Progress Update: Formulation of Development Scenarios
- Agriculture and Land Use Change

Technical Working Session on 9 July 2015
Discussed and agreed on:
(1) Overall context and guidance for formulation of sub-scenario development
(2) Approach, methodology and proposed for sub-scenarios development
(3) Data requirements and handling data gaps
(4) Detailed schedule
Overview of Scenarios

- Early Development Scenario (2007)
- Definite Future Scenario (2020)
- Planned Development Scenario (2040)

Agriculture and Land Use Change

Sub-sectors will be considered:

- Irrigated Agriculture (*)
- Rain-fed Agriculture
- Surface Mining
- Forestry
- Urban area development (**)  

(*): Irrigation Thematic area

(***): Domestic and industrial water use Thematic area
2040 PDS in Agriculture and Land Use Change

2040 Planned development scenarios

*including:*
- All specific plans, high feasibility (*ex. plan to 2020/2025*)
- All visions/development directions to 2040 or before

*2040 (ex. vision of agriculture development to 2030)*

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Sub-Scenarios

- The Thematic Sub-Scenarios represent **plausible thematic-specific deviations from the 2040 PDS**
- These thematic-specific deviations reflect **level of uncertainties in the full implementation** of the planned development level for the thematic area of interest as per the 2040 PDS

(Workplan of scenarios development)
Factors impact to implementation

From planning to reality.........

- Demography
- Technology

Changes in national policies and priority

Socio-Economic Condition

Global context

LMB in 2040

2040 PDS

- Sub 1: Low
- Sub 2: Medium
- Sub 3: High

How 2040 PDS would be implemented?

Scope of Sub-Scenarios

Deviation of Implementation

Continuous trend to develop

All visions/directions

All specific plans

2040

Sub 1

Sub 2

Sub 3

2040 PDS
3 sub-scenarios

- Sub-scenarios 1: Low level of PDS implementation achievement: only all specific plans are implemented

- Sub-scenarios 2: Medium development: all specific plans + all vision/development directions are implemented

- Sub-scenarios 3: High development: all specific plans + all visions/development directions + continued trend to develop are implemented.

Methods to formulate sub-scenarios

- Apply concept of PDS and sub-scenarios
- Participatory approach with an approval from MCs for formulated scenarios
- Data collection: available secondary data
- Using mathematical model, data assumption and spatial distribution approaches with highest land suitability and simplification for addressing data gaps.
Required dataset for scenarios development

**What information do we need?**

1. *Early development 2007*
2. *Definite development 2020*
3. *Current situation*
4. *Plans (including specific plans and other such as visions and development directions)*

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**Dataset for current situation**

- Current land use (map and report)
- Demography
- Socio-economic condition and national development policies
Dataset for current situation

• Data on area, production, technology, water use and land suitability in each sector:
  ▪ Rain-fed agriculture
  ▪ Surface mining
  ▪ Forestry

Dataset for plans

• Land use plan (map and report): area and spatial distribution of each sector development

Example: Land use plan to 2020 in Mekong Delta

• Sector development plans on rain-fed agriculture, forestry, surface mining: area, spatial allocation, production, technology, water use, investment...

Example: Agriculture development plan to 2020
Dataset for plans (cont.)

• Vision/ development directions on land use: 
  changes in land allocation
• Vision/ development directions on sector 
  development on rain-fed agriculture, forestry and 
  surface mining: changes in area, production, 
  technology, water use efficiency etc.

Guidelines of data collection

1. Land use specifications
2. Mining development and their environmental 
   impacts

- Prepared data templates with Excel file.
### Schedule (1)

<table>
<thead>
<tr>
<th>No.</th>
<th>Activity</th>
<th>Lead</th>
<th>Due Date</th>
<th>Note</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Develop work plan</td>
<td>AIP Team. Consult with CS Coordinator</td>
<td>12/06/2015</td>
<td></td>
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<tr>
<td>2</td>
<td>Technical working session on scenarios development for Agriculture and Land use Change thematic theme</td>
<td>Regional AIP Team</td>
<td>09/07/2015</td>
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<tr>
<td>3</td>
<td>3.1 Revise data template, guideline in detail for data collection, addressing comments at meeting 3.2 Send data template, guideline to consultants to get final comments 3.2 Send available data at MRCS to consultants</td>
<td>Regional AIP Team</td>
<td>14/07/2015</td>
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<td>4</td>
<td>Finalize data template and guideline, send to consultants</td>
<td>Regional AIP Team</td>
<td>18/07/2015</td>
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<tr>
<td>5</td>
<td>Conduct data collection</td>
<td>National consultants</td>
<td>18-28/07/2015</td>
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<td>6</td>
<td>Conduct data analysis, identify data gap and develop sub-scenarios for each MC</td>
<td>National consultants and AIP technical support</td>
<td>28/07-15/08/2015</td>
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<tr>
<td>7</td>
<td>Progress report to 5th RTWG</td>
<td>AIP Team</td>
<td>Early Aug 2015</td>
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### Schedule (2)

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<tr>
<td>8</td>
<td>National consultation meeting for seeking comments on sub-scenarios</td>
<td>NMCs</td>
<td>06-30/08/2015</td>
<td>Aug-Sep</td>
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<tr>
<td>9</td>
<td>Conduct final data collection</td>
<td>National consultants</td>
<td>01-20/09/2015</td>
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<td>10</td>
<td>Improve sub-scenarios and submit scenarios development documents</td>
<td>National consultants</td>
<td>01-23/09/2015</td>
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<td>11</td>
<td>Approval of sub-scenarios</td>
<td>AIP Team and NMCs</td>
<td>23-30/09/2015</td>
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<tr>
<td>12</td>
<td>Submit scenarios development documents to CS Coordinator</td>
<td>AIP Team</td>
<td>30/09-01/10/2015</td>
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<td>13</td>
<td>Submit 6th RTWG Briefing Materials</td>
<td>CS Coordinator</td>
<td>02/10/2015</td>
<td>Include Scenarios/Sub-scenarios Data/Map Specification Document</td>
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Thank you