

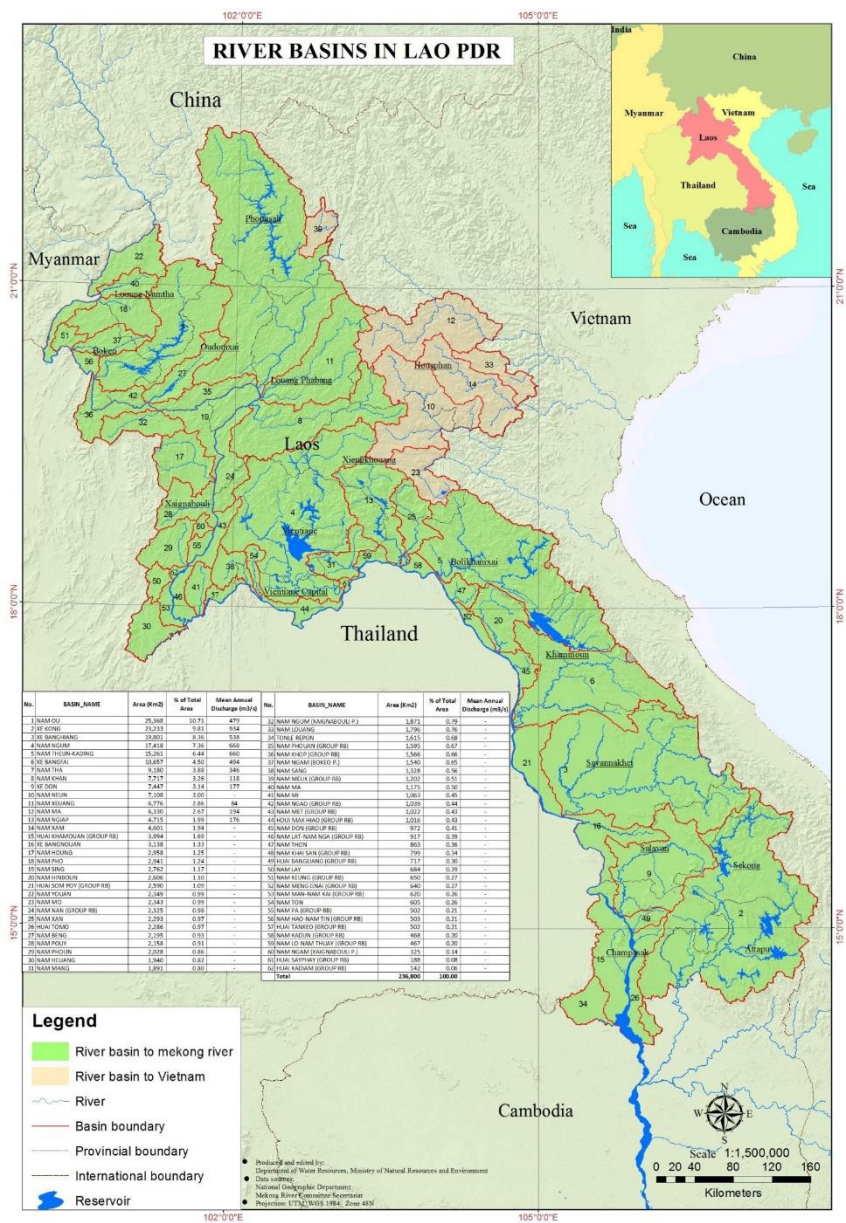
Water Resources Management in Lao PDR

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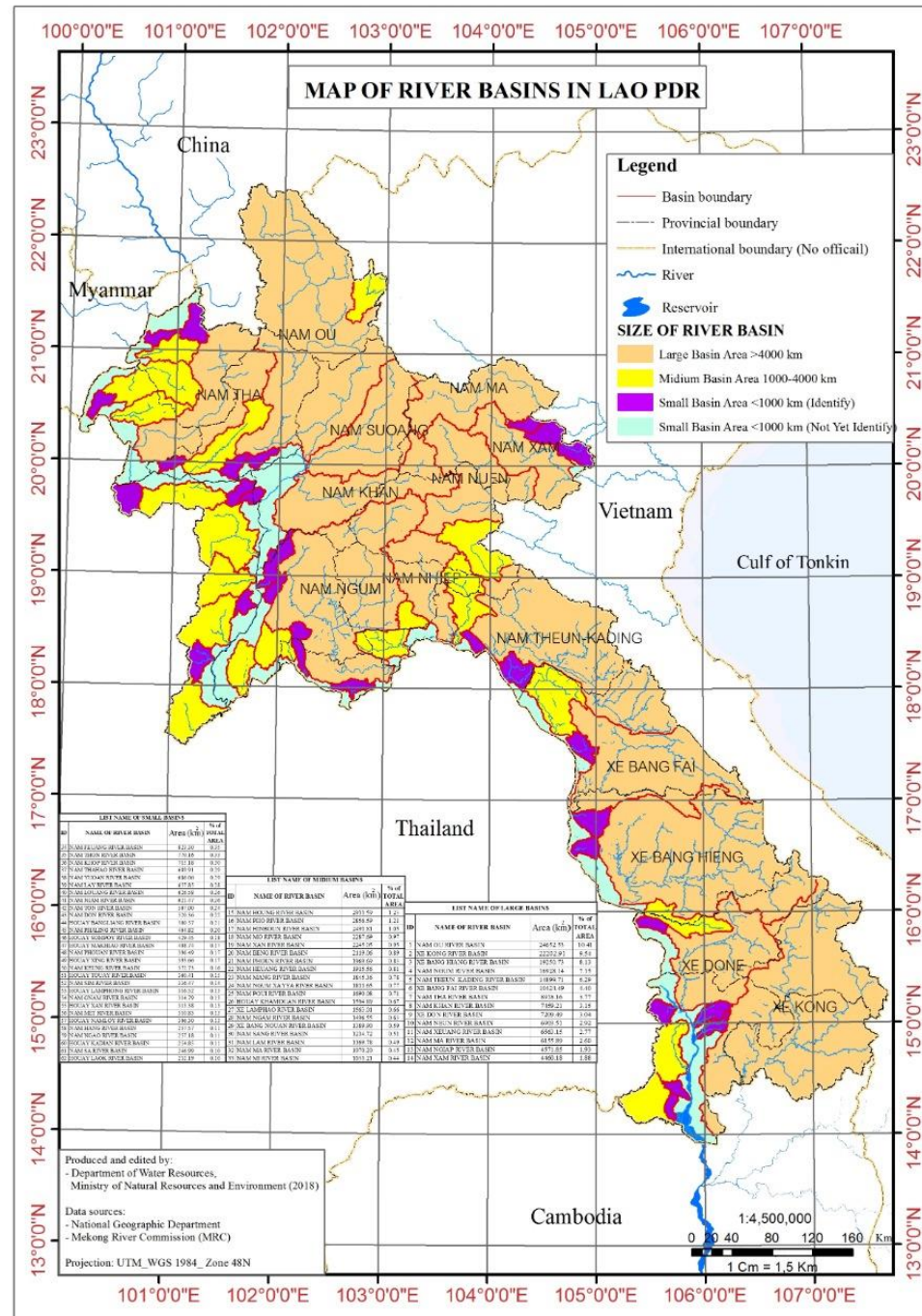
I. Overview-Water Resources in Lao PDR

- Lao PDR is located in South-East Asia with total land area of 236,800 km², approx. population 6.49 mill. (2015);
- 90% of the country territory is located in the Mekong Basin
- Water resources per capita is around 55,000 m³ per year;
- 35% of annual flow (or equal 270,000 mil. m³) in Mekong flow is from tributaries in Laos;
- 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.

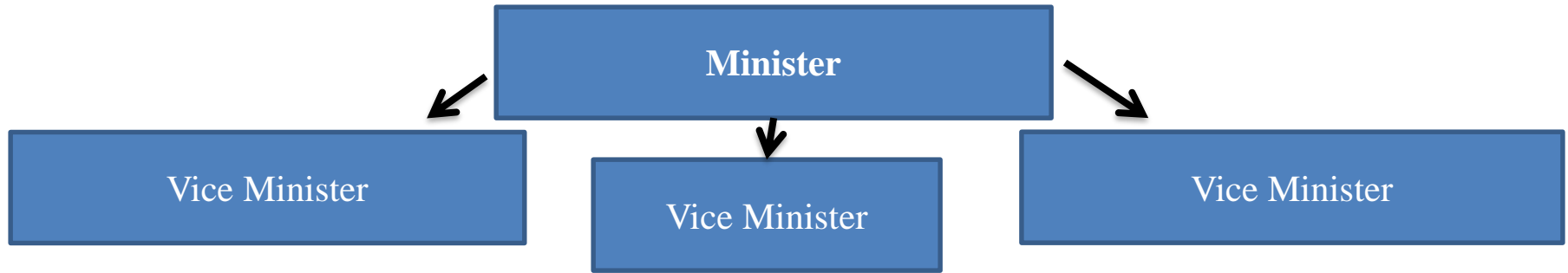
Lao PDR has abundance of water resources which there are total **62 river basins**.



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Ministry of Natural Resources and Environment



Dept of Planning And Cooperation

Dept of Water Resources

Dept of Envi. Quality Promotion

Dept of Pollution Control

Dept of Hydrology And Meteorology

Dept of Legislation

Cabinet

Dept of Organization and Personnel

Dept of Inspection

Dept of Natural Resources and Environment Policy

Dept of Finance

Lao National Mekong Committee Secretariat

Dept of Land Management

Dept of Climate Change

Natural Resources And Environment Research Institute

Natural Resources And Environment Information Center

Natural Resources And Environment Monitoring Office

Natural Resources and Envi. Training Center

IWRM History in Lao PDR

Prior 1975	1975-2000	2001-2010	2011-Present
<ul style="list-style-type: none"> - Traditional management /practice - No clear institutions and specific legislations on IWRM 	<ul style="list-style-type: none"> - Water and water resources law, 1996 - Mekong Agreement 1995 - Local knowledge and some regional and international applied 	<ul style="list-style-type: none"> - IWRM principle introduced - Water Resources Coordination Committee and its secretariat established - Water Resources and Environment Agencies established 2007 (including Department of Water Resources) - Integrated River Basins Planning - Local knowledge + regional + international experiences 	<ul style="list-style-type: none"> - Ministry of Natural Resources and Environment established 2011 (Dept of Water Resources) - Water & water resource law revised & approved (May 2017) - Water Resources Sub-sector working group established - Expand IWRM into 10 priority river basins - Technical guidelines developed - Up scale local knowledge + regional + international experiences

IWRM application in different river basin scale in Lao PDR

Geography

IWRM instruments

Mekong Basin

**Mekong IWRM Strategy 2020
Mekong IWRM-based BDP**



Lao PDR

**River Basin Management Strategy
2030**



Nam Ngum RB

**Nam Ngum River Management Plan
2016-2020**



**Nam Ngum
sub-basins**

**Nam Ngum sub-basin plans
(as e.g. Nam Xong and Nam Lik)**

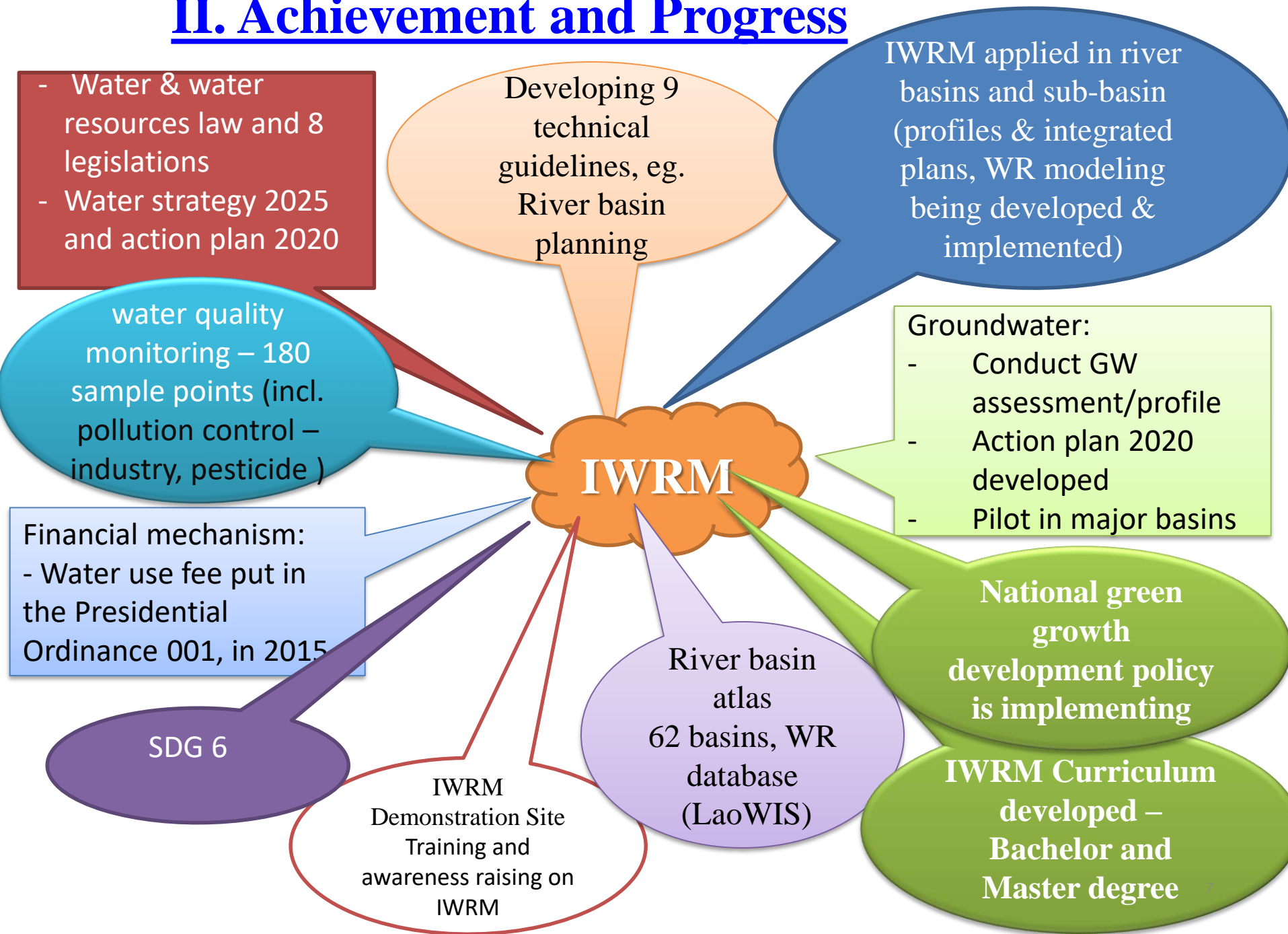


Watersheds/Catchment

**Integrated Watershed
Management Plans (as e.g. Nam
Po)**



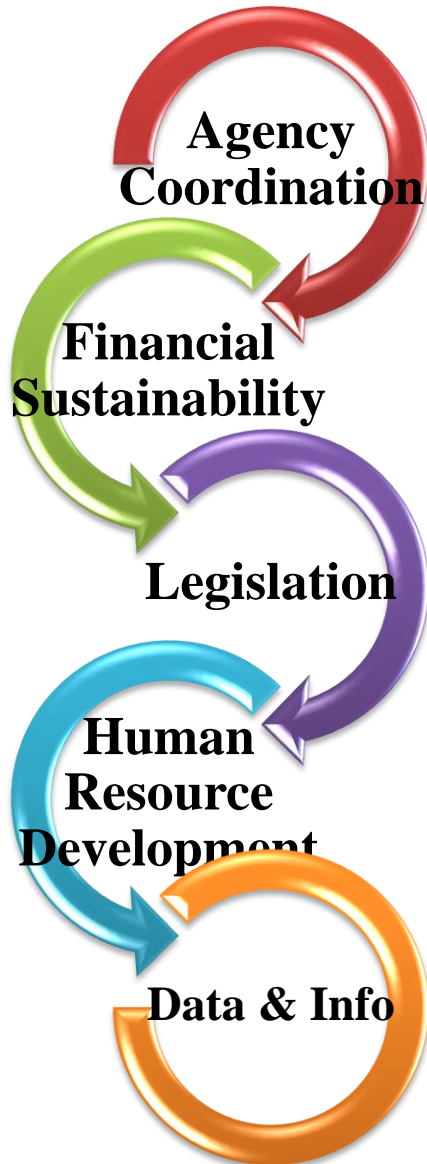
II. Achievement and Progress



III. Problems and Challenges



Challenges



Institutional arrangement & establishment – need to strengthen cross sector collaboration;

Limited financial support & sustainable mechanism – equipments, tools...

Legislations, guidelines need to enforce and implement

Limited capacity of concerned staff 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

IV. Way Forward

To address those challenges...we have to
implement Natural Resources and
Environment Sector Vision towards 2030

“**Keeping Lao PDR Green, Clean and Beautiful** based on **green economic growth**, to achieve sustainable development toward industrialization and modernization and to ensure **the resilience to climate change impacts and disaster risks**”



Draft Water and Water Resources Management
Strategy 2030

Water and Water Resources Management Strategy Programs

1. Protection

2. Development

3. Disaster Risk

**4. Institutional
Arrangement**

Thank You

