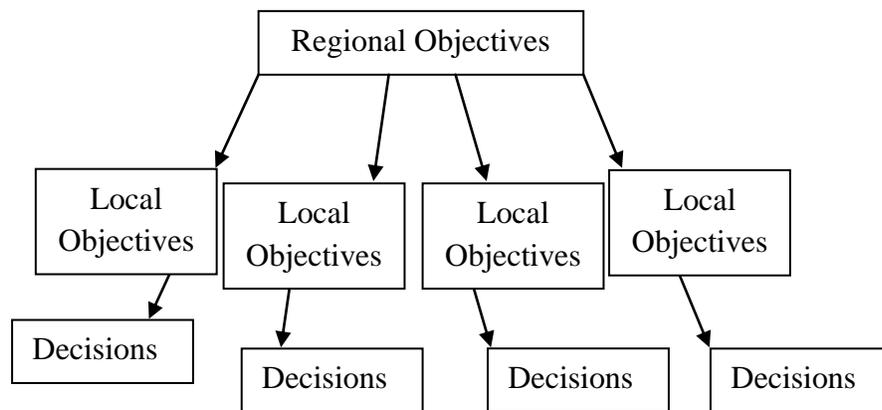


## Metapopulation Breakout Notes

### Tiered Approach including:

- local mgmt. needs
- global questions



### General goals:

Maximize species persistence over some time period

**Casey's question:** Do we know enough about the linkages between habitat and bird response, i.e. carrying capacity, reproductive output, etc. to set regional/local habitat goals within the management strategies to achieve population growth and long-term sustainability?

### Monitoring Metrics

- Assess mgmt. action
- Tracking population change (progress)
- Scale of mgmt vs scale assessment
- Persistence

### Potential Metrics

- Nest success
- Chick survival
- Survival > vital rates?
  - decision context dependant

### Regional Monitoring Objectives

- Minimize cost
- Metrics meet local & regional needs

- Simple
- Feasible
- Statistically valid

**Management Action**

(Increase productivity)

- Predator fencing
- Predator – nest exclosures
- Sandbar creation
- Veg. Management
- Nothing
- Predator control
- Water levels
- Recreation

**May need a data-sharing agreement**