

JICA's Cooperation for the 3Rs



30/10/2006

Global Environment Department

JICA

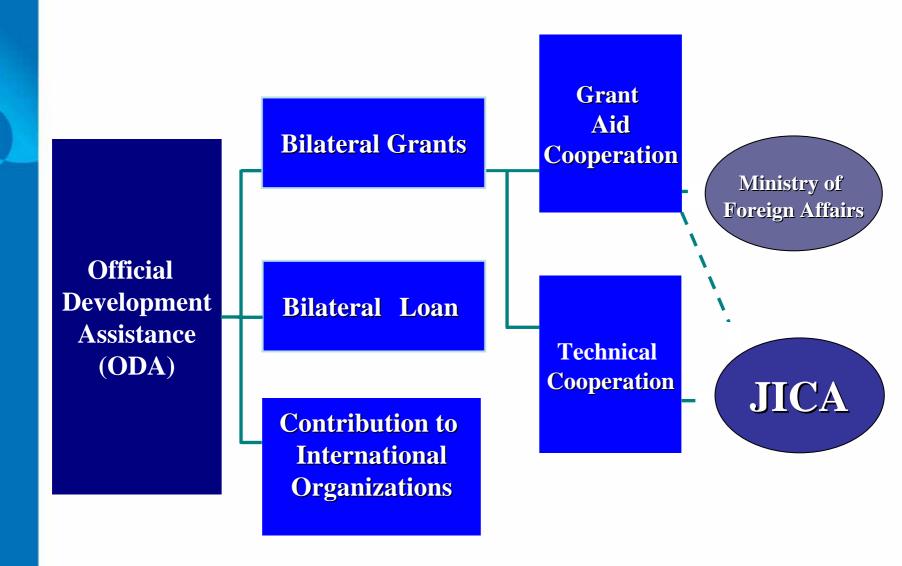


Today's Presentation

- Outline of JICA
- JICA's Cooperation for Solid Waste Management in Asia (e.g. Cambodia, Bangladesh)
- JICA's 3Rs related projects (e.g. Malaysia)
- JICA's Lessons Learnt



ODA and **JICA**

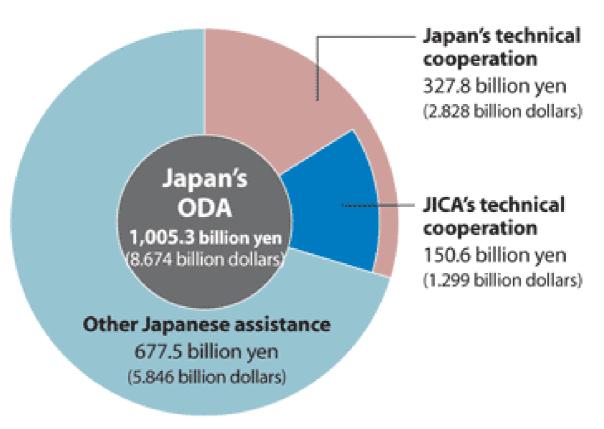


Source: JICA's brochure



JAPAN's ODA and JICA's Technical Cooperation

Japan's ODA & JICA's Technical Cooperation (Calendar Year 2003)



Japanese ODA per capita: 7,880 yen

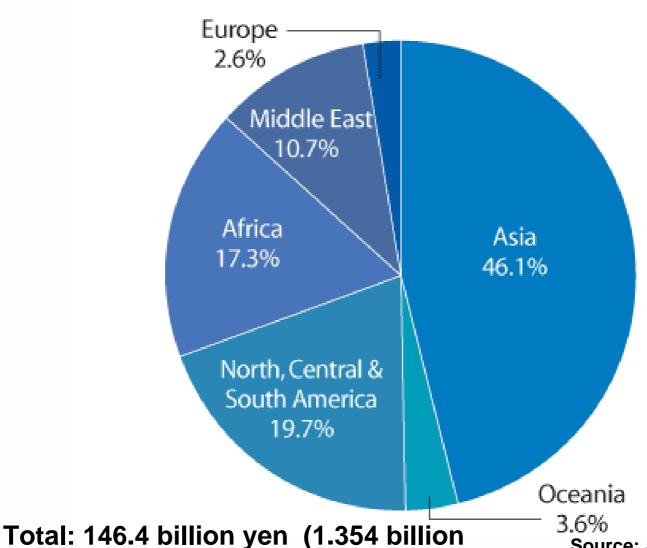
Of which, used for JICA projects: 1,180 yen

Source: OECD Development Assistance Committee (DAC)



JICA's Assistance by

JICA's Assistance by Region (Fiscal Year 2004)

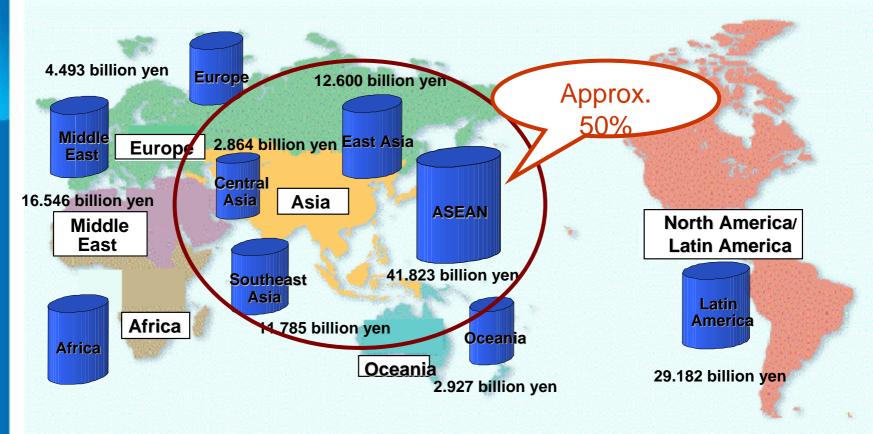


dollars)

Source: JICA brochure



Assistance in the Environment field



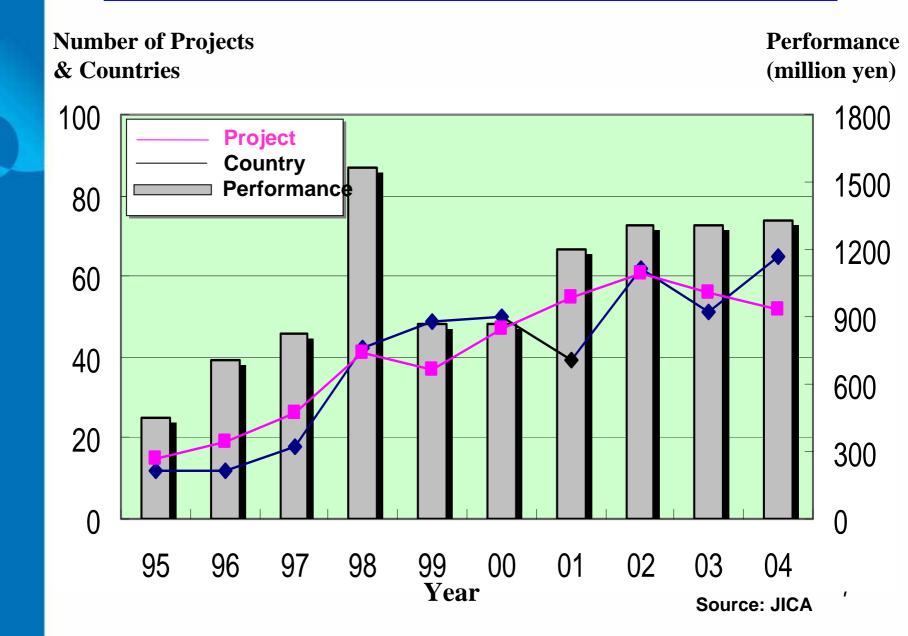
Total: approximately 139.028 billion yen (from fiscal 2000 to 2004)

Main programs include Technical Cooperation Projects, Development Studies, Studies on Grant Aid Programs, Dispatch of Experts, Dispatch of Volunteers, Technical Training Programs, among others.

Source: JICA brochure

JICA

Trends in Waste Management





Progress of Assistance Approaches in Solid Waste Management Sector

1970s-

Hardware-input approach

1980s-

Software-input approach

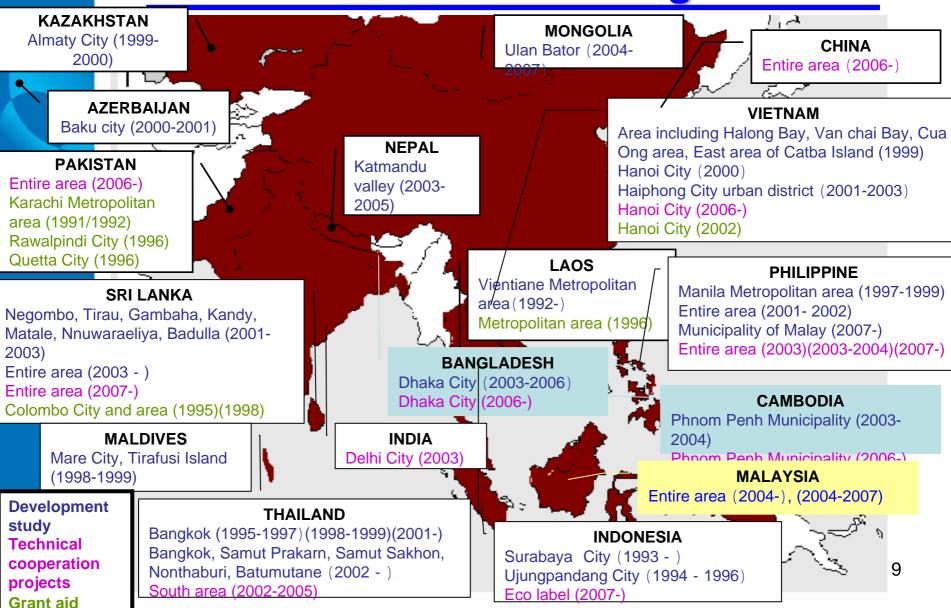
1990s-

CD-support approach

CD; Capacity Development



JICA's Technical Cooperation for Solid Waste Management





SWM Project (Cambodia)

- Title: The Study on Solid Waste Management in the Municipality of Phnom Penh in the Kingdom of Cambodia
- Period: Feb 2003 March 2005
- Purpose:
- 1) To develop a master plan for SWM
- 2) To conduct a feasibility study for the selected priority projects
- 3) To transfer technology to the counterp
- Counterpart unit:

Department of Public Works and Transp Phnom Penh Waste Management Autho





SWM project (Cambodia)







Phase 1

(Feb 2003-Aug 2003)

Phase 2

(Sep 2003-March 2004)

Phase 3

(May 2004-March 2005)









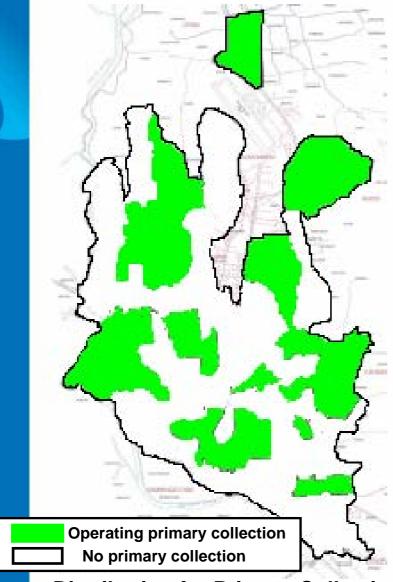
SWM Project (Bangladesh)

- Title: The Study on The Solid Waste Management in the Dhaka City
- Period: November 2003 March 2006
- Purpose:
- 1) To develop a Clean Dhaka master plan
- 2) To improve and strengthen the capabilities and skills of Dhaka City Corporation (DCC) personnel in terms of SWM
- Counterpart unit:
 Dhaka City Cooperation (DCC)

Illegally dumped waste



SWM Project (Bangladesh)



Clean Dhaka Master plan:

- To improve communitybased primary collection
- To strengthen the capacity for secondary collection and transport
- To improve and secure final disposal
- To improve the administrative capacity for SWM

Solid Waste Management
Project in Dhaka City (February
2007-March 2010)



JICA's 3R-related projects

Country	Title	Period	Purpose
Malaysia	The Study on National Waste Minimization in Malaysia	2004.7 - 2006.7	To formulate a master plan and an action plan and to develop the capacity of the governments and communities for promoting recycling activities.
Vietnam	The Project for Implementation Support for 3R Initiative in Hanoi City	2006.11 - 2009.11	To prepare a harmonized 3R system based on source separation programs of organic waste for introduction to the entire area of Hanoi City.
Philippines	The Study on Recycling Industry Development in the Republic of the Philippines	2006.7 – 2008.2	To formulate policies and measures to promote the recycling industry.

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JICA's activities in Malaysia related to SWM

1) Dispatch of experts

- Action Plan for waste management (1986-1988)
- Sanitary landfill (1988-1990)
- Environmental Education (1991-1993)

2) Training

Various topics on SWM (e.g. waste landfill technology)

3) Development study

- Penang Waste Deposit Program (1987-1989)
- The Study on the Safe Closedown and Improvement of Waste Landfill Disposal Sites (2002-2004)
- The Study on National Waste Minimization (2004-2006)

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The Study on National Waste Minimization in Malaysia

- **Period**: 2004.7 2006.7
- Purpose:
- To formulate a master plan and an action plan for the promotion of recycling.
- To develop the capacity of the governments and communities for promoting recycling activities.
- Counterpart unit: Ministry of Housing and Local Government







JICA's Lessons Learnt

~ Road to the 3Rs ~

Need for the Improvement of SWM

Storing, Discharge Collection, Transport

Final disposal

3Rs

Needs & Capacity

National Government

Local Government

Private Sector

Academic Institutes

Communities

NGOs / NPOs