

## IWRM Framework

### Preparation Document

#### Justification

1. Integrated Water Resources Management (IWRM) is a process which promotes the coordinated development and management of water, land and related resources in order to maximize economic and social welfare in an equitable manner without compromising the sustainability of vital ecosystems and the environment. IWRM helps to protect the world's environment, foster economic growth and sustainable agricultural development, promote democratic participation in governance, and improve human health. Worldwide, water policy and management are beginning to reflect the fundamentally interconnected nature of hydrological resources, and IWRM is emerging as an accepted alternative to the sector-by-sector, top-down management style that has dominated in the past<sup>1</sup>.
2. Many Manuals and Guidelines have been written to help mainstreaming IWRM in multi-sector investments and planning exercises. One of these manuals that was already tested in several Asian River Basin is the "IWRM Guidelines at River Basin Level" from UNESCO-NARBO<sup>2</sup>. This document explains very well the IWRM Spiral and Process to be applied for River Basin management. Several case-studies illustrate how to put the theory into practice. On a regional level, it is important to mention the document "Manual for Training Trainers in Integrated Water Resources Management in the Mekong Basin"<sup>3</sup> carried out by MRC.
3. IWRM is now recognized as the basic strategy for managing Water Resources in Lao PDR and tests in Pilot River Basins and Watersheds are now at different stage of development. But even if general guidelines are now quite well developed and understood, the implementation remains subject to many constraints that are specific and that need tailored-made approaches. It is why implementing IWRM in Lao PDR, as in any other country world-wide, is an actual complex challenge made of success and failure stories.
4. This training refers to the Course N° 11 in the Training Plan under the name "Legal Framework for IWRM". Nevertheless, the concept developed in this document enlarges substantially the Legal Framework to cover the other core aspects of IWRM. In such a way, this Training will be relevant to all NIWRMSP staff of the different components that are involved in the various disciplines of water resources management. As it will be the first training to be organized, it is important, in addition to specific IWRM skills, to deliver enhancement of Team Building spirit and bases for further staff networking.

#### Expected Outputs

5. The expected outputs are :
  - **Pragmatic IWRM Key Messages, that fit with the specificities of the Lao context that would be built interactively with the Trainees** : The Training on "IWRM Framework" is expected to develop and reinforce capacities of the Trainees for passing from IWRM Theories to Practical Implementation in Lao PDR and its river basins and watersheds. Coming out with recognized Key Messages is expected to create "Water Leadership" capacities.

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<sup>1</sup> Global Water Partnership : What is IWRM - <http://www.gwp.org/The-Challenge/What-is-IWRM/>

<sup>2</sup> <http://unesdoc.unesco.org/images/0018/001864/186417e.pdf>

<sup>3</sup> <http://www.mrcmekong.org/assets/Other-Documents/BDP/BBDP2-MRCS-IWRM-Training-Manual-2011.pdf>

- **Building a “Team Spirit” among the participants** : This training module is an opportunity to bring the NIWRMSP staffs together and enhance Team Building amongst the participants. The training on “IWRM Framework” will meet a wide range of staff, dealing with different disciplines related to water resources management, around the table. This would be an actual asset for better achievement of coordination and communication among NIWRMSP components.
- **Provide guidelines helping to fine tune the Training Plan and coordination and communication activities**

### **Main topics covered**

6. The training will focus on two key concepts of IWRM :
  - Develop relevant Water Governance Tools which include
    - Legal and Institutional Tools (water law, water policies, water strategies)
    - Water Dialogue Tools (river basin and watershed organizations, stakeholders, information sharing, awareness,...)
    - Decision Tools (Data and Information gathering, analysis, models,...)
  - Develop step-wise process for mainstreaming IWRM in Basin and River Management (basin and watershed profile, developing a vision, road map, action plans, impacts monitoring,...)

### **Methodology**

7. As many participants have already a sound knowledge of IWRM principles and practical experience in implementation, the training will be more oriented on developing analysis of the relevance, strengths (success stories) and constraints (failure stories) referring to the respective core areas defined here above. Group discussions must allow interactivity between staff from different disciplines, help building Key Messages that fit with the Lao specificities, support Team Building and eventually enhance Water Leadership capacities. The methodological tools will be as follows :
8. **KEYNOTES** : In order to set up a common language amongst the participants and share knowledge and progress regarding NIWRMSP components, keynotes will be presented on these Lao case studies framing on IWRM Key Concepts for facilitating further discussions.
9. **DISCUSSION GROUPS** : Discussion Groups will be set up for analyzing the relevance, strength and weakness of the IWRM areas in the context of water resource management in Lao PDR.
10. **ROLE PLAY** : Simulation of a River Basin Organization-Water Dialogue meeting where the participants will have to represent the different stakeholders, represent their interests and try to find a fair tradeoff. The starting point of the role play would be virtual watershed, but having similar issues to what is generally featured in Lao PDR. The starting point of the role play would be a short watershed profile document. The participants would develop Issues and Trends, Shared Vision, elements of Road Map.
11. **FIELD VISIT** : A field visit to a watershed will be organized. Different elements of IWRM implementation will be reviewed by the Trainees and the Watershed stakeholders. IF the training is organized in Vientiane City, it is suggested to visit Nam Ton watershed, which is not part of NIWRMSP activities, but in which significant progress have been done for IWRM development (water resources monitoring, land and water use planning, water dialogue at different levels (villages, sectors, private investors), inter-provinces/districts collaboration.

12. WRAP UP PANNEL: By the end of the training, the participants would be invited to wrap up what they have cached up from the training (via a questionnaire). Key Messages, evaluation and advises for further training and capacity building steps will be delivered by a group of panelists.

It is also suggested that participants develop key messages and policy recommendations on water management in Lao PDR in different topics and present to the high level representatives at the end of the Training. This should be a highlight of this Training course. Specific topics will be dialogued and determined during the training.

## Modules

<p><b>Day1</b></p> <p>Module1: IWRM GOVERNANCE TOOLS</p>	<p><b>1.1 KEYNOTES</b> IWRM Setting the scene – Water Governance Tools</p>	<p>*Upgrading the IWRM concept. Critical lessons learnt and turning points of IWRM implementation globally and regionally</p> <p>*IWRM Tools (Institutional, Dialogue, Decision); At what milestones Lao PDR has reached?</p> <p>*Areas for SWOT - Evaluation matrix – benchmarking progress</p>
	<p><b>1.2 WORKING GROUPS</b> (Presentations and debates)</p> <p>Water Governance Tools SWOT analysis &amp; bench marking</p>	<p>Working Groups (Presentations and debates) : IWRM tools – Strengths and Weaknesses analysis based on evaluation matrix and group/plenary discussions</p> <p><b>WG1:</b> Institutional Tools (Water Law, Strategy, Policy)</p> <ul style="list-style-type: none"> <li>- Presentation of case studies             <ul style="list-style-type: none"> <li>I. Draft Water Law, Q&amp;A</li> <li>II. Nam Ngum River Basin, Q&amp;A</li> </ul> </li> </ul> <p>Group work and debate – Critical analysis on strengths and weaknesses</p> <p>-----</p> <p><b>WG2:</b> Decision Tools (Data and Information systems, sharing information, data &amp; information analysis &amp; models)</p> <ul style="list-style-type: none"> <li>- Presentation of case studies             <ul style="list-style-type: none"> <li>I. EIA/SIA</li> <li>II. Modeling and Scenarios</li> </ul> </li> </ul> <p>Group work and debate – Critical analysis on strengths and weaknesses</p> <p>-----</p> <p><b>WG 3:</b> Dialogue Tools (mapping stakeholders, organizing stakeholders meeting, information &amp; knowledge sharing, awareness, communications, formal and informal dialogue)</p> <ul style="list-style-type: none"> <li>Presentation of case studies             <ul style="list-style-type: none"> <li>I. MRC BDP basin planning</li> <li>II. A case study from non-state group (TBC)</li> </ul> </li> </ul> <p>Group work and debate – Critical analysis on strengths and weaknesses</p>

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<b>Day 2</b> Module 2 : IRBM MAINSTREAMING IWRM PROCESS IN PLANNING CYCLES	2.1 KEYNOTES IWRM Setting the scene – IWRM cyclic step-wise process	What is/are river basin planning(s)? How do they work?  *Basin-Watersheds profile *Issues and trends *vision *road map *action plans *monitoring and analysis of impacts
	2.2 ROLE PLAY Mainstreaming IWRM in the planning cycle – “How can we work together? Where are the roles of DWR at?”	Working Group(s) *Developing Case Studies by using existing cases of river basin management in Laos i.e. Nam Ngum, Xe Bang Hien, Nam Thun Krading and Sedone, *Simulate how RBO, Watershed Committees, Water Dialogues Platform can support the IWRM process (Role play) * Critical Analysis on Strengths and Weaknesses and debates
<b>Day 3</b> M3 : FIELD VISIT : THE NAM TON WATERSHED	3.1 FIELD VISIT	*Water Dialogue process * Participation in river basin management *Water Monitoring (surface water, groundwater, water quality)
	3.2 WORKING GROUP Evaluation	*Strengths and Weaknesses of this case study
<b>Day 4</b> M4 : WRAPPING UP AND EVALUATION	4.1 WORKING GROUPS	*Wrapping up – writing key messages on IWRM framework WG 1 : Water Governance Tools WG 2 : Mainstreaming IWRM WG 3 : Team Building : Further steps (communications, website, on line training, etc...)
	4.2 GROUP PRESENTATION TO HIGH LEVEL and PIENERY Dialogue	* Water Policy Recommendations for Lao PDR * Highlight lessons learnt from the Training
	4.2 KEYNOTES Wrapping up of M1 to M3	* Ways forward
	4.3 EVALUATION	Evaluation Questionnaire and analysis

### Target Components/Focal Points

	<b>NIWRMSP Components</b>	<b>Funding Source</b>	<b>DPT</b>	<b>Focal points</b>
1	National IWRM Capacity Building	ADB- Package 1	DWR	<u>Head of Component</u> Mr Bounsanong Fongnaly
2	River Basin and Sub basin Management	ADB- Package 2	DWR/RBC	<u>Head of Component</u> Mr Souphasay Komany
3	Strengthening Groundwater Management	ADB- Package 3	NREI	<u>Head of Component</u> Mr Oulaphone Ongkeo
4	IWRM Bachelors degree Course at the University of Laos	ADB- Package 4	NUoL	<u>Head of Component</u> Mr Bounyom Thoummavong
5	Support for drafting the new Water Resources Law	WB-C2.1	DWR	<u>Sub-Component Manager</u> Mr. Kingkham Manivong <u>Sub-Component Assistant Manager</u> Mr Thatsakone

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6	Support for Water quality and Aquatic Ecosystem Health	WB-C2.2	NREI	<u>Sub-Component Manager</u> Ms. Darounny Vilaythong <u>Sub-Component Assistant Manager</u> Ms Sethouvan Phanthavongsa
7	Support for Water Resources Modelling	WB-C2.3	NREI	<u>Sub-Component Manager</u> Mr. Oulaphone Ongkeo <u>Sub-Component Assistant Manager</u> Mr Khonetavanh Douangchanh
8	Support for Strengthening the Hydromet Network	WB-C2.4	DMH	<u>Sub-Component Manager</u> Mr Singthong Pathoummady <u>Sub-Component Assistant Manager</u> Mr Bounteum Sysouphanthavong
9	River Basin and Floodplain Management in Pilot Tributaries XF/H	WB-C3.1	DWR PoNRE/NREO Khamouane PoNRE/NREO Savannakhet	<u>Component Manager</u> Mr Thanongxay Douangnoulak <u>PoNRE Khammouane</u> Mr Sipathai <u>PoNRE Savannakhet</u> Mr Inphasith
10	Support for improved Management of Aquatic Resources in the Mainstream Mekong and Sekong Province	WB-C3.2	DLF PLFS	<u>Supervisor</u> Mr Bounthong Saphakdy <u>Coordinator</u> Mr Akhane Phomsouvanh <u>Manager (Champassak)</u> Mr Lankeo Phengaloune
11	SUMALOM Nam Ton Watershed	(KfW)	DWR	<u>PIU Manager</u> Mr Thanongxay Douangnoulak

**Time Frame – November 11-15, 2013**

Day 1	Module 1 : IWRM GOVERNANCE TOOLS
Day 2	Module 2 : IRBM MAINSTREAMING IWRM PROCESS IN PLANNING CYCLES
Day 3	Module 3 : Field Visit
Day 4	Module 4 : Wrap Up – Key Messages

**Resources**

	<i>Training Resources</i>	<i>Preparation Resources</i>
1.1 KEYNOTES IWRM Setting the scene – Water	<i>Panelists</i> – Case Studies : (i) Building the Water Law; (ii) Water quality and Aquatic Ecosystem Health; (iv)Hydromet; (v)	

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Governance Tools	groundwater management; (vi) modeling; (vii) Flood plain management; (viii) Water Governance Tools benchmarking framework <i>Facilitator</i>	
1.3 WORKING GROUPS Water Governance Tools SWOT analysis & benchmarking	<i>Facilitator</i>	<i>Water Governance Tools benchmarking frame</i>
2.1 KEYNOTES IWRM Setting the scene – IWRM cyclic step-wise process	<i>Panelists</i> – Case Studies : (i) Nam Ngum RBO; (ii) ... (iii) Nam Ton Watershed ; (iv) IWRM mainstreaming process - benchmarking framework <i>Facilitator</i>	
2.2 ROLE PLAY Mainstreaming IWRM in the planning cycle	<i>Facilitator</i> (playing the role of the Chairman of the RBO)	<i>Virtual Watershed profile</i>
3.1 FIELD VISIT	<i>Organisator (logistic, contacts, ...)</i>	
4.1 KEYNOTES Wrapping up of M1 to M3	<i>Facilitator</i>	
4.1 WORKING GROUPS	<i>Facilitator</i>	
4.2 KEYNOTES Wrapping up of M1 to M3	<i>Panelists:</i> <i>Facilitator</i>	
4.3 EVALUATION	M&E expert	