

# Water Resources Management in Lao PDR

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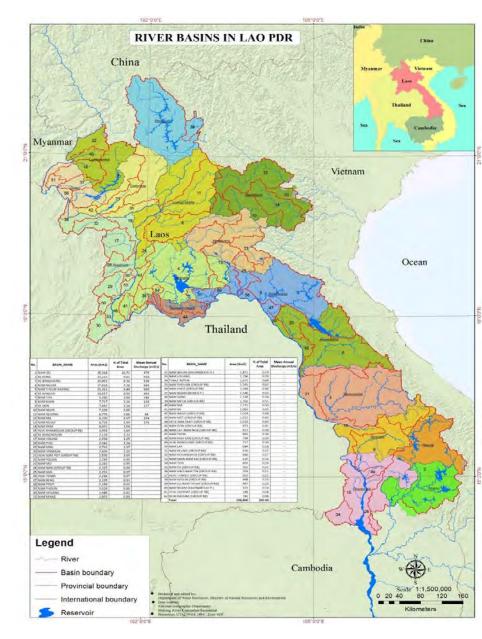
Thatsakone Chounlamountry Deputy Director of Water Use Management Division, Department of Water Resources, Ministry of Natural Resources and Environment.

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### Overview-Water Resources in Lao PDR

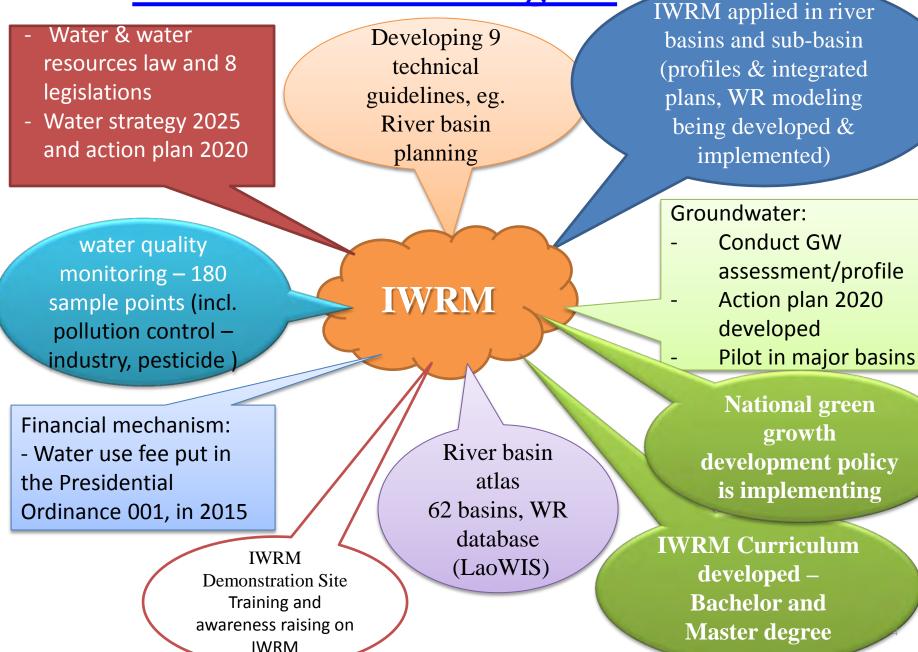
- Lao PDR is located in South-East Asia with Area of 236,800 km2, approx. 6.49 mil. People (2015);
- 90% of the country are in the Mekong Basin
- Water resources per capita is around 55,000 m<sup>3</sup> per year;
- 35% of annual flow (or equal 270,000 mil. m<sup>3</sup>) in Mekong is from Lao tributaries;
- The monthly rivers flow by the pattern of rainfall is around 80% (flood season) during the rainy season and 20% (drought season) in the dry season.

Lao PDR has abundance of water resources which there are total 62 sub-river basins.



#### **IWRM** application in different river basin scale in Lao PDR **IWRM** instruments Geography Mekong Mekong IWRM Strategy 2020 Basin Mekong IWRM-based BDP Lao PDR National Water Resources Strategy 2025 and Action Plan 2016-2020 Nam Ngum RB Nam Ngum IWRM Plan 2016-2020 Nam Ngum Nam Ngum sub-basin plans sub-basins (as e.g. Nam Xong and Nam Lik) Watersheds/Catchment **Integrated Watershed** Management Plans (as e.g. Nam Po)

### **Achievement and Progress**





### Challenges

<u>Institutional</u> arrangement & establishment – need to strengthen cross sector collaboration;

Limited <u>financial support</u> & sustainable mechanism – equipments, tools...;

<u>Legislations, guidelines</u> need to enforce and implement

Limited <u>capacity of concerned staff</u> on RB planning & management + public awareness & local participation on IWRM. – thus need to strengthen staff capacity and more on-the-job training, etc.

Lack of efficient & accurate WR data & information

### Water Resources Action Plan 2016-2020

- 1. Formulate/update and implement legislations such as water & water resources law, meteorology and hydrology law, related regulations, technical guidelines
- 2. Develop/implement river basin management plans in the 10 priority basins (plus 52 RBs)
- 3. Water quality monitoring and management 200 sample points & WQ assessment in RBs
- 4. Conduct groundwater assessment (national GW profiles) & implement National Groundwater Action Plan 2020
- 5. Flood control and drought/water scarcity mgt. & mitigation (*all basins*).
- 6. Develop water resources database, network, inventory, and modeling; *link national to local levels*.
- 7. Establish a national IWRM demonstration site for public awareness and education
- 8. Develop and implement wetland management plans and RAMSAR convention;
- 9. Update IWRM (Bsc & Msc) curriculums in cooperation with the universities;
- 10. Study and develop the scope for research on the hydrological, physical, chemical and biological characteristics of water bodies
- 11. Strengthen water resource sector in water resource management
- **12.** Manage water resources for impact mitigation and adaptation to climate change
- 13. Strengthen financial capacity in the integrated water resource management
- 14. Capacity building and awareness raising with gender mainstreaming and participation of all stakeholders

## **Thank You Very Much!**

Email: thatsakone@gmail.com Tel: +856 21 241744; Fax: +856 21 218737 www.dwr.monre.gov.la