

The background of the slide is a photograph of the Angkor Wat temple complex in Cambodia. The temple's five towers are visible against a blue sky with scattered white clouds. In the foreground, there is a body of water with lily pads and some greenery. The text is overlaid on the image in a stylized, italicized, cyan font with a black outline.

*The Formation of 3R Strategy  
in  
The Kingdom of Cambodia  
(Draft)*

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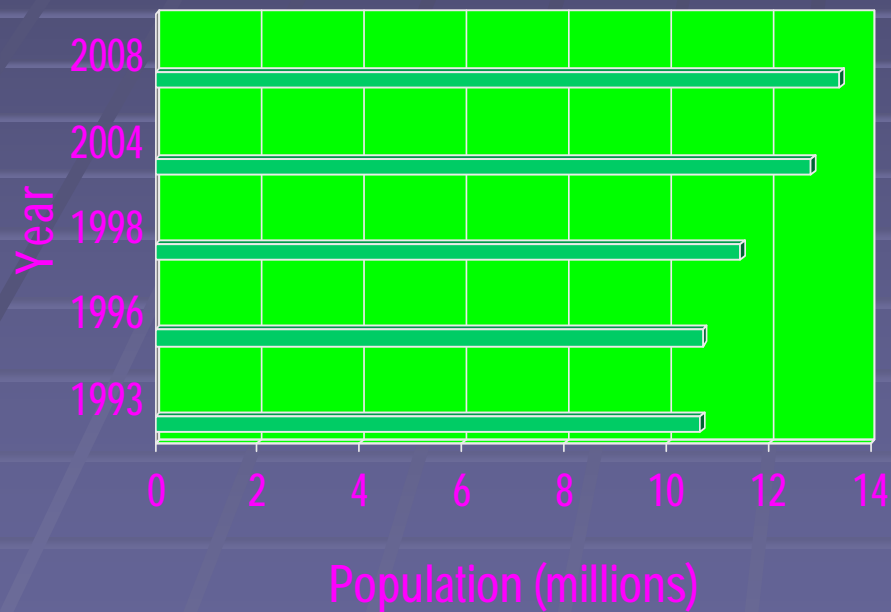
# *Contents of Presentation*

- 1. Background Information*
- 2. Formation of 3R Strategy*
- 3. 3R related Existing Activities and Programmes*
- 4. Conclusion and Recommendation*



# 1. Background Information

Population Growth



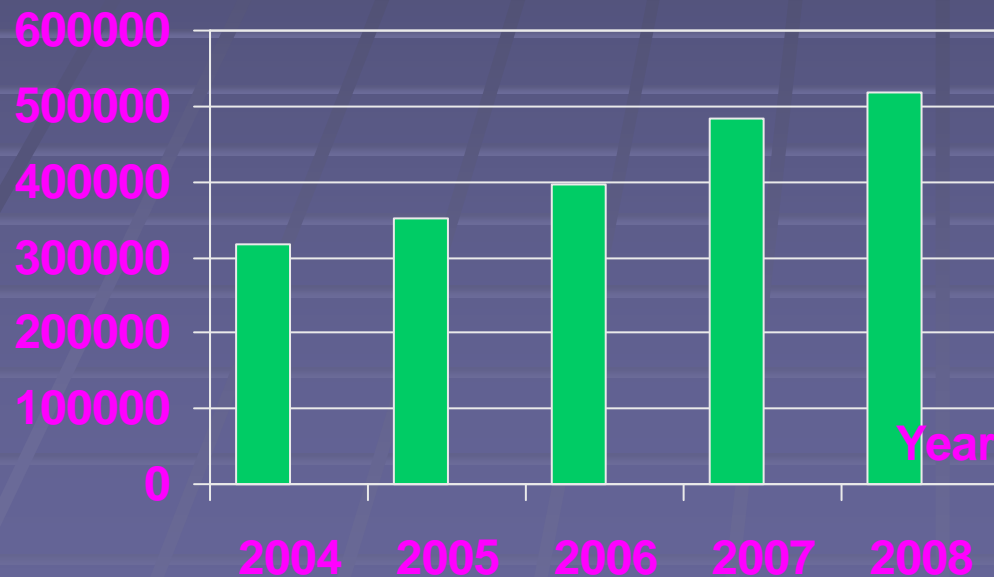
- Cambodia population is increased from year after year, and it accounted for 13,388,910 in 2008 (NIS, MoP 2008).

☞ Growth rate 2.55% for urban population, and 1.30 for rural population.

# 1. Background Information (cont.)

Collected solid wastes/garbage at urban areas

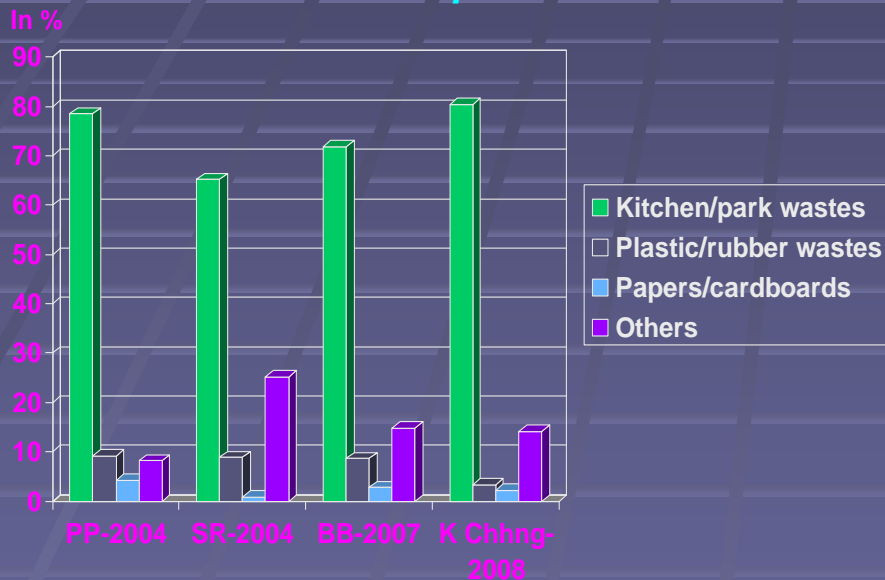
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- ❑ Waste generation is directly involved with the population growth and their living style.
- ☞ Some challenges recognized to be occurred in waste management practices.

# 1. Background Information (cont.)

Urban waste composition



- In the context of urban waste management, it has more potentially to comply with the 3R initiatives in Cambodia, but only few activities are being done at households, business and industrial sectors.



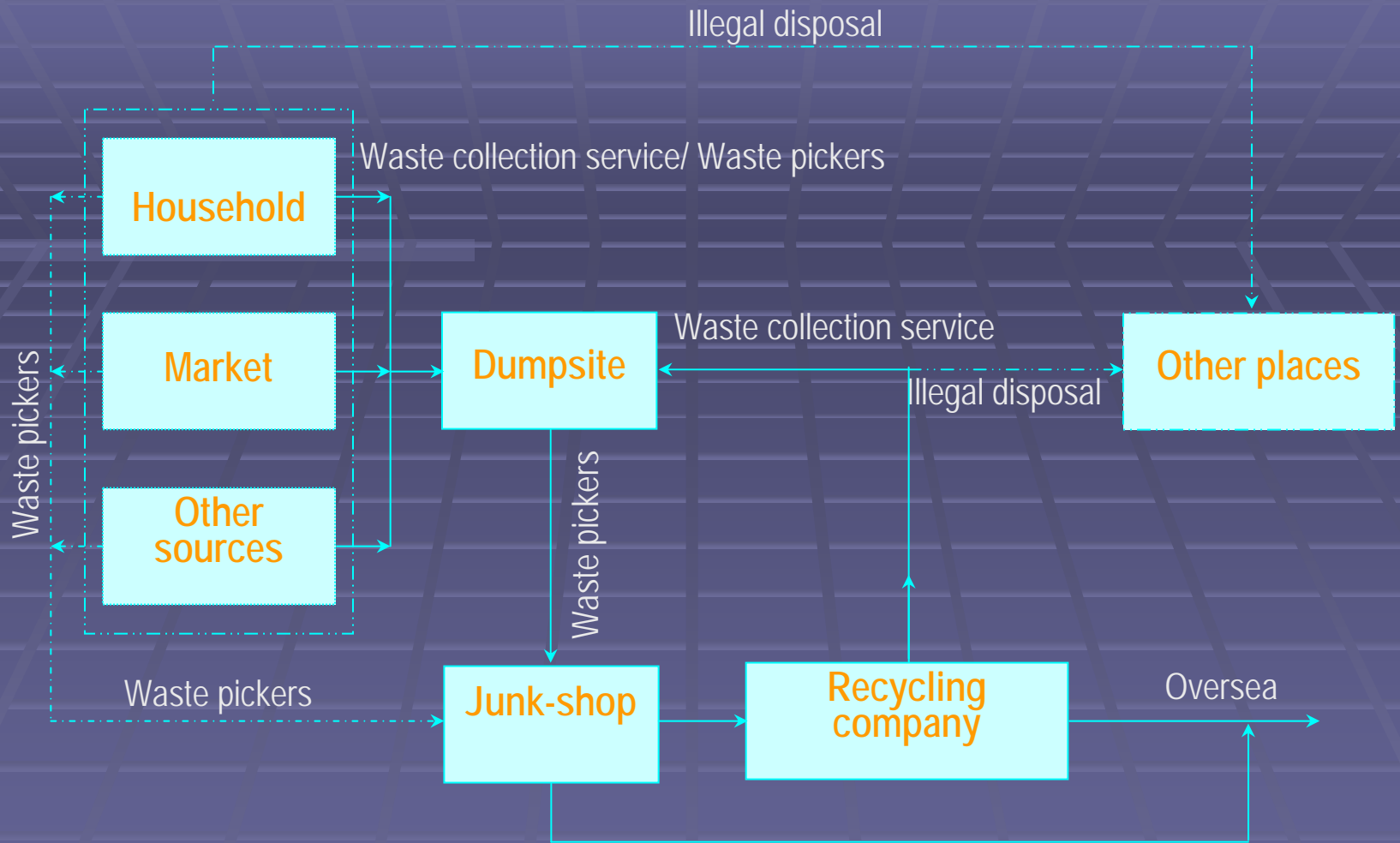


*Recycling plastic wastes as plastic raw material*





*Organic composting activities in Phnom Penh,  
COMPED - 2009*



*General flow of urban wastes in Cambodia*



# 1. Background Information (cont.)

- ❑ Concerns to the environment and human health impacts, including contributing to climate change, these resulted from:
  - ☞ Very simple dumpsite (without EST)/lacking of urban dumpsite
  - ☞ Waste separation practices (for 3R purpose) have not yet carried out
  - ☞ Improperly disposal of solid wastes at elsewhere, including opened burning

## 2. Formation of 3R Strategy

- Cambodia has developed *"The Strategy on 3R for Waste Management in the Kingdom of Cambodia"*, under the framework of the Project, namely, "Research on Advanced Waste Management in Asia and the Pacific - RAWMAP" - UNEP RRC.AP.



## *2. Formation of 3R Strategy (cont.)*

- Two main activities were conducted prior to develop the strategy for identifying gaps and requirement for waste management in the forthcoming time:
  - ☞ Desk study
  - ☞ Field survey in selected provinces and cities (using questionnaire lists)

## 2. Formation of 3R Strategy (cont.)

- By its target year of 2015 and 2020, the Strategy aims to establish an efficient solid waste management system to build on the 3Rs giving jobs, incomes to people, reducing waste amount at dumpsites, and the like without causing severe risks and hazards to the environment, biological diversities, and public health.
  - ☞ Four main areas will be covered:
    - waste collection for disposal at landfills
    - waste separation for recycling purpose
    - organic waste composting
    - developing and operating landfills to abide by the environmental legal tool



## *2. Formation of 3R Strategy (cont.)*

- Five specific programmes to achieve the 3R strategy for solid waste management in Cambodia:
  - ☞ Developing 3R policy and regulation for waste management at national and local levels based on existing environmental legal instruments and related statutes.
  - ☞ Common perceptions on 3R initiative in waste management and capacity building and improvement among government officials

## *2. Formation of 3R Strategy (cont.)*

- ☞ Achievement of 3R initiative through appropriate pilot projects focusing on household waste management at selected urban area.
- ☞ The dissemination and application of 3R policy and regulation in public and private sectors.
- ☞ Integration of 3R initiative into the national policy development.



### 3. 3R related Existing Activities and Programmes in Cambodia



□ APFED Showcase 2007: "The study on linkage of sustainable development between agricultural sector and environment/ human health", supported by IGES/UNEP/ROAP.

☞ Using organic composts instead of chemical fertilizers for agricultural crops.

### 3. 3R related Existing Activities and Programmes in Cambodia



□ "The Environmentally Sound Management of E-waste in Cambodia", supported by Basel Convention Secretariat.

☞ First phase : E-waste inventory in selected provinces and cities.

☞ Second phase: Awareness raising to some selected provinces and cities.





### *3. 3R related Existing Activities and Programmes in Cambodia (cont.)*

- "The Preparation of Guideline to manage plastic wastes conforming to the Green Growth concept", supported by UNSCAP/SINGG, 2008.
  - ☞ It focuses on environmentally sound management of plastic bag litter to abide by the 3R initiatives' application, including risk and hazard precaution



### *3. 3R related Existing Activities and Programmes in Cambodia (cont.)*

- ❑ The project, namely, "Waste Electronic and Electric Equipment/ E-waste Management for Phnom Penh City", supported by UNEP-DTIE-IETC in early 2009.
  - ☞ It aims to build the national and local capacity in Cambodia on inventorization and environmentally sound management of e-waste by undertaking various activities: E-waste Manual on E-waste Inventory (Volume 1) and E-waste Management (Volume 2).
  - ☞ Disseminating a lesson learnt, including training materials to other developing countries those have the similar situation like Cambodia.



*Launching Ceremony: E-waste Management in Phnom Penh, 10 Feb. 2009*



*Interview process did by the project WG at TV repairing shop in Phnom Penh*



*General view at TV repairing shop in Phnom Penh*



*Stakeholder WS on E-waste Management in Phnom Penh, 28 Oct. 2009*



## 4. Conclusion and Recommendation

- With reference to above said, 3R programme and related activities are still limited implemented in Cambodia due to challenges of:
  - ☞ There is neither a legislation nor regulation to boost the 3R application.
  - ☞ 3R perception is limited among decision makers and technical officers, including the publics – that is a cause of less public participation.



## 4. Conclusion and Recommendation (cont.)

- ☞ Existing practices dealing with 3R initiatives are commonly outdated – it is merely worked based on local understanding.
- ☞ Inadequacy of capacity and capability to do the 3R process by specific waste' types to abide by the 3R initiative was set up in April 2005 within the ministerial conference in Tokyo, Japan.

## 4. Conclusion and Recommendation (cont.)

☞ To accomplish these challenges, especially, *the programmes/activities as specified in the 3R Strategy of Cambodia*, the MoE of Cambodia would like to ask for technical assistance/ supports from international organizations and donor countries – whose either responsible for or involve in the environmental sector, especially, the 3R application in particularly.





*Thank you very much  
for your kind attention...*