

RESTORING RESILIENCE OF THE SOCIO-ECOLOGICAL LANDSCAPE

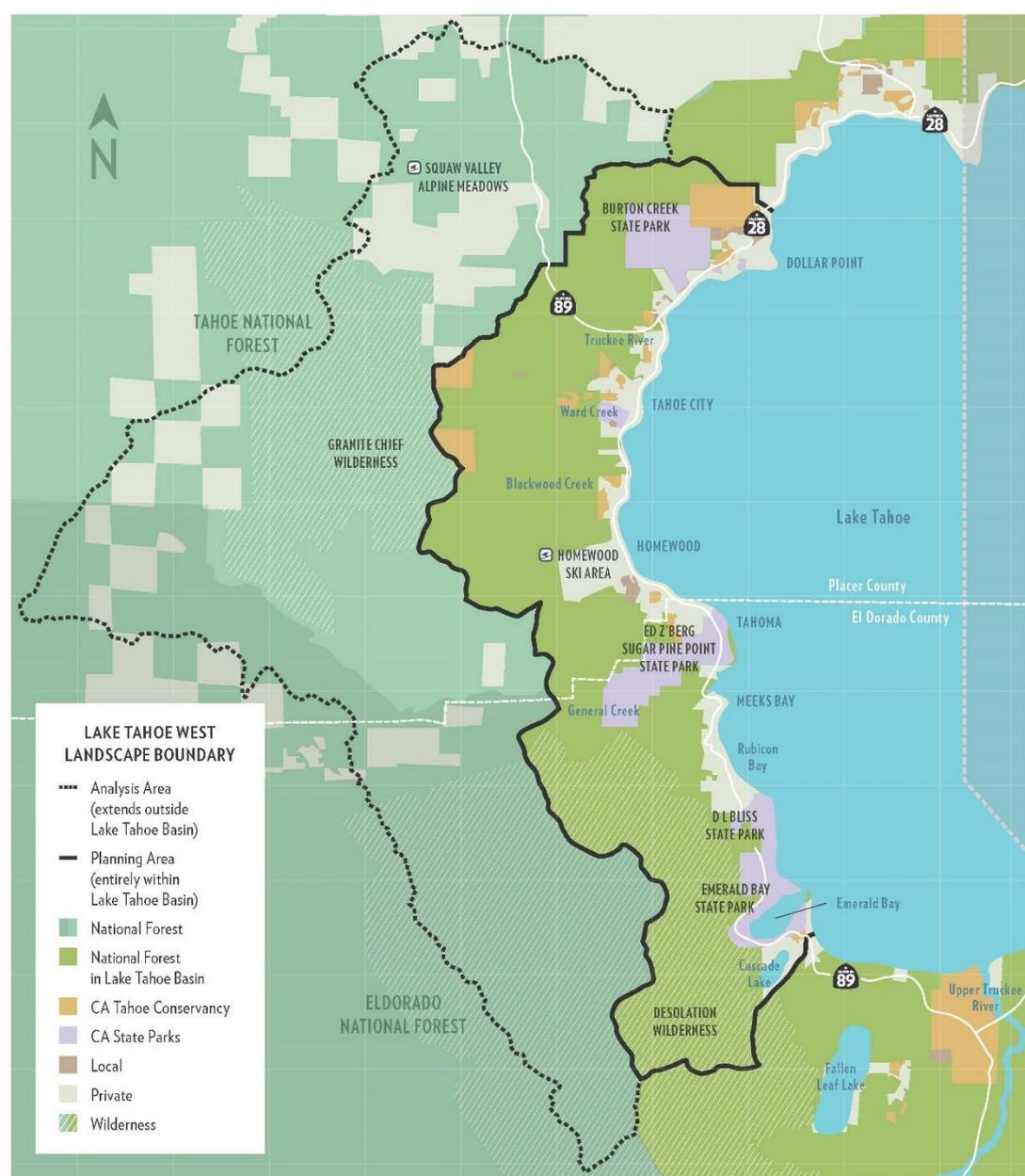
Focus on the Lake Tahoe West Restoration Partnership

Second Annual National Cohesive Wildland Fire Management Strategy Workshop
March 28, 2018



LAKE TAHOE WEST RESTORATION PARTNERSHIP

Resilient forests, watersheds, recreational opportunities, and communities.



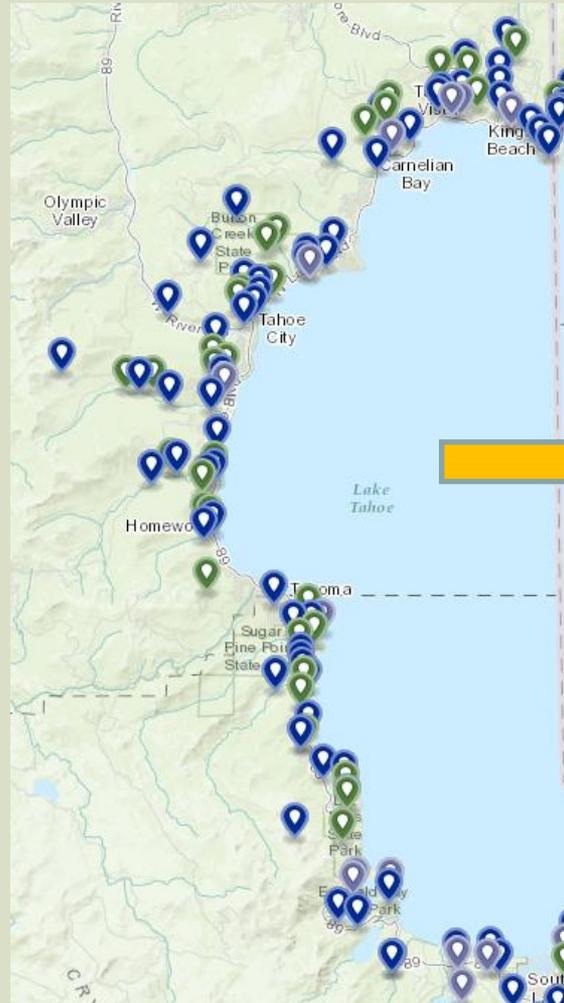
West Shore Forests



Project Approach

- All-lands approach
- Integrates science from the start
- Scale of solution matches scale of problem

Project-by-project focus



Landscape project focus



Lake Tahoe West Restoration Partnership
Phasing Diagram

PHASE 1

Landscape
Resilience
Assessment

December 2017

What would resilient forests and watersheds look like 20, 50, or 100 years in the future?

What elements and/or areas of the landscape are furthest from resilient conditions — are most “out of whack”?

PHASE 2

Landscape
Restoration
Strategy

If restored, what elements and/or areas would yield the greatest benefit for the landscape’s resilience?

What are the greatest barriers to restoring the resilience of these elements and/or areas?

What are the most effective ways to accomplish this restoration?

October 2018

PHASE 3

Restoration Project
Planning &
Documentation

How do we operationalize the strategy on the ground?

How do we sequence the project activities (or projects) in space and over time?

June 2019

*Stakeholder Science Committee
Recommendation*

September 2020 - Record of Decision

PHASE 4

Permitting

October 2020

PHASE 5

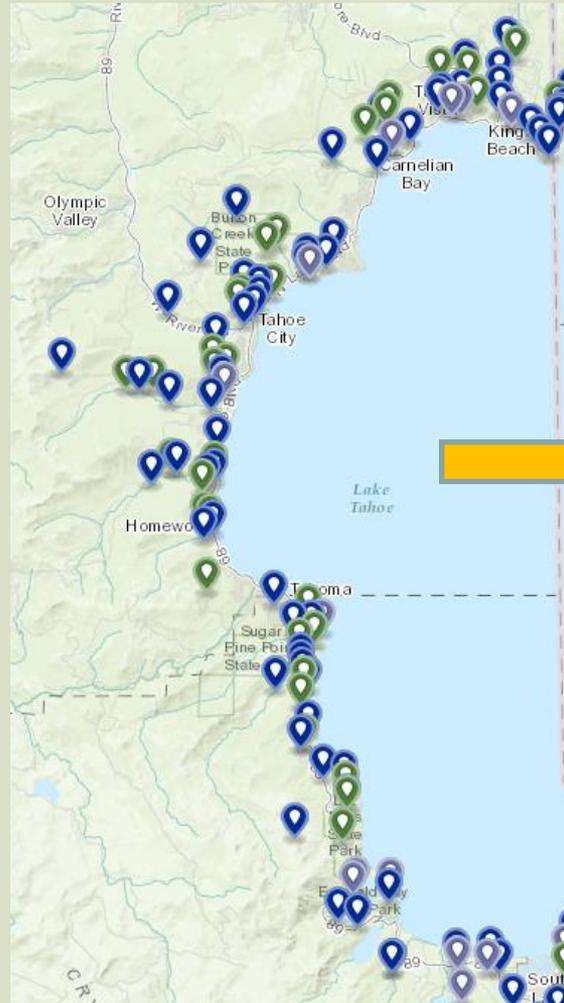
Implementation, Monitoring &
Performance Measurement, and
Improvement

*Ongoing through
August 31, 2025
and beyond*

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Landscape Values and Services

Ecosystems

Vegetation

Wildlife

Watershed

Soils/Carbon

Landscape Values and Services

Ecosystems

Vegetation

Wildlife

Watershed

Soils/Carbon

Public Health & Safety

Life and Property

Water Quality & Supply

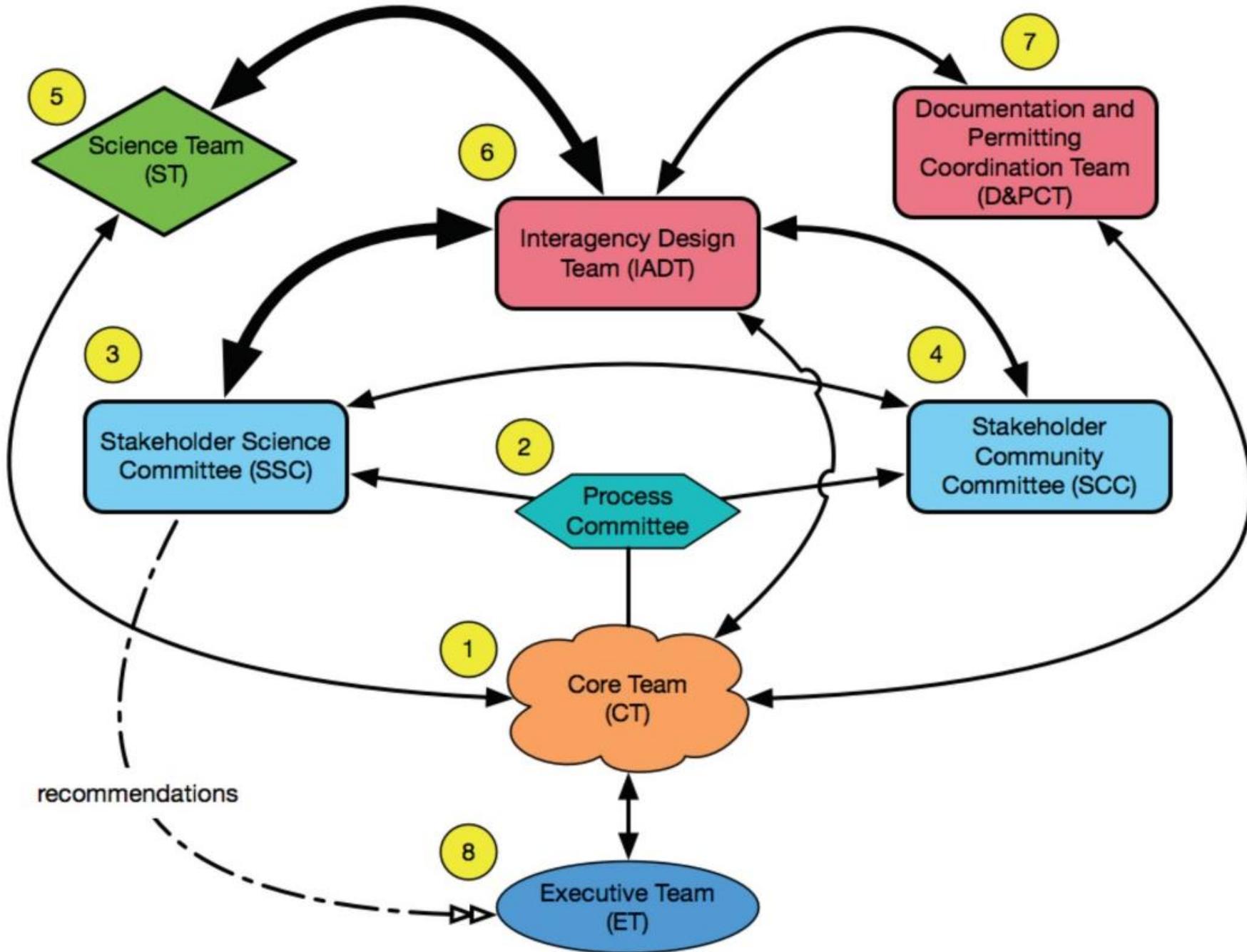
Air Quality

Cultural

Cultural Landscapes

Recreation

Recreation



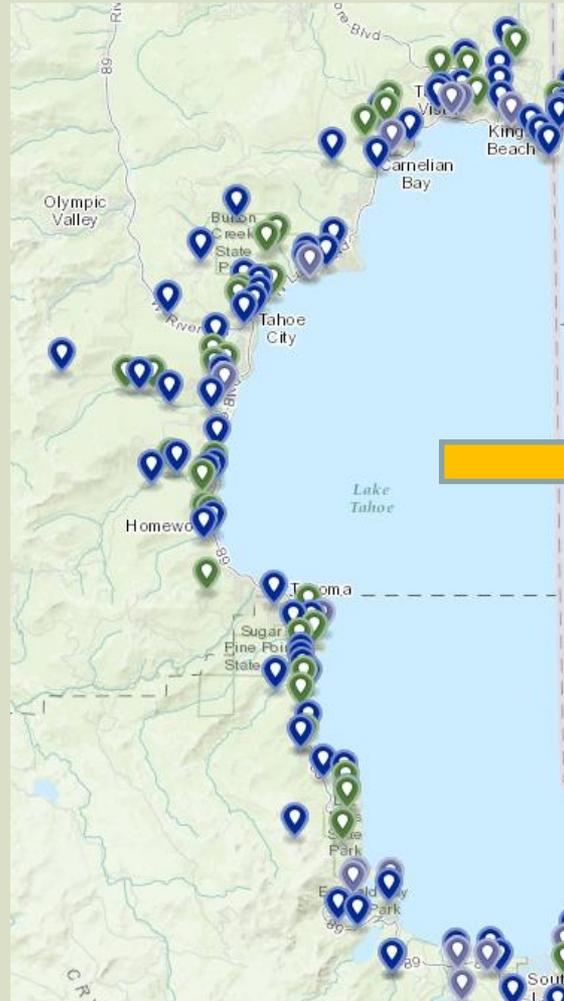
Connecting Fire Adapted Communities to Landscape Resilience through Stakeholder Engagement Processes

- Brian Garrett, Assistant Staff Officer, US Forest Service Lake Tahoe Basin Management Unit
- Sarah DiVittorio, Northern California Program Manager, National Forest Foundation
- Ryan Anderson, Executive Director, Washington Resource Conservation and Development Council
- John O'Connor, Cohesive Wildfire Strategy Coordinator, Oregon Department of Forestry
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Project Approach

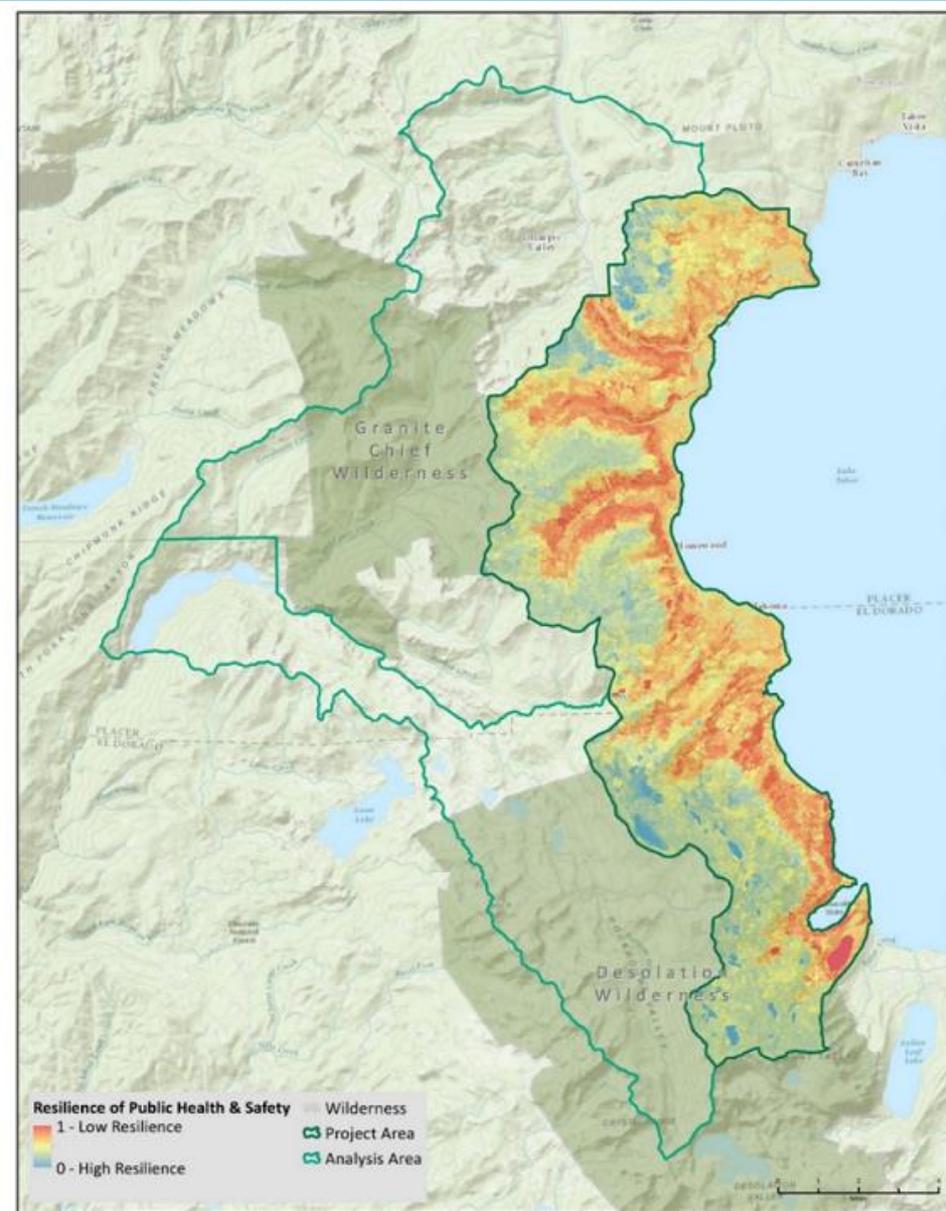
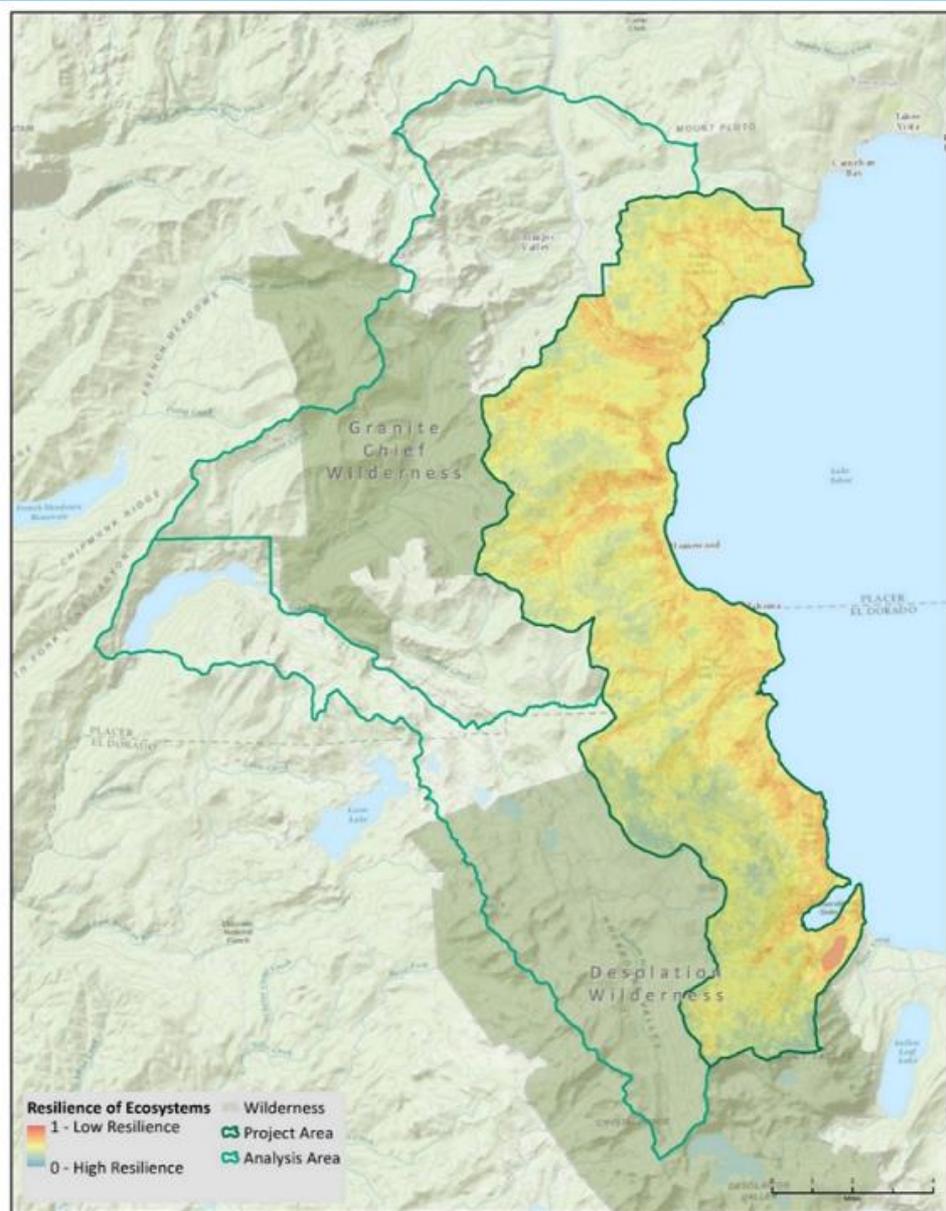
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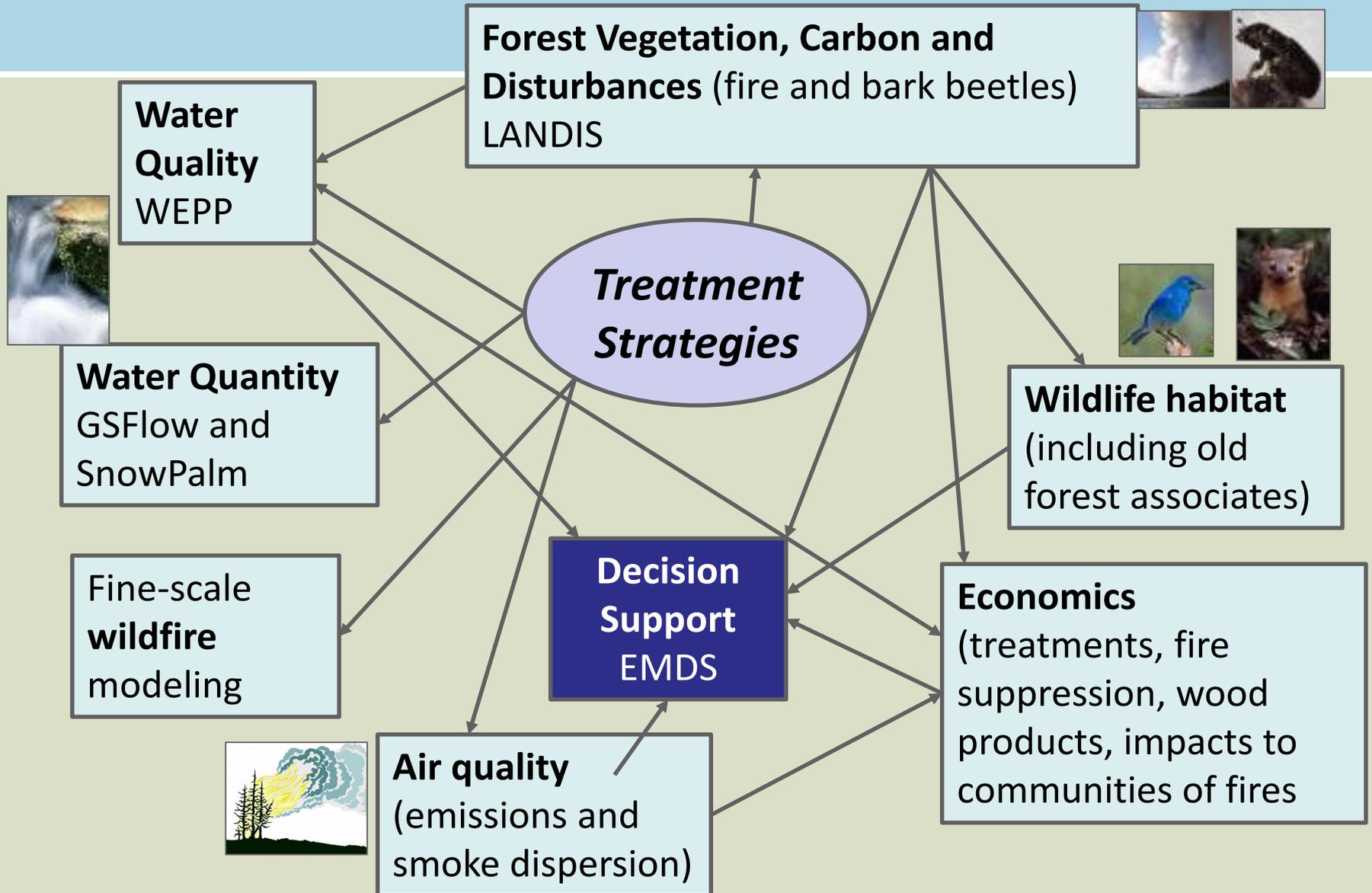


Landscape project focus





Lake Tahoe West Science Integration



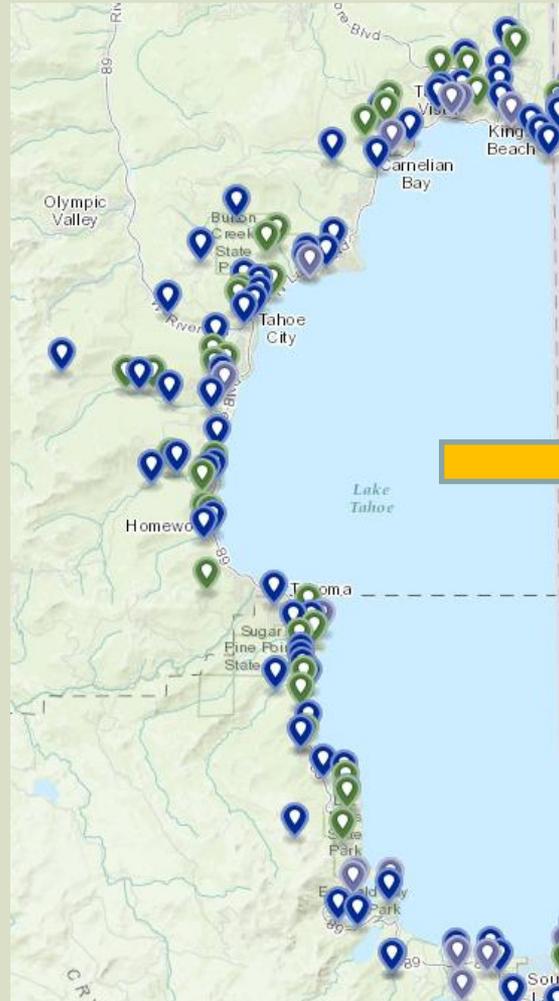
Assessing Landscape Resilience and Using Scientific Modeling to Inform Strategies

- Mason Bindl, GIS Analyst, Tahoe Regional Planning Agency
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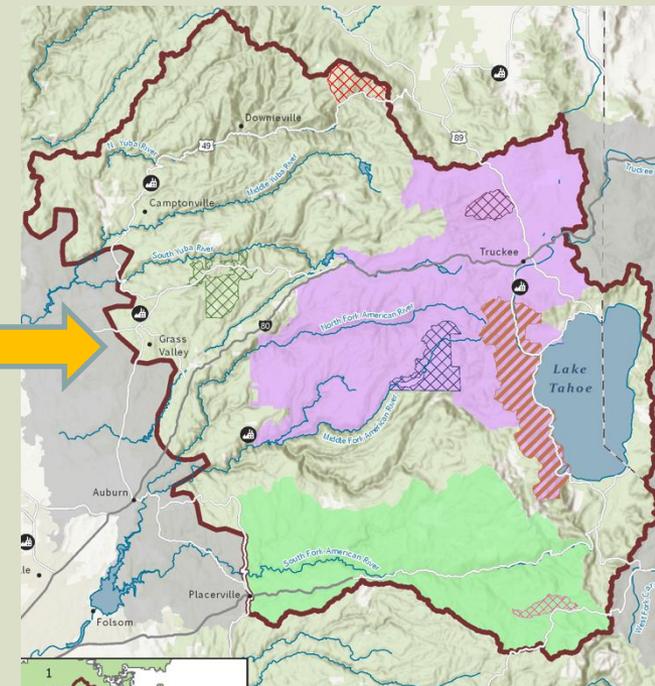
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Landscape project focus



Regional focus



Increasing Capacity by Leveraging Resources and Working at Scale

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- Jason Vasques, Recreation, Access, and Forest Ecosystem Planning Supervisor, California Tahoe Conservancy
- Becca Samulski, Coordinator, Dolores Watershed and Resilient Forest (DWaRF) Collaborative, Firewise of Southwest Colorado
- Craig Goodell, Northern Rockies Fire Operations, US Forest Service & Bureau of Land Management
- Session Moderator: Katie Lighthall, Coordinator, Western Region National Cohesive Wildland Fire Strategy

Panel Discussions

- Connecting Fire Adapted Communities to Landscape Resilience through Stakeholder Engagement Processes
Naples 1-5 (this room)
- Assessing Landscape Resilience and Using Scientific Modeling to Inform Strategies
Naples 6
- Increasing Capacity by Leveraging Resources and Working at Scale
Naples 7

Panel Presentation Slides

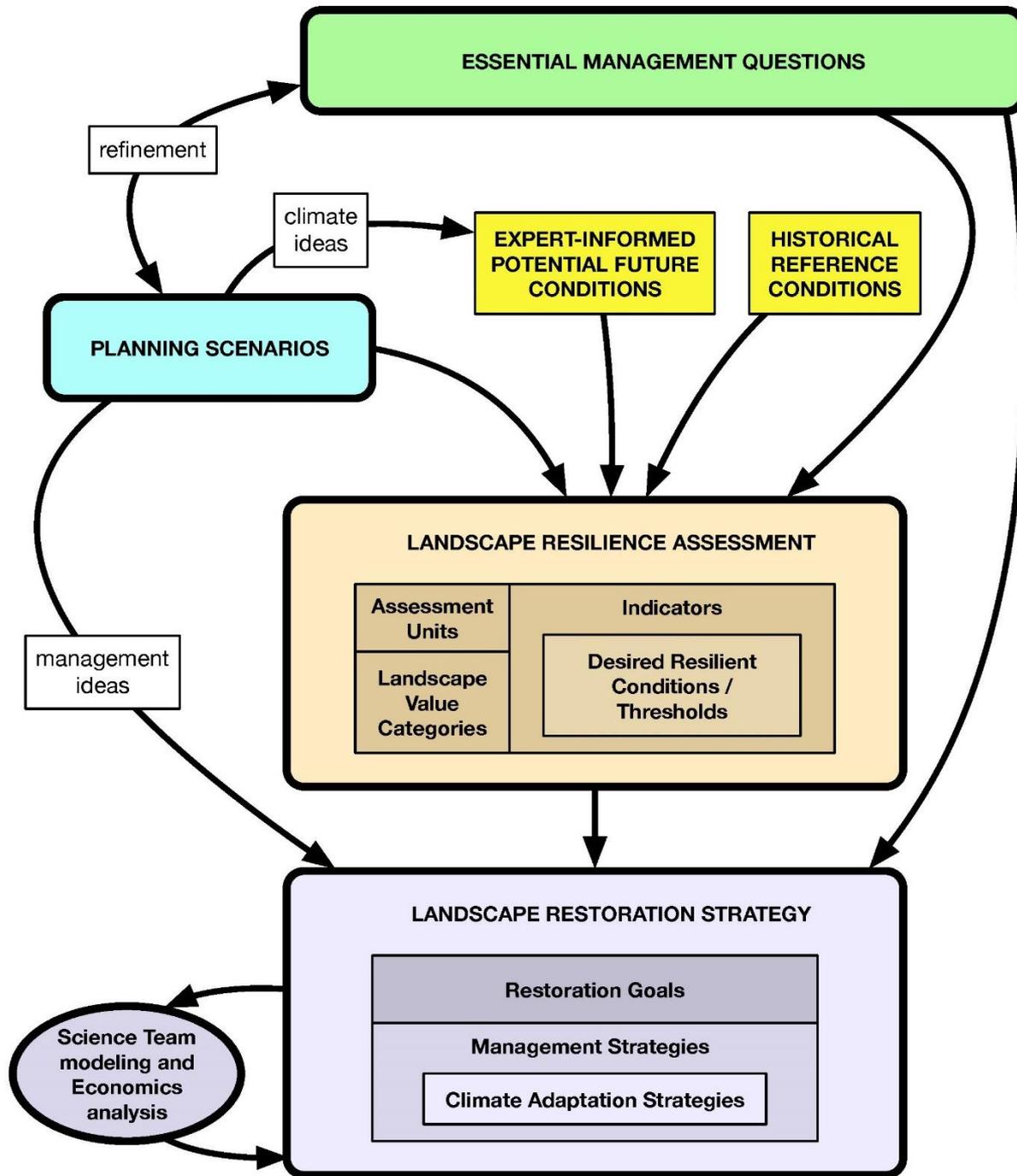
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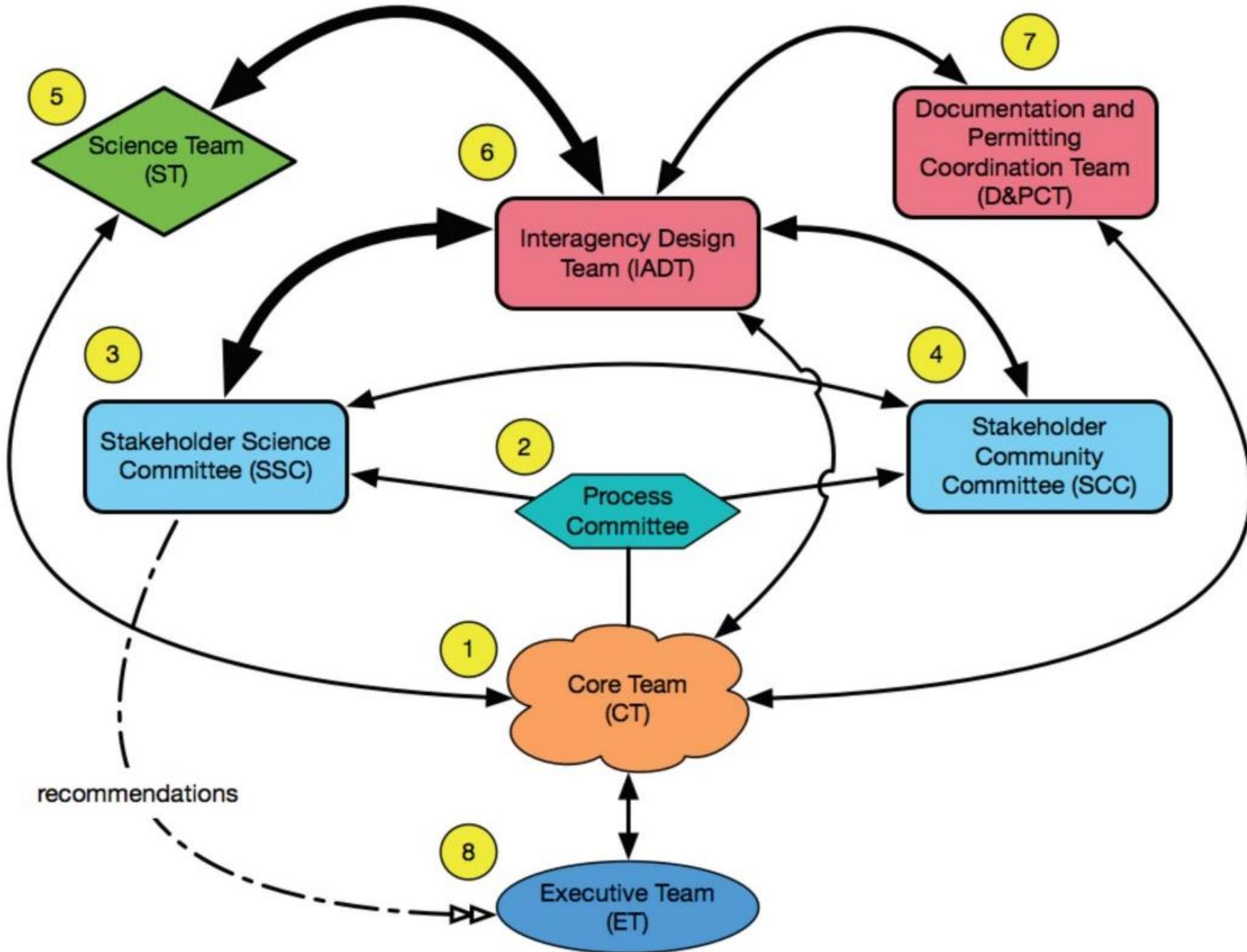
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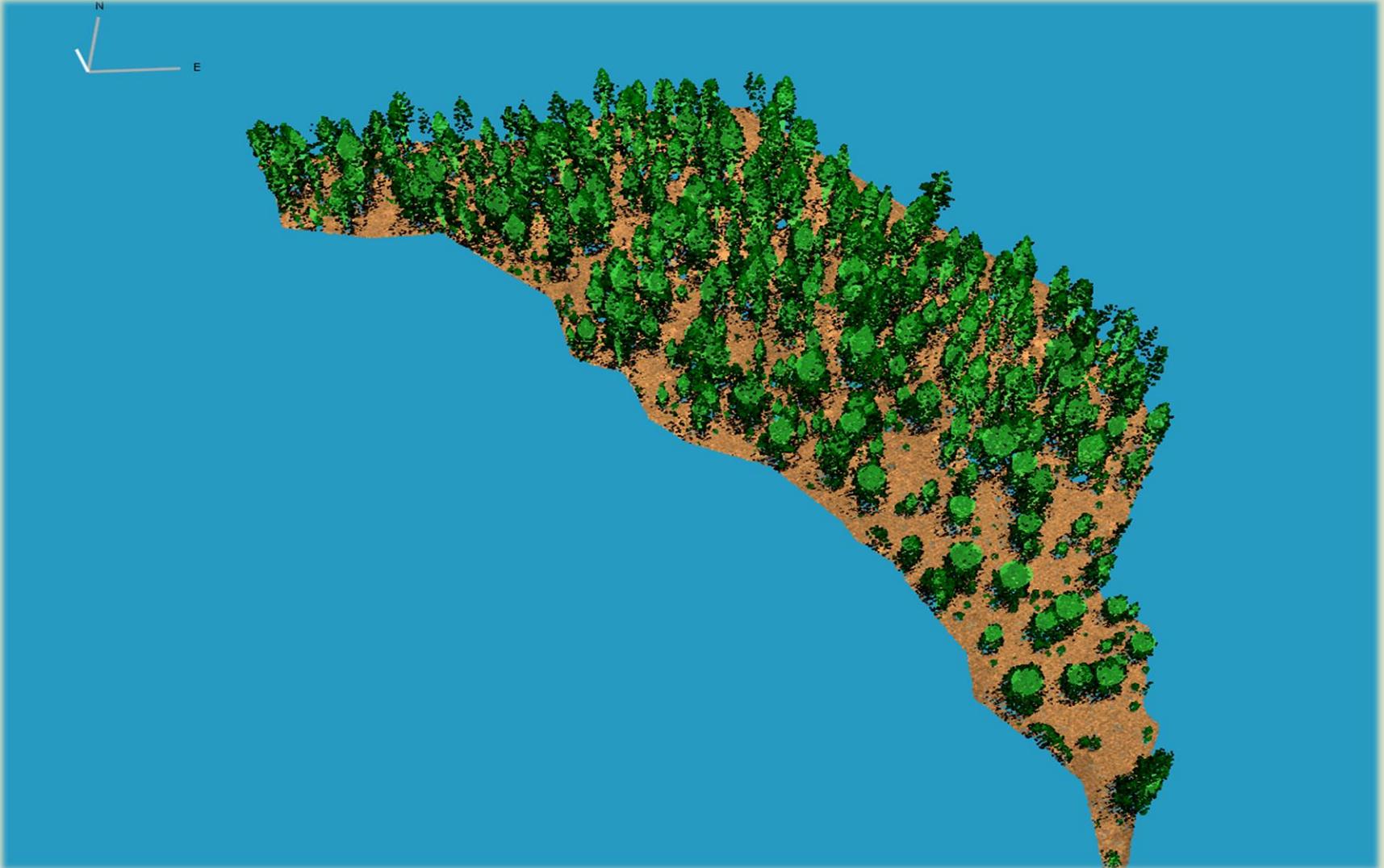
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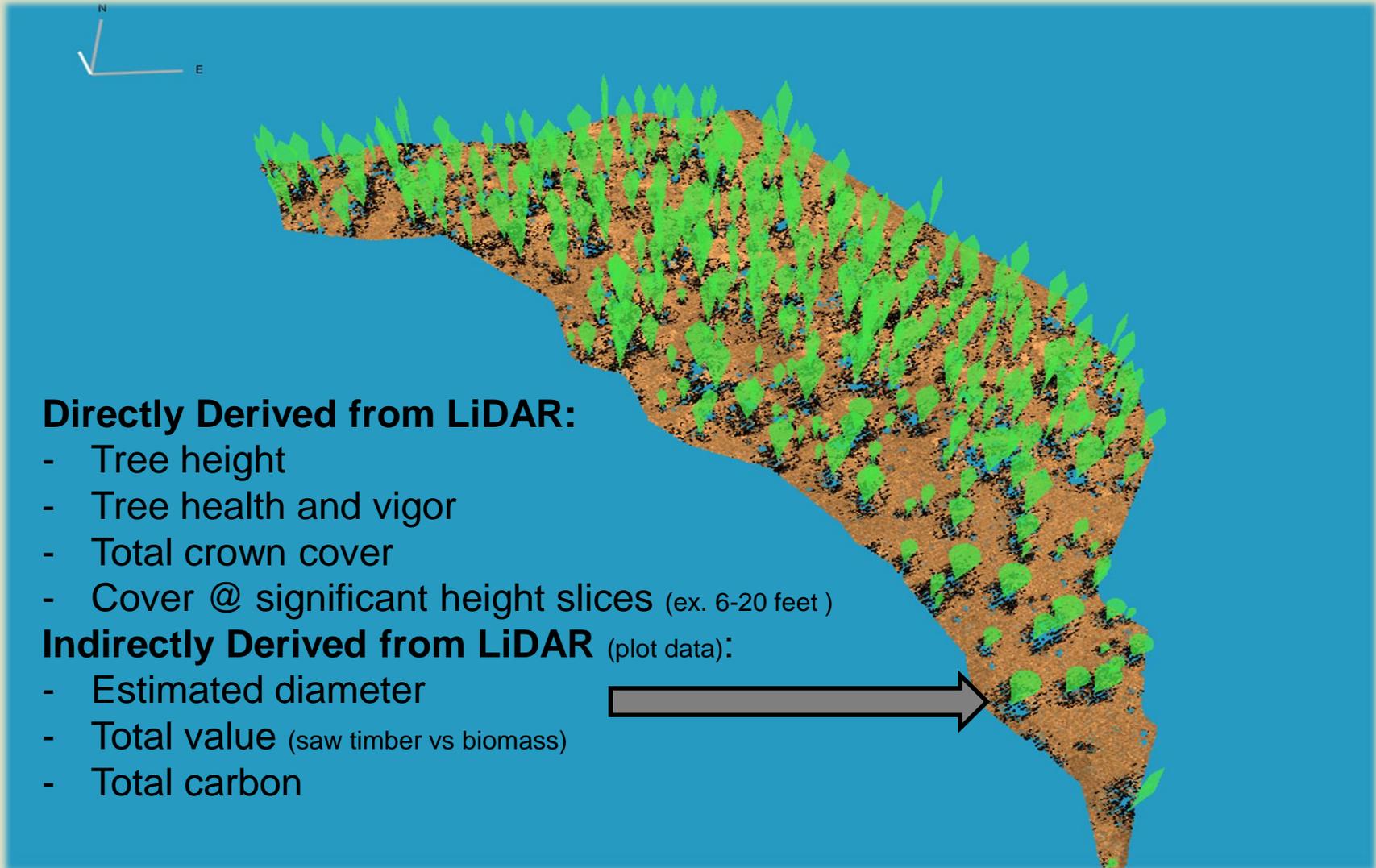
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EcObject



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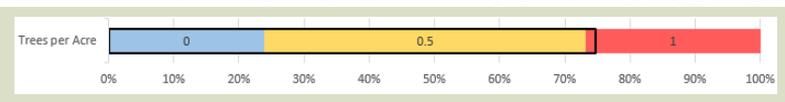
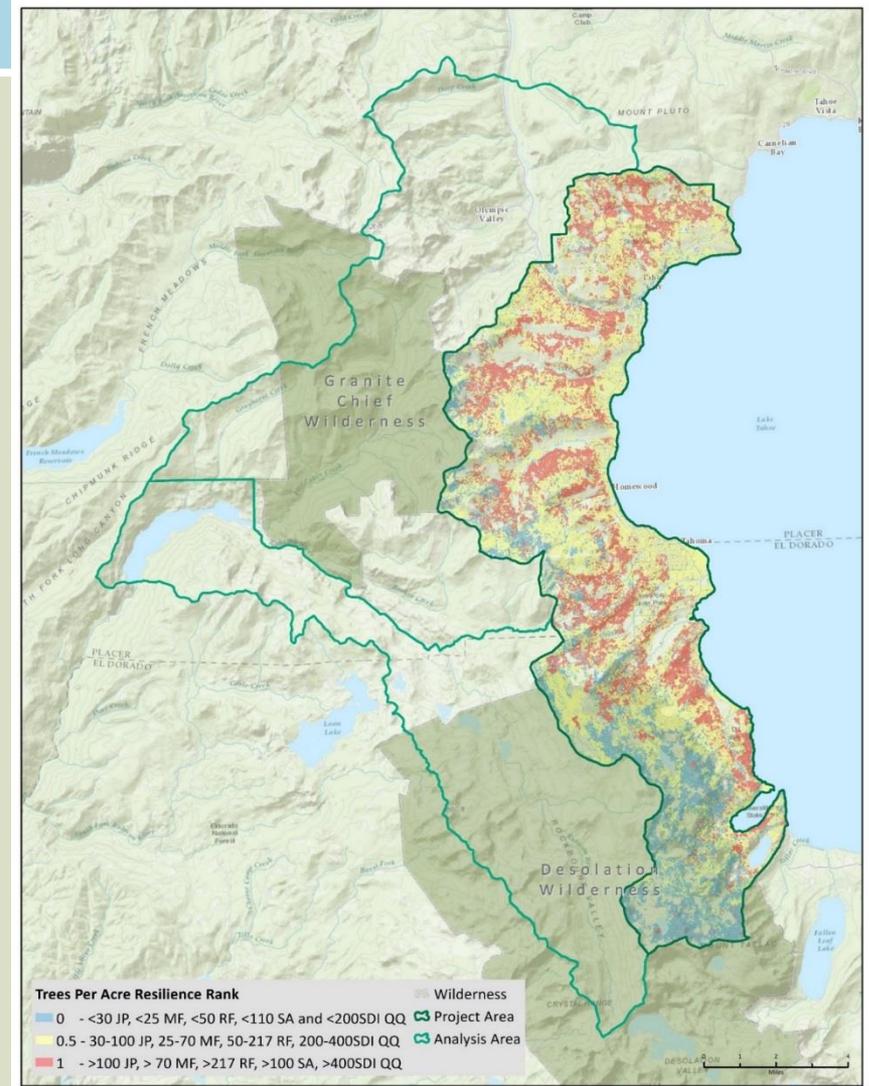
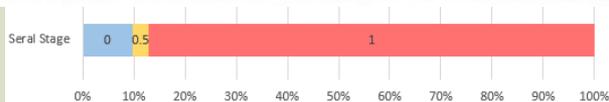
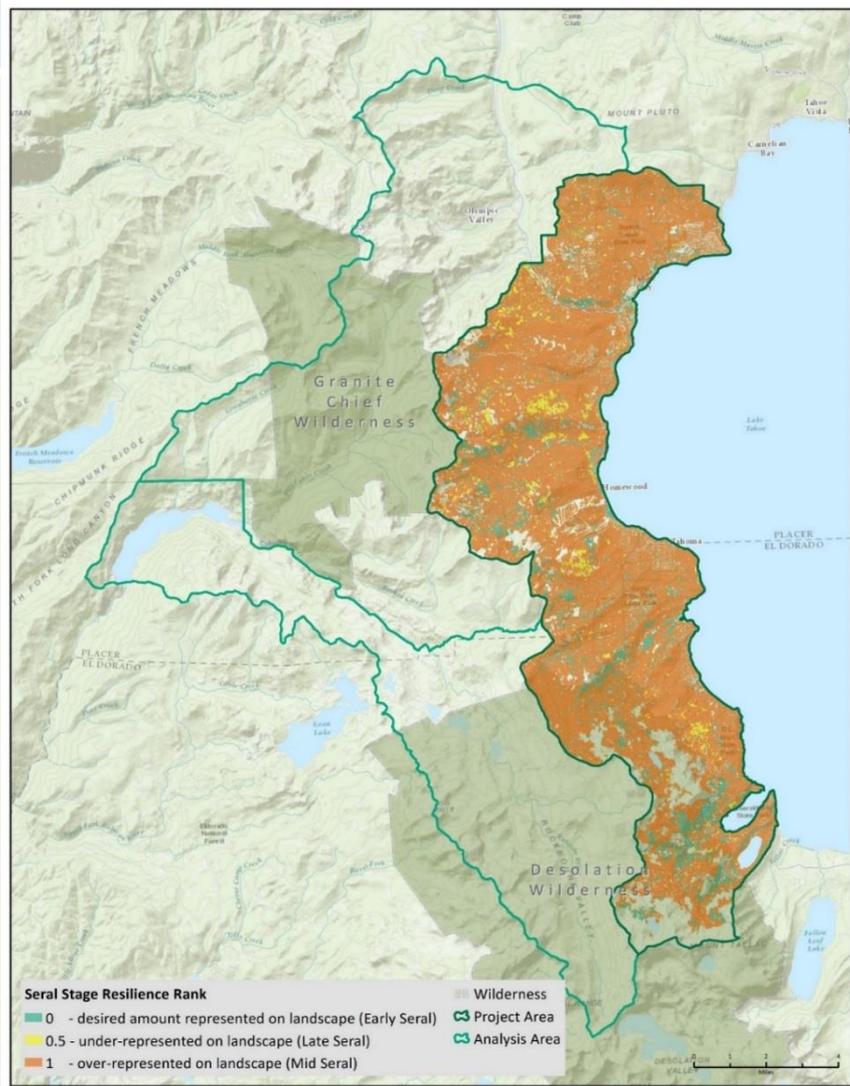


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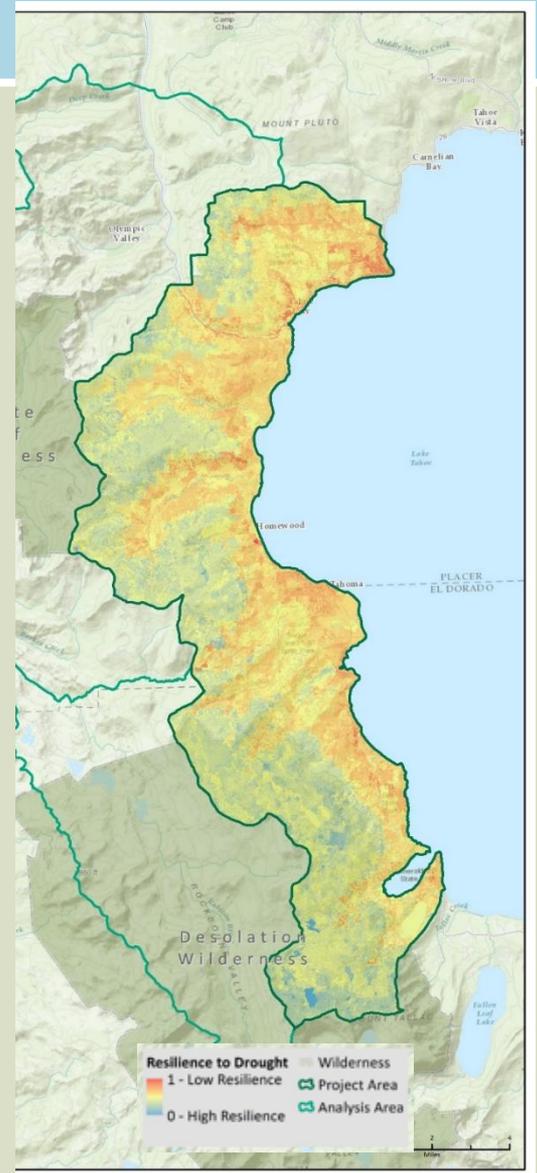
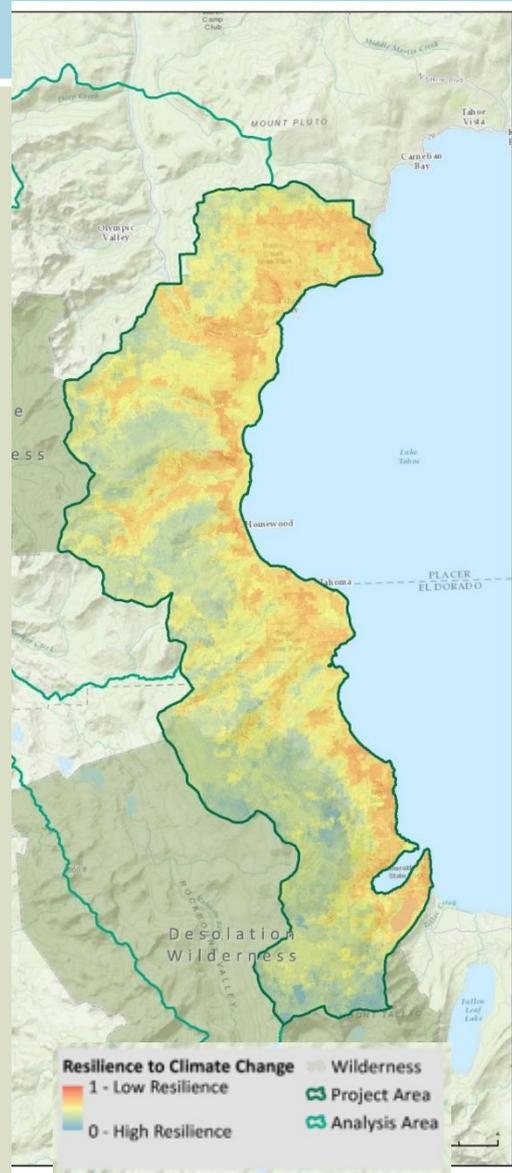
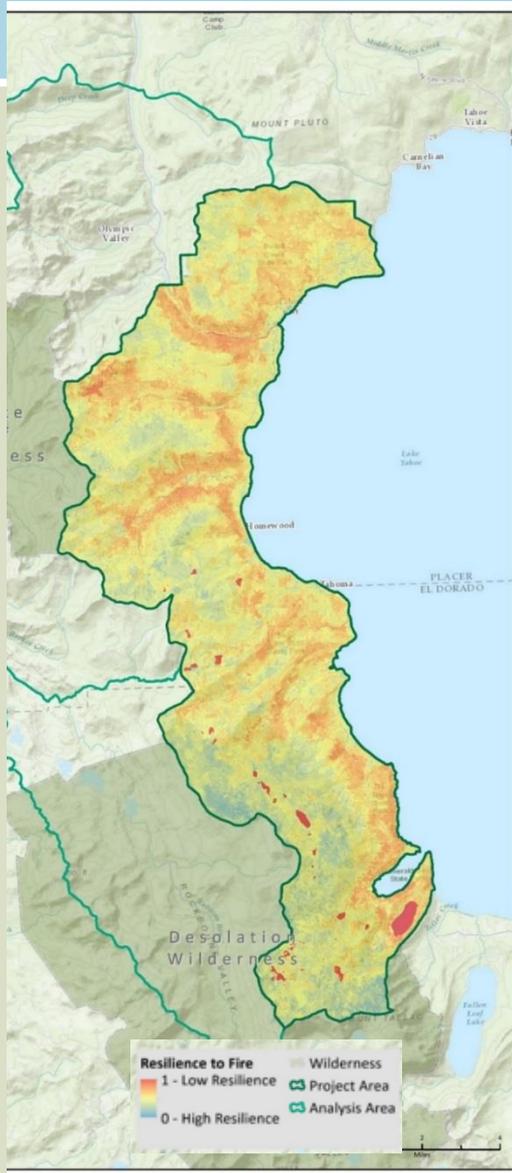
Results

Over-representation of mid-seral, high trees per acre



Results

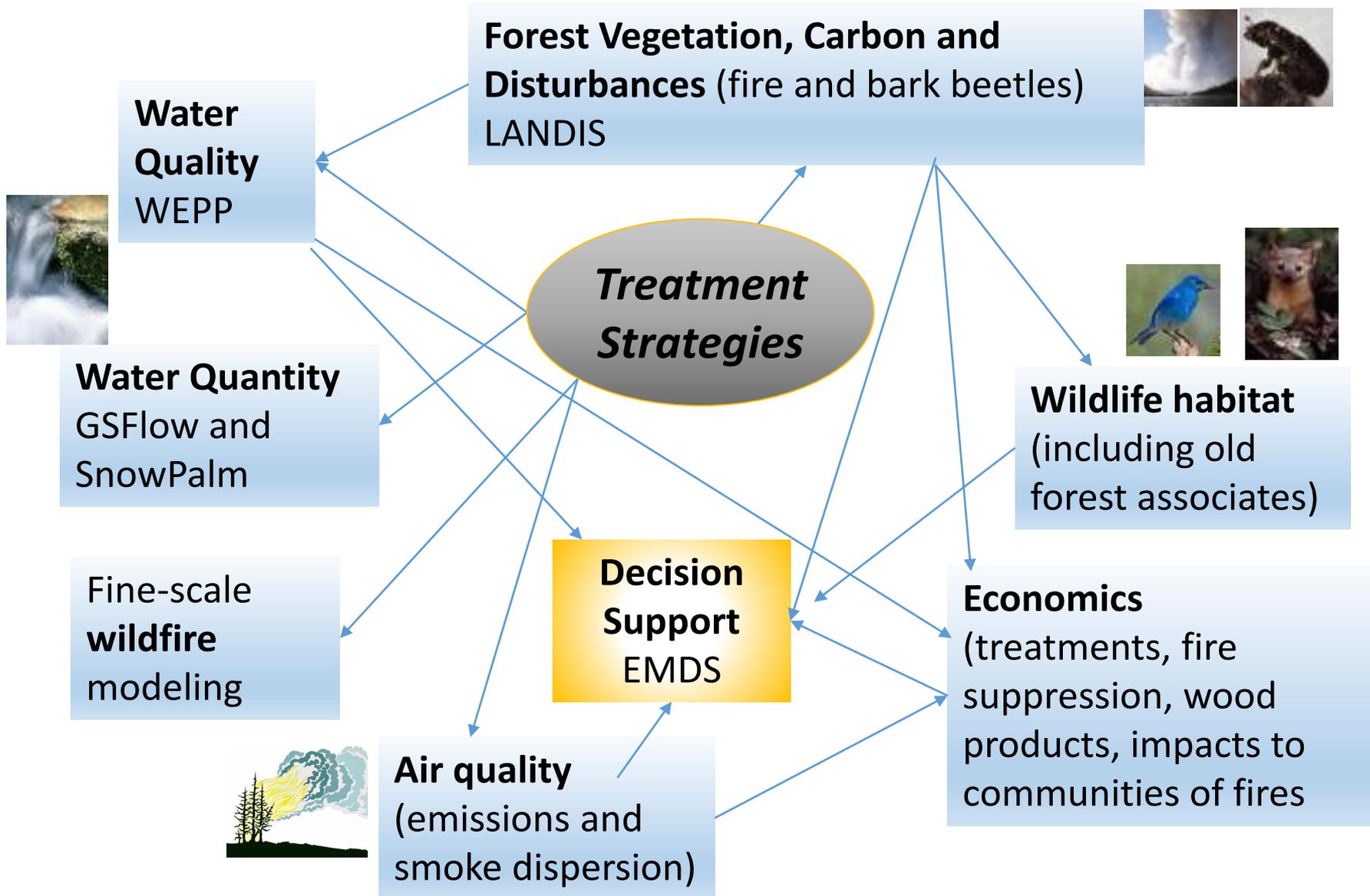
Low elevations and canyons tend to be areas of least resilience



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Lake Tahoe West Science Integration



Challenge

Lesson

Useful Integration: Linking models to develop consistent evaluation of tradeoffs at relevant scales

There are benefits to integrating internally within a modeling framework, but it is challenging.
Sometimes tiering modeling to relevant scales may be more appropriate.

Appropriate Questions: Framing questions in ways that can be answered meaningfully

Devote considerable time to understand the key tradeoffs, scales of concern, and desired performance measures/indicators

Appropriate Scales: Encouraging consideration of broad-scale issues (landscape areas over decades) rather than getting bogged down in fine-scale constraints

Encourage participation from individuals who are comfortable working at the broad-scale, while providing options for addressing fine-scale issues that may be important to particular stakeholders (Executives, regulators, citizen groups)

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Increasing Capacity by Leveraging Resources and Working at Scale

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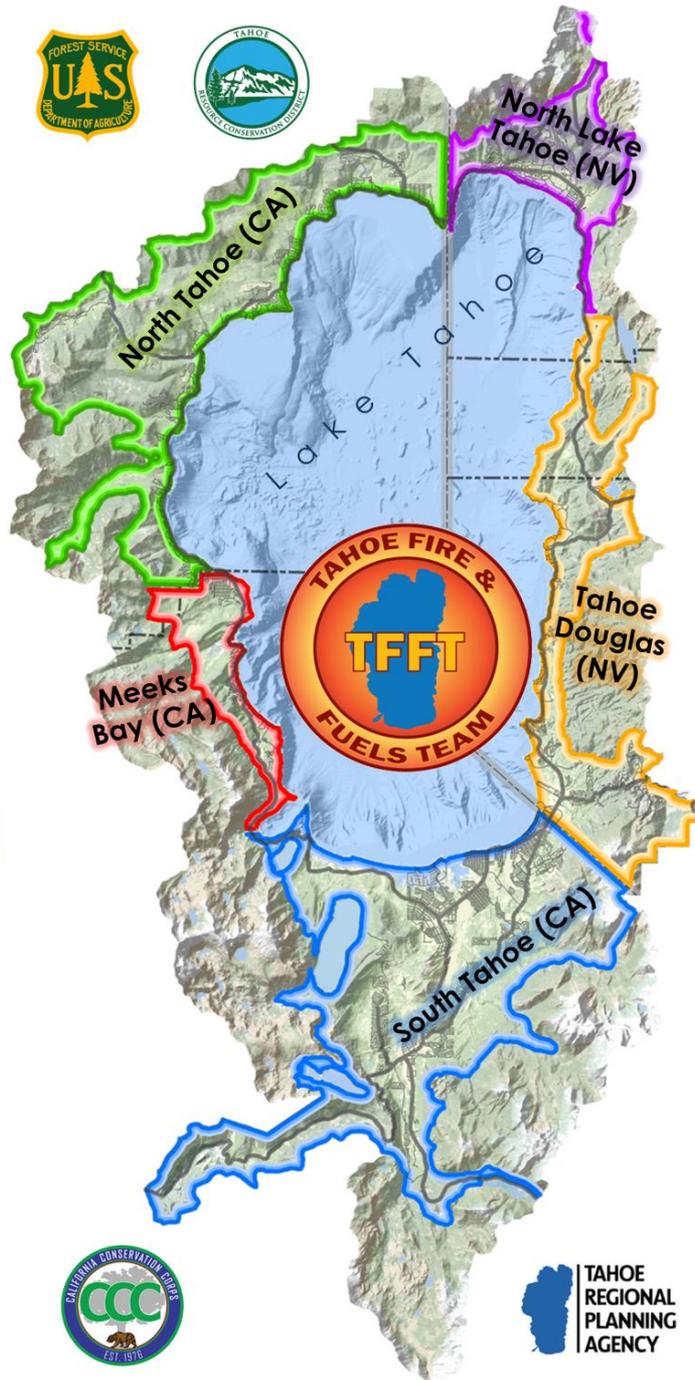
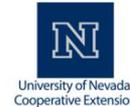
The Strategy

- California Department of Forestry and Fire Protection
- California State Parks
- California Tahoe Conservancy
- Fallen Leaf Fire Department
- Lake Valley Fire Protection District
- Meeks Bay Fire Protection District
- Nevada Division of Forestry
- Nevada Division of State Lands
- Nevada Division of State Parks
- Nevada Tahoe Resource Team
- North Lake Tahoe Fire Protection District
- North Tahoe Fire Protection District
- South Lake Tahoe Fire Department
- Tahoe Douglas Fire Protection District
- Tahoe Regional Planning Agency
- United States Department of Agriculture Forest Service

Lake Tahoe Basin Multi-Jurisdictional Fuel Reduction and Wildfire Prevention Strategy

August 2014



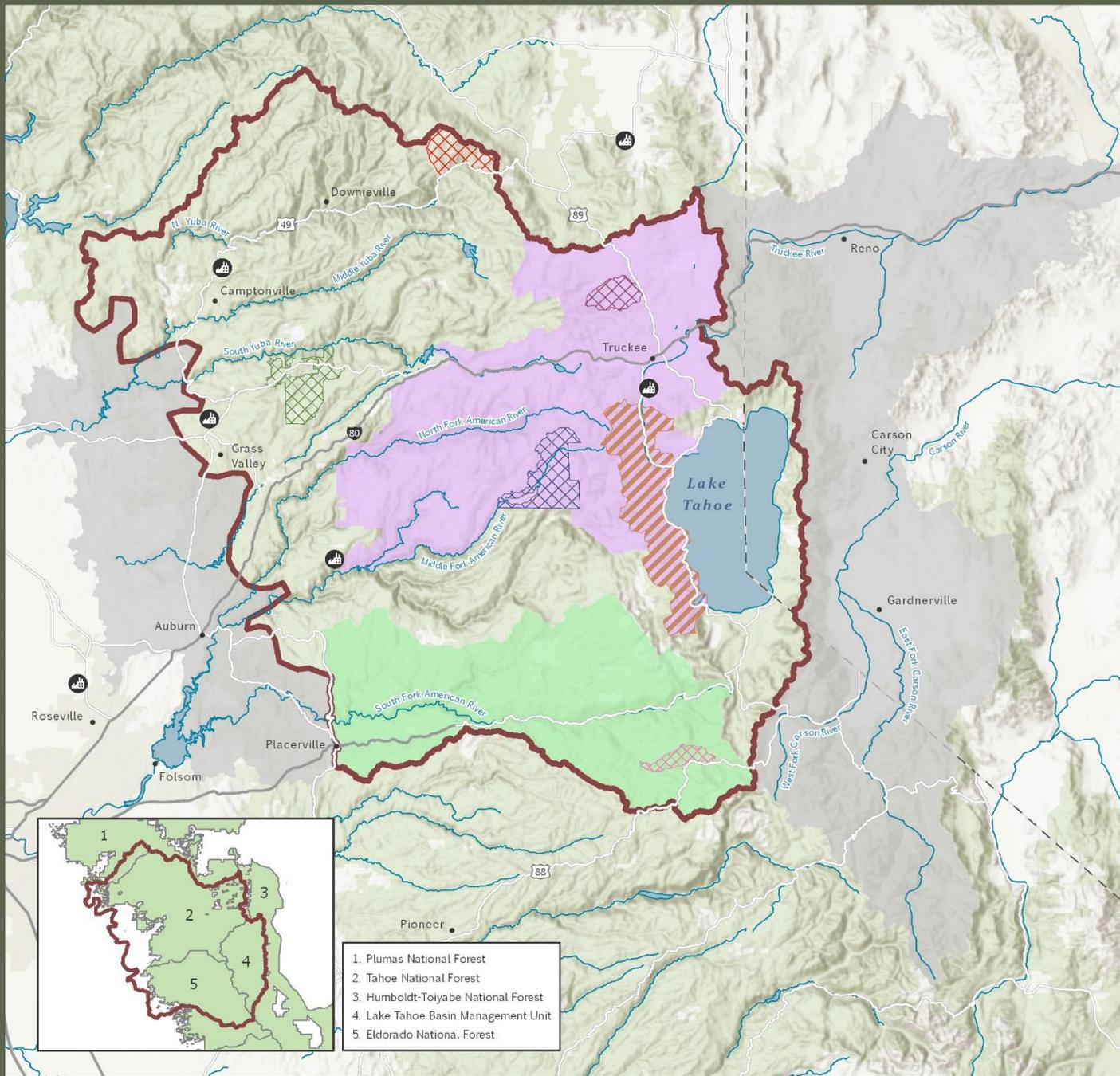


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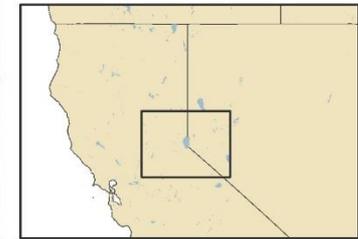
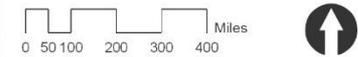
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Tahoe-Central Sierra Initiative

A Collaborative Approach
To Achieve Resilience

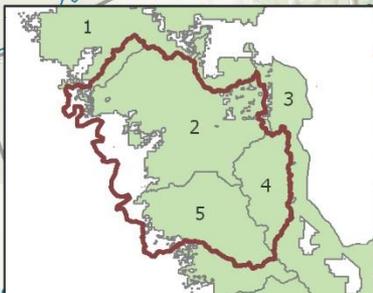


- Place
- Existing or Proposed Biomass Utilization Site
- Highway
- Freeway
- River
- Tahoe-Central Sierra Initiative
- North Yuba Forest Resilience Project
- Western Nevada County Defensible Space Project
- French Meadows Project
- Caples Ecological Restoration Project
- Sagehen Experimental Forest Project
- Lake Tahoe West Restoration Partnership
- National Forest Foundation Treasured Landscape
- South Fork American River Cohesive Strategy
- Area of Interest



Projection: WGS 1984 Web Mercator Auxiliary Sphere
 Sources: Esri, USGS, NGA, NASA, CIGAR, N Robinson, NCEAS, NLS, OS, NINA, Geodatasystem, Rijksvoorlichtingsdienst, GSA, Geoland, FEMA, Intermap and the GIS user community

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1. Plumas National Forest
2. Tahoe National Forest
3. Humboldt-Toiyabe National Forest
4. Lake Tahoe Basin Management Unit
5. Eldorado National Forest

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