



About Blue Forest

Accelerating forest and watershed restoration through conservation finance

Our Areas of Expertise:

- Science: Quantifying the environmental and economic benefits of forest and watershed restoration
- **Finance:** Enabling beneficiary commitments to create a 0% line of credit for implementation organizations to alleviate the cashflow challenges associated with reimbursable grants
- Collaboration: Supporting community partnerships for long-term natural resource stewardship





Restoring resilience to forests

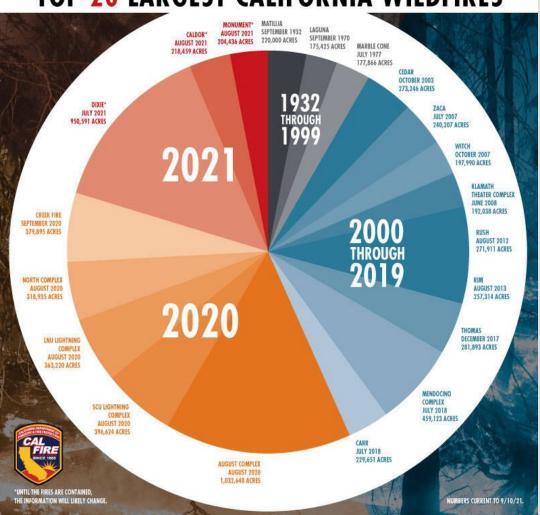
1890 1993







TOP 20 LARGEST CALIFORNIA WILDFIRES



> 50% of acres burned in large CA wildfires over the last 90 years burned in 2020-2022



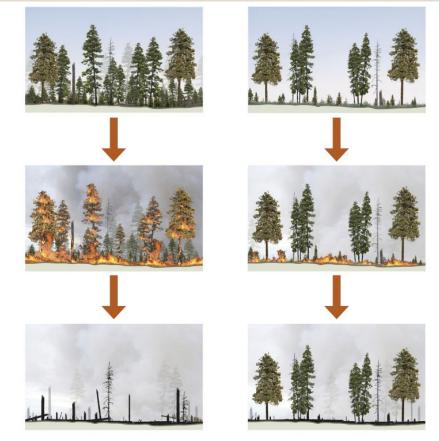
1926 - Old growth Ponderosa pine stand between Beaver and East Panther Creek in Amador County.

Forest Restoration as a Solution





Background and Motivation





Background and Motivation





AFTERMATH OF THE BOOTLEG FIRE Ecological Forest Restoration in Action: Aerial photography shows how different treatments moderated the impact of Oregon's 2021 Bootleg Wildfire. © Steve Rondeau, Klamath Tribe

Goals of Conservation Finance



Larger Projects

Non-traditional funding sources → landscape-scale projects



Faster Projects

Streamline project management and contractor payments → quicker implementation



Capacity Building

Promote partnership opportunities, build local capacity, and leverage funds





Extending Infrastructure Finance to Nature



Transportatio n Bonds



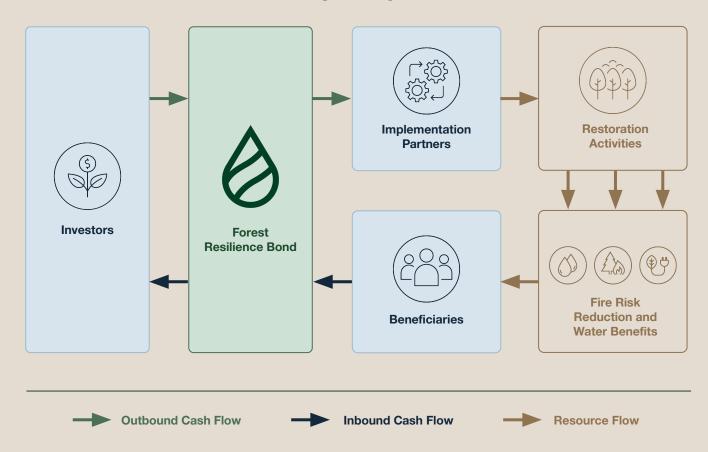
Power Infrastructure



Water Treatment

Financing natural infrastructure can resource ecosystem projects with long-term benefits

The Forest Resilience Bond (FRB)





What Generates the Return?

Beneficiary payment

Land manager Beneficiary payment Beneficiary grant Sources of contributions agreements agreements funds into FRB Conservation FRB project Planning and execution of restoration activities finance costs costs Grants to Fees and Revolving loans to Implementation Partner; then Uses of funds financing Investor principal repayment Partner out of FRB costs



Connecting Capital to Conservation



Evaluation of Benefits

Agreements & Contracts

Financial Vehicle

Ecosystem Services







Benefits



Quantifies benefits to stakeholders



Monetizes benefits as payments



Payments to investor returns

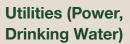
Investor Capital



Immense capital for projects

Who Are the Beneficiaries, What Are Their Motives?





Protected infrastructure through decreased wildfire risk, increased water supply, aquatic habitat obligations



Corporations

Community resilience, improved water supply, community engagement/ public relations, carbon benefits, Corporate Social Responsibility (CSR)



Tourism & Rec Operators

Fish and wildlife habitat, reduced risk to assets, decreased evacuation risk, decreased risk of revenue loss



Local Ag
Organizations

Improved crop quality and reliability through decreased wildfire risk, increased water supply, improved water quality, community investment



Municipal or State Govs

Community protection,
Protected
Infrastructure, fish and
wildlife habitat and
resource protection,
watershed health



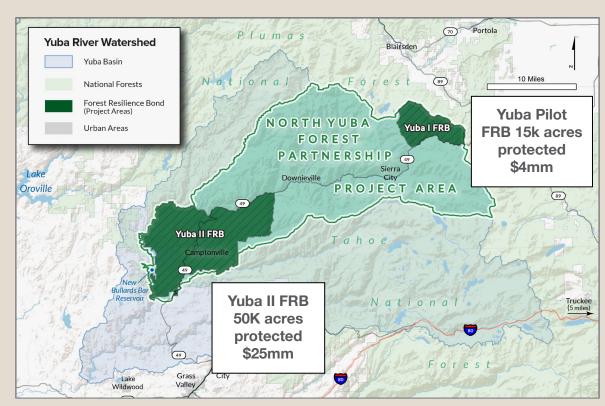
Project Case Study: Yuba I & II FRBs

Activities: Thinning, prescribed burning, meadow restoration, etc.

Implementer: National Forest Foundation

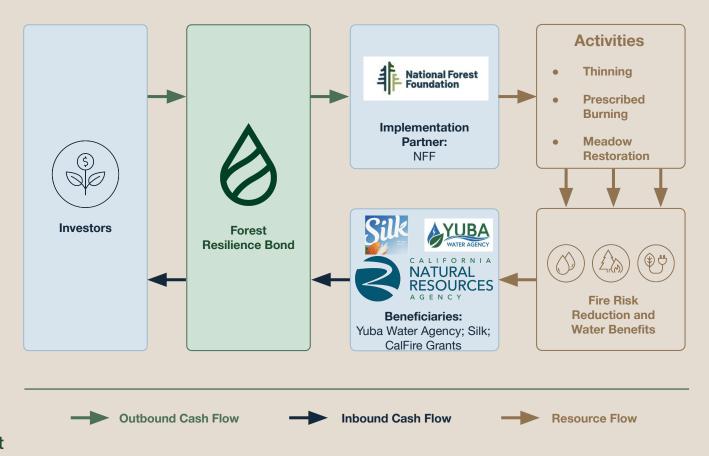
Beneficiaries: Yuba Water Agency, State of California, and – for Yuba II – private corporations

Impact: FRB development catalyzed formation of the North Yuba Forest Partnership and follow-on funding opportunities

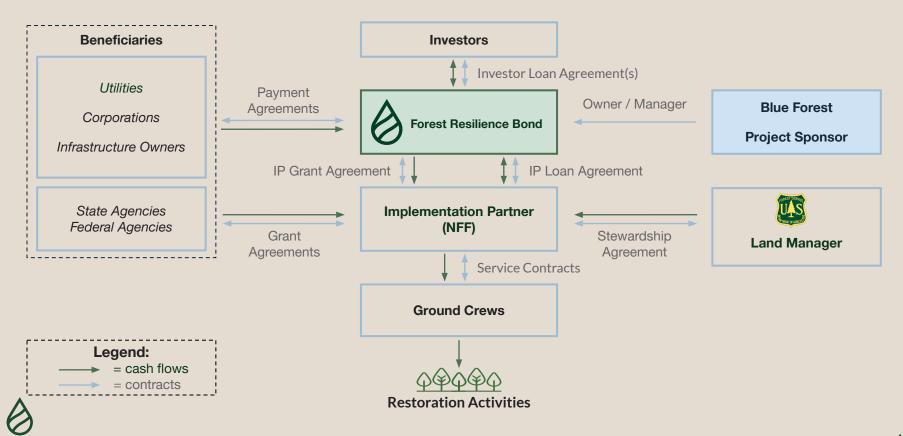


North Yuba River Watershed, Tahoe NF, California

The Forest Resilience Bond (FRB)



FRB Structure and Agreements



Yuba FRB Reflections

Successes

- ☐ Unlocked \$16M in beneficiary payments
- Scaled across 50,000 acres on the Tahoe NF and provided modeling for other projects
- Formation of the North Yuba Forest Partnership
- Increased pace to half the projected project timeline

Challenges

- Mill constraints and competition with salvage logging in CA
- Building partnerships, buy-in, and trust takes time
- ☐ Funding gaps for permitting, planning, and pre-implementation work

Lessons Learned

- Building implementation capacity is essential to scaling treatments
- Long-term contracts can support capacity building opportunities for implementation partners
- Project champions and collaborative working processes are critical



Exploring pilot FRBs in Plumas & Lassen NF

Three pilots:

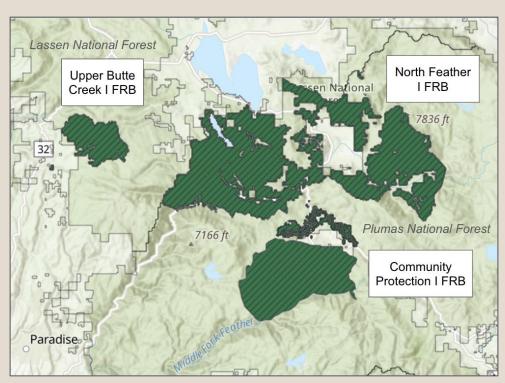
- North Feather I FRB
- Community Protection I FRB
- Upper Butte Creek I FRB

Watersheds: Feather River & Butte Creek

Implementer: Sierra Institute and others

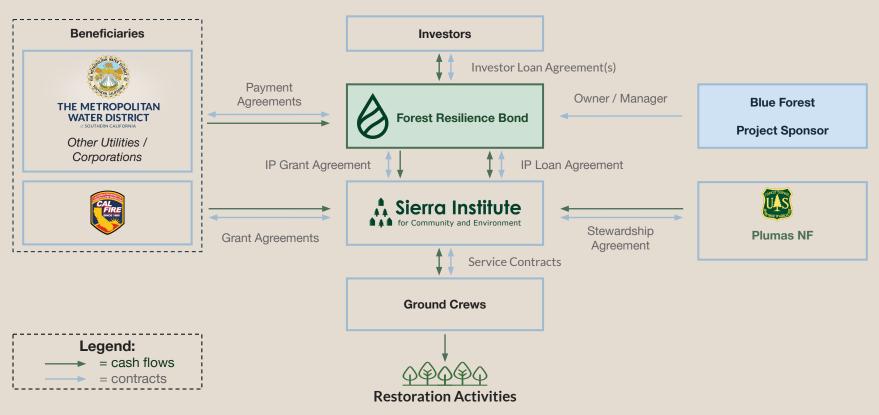
Beneficiaries: Metropolitan District of Southern California, State of California, and others

Activities: prescribed fire, thinning, reforestation, invasive species management, hydrological improvements, trail development



USFS project areas being considered for pilot FRB footprints within the Plumas and Lassen National Forests

FRB Structure and Agreements



Blue Forest

Benefits of the FRB



Closes funding gaps for implementation by blending public and private funding



Unlocks financing to increase the pace of implementation



Promotes collaboration and new partnerships for long-term landscape resilience



Communicates impact through monitoring and impact reporting





FRB Projects in the Western U.S.



State	Project	Implementation Partner
WA	Okanogan Wenatchee – Upper Wenatchee I FRB	Chelan County
OR	Rogue River-Siskiyou - Rogue Valley I FRB	Lomakatsi Restoration Project
CA	Lassen - Upper Butte Creek	Sierra Institute
CA	Plumas - Community Protection	Sierra Institute
CA	Plumas - North Fork	Sierra Institute
CA	Tahoe - Yuba I FRB	National Forest Foundation
CA	Tahoe - Yuba II FRB	National Forest Foundation
CA	Eldorado - Crystal Basin	Great Basin Institute
CA	Eldorado - Upper Mokelumne I	Upper Mokelumne River Watershed
	FRB	Authority
CA	Inyo - Mammoth Lakes	The Whitebark Institute
CA	San Bernardino - N. Big Bear	National Forest Foundation

Thank you for your time

If you'd like more information, please get in touch.

Email nick@blueforest.org

Call 916-234-3690





Key Benefits of Ecosystem Restoration



01 BIODIVERSITY

Resilient ecosystems are characterized by varied species compositions and structure across a landscape.



04 RECREATION

Healthy ecosystems support numerous outdoor recreation activities.



07 COMMUNITY RESILIENCE

Resilient ecosystem forests protect communities from the impact of high-severity, catastrophic wildfires.



02 WILDFIRE RISK REDUCTION

Resilient forests are at decreased risk of high severity fire, protecting ecosystems, communities, and infrastructure from harm.



05 WATER SECURITY

Resilient forests and ecosystems maintain clean and abundant water for human consumption, irrigation, industry, and power generation.



08 ECONOMIC DEVELOPMENT

Restoration and maintenance of resilient forests and other ecosystems create jobs and supports businesses through project implementation and wood products manufacturing.



03 HABITAT PROTECTION

Healthy ecosystems provide key habitats for a diverse range of animal species.



06 CARBON STABILITY

Resilient forest ecosystems are less susceptible to high severity fire, reducing the emission of carbon stored in trees during a wildfire.



09 PUBLIC HEALTH

Resilient forests and other ecosystems protect multiple aspects of public health, including reducing smoke exposure by lowering the risk of severe wildfire and protecting water quality.



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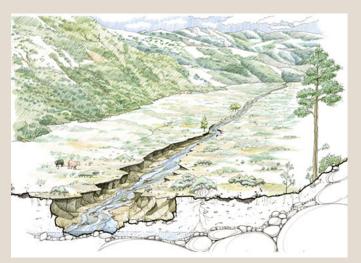


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Evaluation of Benefits Example







Meadow
Degradation and Restoration

Yuba I Project Expected Benefits and Beneficiaries

- Protect 50k acre-feet of water
- Protect 70k MWh of hydropower
- Avoid 50k metric tons of CO₂ emissions
- Sustain 79 jobs in local communities
- Identified \$8.8M in economic value





What is the Forest Resilience Bond (FRB)?

The Forest Resilience
Bond is an innovative
public-private
partnership that
deploys private capital
to ease cash flows and
add new revenue
streams to fund
restoration work.

