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BACKGROUND

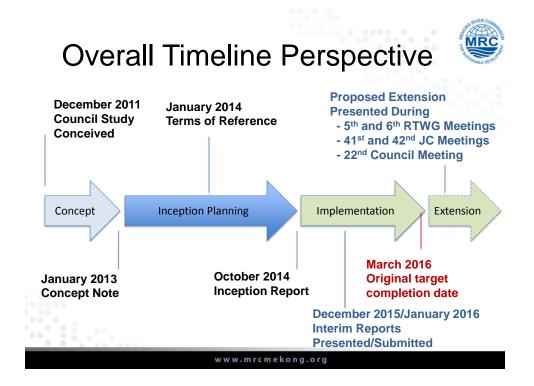


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Objectives

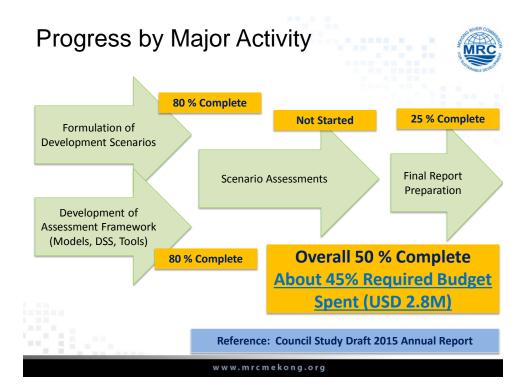
- Further develop/establish a reliable scientific evidence of positive and negative environmental, social, and economic impacts of water resources development
- Integrate results into the MRC knowledge base to enhance the BDP process
- Promote capacity and ensure technology transfer to Member Countries





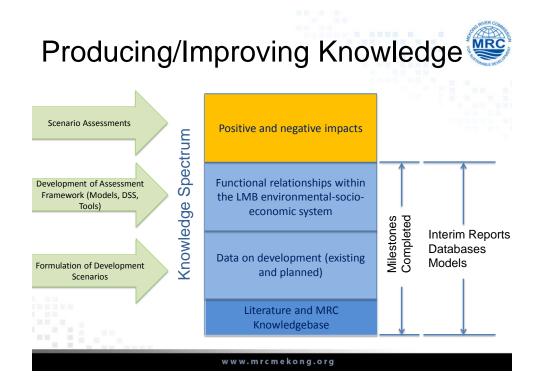


OVERALL PROGRESS





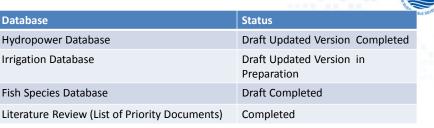
ACCOMPLISHMENTS (IF WE STOP NOW)



Interim Reports

Reports (as per Inception Report)	Status
6 Thematic Reports	5 Draft Interim Thematic Reports Completed
	Draft Interim Thematic Report on Domestic/Industrial In Preparation
1 Cumulative Report	Planned for Phase 2 and will serve as Main Report
4 Technical Reports (Modeling, Bioresource Assessment, Socio- Economic, Climate Change)	3 Draft Interim Technical Reports Completed Draft Technical Report on Climate Change in Preparation
6 Working Papers on Development Scenarios	5 Draft Working Papers Completed Draft Working Paper on Domestic/Industrial in Preparation

Updated Databases and Models



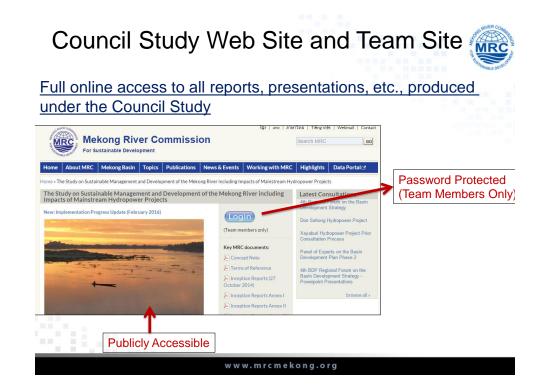
Models and Tools	Status
Calibrated DSF (SWAT, IQQM, ISIS) for 1985 – 2008	Partially Calibrated
WUP-FIN integrated with DSF	In Preparation
eWater Source integrated with DSF	In Preparation
BioRA DSS (Ecosystem Model/Assessment Tool)	Draft Version Completed
Socio-Economic Assessment Methodology	Methodology Developed

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Capacity Building, Technology Transfer, and Consultation Meetings



Activities	Status
RTWG Meetings and Implementation Startup Workshop	Completed
Regional Technical Workgroup Meetings	Completed
National Consultations	Completed
Technical Workshops on WUP-FIN	Completed
Technical Workshops on eWater Source	Completed
BioRA DSS Technical Workshop	Completed
BioRA Knowledge Capture Workshop	Completed



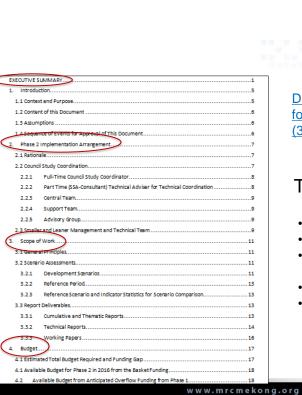
Bottomline Statements

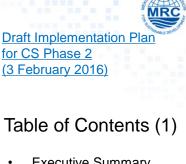


- Achieved significant accomplishments (50 percent complete)
 - In over a year of implementation when three years of implementation was originally planned
 - Despite all the challenges and constraints
- Achieved these accomplishments for about 45 percent of the original budget required (USD 2.8M)
- If we stop and conclude the Council Study now
 - Significant new and improved knowledge has been gained
 - Momentum may be lost but not the knowledge gained because they are fully documented and can be reused easily in the next project (available at the Council Study Team Site)
 - MCs are more informed and capable



IMPLEMENTATION PLAN PHASE 2

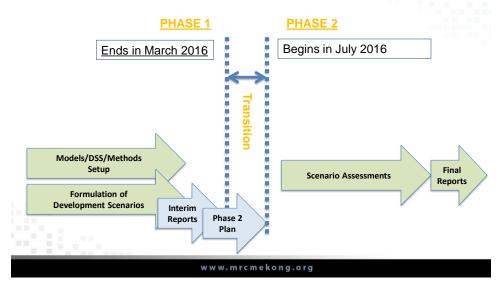


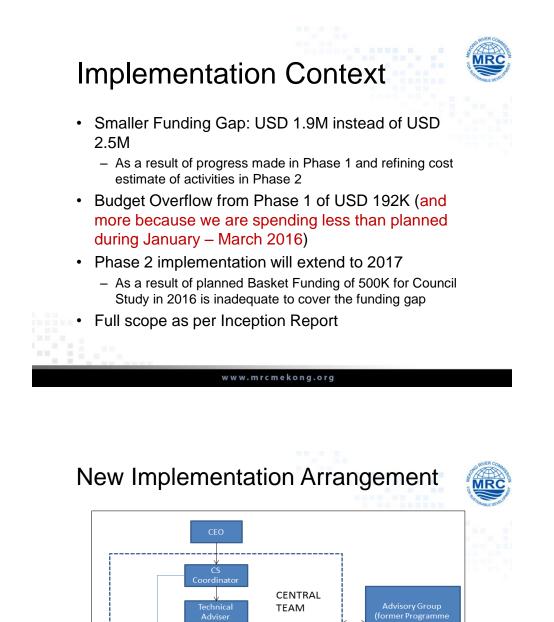


- **Executive Summary**
- ٠ Introduction
- Implementation Arrangement
- Scope of Work •
- Available Budget

4.3 Summary of Available Budget for Transition Phase and Phase 2. 5. Implementation Details of Phase 2 in 2016.	
Implementation Guiding Principles. Technical Scope of Phase 2 2016. Establishing and Funding the Central Team for 2016. Establishing and Funding the Support Team for 2016. Funding the Process. Source of Phase 2 in 2017 Including Project Closeout Implementation Details of Phase 2 in 2017 Including Project Closeout Overall Summary of Budget Available and Required. Implementation Details of Phase 2 in 2017 Including Project Closeout Options for Reduction in Cost and Scope of Work. I Delay the start of Phase 2 to 1 0 clober 2016 and keep the transition activities at the minim 32 Reduce the scope reduction Considerations in 2017. Risk Margement Optical Study Or Study Implementation and Lessons Learnet Annex A. Estimated Budget for Phase 1 Remaining Activities. Annex B. Council Study Draft 2015 Annual Report	 Table of Contents (2) Implementation 2016 Implementation 2017 Available vs. Required Budget Overall Schedule Implementation Options Risk Management Lessons Learned







(2) Senior Technical Staff/Sector Lead – Hydropower/Navigation/Flood



IMPLEMENTATION OPTIONS

Implementation Options



Option	Scope	Transition Phase	Start of Phase 2	Funding Gap in 2016*	Funding Gap
Option 1 Preferred Option	Full Scope	April – June 2016	July 2016	370K	1,019K
Option 2 Delayed Start	Full Scope	April – September 2016	October 2016	0	1,389K
Option 3 Reduced Scope in 2016	Full Scope	April – June 2016	July 2016	0	1,389K
Option 4 Reduced Overall Scope	Reduced Scope	April – June 2016	July 2016	0	TBD – None Potentially
*On top of the 500K of MRC Basket Funding already allocated to the Council Study					

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On top of the 500K of MRC Basket Funding already allocated to the Council Stuc

Option 1: Preferred Option							
Option	Scope	Transition Phase	Start of Phase 2	Funding Gap in 2016	Funding Gap		
Option 1 Preferred Option	Full Scope	April – June 2016	July 2016	370K	1,019K		

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Option 2:	Delayed Start	
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Option 2: Delayed Start							
Option	Scope	Transition Phase	Start of Phase 2	Funding Gap in 2016	Funding Gap		
Option 2 Delayed Start	Full Scope	April – September 2016	October 2016	0	1,389K		

- Team working full time for 3 months in 2016
- Advantages
 - Longer transition period will provide more time to complete outstanding tasks in Phase 1 and also more time to recruit personnel
 - Compatible with SC consultants paid on a monthly full time basis (i.e., CS Coordinator, riparian and national modellers)
- Disadvantages
 - Loss of momentum and associated increase in total budget required
 - Not enough tangible results by the end of 2016
 - Higher budget required in 2017

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Option 3: Reduced Scope in 2016 Option Scope Start of **Funding Gap Transition Phase** Funding Phase 2 Gap in 2016 Option 3 Full Scope April – June July 2016 0 1.389K Reduced Scope in 2016 2016

- Team working part time for 6 months in 2016
- Advantage
 - Short transition period will maintain urgency and keep momentum to some extent
- Disadvantages
 - Reduced scope may not be compatible with consultants who are traditionally hired as full time consultants (e.g., riparian modellers)
 - Loss of momentum and associated increase in total budget required
 - Not enough tangible results by the end of 2016
 - Higher budget required in 2017
 - Reduced scope may involve delaying the thematic assessments for 2017

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Option 4: Reduced Overall Scope

Option	Scope	Transition Phase	Start of Phase 2	Funding Gap in 2016	Funding Gap
Option 4 Reduced Overall Scope	Reduced Scope	April – June 2016	July 2016	0	TBD – None Potentially

- Team working full time for 6 months in 2016
- Advantage
 - Compatibility of budget availability with the reduced scope
- Disadvantage
 - Potentially will take time for MCs to agree on the reduced scope thereby delaying the implementation further



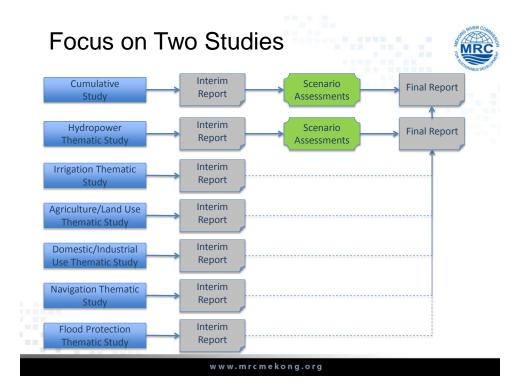
OPTION 4: REDUCED OVERALL SCOPE

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Reduced Overall Scope



- <u>Current Scope</u>: Equivalent to seven (7) studies
 - 1 cumulative study (similar to the BDP2 Study)
 - 6 thematic studies (one of which, hydropower thematic study, is similar to the Mekong Delta Study)
- <u>Reduced Scope:</u> Focus on two studies
 - Cumulative Study to update and extend the BDP2 study
 - Hydropower Thematic Study to validate and
 - extend the Mekong Delta Study



Study 1: Cumulative Study -Extending/Updating BDP2 Study



- Greatest/Latest Data
 - Thematic data
 - Flow, sediment, water quality
 - Socio-economic (SIM/VA)
- New set of future development scenarios (2020, 2040)
- New set of climate change scenarios
- Improved models/tools
 - WUP/FIN and eWater models integrated with an improved DSF
 - New ecosystem model (BioRA DSS)
 - Improved socio-economic assessment methodology

Study 2: Hydropower Thematic Study - Validating/Extending the Mekong Delta Study

- Conduct a planning workshop to explore this option
 in more detail
- Identify and perform analysis to validate/supplement/extend the Delta Study and answer remaining outstanding questions/knowledge gaps
- Identify data, models/tools, and results that can be integrated with the assessment framework of the Council Study



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SUMMARY

Concluding Remarks

- Council Study has accomplished significant, tangible, and documented milestones for less money
 - Interim reports, database, and models
- Waiting for comments of MCs to improve and finalize the interim reports
- Need clear decision on what implementation option to select

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The Joint Committee is kindly requested to:



- Take note of progress and accomplishments
- Approve proposed implementation plan
- Select implementation option for Phase 2 (and corresponding transition phase)

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*On top of the 500K of MRC Basket Funding already allocated to the Counc						



ADDITIONAL DETAILS

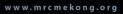


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Overall Schedule and Budget Constraints

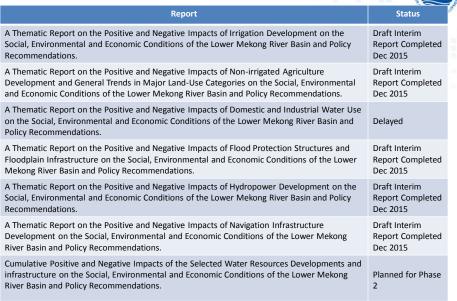


- · Compressed implementation schedule
 - 1.5 Year of implementation instead of original plan of 3 Years
- USD 2.5M Funding Gap
 - Out of the USD 6.2M external funding required



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Cumulative and Thematic Reports



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Technical Reports

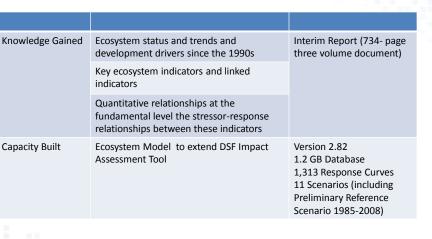
Report	Status
Hydrology, Sediment, and Water Quality Data, and Results Report for the Assessment of Positive and Negative Impacts of Selected Water Resources Developments and Infrastructure in the Lower Mekong River Basin – A Report for the Council Study.	 Completed the following technical reports (Dec 2015): ISIS Baseline Model for Mekong River in Upper Kratie Improvements of the ISIS LMB Baseline Scenario Model SWAT Model for Sediment and Nutrient Simulation in the Mekong River Basin The Sediment and Nutrient Data Available and Analysis for the DSF model Simulation in the Lower Mekong Basin eWater Source Model (Baseline 2007): Application in the Upper Mekong River Basin
Bioresources Assessment of the Positive and Negative Impacts of Selected Water Resources Developments and Infrastructure in the Lower Mekong River Basin – A Report for the Council Study.	Completed the following technical reports (Dec 2015): Volume 1: Specialists' Report Volume 2: Guide to Viewing and Updating the BioRA DSS Volume 3: Preliminary Calibration Report
Socio-Economic (including Macro-Economic) Assessment of the Positive and Negative Impacts of Selected Water Resources Developments and Infrastructure in the Lower Mekong River Basin – A Report for the Council Study.	 Completed the following technical reports (Dec 2015): 1) Social Assessment Methodology Report 2) Economic Assessment Methodology Report
A Climate Change Assessment of Selected Water Resources Developments and Infrastructure in the Lower Mekong River Basin – A Report for the Council Study.	Delayed

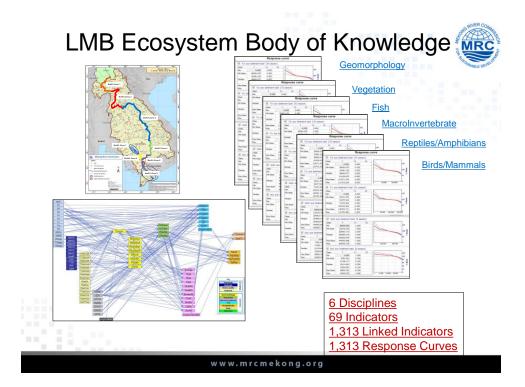
Working Papers

Report	Status	LOPP
Specifications of Selected Irrigation Developments and Infrastructure for Use in Hydrological Modelling	Draft Completed	
Specifications and map of Selected Non-irrigation Agriculture Development and General Trends in Major Land-Use Categories in the Lower Mekong River Basin for Use in Hydrological Modelling.	Draft Completed	
Specifications and Map of Selected Domestic and Industrial Water Use in the Lower Mekong River Basin for Use in Hydrological Modelling	Delayed	
Specifications and Map of Selected Flood Protection Structures and Floodplain Infrastructure for Use in Hydrological Modelling	Draft Completed	
Specifications and Map of Selected Hydropower Developments for Use in Hydrological Modelling	Draft Completed	
Specifications and Map of Selected Navigation Infrastructure Development	Draft Completed	

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Example Knowledge Gap: Ecosystem Impact Assessment





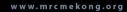
Option 1: Budget Required



Overall summary of budget available and required for Phase 2

Item	Budget Available	Budget Spent or Budget Required	
Secured External Funding	3,731,569		
Inception and Phase 1 Spending (2014 – 2015)		2,825,571	
Phase 1 Spending (January – March 2016)		713,476	
Phase 2 2016		1,063,182	
Phase 2 2017 and Project Closeout		1,018,845	
Total		5,621,074	
Funding Gap	1,88	1,889,505	
2016 Basket Funding Allocation	500	500,000	
Funding Gap After 2016 Basket Funding Allocation	1,38	1,389,505*	
*Of this amount UCD 270 CCO should be made quailable in	a 2016 to complete plann	ad a stimitian in 2016	

*Of this amount, USD 370,660 should be made available in 2016 to complete planned activities in 2016.



Option 2: Budget Required



Fable 19. Summary of 2016 budget required for Option: Delay Start of Phase 2 and Keep Transition Activities at the Minimum

Item	Amount USD	
Transition Phase	44,111	
Phase 2 in 2016 – Central Team	125,290*	
Phase 2 in 2016 – Support Team	289,156*	
Phase 2 in 2016 – Process	143,334	
Sub-Total	601,891	
Operation (3.5 percent)	21,066	
Contingency (5 percent)	30,095	
11 percent MAF for the Phase 1 Overflow Funding	21,177	
Total	674,229**	
*A fraction is allocated to complete the development of the BioRA DSS for the Delta with minimum		
support of the modelling team during the transition phase		
**Given the available budget of USD 692,522, this represents a surplus of USD 18,293.		

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Option 3: Budget Required



Table 20, Summary of 2016 budget required for Option: Reduce Scope in 2016

Item	Amount USD	
Transition Phase	84,346	
Phase 2 in 2016 – Central Team	149,330	
Phase 2 in 2016 – Support Team	201,460	
Phase 2 in 2016 – Process	184,960	
Sub-Total	620,096	
Operation (3.5 percent)	21,703	
Contingency (5 percent)	31,005	
11 percent MAF for the Phase 1 Overflow Funding	21,177	
Total	693,981*	
*Given the available budget of USD 692,522, this represents a funding gap of USD 1,459		