

INDONESIA COUNTRY REPORT ON HA NOI 3R DECLARATION PROGRESS

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OUTLINE

1. Introduction
2. Update Regulations (New Policy)
3. Current Status of 3R Implementation
4. Challenges and Strategy



THE REPUBLIC OF INDONESIA

A BRIEF INTRODUCTION



Location: 6°08' N and 11°15' S, and between 94°45' E and 141°05' E

Total Area: 5.193.250 sq km

- Land: 1.922.570 sq km
- Water: 3.257.483 sq km

Coastline: 54,716 km

Expanse Area: 3,977 miles

Number of Registered Island: 13,466

Population: Total: 253,609,643 Annual growth: 1,2%

Ethnic Group: 1,340

GDP (2014): USD 916 billions

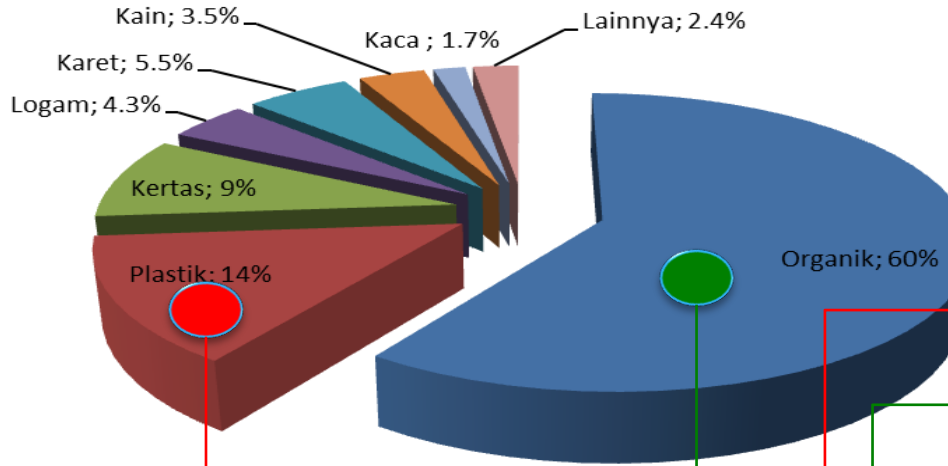
per capita: USD 3,631

Growth (2010 – 2013): 6,15% annually

34 Provinces and 514 cities

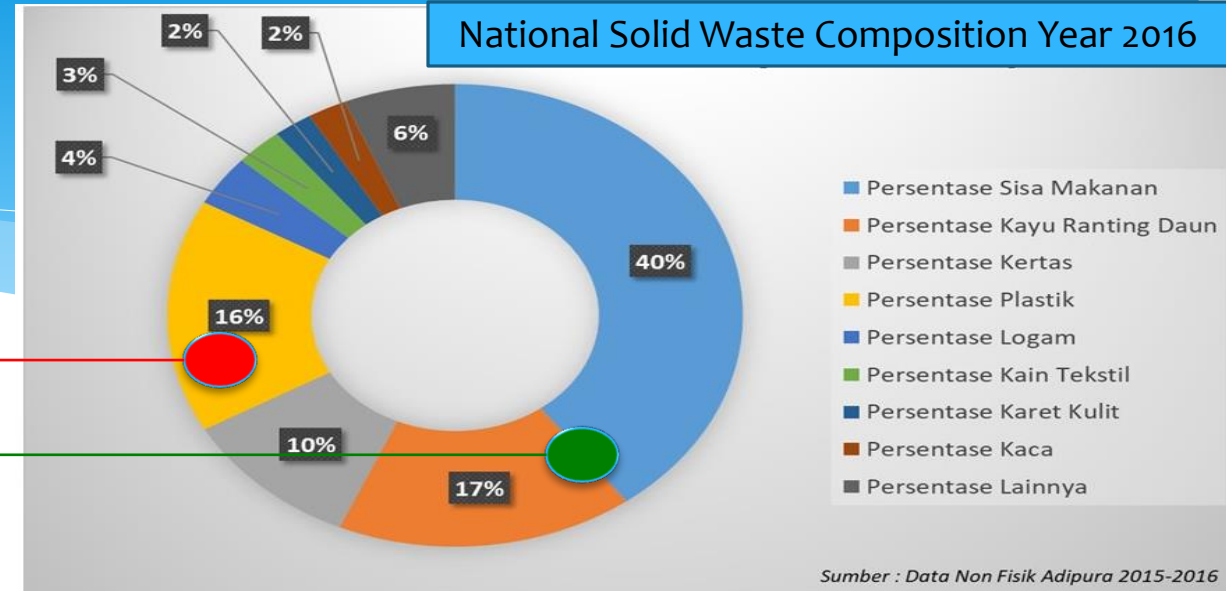
National Solid Waste Profile

National Solid Waste Composition Year 2013



Source: Adipura Secretariat, 2013

National Solid Waste Composition Year 2016

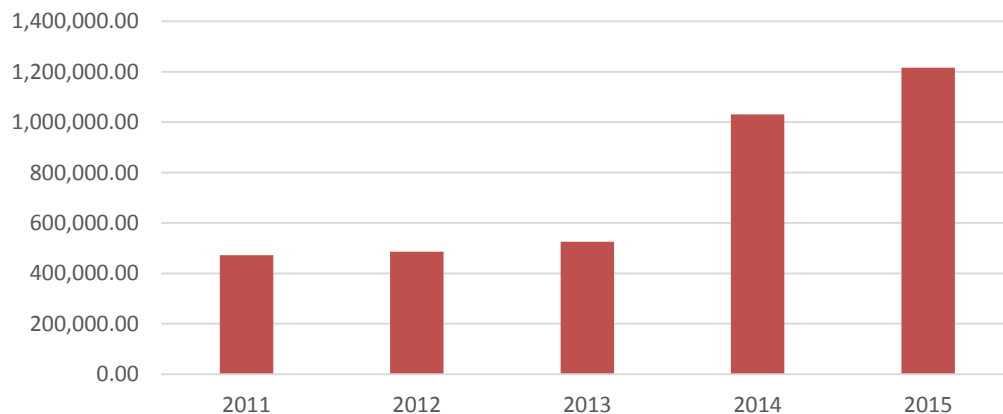


Sumber : Data Non Fisik Adipura 2015-2016

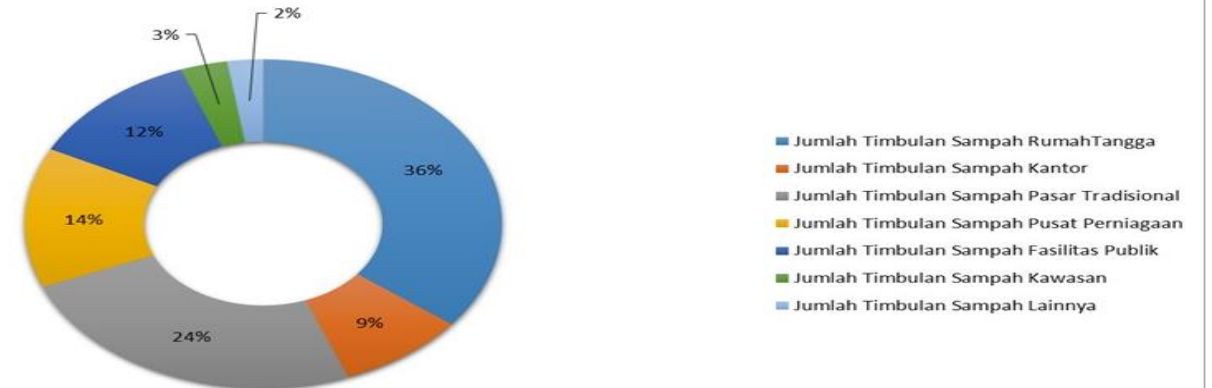
Changing of Solid Waste Composition:

- Organic waste: 60% (2013) → 57% (2016)
- Plastic Waste: 14% (2013) → 16% (2016)

Plastic Waset Profile in 22 Cities In Indonesia



Sources of Soid Waste



Sumber : Data Non Fisik Adipura 2015-2016

Update Policy and Regulations

Policy and Regulation

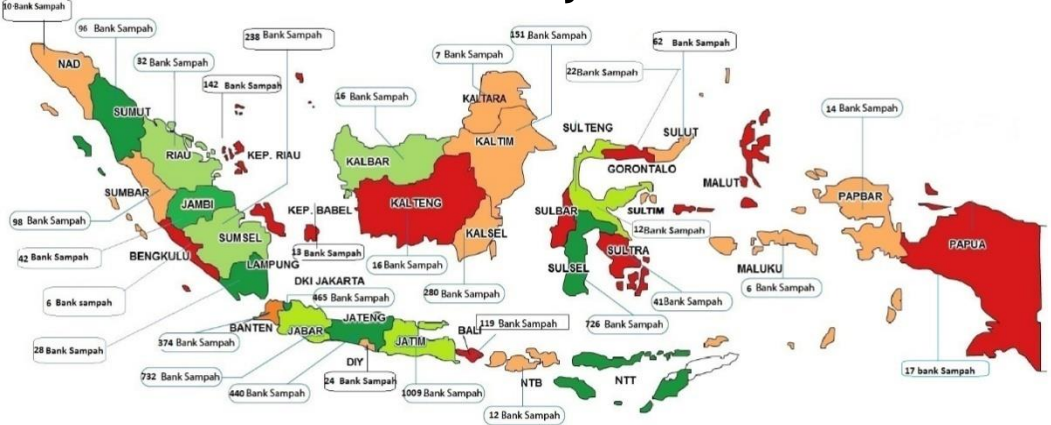
- Law No. 18/2008 concerning SWM
- Law No. 32/2009 concerning environmental protection & management
- Law No. 3/2014 concerning industry
- Government Regulation No. 81/2012 concerning household solid waste & household-like solid waste management
- Government Regulation No. 101/2014 concerning Hazardous Waste Management
- Presidential Regulation No. 185/2014 concerning acceleration of water supply & sanitation
- **Presidential Regulation Number 97 Year 2017 regarding National Strategy and Policy on Solid Waste Management**

Programs

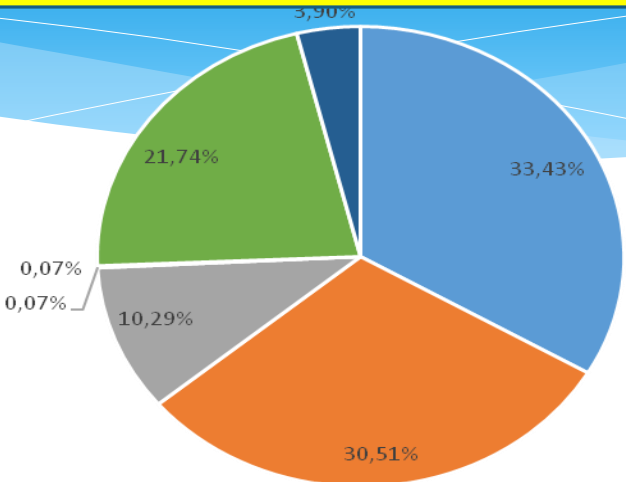
- Clean City Program (Program Adipura)
- 3R through the WasteBank Program
- Green Infrastructure Program by providing solid waste treatment facilities (Recycle Centre, Waste Bank, solid waste transportation and technologies)
- Promoting & implementing green industry through resource efficiency & cleaner production program
- Pilot Project on 3R program in Balikpapan and Palembang – JICA Project
- RDF program of solid waste management in the cement kiln in Cilacap, Central of Java – DANIDA Project
- Biodigester Program to handle organic waste from traditional market in Jambi and Malang District – UNESCAP Project
- *Technical and Financial Support for Green Industry Certification*

SW HANDLING IN WASTE BANK

The Implementation of 3R Program of Solid Waste Management through the Waste Bank to Promote Resource Efficiency and Circular Economy

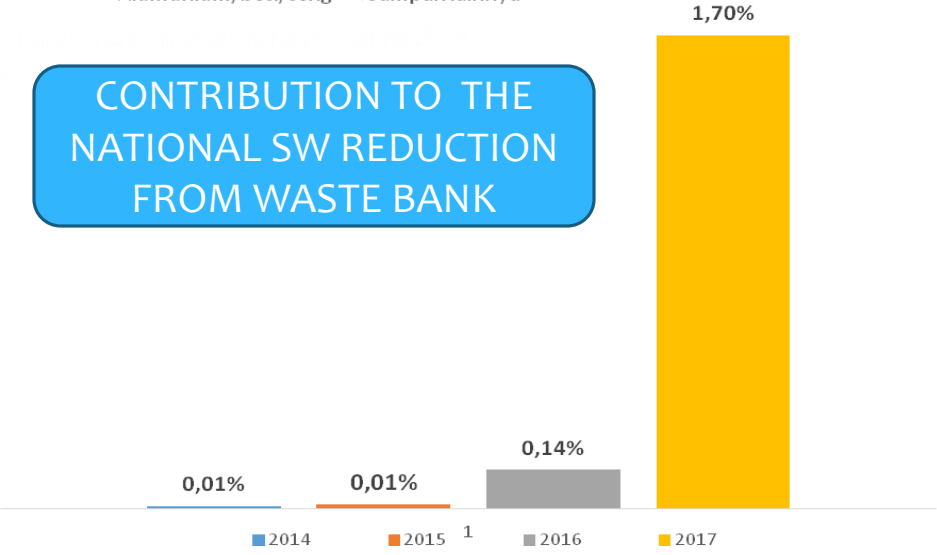


Total Waste bank 5,244 in 34 provinces and 219 cities Indonesia

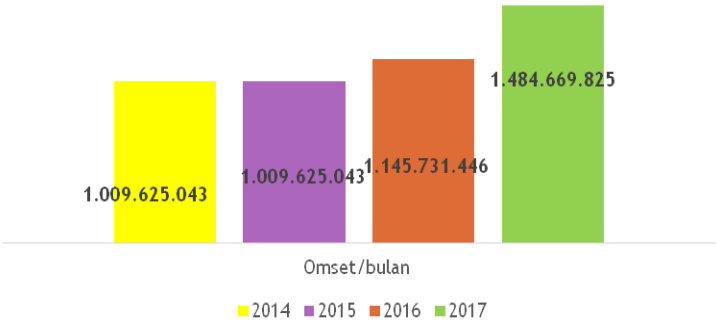


■ Kertas ■ Botol Plastik ■ Botol non plastik /kaca ■ Kaleng
■ Alumunium/besi/seng ■ Sampah lainnya
■ Logam

CONTRIBUTION TO THE NATIONAL SW REDUCTION FROM WASTE BANK



Circular Economy



- Create social engineering of sorting process to implement R3 program in the community
- Waste reduction from the sources
- Need more time and excellent methode to make this program massive in Indonesia

Resource Efficiency and Circular Economy Mechanism of SWM

Sorting in the community

CIRCULAR ECONOMY

RESOURCE EFFICIENCY



Recycle Material



Waste Bank



Recycle Industries



Organic Waste



Recycle Centre

Composting



- Organic Fertilizer
- Back filling material in the final treatment facilities (TPA)



Residue

Urban Farming

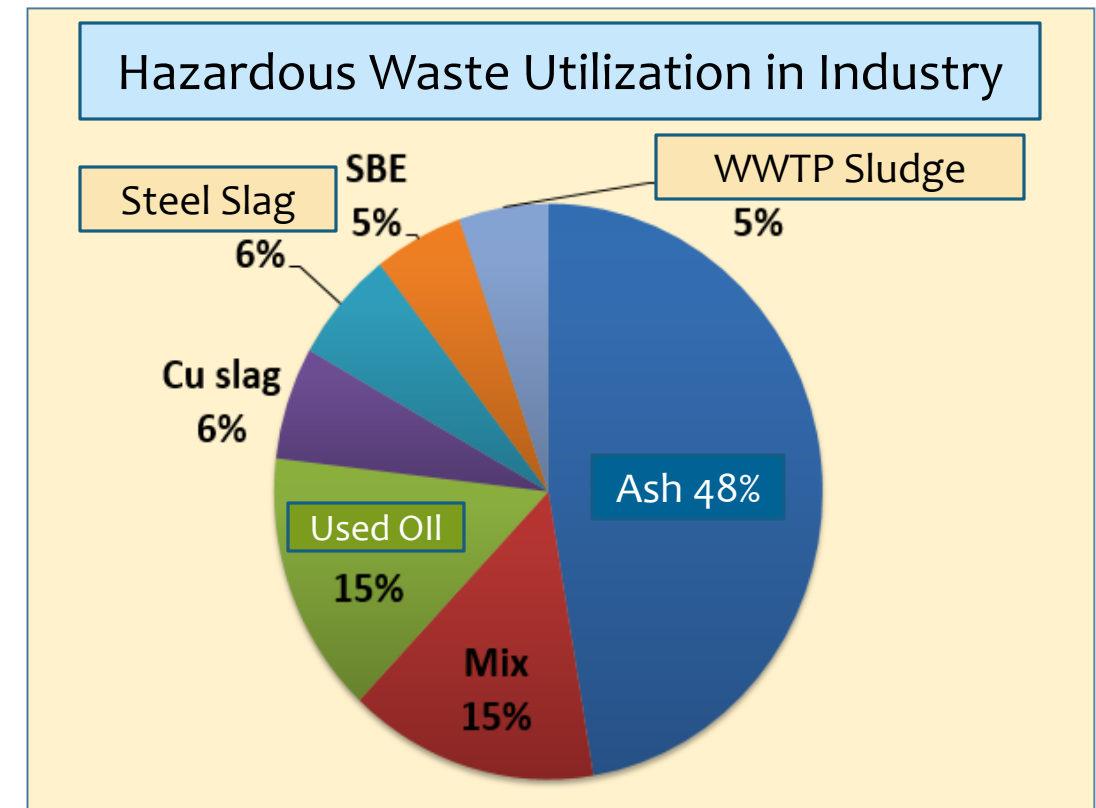
Final Treatment Facilities (TPA)

Methane Capture for WtE

Achievement of 3R program in Year 2017

- ❑ Waste handling in 360 cities is 67% (14,217,733 ton)
- ❑ Solid waste reduction by:
 1. Development of 5 recycle center with capacity 10 ton per day in tourist destination (9,062.50 ton of SW)
 2. Urban farming with the capacity of 0,5 ton per day (1,822. 20 ton of SW)
 3. Waste bank with capacity of 1 ton per day (9,045.50 ton of SW)
 4. Implementation of EPR by producents and modern retail (50 ton in 73 cities)
- ❑ Total of hazardous waste utilization as fuel alternative in industries 205,895.64 ton (81,7%) from the target of 250 ton
- ❑ Total of hazardous waste and non-hazardous waste utilization for raw material alternative in industries of 6.687.225,08 ton (99,1%) from the target of 6.75 million ton

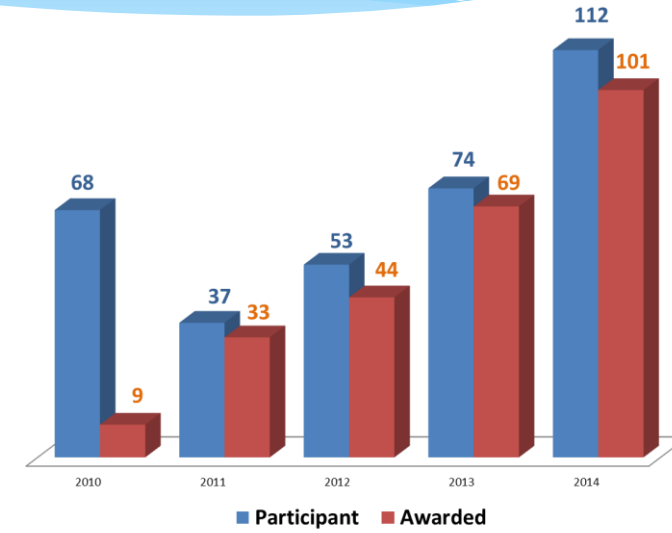
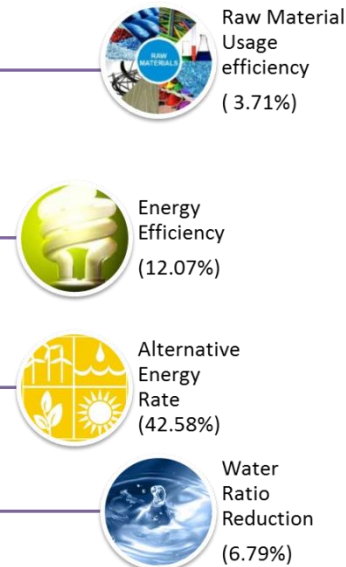
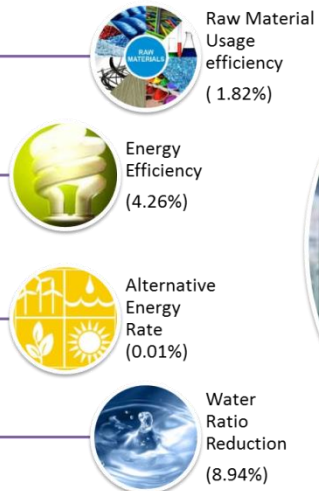
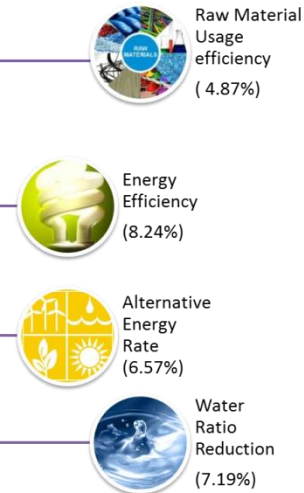
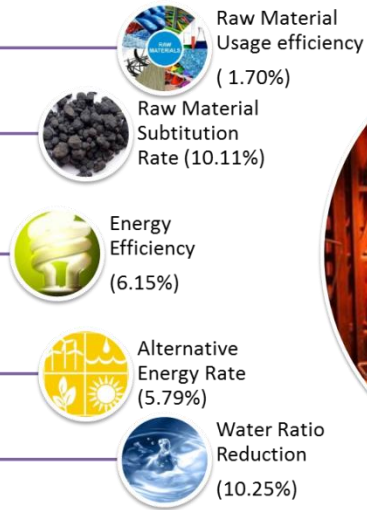
The Implementation of 3R Program in Industries to Promote Resource Efficiency



3Rs Program in Industrial Sector

GREEN INDUSTRY AWARD

IMPACT TO MANUFACTURING INDUSTRY PERFORMANCE



The award is given to the industry that has contribution to country's economy, benefit the community and participate in preserving the function of the environment through efficient resource utilization and application of environmentally friendly production processes

- #### ASPECTS TO BE EVALUATED
- Production Process (70%)
 - Waste / Emissions Management Performance (20%)
 - Company Management (10%)

CHALLENGES AND STRATEGY

CHALLENGES

- ❑ Increasing of public awareness is a need to manage waste from the sources
- ❑ Need more participation from all stakeholder to manage the waste integratedly from the up to the down stream
- ❑ Strong leadership of Local Government
- ❑ Improve of controlling and law enforcement
- ❑ Bottleneck on coordination and collaboration among stakeholders
- ❑ Incentive and disincentive mechanism

STRATEGY

- ❑ Implementing national policy and strategy for solid waste management (JAKSTRANAS) as a masterplan for SWM with the target of SW in year 2025 reduction (30 percent) and SW handling (70 percent).
- ❑ Promoting and implementing resource efficiency, circular economy and energy recovery from waste.
- ❑ Enhancing partnership program between country to country on resource efficiency, circular economy and energy recovery from waste.



THANK YOU