Oregon Sage-Grouse Conservation Partnership (SageCon)

Web Tools for Sage-Grouse Planning

Megan Creutzburg, Institute for Natural Resources
Michael Schindel, The Nature Conservancy

Decision Support Tools Workshop November 7, 2017



Introduction

- Sage-Grouse Conservation Partnership (SageCon) collaborative group to address threats to sage-grouse in Oregon
- 2010-2015 Sage-Grouse Action Plan development
- Emphasis on a coordinated approach All Lands, All Threats
- Oregon Decision Support System for Sagebrush Steppe (ORDSS)
 - Central role in the Action Plan to coordinate data sharing and implementation planning
 - As we are implementing the Action Plan, it has formed into specific tools
- Geographically focused on Oregon, geared toward sage-grouse

SageCon Web Tools in Development

1. Development Siting Tool

- Help developers minimize impacts to sage-grouse habitat
- Project-specific siting information and contacts
- Status: Beta version

2. Sage-Grouse Data Viewer

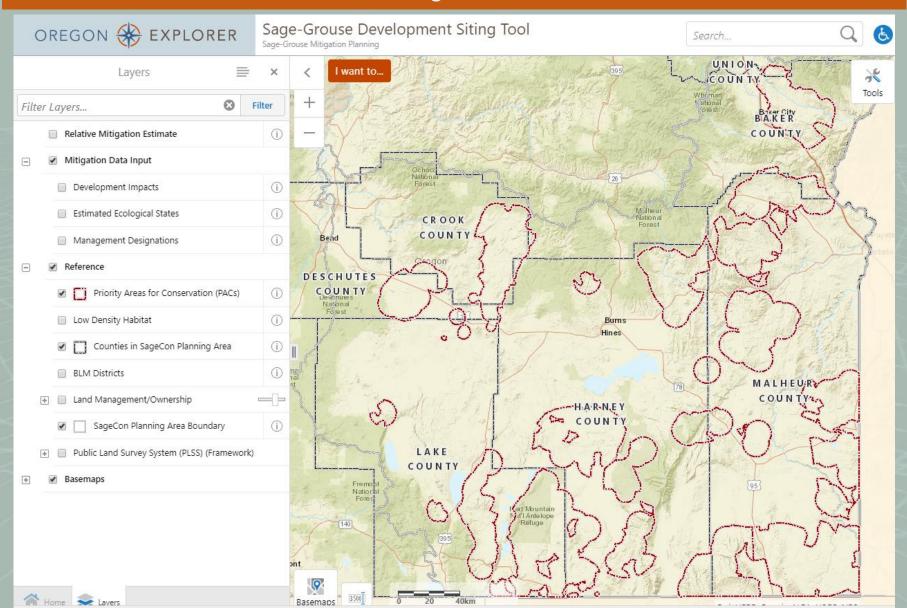
- Provide sage-grouse data and themes in a single place
- View data in web tool or download for further analysis
- Status: Initial version complete

3. Restoration Planning Tool

- Support strategic restoration planning across ownership boundaries
- Support mitigation credit siting as a complement to the Development Siting Tool
- Status: Scoping

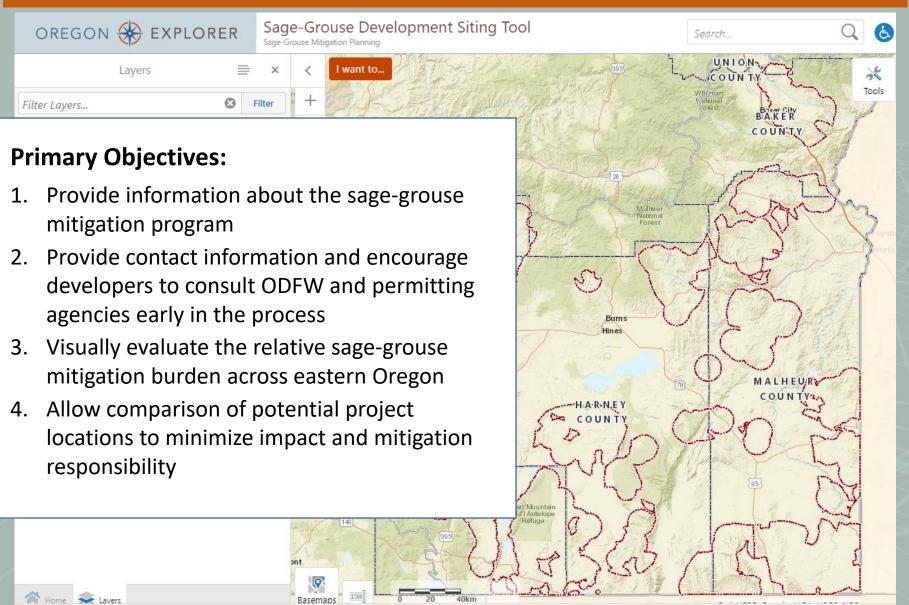
Sage-Grouse Development Siting Tool

Web tool to assist developers in avoiding important sage-grouse habitat and minimizing their mitigation burden



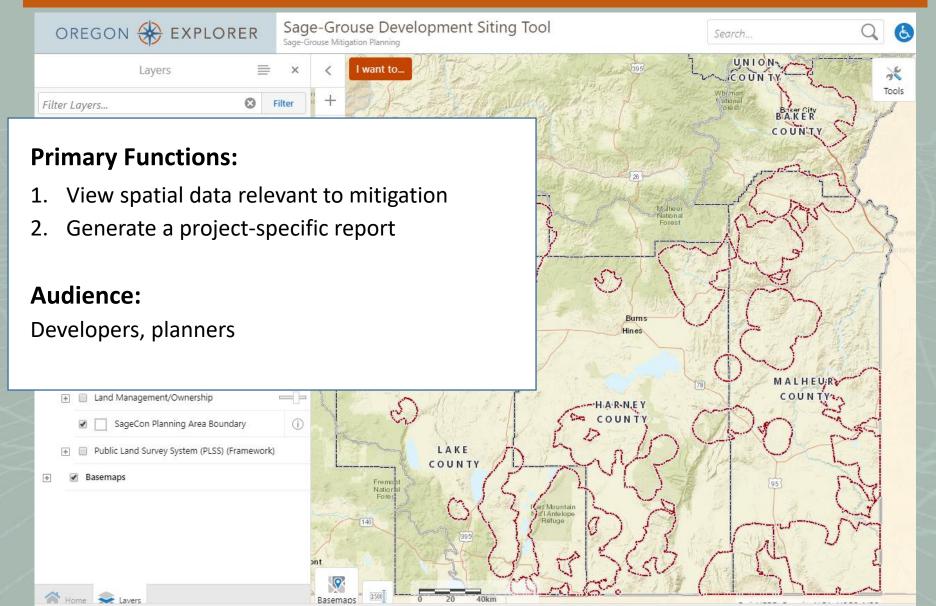
Sage-Grouse Development Siting Tool

Web tool to assist developers in avoiding important sage-grouse habitat and minimizing their mitigation burden

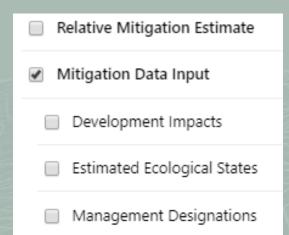


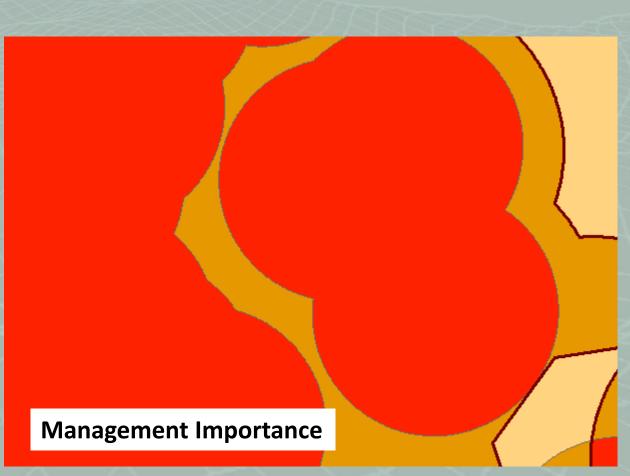
Sage-Grouse Development Siting Tool

Web tool to assist developers in avoiding important sage-grouse habitat and minimizing their mitigation burden

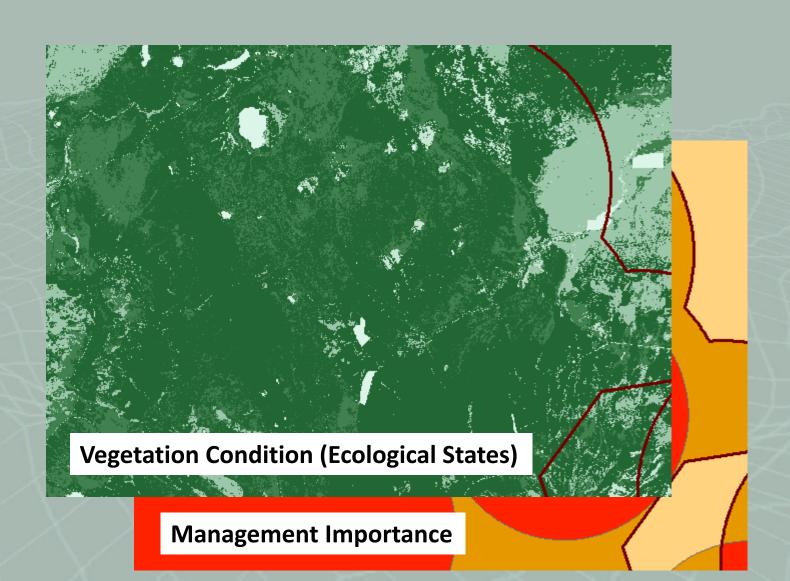


1. Visualize Spatial Data Relevant to Mitigation

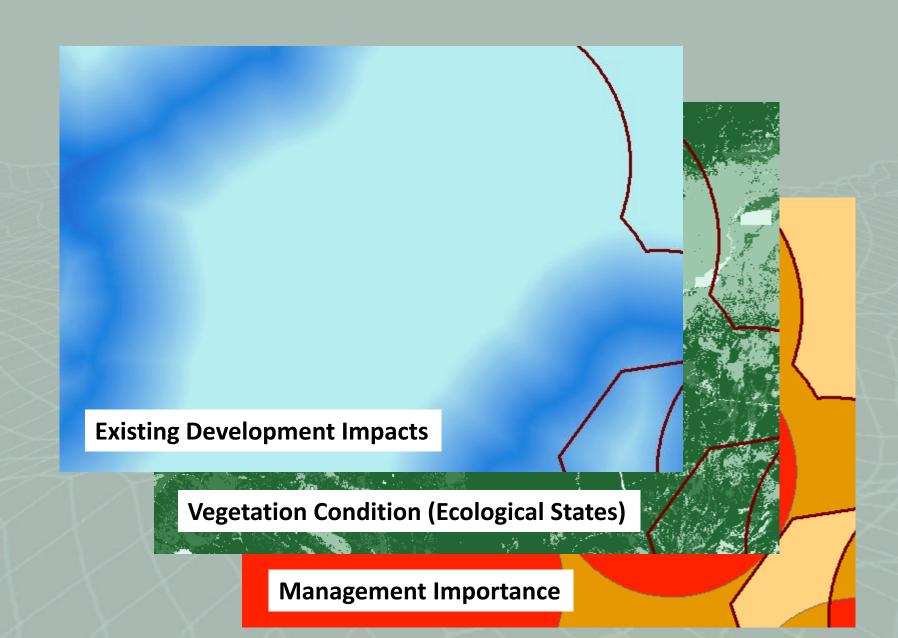


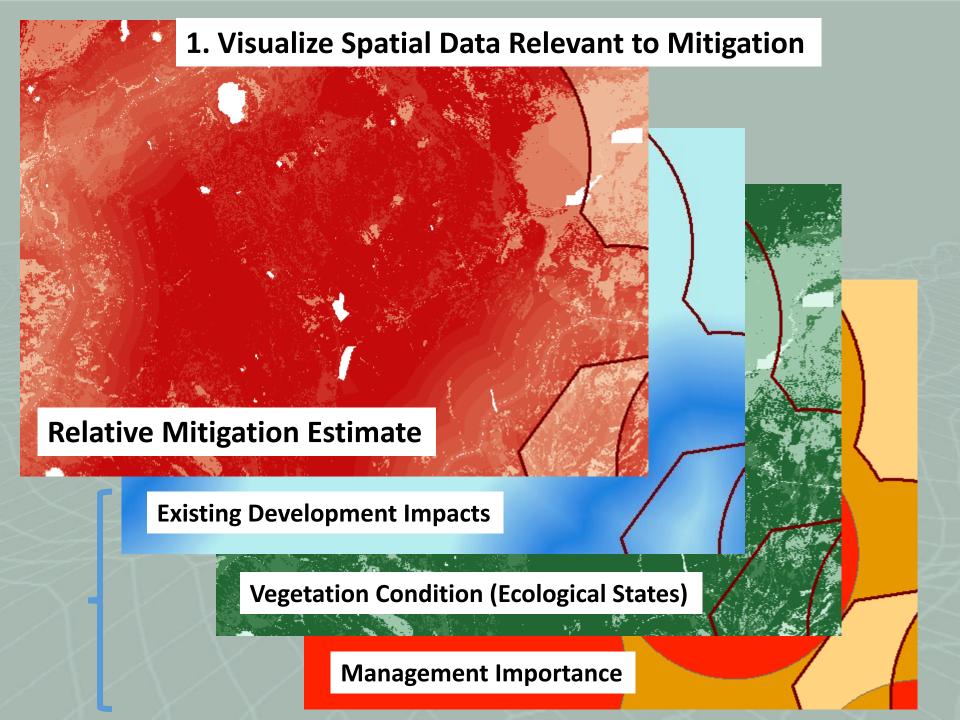


1. Visualize Spatial Data Relevant to Mitigation

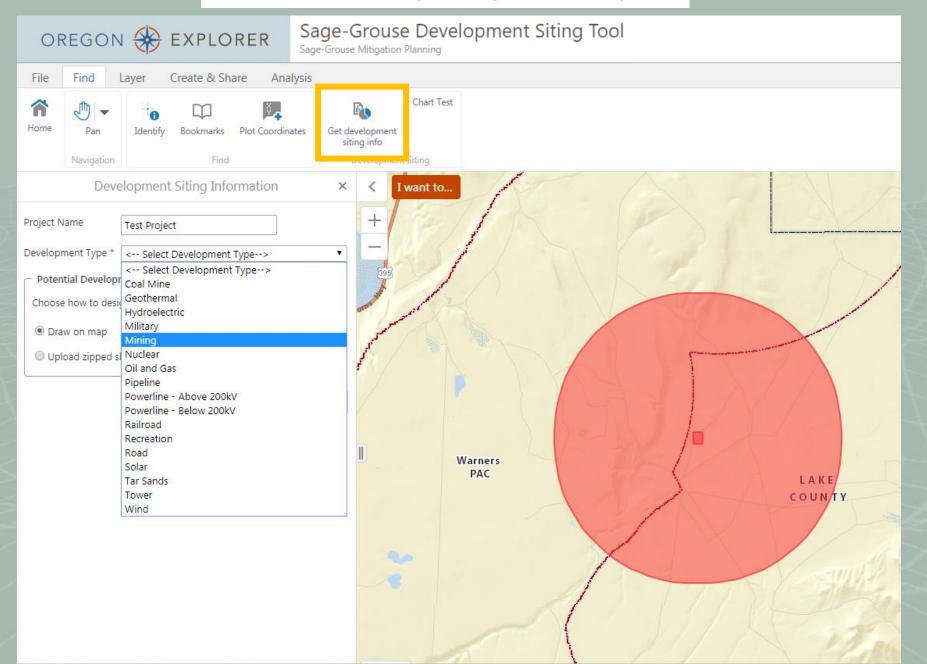


1. Visualize Spatial Data Relevant to Mitigation





2. Generate Project-Specific Report



2. Generate Project-Specific Report

Estimated Mitigation Report

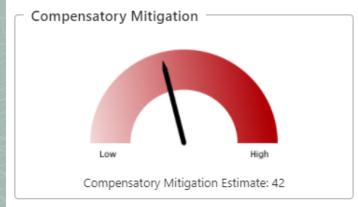
Summary

Project Name: Test1

Development Type: Mining

Full PDF Report

Download Shapefiles



Area

Direct Project Area: 75 Acres Buffered Area: 22,185 Acres

Buffered to 5 km

Non-Habitat in buffered area: 235 Acres

Habitat

Habitat Designations: core habitat **Within 3.1 miles of a Lek?** True

Land management/ownership

, Federal (BLM), Private

Contact Information

County: Crook

Estimated Mitigation Report

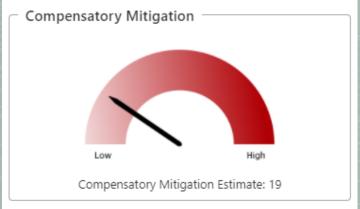
Summary

Project Name: Test2

Development Type: Mining

Full PDF Report

Download Shapefiles



Area

Direct Project Area: 74 Acres Buffered Area: 22,185 Acres

Buffered to 5 km

Non-Habitat in buffered area: 1,338 Acres

Habitat

Habitat Designations: low density habitat, core habitat

Within 3.1 miles of a Lek? False

Land management/ownership

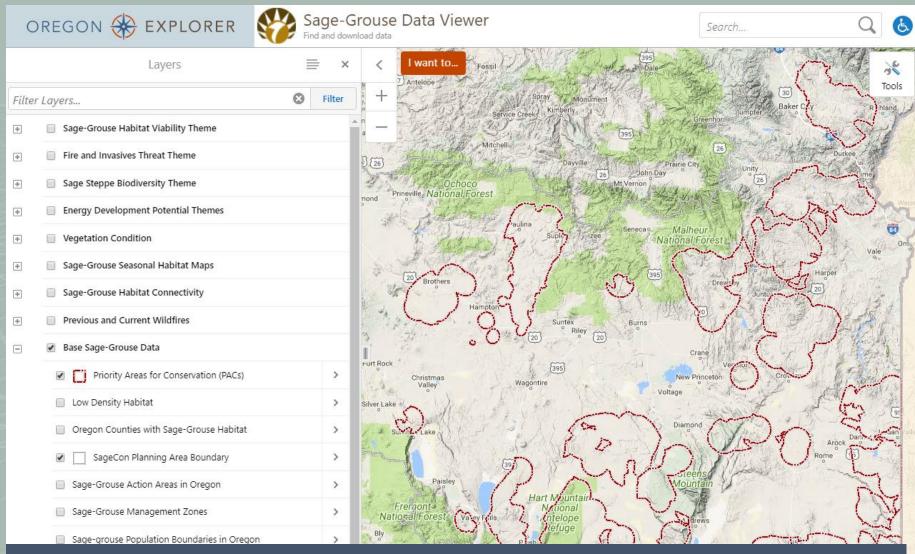
Federal (BLM), Federal (USFS), State Government, Private

Contact Information

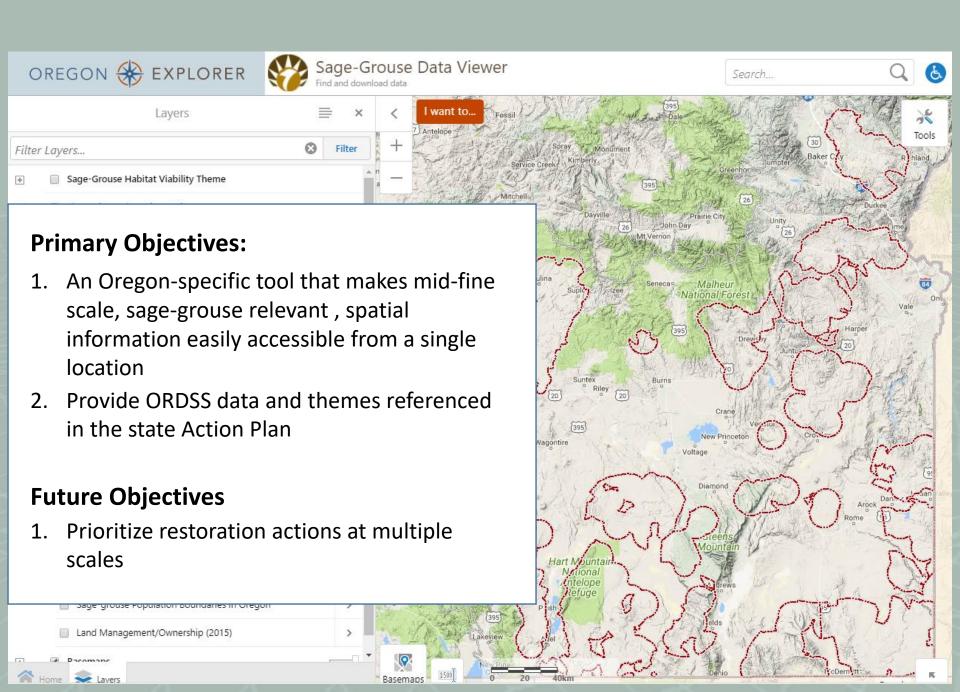
County: Crook

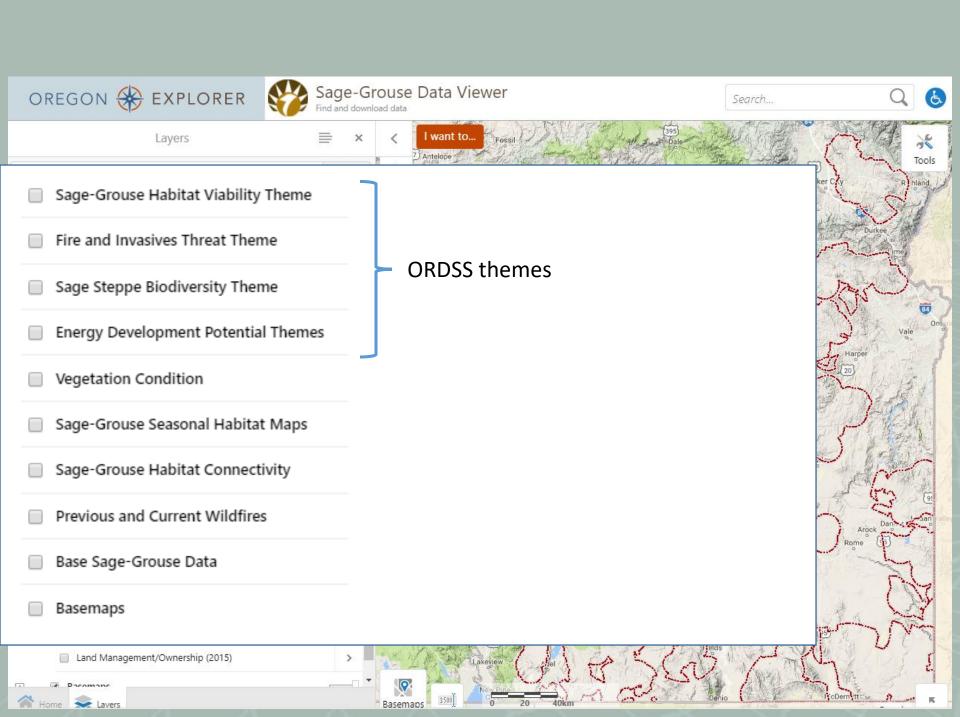
Sage-Grouse Data Viewer and Restoration Tool

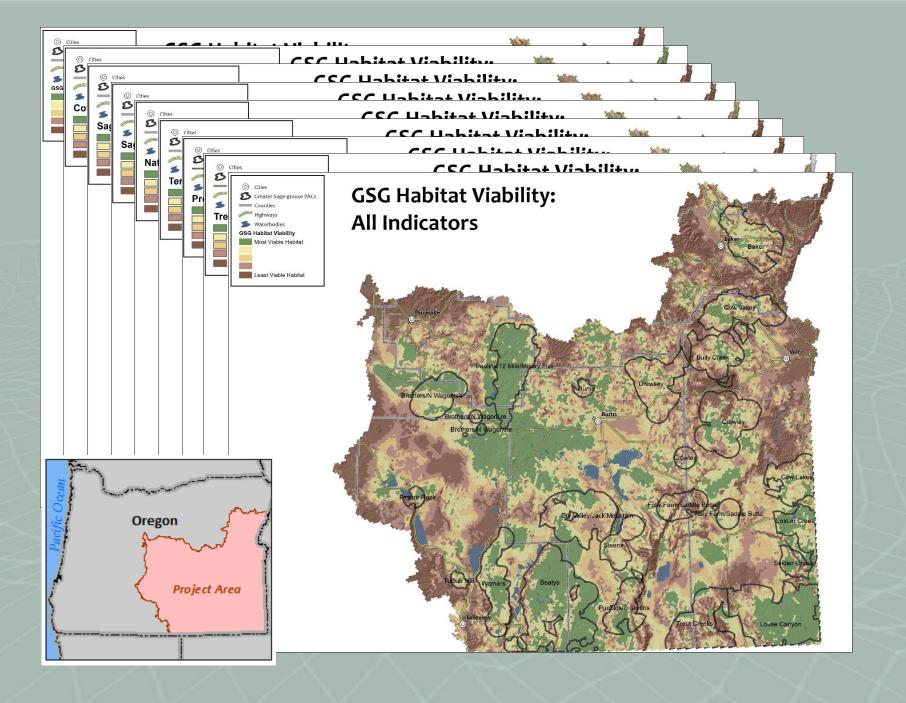
Web tool to view and explore sage-grouse data in Oregon
Upcoming web tool to aid in restoration planning



http://tools.oregonexplorer.info/OE_HtmlViewer/index.html?viewer=sagegrouse



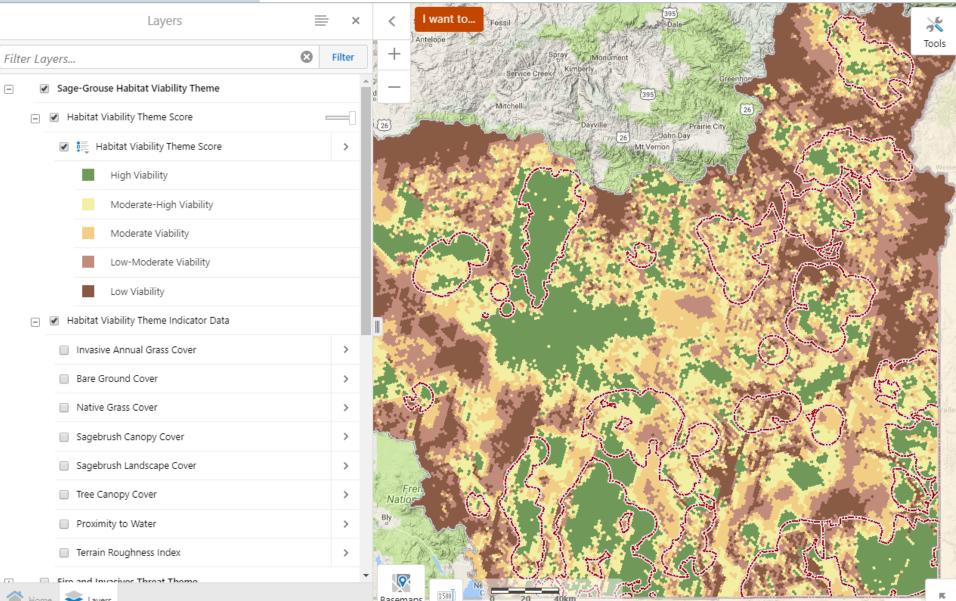








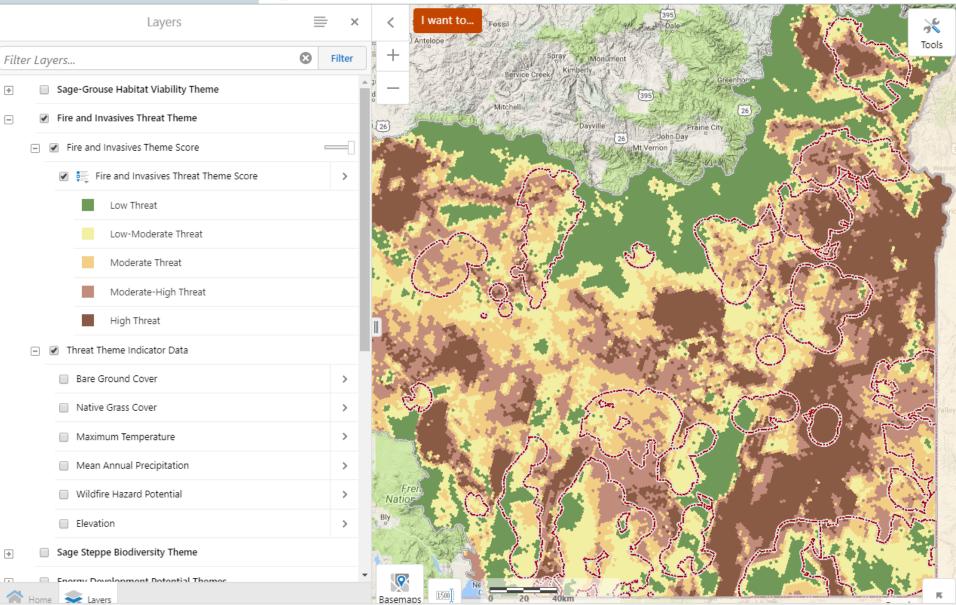






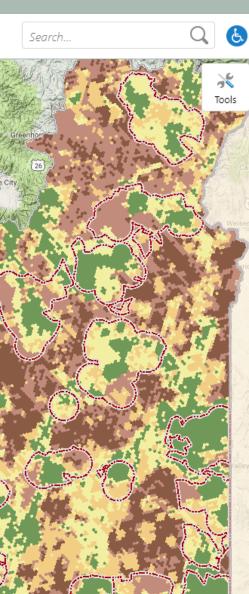


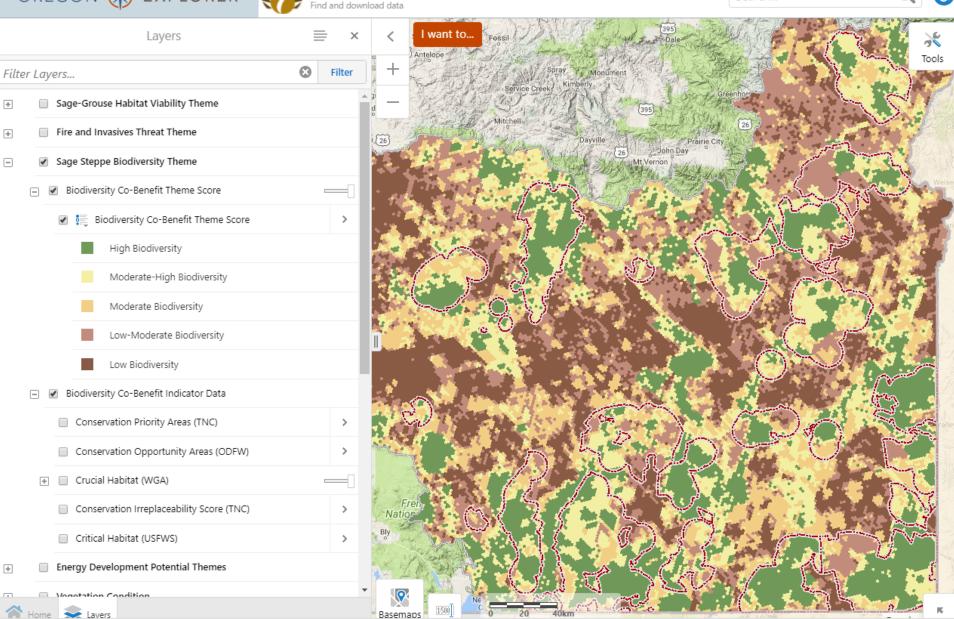


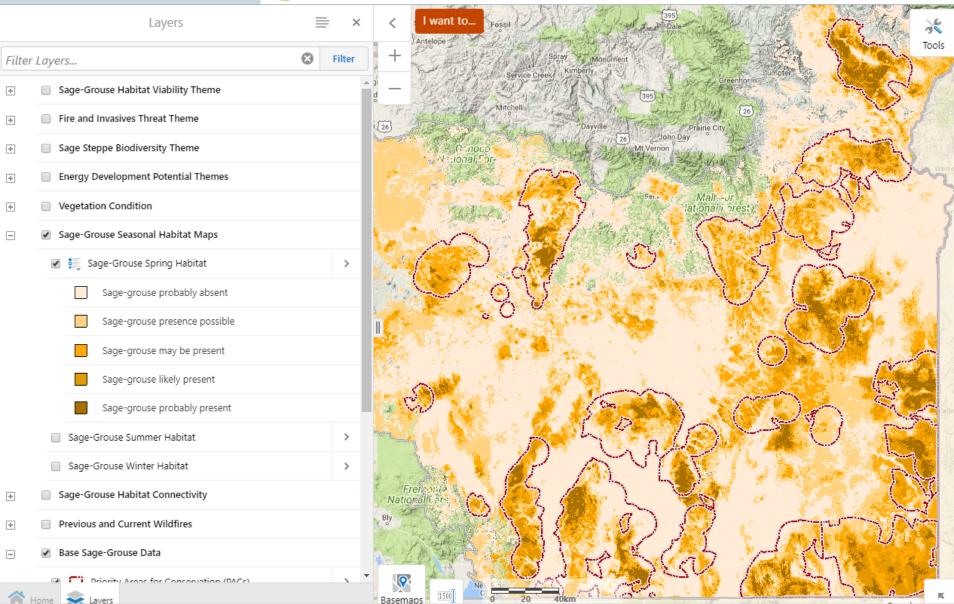


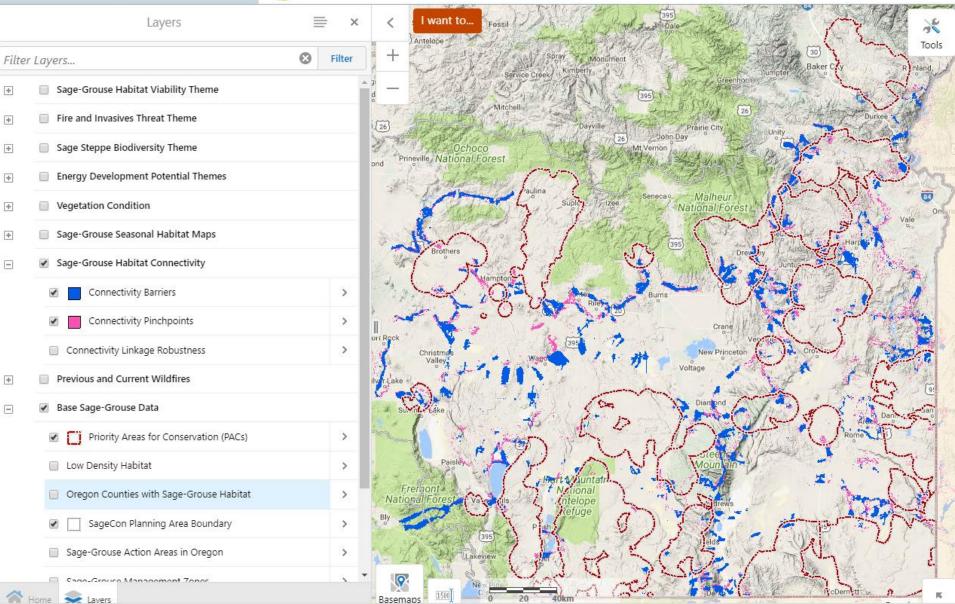






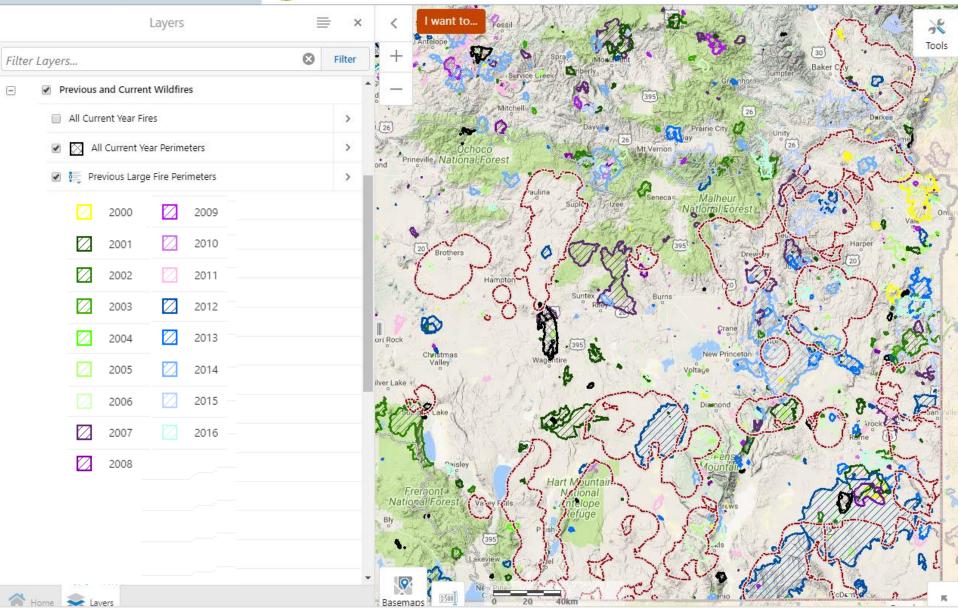






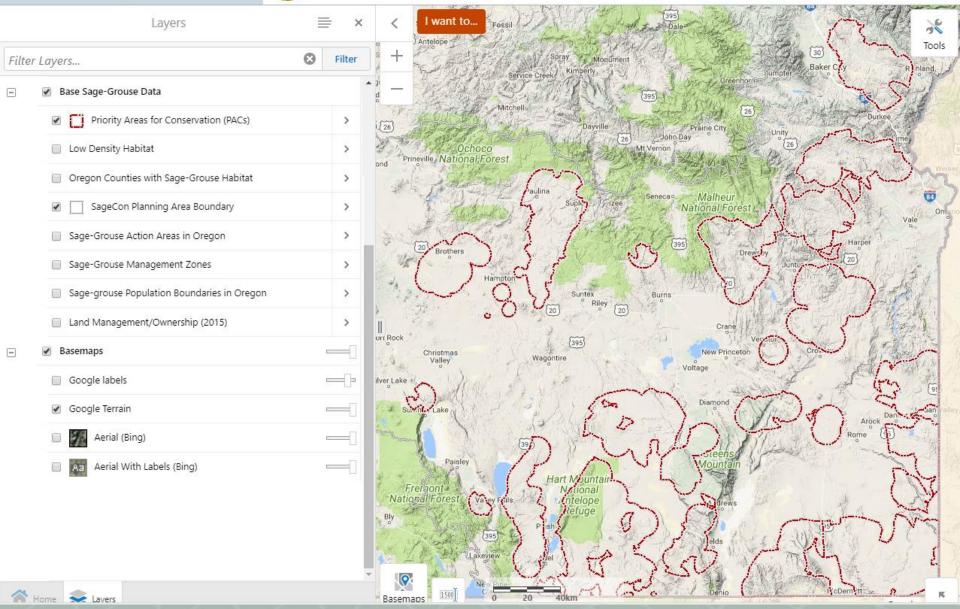


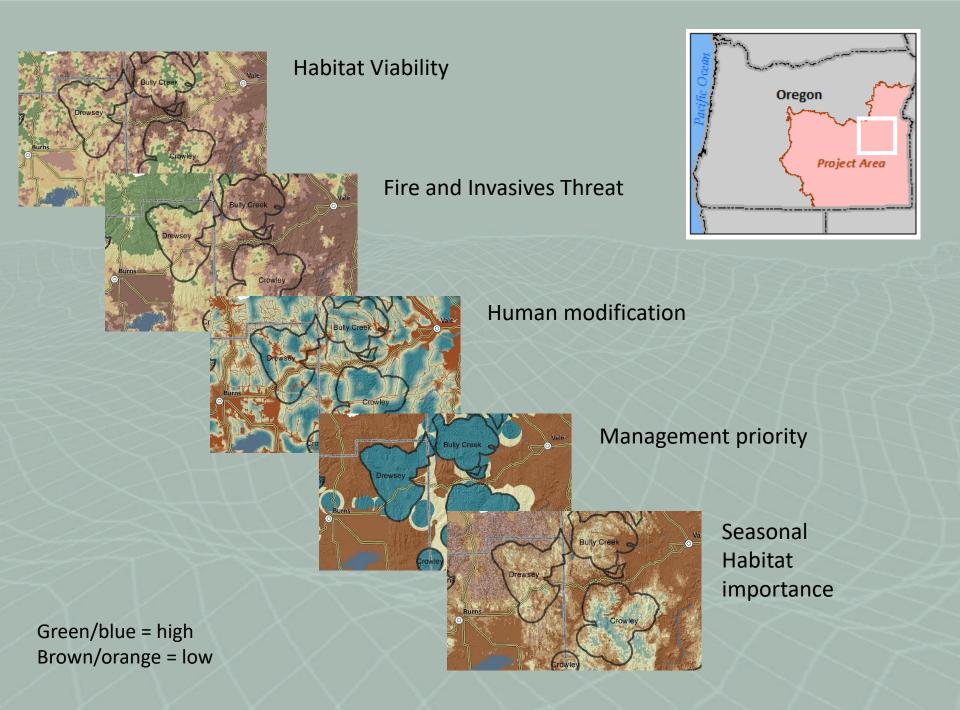












Potential Applications

• Questions:

- Where to target treatments or mitigation credit sites?
- What areas are most important to sage-grouse?
- What areas are at risk?
- What areas are already heavily disturbed or modified?

Examples:

- Where is habitat viability, management priority, and seasonal habitat importance high, and juniper is in phase I?
 - → Cut juniper
 - Also on private lands?
 - → Prioritize funding assistance for landowner
- Where is habitat viability, management priority, and seasonal habitat importance high, and fire and invasives threat is also high?
 - → Install fuel breaks
- Where is existing human modification high and habitat viability, management priority, and seasonal habitat importance low
 - → Prioritize for development

SageCon and Other Tools

- SageCon Tools are specific to Oregon and geared toward sage-grouse, but...
- Potential connections to other tools we are discussing today
 - Conservation Efforts Database find out where recent sagebrush treatments have occurred for landscape-scale planning
 - Land Treatment Planning Tool find out more information about historical treatments in similar areas to maximize the chances of success
 - EEMS users build customized queries for restoration planning
 - Seedlot Selection Tool once you've identified a site for restoration, get help with seed selection

Explore the Oregon SageCon Tools here:

http://oregonexplorer.info/content/sagecon-decision-support-web-tools-and-maps?topic=203

Sage-Grouse Data Viewer direct link:

http://tools.oregonexplorer.info/OE_HtmlViewer/index.html?viewer=sagegrouse

Contact: Megan Creutzburg (megan.creutzburg@oregonstate.edu)