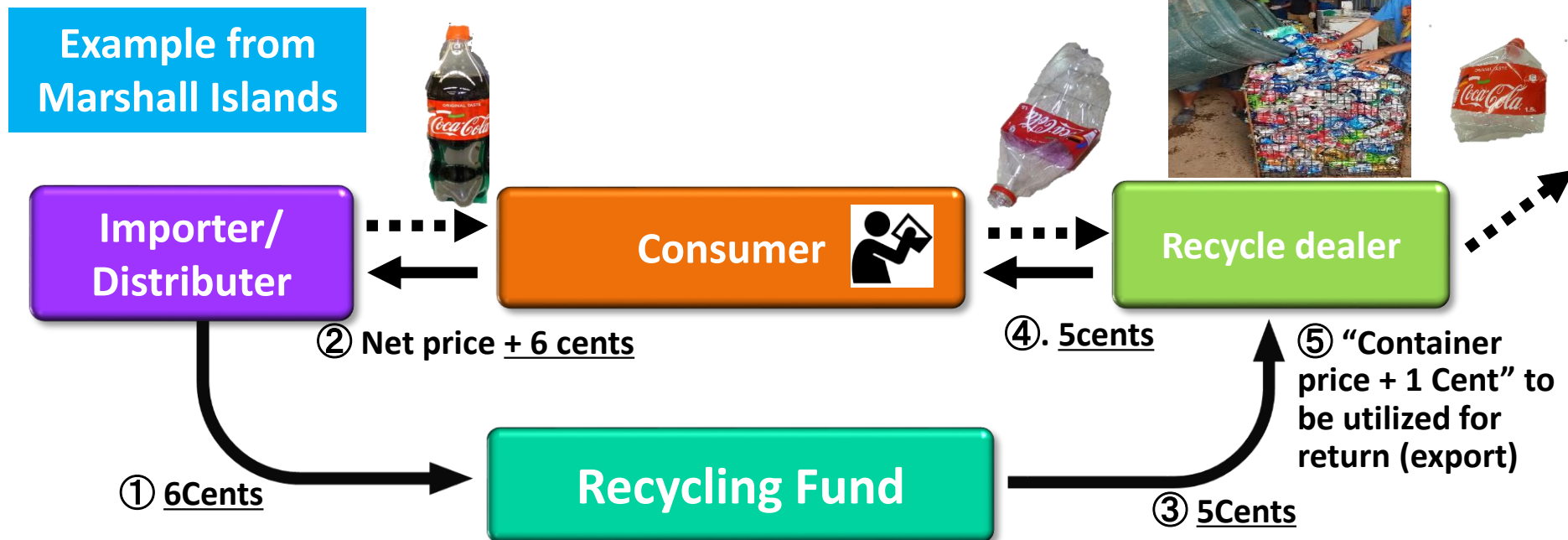
Waste collection rate : 44% (2004) → **80%** (2017)

Amount of waste collection per day : 1,400t (2004) → **4,948t** (2017)

Example: Add economic incentive: Container Deposit Legislation (CDL)

‘J-PRISM’ Project (phase I/II) in Pacific Island Countries (2011-2022)*

- In small island countries, containers need to be “Returned”. For sustainable CDL system, the mechanism involving importers and create management fund for collection center are crucial. → **Promotion of 3R+Return**
- Deposit is included in the price, and redeemed once the container is returned to collection center. It increases container collection rate, and **prevent outflowing marine plastic litters**.



JICA's 5 Approaches

1. Evidence-based Approach

- Research and data collection surveys

2. Developing Waste Management Systems

- Promotion of proper collection and disposal, circular economy

3. Introducing Alternative Materials

- Introduction of biodegradable materials

4. Awareness Raising of Citizens

- Collaboration with effective materials

5. Encouraging Networking and Co-learning

- Among different countries in the region

Thank you for your attention.

