17. Steps 5.1 & 5.2
Monitor, evaluate & adapt

Essential EAFM
Date • Place
Session objectives

After this session you will be able to:

• Monitor how well management actions are meeting goals and objectives
• Understand what has to be monitored, why, when, how and by whom
• Evaluate monitoring information and report on performance
• Review and adapt the plan
5.1 Monitor and evaluate performance of management actions
5.2 Adapt the plan
17. STEP 5: MONITOR, EVALUATE & ADAPT
Step 5 is a critical step in the management cycle

- Regular monitoring and reviews of management actions are required to assess progress towards achieving objectives.
- Monitoring and evaluation (M&E) provides the critical information for adaptive management.

**NOTE: DO NOT GET CONFUSED WITH “MONITORING” IN MCS (which means monitoring for compliance and enforcement, not the broader monitoring needed here)**
The sub-steps

5.1 M&E

• Monitor: Collect data (focus on indicators)
• Evaluate: Collate results of monitoring and evaluate management performance against benchmarks, and report

5.2 Review and adapt the EAFM plan

• Review: Regular reviews of the plan
• Adapt: Adapt the plan as required
Monitor

• Collect data for each indicator
  Avoid unfocussed data collection but do not ignore relevant information (e.g. fishermen observations, environmental change)

• Monitoring continues throughout the life of the plan

• Frequency of monitoring depends on the indicator
  – Some indicators will require monthly, some seasonal and some annual sampling
Evaluate management performance

Assess each indicator against its benchmark to measure the efficacy of each management action. Example:

- **Objective:** 50% increase mangrove habitat by 2020
- **Indicator:** Hectare of mangroves
- **Benchmark (baseline):** 10,000 ha
- **Benchmark (target):** 20,000 ha
- **Indicator after management action:** 5,000 ha
- **Performance:** Mangroves have reduced by 5000 ha

**Ineffective action!!!**
Evaluate performance contd.

• Evaluate all indicators

• Collate, analyze and describe the overall performance of management actions

Assess other sources of information that confirm or refute the indicator evaluation
e.g. cross-validate with stakeholder observations
Communicating and reporting

- The evaluation needs to be communicated
- Different users will require different reporting styles
  - Brief and hard-hitting for policy makers
  - Simple and easy to understand for community stakeholders
Traffic light system
An example of a simple reporting system

Red
performance is well below benchmark

Orange
performance is close to benchmark

Green
performance is at or above benchmark
Instrument panel

Another example of a simple reporting system

Bay of Bengal
Ecosystem health
5.2 Review and adapt

• The evaluation report provides the basis for the participatory review of the plan

• Reviews
  - Short-term (annual evaluation)
  - Long-term (3-5 years evaluation)
Short-term reviews

• If the plan is working, celebrate!!
• If not, establish why
• Adapt plan:
  - Management actions
  - Compliance
  - Governance arrangements
Longer-term reviews

Carry out a comprehensive review every 3-5 years. May be necessary to:

• Reconsider goals, objectives, indicators, etc.
• May need to rethink the whole plan and management system
• Often carried out by independent auditor
17. STEP 5: MONITOR, EVALUATE & ADAPT

**Monitoring**

1 YEAR

Short-term reviews
- Evaluate and adapt
- Management actions
- Compliance arrangements
- Governance arrangements

3-5 YEAR

Long-term reviews
- Evaluate and adapt
- Reconsider goals, issues and linked objectives, actions and indicators
Key messages

In Step 5:

- Monitor, evaluate and adapt completes the EAFM cycle ready to enter the next cycle

- Yearly review: are you meeting objectives? (if not, adapt the management actions and compliance arrangements)

- 5-yearly review: are you meeting objectives and goals? (if not, may be necessary to also revisit issues and goals as well)
EAFM QUIZ!
Home work: preparing presentations for day 5

- EAFM plans
- No PowerPoints
- Use flipcharts, cards.....be creative!
- Trainers need to see learning and applying EAFM concepts and tools
- Everyone participates
- Supportive environment – constructive feedback