

# Analyses of Nature-Based Solutions to GHGs

NREM 611 & GHG Sequestration Task Force Partnership

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# NREM 611 – Resource & Environmental Policy Analysis

## Steps in Drafting Policy Alternatives:

1. Designing Impact Categories
2. Mutually Exclusive Policy Alternatives
3. Predicting How Alternatives Will Do in Terms of Goals and Their Impact Categories
4. Valuing Policy Alternatives Against the Goals & Impact Categories
5. Presenting Recommendations
6. Communicating Analysis



Policy Analysis EDITION  
NO. 05

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# Methods

## Problem Analysis

1. Framing and modeling the problem
2. Choosing relevant goals and constraints
3. Selecting a solution method

## Solution Analysis

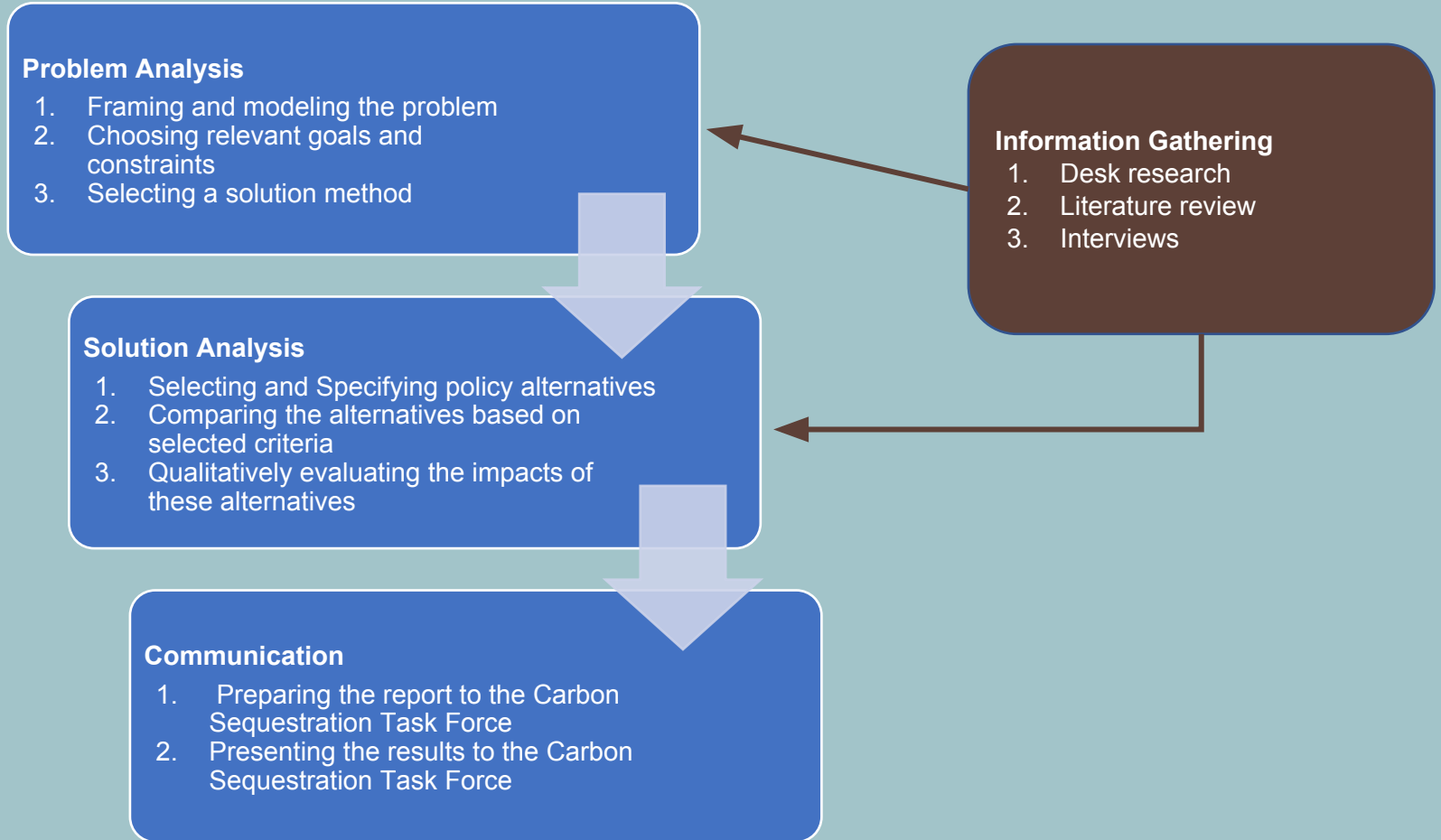
1. Selecting and Specifying policy alternatives
2. Comparing the alternatives based on selected criteria
3. Qualitatively evaluating the impacts of these alternatives

## Communication

1. Preparing the report to the Carbon Sequestration Task Force
2. Presenting the results to the Carbon Sequestration Task Force

## Information Gathering

1. Desk research
2. Literature review
3. Interviews



# Market and Government Failures

**Definition:** situations where the free market or government fails to allocate resources in a way that maximizes social welfare

## Examples:

- Negative Externalities
- Decentralization



# Identifying Alternatives in Response to Failures

## Policy Alternatives to be Valued & Assessed

1. Novel Programs & Policies
  - a. Demand-side
  - b. Supply-side
  
2. Expansion of Existing Program & Policies

How well does each policy alternative achieve the stated goals through weighted impact categories?

# The Relevance of this Project

The Greenhouse Gas Sequestration Task Force aims to promote GHG sequestration using nature-based solutions, by understanding the baseline GHG emissions within Hawaii, and ultimately identifying policies and practices to achieve enhanced sequestration.

Policies were identified by each team to achieve sequestration in each sector.



Governor David Ige signs bills to combat climate change (Governor's Office)