

The Second Meeting of High-Level Political Forum
on Sustainable Development
New York, 7 July 2014



3Rs and resource efficiency policy towards sound material cycle society

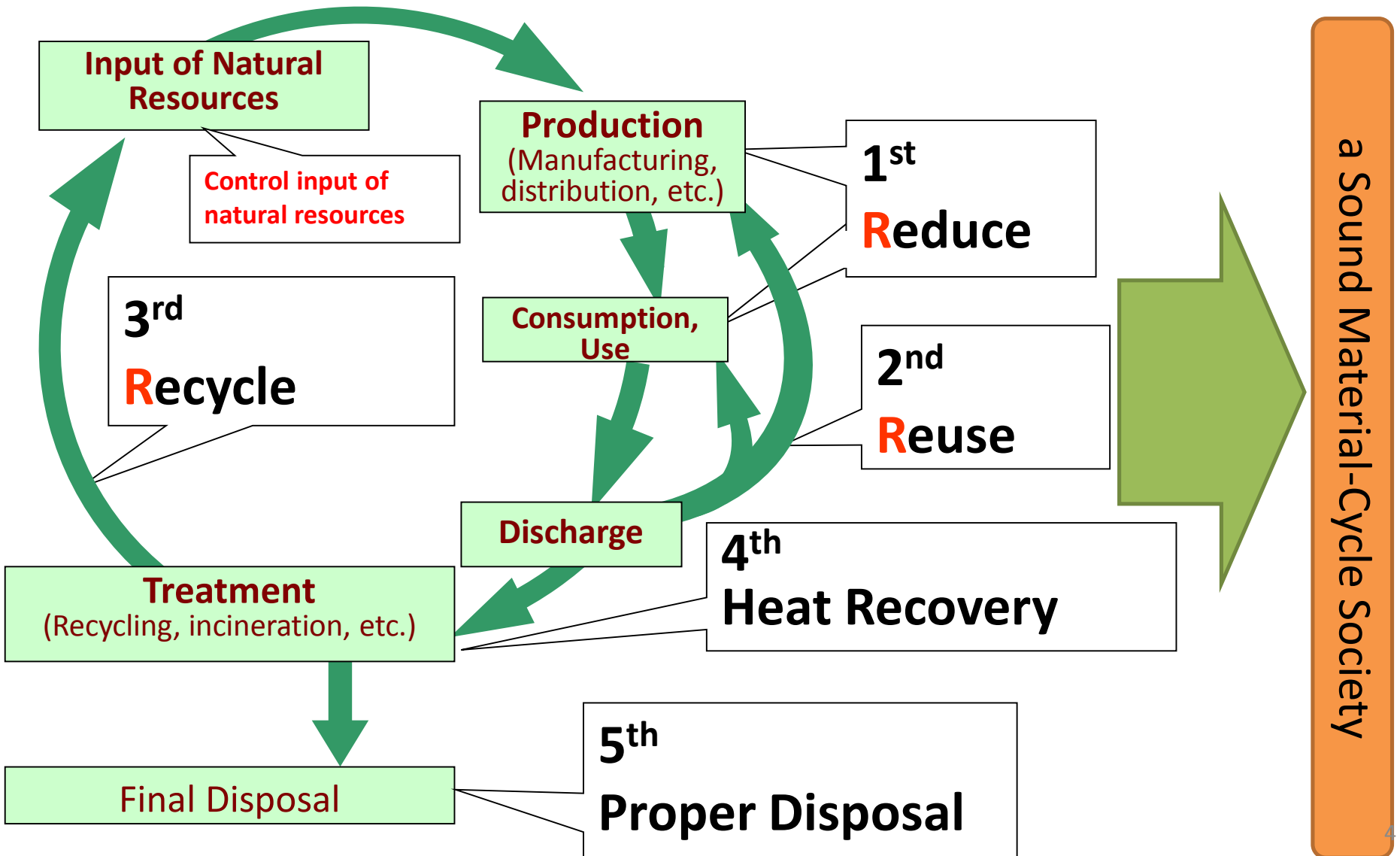
Mr. Shinji Inoue
Parliamentary Senior Vice-Minister
of the Environment, Japan

Content

- Progress towards Sound Material-Cycle Society
- Cooperation on 3R and Waste Management Policies

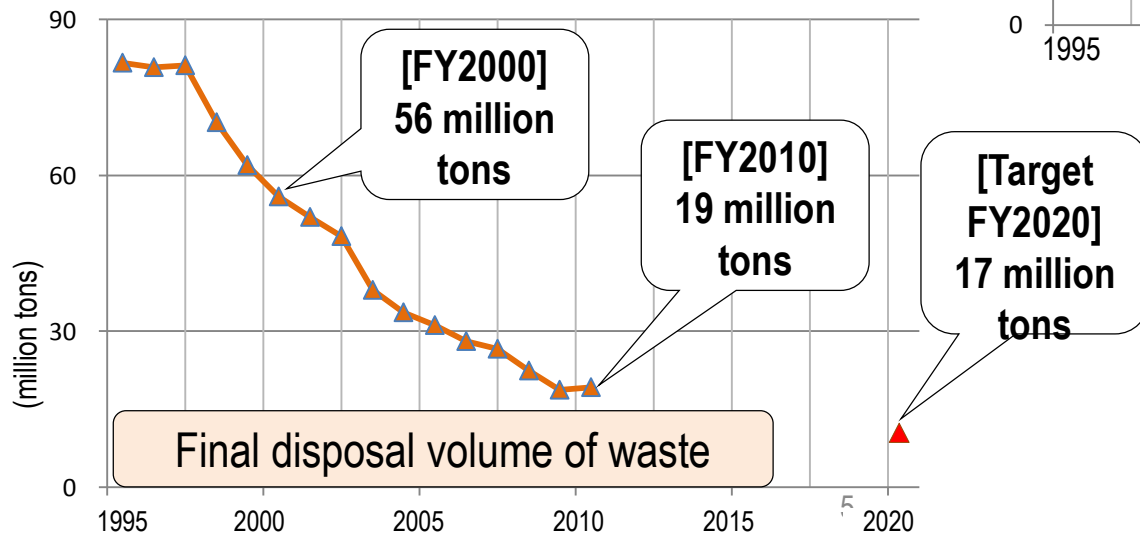
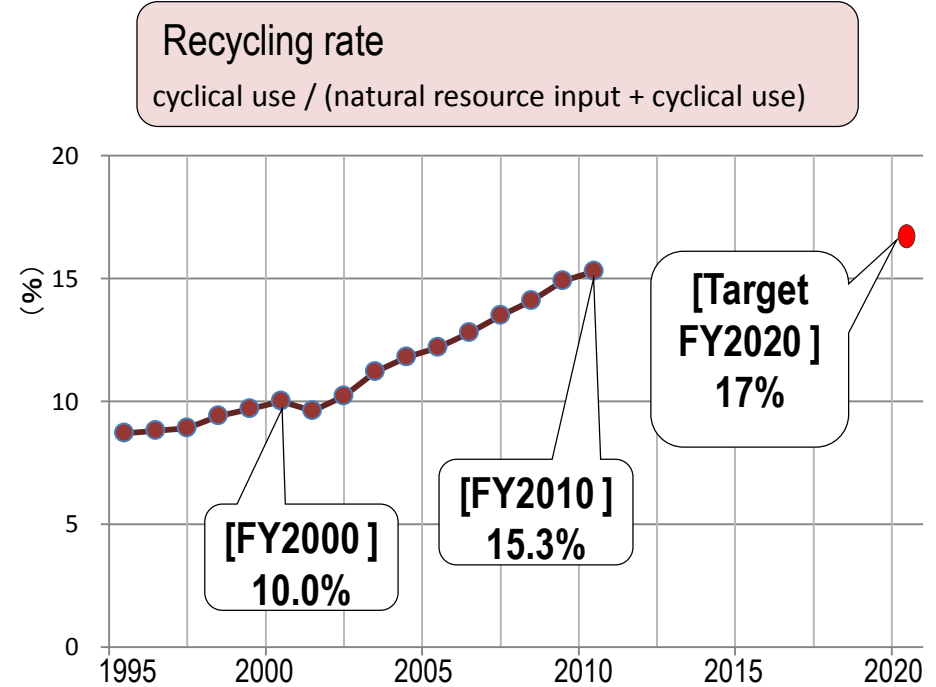
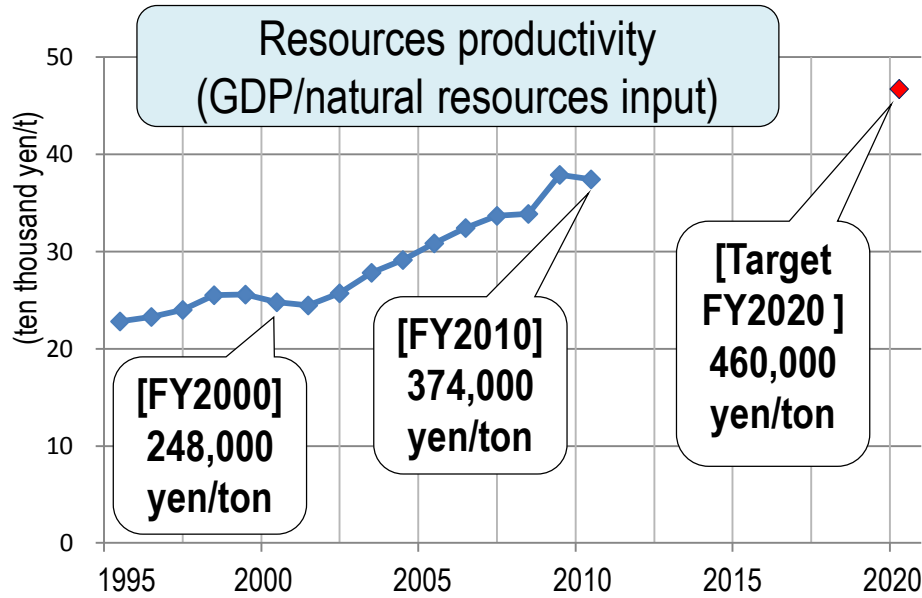
Progress towards Sound Material-Cycle Society

The Concept of a Sound Material-Cycle Society



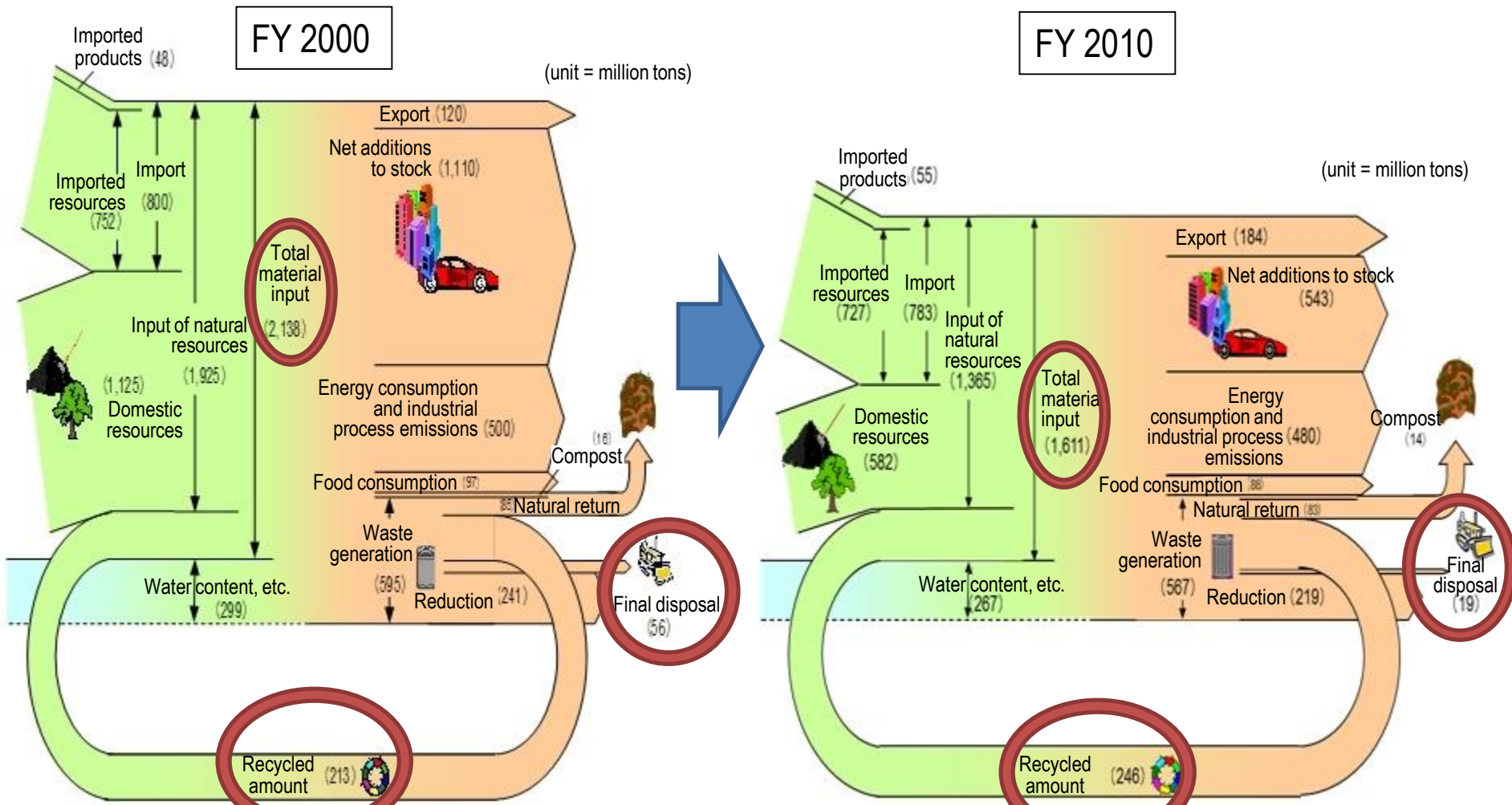
Japan's progress towards establishing a Sound-Material Cycle society

– changes in major indexes and goals targeted by the 3rd Fundamental Plan –



Material Flow of Japan

- Total material input: 2.138 → 1.611 (billion tons)
- Final disposal: 56 → 19 (million tons)
- Recycled amount: 213 → 246 (million tons)



(Note) Water content: water contents of wastes (sludge, livestock's waste, night soil, waste acid, waste alkali, and sludge contingently dumped in the process of economic activities (sludge in mining, construction and in waterworks as well as slag)

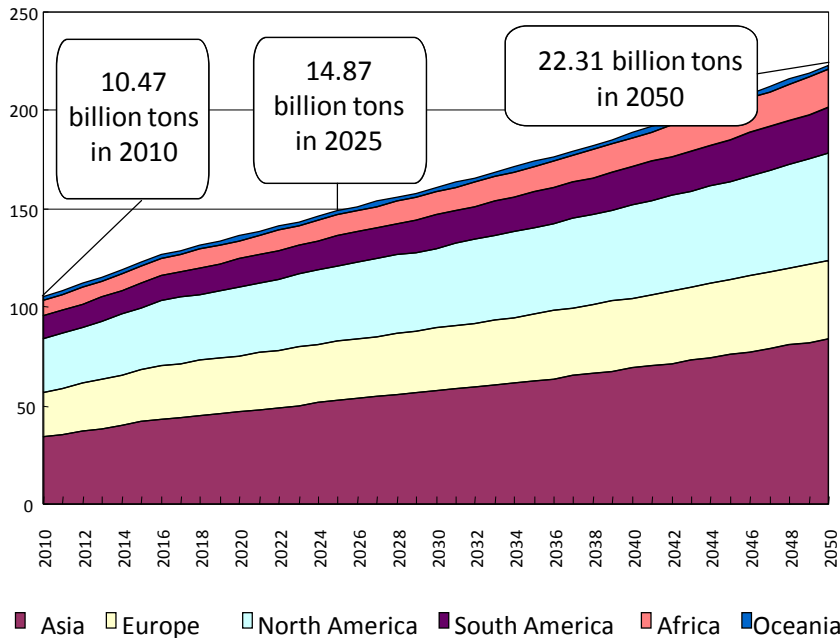
Cooperation on 3R and Waste Management Policies

Critical Waste Problems in Asia

- ◆ In line with the economic growth and population increase, mainly in Asia, the amount of waste generation has been increasing worldwide, the quality of waste diversifying as well. The global waste generation is expected to more than double in 2050, compared to the 2010 level.
- ◆ In developing countries, cases of environmentally inappropriate disposal/recycling have been reported.

[Estimated Total Waste Generation Worldwide (2010 - 2050)]

(unit: 0.1 billion tons)



Environmental pollution caused by inappropriate recycling in developing countries

A process of open burning of covered cables to recover copper wires for recycling



A person collecting valuables from open dumping site

Source: Japan Industrial Waste Information Center



Source: *Studies on Estimated Amounts of Waste Generated in the World and Future Prospects*, by Masaru Tanaka

Roles Model for cooperation

Examples of cooperation

Japan

Government

Asia and the Pacific

Government

Development of regulations and standards.

Municipalities

**Management plans.
Contract procurement process.
Public awareness.**

Municipalities

Private Corporation

**Technologies.
Operations.**

Private Corporation

City-City Cooperation

Japan-side

City of Kitakyushu

Project Management

IGES

Kitakyushu Asian Center
for Low Carbon Society



Green Sister City (Nov. 2012)

Indonesia-side

City of Surabaya

**Development Planning
Bureau (BAPPEKO)**

Cooperation Div.

Energy sector

**NTT DATA Institute of
Management
Consulting Inc.**

NTT Facilities Inc.
Fuji Electric Co., Ltd.
Nippon Steel & Sumikin
Engineering Co., Ltd.
AT GREEN Co., Ltd

Energy saving and
dispersed power
system for buildings



Dept. of Construction,
Institute of Technology
Surabaya (ITS), office
buildings, hotels,
city hall, universities,
hospitals, shopping malls

Cogeneration
technology



PT SIER, PT PIER, local
companies, National
Electricity Company (PT
PLN), gas companies

Transportation sector

CNG vehicles for buses and taxis, promotion of CNG
vehicles by supporting and maintenance systems

ALMEC Co., Ltd.

Toyota Tsusho Electronics
(Thailand) Co., Ltd.,
R & Sport Development Co.,
Ltd.
Japan Automobile Research
Institute



Ministry of Transport,
Ministry of Energy and
Mineral Resources (ESDM),
Dept. of Transportation
(DisHub), bus and taxi
companies, CNG station
operators (ESDM, PT CNE)

Solid waste sector

Cooperation:
Nishihara Co., Ltd.

Waste sorting,
recycling,
composting



Dept. of Cleanliness and
Landscaping (DKP),
Environment Dept. (BLH),
fertilizer company (PT
Petrokimia)

**Hitachi Zosen
Co., Ltd.**

Waste-to-energy
(incineration)



Ministry of Energy and Mineral
Resources (ESDM), Ministry of
Public Work, Ministry of
Environment, Dept. of
Cleanliness and Landscaping
(DKP), landfill management
company (PT Sumber Organik)

Amita Co., Ltd.

Waste-to-energy for
industrial waste



Ministry of Environment,
Dept. of Industry, local
companies,
cement companies (PT Semen
Indonesia), paper producing
companies

Cooperation:

Findings of other projects in Surabaya funded by other sources were shared to this project. 10

Incubation and Overseas Promotion of Waste Management and Recycling Industry



Regional 3R Forum in Asia and the Pacific

Oct 2008 **East Asia Summit Environment Ministers Meeting
(Vietnam)**

Japan proposed the establishment of “Regional 3R Forum in Asia”

Nov 2009 **Inaugural meeting, in Tokyo; from 15 countries**

Oct 2010 **2nd, in Malaysia; from 22 countries**

Oct 2011 **3rd , in Singapore; from 23 countries**

Mar 2013 **4th, in Vietnam; from 31 countries
“Hanoi 3R Declaration”**

Feb 2014 **5th , in Indonesia; from 33 countries
“Surabaya 3R Declaration”**

the Regional 3R Forum in Asia and the Pacific

* Renamed from 5th Forum meeting

All the Forums are co-organized with Japan, a host country and UNCRD

Ha Noi 3R Declaration

- Sustainable 3R Goals for Asia and the Pacific for 2013-2023

**Adopted at the Fourth Regional 3R Forum in Asia, 18 -20 March 2013, Ha Noi, Viet Nam
(more than 300 participants from 30 Asia-Pacific countries)**



- Expression of our resolve to voluntarily develop, introduce and implement policy options, programmes, and projects towards transitioning to a resource efficient and zero waste society.
- a legally non-binding and voluntary document

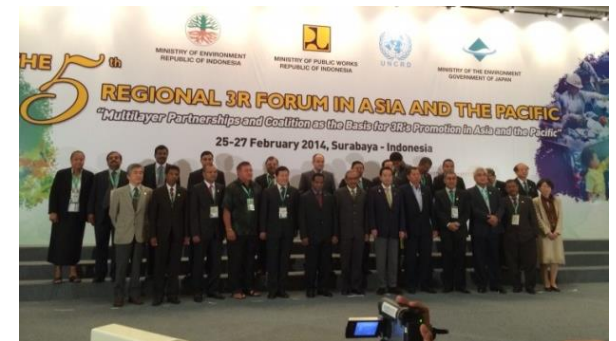
Consisting of 33 goals under the following areas:

- I. 3R Goals in Municipal/Urban areas (4 Goals)
- II. 3R Goals in Industrial Areas (5 Goals)
- III. 3R Goals in Rural/Biomass Areas (2 Goals)
- IV. 3R Goals for New and Emerging Wastes (5 Goals)
- V. 3R Goals for Cross-cutting Issues (17 Goals)



The 5th Regional 3R Forum in Asia and the Pacific

- Hosts** : Ministry of the Environment of Japan ,Ministries of Environment and Public Works of Indonesia, United Nations Centre for Regional Development (UNCRD)
- Period** : February 25-27, 2014
- Place** : Surabaya, Indonesia
- Participants** : Approximately 500 people from 33 countries in Asia and the Pacific, cities, international organizations, etc.
- Theme** : Multilayer Partnerships and Coalition as the Basis for 3Rs Promotion in Asia and the Pacific
- Outcome** : Surabaya 3R Declaration
- Side event** : Indonesia-Japan International 3R Exhibition



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