

COUNTRY REPORT

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General Information Lao PDR

- Lao PDR has a land area of 236,800 km².
- Population: 6.5 Millions
- Urbanization: 30 Percent around 2 million
 - Urban Pop concentrated in 4 majors towns:
 - Vientiane Capital, 4 Secondary towns, provincial capital towns and new emerging centres (tourist destinations)
 - Population density: Range from 35-250pers/Km²

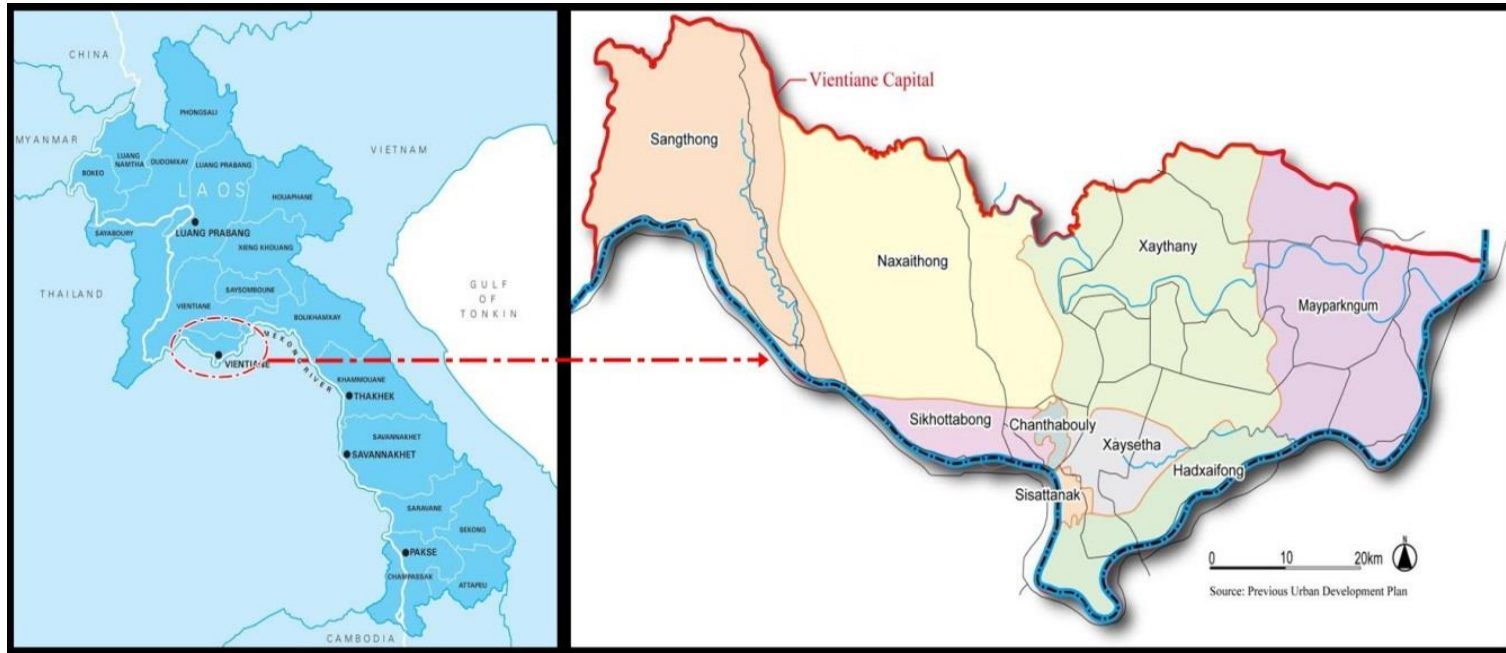
Institutional concerned on Environmental Management

- The Ministry of Natural Resources and Environment, (MONRE) is supposed to be overall sector regulator.
- Ministry of Public Works and Transport is the sector developer and service provider
- Ministry of Public Health is the quality surveillance
- Ministry of Industry and Commerce is the sector specific regulator are
 - Ministry of Agriculture and Forestry
 - Ministry of Energy and Mine.

Implementers/Service Providers:

- Urban Development and Administration Authorities (VUDDA or UDAAs) and Private Operators are under local authorities and private utilities.

Case of Vientiane Capital Situation



❑ Vientiane Capital cover 3,920 km² with population about 1,000,000 habitants and 60% of them are in the high density areas.

❑ The per capita waste generation for Vientiane Capital City is 240 Kg per person/year. The whole of urban area waste generates around 180,000-200,000 tons per year.

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Service/Collection Coverage

- Vientiane Capital has 9 districts but service coverage is only 8 districts (around 600,000 Pop) accessing to Service only 350,000 Pop or 58 % of the population in high density area.
- Recycling is estimated at 10% of solid waste generated, type of materials recycled are plastic, glass, paper, rubber, cardboard, metals, etc.

Collection Fee

- Household: 40,000 to 50,000kip/month (5-6 US\$),
- Public Sector: 60,000- to 80,000 kip/month (8-10 US\$),
- Market Waste: 150,000 to 200,000 kip/container (20-25 US\$)
- Toilet desludging charge: 400,000-500,000 Kip (50-70 US\$) per trip,

Waste water treatment and Reuse

- Mostly on site treatment with septic tank and simple pit,
- Current initiatives:
 - Formulate strategy,
 - Strengthening of the organization
 - Looking for working partnerships
 - Engaged international organizations (GGGI, JICA and others) preparation of some pilot projects

Waste Management Challenges

- No clear institutional arrangement with clear Roles and Responsibilities among Institutions involved, no clear defined lead agency
- Lack of regulation, guidelines
- Lack of qualified human resource,
- No clear domestic financial resource.
 - Service fee covered mainly wages and transportation cost and disposal fees

The way forward

1. The institutional in charge of the environmental management
 - need to redefine clearly the role and responsibilities and set up cooperation mechanism among ministries line sector involved.
2. Need to develop laws, regulations and technical guidelines
3. Need comprehensive capacity building strengthening for the sectors:
 - At Universities (long term), training for existing staffs (short term) and training skill for operators
4. To sustain of Waste management: need to develop as business corporation/utility rather than governmental service unit
5. Service fee should reflect the market cost

Action plan and priorities identified

- Finalize the current draft of the Sanitation Strategy (Wastewater and Solid Waste)
- Capacity building for the governmental institutions.
- Set up coordination mechanism and dialog platform
- Public awareness raising for all stakeholders
- Building of a workable utility as pilot and scaling up for country wide
- Starting Implement of waste water and solid waste in Capital City and some of the Secondary Towns (2018-2020)

Situation of the Land Fill Areas



JICA Grant Aid Project: Types of Vehicle and collections



Garbag for Households



Container for state office buidlings etc



Recycle at the Land fill



**Thank you for your kindly
Attention**