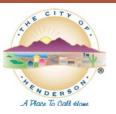


Adaptive Management Program

Scott Cambrin, Senior Biologist August 21, 2014















- Define adaptive management
- What is the adaptive management program?
- How we use adaptive management
- Dissemination of data
- Future projects

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Adaptive Management Program: Adaptive Management Defined

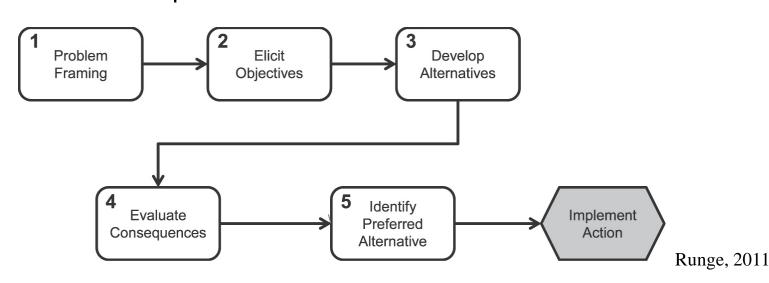
Structured Decision Making

A method for analyzing a decision by breaking the decision into different stages.

Key Elements:

- Problem Decomposition

- Focus on Values





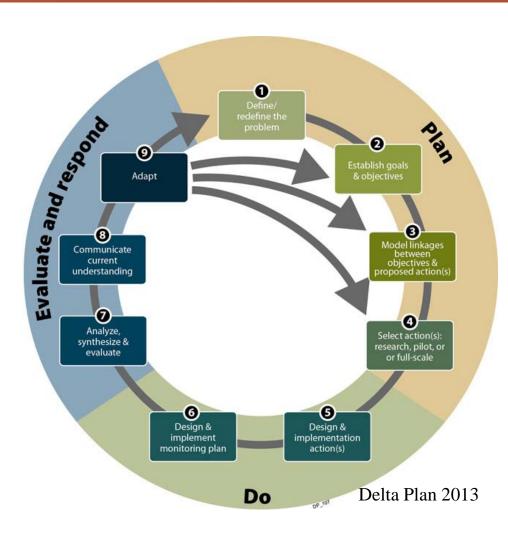
Adaptive Management Program: Adaptive Management Defined

Adaptive Management

A form of structured decision making that promotes flexible decision making that can be adjusted based on uncertainties as outcomes from research and management become better understood.

Differences from structured decision making

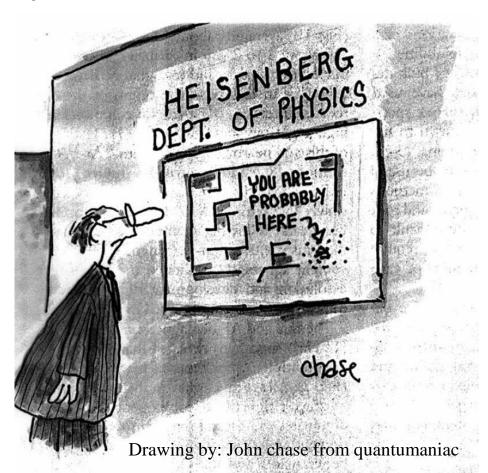
- Recurrent decisions
- Uncertainty



Adaptive Management Program: Adaptive Management Defined

Four Types of Uncertainty

- Environmental variation
- Partial observability
- Partial controllability
- Structural or process uncertainty



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desert conservation PROGRAM respect, protect and enjoy our desert! Adaptive Management Program: What is the Adaptive Management Program?

Multi-Species Habitat Conservation Plan

"...[Those involved] are proposing an Adaptive Management Process to gauge the effectiveness of existing conservation measures and to propose additional or alternative conservation measures, as the need arises, and deal with changed or

unforeseen circumstances."

desert conservation Adaptive Management Program: What is the Adaptive Management Program?

The Adaptive Management Program:

- Provides objective, science-based approach to the implementation of the MSHCP
- Helps direct expenditures
- Leads projects that further the MSHCP
- Maintains a database on all covered species
- Ensures an adaptive management approach to all actions



Adaptive Management Program: What is the Adaptive Management Program?

Who is Involved

- DCP staff
- Science advisor
- visor 🌎
- **Enduring Conservation Outcomes**

- Agency personnel
- Land managers
- Academics

















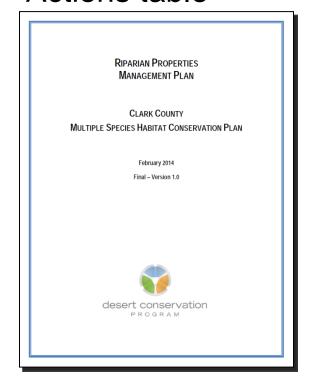


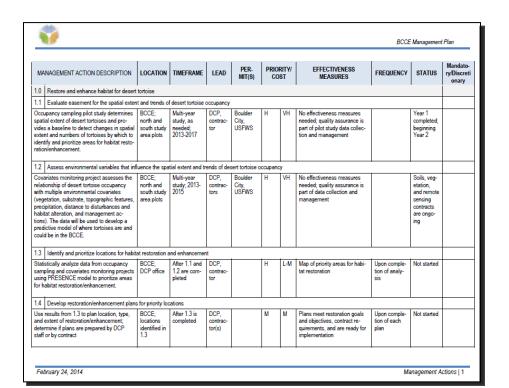
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Management Plans

- Use in development of restoration plans
- Actions table





Restoration Plans

- Literature search
- Coordination with local agencies





Riparian Restoration

- Potentially revise planting plan
- Revise fencing to keep out cattle



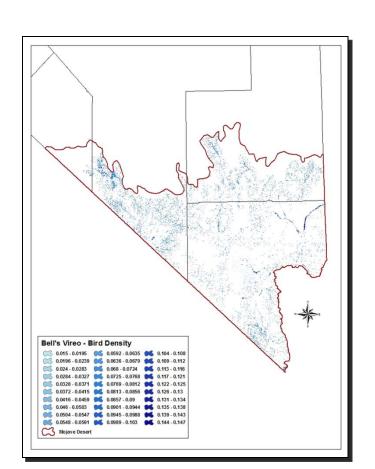


Riparian Monitoring

- Vegetation photo points
- Baseline bird surveys



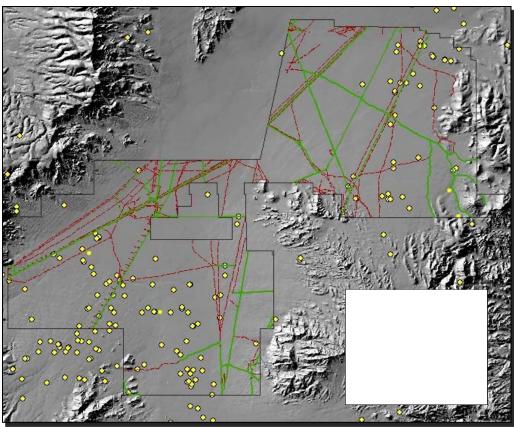
photo by: Martin Meyers



BCCE Restoration

- Prioritizing using tortoise locations
- Focus on closing roads







BCCE Fire Management

- Determine fuel loads
- Treat weeds









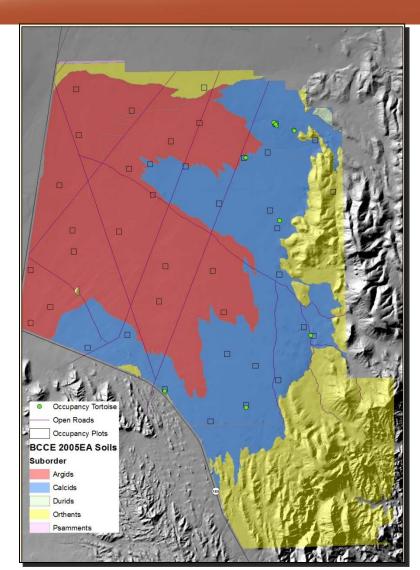
Photos by: LA DeFalco



Tortoise Translocation

- Tortoise occupancy
- Covariates



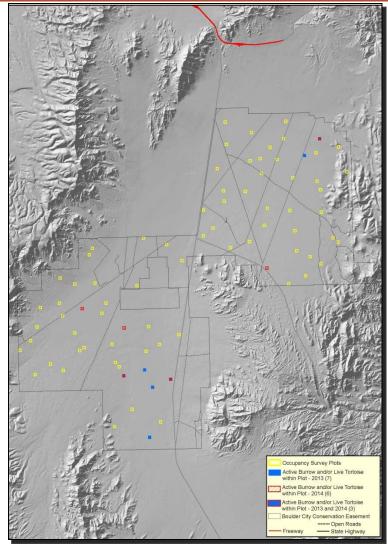




Tortoise Occupancy Surveys

- 2 years of field data
- Eldorado pre-translocation surveys





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Adaptive Management Program: Dissemination of Data

DCP Website

http://www.clarkcountynv.gov/depts/dcp/Pages/DCPReports.aspx

Symposium



- Define adaptive management
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Adaptive Management Program: Next Steps

- Modeling tortoise habitat
- Connectivity
- Range-wide monitoring
- Further restoration on the BCCE and riparian properties







desert conservation

Adaptive Management Program:

respect, protect and enjoy our desert!

