

The Value of Preserving and Restoring Migratory Bird Habitat to residents of the Pacific Flyway

A Mixed Methods
Study

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Funding

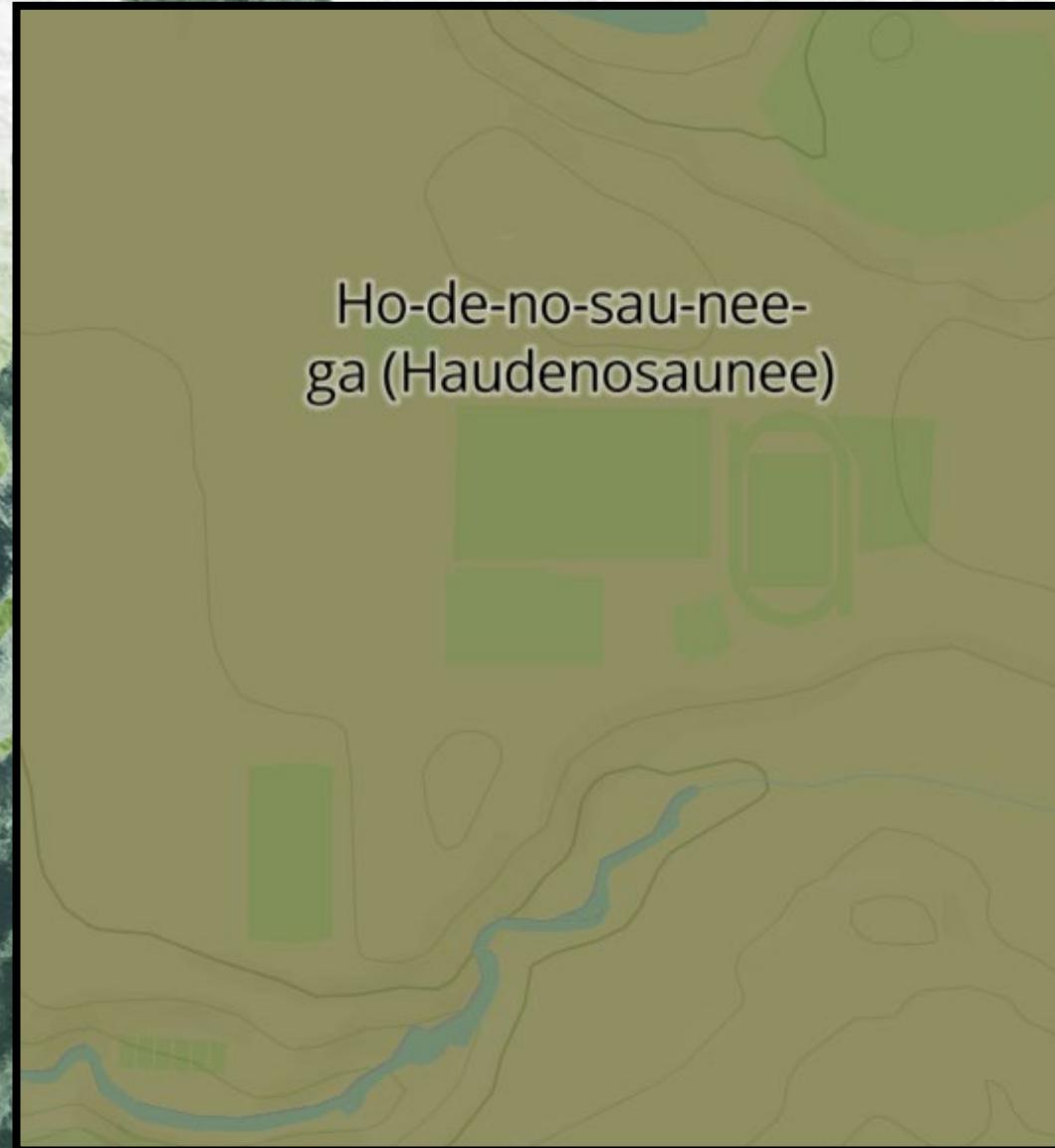


**Cornell
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Center for
Sustainability**

Land Acknowledgement

This research was conducted by researchers at Cornell University in Washington, Oregon, and California.

We acknowledge the painful past of genocide, and forced dispossession by the United States government and people, much of which formed our colonial perspective on conservation. We honor the ongoing connection of Indigenous Peoples to the lands and waters of Turtle Island, and their expertise in conservation spaces.



Native Land Digital
<https://native-land.ca/>



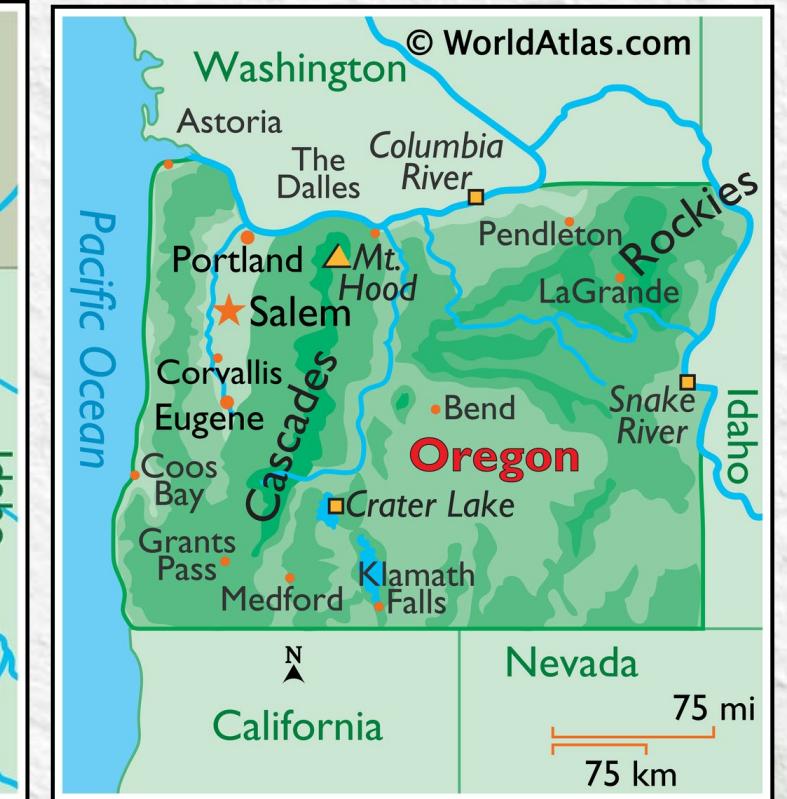
FOREST SERVICE QUESTION

What is the
value of conserving land
along the Pacific Flyway
(in the United States)
to help increase
migratory bird biodiversity
and related ecosystem
services ?



Geographical Region

Background - Grounding in the Land



Components of the Whole

RESEARCH FOCUS GROUP

PARTICIPANTS NEEDED

WHAT:

- 1-HOUR FOCUS GROUP
- FRI OCT. 4TH FROM 5:30-6:30PM @ MAXIE L PARKS COMMUNITY CENTER
- PROVIDE FEEDBACK ON ENVIRONMENTAL POLICY SURVEY FOR RESEARCH PURPOSES
- 10 PEOPLE NEEDED

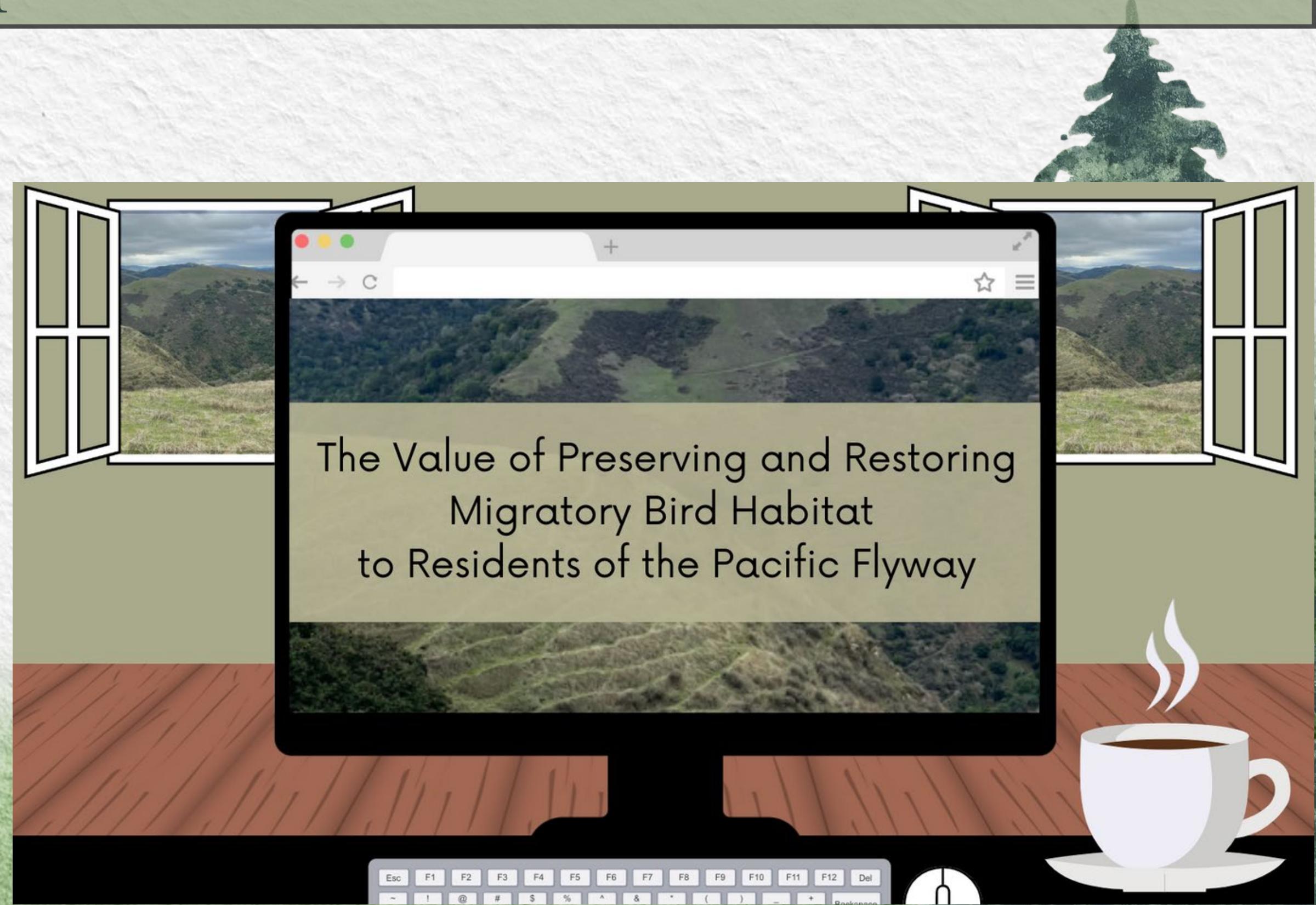
To Sign-Up Now:
Scan the QR Code or email/text)

mb2572@cornell.edu
(518)709-3389

No environmental policy experience/background knowledge needed. Must be 18+ to participate and a resident of Fresno.

SCAN ME

A QR code is located in the bottom right corner of the graphic.



FOCUS GROUPS

MOTIVATION & RESEARCH QUESTION

Research Question

What is the **value of conserving land** along the Pacific Flyway (in the United States) to help increase migratory bird **biodiversity** and related **ecosystem services** ?

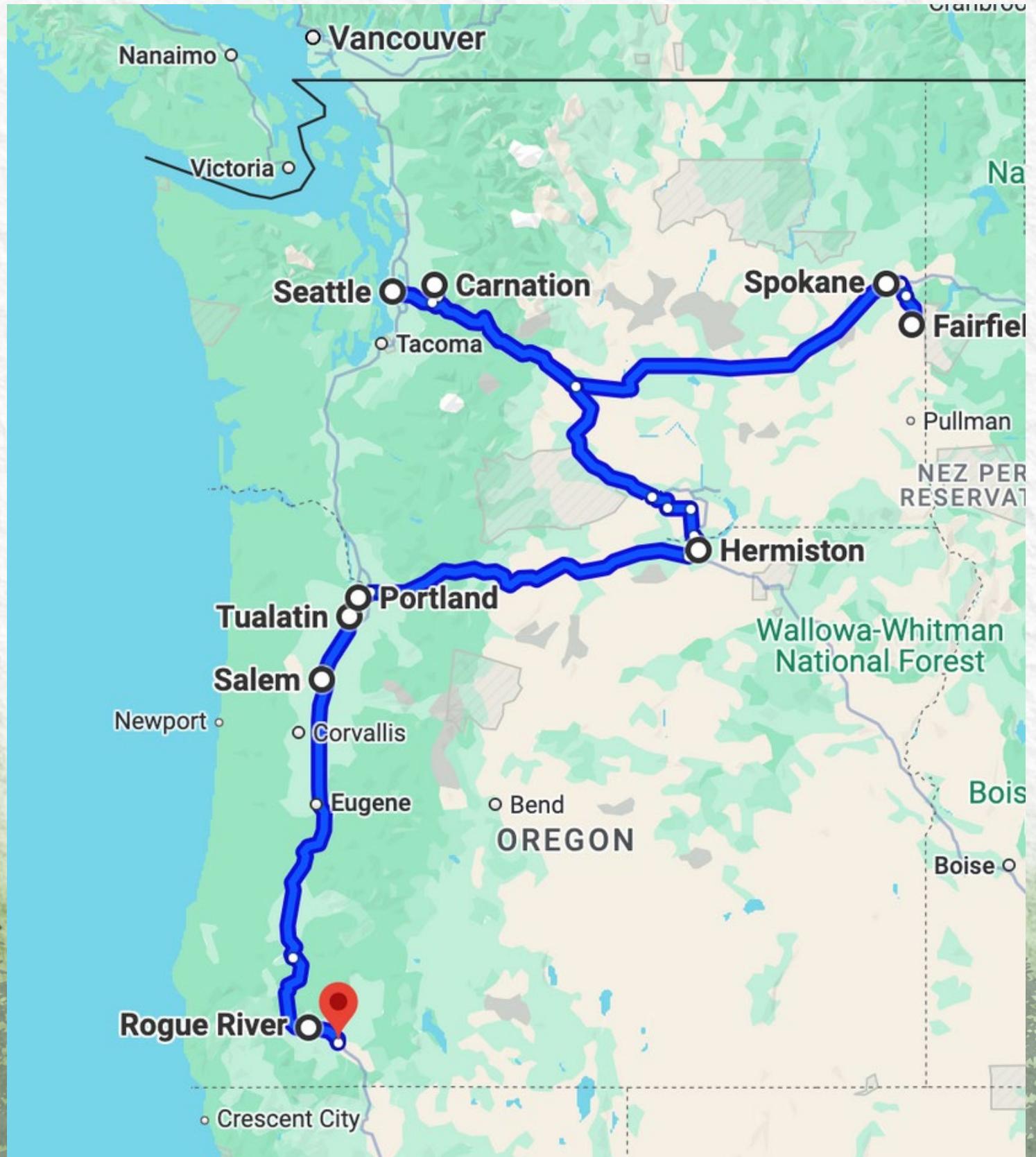
Key Concept

To gather people's stories about their relationships with and on the land and their sense of place.



Location

Focus Groups



Selection Griteria

Focus Groups

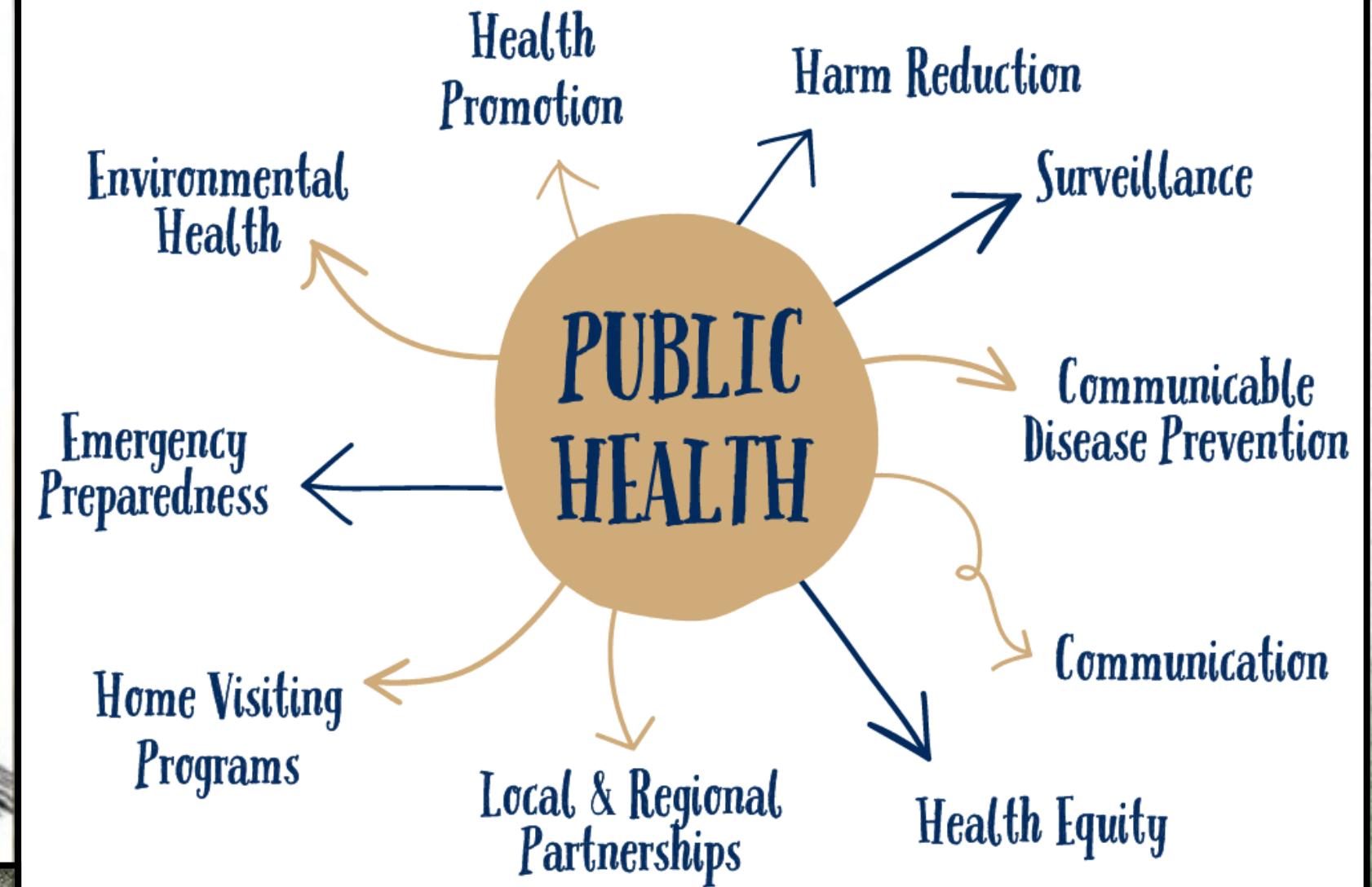
Locations	Host Site
WA, OR, Northern CA, Southern CA 4/area: Two cities, two municipalities <2500	<ul style="list-style-type: none">◦ Accessible◦ Centrally located◦ Trusted space <ul style="list-style-type: none">• Conditions when multiple were available:<ul style="list-style-type: none">◦ Free, or has free options◦ Activities for kids and seniors◦ Offers a summer camp◦ Not under construction◦ Has an indoor space◦ Has a gym and weight room, as well as a community room◦ Tried not to pick parks/places that were specific to just outdoor recreation◦ Tried not to pick community centers that had no recreation spaces• When no community center was available, I selected a library or municipal hall
Sampling	
Purposive sampling: Location, specific host space, 18+, US citizen, eligible to vote Convenience sampling: Participants sign up Advertised via flyer	
Dual Purpose	
1.Feedback on the survey questionnaire 2.Thematic questions surrounding sense of place, relationship to management agencies, and environmental priorities	

Findings

ECO



EGO

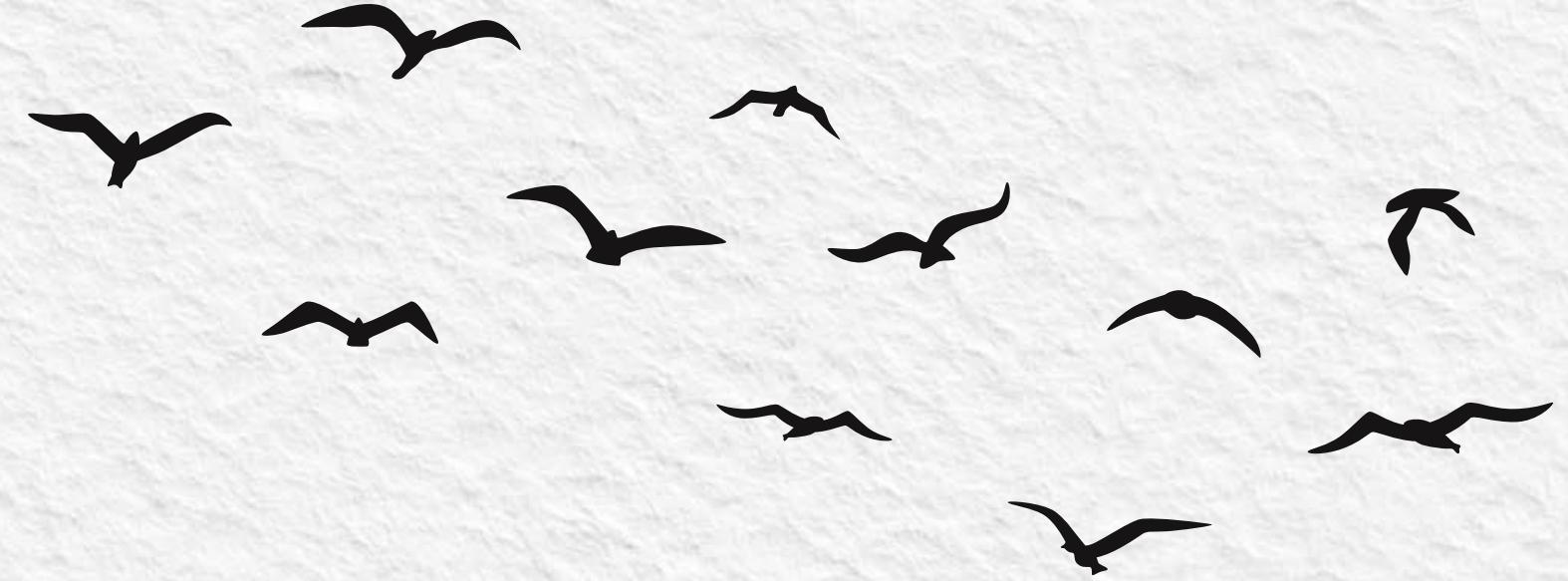
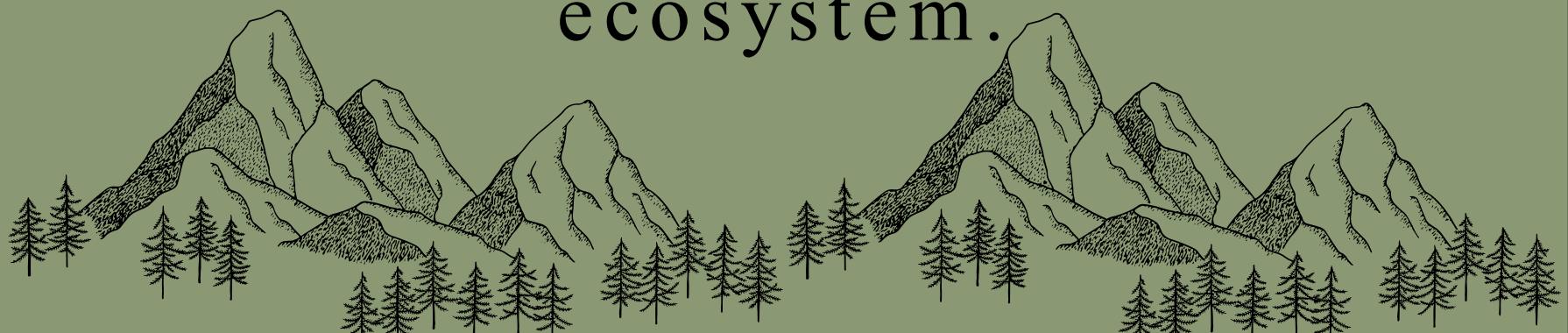


Focus Group Results

Main Takeaway

On the whole, people view the environment as part of their home.

They resent limitations to their access (lack in cities, limits on outside of), and feel that current approaches to conservation remove humans from the ecosystem.



“The word ecology is derived from the Greek ‘oikos,’ the word for home.”

-Robin Wall Kimmerer

SURVEY MOTIVATION & RESEARCH QUESTION

Research Question

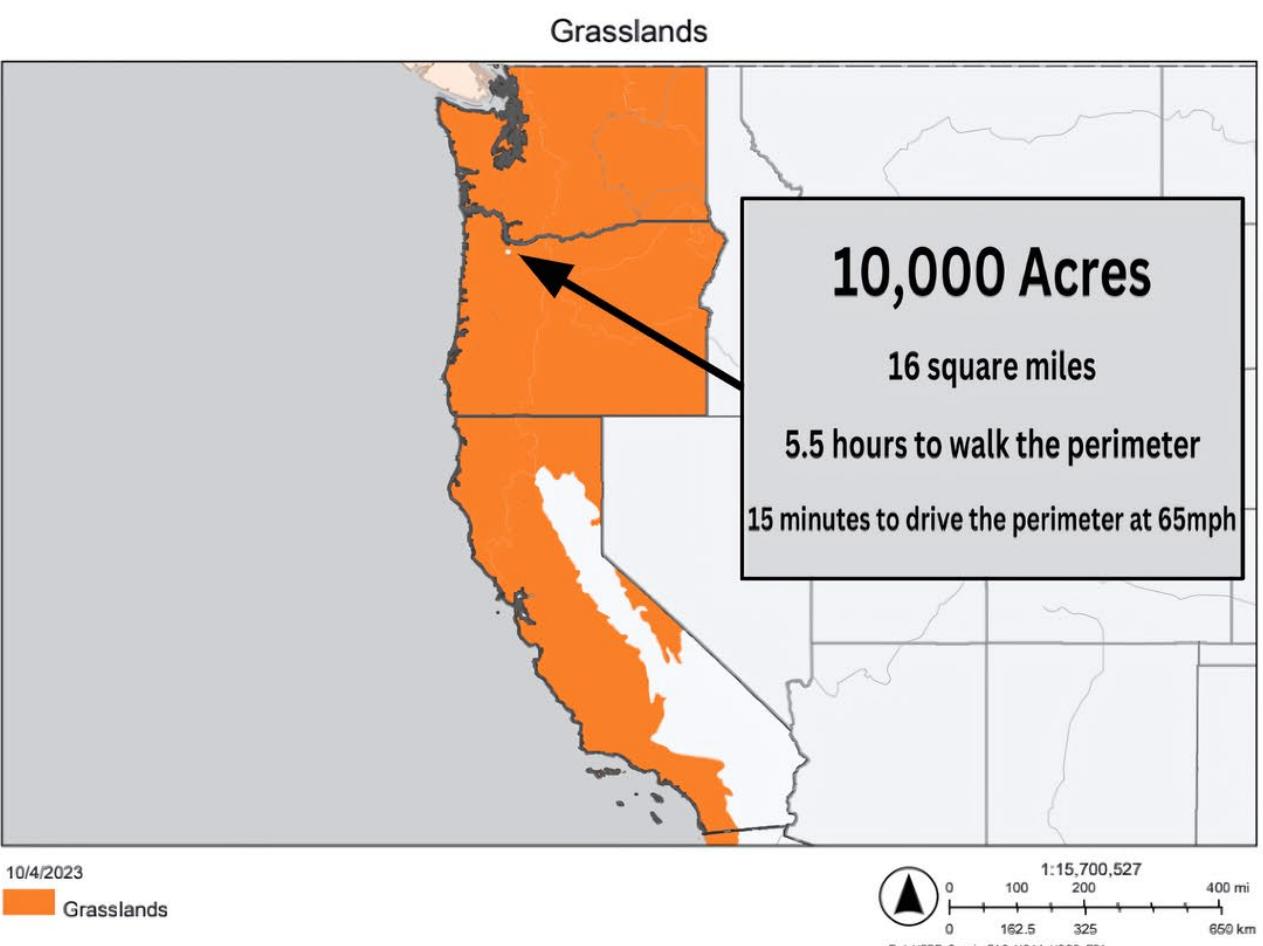
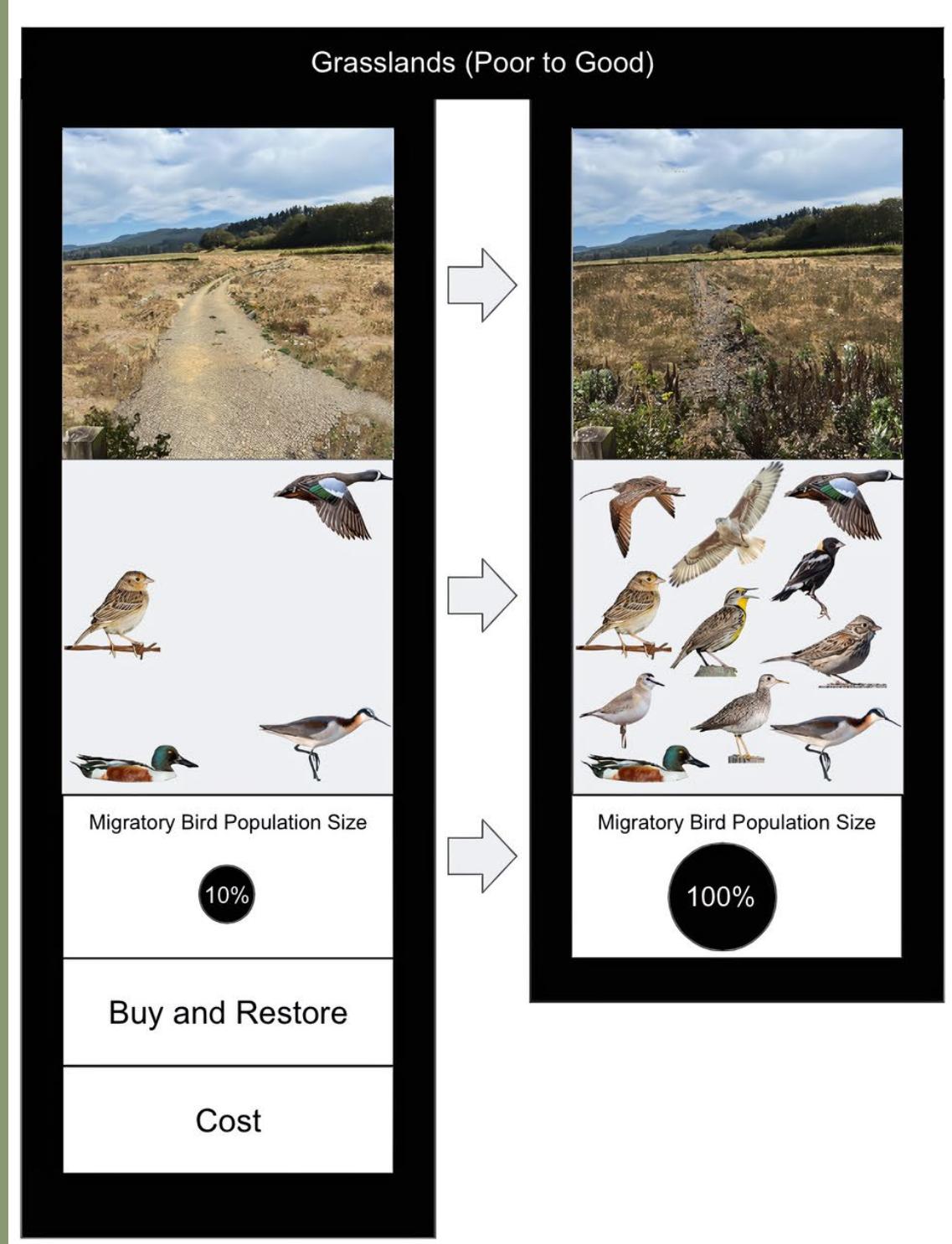
What is the **value** of conserving land along the Pacific Flyway (in the United States) to help increase migratory bird **biodiversity** and related **ecosystem services** ?

Key Concept

To present **trade -offs** between different **habitat conservation options**. These decisions will impact **habitat management**, **migratory bird species**, and **ecosystem services**.

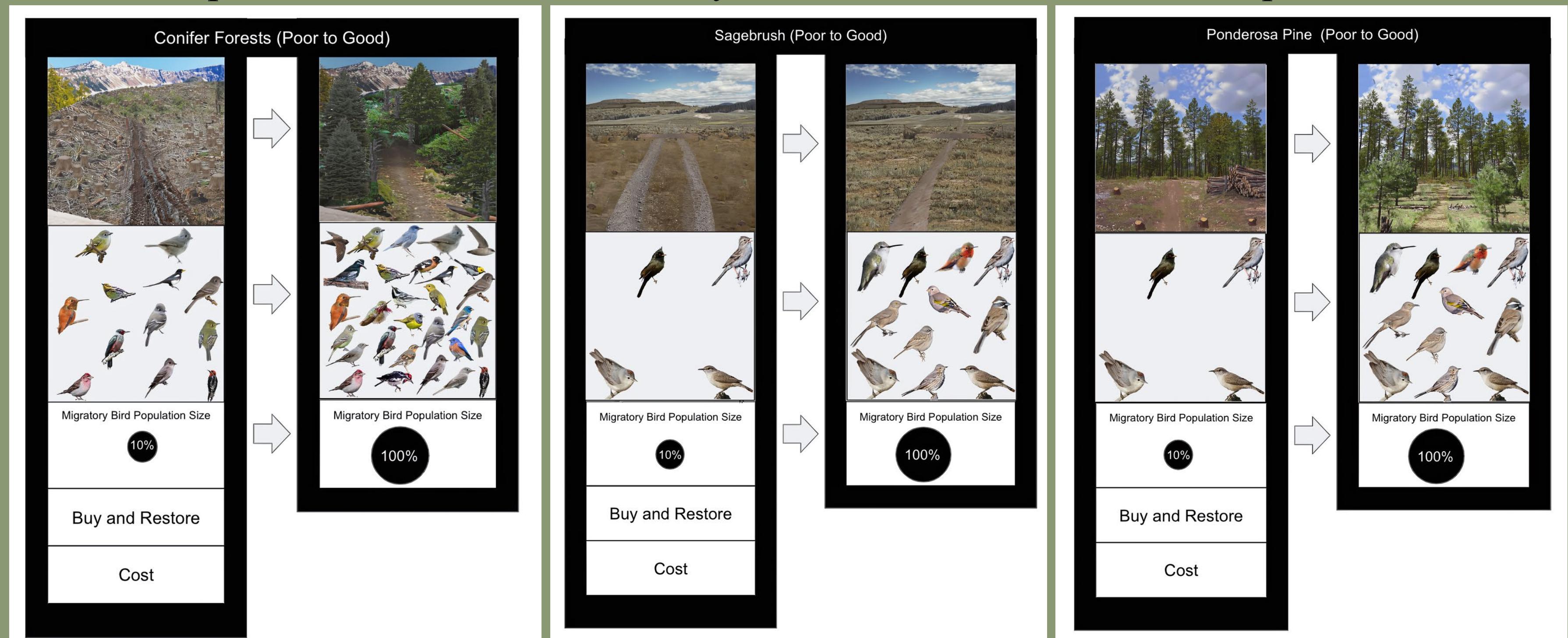
The Good

- 6 Habitat Types
 - Conifer Forests
 - Ponderosa Pine Forests
 - Oak and Prairie
 - Sagebrush
 - Grasslands
 - Coastal Wetlands
- Biodiversity
 - Species richness
 - Bird abundance
- Quality
 - Poor
 - Good
- Size
- Location
 - Bird Conservation Regions



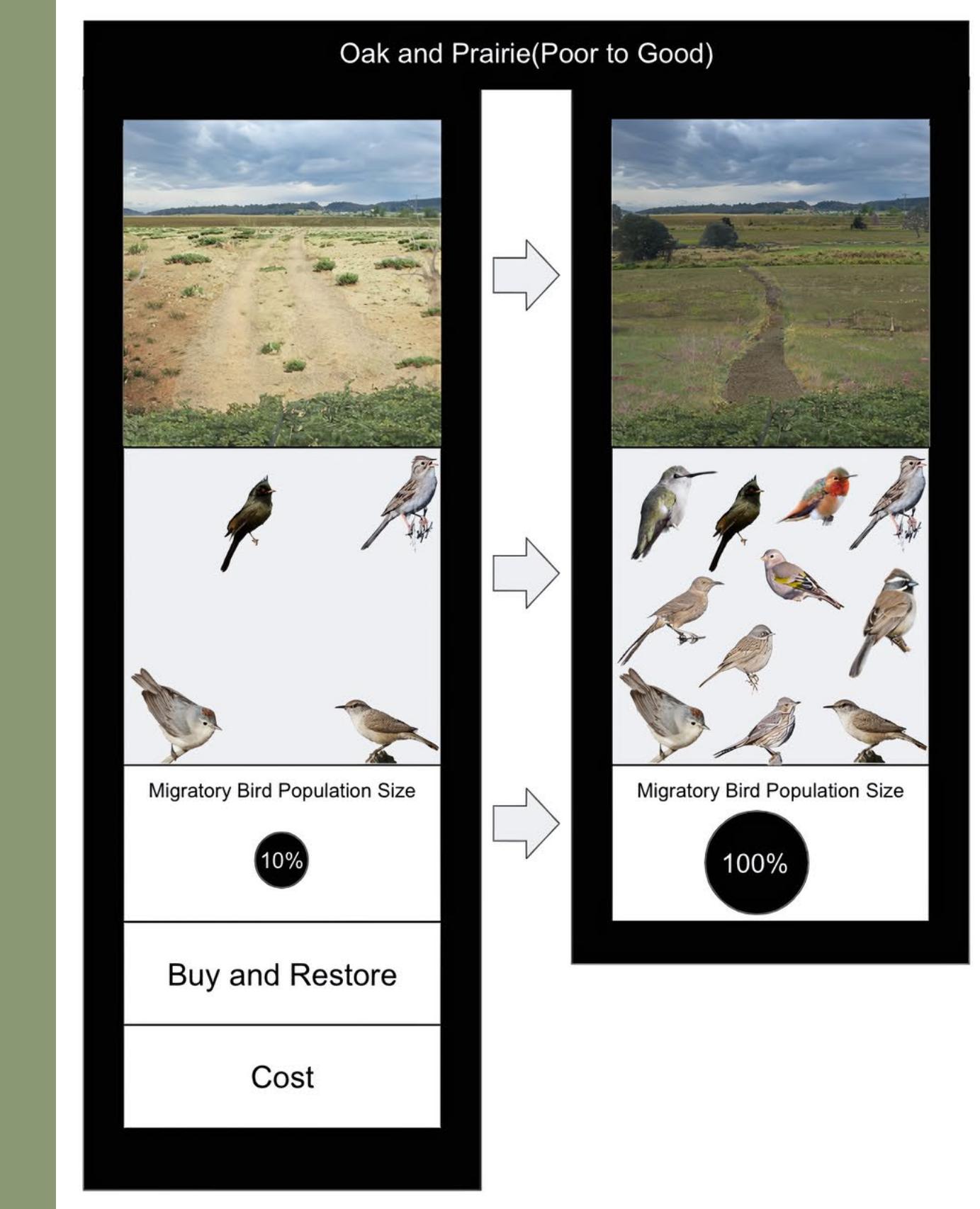
Va l u i n g ‘ T h e B u n d l e ’

The land that will be conserved, with the migratory birds that use the land as stopover sites, and the ecosystem services those birds provide.



Defining ‘The Good’

Valuing ‘The Bundle’



Preliminary Results

Survey Results

Conifer Forest

Good (Maintain): 26 no, 43 yes (62% yes)

Poor to Good (restore): 22 no, 46 yes (68% yes)

Grasslands

Good (Maintain): 28 no, 39 yes (58% yes)

Poor to Good (restore): 26 no, 43 yes (62% yes)

Coastal Wetlands

Good (Maintain): 26 no, 42 yes (62% yes)

Poor to Good (restore): 19 no, 49 yes (72% yes)

Conifer Forests (maintain good)

Count: 60

Average: \$105.38

Median: \$100

Maximum: \$1000

Minimum: \$0

Range: \$1000

Thank you For your knowledge and expertise!

Dr. Catherine Kling, Cornell University

Dr. Sonja Kolstoe, USDA FS PNW Research Station

Dr. Trudy Cameron, University of Oregon

Dr. Amanda Rodewald, Cornell Lab of Ornithology

Dr. Tina Phillips, Cornell Lab of Ornithology

Dr. Jack Zinda, Cornell University

Ecosystem Services Lab Guild

Conservation Center for Social Sciences

All of our amazing focus group participants!

Valued perspective, meetings, and expertise:

Dr. José Sánchez, USDA FS Region 5

Dr. Angela White, USDA FS PSW Research Station

USDA FS Region 6

Deanna Williams - USDA FS Region 6

Jamie Ratliff - USDA FS Region 6

Barbara Garcia - USDA FS Region 6

Joshua Chapman - USDA FS Region 6



Thank you to Our Funders!



Questions?

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