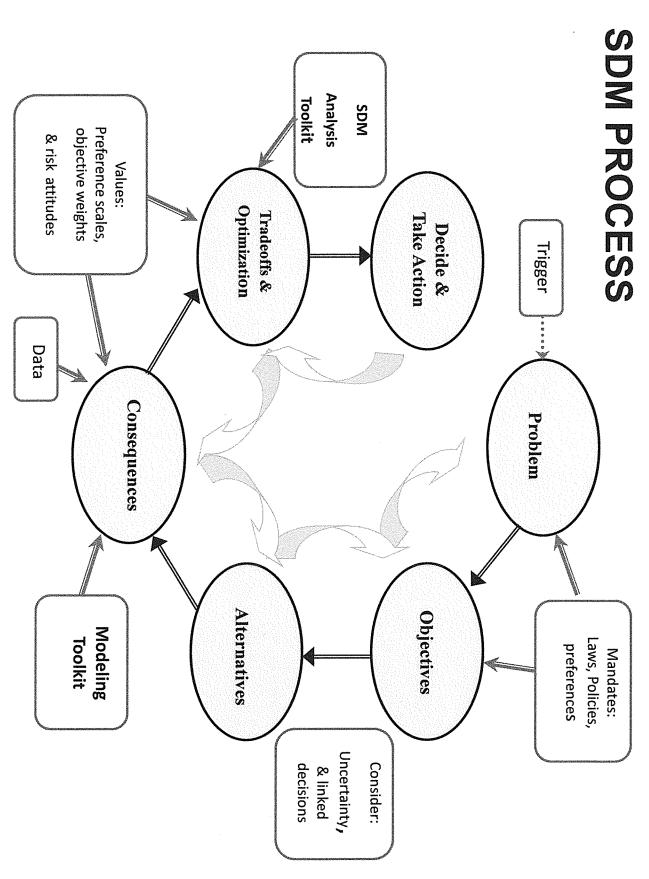
## August 2010 SDM Workshop

## Two key elements of SDM

- Problem decomposition
- Break the problem into components (separate policy from science).
- Analyze relevant components.
- Recompose the parts to make a decision.
- Focus on values
- them drive the analysis Determine objectives (values) first, and let
- Contrast this with intuitive decision-making, which usually jumps straight to alternatives.





Credit: Jean Cochrane

#### Proposed SDM process (1)

#### Purpose:

Identify a set of geographic units

- that spans the US (and implicitly North America).
- within which it is necessary and wolves under the ESA. appropriate to assess the status of



## Proposed SDM process (2)

- Articulate objectives, including:
- Legal requirements, definitions, and policy constraints under the ESA
- Stakeholder concerns
- Practical limitations
- Organize objectives
- Objectives hierarchy
- Fundamental vs. means



## Proposed SDM process (3)

#### Identify individual geographic units

- Species, subspecies, or distinct population segments
- Driven by ESA definitions, current understanding of taxonomy, and population biology

# Identify alternative sets of geographic units

- Each set is a portfolio of individual units.
- Each set accounts for all of the Lower 48.
- We can enumerate all possible combinations, but it may criteria that arise from the objectives be more appropriate to screen alternative sets based on



## Proposed SDM process (4)

- Analyze how each alternative set achieves the fundamental objectives
- Multiple-objective tradeoff analysis
- Select a set of geographic units
- Provide a recommendation to the Director of the Service
- This paves the way for status assessment.

