



Timor-Leste: Application of 3R Policy and Program

2-4 Nov 2016, Adelaide, South Australia

Introduction

- The country size: 14,000 Km²
- Total population: 1,2M;
- Total waste collected per Day in the capital-Dili: 150 tons/day;
- One simple landfill and 12 simple waste terminal for each municipal;
- Simple incenerator for medicines and hospital waste



Actual Progress

1. Institution, Legislation & Regulation:

- Waste collection: under Municipal, support by The MoPW
- Environmental Basic Law and EIA Decree Law
- Penal Code (environmental crime)
- Urban sanitary regulation;, implementing by The MoPW

2. 4R-Program

- **Recycling program:** plastics, rubber and broken tire recycling initiative
- **Reuse program:** bio-briquette production and collection of cardboard and reused program.
- **Reduce program:** Promote the use of biodegradable bags in reducing plastic waste.
- **Return program:** Composting and return fertilizer to the soil (nature) and collecting metals, etc re-export it to origin countries.

3. Education and Public Awareness:

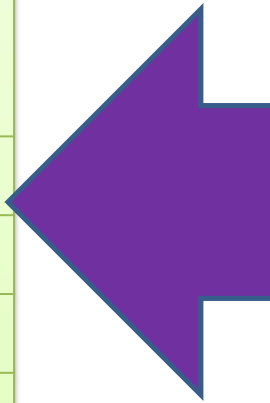
- Promote community Waste collection point and simple segregation of waste
- Every Friday as Cleaning Day
- Healthy Village Competition

4. Reserach and planing: Urban solid waste survey and waste management plan (ADB and the MoPW, MMCIE)



Characteristic Waste Type in TIBAR Landfill

Waste Type	%
Food Waste	12
Green Waste	33
Paper and Cardboard	18
Plastic	18
Textiles	2
Glass	2
Metal	1
Wood	0
Soil and Dirt	12
Miscellaneous	3



Observation: the quantities not include illegal damp. This numbers ONLY focuses in Dili not include others 12 district / municipality.

TIBAR DUMP SITE:

- Present site is an open dump
- Problems include...
 - No detailed site development plan
 - No real operator training
 - Some profiling and compaction
 - Very little soil cover
 - No leachate collection/disposal system
 - No stormwater runoff diversion
 - No litter control
 - Inadequate recycling facilities



Challenges

- 1. Lacking of experties:**
- 2. Lacking of appropriate technology:** for waste collection, transportation and processing;
- 3. Public partisipation and awariness**
:(comsumption style);
- 4. Financial:** (still to many other state priority)
- 5. Coordination and task distribution:**
(different institution responsibilities);

Solution to Resolved



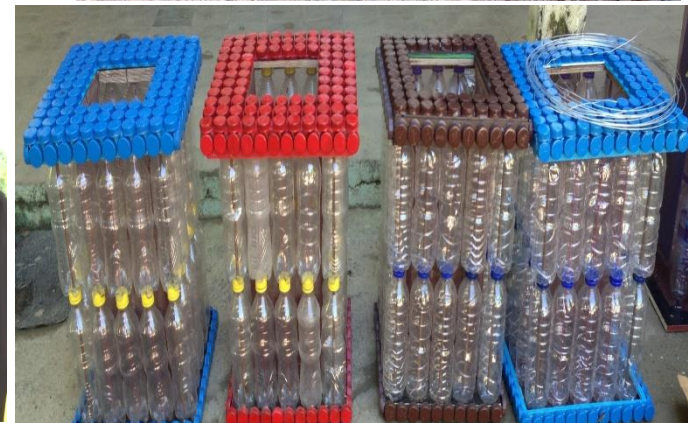
1. Administrative Solution :

- Environmental Education= Formal & non Formal;
- Implementation Green School “Pilot project”



2. Technical Solution

- 3R System
- Composting system
- Energy production (Gas & Electricity)



Move forward:

- Promote public participation and awareness;
- Promote foreign investment: The development of Furnace Waste Melting System, but NOT Implement yet;
- Improve waste collection, waste segregation and waste management system.
- Improve infrastructure: waste station, landfill and waste industrial system.
- Improve coordination and law enforcement
- Applying polluter pay principle into EIA system

Thank you

