Inaugural Meeting of the Regional 3R (**Reduce, Reuse, Recycle**) **Forum in Asia**

3R Knowledge Hub – An Application in Health Sector Development Initiatives

> Presentation by Vijay Joshi 11 November 2009



3R Knowledge Hub

- A joint initiative of Government of Japan and ADB in partnership with UNEP and AIT
- Objective to provide one stop guidance and updated information for 3R applications in waste management
- Runs a website that received over 75,000 hits during two years of operations



3R Knowledge Hub – www.3rkh.net

- Provides information on
 - Experts on 3R and in waste management
 - Good industry practices in 3R
 - Case studies success stories as well as challenges faced
 - Specific projects and 3R initiatives in DMCs
 - Status of SWM and HCWM is select countries in Asia-Pacific regions
 - Manuals, guidelines and policy briefs on 3R



Status Report on HCWM

- Included 12 countries in south-east and east Asia
 - Cambodia, China, Indonesia, Japan, Lao PDR, Malaysia, Myanmar, Philippines, Singapore, Thailand and Vietnam
- Presented the status of waste generation, segregation and storage, transfer, treatment and disposal
- Reviews institutional setup and regulatory framework



Status Report on HCWM

- Identified main constraints in HSWM as – Weak regulatory framework
 - Inadequate financial resources
 - Private sector participation
 - Centralized treatment for a cluster of facilities
 - Gaps in knowledge and technology



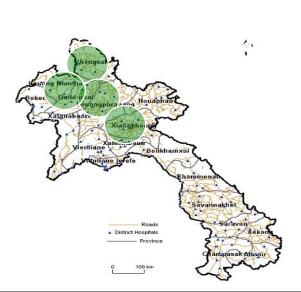
Way Forward in HCWM for DMCs

- Strategy 2020 of ADB lays significant emphasis on improving access to poor to basic health infrastructure
- Health Sector investments are also a priority to improve quality of life
- 50% of ADB investments are expected to be through private sector by 2020
- There is a window of opportunity to develop and implement HCWM at regional scale



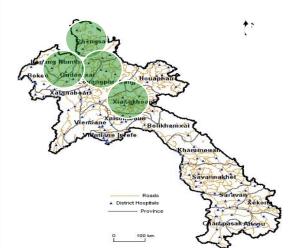
Lao PDR a Model Example in the making

- ADB, the World Bank and Luxemburg Development are financing a major Health-Sector Development Program in Lao PDR
- ADB component covers four provinces and includes
 Program grant of \$ 10 Mn
 Project grant of \$ 10 Mn



Lao PDR Health Sector Development Program

- ADB program component includes
 - Strengthened planning and financing
 - Increased access to MNCH care
 - Improved quality of HRH
- ADB project component covers
 - Improved health facilities in
 - 4 district hospitals and
 - 20 health centers



Integrating HCWM with H-SDP in Lao PDR

- IEE for H-SDP identifies scientific management of HCW as most important safeguards issue
- The finding of healthcare waste management status report under 3R initiative identifies major gaps in HCWM
- H-SDP provides an opportunity to develop a nationwide strategy for HCWM using 3R principles



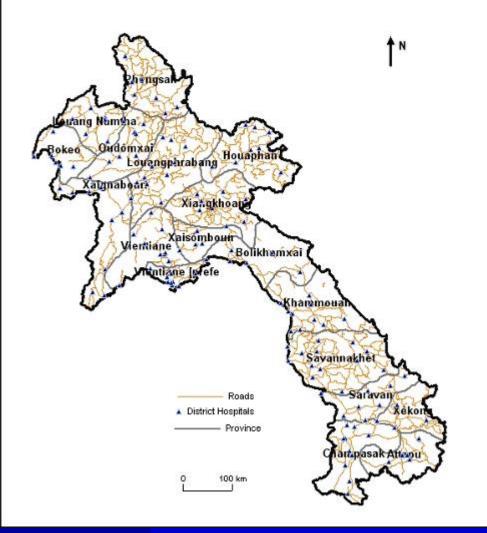
Approach to HCWM in Lao PDR

- Strengthening of HCW handling guidelines for segregation and storage
- Identification of geographical areas that can be covered by centralized facilities based on access and generation of HCW
- Identification of technological options for centralized as well as distributed HCWM facilities; including cost estimates
- Implementation of a few model facilities as part of H-SDP



Some Initial steps...

Major hospital location and road



Roads network in Laos

Location of Healthcare Facilities

Location of Major Hospitals

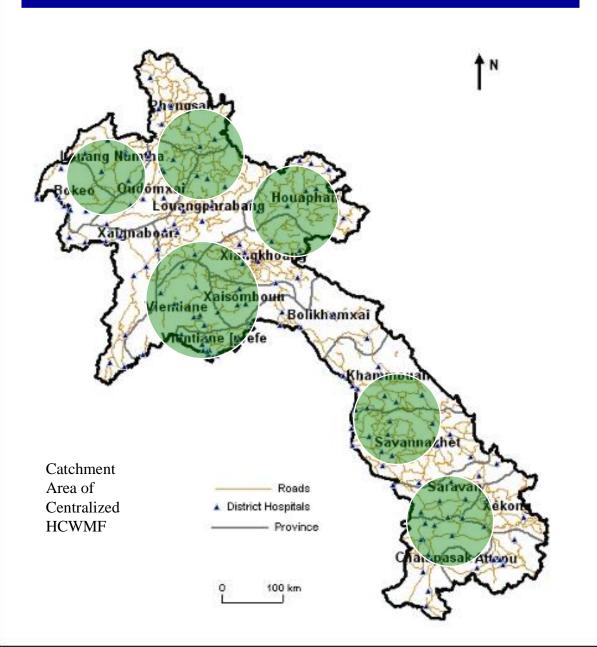
Healthcare Facilities map overlaid on Roads

Major Hospitals map overlaid on Roads



Only for illustration

Area of Coverage of Centralized Facilities



- Size of catchments
- Quantum of waste
- Opportunities to recycle materials
- Safe disposal
- Plan for decentralized facilities

DEVELOP A KNOWLEDGE TOOL TO PROVIDE 3R SUPPORT IN HCWM



For More Information

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