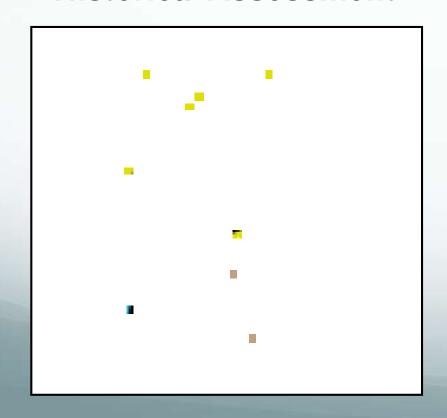


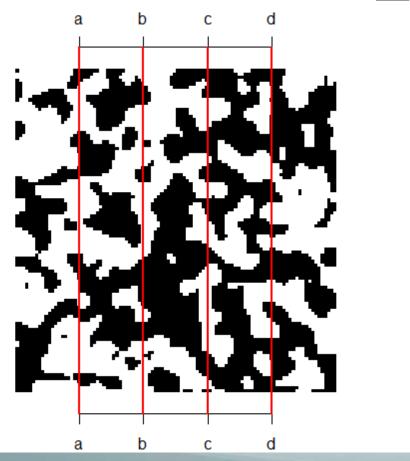
# Historical Landscape Assessment

## **Historical Assessment**





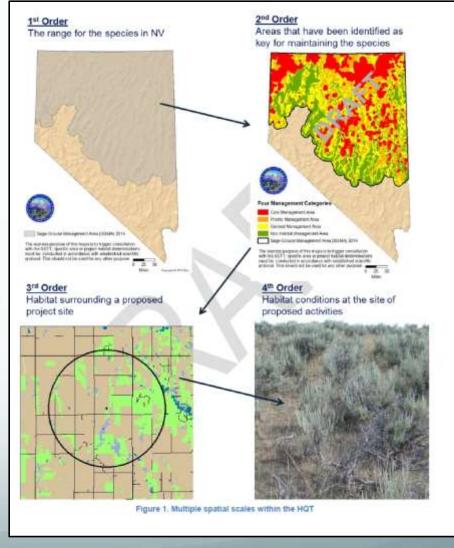
# Costs, Accuracy, Precision, and Extrapolation



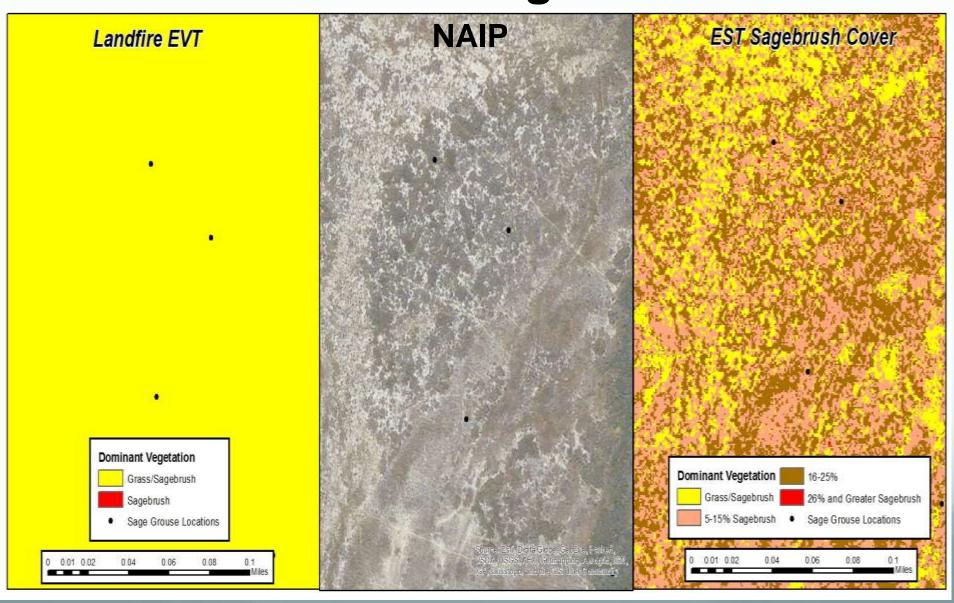
	a	b	C	d	av
WHITE	69	68	59	43	60
BLAC					
K	31	32	41	57	40

## HABITAT ASSESSMENT FRAMEWORK





# Comparing Remotely-Sensed Imagery Technologies



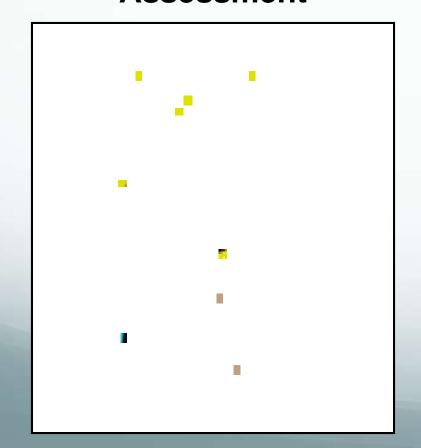
## How we measure

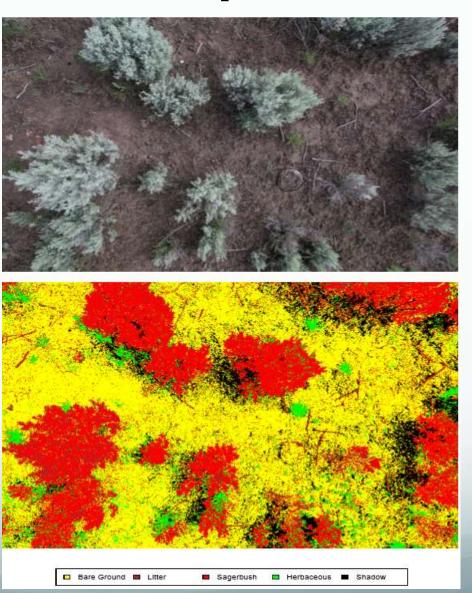
- Functional Attributes
- Integration HR Photography, GPS and Satellites
- Smell test

# Field Sampling

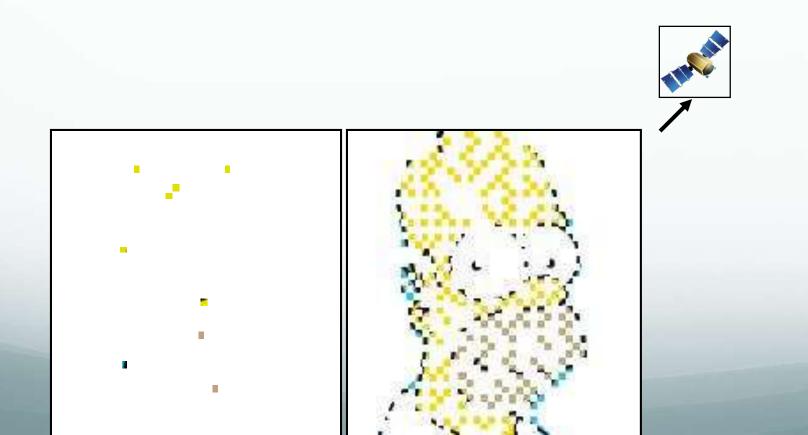


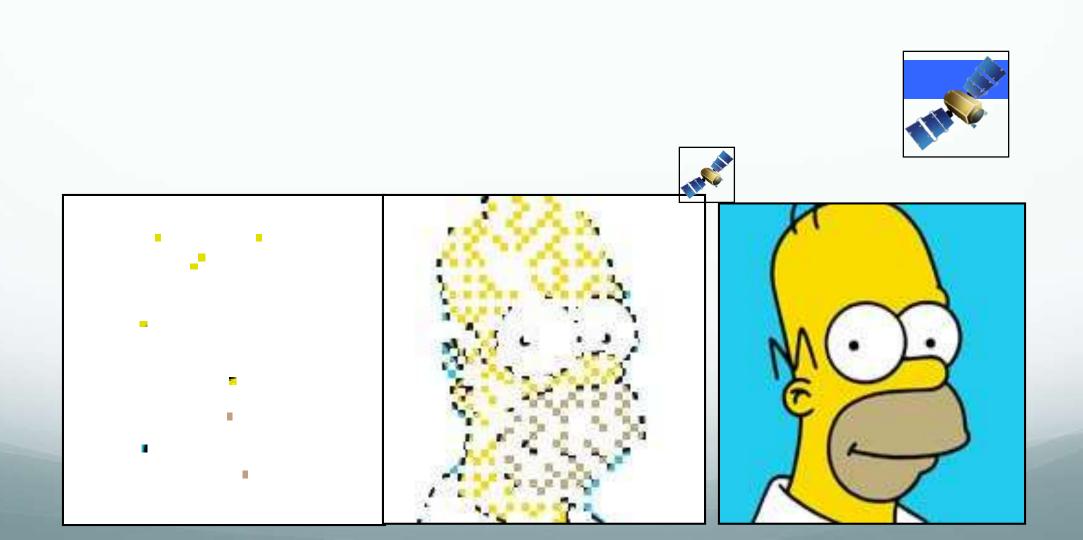
# Historical Landscape Assessment

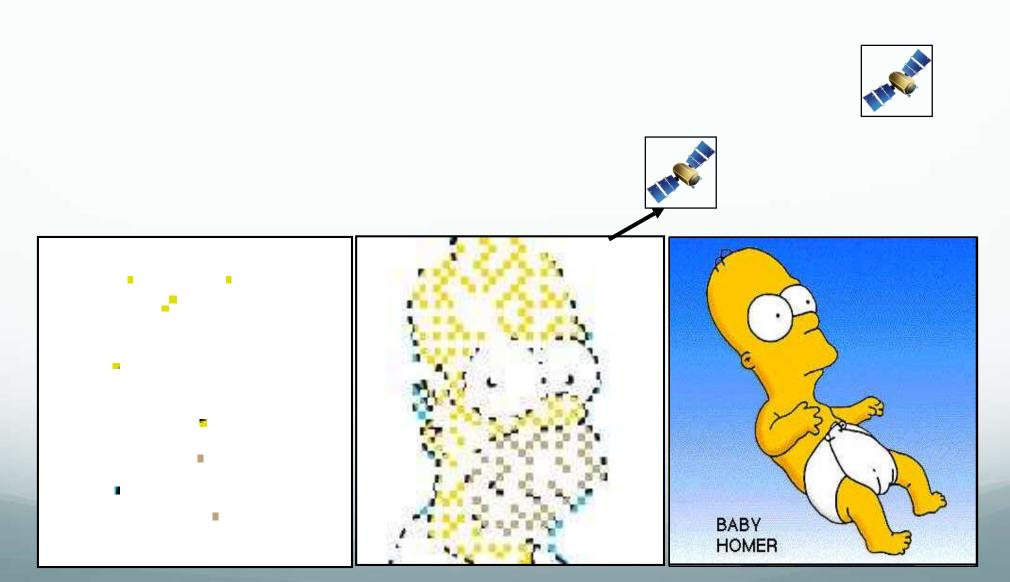












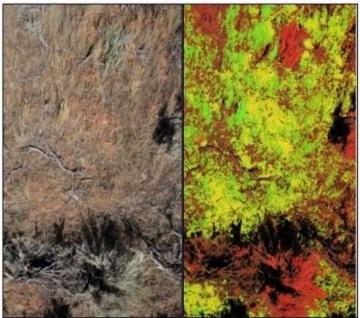
# Fine Scale (2mm)

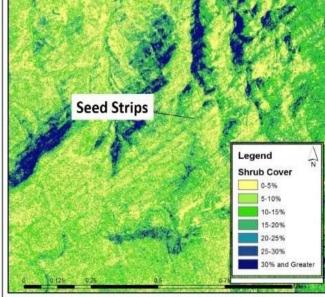
### Landscape Scale (1m)



## Coarse (30m) & Temporal (30 yr) Scale







• Trained by High Resolution Images

Continuous % Cover Maps

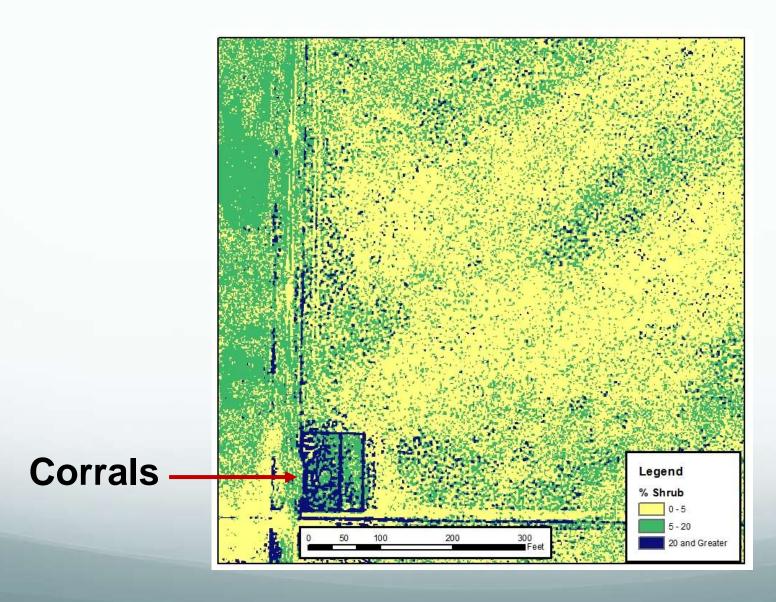
**Current Sagebrush** 



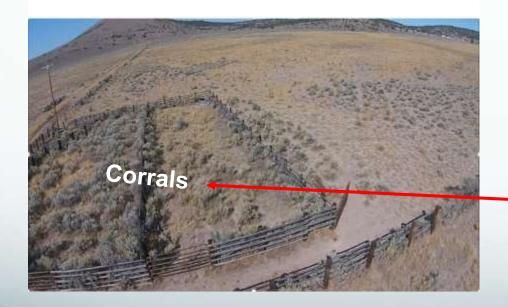
- 6 \* 7 Meter Extent
- 18 Million Points of Data/Picture
- · Classified into Ground Cover
- 1 Sample/4000 Acres

· Temporal Scale 1984-2014

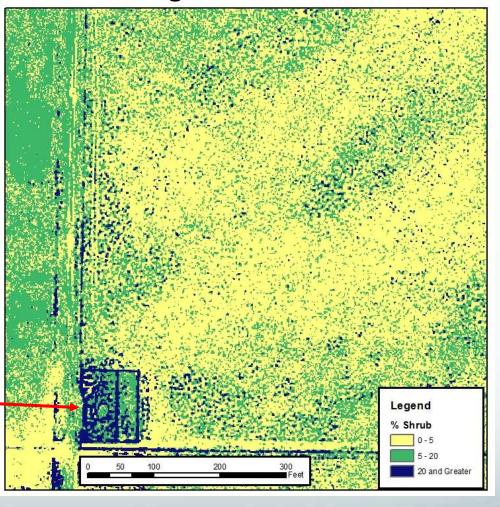
# Predicted Sagebrush Cover Using ORC's EST



# Visually Comparison of Aerial Image vs Predicted Sagebrush Cover



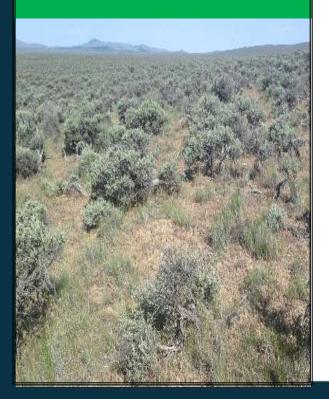
## **Predicted Sagebrush Cover from EST**



# Sagebrush Ecological States

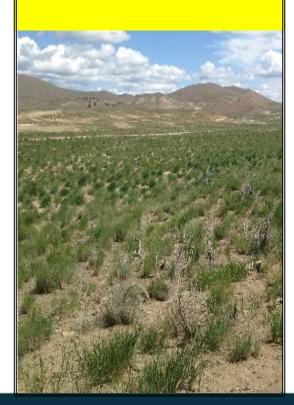
A

Sagebrush - Perennial Herbaceous
State



В

**Perennial Herbaceous State** 



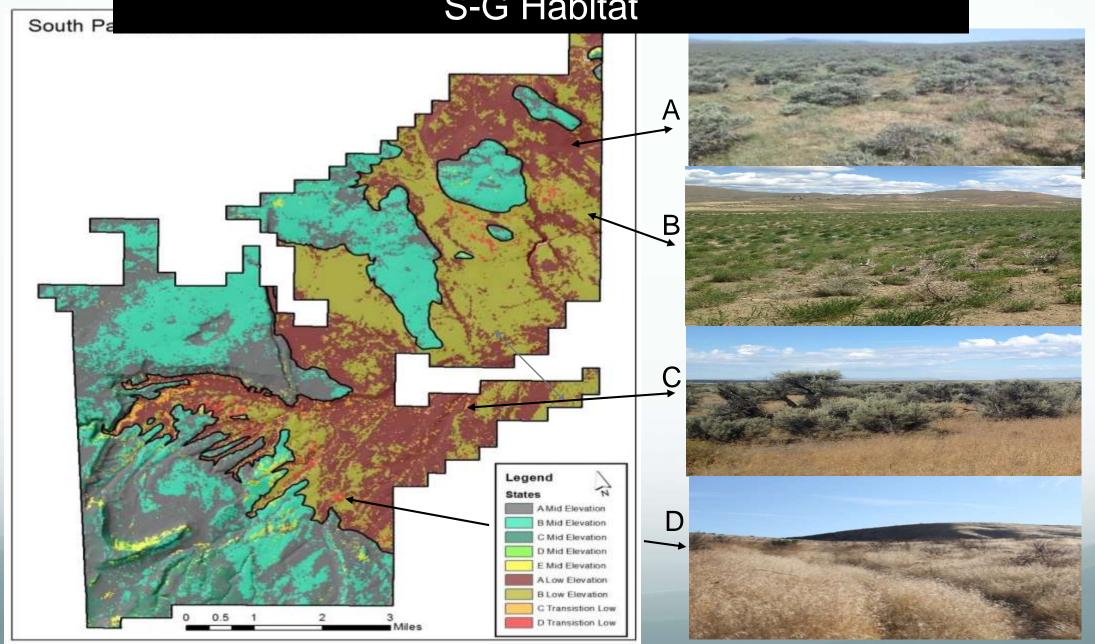
Degraded Sagebrush
State



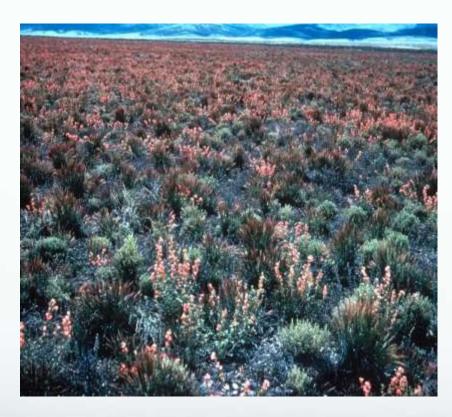
**Exotic Annual Grass State** 



# Spatially Explicit Mapping of Ecological States of S-G Habitat



# Historical Methods Can't Measure Across Space or Time





1964 1966

# Adequate and Trusted Scale



# Thank You/Questions





