

# Coastal and marine ecosystem

NWP, 2013 EbA workshop

- Cost / Benefit
  - Few examples currently available
- What are Existing Management Approaches
  - When is EbA appropriate
- Best Practice Document
  - How to prepare, minimal Information Needs, etc.
- Improve Understanding of Ecosystem Services (ES) and Beneficiaries
  - Mapping ES
  - Understand risk/vulnerability to ES
- Know Co-Benefits to encourage buy-in from Decision-Makers
- Target Policy Makers' Interests
  - E.g. Understand Development Objective

- Emphasize difference between EbA and alternatives
- Recognize Difference of Stakeholders and Different Information Needs
  - Map local winners and losers
  - Demonstration
    - Change perception of “2<sup>nd</sup> best” option
- Criteria for Implementation (after a VA)
  - Resources, capacity, political buy-in

## Q2. Approaches to measuring effectiveness

- Economic
  - Economics of Climate Adaptation (McKinsey)
  - Other cost-effectiveness tools
  - Valuing ES
  - Tradeoff Analysis (marine spatial planning)
- Social
  - Participatory monitoring techniques
  - PMERL (CARE tool with CBA focus)
- Environmental
  - World Risk Index
    - Data needs at sub-national level
    - EbA appropriate
  - METT & other tools for PA effectiveness
- Political
  - Community Participation; Gender specific
  - International Agreements (CTI, Micronesia Challenge, Caribbean Challenge, PRCM)
    - Gives Politicians a “Podium”; Fundraising Opportunity
- Best Practices
  - Use of Proxy Sites
  - Theories of Change

# Q3. Indicator Selection

## Categories of Indicators and Selection Criteria

- Qualitative vs Quantitative
- Context Specific
- Levels: Process, Output, Outcome (Impact)
- Project Goals vs Co-Benefits
- Monitoring
  - Includes Loss and Damages to inform Limits to Adaptation
  - Useful for Adaptive Management
- Available Budget (cost of monitoring)
- SMART

# Q4. Future Work

- Review of Existing Vuln. Assessments
  - Synthesis of social, ecological, economic components
  - Monitoring of ecosystem interactions
- System of Trainings (We need more T-shape scientists)
- Better communications materials to reach different communities (Engineers, Economists, etc)
- Understanding climate impacts on fisheries for EbA design
- Quantification of Ecosystem Services (mangroves, salt marshes, coral reefs – next: seagrasses)
  - Risk Reduction
  - ES Value
  - Cost-Effectiveness / CBA
- Common Themes
  - Parametricization of ES: thresholds, boundary conditions