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Example: MCA Fieldwork and Analysis

Asia LEDS Forum, November 12, 2014

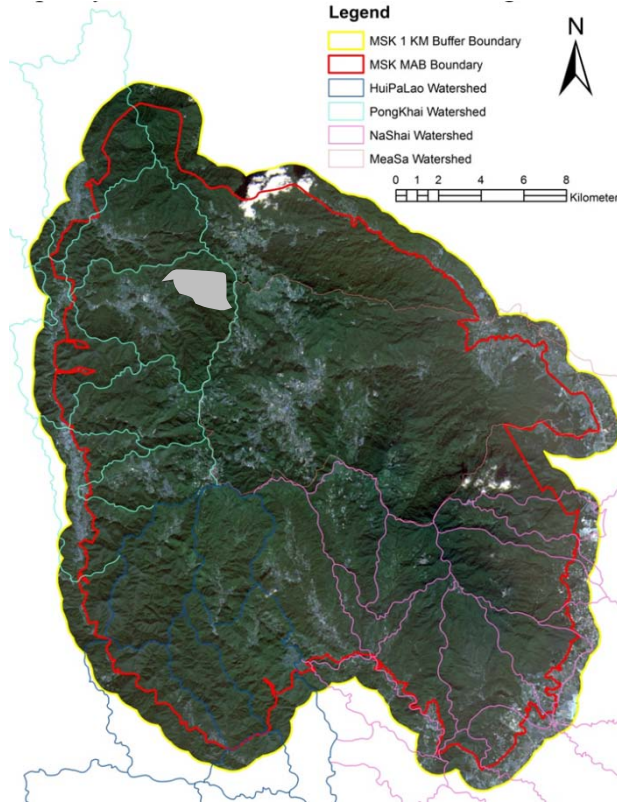


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MCA Fieldwork – Step 1

Establish Decision Context – Goal was to use MCA to prioritize management strategies for Mae-Sa Kog Ma Man and Biosphere (MSKM MAB) Reserve





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MCA Fieldwork – Step 1

Establish Decision Context - MSKM MAB Reserve

A biosphere reserve is:

- An area proposed by its residents, ratified by a national committee
- Designated by UNESCO's Man and Biosphere (MAB) program

One of the primary objectives of MAB is:

- To achieve a sustainable balance between the goals of conserving **biological diversity**, promoting **economic development**, and maintaining associated **cultural values**



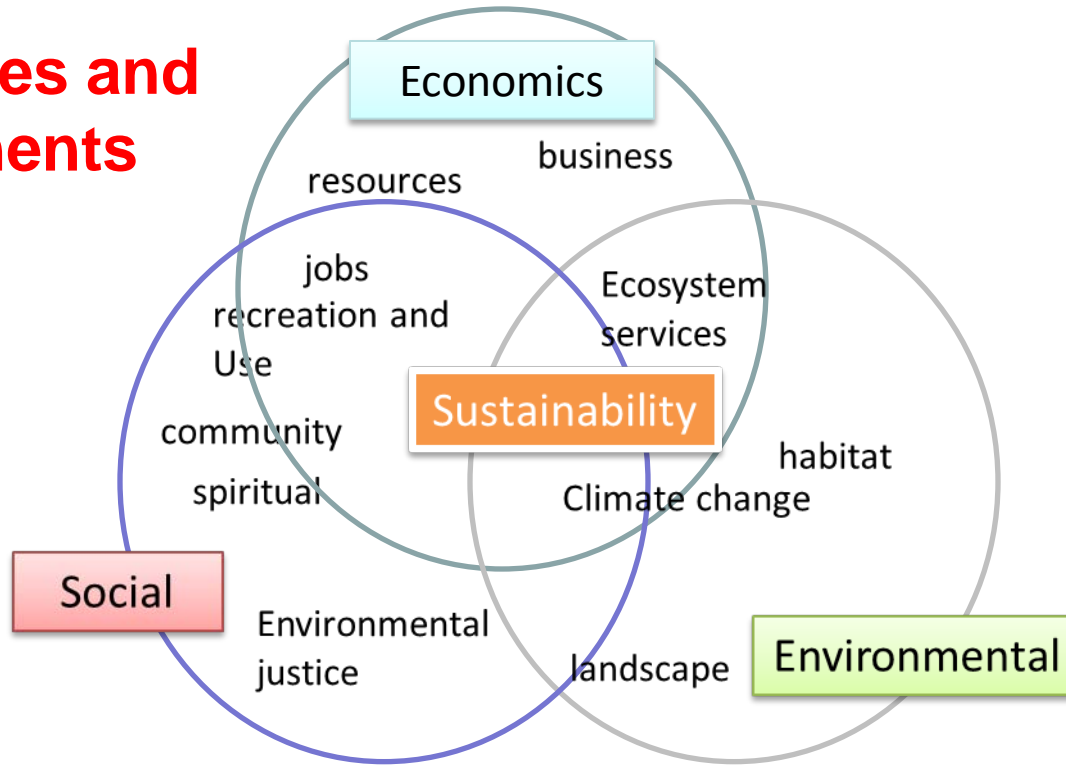


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MCA Fieldwork – Step 2

Identify Objectives and Components





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MCA Fieldwork – Step 2

Identify Options - Management Strategies for MSKM MAB

- **Strategy 1 – Preserve and protect Mae-Sa Kog Ma**
- **Strategy 2 – Strengthen community and stakeholders to increase collaboration on conservation and sustainable resource use**
- **Strategy 3 – Raise awareness of conservation and sustainable development within the community and the wider public**
- **Strategy 4 – Develop and increase an integrated management infrastructure for MSKM-MAB**
- **Strategy 5 – Promote and support research related to conservation and sustainable development**



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MCA Fieldwork – Step 3

Develop Measures and Outcomes for Management Strategies

- Outcomes of the management strategies were developed through **consultations** with resource managers, specialists in conservation and land management, and government employees
- Management strategies were evaluated at the level of **sub-strategies** designed to achieve the goals of each strategy
- Outcomes were determined for each sub-strategy in terms of how the **sub-strategy** would **contribute** to the **components** of the objectives of environment, economy, and society



Develop Measures and Outcomes for Management Sub-Strategies

| Sub-Strategies for Strategy 1 | Potential Outcome (s) | | | | | | | | | | | |
|--|-------------------------|-----------------|---------|--------------|--------------------|------------|----------|------------------|-----------|-----------|--------------------------|-------------------------|
| | Environmental Objective | | | | Economic Objective | | | Social Objective | | | | |
| | Land Size | Eco Services | Climate | Biodiversity | Resource Use | Employment | Business | Recreation | Education | Spiritual | Environmental Justice | Community Engagement |
| 1.1 Increase efficiency in forest and ecosystem protection | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | ✓ | ✓ | ✓ |
| 1.2 Rehabilitation of degraded forest ecosystem and watershed areas | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | | ✓ | | ✓ |
| 1.3 Capacity building for rangers/forest protection unit and community outreach officers | ✓ | | | ✓ | | ✓ | | ✓ | | | | ✓ |
| 1.4 Increased efficiency in monitoring and forest fire management with local people and networks | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | | ✓ | ✓ |



Develop Measures and Outcomes for Management Sub-Strategies

| Sub-Strategies for Strategy 1 | Potential Outcome (s) | | | | | | | | | | |
|--|-------------------------|-----------------|---------|--------------|--------------------|------------|----------|------------------|-----------|----------------------|-------------------------|
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| 1.1 Increase efficiency in forest and ecosystem protection | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | ✓ | ✓ |
| 1.2 Rehabilitation of degraded forest ecosystem and watershed areas | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | | ✓ | ✓ |
| 1.3 Capacity building for rangers/forest protection unit and community outreach officers | ✓ | | | ✓ | | ✓ | | ✓ | | | ✓ |
| 1.4 Increased efficiency in monitoring and forest fire management with local people and networks | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | | ✓ |



Develop Measures and Outcomes for Management Sub-Strategies

| Sub-Strategies for Strategy 1 | Environmental Objective Biodiversity | |
|--|---|---|
| | Contributes Positively | Potential Outcome (s) |
| 1.1 Increase efficiency in forest and ecosystem protection | Yes | Reinforce buffer and core zone boundaries and create corridors through participatory zoning that increases local awareness and support, thus reducing encroachment and protecting natural resources |
| 1.2 Rehabilitation of degraded forest ecosystem and watershed areas | Yes | Increase available habitat for plant and animal species by rehabilitating 80% of degraded areas. |
| 1.3 Capacity building for rangers/forest protection unit and community outreach officers | Possibly | Reduce encroachment and enhance biodiversity protection by building capacity among foresters and community outreach officers. |
| 1.4 Increased efficiency in monitoring and forest fire management with local people and networks | Possibly | Reduce fires and loss of habitat, and protect individual species by building capacity to monitor and prevent unnatural forest fires. |



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ASIA MCA Fieldwork – Steps 4&5

Score and Weight – Collect data from stakeholder groups





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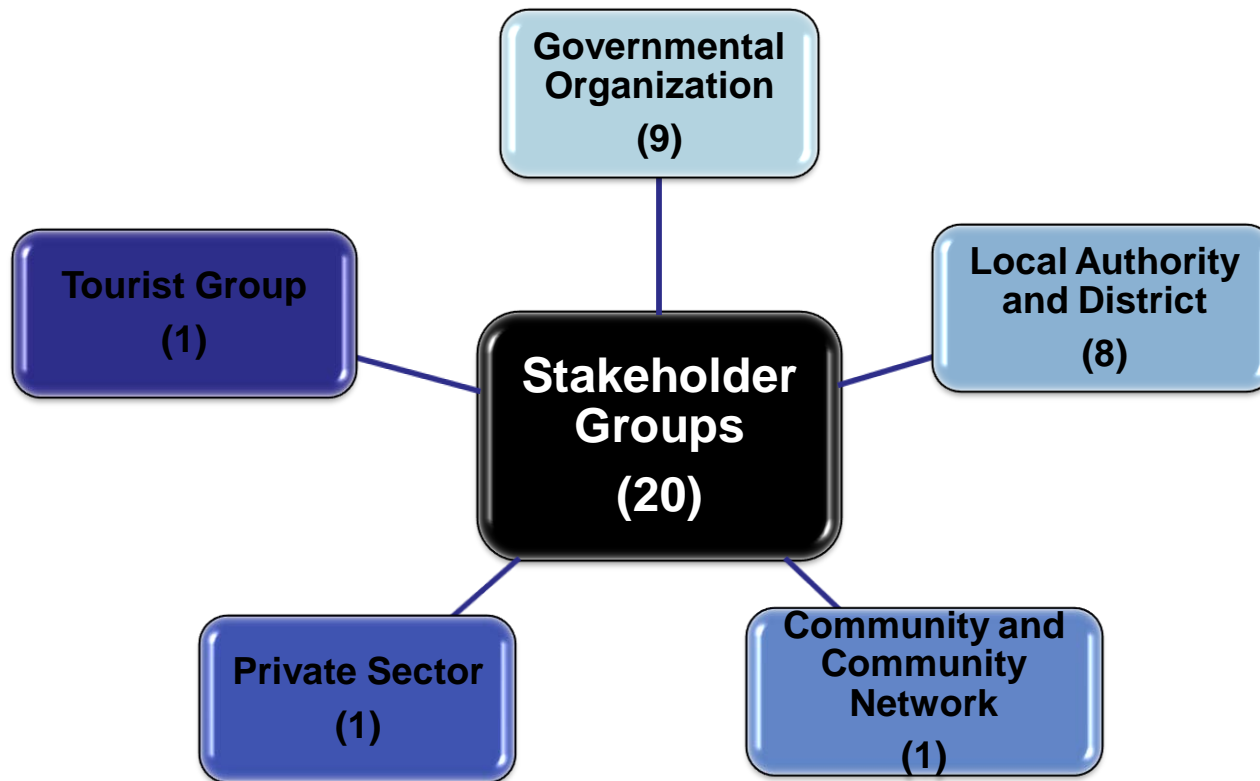
MCA Fieldwork – Steps 4&5

Score and Weight – Collect data from stakeholder groups



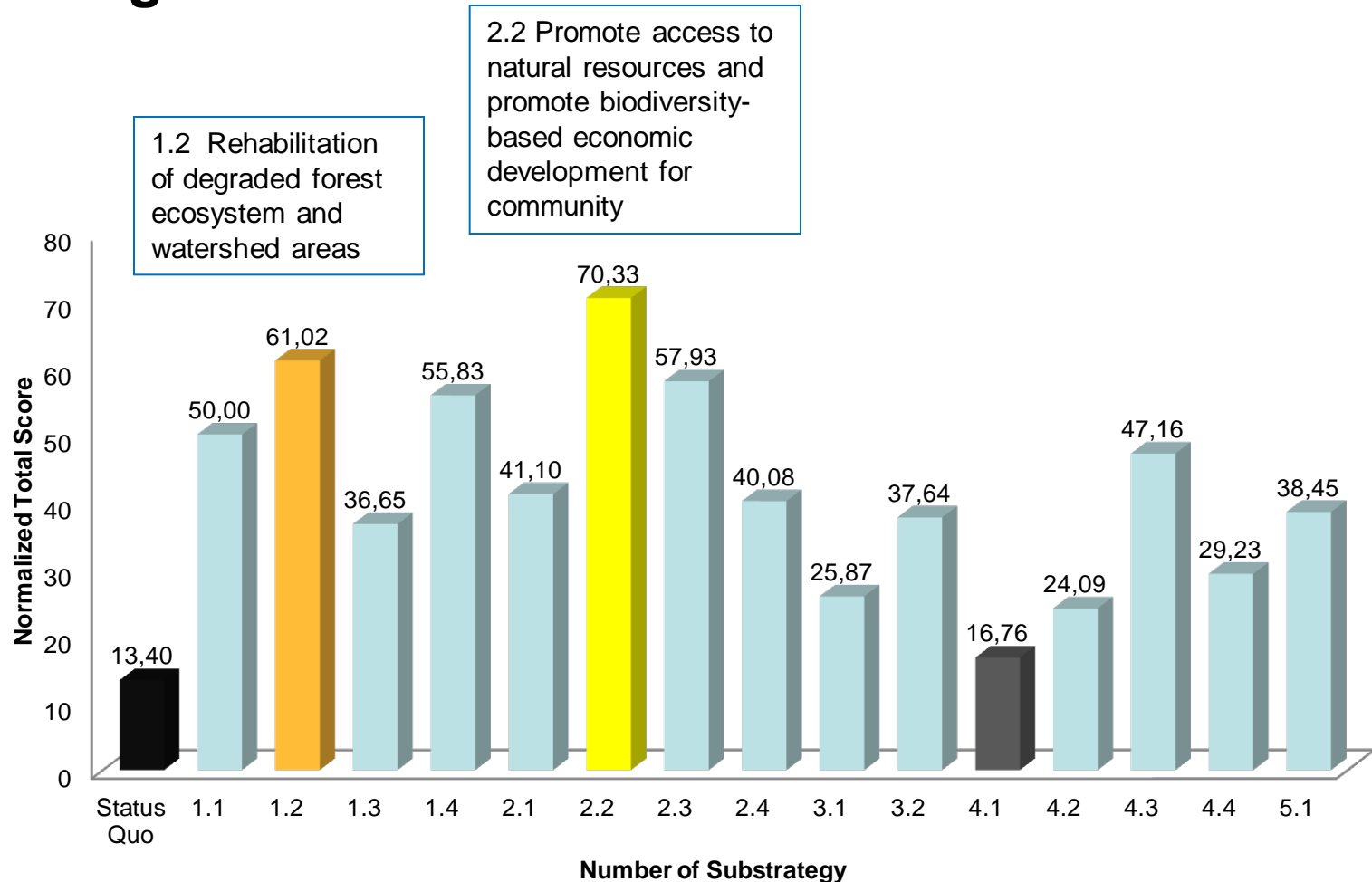


Score and Weight – Collect data from stakeholder groups





Calculate Total Scores for Management Sub-Strategies and





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MCA Fieldwork – Step 7

Analyze the Results – How the results are being used

- Results provided information to government agencies and park management officials on which management strategies should be prioritized
- Results helped stakeholders to learn about their own preferences and willingness to make tradeoffs
- Results helped stakeholder groups learn about each other and the tradeoffs different groups would make





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Any



Questions?

