



What's next: iteration and other options

ALC3194: Scenario Planning Toward Climate Change
Adaptation
Module 13

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Wildlife Conservation Society

Module Outline

1. SP as an iterative process
2. Building off of SP and feeding into other processes
3. Real-world examples from the instructors

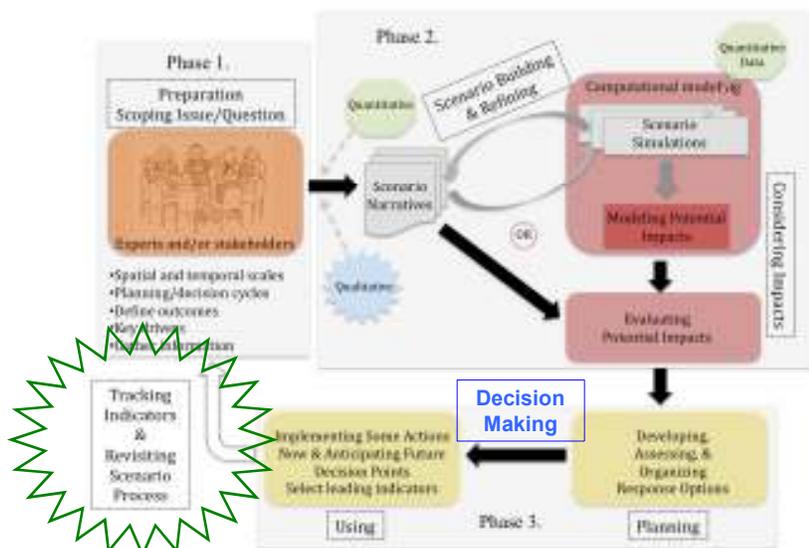
Module Objectives

By the end of the session, you should be able to:

- Recognize how SP efforts can evolve and feed into other processes
- Identify the potential value of SP to different points in planning and decision processes
- Describe some tangible examples to others

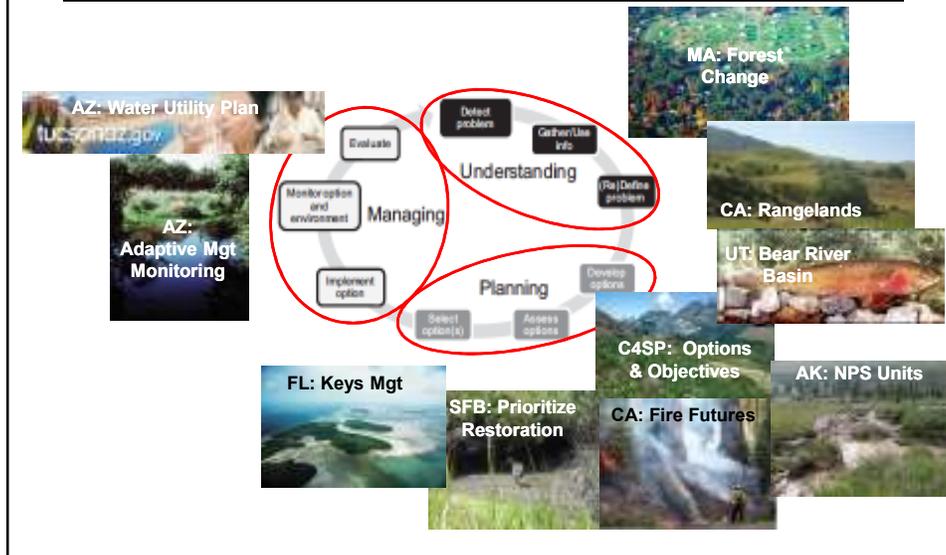
3

Beyond the initial SP effort



4

The guide case studies...not quite



What's next?

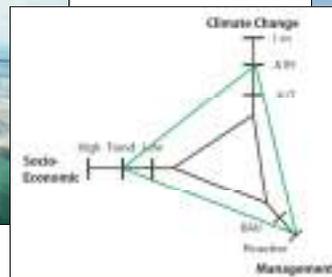
- Some form of iteration of the SP process
 - Revising or creating new scenarios to address at identified decision point or in response to new information
 - Designing a more comprehensive process from a “table-top” type exercise
 - Building off initial efforts and tackling similar issues at different spatial scales

Southern Sierra Nevada California: Sequoia-Kings Canyon National Parks & Sequoia National Forest



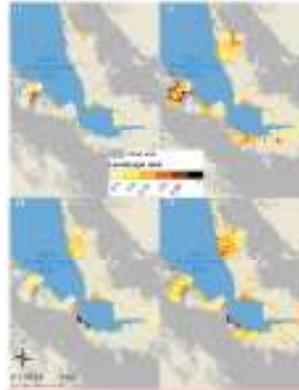
What should we be doing with fire/fuel management to meet future resource goals under such rapidly changing uncertain conditions?

Florida Keys Marine Adaptation Planning (KeysMAP)



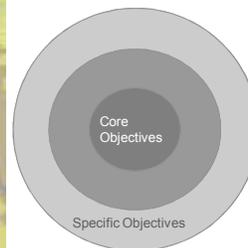
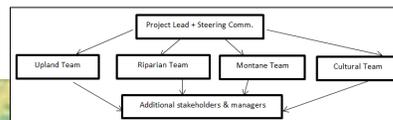
Enable ecosystem and resource managers to 1) develop scenarios that they want examined and 2) interpret the possible outcomes so that they may identify appropriate management strategies

San Francisco Bay Estuary: Tidal marsh restoration and conservation planning in the face of uncertainty



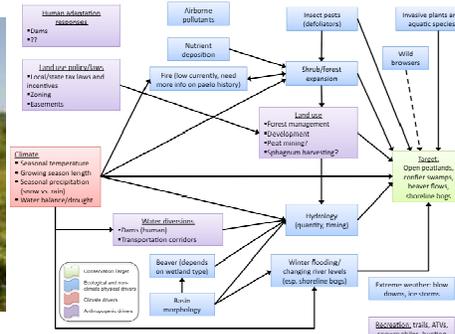
Assess impacts of climate change on estuary tidal marshes and bird populations to identify and prioritize sites for restoration and conservation

From Adaptive Management to Climate Adaptation at Las Cienegas National Conservation Area (Arizona)



Blend adaptive management with scenario planning to generate indicator-based portfolios of adaptation options

Conservation planning for climate change impacts to Lowland Boreal wetlands in the Adirondack Park, NY



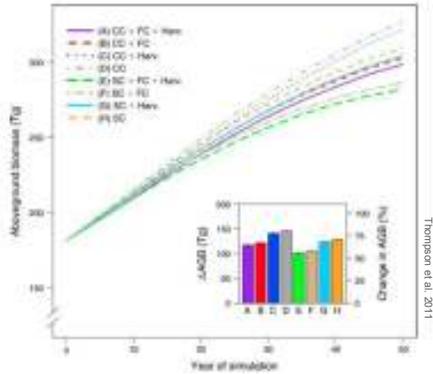
Identify priority conservation actions that will help protect lowland boreal ecosystems in a changing climate.

Module 13-Take Home

- SP can be a stand-alone effort but, given the nature of scenarios and the uncertainties they represent, is most effective as an iterative process
- Iteration in SP can involve (1) revising or creating new scenarios in response to new information or pre-identified decision points and ; (2) designing a more comprehensive process from the outputs of a pilot or rapid “table-top” type exercise; (3) building off initial efforts and tackling similar issues at different spatial scales
- SP outcomes can feed into different decision-making processes (e.g., SDM, adaptive management)



Forest Scenarios-Massachusetts Land Use, Climate Change and Transformations of Forest Landscapes



Thompson et al. 2011

How can scenarios about the relative influence of climate change, forest dynamics, forest management and conversion on ecosystem services motivate forest policy and conservation?