

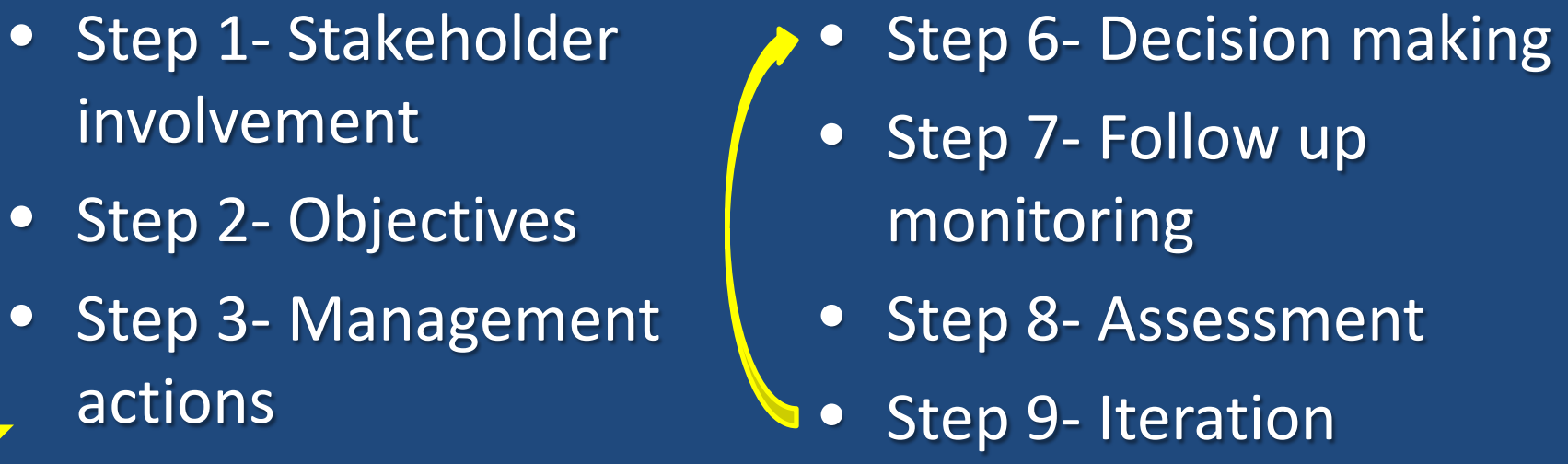
Predictive Models

- Spatial Models vs. Biological Models
- Where vs. what or how much, For example:
- Blueprint for habitat creation locations in the HEC (where).
- Biological indices, habitat diversity , species diversity goals for the HEC (what and how much).

Models in the AM Framework

- Set up
- Step 1- Stakeholder involvement
- Step 2- Objectives
- Step 3- Management actions
- Step 4- Models
- Step 5- Monitoring plans
- Iterative
- Step 6- Decision making
- Step 7- Follow up monitoring
- Step 8- Assessment
- Step 9- Iteration

Models in the AM Framework

- Set up
 - Step 1- Stakeholder involvement
 - Step 2- Objectives
 - Step 3- Management actions
 - Step 4- Models
 - Step 5- Monitoring plans
 - Iterative
 - Step 6- Decision making
 - Step 7- Follow up monitoring
 - Step 8- Assessment
 - Step 9- Iteration
- 

Models in the AM Framework

- **Step 4- Models**

- Characterize system behaviors and responses to management actions.
- Incorporate different ideas about how the resource system works and how it responds to management.
- Capture key uncertainties (or disagreements) about resource processes and management effects.
- Compatible with, and calibrated to, available data and knowledge.

- **Step 5- Monitoring plans**

- Designed to estimate system state and other attributes needed for decision making and evaluation.
- Promote learning through a comparison of estimates against model-based predictions.
- The plan should be efficient

So Why Now?

- Enormous amount of monitoring
- Physical/biological data accumulating
- Several management actions already in the water
- Developing technologies and expertise
- Galvanized public interest
- Growing need to demonstrate past success and refine future actions in common context