



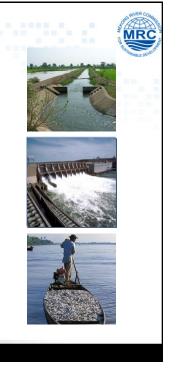
## **BioRA** Objective

To provide clear and comparable information on the positive and negative impacts of proposed water resources developments on the aquatic resources of Mainstem Lower Mekong River, inclusive of the Tonle Sap Great Lake and the Mekong Delta.

Greater and documented detail than SEA or BDP

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- Transparent
- Repeatable



# BioRA Scope of Activities

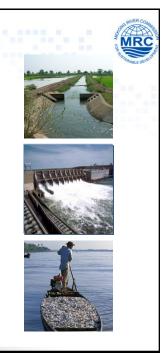
In order to accomplish the BioRA objective, the following technical activities are involved:

- Comprehensively review and consolidate existing knowledge on ecosystem status and trends in the LMB
- Identify and quantify at the fundamental level the stressor-response relationships (i.e., response curves) between important ecosystem elements (i.e., represented by a number of indicators under each of the 6 non-IKMP disciplines)
- Based on these relationships, build a new ecosystem model for the LMB (proposed to be called hereinafter as ECO-LMB) based on DRIFT
- In conjunction with DSF and other CS models, apply ECO-LMB to determine positive and negative impacts of WR developments
- Build capacity of the Member Countries to perform similar assessments using ECO-LMB (primarily via learning by doing approach such as this workshop)

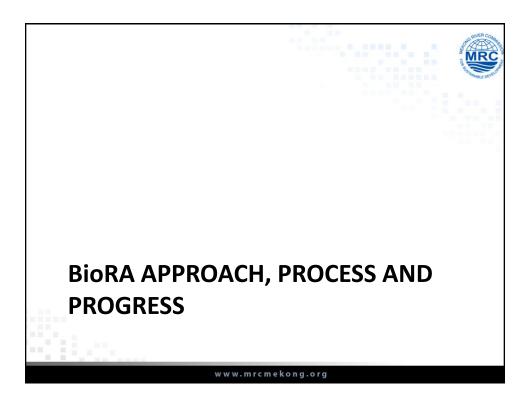
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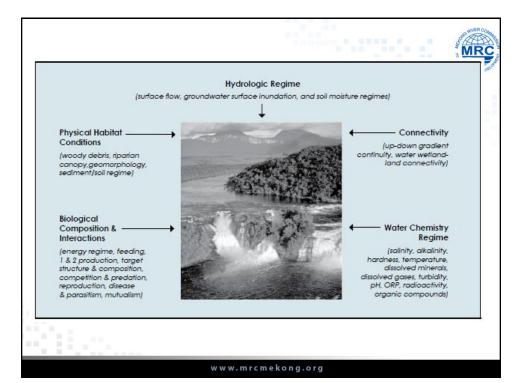
## Workshop Objectives

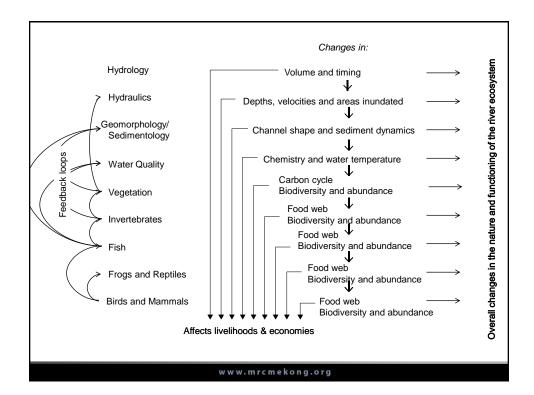
- Continue the process of transferring the knowledge to the Member Countries (Interim Reports, and ECO-LMB)
- Test the preliminary ECO-LMB as per requirement of the MCs
- Compile comments on the interim reports and the ECO-LMB

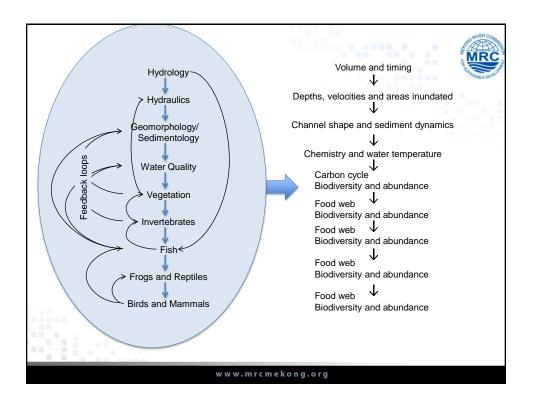


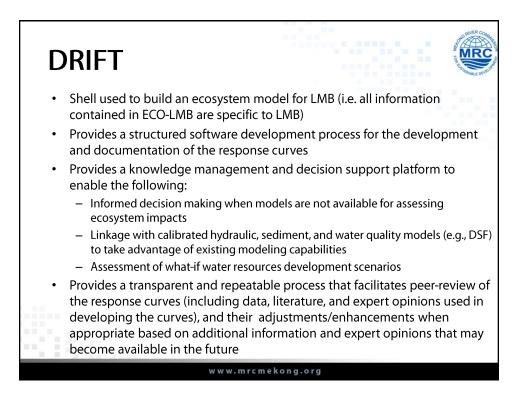
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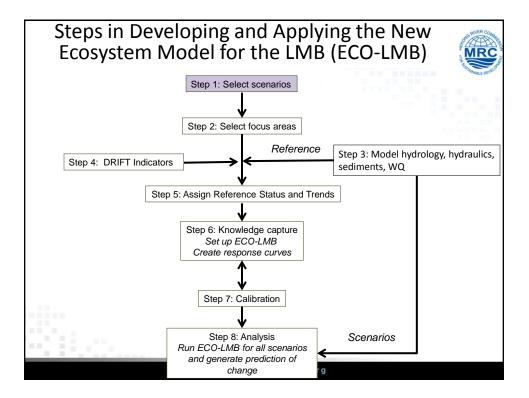


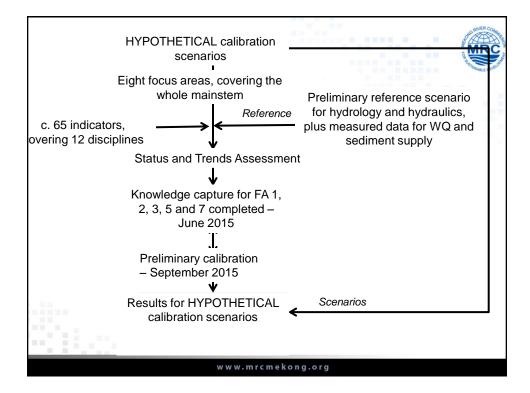


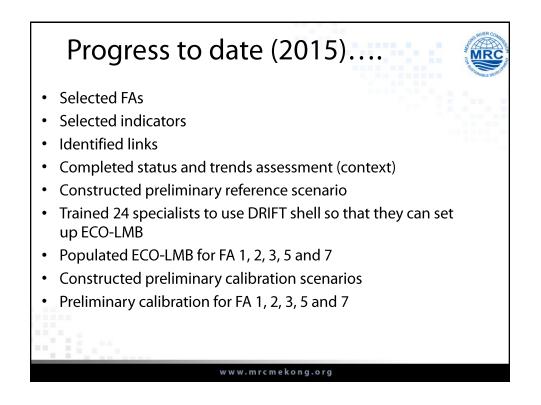


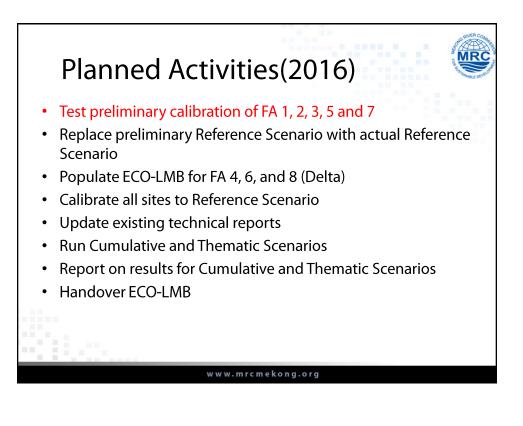










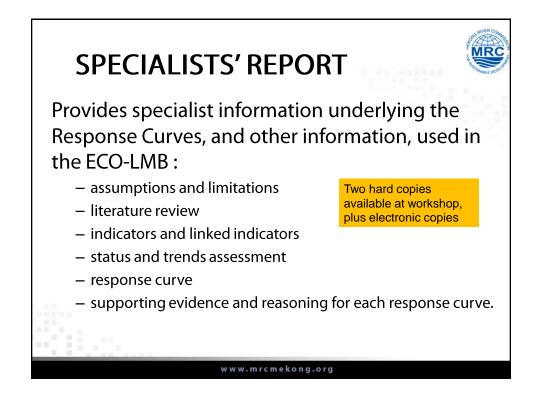


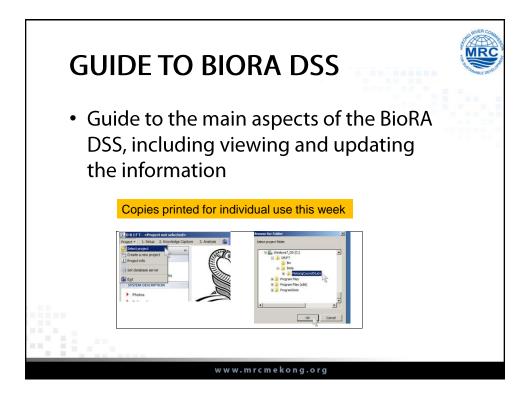


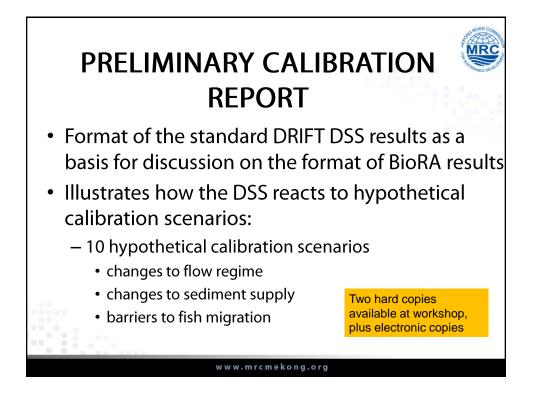
### **BioRA Reports to date**



Report	Date	Contents		
Progress Report 1	April 2015	Focus Areas Indicators		
Progress Report 2	August 2015	Status and Trends Assessment Initial DSS Set-up		
Interim Technical Report 1 (Vol. 1) <b>SPECIALISTS' REPORT</b>	December 2015	<ul> <li>Updated Status and Trends</li> <li>Indicators</li> <li>Linked indicators</li> <li>Response curves</li> <li>Motivations</li> </ul>		
Interim Technical Report 1 (Vol. 2) GUIDE TO VIEWING AND UPDATING THE BIORA DSS	December 2015	Basic User Manual		
Interim Technical Report 1 (Vol. 3) PRELIMINARY CALIBRATION REPORT	December 2015	Outcome of KCW and Preliminary Calibration Workshop		
BioRA DSS (Preliminary Calibration)	December 2015			
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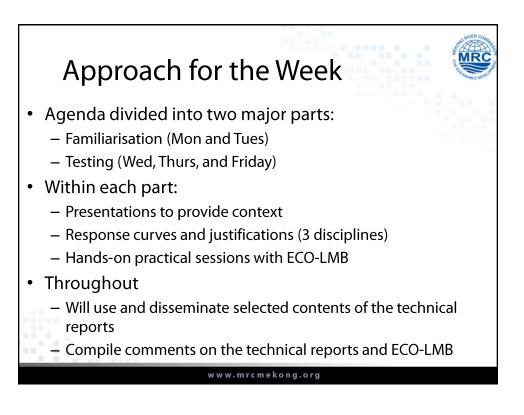






	<b>BioRA Technical Reports in 2016</b>			
	Report	Expected Due Date	MARLE DE	
	Specialist's Report (Update)	September 2016		
	Guide to Viewing and Updating ECO-LMB (Update)	December 2016		
	BioRA DSS Calibration Results (Update)	October 2016		
	Draft Technical Report for the cumulative scenario (New)	December 2016		
	Draft Technical Report for thematic scenarios (New)	December 2016		
	Software: ECO-LMB DSS (Update)	December 2016		
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# ECO-LMB Software



## Version 2.75

- Use throughout the workshop
- Load on individual laptops after the coffee break
- BioRA Team will guide installation

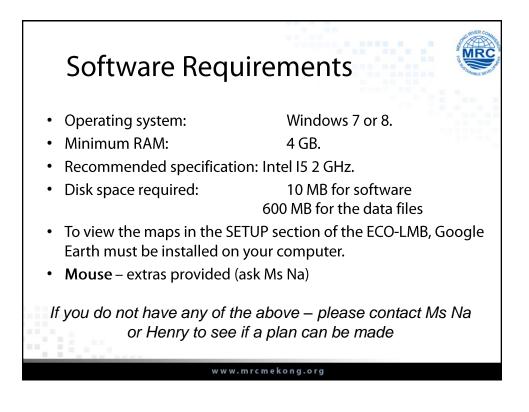
Familiarisation:

- Guide to BioRA DSS
- Specialists' Report

Testing:

- Prelim. Calibration Report (1<sup>st</sup> 10 calibration scenarios)
- Handouts for additional testing scenarios

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WORKSHOP FACILITATORS				
Name	BioRA role	Workshop role		
Dr Henry Manguerra	Council Study Coordinator	Process		
Dr So Nam	BioRA Manager	Oversight		
Dr Cate Brown	BioRA Technical Coordinator	Process Hands on DSS General queries		
Dr Alison Joubert	DRIFT DSS Manager	Hands on DSS Technical issues		
Dr Lois Koehnken	Geomorphology Lead	Hands on DSS Geomorphological queries		
Prof. Ian Cowx	Fish Lead	Hands on DSS Fish queries		
Dr Hoang Minh Duc	Herpetology Lead	Hands on DSS Herpetofauna queries		
BioRA National Consultants	National Expert Support	Hands on DSS Discipline queries		
Ms Manothone Vorabouth	Council Study Administration	Administration and Logistics		
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# **Recording Comments**



#### Please:

- Take a notebook from the back table, and label it with:
  - BioRA DSS Workshop
  - Your Name
  - Your Country
  - Your Affiliation
- Record all comments/suggestions in the note book
- Hand notebook to Ms. Na at the end of the workshop ٠
- These will be collated into the workshop report, and responded to in the Report or DSS reviews
- This is to ensure we do not miss vital comments

Please also feel free to raise questions or comments at any time. There is also some time to discuss the comments and feedback on Friday

