

## Existing Expertise

### *Biologists – Pat Deibert*

In addition to teams identified in Kate's overview document, there are a number of teams that were part of the plan revision work.

There are also individuals with the FWS who have sage-grouse expertise who are not currently working on sage-grouse. Their availability is uncertain.

### *Energy – Lief Wiechman*

The energy team was formed to work on issues related to sage-grouse and energy (oil, gas, wind, transmission lines, coal). Drue DeBerry is the team lead.

### *GIS – Kevin Doherty*

Current GIS Team is focused on data standards and storage. Specific individuals from this team may do work, but additional capacity may also be available.

- Inventory and Monitoring, Refuge Program
- NSST (former NWI)
- Region 8 may also have some capacity

### *Modeling – Kevin Doherty*

Modeling team is very new; it will tie in with what USGS is doing with SDM

Basic Concept: Spatial exposure to risk. Population models linked to habitat. Risk models linked to exposure. Kevin Doherty was brought on to assess what information is available and what information is lacking and to try to address gaps.

### *Discussion of Modeling*

Modeling options were discussed. Specific tools available will be determined in future, but, ideally, multiple approaches would be employed. The challenges of incorporating data that is not currently available into the model were raised. The specifics identified in the planning for BLM and others and the information that will be housed in the Conservation Efforts database will need to be considered before the actual information is available.

From a modeling standpoint, we need to determine what we really care about so that we can move forward.

## Relationship of Threats to Performance Measures – Sarah Converse

We need to connect our threats to things we care about.

- 1- Build relationship between threats and things we care about.
- 2- Then project threats through time

We need to think about the relationship between threats and the metrics (things we care about).