

**HLS-ESC**

**Summary of the Thematic Session**

***Cities and Resource Efficiency and  
the 3Rs***

# Overview of the session

Chair: Ms. Yuyun Ismawati, Balifokus, Denpasar, Bali

## **Presentation 1: The Household Waste Problem (Jakarta)**

*Hon. Prof. Sylviana Murni, Mayor of Central Jakarta, Indonesia*

## **Presentation 2: Waste Minimization/ 3R and handling (Nagoya)**

*Mr. Tadashi Kudo, Environmental Affairs Bureau, Nagoya City, Japan*

## **Presentation 3: The role of the informal sector in solid waste management (Quezon City)**

*Ms. Mary Lealilah A. Rios, Quezon City Environmental Protection and Waste Management Department*

## **Presentation 4: Municipal solid waste management (Seoul)**

*Mr. Shin Shang Chur, Environmental Cooperation Division, Seoul, Korea*

## **Presentation 5: Environmental education at school and solid waste reduction including biogas at community level (Phnom Penh)**

*Mr. Chieal Ang, Department of Environment, Phnom Penh Municipality, Cambodia*

# Urbanization and increasing waste-related challenges for cities in Asia

- Rapid urbanization in Asia results in increasing amount of urban solid waste generation and increasing spending for waste management by local government.
- Most of developing Asia faces the increasing amount and high proportion of organic wastes as well as increasing ratio of non-degradable wastes.
- On the other hand, cities in rapidly urbanizing communities face increasing amount of non-degradable wastes such as plastic packaging and electronic wastes resulting in shortage in landfill.

# Opportunities of the 3R approach for urban solid waste management-1

- Increasing number of cities **aware of the importance of 3R approach** to reduce the pressure of urban solid waste management.
- They showed the **political wills and priorities in the 3Rs** for example by **setting targets and connecting local policies to national strategies** and regulations.
- **Jakarta sets 12% reduction** in urban solid waste from 2007 to 2012. **Nagoya set 20% reduction in landfill** in the 20<sup>th</sup> century with the baseline set in 1999. **Phnom Penh city also introduces 3R campaign.**

# Opportunities of the 3R approach for urban solid waste management-2

- The experience of Nagoya showed that the **3R approach** can contribute to significant **reduction in amount of final treatment, associated costs, and increase in resource recovery.**
- **Biogas generation** from organic waste streams can be considered as a **decentralized approach for organic waste management** and substituting unsustainable **source of energy** for less developed rural areas.
- Better collection and processing systems of post-consumed products such as **electronic and electric wastes**, can be an efficient **source of precious metals** such as gold, platinum, or palladium and also can contribute to **green design, job creations, economic benefits, and CO2 reduction.**

# Importance of partnership/ multi-stakeholders approach

- For the successful implementation of the 3R approach and waste segregation in cities, **partnership approach /multi-stakeholders engagement** is an essential key.
- This needs **continuous efforts and supports from city government** to engage and communicate with citizens and other stakeholders.
- **Awareness campaign** need to be follown up with the provision of **necessary enabling system**. So the behaviour of people will change accordingly.
- The **careful engagement of informal sector** to MSWM with supervision by city governments can be **beneficial** for both cities and local communities for **cost saving, better working environment, empowerment** of people engaging in informal waste management activities.

## Way forward-1

- **Improved coordination between central governmental policies and local governemtnal policies** can result in more efficient implementation of the 3R policies and replication of good practices.
- **Central government as well as NGOs** can play a key role to identify **best available technologies** and **best environmental practices** in the country and **inform other** local governments about successful factors.
- By doing so, **pilot projects/ demosntraction projects/ local good practices** can be **up-scaled and integrated into mainstream** policies and practices.

## Way forward-2

- For the successful 3Rs, the issue of **hazardousness of wastes/recyclables** shall be taken into consideration including **proper enforcement of environmental and health standards.**
- To make **ESC from theory into practices**, it is crucial to set some **standards, benchmarks, and targets to upgrade and modernize the current practices** of urban solid waste treatment into **sustainable urban solid waste and resource management.**