

# **Integrated Solid Waste Management**

## **Assessment of Current Waste Management System and Gaps therein**

**&**

## **Target Setting for ISWM**

**United Nations Environment Programme  
Division of Technology, Industry and Economics**

International Environmental Technology Centre  
<[www.unep.or.jp](http://www.unep.or.jp)>

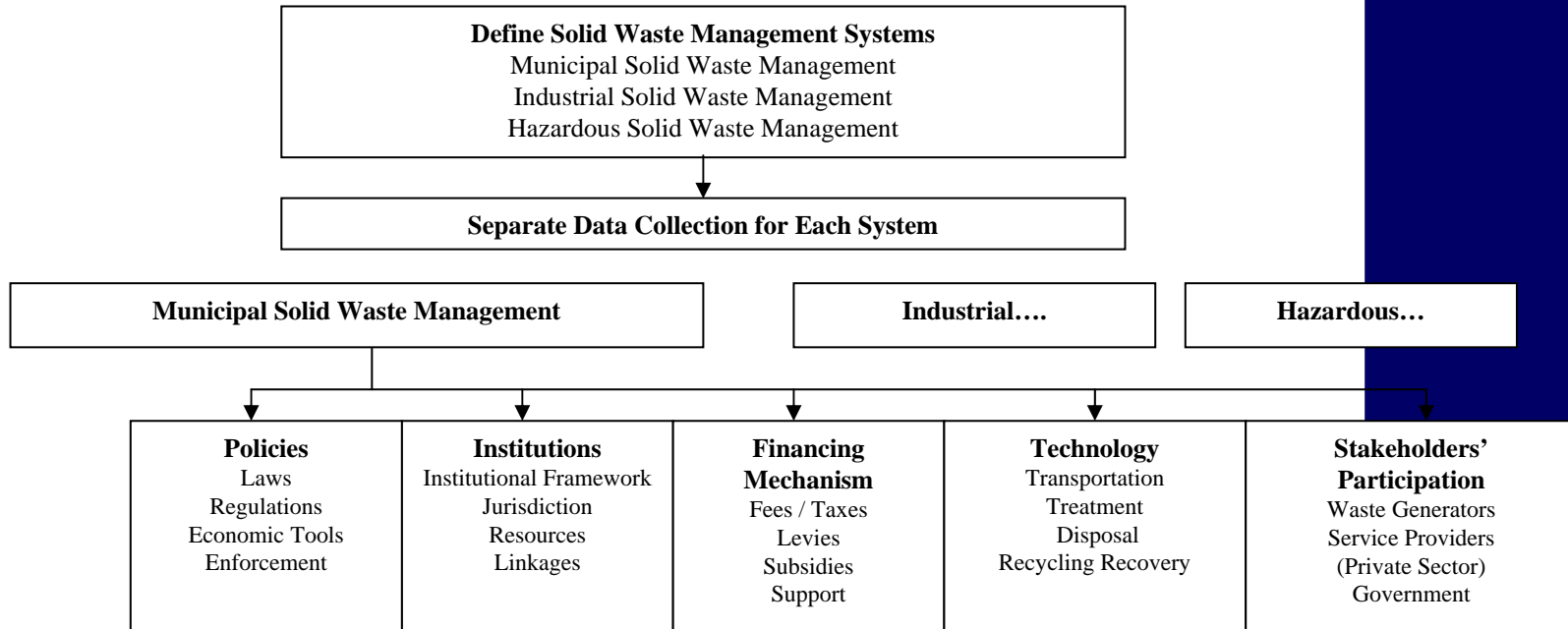


# Assessment of Solid Waste Management

Regulations	Institutions	Financial Mechanisms	Technology & Infrastructure	Stakeholder participation
Regulatory and economic policies for various waste streams / sources	Institutional framework, resources and jurisdiction to manage various waste streams / sources	Financing provisions including subsidies, levies, charges and private sector participation	Collection and transportation  Treatment and disposal  Recycling and recovery	Role of Waste generators  Role of private sector for waste management services and for recycling and recovery
Challenges and Opportunities				



# 2. Assessment of Waste Management & Gaps Analysis



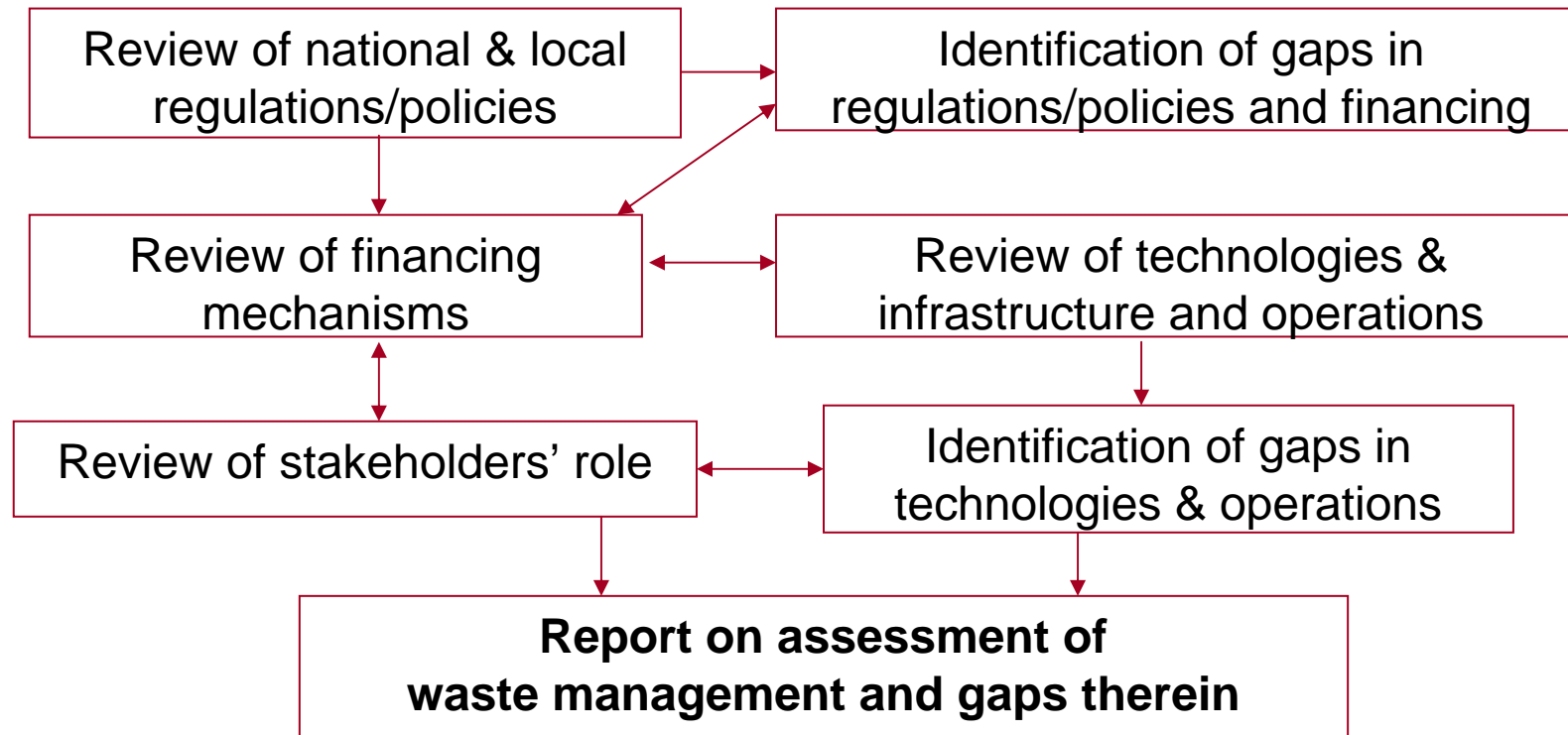
Source Reductions / "Upstream"
Primary Disposal by Waste Generators
Collection and Transportation
Treatment and Disposal
Reuse, Recycling and Recovery

3



# Assessment Report

Review of prevailing waste management system & practices



# Target Setting

Mission/Vision  
Statements

Social/Political  
Agenda

Statements related with Waste Management, Public Health,  
Environment, etc.

Draft of Quantitative & Measurable Targets for  
Short-term & Long-term

Stakeholders' Consultations

Targets



# Principles for Target Setting

- ❖ To achieve a harmonious development among economy, society and environment;
- ❖ To achieve a consistent development between the city and rural construction;
- ❖ To achieve an integrated planning and a reasonable layout;
- ❖ Comprehensive programming the near future and far future targets;
- ❖ High level of start point and high technology;
- ❖ Realization of minimization, resource recovery and un-harmful disposal;
- ❖ Realistic targets based on local/national situation.



# Qualitative Targets

## Near future objectives (2006-2010)

- ❖ Construct an initial ISWM model on solid waste administration;
- ❖ Construct 1-2 demonstrative living districts with ISWM model;
- ❖ Construct a complete system for municipal solid waste treatment and achieve municipal solid waste minimization, resource recovery and un-harmful disposal;
- ❖ Construct a complete system for industrial solid waste treatment and achieve the aims of circulation, resource reduction and safe disposal.

## Far future objectives (2011-2020)

- ❖ Construct a complete ISWM model on solid waste administration;
- ❖ Construct a modern system for municipal solid waste treatment, in which the urban and rural areas are considered together, the layout is reasonable and the resource is adequately utilized, realizing municipal solid waste minimization, resource recovery and un-harmful disposal of municipal solid waste;
- ❖ With the aim of ecological industry zone construction, construct the city as an ecological and modernized new city zone with a harmonious development among economy, society and environment.



# Quantitative Targets

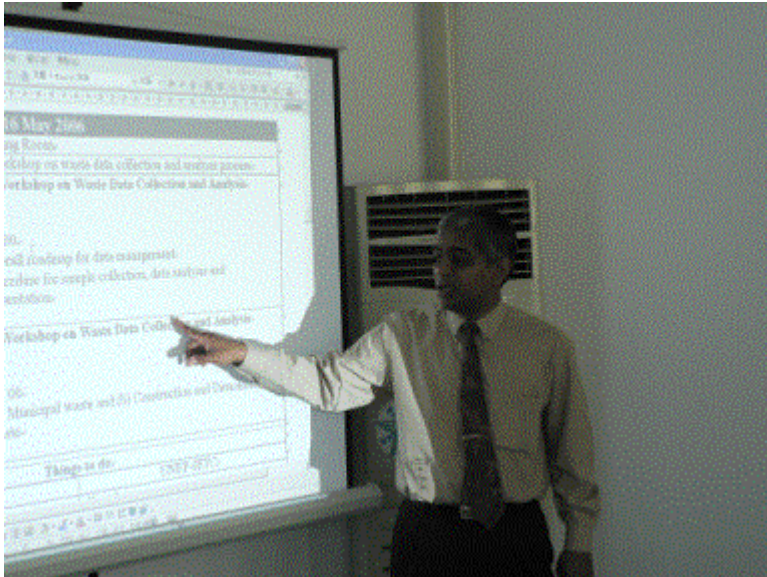
## Near future objectives (2006-2010)

- ❖ The collection rate of household solid waste by bag above 60%; the un-harmful disposal rate achieve 100%; reduction rate achieve 10%; resource recovery rate achieve 80%;
- ❖ Comprehensive utilization rate of industrial solid waste above 80%; safe disposal rate of hazardous, medical and radio waste achieve 100%;

## Far future objectives (2011-2020)

- ❖ Complete achievement of airtight treatment and disposal, minimization, resource recovery and un-harmful disposal at municipal solid waste disposal. The collection rate of municipal solid waste by bag above 90%; the un-harmful disposal rate achieve 100%; reduction rate achieve 50%, recovery rate achieve 90%;
- ❖ Comprehensive utilization rate of industrial solid waste above 85%; safe disposal rate of hazardous, medical and radio waste achieve 100%.





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**Thank You...**



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