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For sustainable development

Formulation of Development Scenarios

Cumulative Scenarios and Thematic Sub-Scenarios

Internal Kick-off Meeting
Formulation of Development Scenarios
Office of the Secretariat in Vientiane
12 May 2015

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Working Together – Formulation of Development Scenarios

Scenario	Primary Responsibility	Review
2040 Planned Development and Sub-Scenarios	Thematic Teams (AIP, FMMP, EP, FMMP, NAP)	Review Team (selected individuals from discipline teams)
2007 Early Development Scenario	Hydrologic Assessment Team (IKMP) ?	
2020 Definite Future Scenario	??	
Climate Change (upper and lower bound)	Climate Change Discipline Team (CCAI)	
Only applied for the 2040 Planned Development Scenario		

Example Thematic Sub-Scenarios

- Irrigation (plausible deviations from the 2040 Planned Scenario)
 - Sub-scenario 1: Low implementation level
 - Sub-scenario 2: High implementation level
 - Sub-scenario 3: Improved irrigation practice (e.g., efficiency, fertilization/pesticide, etc.)

Note: Level of development for the other sectors are held at the 2040 Planned level

Some practical questions answered:

- 1) Can we sustain a higher level of irrigation development to take advantage of the increase dry season flow from hydropower development given other water uses?
- 2) What are the economic implications of failing to implement irrigation investments as planned?
- 3) How does the uncertainty in the implementation level compare with the uncertainty in climate change?

Example Thematic Sub-Scenarios

- Navigation (plausible deviations from the 2040 Planned Scenario)
 - Sub-scenario 1: Navigation investments in conjunction with the mainstream hydropower dams
 - Sub-scenario 2: Some early implementation of the Navigation master plan
 - Sub-scenario 3: Additional early implementation of the Navigation master plan

Note: Level of development for the other sectors are held at the 2040 Planned level

Some practical questions answered:

- 1) How significant are the positive and negative impacts of pursuing joint navigation/hydropower investments? Are positive impacts enhanced? Negative impacts reduced?
- 2) How feasible are some of the proposed major Navigation infrastructure in the master plan?

Example Thematic Sub-Scenarios

- Flood Protection and Floodplain Infrastructure (plausible deviations from the 2040 Planned Scenario)
 - Sub-scenario 1: Infrastructure investments based on cumulative knowledge of FMMP on where flood risk is high
 - Sub-scenario 2: Early implementation of the 2060 master plan

Note: Level of development for the other sectors are held at the 2040 Planned level

Some practical questions answered:

- 1) Were flood risks effectively reduced by the flood infrastructure investments as compared to 2040 Planned Scenario?
- 2) How significant are the reduction in flood risk due the flood infrastructure investments compared to climate change impacts?