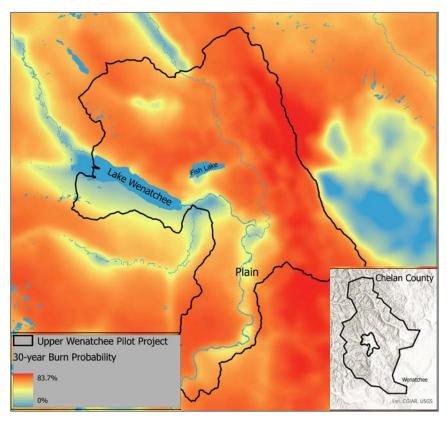


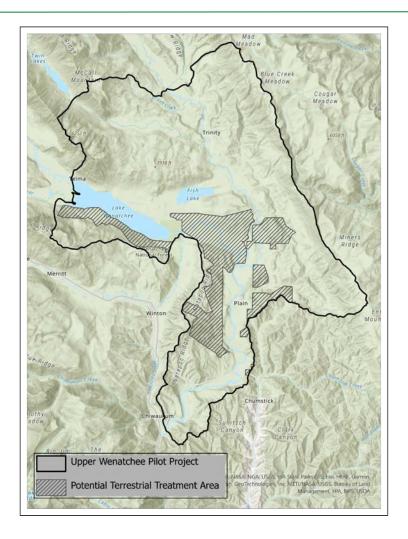
Why are we here today?

- Over 80% of Chelan County is forested land and is home to some of the highest-risk communities and infrastructure in the Western U.S.
- The communities of Lake
 Wenatchee and Plain are calling for accelerated forest management
- This is a moment where local, regional, state, and federal support can catalyze long-term partnerships to reduce wildfire risk at scale



Lake Wenatchee & Plain | 30-year Burn Probability

Lake Wenatchee and Plain: Community protection project



Chelan County is leading implementation and project management of 5,000 acres of fuels reduction and accompanying aquatic restoration across a 15,000 acre footprint in the WUI to reduce wildfire risk and protect the communities of Lake Wenatchee and Plain



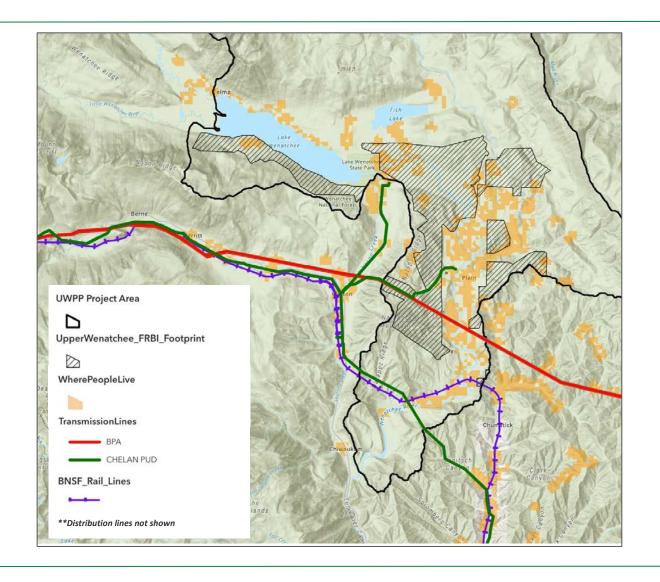




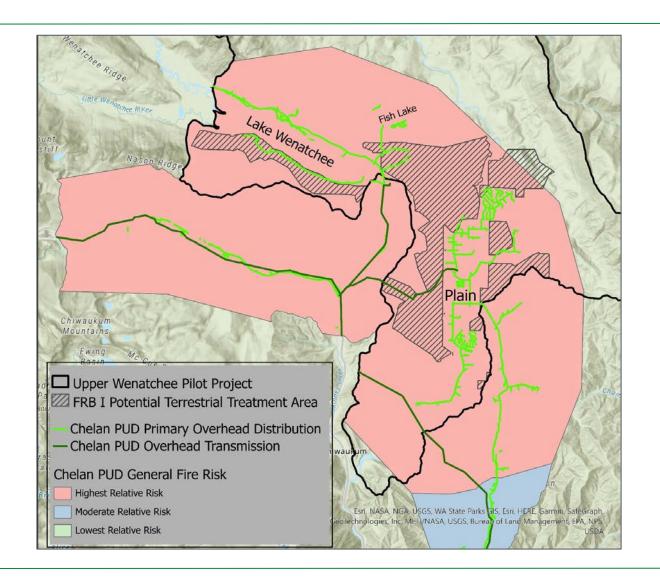




Communities, infrastructure & project area



PUD infrastructure & treatment units



Goal of forest health treatments

Overstocked Forest







Healthy Forest





Proposed forest management treatments

Forest Management





- Non commercial thinning, commercial thinning, and prescribed fire: Reduce the density of small diameter trees and removing fuels from the landscape
- Fuel breaks: Opportunities for fire suppression and containment
- Aquatics: Watershed restoration to improve habitat, reconnect hydrology, and create natural fuel breaks

Collaborative approach & blueprint for success

Status Quo Upper Wenatchee FRB Implementation Permitting complete and 5-yr implementation plan Strategy? **Forest Service** Chelan County is the project manager Capacity? Cost sharing and financing \$\$\$? WUI work implemented now WUI work?

This approach will accelerate the pace and scale of action, starting work in summer 2024

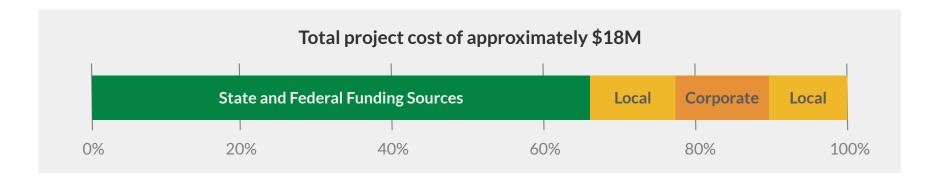
Cost sharing and financing

A coalition of funders is needed to implement the Upper Wenatchee FRB

Washington State and US Forest Service have committed funds. Project is engaging Chelan County, infrastructure owners, corporates and other partners

Support for the project will:

- Answer the community's call to action
- Reduce risk to communities, local infrastructure, and the environment
- Support Chelan County-led project implementation



Potential project benefits

The project may deliver the following benefits to **infrastructure owners** and to **local communities**, **the environment**, **and economy**

Avoided infrastructure repair & replacement costs





Community protection & power reliability

Deferred costs of infrastructure upgrades





Supporting a local restoration economy

Avoided shut-off & restart costs or losses in power revenue





Biomass and forest products infrastructure

Enhanced effectiveness of vegetation management





Habitat improvement & watershed health

Insurance benefits





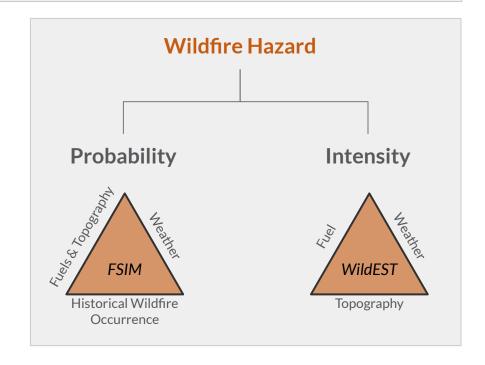
Protected recreation opportunities

Wildfire risk modeling



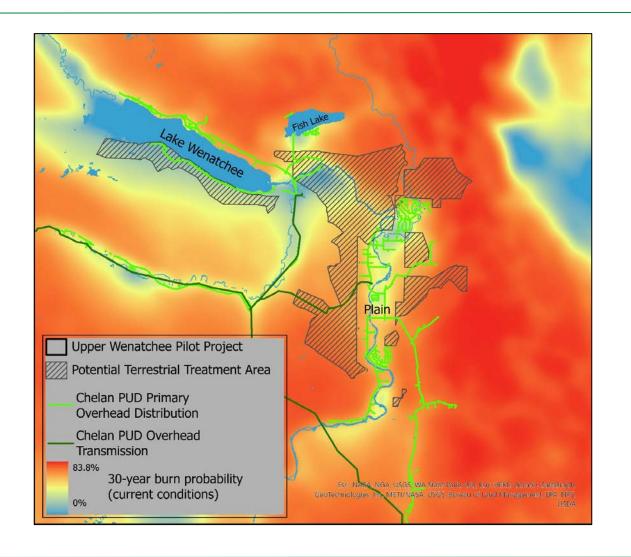
We contracted Pyrologix to model existing and post-treatment landscape conditions, using the best available science to quantify wildfire hazard and risk

- Framework to measure hazard
 - Probability (FSIM)
 - Intensity (WildEST)
- Calculations are conservative
 - Do not show the benefits of improved response and fire suppression capabilities



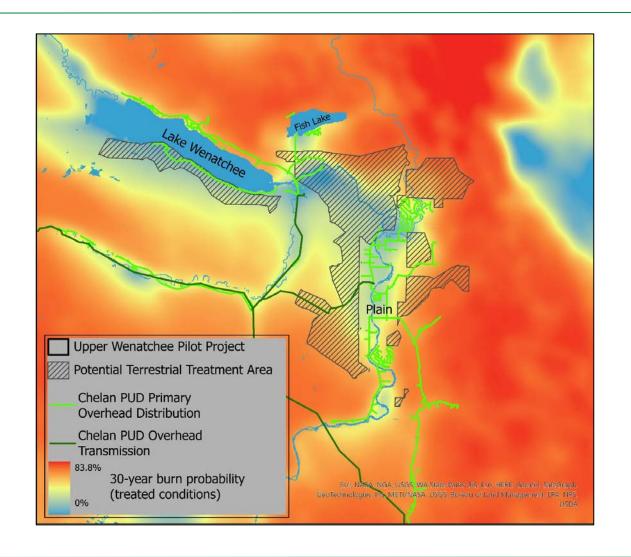
Burn Probability 30-year burn probability

Current Conditions



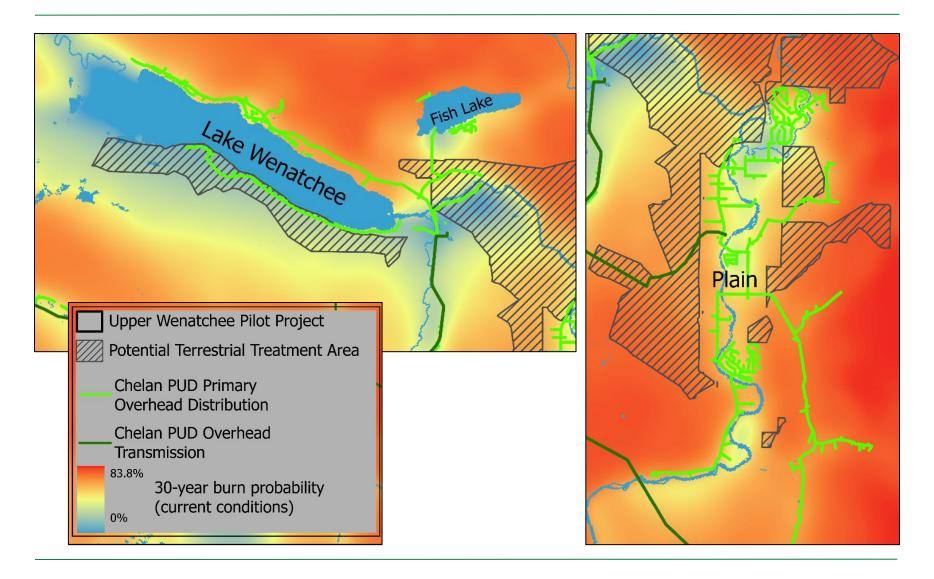
Burn Probability 30-year burn probability

Treated Conditions



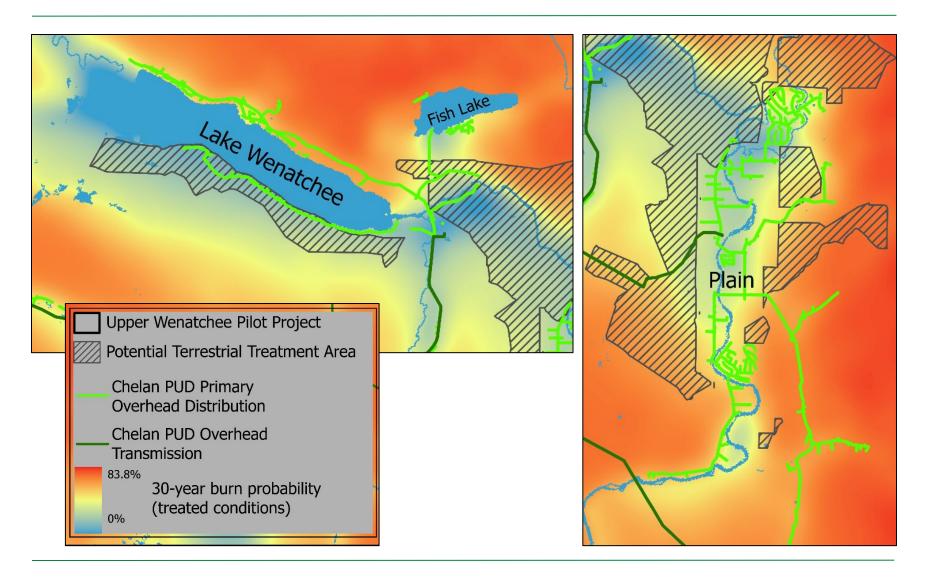
Burn Probability 30-year burn probability

Current Conditions (zoomed)

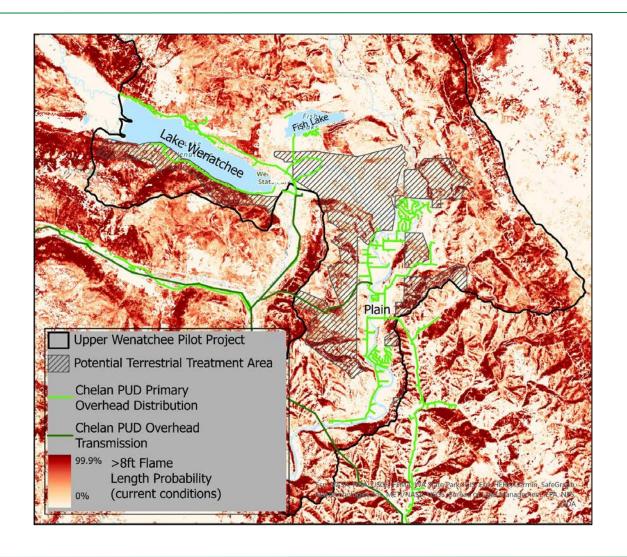


Burn Probability | 30-year burn probability

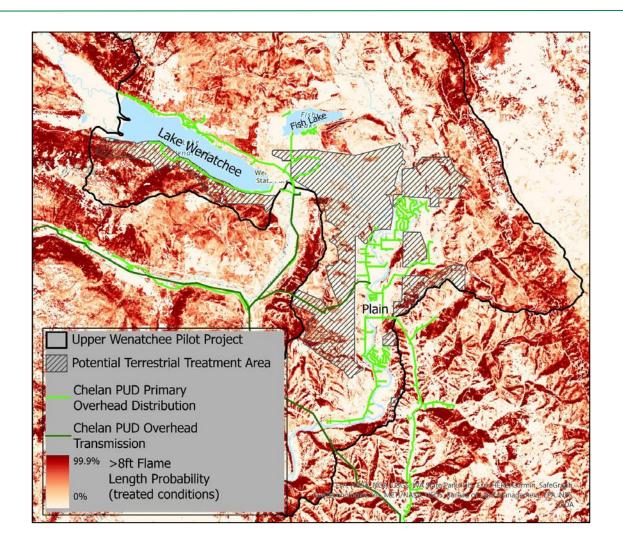
Treated Conditions (zoomed)



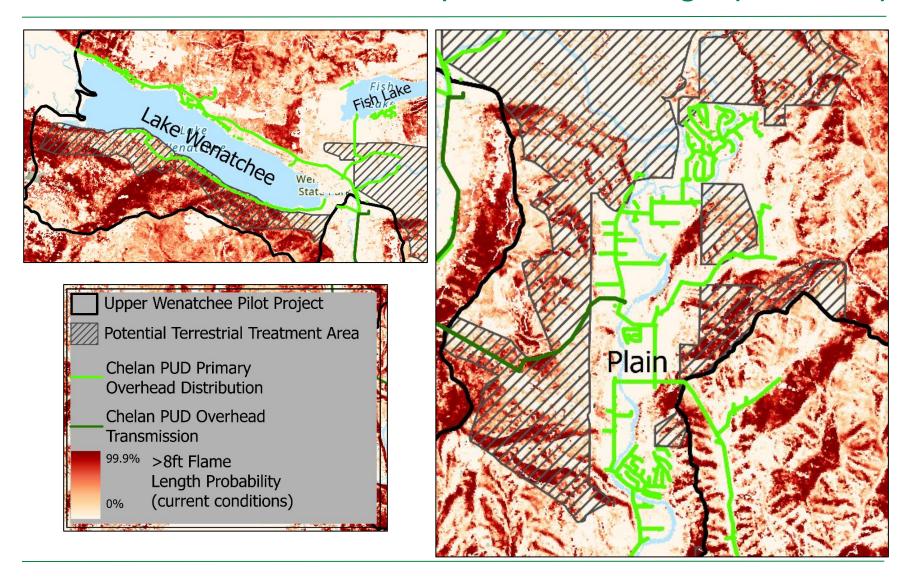
Current conditions: Annual expected flame length probability



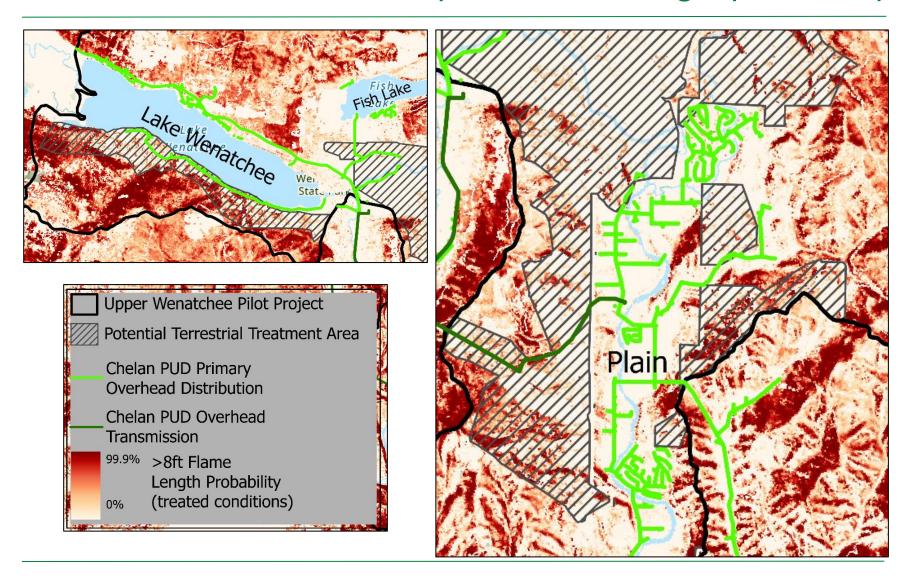
Treated conditions: Annual expected flame length probability



Current conditions: Annual expected flame length probability

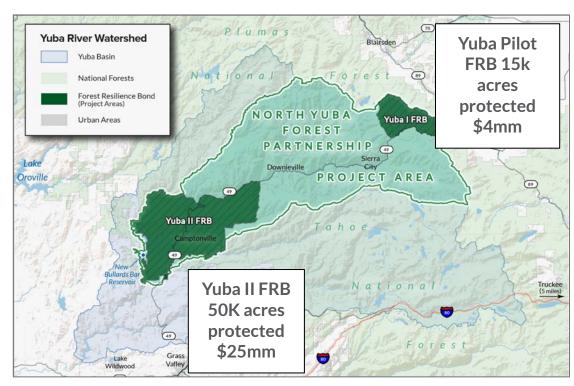


Treated conditions: Annual expected flame length probability



Example of success: Yuba Forest Resilience Bonds

- Activities include thinning, prescribed burning, meadow restoration, etc.
- Implementation partner is National Forest Foundation
- Beneficiaries include Yuba Water Agency, State of California, and – for Yuba II – private corporations
- Catalyzed the North Yuba Forest Partnership
- Has enabled biomass processing and workforce development



North Yuba River Watershed, Tahoe NF, California

Demonstrates pilot-to-scale model: Yuba Water's \$1.5M contribution leveraged 2x in FRB I and \$6M contribution leveraged 3x in FRB II





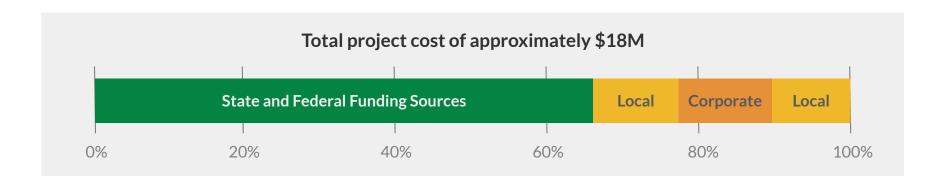
A path forward

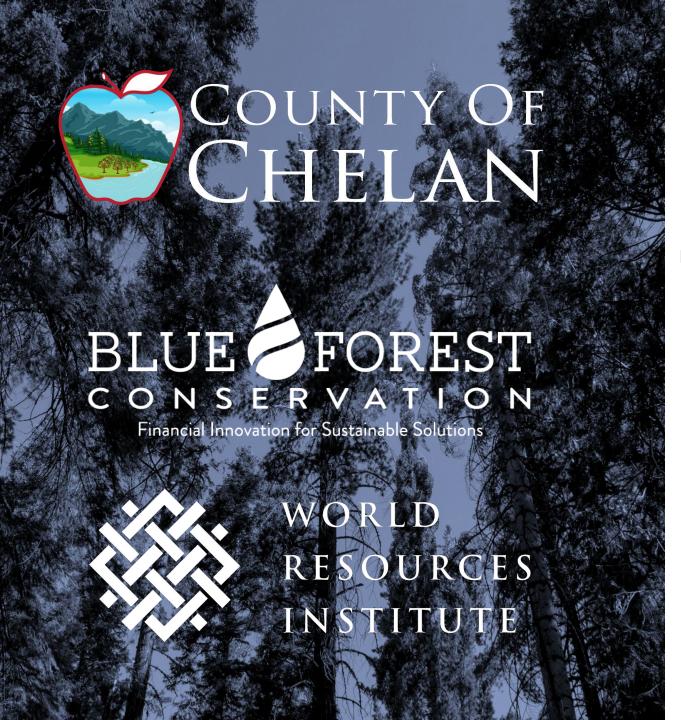
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