



BURNBOT

Presented to:

Southern California Water Dialogue Meeting

25 September 2024



BurnBot

Founded in 2022 with a mission to mitigate destructive wildfires



Services

Comprehensive fuels management solutions tailored to diverse landscapes

- RX2 Controlled Blackline
- Remote Mastication Teams
- Forestry and Logging Services



Background

Founded by Dr. Waleed S. Haddad, and Dr. Anukool Lakhina in 2022.



Company's Mission

We are committed to safeguarding forests and communities by blending technology with time honored forestry practices. Through collaborative partnerships, we strive to create a resilient, fire-adapted future.



Vision Statement

A world where technology and tradition unite to make destructive wildfires a rarity, empowering communities and nurturing fire-resilient landscapes.



Our Focus

- Emphasis on sustainable practices in wildfire prevention
- Strong focus on workforce development
- Committed to creating safer, more resilient communities
- Collaborative approach, working with local, state and federal agencies
- The Right Tool, The Right Time, The Right Acre



Locations

Strategically located throughout the Western United States:

- **HQ:** South San Francisco
- **CA:** Placerville, Redding, San Bernardino
- **NV:** Reno
- **OR:** Medford



BurnBot's Approach to Fuels Reduction

Our Commitment

Balancing wildfire prevention with ecological preservation for safer, healthier landscapes.

LIGHT ON THE LAND METHODOLOGY

- Minimizes ecological impact
- Preserves soil health and native vegetation
- Reduces erosion control and habitat disruption
- Maintains natural landscape aesthetics



EMBRACING "GOOD FIRE"

- Promotes native species growth
- Helps control invasive species
- Improves habitat for wildlife
- Stimulates germination for fire-adapted species
- Helps control certain pests and diseases
- Can increase water yield in watershed by reducing overall vegetation density
- Promotes a more natural carbon cycle



FUSING TRADITION WITH TECHNOLOGY

- Increased efficiency allowing the treatment of more acres
- Optimize treatments and minimize collateral impacts to non-targeted areas
- Improved Safety
- Reduce costs by more efficient resource allocation
- Better data collection and analysis for long-term planning
- Adaptability to diverse and custom landscapes
- The Right Tool, The Right Time, The Right Acre



Reducing Wildfire Risk

Residence
Half Moon Bay, CA



Before



After

A 3-acre fuel break as a buffer for structures in direction of wind on steep slopes.

Homeowners Association
Placerville, CA



10-acre fire buffer “virtually eliminates” fire risk, while creating a shelter island for fire crews.

Commercial Winery
Sonoma, CA



95-acre treatment, removing fire debris, **reducing losses to once every 100 years.**



Why Fuels Management is Crucial for Landowners

Property Protection & Personal Safety

- Reduces risk of property damage or loss from wildfires
- Helps maintain or increase property value
- Creates defensible space around structures
- Improves evacuation potential in case of wildfires

Insurance Benefits

- May lower insurance premiums or improve insurability
- Some insurers require fuels management for coverage in high-risk areas

Long-term Cost savings

- Prevention is often less costly than post-fire restoration
- Reduces potential for erosion and other post-fire problems
- Helps avoid potential fines or legal issues

Community Responsibility

- Reduces fire risk for neighboring properties and the broader community
- Demonstrates good land stewardship

Ecosystem Health

- Promotes healthier, more resilient forests and landscapes
- Supports biodiversity and wildlife habitats
- Potential for sustainable timber harvesting or other forest products
- May increase land productivity for agriculture and grazing
- Helps landscapes adapt to changing climate conditions
- Reduces vulnerability to increasingly severe wildfire seasons



All-in-One Fuels Management Partner

BurnBot brings the right tool for the right acres at the right time to treat fuels



Remote-Operated Masticators

Precision mulching & mastication. 55-degree slope, up to 10" dbh, rubber tracks, low decibel, lightweight with minimal ground disturbance.



Controlled Burning RX Machines

Ground-based precision burning with minimal smoke; 6' tall flashy fine fuels, 5' wide blacklines in single pass, up to 30-degree slopes, 22" ground clearance



Skilled Technicians

Wildland firefighters, with fire & fuels expertise, trained on our technology stack

