

# 17. Steps 5.1 & 5.2

## Monitor, evaluate & adapt

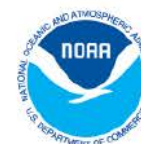
Essential EAFM

Date • Place

Version 1



**CORAL TRIANGLE INITIATIVE**  
ON CORAL REEFS, FISHERIES AND FOOD SECURITY



**Norad**



**USAID**  
FROM THE AMERICAN PEOPLE

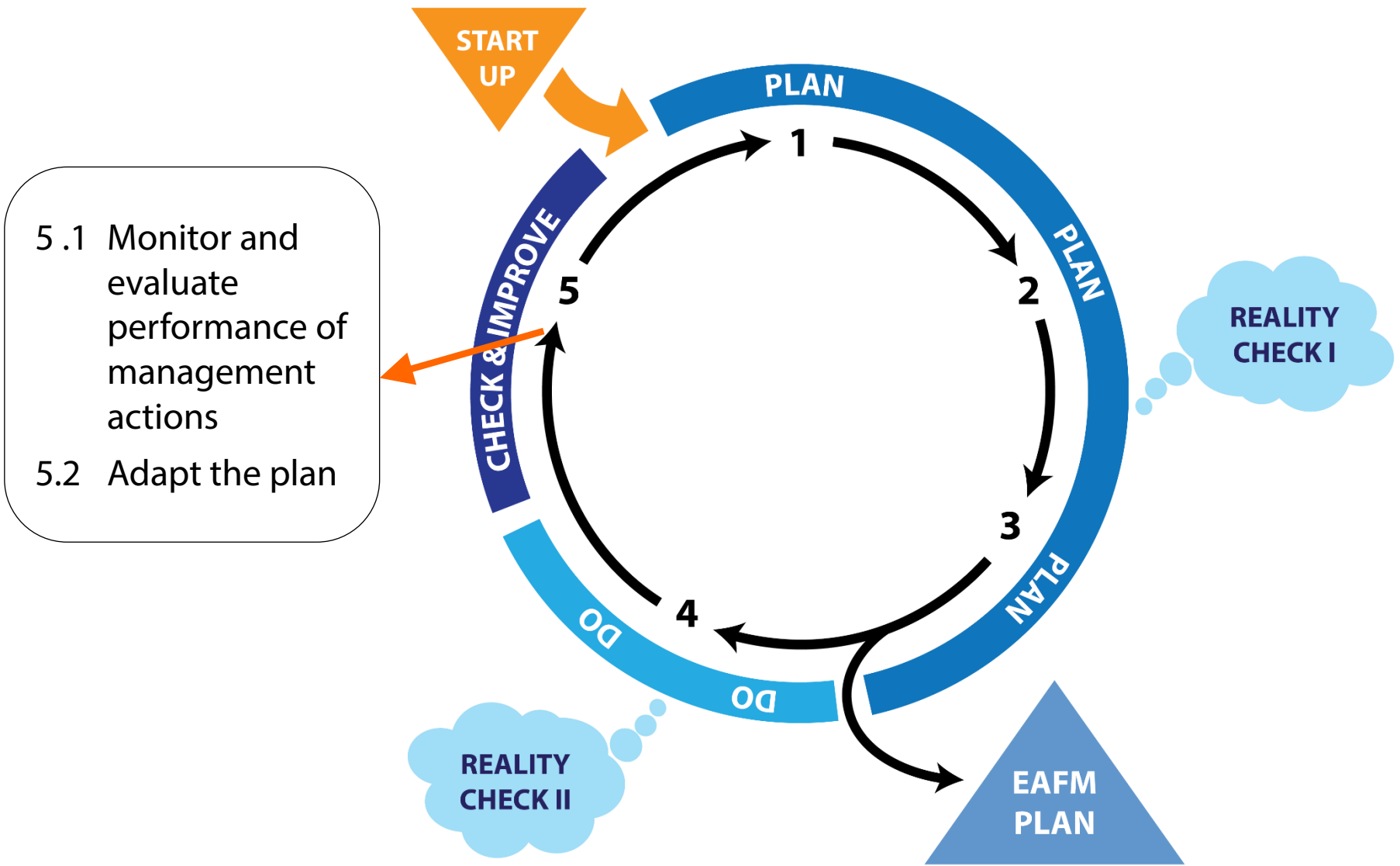
**ASIA**

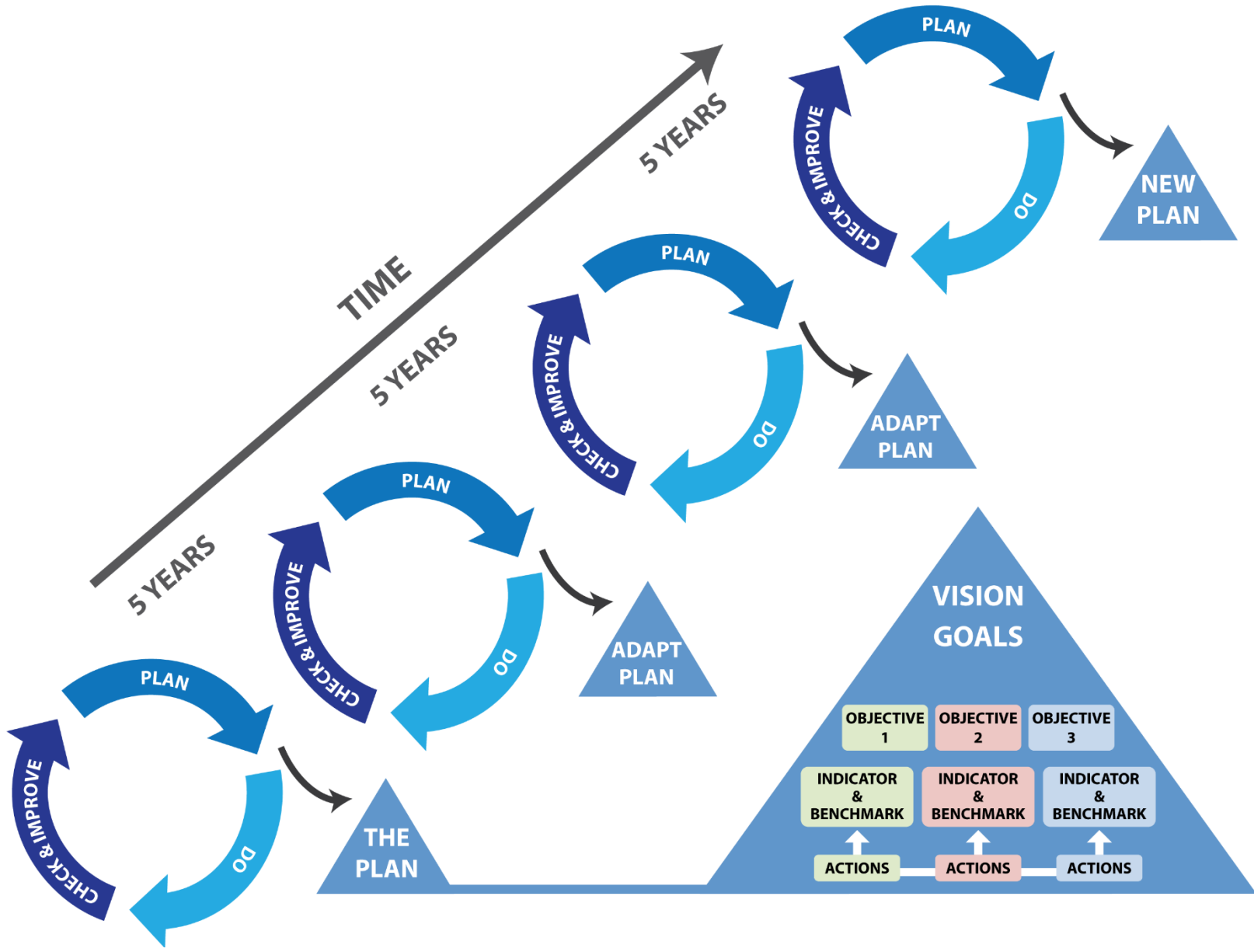


# Session objectives

*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





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



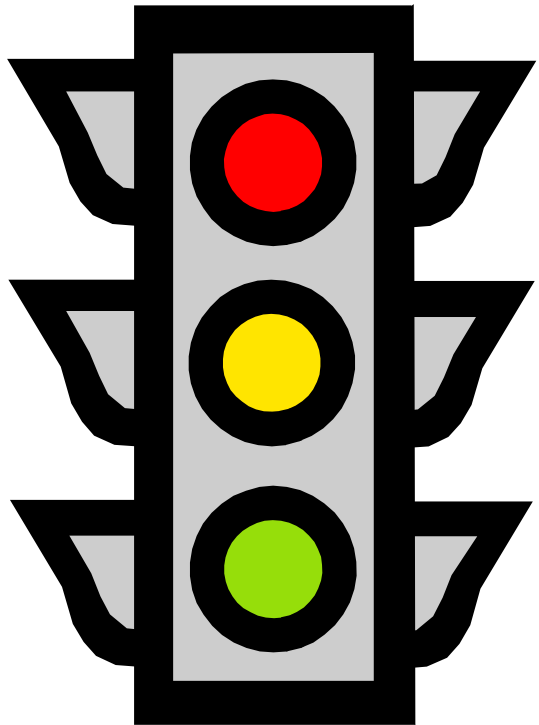
# Communicating and reporting

- 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

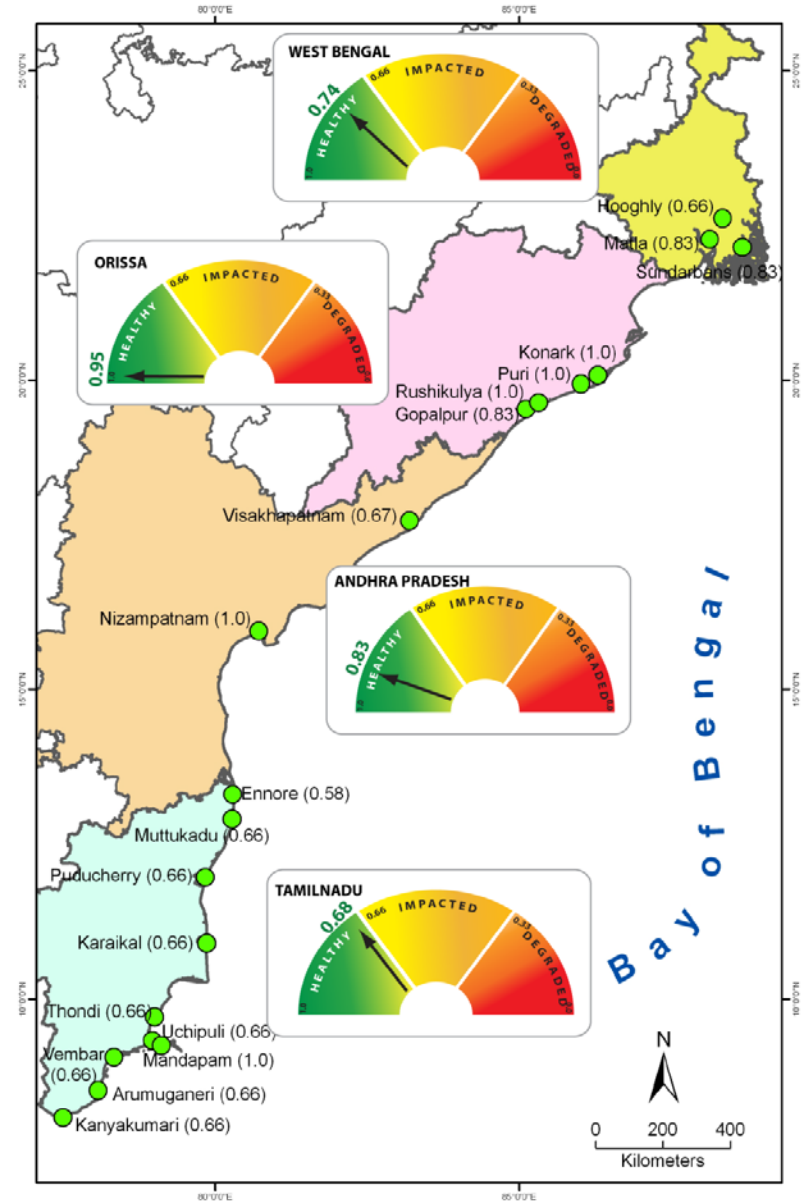
**Green**

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



# Monitoring

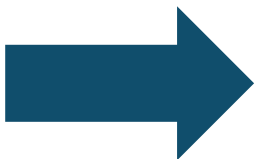
**1 YEAR**



## **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