Steps in the Planning Process

1. Define Opportunity/Problem
2. Identify Issues (includes scoping)
3. Redefine Opportunity/Problem
4. Create Alternatives
5. Assess Alternatives
6. Decision/Solution
Define the opportunity or problem

Badlands or bare red soil is contributing sedimentation to reef

Very few tree species can grow on nutrient deficient soils
Identify Issues (use scoping)

Acacia auri can grow but is considered an invasive

Acacia auri breaks up in typhoons

After typhoons, broken up trees are susceptible to fire
Redefine Opportunity/problem

Repeated fires destroying the soil appears to be the root cause of expanding badlands
Redefine Opportunity/Problem

Acacia confusa does not appear to be invasive in Guam, can grow on bad soils, is hurricane resistant, and is allelopathic.

Callophyllum is a native species that can grow on better soils and is hurricane resistant.
Alternatives for Southern Guam

1. Do nothing
2. Plant Acacia auri in the badlands
3. Plant Acacia confusa shaded fuelbreaks, and plant callophyllum along ravine forests
Assess Alternatives

Do Nothing

Fires will continue as before
Erosion on badlands will continue
Assess Alternative 2 – Plant Acacia Auri

- Erosion on badlands will be reduced
- Invasive tree specie may cause trouble
- Heavy fuel loading will probably continue fire problems
Assess Alternative 3 – Confusa fire breaks & Callophyllum plantings

Reduce erosion on badlands
Smaller risk from invasive plant
Should be able to reduce the fire problems over time
Example 2: Kosrae Golf Course Study

**Define Opportunity/Problem**

Japanese business wants to develop a golf resort in Kosrae in Kupla Wan
Identify Issues

Impacts on Wildlife
Impacts on Archaeology
Impacts on Vegetation
Impacts on Marine Resources
Scoping redefined the issues

Social Issues: Golf on Sundays
Water Supply for Utwe
Need for more agroforestry
Agro Forestry
Intensive Agriculture
Assess the Alternatives based on the Issues

Social Issues – Golf on Sunday
Water Supply for Utwe
Need for more agro-forestry
Early in the process need to understand who are the decision makers – this drives what the issues are, which determine the decision.
Basic Planning Process is the same

Define Opportunity/Problem
Identify Issues (scoping)
Redefine Opportunity/Problem
Alternatives
Assess Alternatives
Decision