From:	Smith, David
To:	Norman, Kate
Cc:	Sarah Converse; Steven Morey; Kevin Doherty; Pat Deibert; Lief Wiechman; Nicole Alt
Subject:	Re: Next week"s GSG 2015 SDM Briefing
Date:	Monday, May 05, 2014 1:12:31 PM
Attachments:	GSG SDM briefing draft 5May2014 v2.pptx

Kate et al.

Attached are some slides that Sarah and I drafted as a starting point and for your consideration. These could be inserted into the presentation you've outlined.

Talk to you soon,
Dave

David R. Smith
USGS - Leetown Science Center
11649 Leetown Road
Kearneysville, WV 25430
drsmith@usgs.gov
304-724-4467
https://profile.usgs.gov/drsmith

On Fri, May 2, 2014 at 12:35 PM, Norman, Kate <kate_norman@fws.gov> wrote:

> Good Morning-
>
> As you know, we've been asked to present a short overview on the SDM approach for greater sage-grouse 2015 Status Review with a focus on the modeling work.
>
> Here's what I'm thinking in terms of next week's briefing, but if folks have ideas for a better flow or better way to present, just let me know!
>
> 15-20 minutes for total presentation
>
> PRESENTATION:
> This is my first-blush attempt at sketching out a possible presentation for next week- feel free to do whatever works best for you. I'm not wedded to any of it except the overall time frame :)
> https://portal.doi.net/usfws/SG/docs/20140507_GSG_SDM_Briefing.pptx
>
> - **Intro** (Kate or Mike T.?): Title Slide - Thanks for being here; goals for today
> - **Background** (Pat or Mike T.?): 1 slide - explaining 2005, 2010 work; challenges that were faced that could be served by SDM approach
> - **SDM General** (Dave/Sarah): 1-2 slides - Big principles for SDM
> - **SDM GSG** (Dave/Sarah): 1 slide - What came out of the 3-day meeting Objectives, Measures, lead to Model approach.
> - **Model Approach** (Dave/Sarah)**:** 1-2 slides - Plan of action (Model workshop, Expert review of model, Expert Elicitation)
> - **Model Work FWS** (Kevin): 1 slide - What Kevin's work brings to the table, how it

will be included in overall Uber Model.

- **Wrap Up** (Kate or Mike T.?): Is the model approach, model workshop peachy? Recap goals

Does that sound acceptable?

Please let me know how I can help or if there are any fatal flaws that I've missed :)

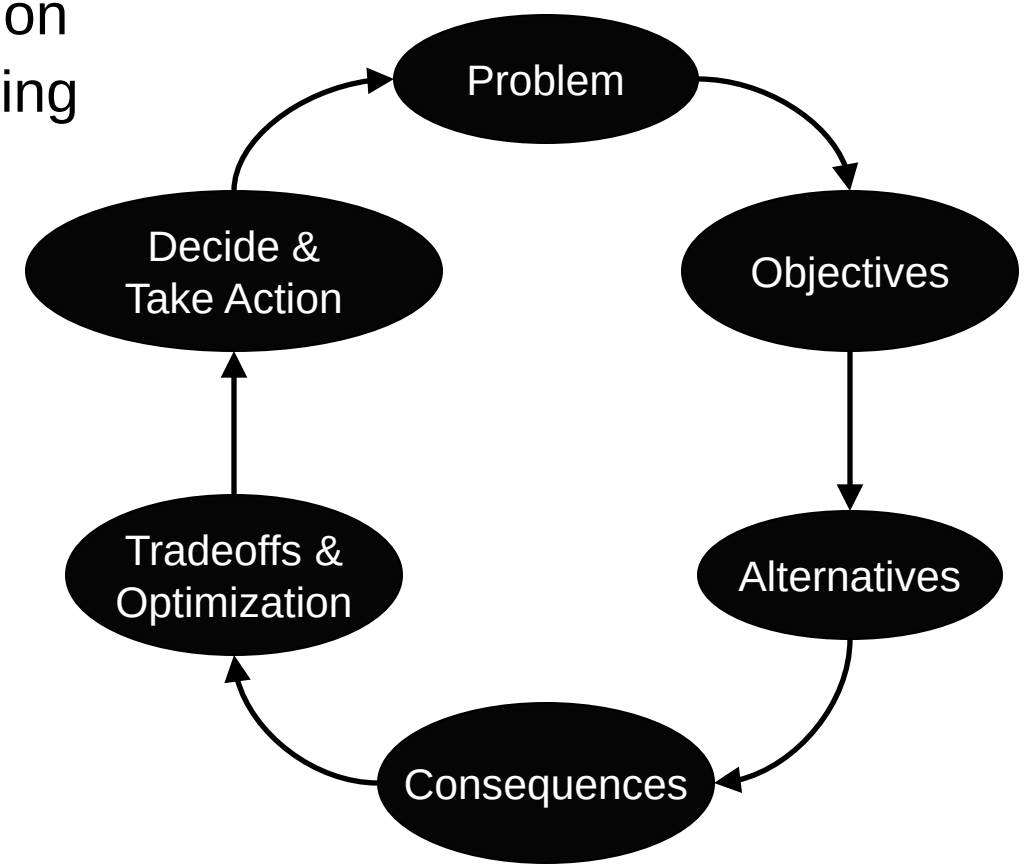
Thanks!
K

P.S. Per Dave's suggestion, I have also added a calendar invite for next Monday at 4:00 pm to discuss this presentation.

--
Kate Norman
Sage-Grouse Project Manager
U.S. Fish and Wildlife Service, Headquarters
4401 N. Fairfax Dr., Rm 420
Arlington, VA 22203
Work: 703-358-1871
Mobile: 703-927-2445
kate_norman@fws.gov

Structure Decision Making

- A guide for defensible decision-making
  - Problem decomposition
  - Values-focused thinking
- PrOACT Steps
  - Problem
  - Objectives
  - Actions
  - Consequences
  - Trade-offs
  - Additional steps



Decision Makers

- The decision maker for the status of the species is the Secretary of the Interior as advised by the Director of the Service. The Regional Directors will make decision recommendations with the assistance of the Assistant Regional Directors and the Core Team.

Decision Points

- Identify potential geographic areas of concern by spring 2014 and
- Complete the status review with recommendation for list determination by April 2015
- Submit federal register document(s) by September 2015.

Objectives

- The fundamental objective is long-term persistence of greater sage-grouse consistent with the ESA.
- Long-term persistence of greater sage-grouse requires
  - conserving and restoring healthy sagebrush shrub and native perennial grass and forb communities, and
  - ameliorating threats to long-term persistence.
- The decision maker will have predictions of long-term persistence and geographic spread of the species into the future. This information must be combined with the DMs risk tolerance to reach a decision.

Objectives

- Process objectives**:**
  - Maximize legal defensibility,
  - A streamlined and efficient process,
  - An internally- and externally-transparent process,
  - A clear rationale for decision making, and
  - Maximize scientific soundness.
- *Strategic objective:*
  - Maintain relationships with federal, state, and Tribal partners through consistent communication and a transparent process.

Performance measures (response variables)

- Resilience at population or Priority Area for Conservation
  - Abundance or proxy for abundance (e.g., lek count or patch occupancy), and derived measures (e.g., population growth or trend).
  - Amount, extent, and quality of sagebrush shrub and native perennial grass and forb communities.
- Redundancy within Management Zone or potential listable entity
  - The number or percent of populations that persist
  - The amount of well-distributed and connected healthy sagebrush shrub and native perennial grass and forb communities.

Performance measures (response variables)

- Representation (measure of adaptive capacity)
  - Genetic diversity
  - Geographic diversity

Scientific analysis to inform status review

- An analytical framework to assess effects of threats and resource management plans
- The analysis will link sage-grouse and habitat to threats and management
- Series of science workshops to develop, review, and parameterize

Scientific analysis to inform status review

- **May**: Identify the more credible and feasible modeling and analytical approaches
- **June:** Hold an in-person science workshop to develop the analytical approach with broad representation from the science community including those with an established scientific record of
  - modeling key relationships between threats, habitat, and sage grouse,
  - research in sage grouse or sagebrush ecosystem ecology, or
  - research in advanced modeling or analytical methods applicable to the status review.
- **July:** Follow with a peer-review workshop to strengthen the approach.
- **August/Sept:** Hold expert elicitation workshop(s) to parameterize models will as needed.