13. Steps 3.1 & 3.2

Develop objectives, indicators and benchmarks

Essential EAFM

Date • Place
13. STEP 3. DEVELOP OBJECTIVES, INDICATORS & BENCHMARKS

3.1 Management objectives
3.2 Indicators and benchmarks
Session objectives

After this session you will be able to:

- Develop management objectives
- Develop indicators and benchmarks related to the objectives
Building the EAFM plan

13. STEP 3. DEVELOP OBJECTIVES, INDICATORS & BENCHMARKS
3.1 Developing objectives

Priority threat/issue (core problem)

Management objective

Ask:
For this issue: what do you want to achieve?
Objectives

Management objective

Thumbs up: management objective = To reduce the % of juvenile fish caught

Thumbs down: management objective = Improve the health of the ecosystem
3.2 What is an indicator?

- A measure of the current status at one point in time (e.g. temperature, number of fish, area of mangroves)

An indicator must be linked to the objective.
Fishery resources example

Goal: Maximum sustainable yield for fishery

Objective: Reduce the % of juvenile fish caught in the fishery

Indicator: % of juvenile fish caught by the boat or at landing sites
Ecological example

Goal: Protect vulnerable and endangered species

Objective: Minimize the mortality of turtles caught in the fishery

Indicator: Number of dead turtles (based on sample)
Goal: Maximum social benefits for the fishery

Objective: Increase profits for fishers

Indicator: Number employed in the harvest/post-harvest
Governance example

**Goal**: Improve compliance and enforcement

**Objective**: Strengthen cooperation amongst different compliance and enforcement agencies

**Indicator**: Coordination group formed, multi-agency compliance plans formulated & groups meeting regularly with agreed minutes
What is a benchmark?

- A target, limit, or baseline that provides a reference for comparing the indicator
  
  **Target** = where you want to be
  
  **Limit** = where you do not want to be
  
  **Baseline** = where you have come from

(e.g. Target: Increase the area of mangroves by 20% by 2020)
  
  **Limit**: Not to decrease area below 50%
  
  **Baseline**: Area of mangrove back in 1980

👋 When the indicator is compared to benchmark it tells you how well you are meeting the objective
Simple example

- Objective:
  - Reduce the fever of a sick patient

- Indicator:
  - The patient’s body temperature

- Benchmark (in this example, a target):
  - 37 degrees Celsius in 2 days
Mangrove area example

Benchmark = target and limit

Indicator line

Target line

Limit line

13. STEP 3. DEVELOP OBJECTIVES, INDICATORS & BENCHMARKS
Data & information for the indicators and benchmarks

- Data and information are needed for the indicators and benchmarks
- Use existing data, where available
- Collect new data, if necessary
- Use participatory approaches, if possible

Note: Data & information is a cross-cutting theme. It was needed for scoping to set the background and now for indicators and benchmarks
Indicators and benchmarks must be “SMART”...

- **Specific** (in terms of quantity, quality and time)
- **Measurable** (easy to measure with acceptable cost)
- **Available** (from existing sources or with reasonable extra effort)
- **Relevant** (to objectives and sensitive to change)
- **Timely** (Information is up-to-date)
Key data and information questions

- What: what needs to be measured?
- Who: who will measure them?
- Where: where will the data come from?
Involving stakeholders (Participatory M&E)

• Stakeholders are involved in:
  - developing the indicators and benchmarks
  - collecting data
  - deciding on the methods to use

• Indicators developed locally have more relevance
EAFM Plan outline

Now finished 1st part of Step 3.
We can use the results in the EAFM plan

EAFM Management Plan for FMU XX

1. Vision (Step 1)
2. Background (Step 1)
3. Major threats and issues (Step 2)
4. Goals (Step 2)
5. Objectives, indicators and benchmarks (Step 3)
Key messages

In Step 3.1-3.2:

- Management objectives are developed. This involves agreeing on what is to be achieved for each high-priority issue

- Objectives are paired with indicators and benchmarks to be able to assess whether the objective is being achieved
13. STEP 3. DEVELOP OBJECTIVES, INDICATORS & BENCHMARKS
1. Choose 4 issues that were categorized as hi/hi (2 ecological (1 fish & 1 environmental)); (1 human & 1 governance).

2. Develop a management objective for each issue (these probably relate more to the key problems)

3. Select indicator(s) and benchmark(s) for each management objective

**Outputs**

- **Issue:**
  - **Objective:**
  - **Indicator:**
  - **Benchmark:**