Building capacity among ranchers to promote climate change adaptation in the west

Hunt Lauren¹ and Hillis Vicken¹

¹Boise State University

November 16, 2022

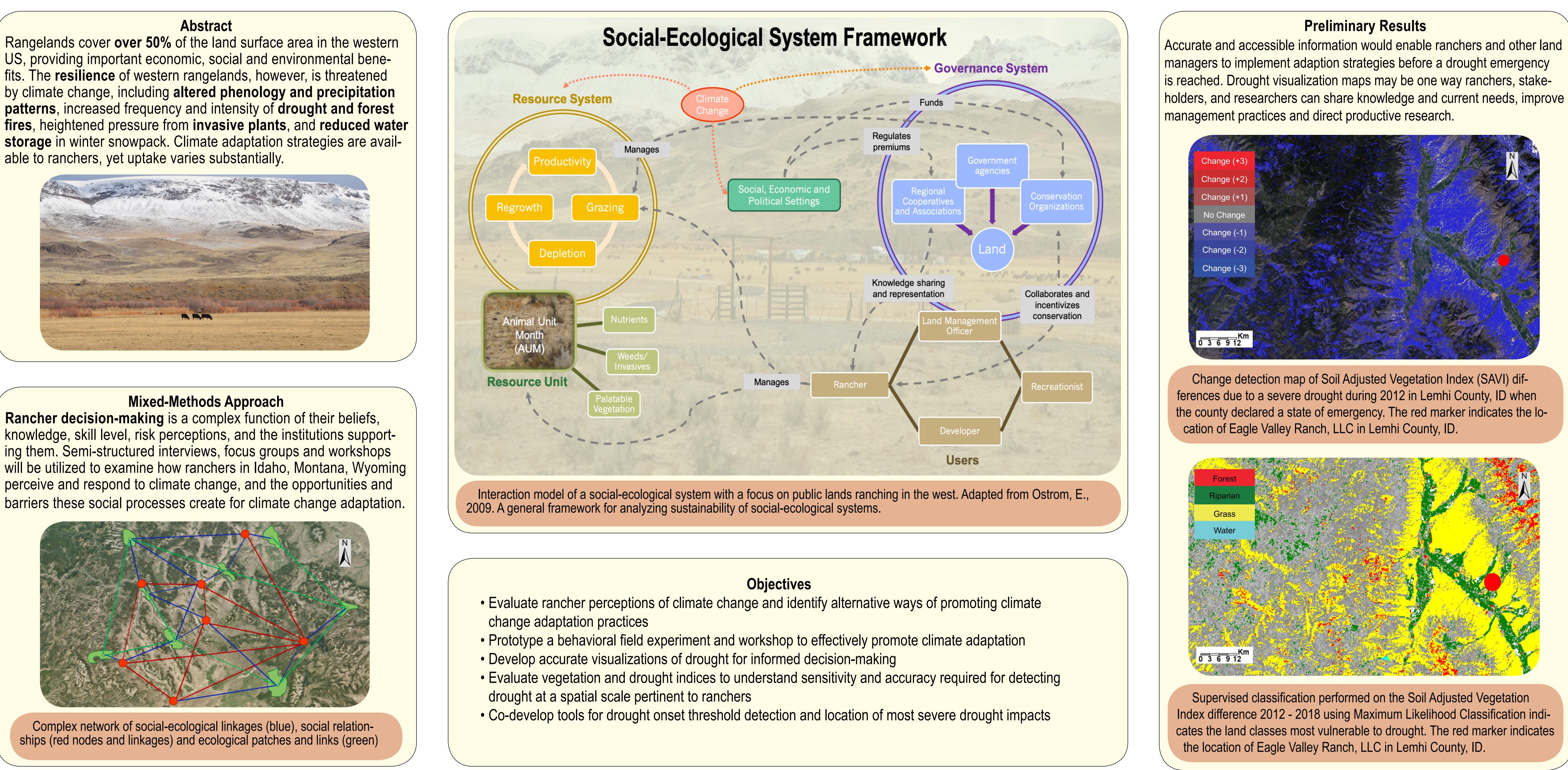
Abstract

Rangelands cover over 50% of the land surface area in the western US, providing important economic, social and environmental benefits. The resilience of western rangelands, however, is threatened by climate change, including altered phenology and precipitation patterns, increased frequency and intensity of drought and forest fires, heightened pressure from invasive plants, and reduced water storage in winter snowpack. Climate adaptation strategies are available to ranchers, yet uptake varies substantially. Rancher decision-making is a complex function of their beliefs, knowledge, skill level, risk perceptions, and the institutions supporting them. Semi-structured interviews, focus groups and workshops will be utilized to examine how ranchers in Idaho, Montana, Wyoming perceive and respond to climate change, and the opportunities and barriers these social processes create for climate change adaptation.

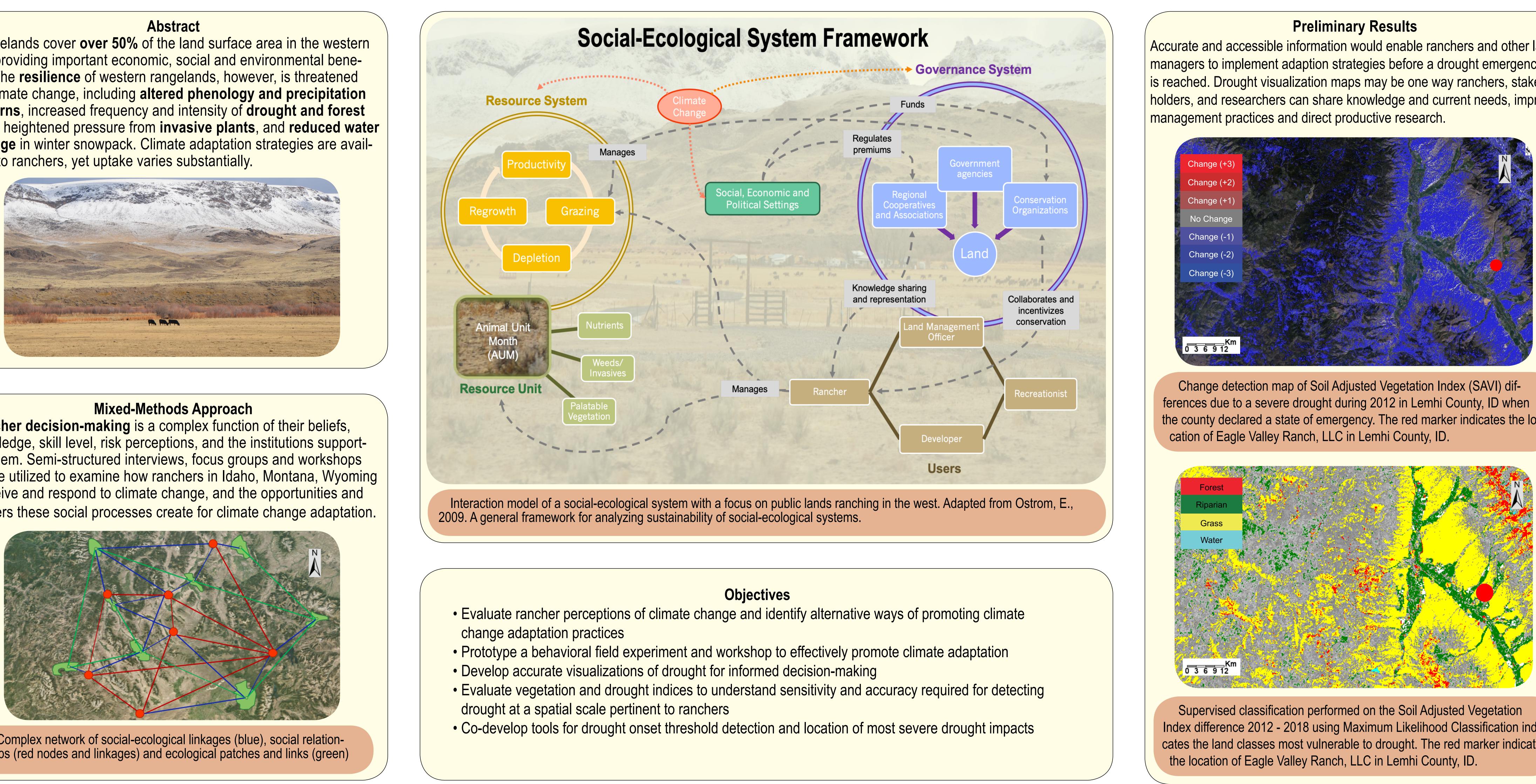
Building capacity among ranchers to promote climate change adaptation in the west Lauren Hunt^{*}, Vicken Hillis Ecology, Evolution, and Behavior, Human-Environment Systems, Boise State University

*Author correspondence: laurenhunt@u.boisestate.edu

Rangelands cover over 50% of the land surface area in the western US, providing important economic, social and environmental benefits. The **resilience** of western rangelands, however, is threatened by climate change, including altered phenology and precipitation patterns, increased frequency and intensity of drought and forest able to ranchers, yet uptake varies substantially.



Rancher decision-making is a complex function of their beliefs, knowledge, skill level, risk perceptions, and the institutions supporting them. Semi-structured interviews, focus groups and workshops perceive and respond to climate change, and the opportunities and



ships (red nodes and linkages) and ecological patches and links (green)

