

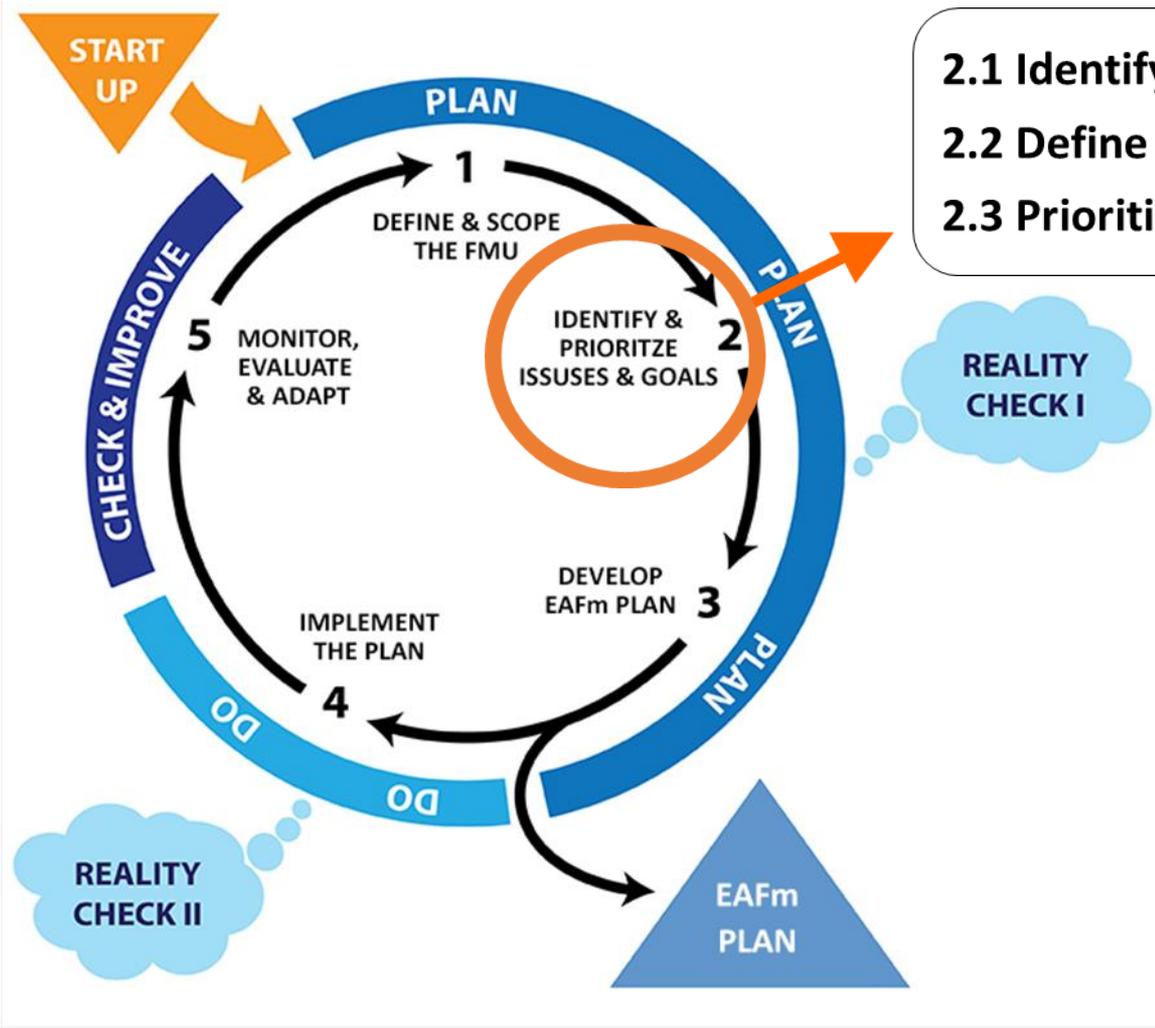
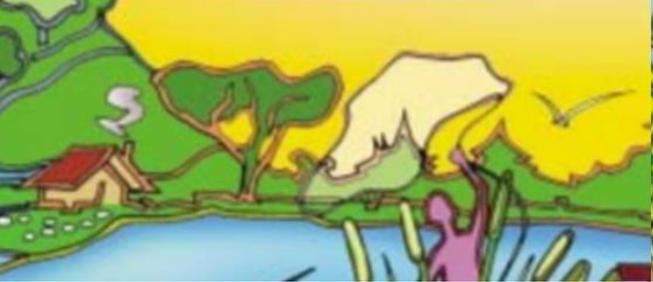


## Session 11

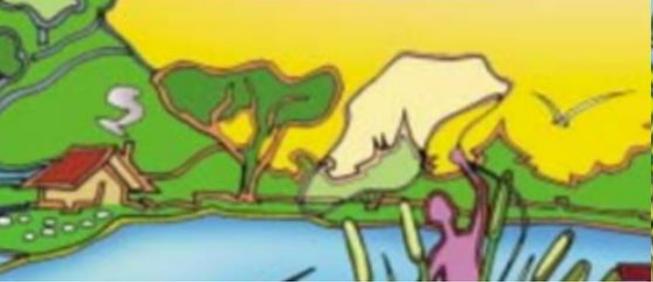
### Steps 2.1 – 2.3

# Identify and prioritize issues and goals

Essential EAFm training  
Date | Place



- 2.1 Identify threats and issues
- 2.2 Define goals for EAFm plan
- 2.3 Prioritize issues



## Session objectives

**After this session you will be able to:**

- Identify your FMU-specific issues
- Prioritize issues through risk assessment
- Develop goals for the EAFm plan



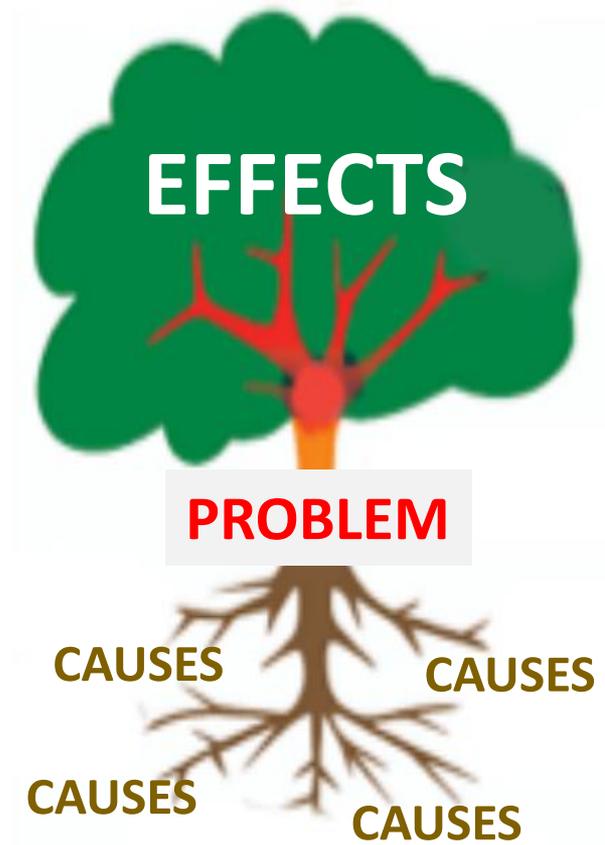
## 2.1 Identify threats and issues for the FMU

- What are the specific threats and issues for the FMU?
- Cover the 3 EAFm components



## Problems, causes and effects

- Wide variety of problems
  - Some are very broad (e.g. climate change, pollution)
  - Some are very specific (e.g. poison fishing, barriers)
- This is because there is a mixture of causes and effects of the issue
- One tool that helps separate out causes and effects is called a **Problem Tree**





## Terms used in a problem tree

**Effect:** the effect created by the problem

- e.g. low household incomes; conflicts between fishers

**Core problem:** the actual problem

**Causes:** the cause of the problem. Can be further broken down into main causes and underlying causes

**Driver:** large-scale events that have a flow-on effect on many issues

- e.g. climate change; growth in population and wealth



## Problem tree example

**Effect**

Declining fisher income high debt

**Core problem**

**Declining fish stocks**

**Main cause**

Unregulated, open access fishery

**Root Causes**

Too many  
fishers/boats

Use of destructive, &  
small mesh fishing gear

**Driver**

Population growth, economic growth  
(high fish demand, increasing costs)



## Problem tree example

Effect

Declining fish abundance and loss of biodiversity

Core problem

Poor fish migration and low recruitment

Main cause

Loss of flow/connectivity

Root Causes

Barriers/weirs/  
reservoirs

Increased erosion, siltation in  
watershed and riparian area

Driver

Land use change and demand for irrigation and water by agriculture



## Activity: In your groups

Using the threats and issues related to fisheries and associated ecosystem develop on day 1

1. Add/remove issues to make them specific to the FMU.
2. Divide the issues into 4 levels on a flip chart – drivers, effects, core problem, and causes

**Note:** Some issues may be too broad (e.g. pollution, dams, climate change) and may need to become more specific.

*Don't worry too much if a given issue is hard to categorise. We will revisit later.*



## Using the problem tree

You can use the problem tree to help:

1. Write section 3 of the EAFm Plan “Threats and Issues”
2. Identify drivers that can be put aside because they are out of our control
3. Sort out which are the real core problems and objectives
4. Identify causes that can be addressed by mgmt. actions



## Using the problem tree to build the plan

**Effects**



**Sets the goals**

**Core problems**



**Give the objectives**

**Causes**



**Management actions**



## 2.2 Prioritizing core problems and causes

Identifying the causes which produce the core problems can result in a long list

Need to prioritize as they cannot all be managed at once

To prioritize them:

- Use a tool to sort them, for example:
  - Simple ranking
  - Risk assessment

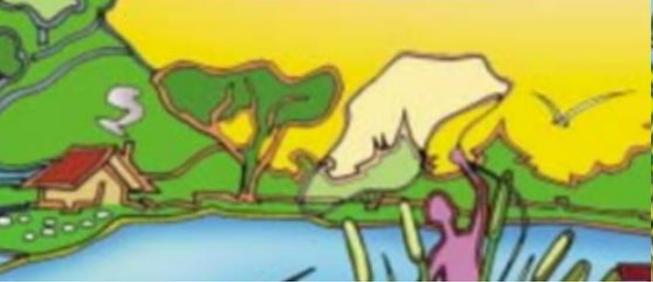


## Risk assessment

How likely is it to go wrong? (likelihood)

What would be the consequences of it going wrong? (impact)

$$\text{RISK} = \text{LIKELIHOOD} \times \text{IMPACT}$$



# Prioritization based on risk

## Impact

-how much change would occur

## Likelihood

-probability of it occurring

High

Likelihood

Low impact Very likely	High impact Very likely
Low impact Unlikely	High impact Not likely

Low

Impact

High



## Activity: In your groups

- Take core problems (and causes) and plot them on a 2x2 risk matrix and then identify the ones that are high risk.

Impact vs. likelihood (Hi/Hi – Lo/Lo)

- Take the Hi/Hi risk problems and group them under the 3 EAFm components



## 2.3 Goals

Take the high impact, high likelihood problems and causes and use these to develop three (or more) goals, relating to the three components, social, ecological and governance) of the EAFm

*A goal paints a picture of what it you want different components of the FMU to look like in the future (5-10 years time)*

### **For example:**

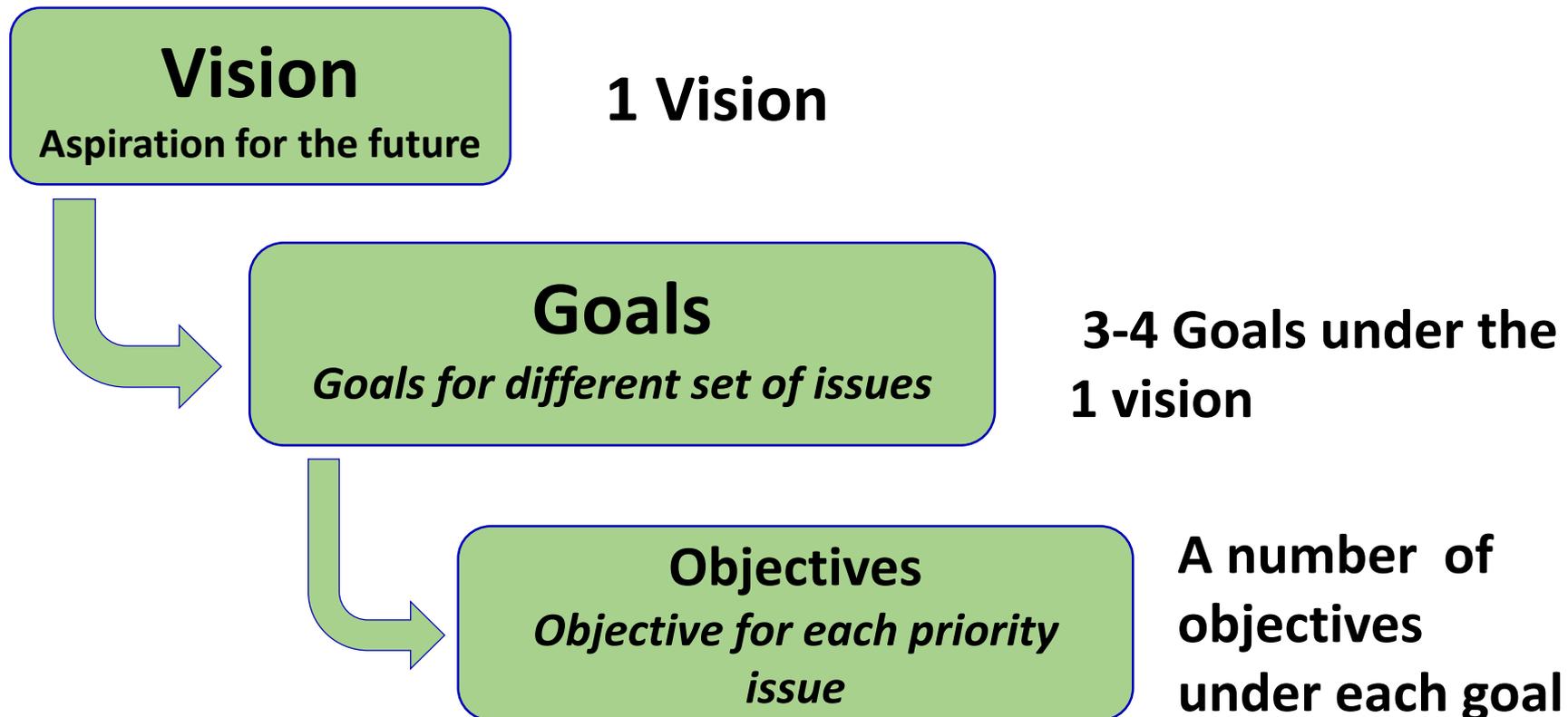
“Restored and sustainably managed fisheries and other living aquatic resources and habitats”

“Improved livelihoods of communities that are dependent on the fisheries resources”

“The FMU is well governed with good compliance and enforcement”

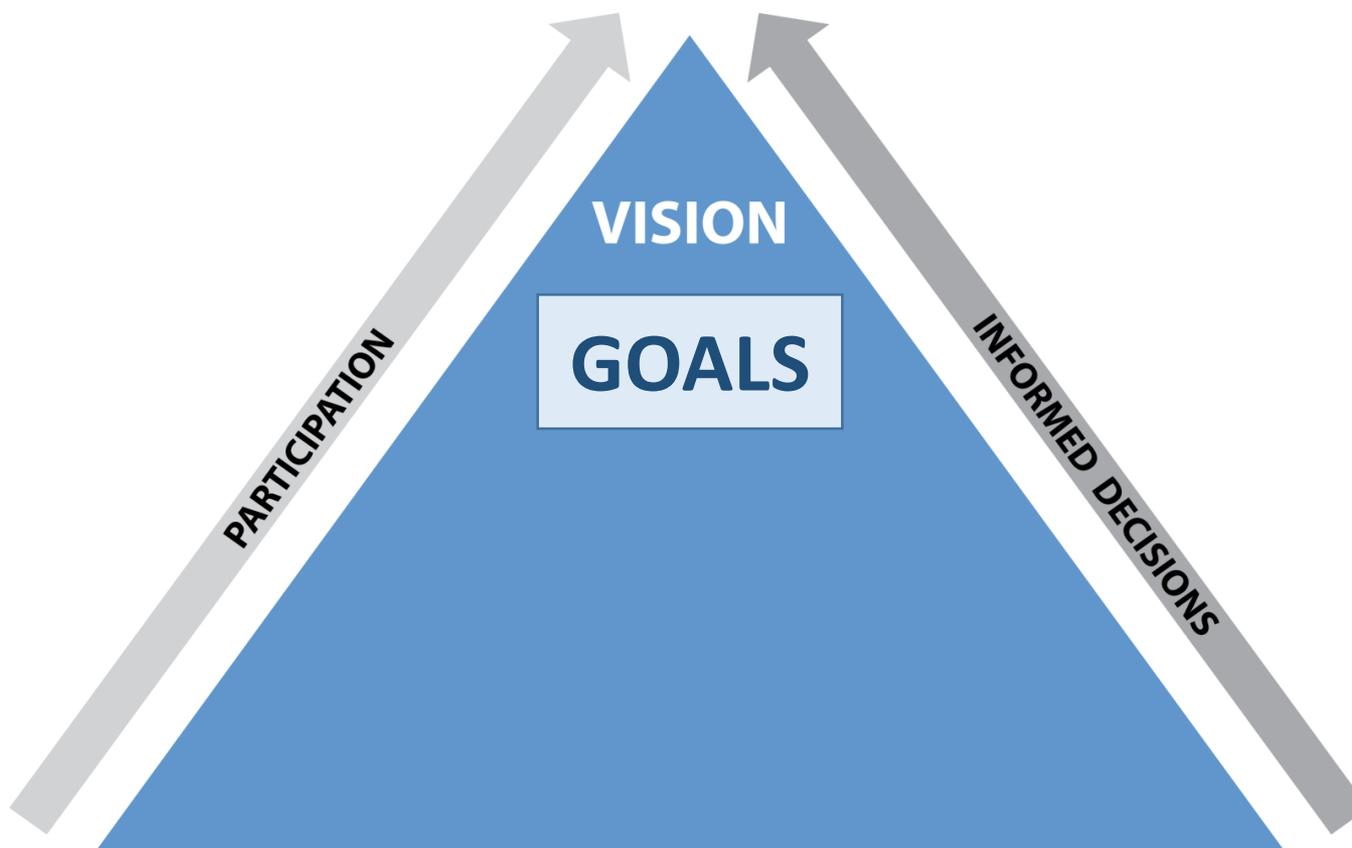


## The levels of the plan





## Building the EAFM plan





## Activity: In your groups

1. Remove drivers from the flip chart (these are out of our control)
2. Group the core problems and their causes within each of the 3 EAFm components
3. Set a goal, that addresses the effects, for each component

**Note:** Ecological well-being = fish + environment



## EAfm Plan outline

We can use the results in the EAfm plan

### EAfm Management Plan for FMU X

1. Vision (Step 1)
2. Background (Step 1)
3. Major threats and issues (Step 2)
4. Goals (Step 2)

*3-4 based on core problems and issues*



## Key messages

### In Step 2:

- Identified: drivers, core problems and causes and effects
- Problems and causes were prioritized so that only the most important are addressed in the EAFm plan
- Set goals for the plan based on prioritized issues
- These will lead to setting objectives and effective management actions