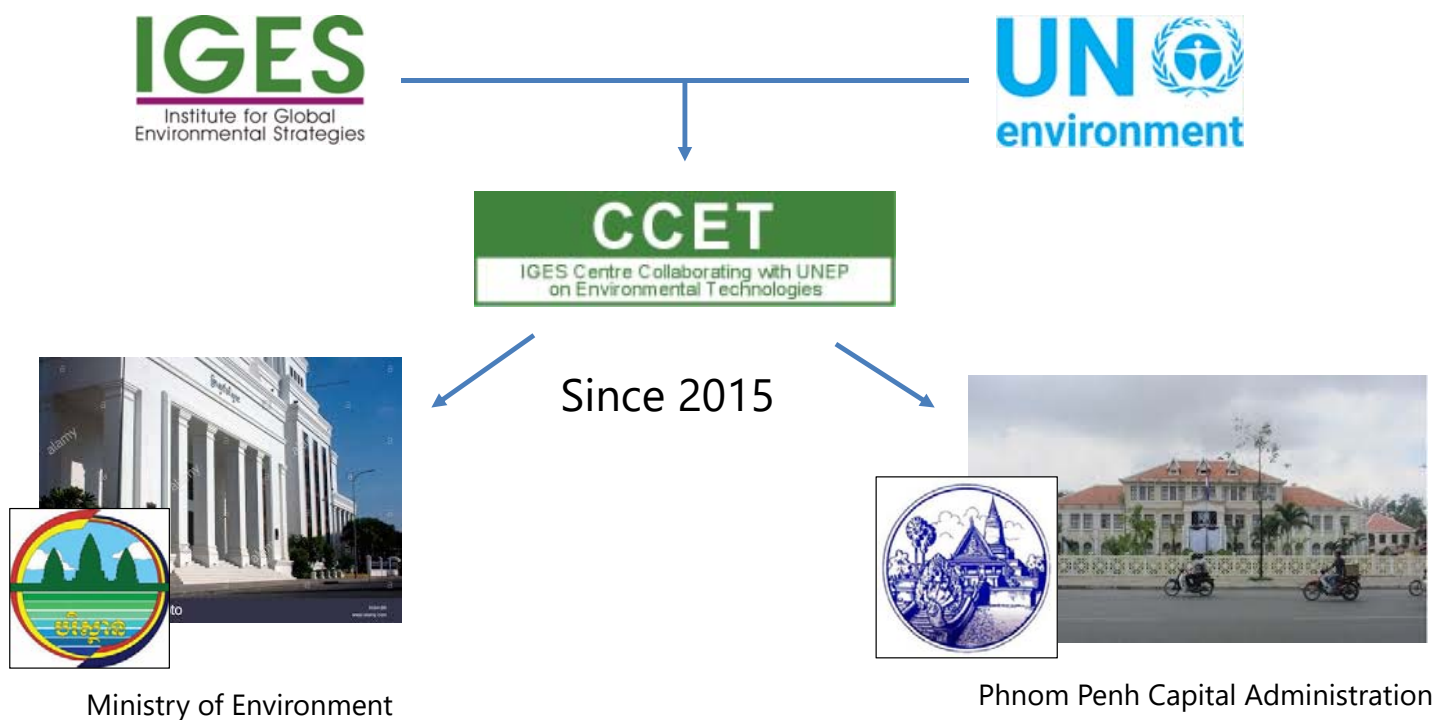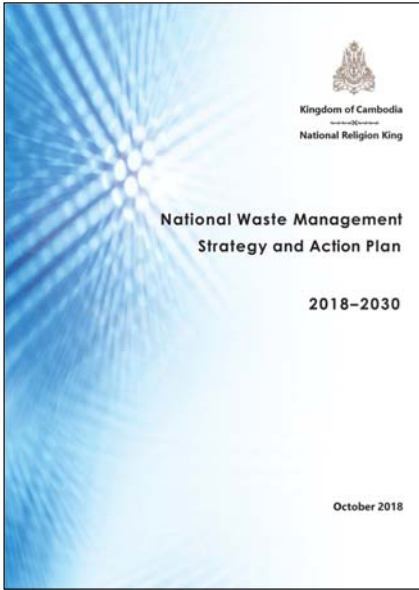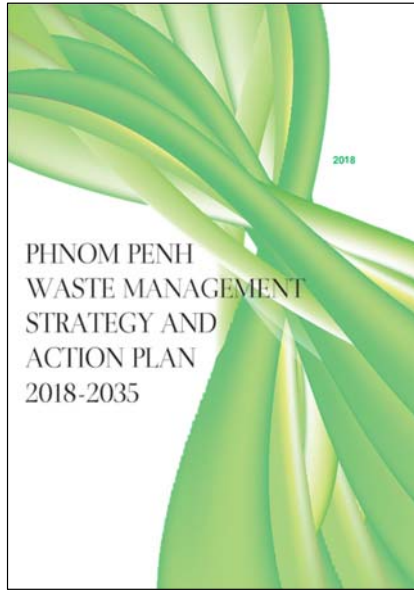# Promotion of Environmental Education in Primary School Education A Case of Phnom Penh

Ran Yagasa
Policy Researcher, IGES Centre Collaborating with
UNEP on Environmental Technologies (CCET)

Since 2015

Ministry of Environment

Phnom Penh Capital Administration

Action Area 5
Engaging Stakeholders

Action 5.2: Educating Youth through Environmental Education
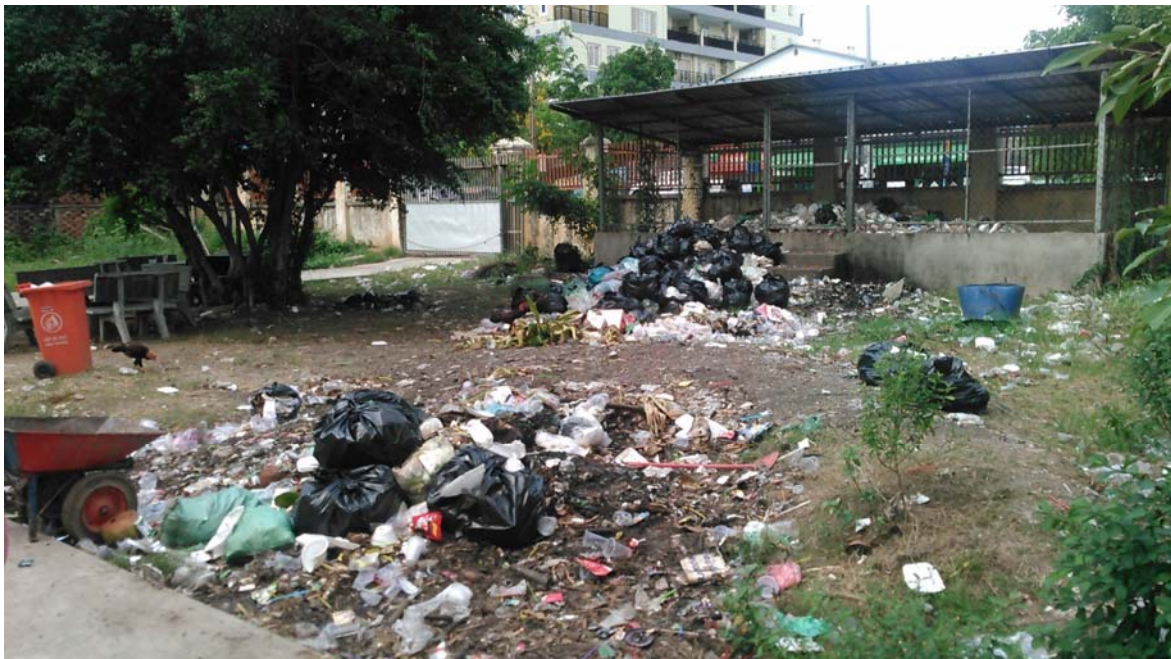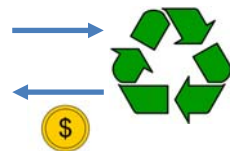
Awaiting final approval

Approved August 2018

1. Waste Management Problems in Primary Schools in Phnom Penh

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1. Waste Management Problems in Primary Schools in Phnom Penh

Insufficient/no budget for waste collection service

2. State of Environmental Education

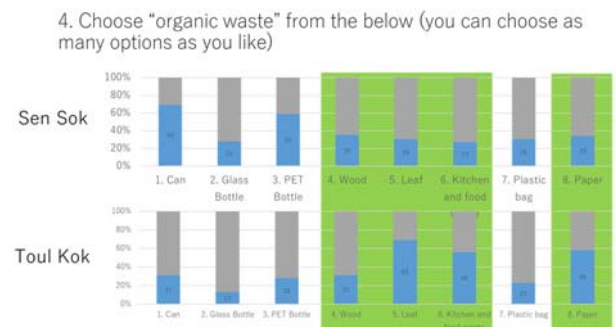Preliminary hearing suggested that there exist no teaching material exist comprising environmental education.

Survey on **knowledge** and **behavior** on waste management and 3R

RESULTS
- Lack of understanding on waste problems, the link b/w lifestyle and the problem, and 3R
- Source segregation not widely practiced

3. State and Challenges of Waste Management

1. Environmental Education (waste management education)
   - Official curriculum do not exist
   - Educational tools do not exist
   - Teachers lack awareness on waste issues and experience of EE.
   - Awareness of students on waste issues low
   - Resource conserving behavior not widely observed among students
2. Waste Management in Primary Schools
   - State of waste management not well understood
   - High volume of both organic and inorganic waste from vendors
   - Lack/absence of budget for waste management
   - Lack of actions for waste reduction / management

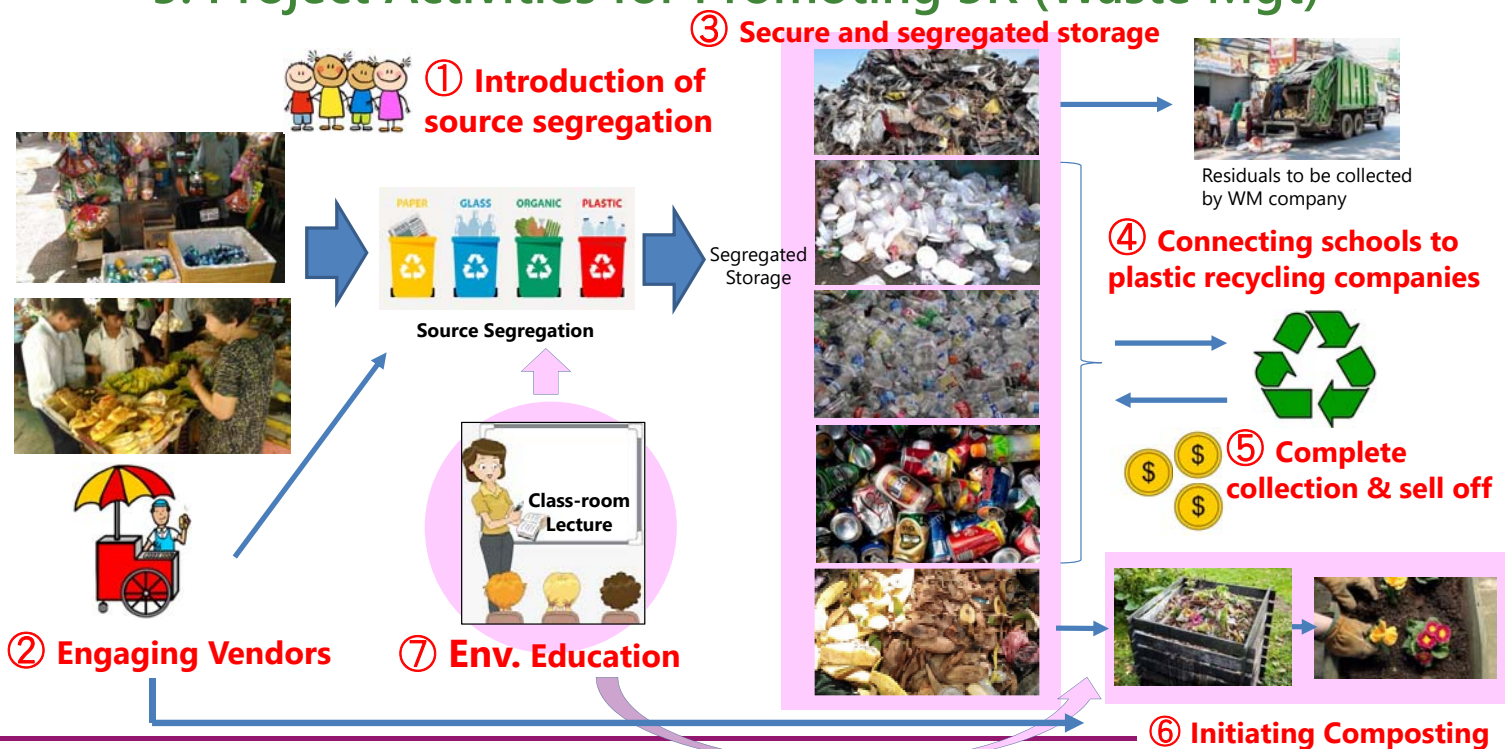# 4. Pilot Project for Promoting Environmental Education

Aim:

1. Promotion of Environmental Education
2. Address real waste management problem in schools

Activities:

☐ Development of material for environmental education
☐ Development of Guiding Tool for Teachers (waste audit, segregation, composting)
☐ Participatory waste audit
☐ Initiating source segregation
☐ Initiating composting

5. Project Activities for Promoting 3R (Waste Mgt)

③ **Secure and segregated storage**

① **Introduction of source segregation**

Residuals to be collected by WM company

④ **Connecting schools to plastic recycling companies**

⑤ **Complete collection & sell off**

Segregated Storage

Source Segregation

Class-room Lecture

② **Engaging Vendors**

⑦ **Env. Education**

⑥ **Initiating Composting**

Active-Learning Approach

Experiential Learning
Participatory Waste Management Activities

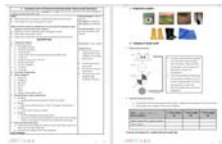Waste Audit   Source Segregation   Composting
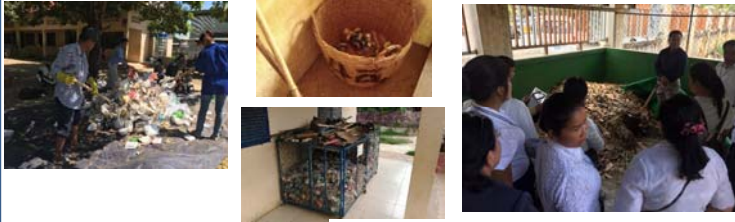
⟷ **Classroom Lecture**

Combining WM improvement and Env. Edu.

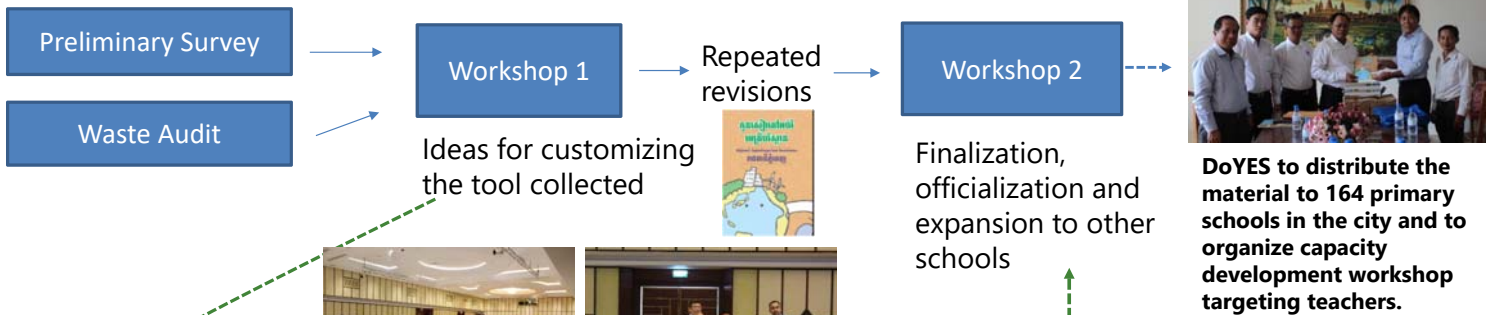Teachers' Guide on Waste Audit, Source Segregation, and Composting

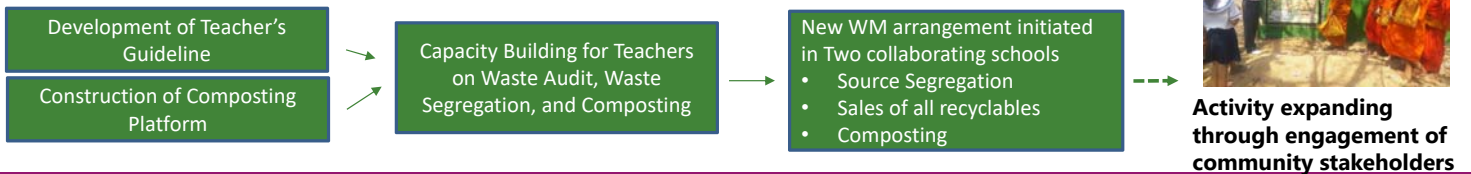Ecology Note
Supplementary material for Env. Edu.

# Project Activities Implemented

Development of Ecology Note

| Preliminary Survey | → | Workshop 1 | → Repeated revisions → | Workshop 2 | ⇢ |

Waste Audit →

Ideas for customizing the tool collected

Finalization, officialization and expansion to other schools

DoYES to distribute the material to 164 primary schools in the city and to organize capacity development workshop targeting teachers.

Participatory Waste Management Activity

| Development of Teacher's Guideline | → | Capacity Building for Teachers on Waste Audit, Waste Segregation, and Composting | → | New WM arrangement initiated in Two collaborating schools |
| Construction of Composting Platform | | | | |

New WM arrangement initiated in Two collaborating schools
• Source Segregation
• Sales of all recyclables
• Composting

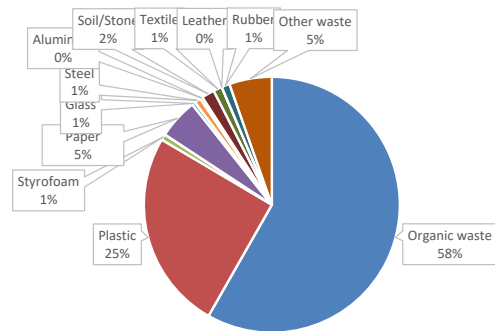**Activity expanding through engagement of community stakeholders**

Activity 1: Participatory Waste Audit

Waste Audit conducted as a part of participatory waste management activity.
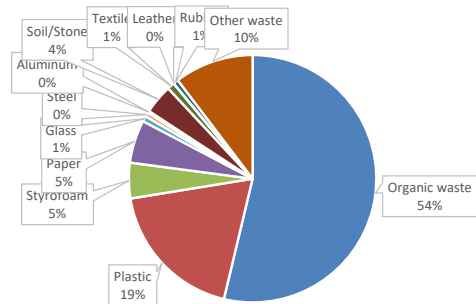
Average Waste Composition in Seng Sok Primary School

Average Waste Composition In Tuol Kok Primary School

Ecology Note

Basic Concept

	Active Learning	Passive Learning
Ability	1. Think 2. Decision making 3. Explain/communicate	1. Acquisition of knowledge 2. Application of knowledge
Approach to learning	1. Interactive Learning 2. Proactive	1. Uni-directional 2. Knowledge oriented
Methodologies	Exploration Discussion Presentation	Textbooks Lectures

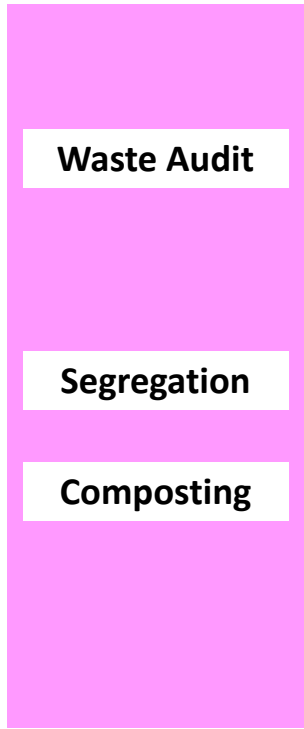## Active Learning   Passive Learning

Providing opportunities for finding answers (=mission/project)
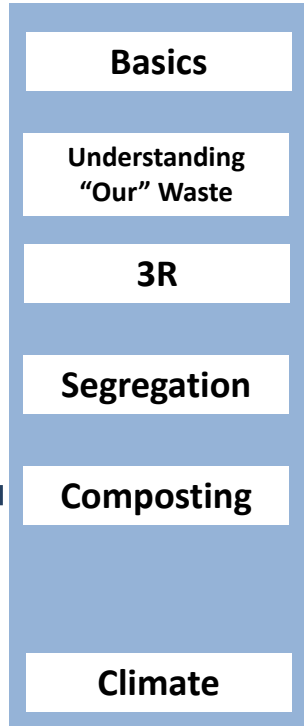
Providing answers = Information (Basis of answers)
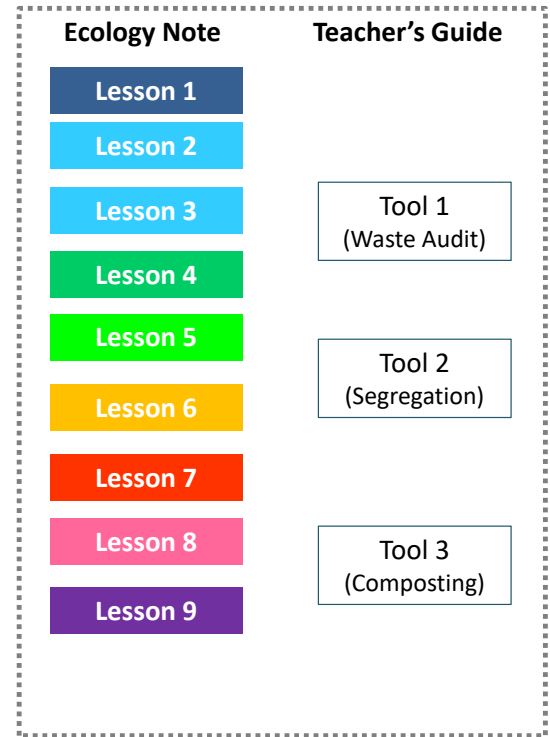
Deeper understanding on Issues

Thank you