

## Outline of Analytical Framework

### 1. Process Management

The Decision Analysis (DA) group is comprised of experts from U.S. Geological Survey (USGS) (Sarah Converse, Dave Smith, post-doc) and USFWS (Steve Morey). The role of this group is to advise the USFWS on approaches for structuring the major management decisions: in particular, determination of listable entity and status. The methods the team will employ are well established within decision science. The goal of a structured decision-making process is to frame decisions that are deliberative and transparent. This team will work with the decision makers to establish a decision framework, assist in developing analytical methodologies to predict extinction risk, facilitate workshops to elicit expert judgments for assessing risk, and facilitate workshops with the decision makers to elicit risk tolerance leading to a final status determination. The DA group will fulfill their role by functioning as members of the Core Team and working with modeling experts within the Core Team (Kevin Doherty) to develop appropriate analyses. As the needs for expert elicitation are clarified, the DA group will organize workshops in consultation with other members of the Core Team.

### 2. Key Policy Questions

Need to be completed asap, as little will change between now and July 15.

- a. Climate change
  - i. Great Basin
  - ii. East Slope
  - iii. What is Foreseeable Future for climate change
- b. Distinct Population Segments – *paper in progress now*
  - i. Position on genetic divergence
  - ii. Position on degree of distinctness (how much introgression?)
  - iii. Map out possible DPSs for future T&E assessment, if needed
- c. What is significant portion of the range?
  - i. We need a presentation and discussion on this topic
  - ii. Map out possible SPRs, for future assessment, if needed?
- d. Assurances (ala bi-state, the commitment to accomplish rather than documentation of having accomplished and being effective)
  - i. What do we need in terms of agreements from entities working on threats like fire and invasives?
- e. Adequacy of existing regulatory mechanisms (there is an element of policy here, what is adequate? How do we resolve this before making a determination?)
- f. How will we define the universe of situations that might constitute "Threatened" vs. "Endangered" vs. "Not Warranted" – and how does the COT report help us?