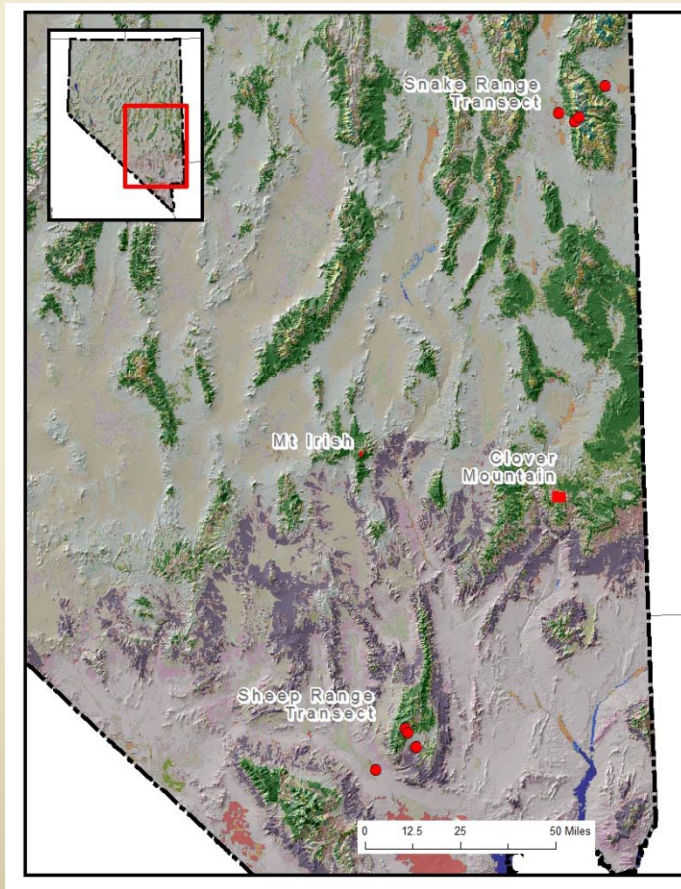


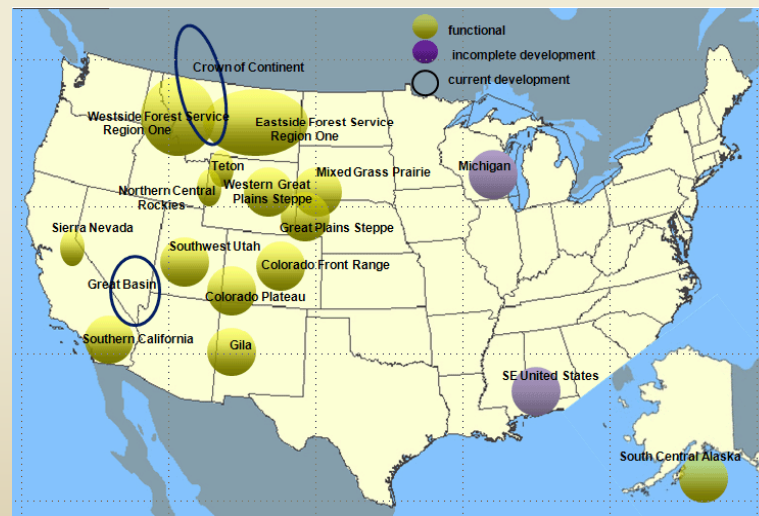
*“Applying forest simulation modeling to test the impact of climatic change on selected ecosystems at two instrumented transects in Nevada”*



1. What is the relationship between climate change and disturbances (such as wildfire) over mountain landscapes?
2. What level of complexity and resolution is needed for predicting interaction among species invasion, wildfire regime, and climate?

## SIMulating Pattern and Processes at Landscape scaLEs (SIMPPLLE)

“A spatially explicit, landscape level, dynamic simulation system that is designed as a management tool to facilitate the use of landscape ecology concepts in designing and evaluating land management alternatives for a range of planning scales.”



Map courtesy of USFS RMRS

### Input data

- LANDFIRE data – Created using a predictive model, field data and LANDSAT data.
- National Elevation Dataset Digital Elevation Model (NED DEM)
- Disturbance logic based on expert knowledge

### Validation data

- Some fire history data from two sites; Mt Irish and Clover Mountain, and hopefully others.



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