

How is your MPA Doing?

Results from the testing of natural and social indicators of management effectiveness at 19 MPAs around the world

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Why Measure Management Effectiveness?

- Adaptive Management
- Project Planning and Priority Setting
- Accountability

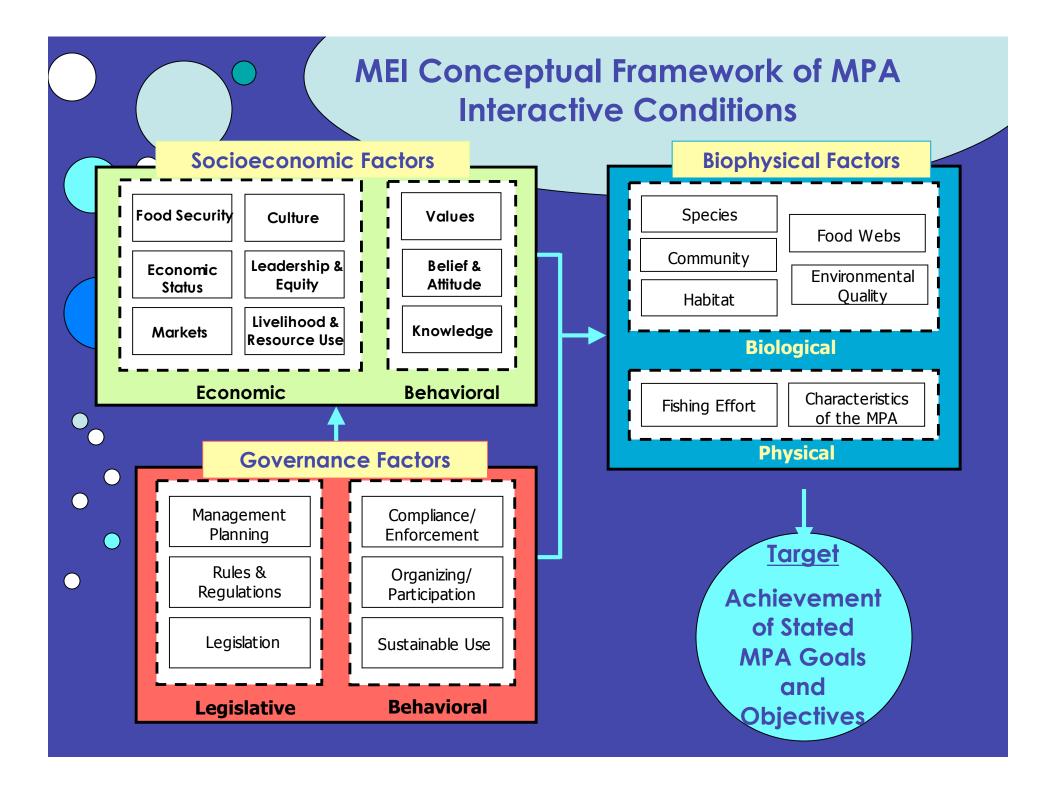
Very few MPAs have a consistent record of activities and enough data to perform evaluations

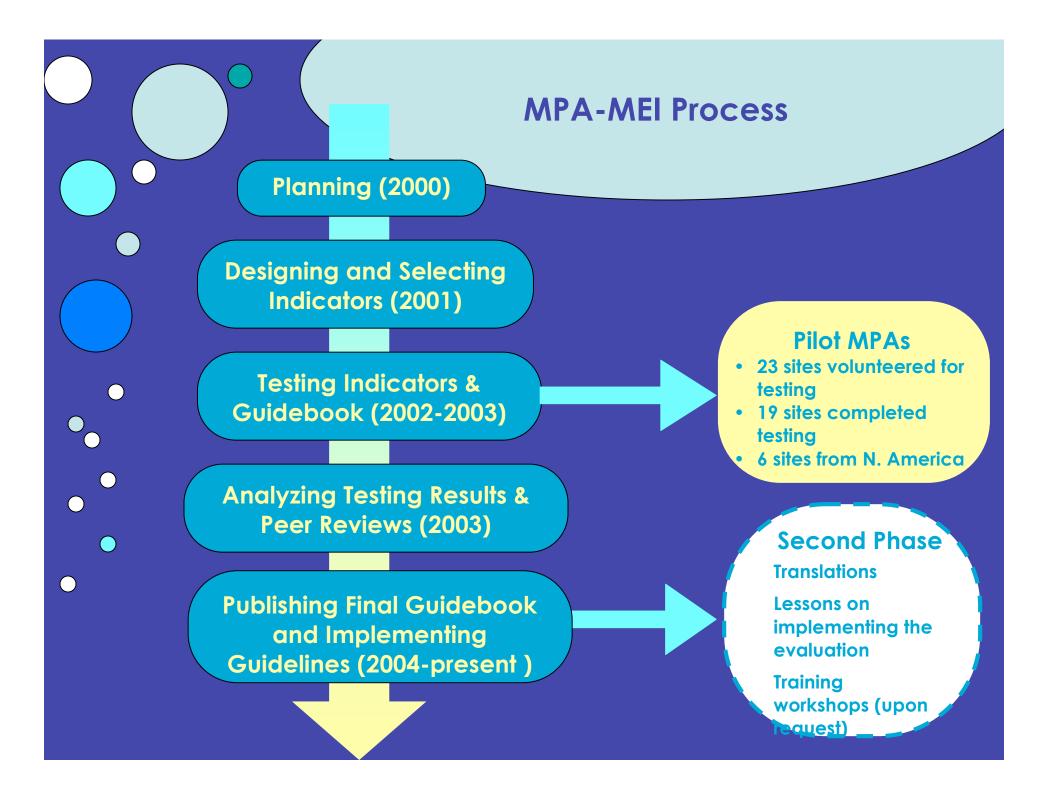
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Very few MPAs are able to document whether Goals and Objectives are being achieved (some of them are difficult to measure)

MPA-MEI Objectives

- Develop MPA-specific indicators and a guidebook for MPA managers
- Field-test and refine indicators and guidebook based on pilot projects
- Increase awareness and use of monitoring and evaluation in MPAs







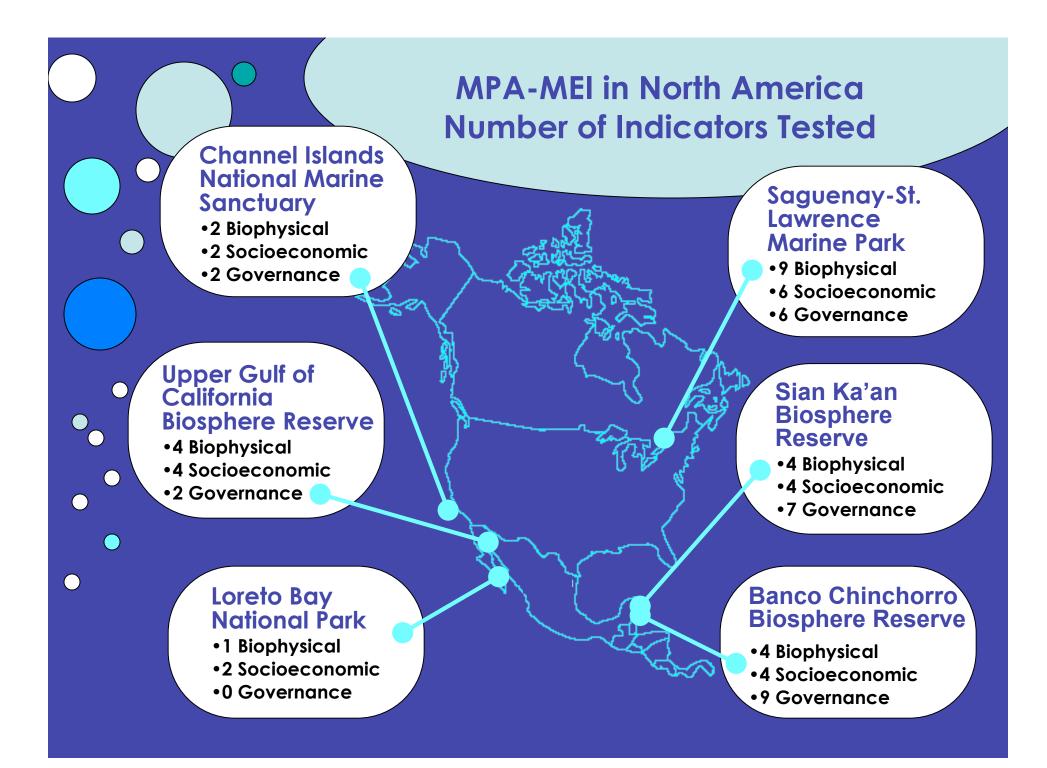
- 1. Achang Reef Flat Marine Preserve, Guam
- 2. Banc d'Arguin National Park, Mauritania
- 3. Banco Chinchorro Biosphere Reserve, Mexico
- 4. Bird Island Marine Sanctuary, Commonwealth of Northern Mariana Islands
- 5. Bunaken National Park, Indonesia

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- 6. Channel Islands National Marine Sanctuary, USA
- 7. Far Eastern Federal Marine Reserve, Russian Federation
- 8. Galapagos Islands Marine Reserve, Ecuador
- 9. Hol Chan Marine Reserve, Belize
- 10. Lenger Island MPA, Federated States of Micronesia

- 11. Loreto Bay National Park, Mexico
- 12. Mafia Island Marine Park, Tanzania
- 13. Miramare Marine Nature Reserve, Italy
- 14. Piti Bomb Holes Marine Preserve, Guam
- 15. Saguenay-St. Lawrence Marine Park, Canada
- 16. Sian Ka'an Biosphere Reserve, Mexico
- 17. Tubbataha Reef National Marine Park and World Heritage Site, the Philippines
- 18. Tumon Bay Marine Preserve, Guam
- 19. Upper Gulf of California and Colorado River Delta Biosphere Reserve, Mexico



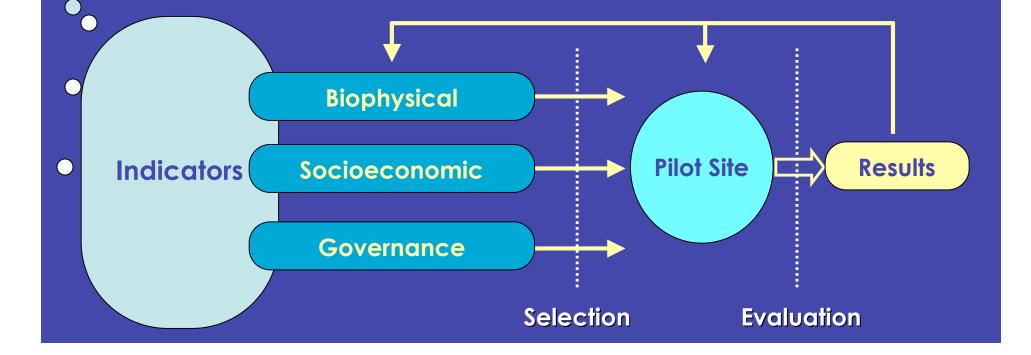
General Characteristics of the Pilot Sites



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Criteria for Selecting Indicators and Feedback from Pilot Sites

- Indicator selection is based on the goals and objectives of each individual site plus its management plan
- The selected indicators must be the most appropriate for measuring the management effectiveness of each particular site





Identified Constraints for Performing Evaluation

- Lack of professional and technical capacity, especially for Socioeconomic and Governance indicators
- Lack of time, resources and evaluation experience
- Difficulty in accessing some areas of large MPAs

- Difficulty in obtaining local population's participation
- Lack of clear definition and understanding of the MPA goals and objectives

General Results from the Field Testing



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- All indicators found to be useful for adaptive management purposes, especially governance indicators
- Need for increased understanding and focus on socioeconomic and governance aspects of MPAs
- Need for guidance on MPA design and management planning
- Need for MPAs to prioritize adaptive management within overall management process
- Need for guidelines on use of results
- Need to develop analysis methods that account for timing issues of different indicators



- Clarify and/or re-define MPA goals & objectives
- Expand monitoring beyond biophysical characteristics
- Involve community in MPA management
- Hire or train specialized staff for the oversight of monitoring and research activities
- Keep good records of technical staff activities, especially for governance indicators
- Develop significant sampling & sampling training (especially for biophysical indicators)
- Use evaluation results to modify working plans (adaptive management)
 - Strengthen institutional cooperation

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Parts of the Guidebook

- Outline the process for conducting an MPA evaluation
- Describe the indicators that would be measured in an evaluation

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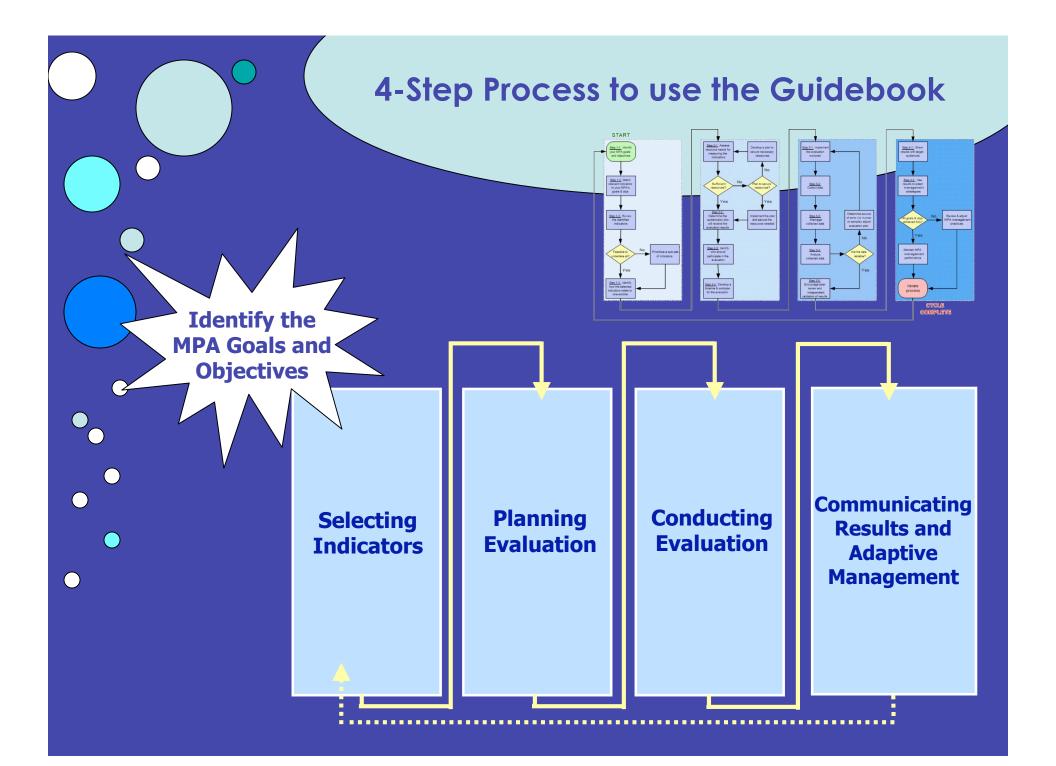
Marine Protected Area Management Effectiveness

John E. Parks

IUCN

Structure of the Guidebook

Information on each Indicator **10 Biophysical** Name of indicator Indicators Goals/objectives related to indicator 5 Goals: 26 • How difficult is it to measure? **Objectives** What is...? (definition) • Why measure it? **16 Socioeconomic** (purpose/rationale) Indicators • What is required to measure it? (resources) 6 Goals: 21 How are data collected? (method) **Objectives** How are results interpreted/shared? (analysis & communications) 16 Governance Outputs **Indicators** Strengths and limitations • Example (from a pilot site) 5 Goals: 21 **References/useful information Objectives**



Major Outputs of the MEI Process NOAA International Coral **Conservation Grant Small Grants Program** National Fish and Wildlife Foundation (NFWF) The U.S. National MPA Center will train MPA managers in **Capacity Building** the U.S. using the MEI Guidebook \bigcirc • WWF will implement the Communication plan 2004- \bigcirc 2005 Outreach Guidebook is being translated into Spanish and French to reach a wider audience



International outreach (partnerships with strategic regions, programs and/or sites)

Implement evaluation programs into working plans of selected MPAs

Document the "process experience" of implementing evaluation in 3 sites (Galapagos, Loreto and Miramare)

IMPAC 2005

