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### 1. BACKGROUND

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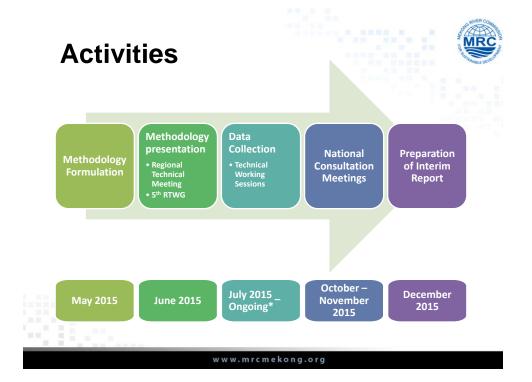
# **Objectives**



- a) Develop and agree on a common methodology for the scenario development
- b) Collect the necessary information to document the Agriculture and land use change Thematic area development for three time horizons
- c) Formulate scenarios for the thematic area for evaluating their impacts on the LMB



2



# Member Countries Participation in Formulation of Development Scenarios



- Progress of data collection activities highly depend on inputs from MCs
- Regional Technical Meeting
- 4 Technical Working Meetings were conducted with the National Consultants
- 4 National Consultation Meetings

### **Technical Working Meetings**



#### Discussions on:

- Technical guidance for the activities of scenario development
- (2) Data requirements and handling data gaps
- (3) Quality Control of the first data collected
- (4) Role of the National Consultants for Agriculture land use change and Mining on Impact Assessment
- (5) Preparation of the National Consultation meetings

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### NATIONAL CONSULTATION MEETINGS



- National Consultation Meetings
- ▶ <u>Thailand</u>:

Held in Bangkok on 26<sup>th</sup> October

Vietnam:

Held in Ho chi Minh on 13th November

Cambodia:

Held in Phnom Penh on 5<sup>th</sup> November

- Laos
  - Held in Vientiane province on 27<sup>th</sup> November

#### **KEY RESULTS**

- Approval of the Scenario formulation methodology
- Take note on the progress made so far by the project
- Take note on the activities performed and to be achieved by the national consultants



### 2. SUMMARY OF DATA COLLECTED

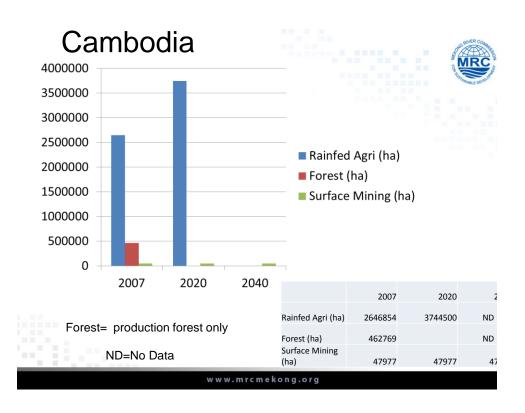
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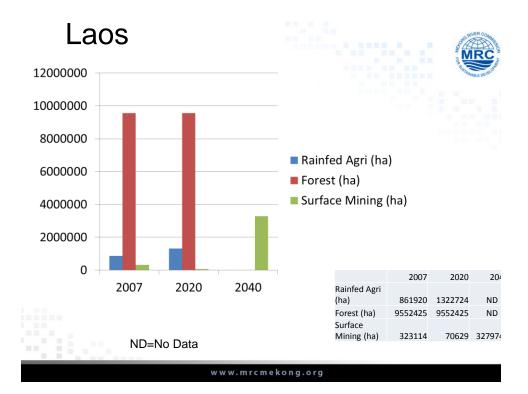
### Activity of MCs Comparison of data collection and reporting

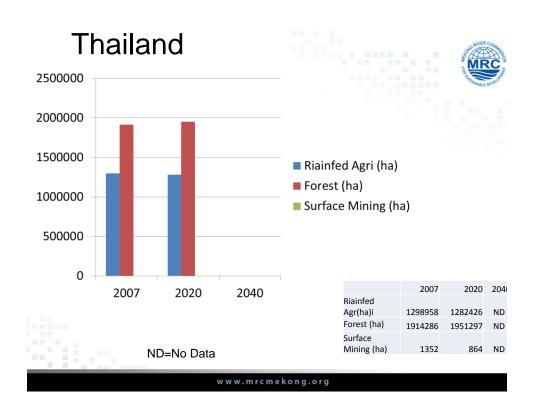


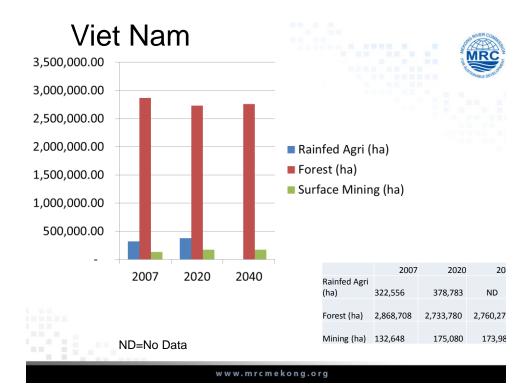
D.II	Completed:	1	The Head	WABLE DEV
Dataset	Cambodia	Laos	Thailand	Viet Nam
Dataset for scenario	No dataset provided yet	No dataset provided yet	No dataset provided yet	No dataset provided ye
formulation				
Report on scenario	Not prepared yet	Not prepared yet	Not prepared yet	Not prepared yet
formulation				
Dataset for rainfed	Not prepared yet, but	Not prepared yet, but	Not prepared yet, but	Not prepared yet, but
agriculture	data sheet for 3	data sheet for 3	data sheet for 3	data sheet for 3
	scenarios were prepared	scenarios were prepared	scenarios were prepared	scenarios were prepare
	and submitted- To be	and submitted- To be	and submitted- To be	and submitted- To be
	reviewed	reviewed	reviewed	reviewed
Dataset for forestry	Not prepared yet, but	Not prepared yet, but	Not prepared yet, but	Not prepared yet, but
	data sheet for 3	data sheet for 3	data sheet for 3	data sheet for 3
	scenarios were prepared	scenarios were prepared	scenarios were prepared	scenarios were prepare
	and submitted- To be	and submitted- To be	and submitted- To be	and submitted- To be
	reviewed	reviewed	reviewed	reviewed
Dataset for mining	Not prepared yet, but	Not prepared yet, but	Not prepared yet, but	Not prepared yet, but
	data sheet for 3	data sheet for 3	data sheet for 3	data sheet for 3
	scenarios were prepared	scenarios were prepared	scenarios were prepared	scenarios were prepare
100	and submitted- To be	and submitted- To be	and submitted- To be	and submitted- To be
	reviewed	reviewed	reviewed	reviewed

Development scenarios (Rainfed Agriculture)  Cambodia  Laos  Thailand  Viet National V	SUIVIIVIA	KA RA COOMII	KY			aIVER CO.
Definite Future Scenario DFS-2020 + + + + + + + + + + + + + + + + + +	•	narios (Rainfed	Cambodia	Laos	Thailand	Viet Name
Definite Future Scenario DFS-2020 + + + + + + + + + + + + + + + + + +						STAINABLE DEVELO
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Plan Development Scenario PDS-2040  Work in progress  # # # # # # # # # # # # # # # # # #	Definite Future So	cenario DFS-2020	+ +	+ +	+ + +	+++
Work in progress + + + + + + + + + + + + + + + + + +	lan Developmen	t Scenario PDS-2040	Work in progress		Work in progress	Not available
arly Development Scenario ED-2007	Development sce	narios (Forestry)				
Not available	arly Development Scenario ED-2007		+ +		+ + +	+ ++
Development scenarios (Mining)  iarly Development Scenario ED-2007	Definite Future Sc	cenario DFS-2020	Work in progress	+ ++	+ ++	+ ++
iarly Development Scenario ED-2007	lan Developmen	t Scenario PDS-2040	Not available	Not available	Not available	Work in progres
iarly Development Scenario ED-2007	Development sce	narios (Mining)				
Alan Development Scenario	· · · · · · · · · · · · · · · · · · ·	, ,,	+++	+++	+++	+++
+++ Finalized, reviewed and completed at the province level ++ To be reviewed + Draft document Not available Dataset not available for the study	Definite Future Sc	cenario DFS-2020	+++	+++	+++	+++
++ To be reviewed + Draft document Not available Dataset not available for the study	lan Developmen	t Scenario	+ +	+++	Not available	+ +
+ Draft document  Not available Dataset not available for the study			·			
Not available Dataset not available for the study						
bataset under constitution, not communicated yet					ted vet	
	11.0	Work in progress	Dataset under constitu	action, not communica	ited yet	









### Summary of data collected in MCs



			MANABLE DEVES	
	ED 2007	DSF 2020	PDS 2040	
Cambodia	Area (ha)	Area(ha)	Area(ha)	
Rainfed Agri.	82,059	404,500	ND	
Forest (production forest only)	462,769	ND	ND	
Surface Mining	47,977	47,977	47,977	
Laos				
Rainfed Agri	861,920	1,322,724	ND	
Forest	9,552,425	9,552,425	ND	
Surface Mining	323,114	70,629	3,279,749	
Thailand				
Rainfed Agri.	1,298,958	1,282,426	ND	
Forest	1,914,286	1,951,297	ND	
Surface Mining	1,352	864	ND	
Viet Nam				
Rainfed Agri.	322,556	358,783	ND	
Forest	2,868,708	2,733,780	2,760,271	
Surface Mining	132,648	175,080	173,982	
ND=No Data				



## 3. Data Gaps

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# Data Gaps

- Gap Analysis
- Gap Filling Strategy
- Example of Dataset



#### **GAP ANALYSIS - 1**



- Based on the overall progress on mid December, the data collected are not meeting the request.
- ▶ The datasets are not homogenous:
  - Spatially between countries and
  - Temporally by scenario
- The datasets are not detail enough
- The dataset collected to date is not sufficient to formulate the scenarios for the Agriculture and Land Use Change thematic area at the basin level

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### **GAP ANALYSIS - 2**



- A Gap analysis was conducted for the development scenario datasets
- The analysis focused only on three areas;
   rainfed agriculture, forestry and surface mining
- The analysis is difficult, some data may not be defined in the same way

### Towards a Gap filling strategy



- Need to have homogeneous dataset between countries covering the whole LMB
- Need to prepare dataset for three scenarios (2007, 2020 and 2040)
- Forest cover in Land cover and agriculture land 2010: will be used as reference
- Map of land use plans and forest plans (from MCs) will be used.

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# Forest cover area in 2010 (ha) for Gap Filling Strategy

	Cambodia	Lao PDR	Thailand	Vietnam
Broadleaved				
<b>Deciduous Forest</b>	4,258,386	12,067,262	3,166,161	209,460
Broadleaved				
<b>Evergreen Forest</b>	2,976,836	1,392,747	971,084	1,072,634
Forest Plantation	1331	5610	154,298	648
Bamboo Forest	81,529	284,408	11,721	234,679
Coniferous Forest	,2450	116,994	0	289,138
Mangrove Forest	529	0	0	121,592
Total	7,321,061	13,867,021	4,303,264	1,928,151

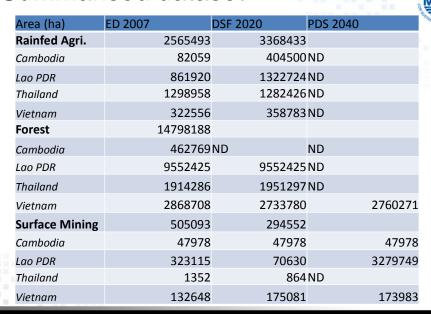
## Agriculture area in 2010 (ha)



	Cambodia	Lao PDR	Thailand	Vietnam
Annual Crop	1498993	284159	3277895	496728
Paddy Rice	3721308	1161090	8503892	1599872
Shifting cultivation	307331	740545	65927	44204
Industrial				
Plantation	291742	190461	1353579	893571
Total	5819374	2376255	13201293	3034375

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### Summarised dataset





### 4. SUMMARY

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### In Summary



- Data collected: not homogenous and not sufficient. Additional data collection is uncertain to improve significantly data set
- Data analysis: Gap filling strategy is implemented
- The methodology of the gap filling strategy should be proposed and validated
- Revised Data Set (with Gaps Filled):
   Proposed for Consideration

# The RTWG is requested to:



- Take note on the progress made and provide feedback
- Agree on the data filling strategy and the resulting revised dataset
- · Provide feedback and further guidance

