

# STEEP TERRAIN HAZARDOUS FUELS TREATMENT DEMONSTRATION



California Forest Biomass Work Group

April 18, 2018

Tad Mason, CEO, TSS Consultants

# Presentation Overview

- Value Proposition
- Project Sponsors and Partners
- Target Audience
- Equipment and Techniques
- Impact Monitoring
- Communication and Outreach
- Project Schedule



# Value Proposition

- **Conduct a five day fuels treatment demonstration on steep terrain in Northern California.**
- **Raise awareness among stakeholders about fuels treatment technologies and techniques, how they have evolved, and how they can be deployed across diverse topography.**
- **Targeted locations for the demonstration:**
  - **On steep terrain**
  - **Near major media market**
  - **Near key target audience (including agencies and legislative staff)**

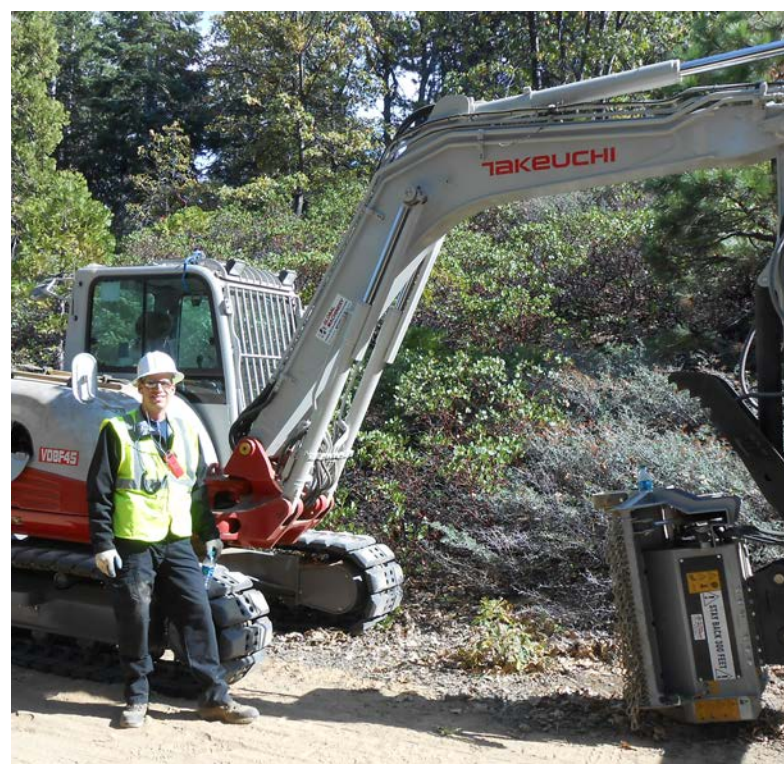
# Project Sponsors and Project Partners

- **Sponsors:**
  - **USDA Forest Service (State and Private Forestry)**
  - **Cal Fire (Forest Stewardship Program)**
- **Partners:**
  - **The Watershed Training and Research Center**
  - **Eldorado NF**
  - **Sierra Pacific Industries**
  - **The Nature Conservancy**
  - **California Forestry Assoc**
  - **UC Cooperative Extension**
  - **Natural Resources Conservation Service**



# Implementation Team

- **Tad Mason**, Project Manger, TSS
- **Martin Twer**, Impact Monitoring, The Watershed Center
- **Rick Satomi**, Outreach, Online Content, UC Cooperative Extension
- **Larry Swan**, Guidance, Moral Support, R5, USFS

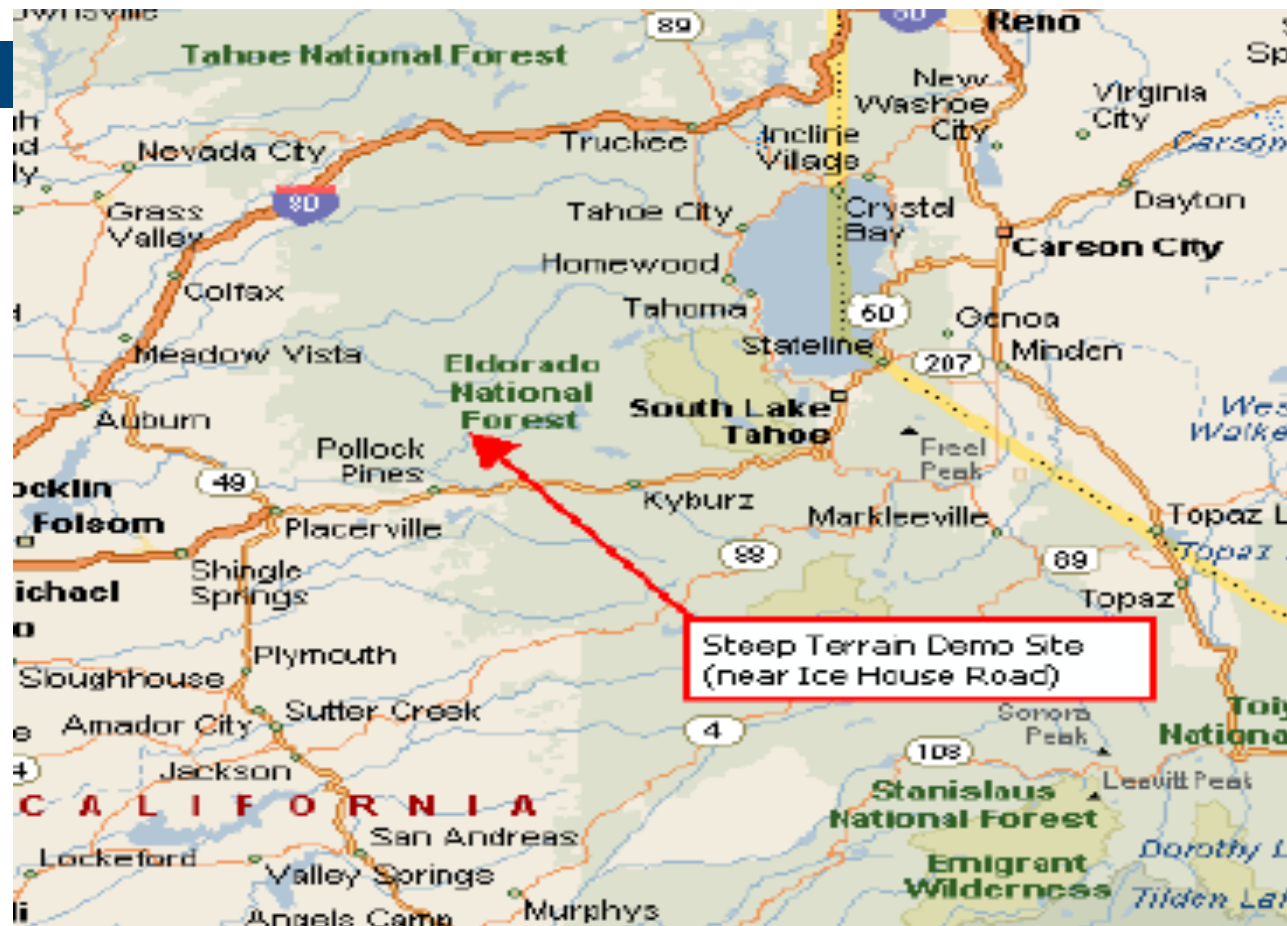


# Communications Team

- **Jennifer Chapman**, Eldorado NF
- **Mark Luster**, Sierra Pacific Industries
- **Heather Williams**, CAL FIRE
- **Scott McLean**, CAL FIRE



# Project Site



# Target Audience

- **Fire Safe Councils**
- **Fire agencies**
- **Fuels treatment contractors, foresters, resource managers**
- **Media (all types)**
- **Electric utilities**
- **Fire Districts**
- **Local Tribes**
- **Agencies**
- **NGO's, conservation community**
- **Homeowner associations**
- **County and city planners**
- **Others**





# Equipment and Techniques

- **Conventional equipment and techniques**
- **Innovative equipment and techniques**
- **All equipment capable of operating safely on steep terrain (30%+ slope conditions)**



# Skid steer Systems



# Excavator Systems



# Impact Monitoring

- **Working closely with the Watershed Research and Training Center and UC Coop Extension to set up monitoring protocols:**
  - **Soils Impacts**
  - **Economic analysis (cost per hour and per acre)**



# Communication and Outreach

- **Work closely with Eldorado NF, Cal Fire, Sierra Pacific Industries and UC Extension to:**
  - Generate a target audience database
  - Produce a Communications Plan for targeted outreach to local audiences and media.



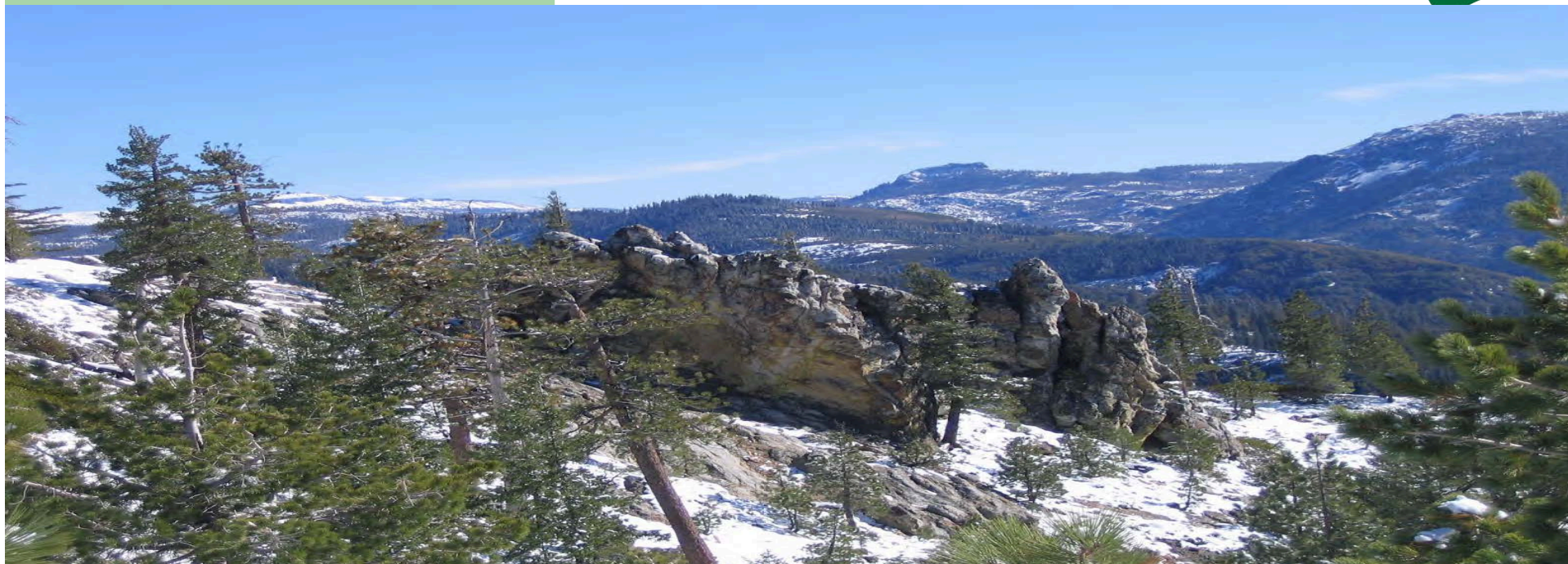
# Project Schedule

TASK	START	FINISH
Equipment Supplier/Manufacturer Interface	October 2017	March 2018
Communications Plan	October 2017	June 2018
Pre-Demo Site Conditions Assessment	March 2018	June 2018
Demo Implementation (including equip monitoring)	June 5, 2018	June 9, 2018
Demo Days (Target Audience Participation)	June 8, 2018	June 9, 2018
Post-Demo Site Conditions Assessment	June, 2018	September 2018
Draft Final Report	June 2018	October 2018
Acceptance of Final Report	October 2018	October 2018
Final Report and Dissemination of Results	October 2018	November 2018

## Past Reports

- **Reports generated by TSS that may be of interest:**
  - **2016 Hazardous Fuels Reduction Demo (Central and Southern CA)**
  - **2012 Forest Biomass Transport and Value-Added Market Optimization for the Upper Feather River Watershed Economic Analysis**
  - **2011 Emissions Reduction From Woody Biomass Waste Utilization for Energy as an Alternative to Open Burning**





Tad Mason, CEO, TSS Consultants  
Sacramento, California  
916.600.4174  
[tmason@tssconsultants.com](mailto:tmason@tssconsultants.com)

Past Reports:

<http://tssconsultants.com/reports-papers/>