

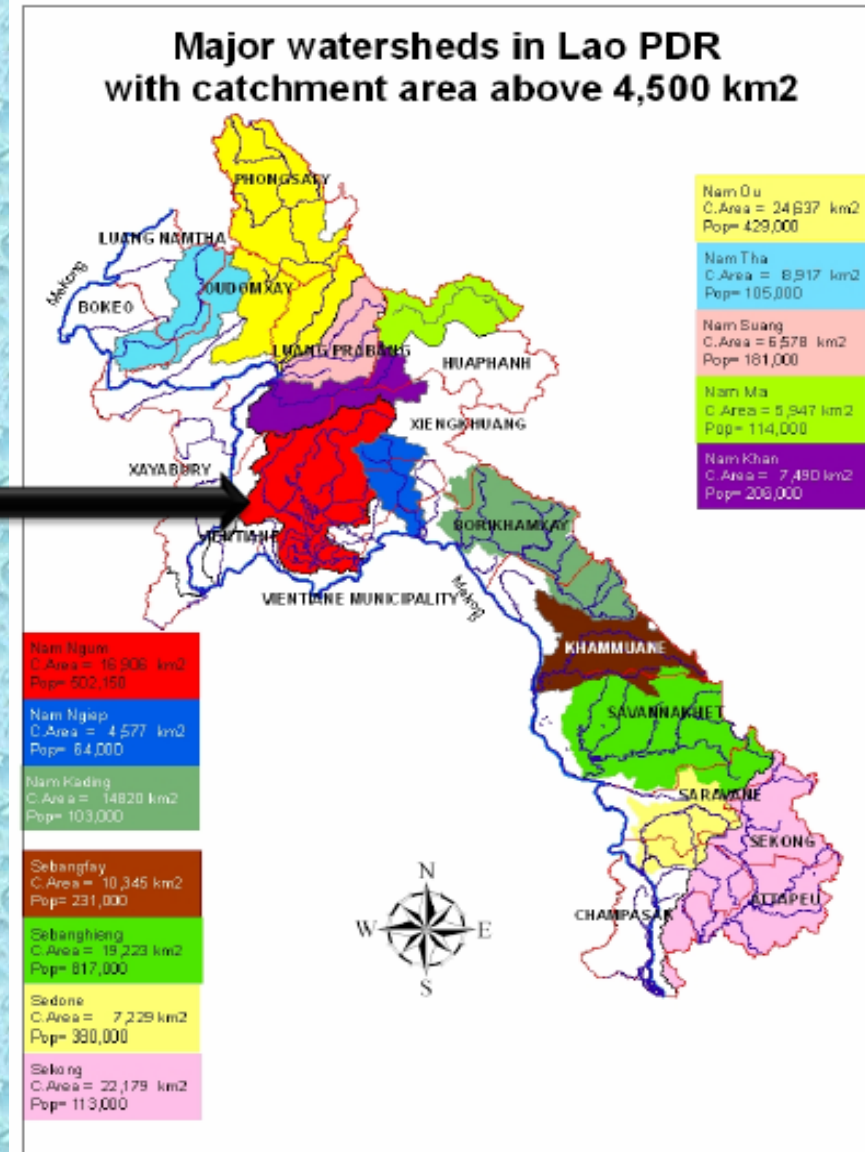
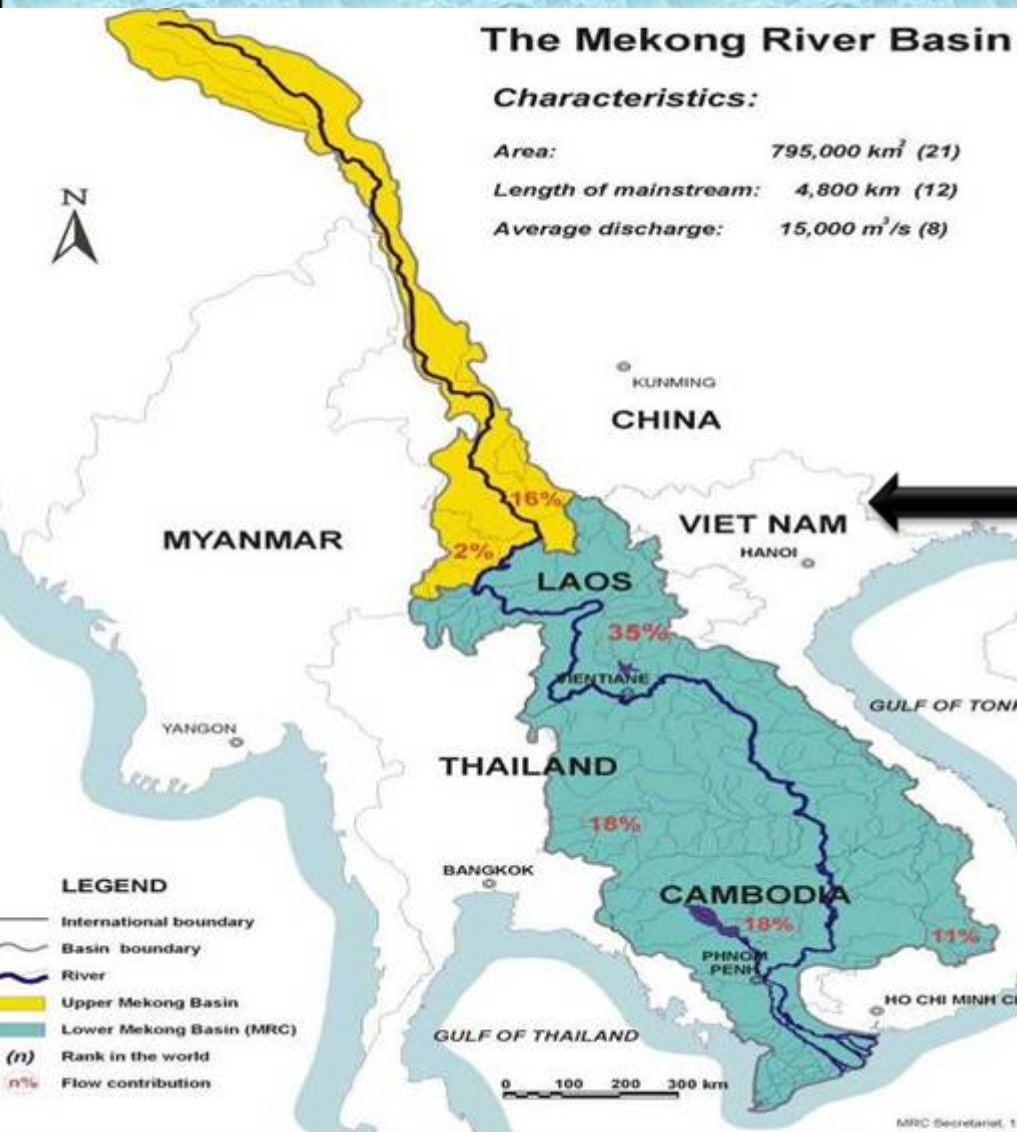
# Integrated Water Resources Management Nam Ngum River Basin – Pilot Project Lao PDR

Nam Ngum River Basin Committee Secretariat & Department of  
Water Resources

Ministry of Natural Resources and Environment (MoNRE)

Lao PDR

# Nam Ngum is a main Mekong tributary



# Lao National Water Resources Policy and Strategy

*Formation of National Policy, Strategy and 5-Year Action Plan 2011-2015 (by Department of Water Resources, MoNRE);*

*...this will be adopted by government of Lao PDR*

## **Vision**

**is coordinated, optimized and sustainable development and use of water resources, protection of the environment and improvement of social well-being.**

# Lao National Water Resources Policy and Strategy (cont.)



# Nam Ngum RB Profile

## ISSUES:

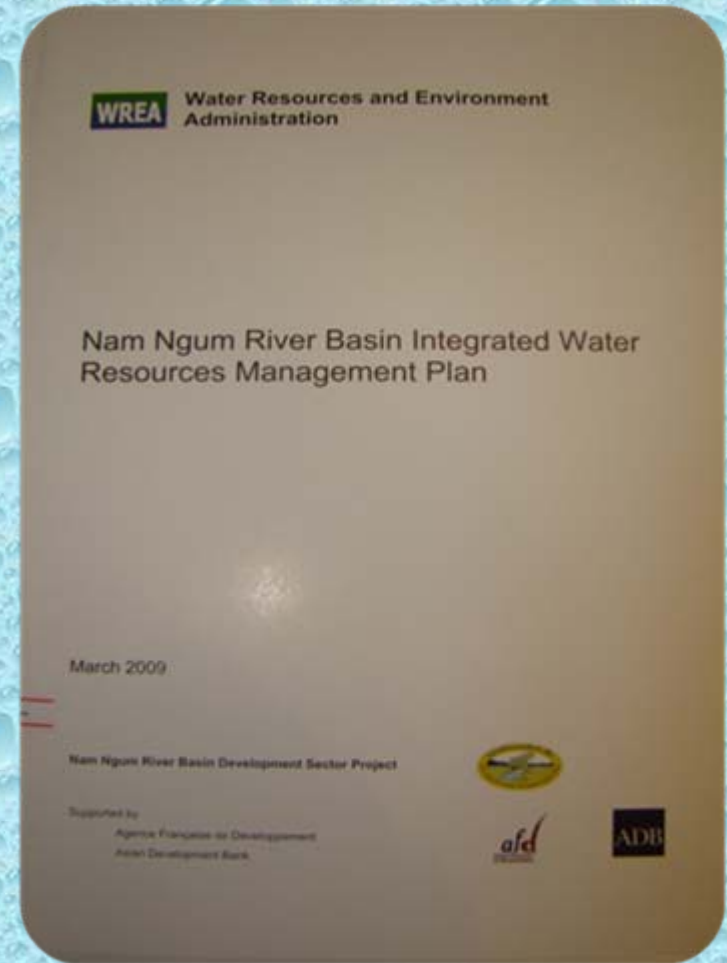
- lack of knowledge, experiences and inadequate capacity;
- water use for various purposes;
- hydropower development;
- irrigation schemes have increasingly developed throughout the basin;
- lack of sub-basin management plans
- impact from water related disaster – flood & drought.

<u>Physical Features</u>	
Area	16,800 square km (7% of national area)
Length	354 km
<u>Water Resources</u>	
Average Flow to Mekong River	22 billion m <sup>3</sup> / year (14% Mekong Flow)
Annual Water Use	9.1 billion m <sup>3</sup> Agriculture: 99% Urban: 0.5% Industrial: 0.1%
<u>Land Cover and Use</u>	
Natural Forest	47%
Shrub land / Re-growth	34%
Agriculture	8%
Grassland	7%
Water surface	3%
Urban area	0.02%
<u>Administration</u>	
No. of provinces	5
No. of District	19
Population	502,000 persons (9% of Lao PDR)

# Nam Ngum IWRM Plan (2009) included...

## 6 Key Results Areas of the Plan:

1. Building the capacity to manage NNRB;
2. Sustainable water use;
3. Optimizing hydropower outcomes;
4. Developing the sustainable irrigation potential of the basin;
5. River sub-basin management;
6. Reducing risks and impacts from water related disaster.



**---- First IWRM plan and will be served as template for river basin management elsewhere in Laos.**



# Lao-French Cooperation

## - IWRM in Nam Ngum River Basin

### ❖ Lao Counterpart:

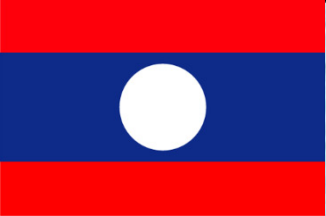
Nam Ngum River Basin Committee Secretariat (NNRBCS),  
Ministry of Natural Resources and Environment (MoNRE)

### ❖ French Side (Donor):


The International Office for Water (OIEau) is responsible  
for overall coordination, and fund supported by:

- **Loire-Brittany Water Agency: €100,000**
- **Rhine-Meuse Water Agency: €100,000 (2 phases of €50,000)**

**Implementation Period: 2 years (2011 – 2012)**



# Nam Ngum RB – Pilot Project



## Aims:

at initiating an Integrated Water Resources Management (IWRM) process, through a pilot application in the Nam Ngum river basin;

## Experiences:

Lao PDR will have gained concrete experience of development and will have tested the key IWRM tools, i.e. planning; empowering local stakeholders; finance mechanisms.

*(...which will adapt the French/Europe model to Lao river basin management context)*



# Project Components – (Quatre)



**Component 1:** General coordination and project promotion;

**Component 2:** Institutional support and training for water resources management planning coordination at river basin and sub-basin levels;

**Component 3:** Setting up of a water information system;

**Component 4:** Study of potential implementation of polluter-pays principle.

# Progress and Implementation

- **Nam Ngum River Basin Committee and Secretariat established (2010);**
- **Int'l Seminar on River Basin Management, held in March 2011, Vientiane, Lao PDR (supported by l'Agence Française de Développement - AFD)**
- **MoU between MoNRE and the French International Office for Water (OIEau) signed;**
- **Proposed of 1rst French expert team mission to Lao PDR (19-23 Sep 2011) – team training, line agencies workshop...;**
- **Nam Ngum team has been set up (lead by Mr. Chanthanet Boualapha, ADG of DWR and DG of NNRBCS)**



**Nam Ngum River Basin Committee  
Secretariat**



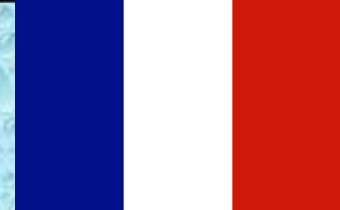
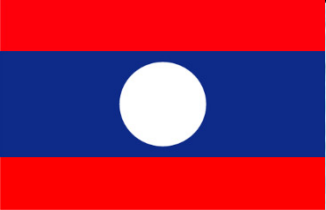
**Int'l Seminar on River Basin Management,  
28-29 March 2011, Vientiane, Lao PDR**



# Next Step



- Implement the full function of this [Lao-French Pilot Project](#) and [NN IWRM Plan](#) effectively assuring the sustainability of the NNRB management (in cooperation with French expert);
- Setting up project office in Lao PDR – [Vientiane and Nam Ngum Basin](#) (Viengkham District)
- [Build capacity](#) of NNRBC/secretariat and Sub-basin RBCs in order to implement the basin/sub-basin plans (Nam Xong & Nam Kho, Nam Lik and at least other 3 more sub-basins by 2015).
- Assessment of water use for livelihood subsistence for further water use planning;
- Continuously [collecting and updating data](#) - populations, water use, livelihoods, water discharge ...
- Study reservoir modeling considering [flood & drought management](#) and planning in collaboration with relevant stakeholders/ministries;
- Continue to screen the [Water Quality](#) in the basin and prepare the action plan;
- Ensure the [sustainable NNRB management financing](#) - Continue to study on NNRB / Water Resources Fund Establishment.
- [Prepare guidelines](#) of RB/Sub-basins planning;



# Future Lao-French Cooperation

- Require for the wide-range support to fully implementation of Nam Ngum IWRM Plan in achieving all the 6 key result areas (both TA & Financial);
- Enhance the long-term cooperation in area of water resources and river basin management, study exchange in France (lessons learned from France/Europe);
- Further cooperation with other experienced French Water Agencies, l'Agence Française de Développement – AFD, other development partners and donors...



*Merci Beaucoup!*



[www.wrea.gov.la/NamNgum](http://www.wrea.gov.la/NamNgum)

Tel/Fax: +856-23 431 647/ +856-21 260 983-4