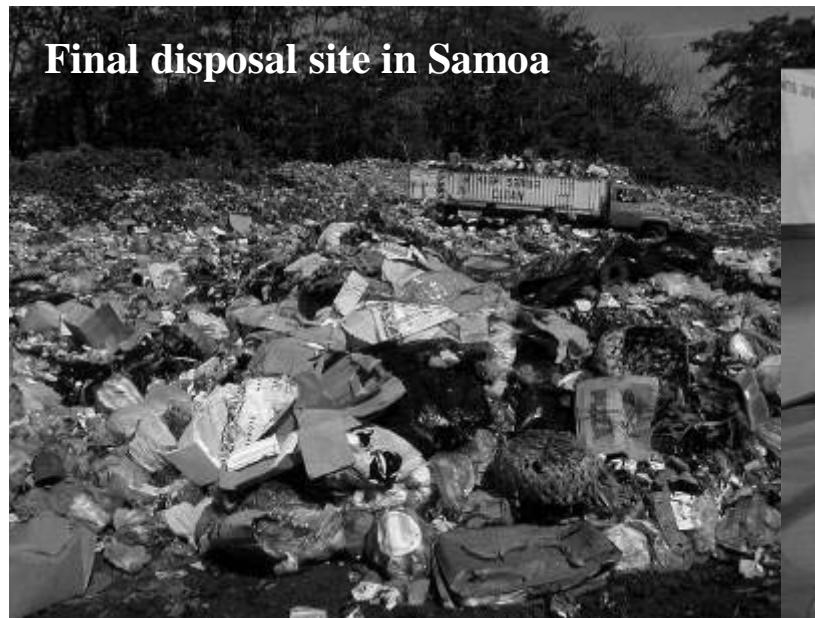


JICA's Technical Cooperation - Waste Management -



Final disposal site in Samoa



3R's program in Malaysia

Japan International Cooperation Agency (JICA)

Global Environment Department

Kazuya SUZUKI

22nd April 2008

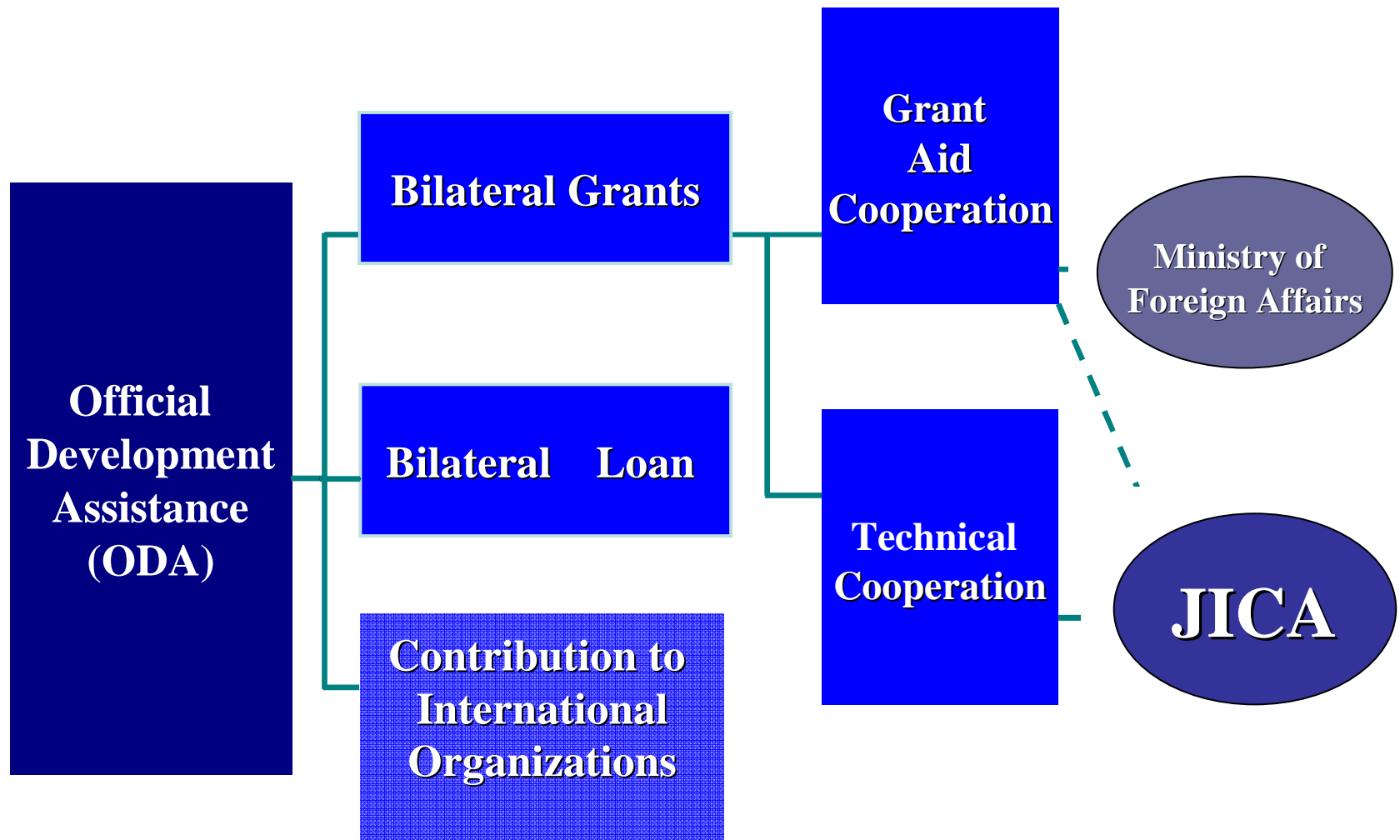
Regional Research Conference :Green Jobs for Asia and the Pacific

NIIGATA

Today's Presentation

- ODA and JICA
- JICA's Cooperation for Environmental Management
- JICA's Cooperation in the field of Waste Management

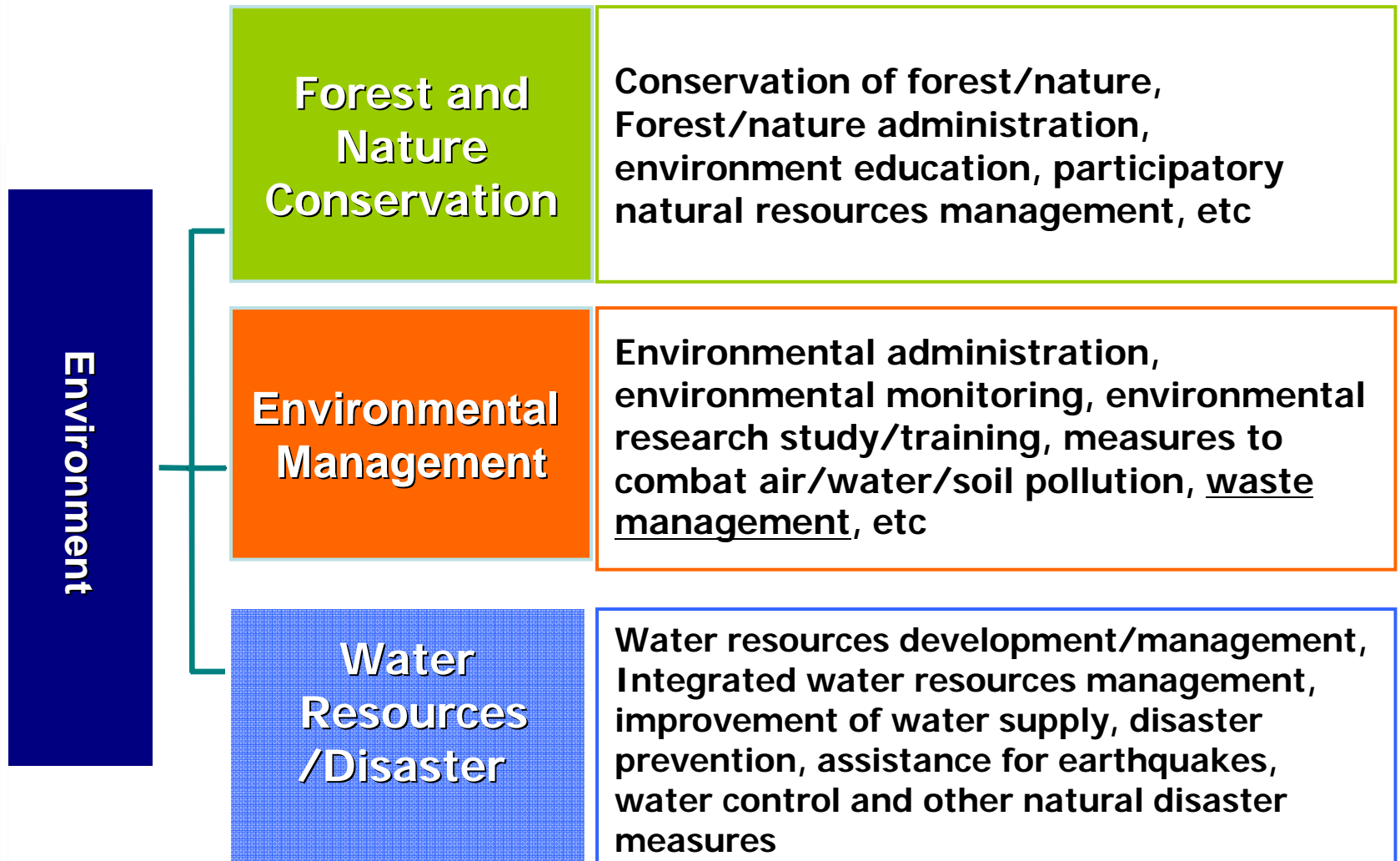
ODA and JICA



Source: JICA's brochure

JICA's Cooperation for Environmental Management

JICA's Cooperation in the field of Environment

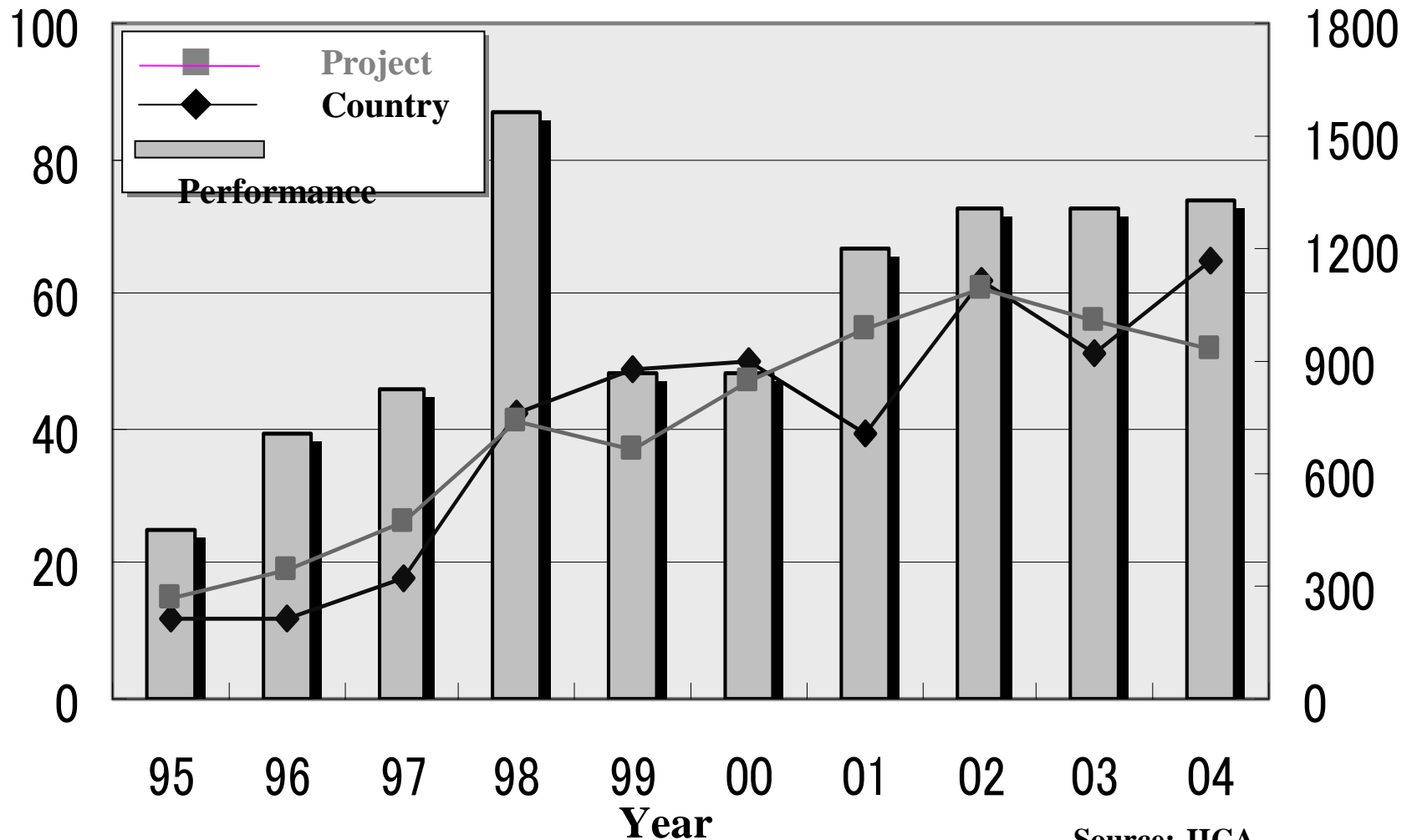


JICA's Cooperation in the field of Solid Waste Management

Trends in Waste Management

Number of Projects
& Countries

Performance
(million yen)



Source: JICA

Progress of Assistance Approaches in Solid Waste Management Sector

1970s-

Hardware-input approach



1980s-

Software-input approach



1990s-

CD-support approach



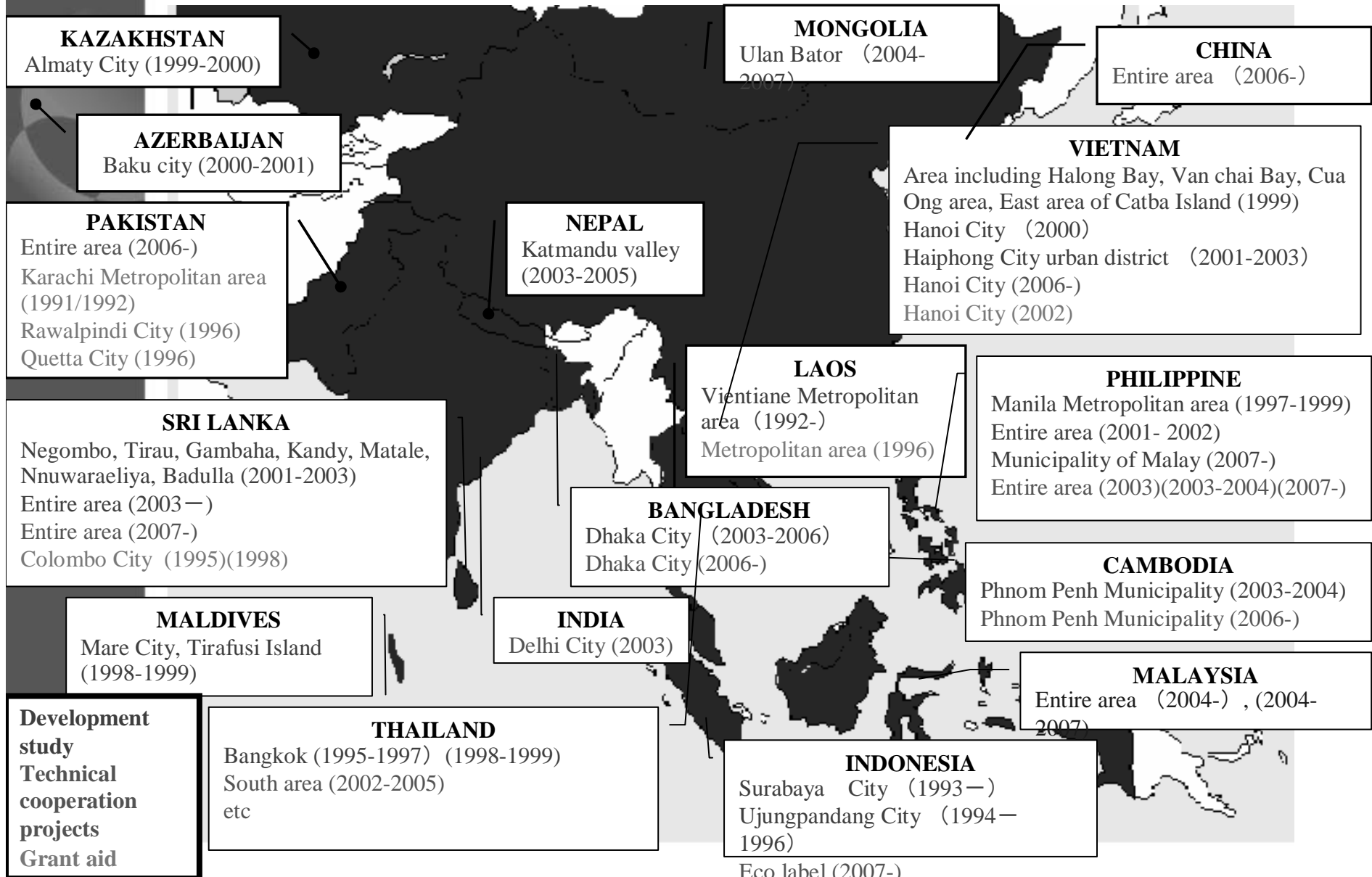
※CD; Capacity Development

Capacity Development (CD)

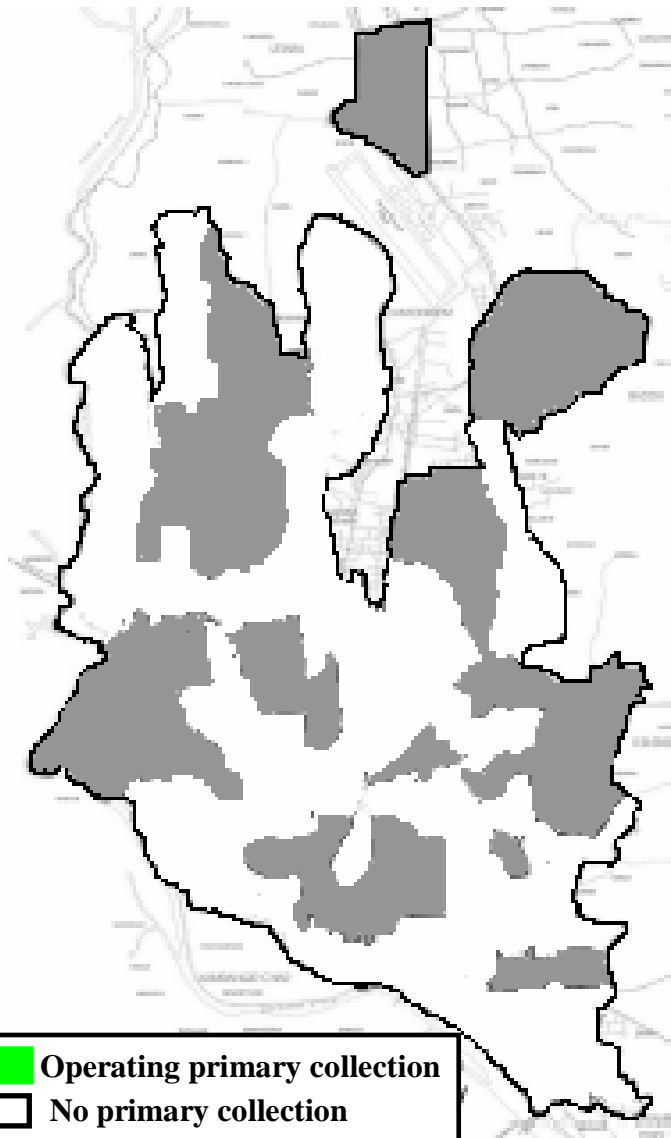
- CD is defined as “the ongoing process of enhancing the problem-solving abilities of developing countries by taking into account all the factors at the individual, organizational and societal levels.”.
- The concept is aimed at helping developing countries with their endogenous and continuous process of improvement.



JICA's Cooperation for Solid Waste Management in Asia



Solid Waste Management Project (Bangladesh)



Distribution for Primary Collection

Clean Dhaka Master plan:

- To improve community-based 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

Solid Waste Management Project (Bangladesh)

- **Title:** Technical cooperation project for Strengthening of SWM in Dhaka City – Clean Dhaka Project
- **Period:** February 2007 – February 2011
- **Purpose:** The solid waste management services of Dhaka City Cooperation are improved.
- **Outputs:**
 - 1) Management capacity of the solid waste management Department is strengthened.
 - 2) Participatory solid waste management program is promoted.
 - 3) Capacity for solid waste collection and transportation is improved.
 - 4) Final disposal sites are operated and managed appropriately.
 - 5) Accounting system necessary for solid waste management is improved.
- **Counterpart unit:**
Dhaka City Cooperation (DCC)



Illegally dumped waste

3R(Reduce, Reuse, Recycle)

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.

2020

2003

Nam Son SWM Complex

2500 ton/day

Nam Son: 2016

120 ton/day

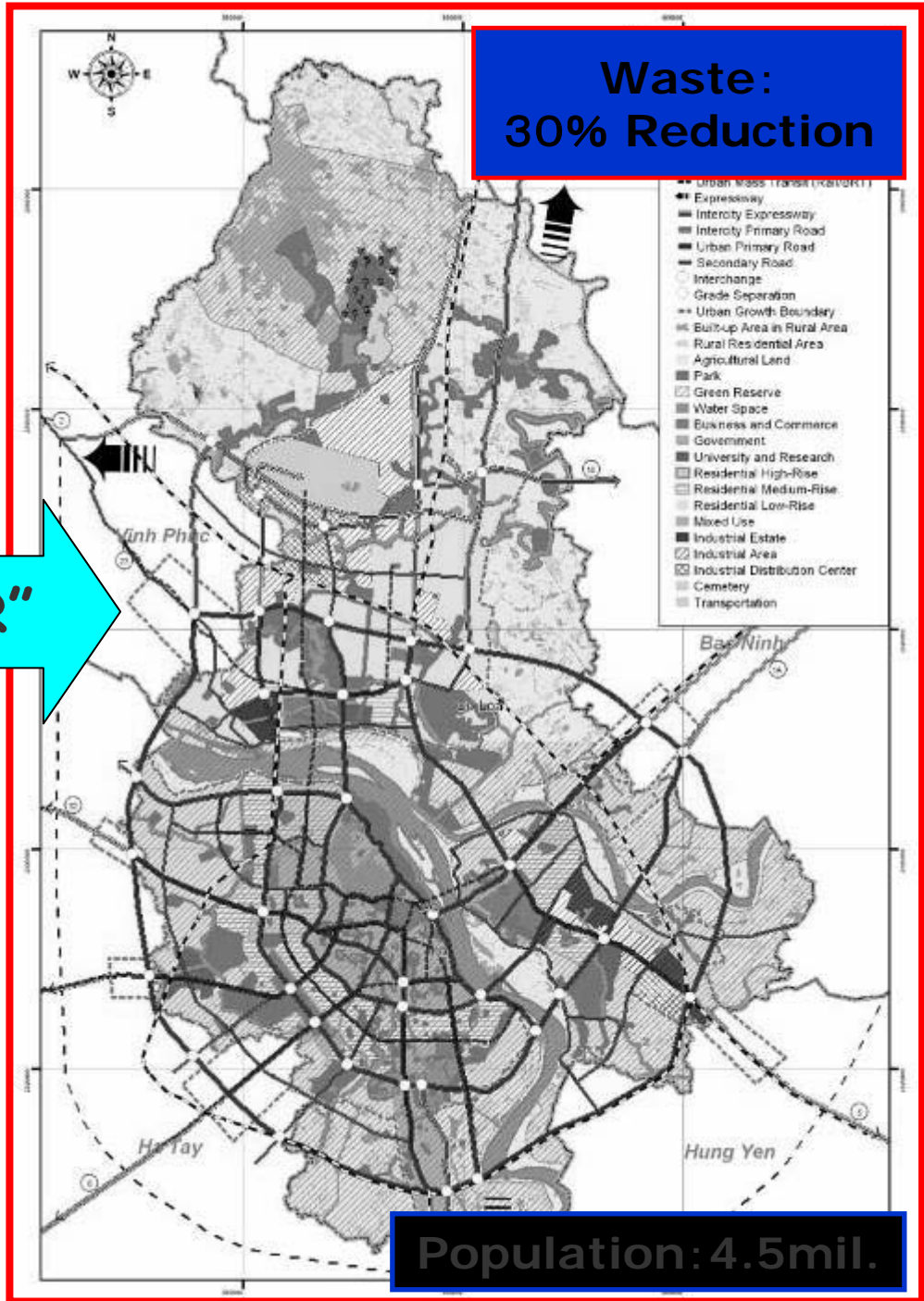
6000 t/year

Cau Dien Compost

Population: 3mil.

"3R"

Waste:
30% Reduction



Nam Son Landfill Site





Cau Diem Compost Plant

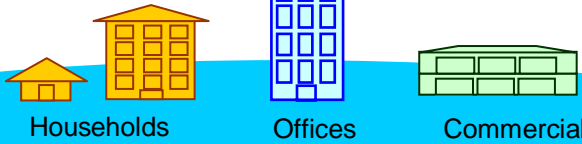
***Waste discharge on the pavement
and collection***



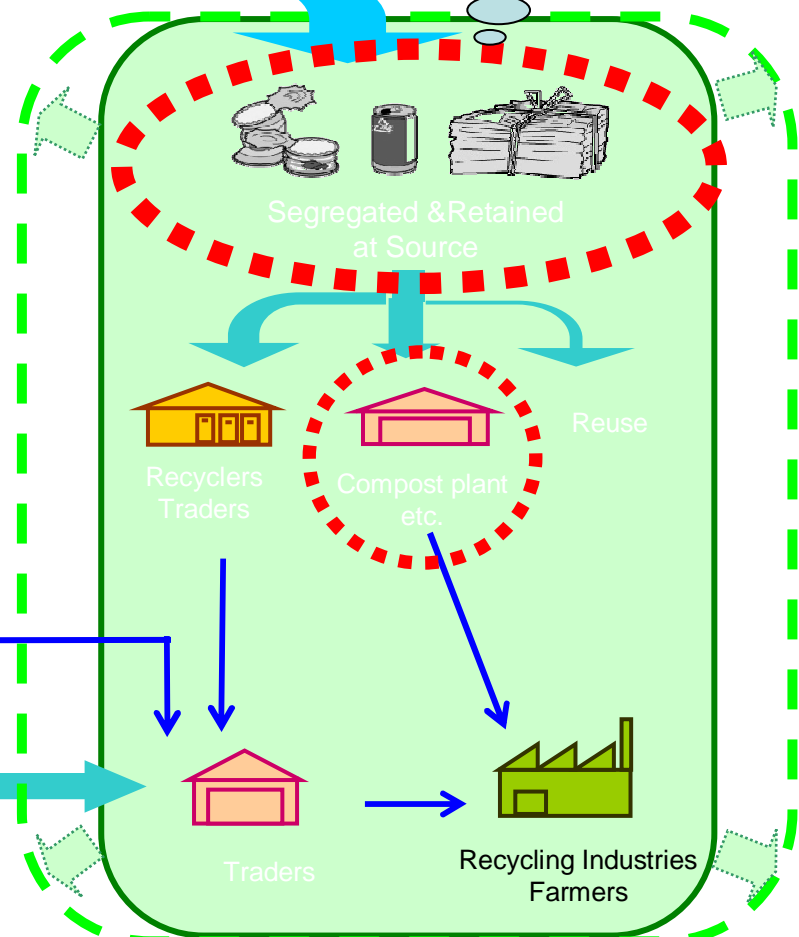
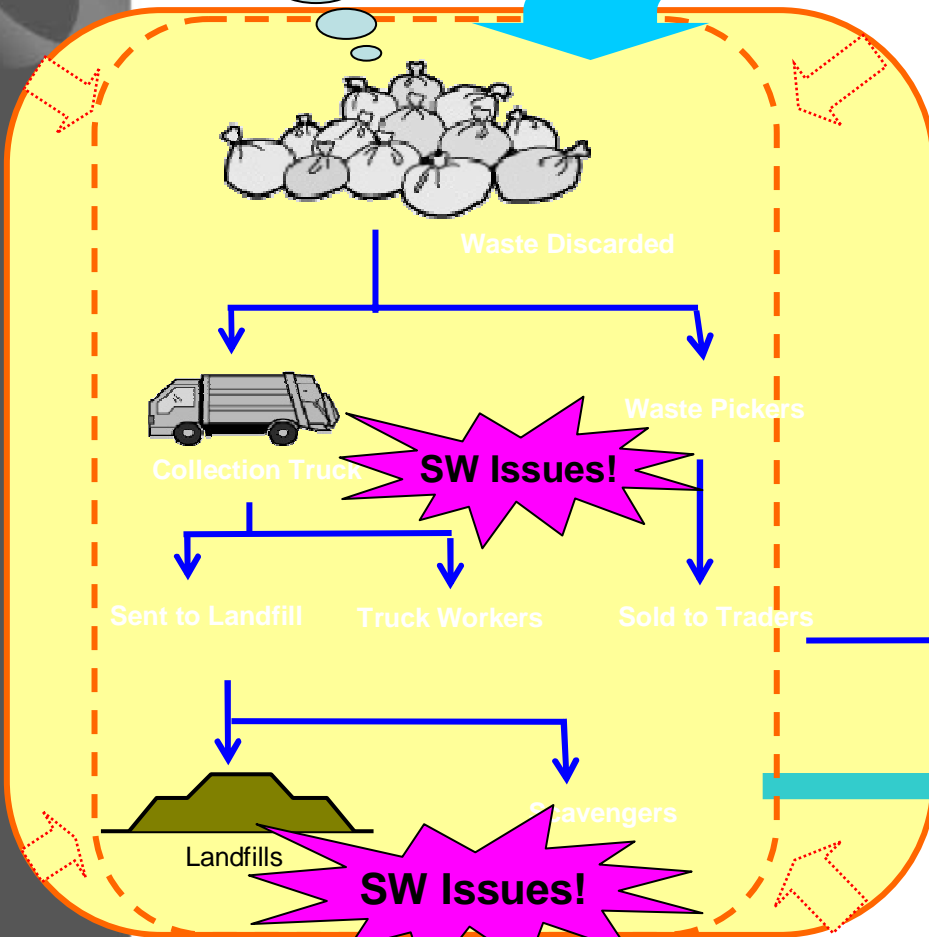
"3R" Society



Minimize waste amount through 3Rs!



Source Separation & Partnership!





"3R Stars"

HỘI NGHỊ CÁC NGÔI SAO 3R HÀ NỘI 3R STARS MEETING

Hà Nội, 11/10/2007



"3R Song"

DVD ca nhạc - Nhạc trẻ - Nhạc trẻ - Nhạc trẻ
Music DVD - Karaoke - Interview - Documentary film



Những ngôi sao
3R Hà Nội
Hanoi 3R stars



TV-CM on SS

TVCM-1: Dancing Collection Workers
TVCM-2: Singing Hanoi Citizens



www.3r-hn.vn



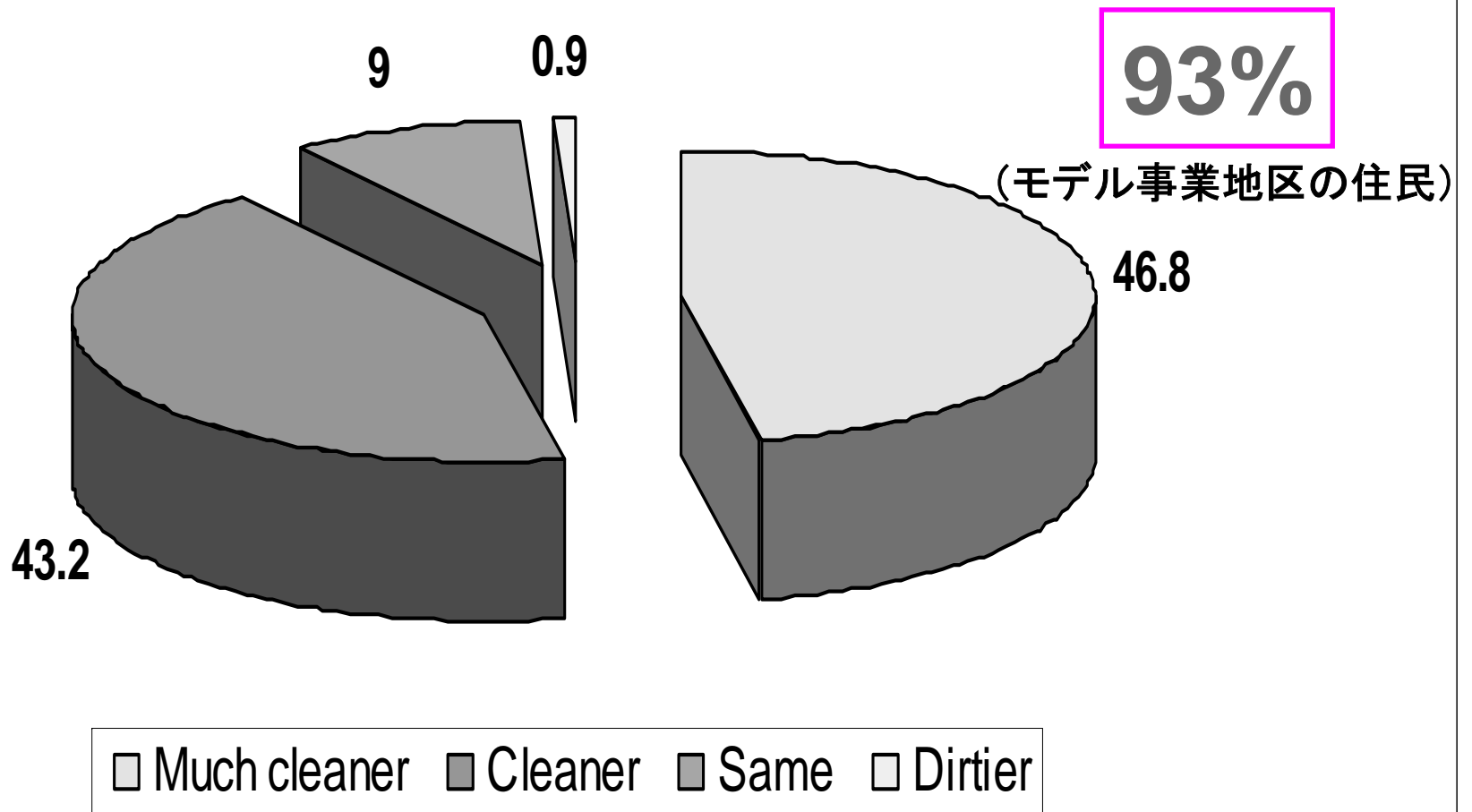
PTC:1800 hh
ND: 1824 hh

3R Supporters

(Youth Union)



Opinion of residents on sanitation after SS commencement



Sample nos: PTC/ 100, ND/100 residents
 (Source: 3R-HN PMU, Sept. 2007)

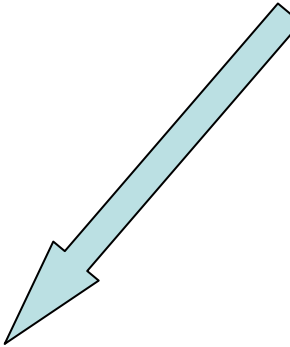
Compost Improvement (Cau Dien)



Waste Receiving



Manual Separation



Fermentation



Compost products



70%



90%

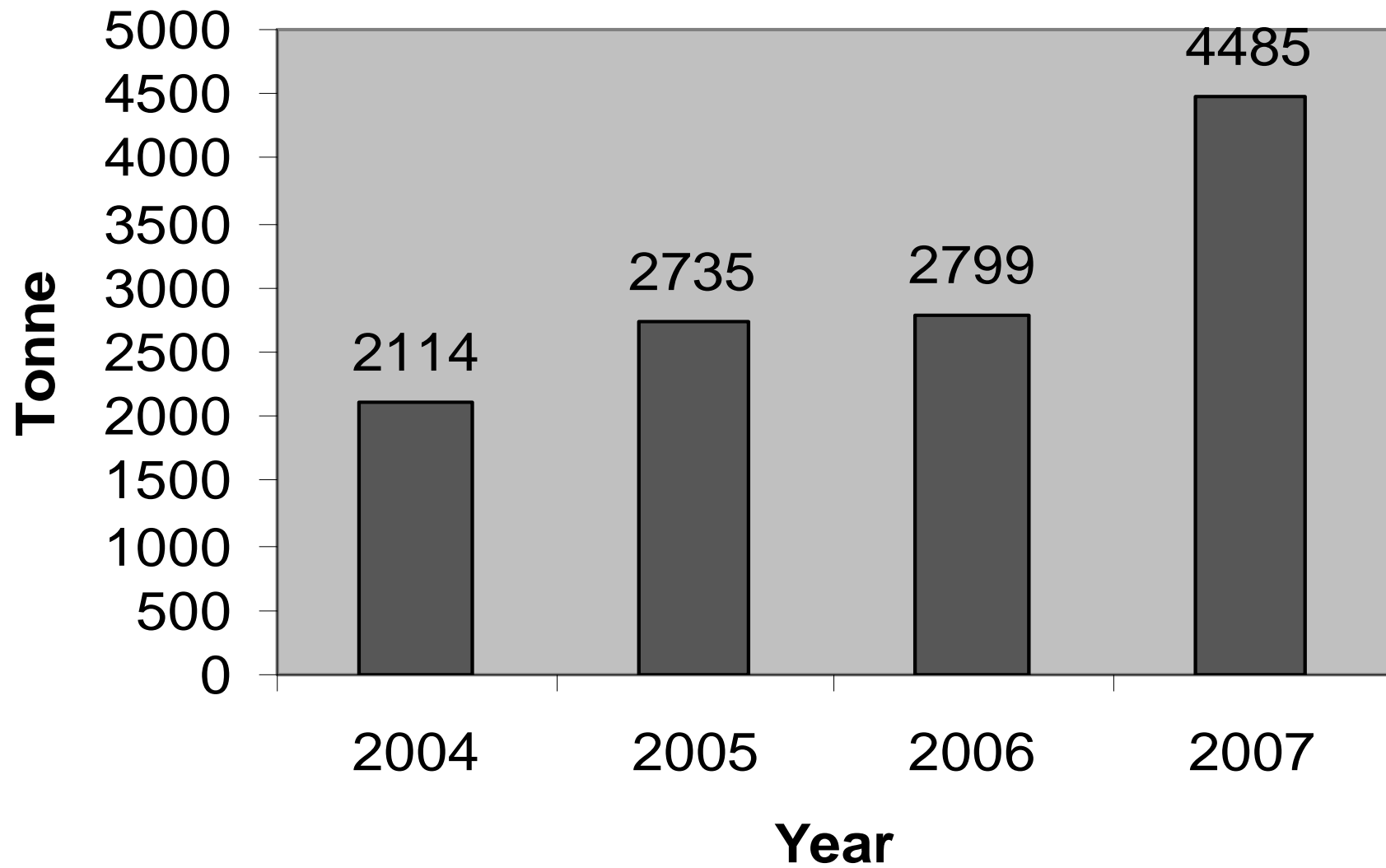
Agro Viet 2007



Golden Cup



Sale of compost



Source: Sales Dept. Hanoi URENCO

JICA Environmental
Education on "3R"



RUNG THỰC VÀ CHĂM NGOAN
XÂY DỰNG ĐỜI SỐNG MẠNH
CÙNG TIẾN BƯỚC LÊN ĐOÀN.

"...Non sông Việt Nam trở nên tươi đẹp hay không, dân tộc Việt Nam có bước tới
đài vinh quang để sánh vai với các cường quốc năm châu được hay không, đó
chính là nhờ một phần lớn ở công học tập của các em..."
HỒ CHÍ MINH

3R
Reduce / Giảm bớt
Reuse / Tái sử dụng
Recycle / Tái chế

Hãy phân loại rác
để tái chế và tái sử dụng
để bảo vệ môi trường sống
LIÊN KẾT SẠCH SẼ

TRƯỜNG TIỂU HỌC THẠNH THỊNH

HÃY PHÂN LOẠI RÁC
VÌ ĐÓ LÀ TÀI NGUYÊN QUÝ BÍ,
NẾU BẠN YÊU CUỘC SỐNG,
HÃY CÙNG NHỮNG CHUNG SỨC
LIÊN KẾT SẠCH SẼ

3R
Reduce / Giảm bớt
Reuse / Tái sử dụng
Recycle / Tái chế

Hãy phân loại rác
để tái chế và tái sử dụng
để bảo vệ môi trường sống
LIÊN KẾT SẠCH SẼ

3R-HN

Hãy phân loại rác
để tái chế và tái sử dụng
để bảo vệ môi trường sống
LIÊN KẾT SẠCH SẼ

RÁC BỤI ĐÓ

Hãy phân loại rác
để tái chế và tái sử dụng
để bảo vệ môi trường sống
LIÊN KẾT SẠCH SẼ



Mottainai Fair



Thank You Very Much!!



For a better tomorrow for all.
Japan International Cooperation Agency

