



## **Urban Waste Management Vientiane Capital city**

**Safe, lighted, Clean, Green, Civilized  
and Charming Vientiane; it is the  
Sustainable city .**

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# General information

Vientiane area 3,920 km<sup>2</sup>

Population 972,000 people

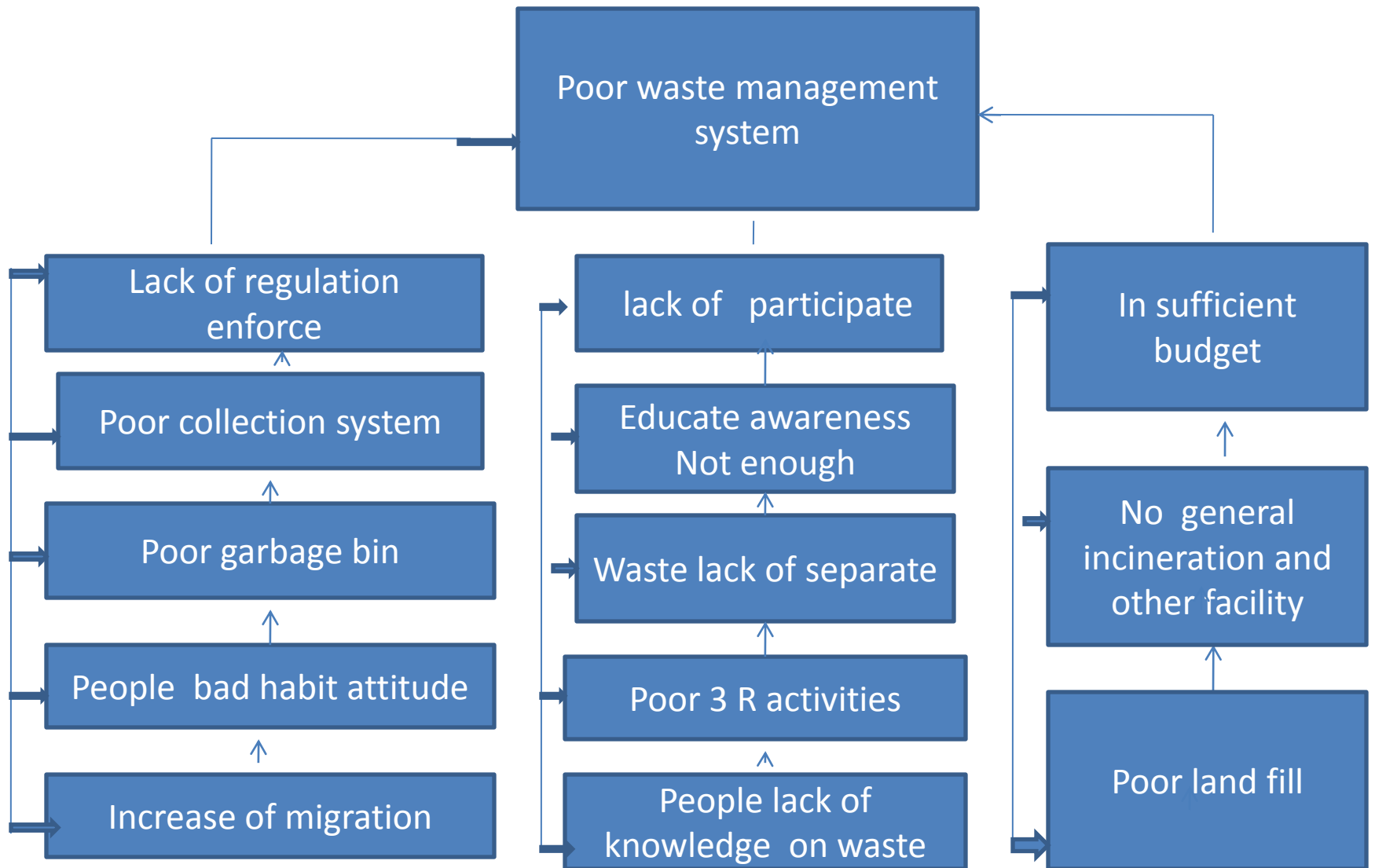
Pop. Density 248/ km<sup>2</sup>

Administration 9 district

Villages 483



# Current Challenge



# Implementing urban waste management

- ❖ Promotion of Awareness using 3R principle
- ❖ waste collection
- ❖ Manage land fill



# Job and organization

❖ organization :

Department of Natural  
resource and environment  
Vientiane capital city  
(Environment division )



❖ Responsibility: promotion  
of public awareness  
including 3R principle and  
other activities



# Job and organization

❖ organization :

Vientiane Urban Development  
Administration Authority

❖ Responsibility:

Waste collection and Final  
disposal system



# Implementing urban waste management

3R principle (reduce ,reuse ,recycle )

- Separation at source
- Estimate awareness Campaign to citizen in the district /village
- Communicated with Education department for Awareness

DONRE budget / 15,000,000 k/year

Annual budget for Environment

2016-2020 : 400,000,000 k/ 5 years





# Implementing urban waste management

3 R activities consists :

1. on- site composting
2. Plastic bag reduction
3. Recyclable separation
4. Awareness Campaign
5. Clean green school



# plastics shopping bag reduction Activity



# Recycle separate Activity



# Clean, Green schools program



# Recycle separation



# Composting and Nursery plant



# Implementing urban waste management

## ❖ Waste collection

Waste average      450t/day  
Person              0,7 kg/day  
Waste processing   280-300t/day

Contract with private companies

Collection and transportation

1time/week or under contract

Served area        8 district

Village service     269

Service contract   35.65 %



# Management landfill





general garbage pond



waste water pond



harzadous solide waste



$\frac{1}{4}$  treatment pond



# Waste Water and Night Soil Treatment



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# Management Land fill



# The Actually Operations at Landfill Km32



There are Scavengers working at the Landfill Km32 at least over 180 people



# Target on Waste management

- ❖ Continue Support and promote various municipalities to pursue the slogan Green, Clean and Beautiful by reducing solid waste and expanding for green area .
- ❖ Continue Promote implementation of 3 Rs to the public citizen



## Target on waste management (Cont)

❖ Continue educated awareness and other activities for reduction solid waste and plastic and expand to other municipalities in other provinces .

❖ Continue Cooperation with international organization to improve the solid waste management .



Clean

Vientiane

CAPITAL



Thankyou