

Wildfire Mitigation Advisory Committee Meeting

March 21, 2023

CAL FIRE -

Office of the State Fire Marshal





Call to Order

Welcome!

- ► If you have technical difficulties during this meeting, please contact Kara Garrett at:
 - (916) 201-5539 or Kara.Garrett@fire.ca.gov





- The Acting State Fire Marshal
 - Daniel Berlant
- Department of Forestry and Fire Protection
 - Curtis Brown
- ► Department of Conservation
 - Keali'i Bright
- ► Office of Energy Infrastructure Safety
 - Caroline Thomas Jacobs or Sandy Cooney
- ► State Board of Forestry and Fire Protection
 - J. Lopez





- Governor's Office of Emergency Services
 - Ryan Buras or Robert Troy
- ► California Department of Insurance
 - Deborah Halberstadt or Mike Peterson
- ► Governor's Office of Planning and Research
 - Neil Matouka
- California Fire Safe Council
 - Jacy Hyde
- ► Insurance Institute for Business & Home Safety
 - Roy Wright

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- California Fire Chiefs Association
 - Dave Winnacker or Todd Lando
- California Building Industry Association
 - Christopher E. Ochoa or Nick Cammarota
- ► University of California Cooperative Extension
 - Lenya N. Quinn-Davidson
- ► California Fire Science Consortium
 - Yana Valachovic
- ► Department of Housing and Community Development
 - Maziar Movassaghi or Clay Kerchof

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- ► Rural County Representatives of California
 - Staci Heaton
- California Association of Resource Conservation Districts
 - Sophia Lemmo
- ► League of California Cities
 - Sean McGlynn
- California State Association of Counties
 - Catherine Freeman
- ► A representative from tribal government
 - Don Hankins



Approval of Past Meeting Minutes Motion Required

Scan the QR Code Below to Access the Complete Meeting Minutes Document!



WILDFIRE MITIGATION ADVISORY COMMITTEE MEETING Meeting Minutes - Tuesday, February 21, 2023 Posted: 3/10/2023



Daniel Berlant

Committee Members Present

Daniel Berlant, Office of the State Fire Marshal Curtis Brown, Department of Forestry and Fire Protection (Virtual) Caroline Thomas Jacobs, Office of Energy Infrastructure Safety J. Lopez, State Board of Forestry and Fire Protection Robert Troy, California Office of Emergency Services (Virtual) Michael Maguire, Office of Planning and Research (Virtual) Roy Wright, Insurance Institute for Business & Home Safety Dave Winnacker, California Fire Chiefs Association (Virtual) Christopher Ochoa, Representative from the Building Industry Clay Kerchof, Department of Housing and Community Development (Virtual) Staci Heaton, Rural County Representatives of California Sophia Lemmo, California Association of Resource Conservation Districts (Virtual) Sean McGlynn, League of California Cities Catherine Freeman, California State Association of Counties Don Hankins, Professor, CSU Chico (Virtual)

Members Absent

Keali'i Bright, Department of Conservation California Department of Insurance Jessica Martinez, California Fire Safe Council Lenya N. Quinn-Davidson, University of California Cooperative Extension (Virtual) Yana Valachovic, California Fire Science Consortium (Virtual)

CAL FIRE Staff in Attendance Wendy Collins, Assistant State Fire Marshal (Virtual) Matt Damon, Staff Chief John Morgan, Deputy Chief (Virtual) Scott Witt, Deputy Chief Andrew Henning, Assistant Deputy Director Jaemie Allen, Administrative Assistant II Daniel Bluford, Staff Services Analyst Kara Garrett, Associate Governmental Program Analyst Chris Keithley, Assistant Deputy Director - Fire & Resource Assessment (Virtual) Jamie Sammut, Staff Counsel (Virtual) Steve Hawks, Retired Annuitant (Virtual) Tony Andersen, Deputy Director (Virtual) Josh Mott, Information Officer I (Virtual)

1. CALL TO ORDER 1:00 PM

A. Welcome

The meeting was called to order at 1:00 PM by Daniel Berlant



Approval of Meeting Agenda Motion Required

Scan the QR Code Below to Access the Complete Meeting Agenda Document!



WILDFIRE MITIGATION ADVISORY COMMITTEE MEETING Meeting Agenda – Tuesday, March 21, 2023, 1:00 PM – 3:00 PM Posted March 07, 2023



Location:

CNRA Building, 715 P Street, 2nd Floor Conference Room 2-310 Sacramento, CA 95814

Zoom Meeting Information -

Please click the link below to join the webinar:

https://us06web.zoom.us/i/85192423489?pwd=dnZYaUhXVFliUTFmT21nMzJYYVIxQT09

Passcode: 462073

1. CALL TO ORDER

- A. Welcome
- B. Roll Call/Quorum Established
- C. Approval of Past Meeting Minutes (Motion Required)
- D. Agenda Review (Motion Required)

2. OLD BUSINESS

- A. Risk Modeling
 - 1) Work Group Update
- B. Division Report

3. NEW BUSINESS

- A. Caltrans Roadway Vegetation Presentation.
- B. ALERTCalifornia Detection Cameras Presentation.
- 4. ROUNDTABLE
- 5. PUBLIC COMMENT

6. UPCOMING MEETING DATES FOR 2023

- A. Third Tuesday of each month starting at 1 PM and ending at 3 PM.
- April 18, 2023, we will be in a different conference room, same building.
 - CNRA Building, 715 P Street, 2nd Floor Conference Room 2-221 (A) Sacramento, CA 95814

7. MEETING ADJOURNMENT (Motion Required)





Risk Modeling Advisory Workgroup Update

- ► More information will be shared as the workgroup moves forward.
- Contacts for the workgroup are listed below:
 - Jim McDougald
 - Jim.McDougald@fire.ca.gov
 - Celeste Jovanovic
 - Celeste.Jovanovic@fire.ca.gov





Wildfire Preparedness

2022 Fire Prevention Efforts (July 2022 - Mar 21, 2023)

Defensible Space Inspections:

- 175,933 inspections, 70.37% of the goal
- Approximately 35,000 ahead of this time last fiscal year
- Program has inspected over 18,400 properties since the new year started.

Burn Permits:

 New burn permit application launched - Over 11,000 permits have been issued since January 3rd.



Wildfire Planning and Statistics

2022 Fire Prevention Efforts (July 2022 - Feb 28, 2023)

- ► Fuel Reduction Projects:
 - 403 projects, 80.6% of the goal
- Combined Fuel Reduction:
 - 37,168.4 acres treated, 37.2% of the goal
 - Unit Projects 23,468.1 acres
 - Grant Projects 13,700.4 acres
- Prescribed Fire (also counted in fuel reduction):
 - 17,491.0 acres treated, 35.00% of the goal

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Wildfire Planning and Statistics

Pre-Fire Plan (Fire Plan)

► Reminders:

- Staff held the pre-fire workshop the week of March 6, 2023
- Public comment period for SRA FHSZ ends April 4, 2023.
- Will begin mapping Local Responsibility Area, following the conclusion of the SRA process.



Community Wildfire Mitigation Assistance

Land Use Planner Training

► Land Use planner training in the Wildland Urban Interface classes continue with the Community Wildfire Planning Center (CWPC).

► Target audience is local planners, fire marshals and building officials as well as consultants and other interested stakeholders.

► Focuses on relationship building, basic fire behavior and building and planning concepts and regulations.

▶ Will be held through April 2023.

More information:

https://www.communitywildfire.org/



Community Wildfire Mitigation Assistance

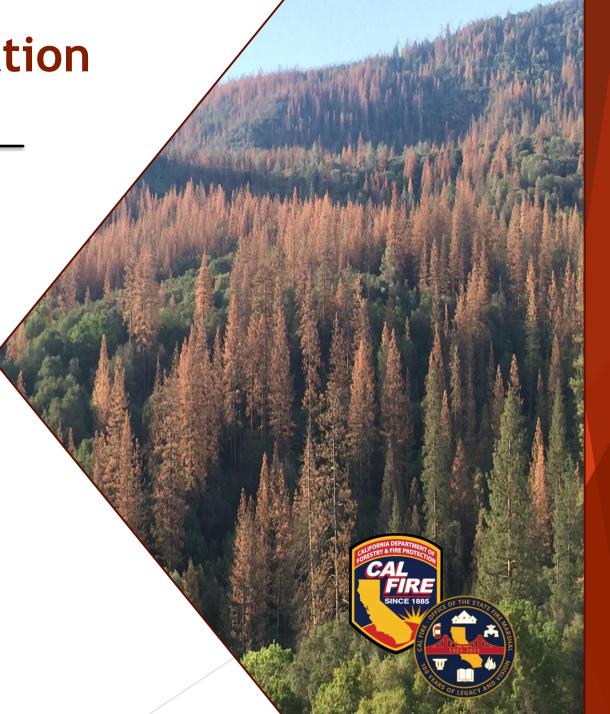
Subdivision Review (SDR)

Program staff have completed over 1300 surveys and have been forwarded to the Board of Forestry and Fire Protection for approval.

► These surveys have been approved for release to the public.

Firewise

► California continues to lead the nation with 661 National Fire Protection Association (NFPA) Firewise USA Communities in good standing, equating to over 25% of all NFPA Firewise USA Communities nationwide.



Community Wildfire Mitigation Assistance

Wildfire Prevention Grants

► FY22-23 Wildfire Prevention grants solicitation is closed on March 15, 2023.

 Available total grant funding of \$115 million.

New for this solicitation, we offered virtual office hours to assist applicants with their grant applications.

► The virtual office hours were a huge success with around 100 participants at each Office Hour, and we will continue offering them in the future.

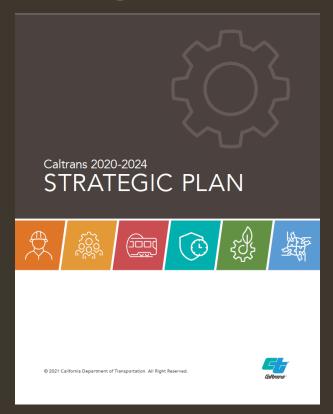


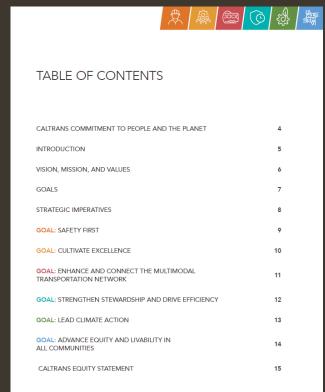


Caltrans Strategic Plan (2020-2024)



- Vision A brighter future for all through a world-class transportation network.
- **Mission** Provide a safe and reliable transportation network that serves all people and respects the environment.



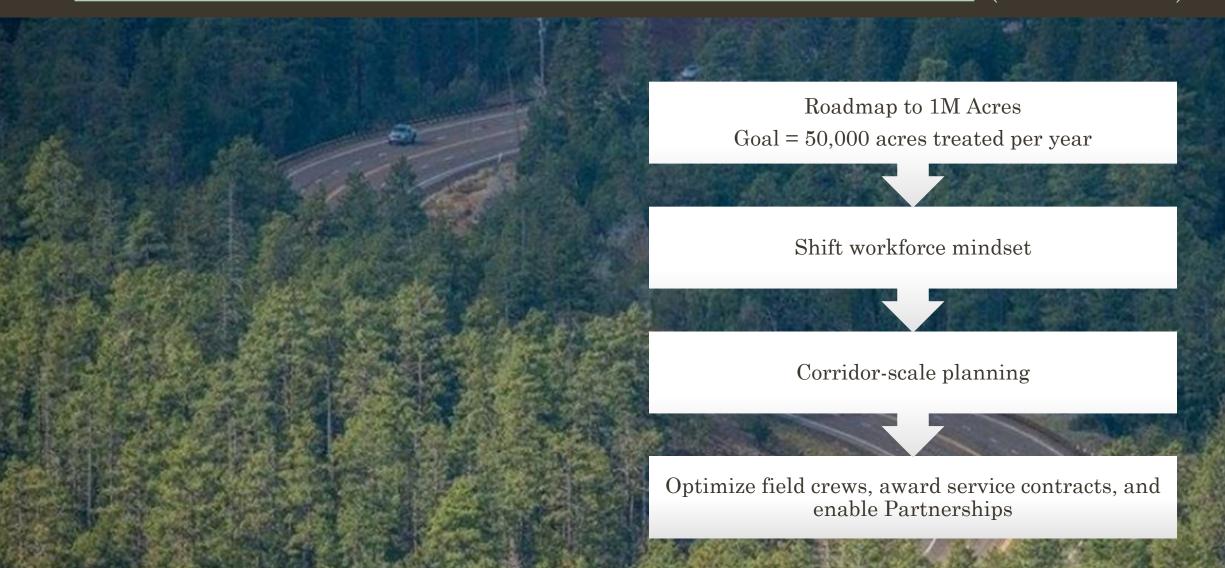


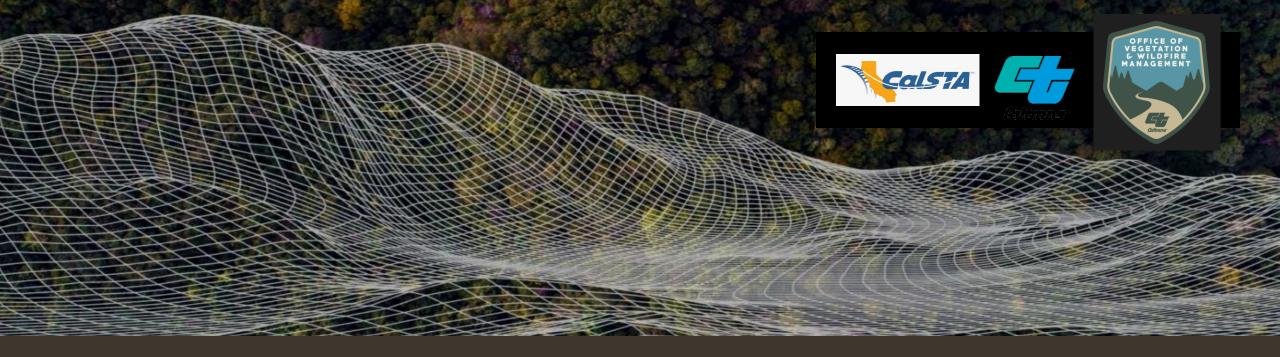
Caltrans Commitment to People and the Planet

"Our energies will be focused on actions woven throughout our Strategic Plan to promote sustainability and equity...."



California Wildfire and Forest Resilient Action Plan (2021-2025)





GOAL 1 Increase Pace and Scale of Projects

Resilient State Lands Working Group

• Action 1.17 Develop a State Lands Joint Strategy

Looking Forward: How to Sign-up for Planscape? Hand-on training to utilize Regional Resource Toolkits

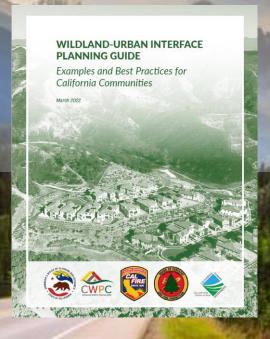
<u>Partnership:</u> Methodology discussion to establish baseline conditions for roadways that function as primary evacuation routes

Need: Share planning, environmental and implementation workflow and rolled-up costs for initial treatments and re-entry

GOAL 2 Strengthen Protection of Communities & Fire-Safe Roadways

Fire Adapted Communities (FAC) Working Group

- 2.25 Develop Framework for Winter Workshops
- 2.26 Assist Counties with General Plans
- 2.27 Expand Highway Treatments
- 2.28 Develop GNA with USFS R5
- 2.29 Expand Messaging Campaign with CALFIRE



Fire Hazard Planning Technical Advisory

GENERAL PLAN TECHNICAL ADVICE SERIES

2022 Update Finalized – August 21



<u>Looking Forward:</u> Expand messaging campaign with CALFIRE describing benefit of public infrastructure fuel reduction projects

Partnership: 2022 Winter Workshops

Need: Better understand how to apply the FAC guidance to linear roadways

Need: Corridor-scale fire behavior information and *prescriptions* (Foresters/Local PFE) to reduce ignition probability from vehicle use

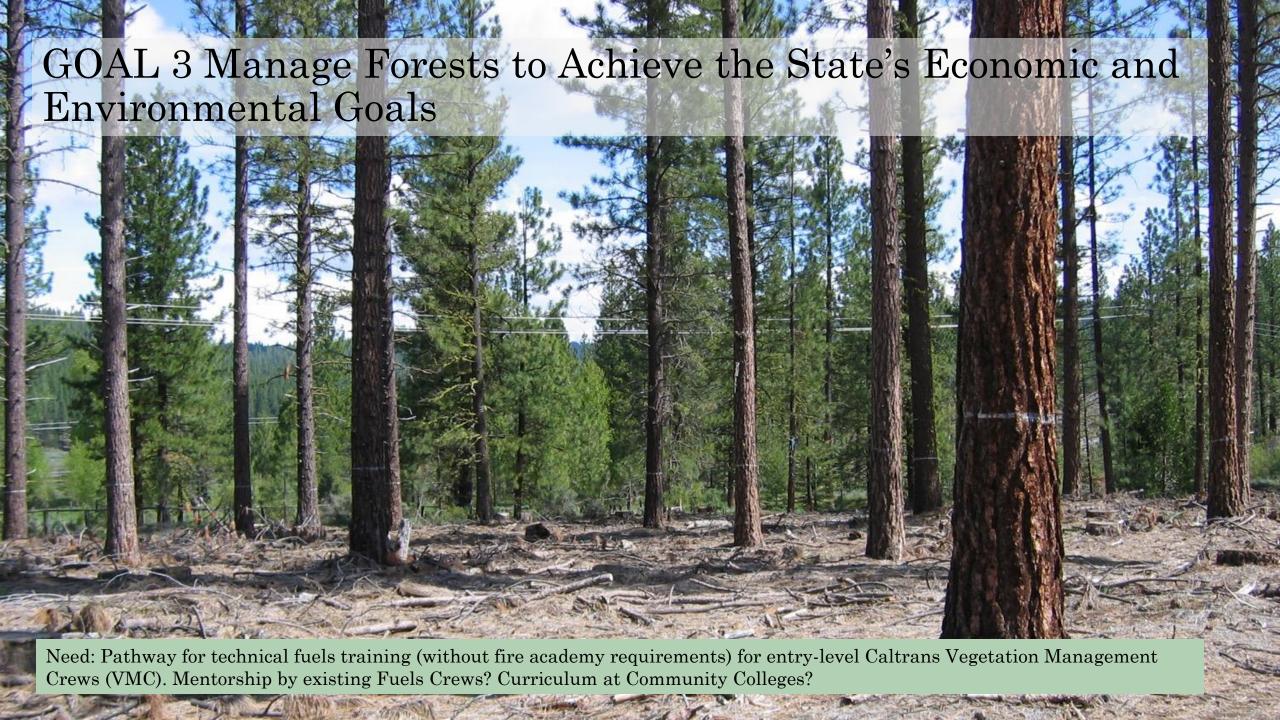
National Forest National District 1 District 2 Lassen Nationa Forest 929 Glenn _{vo} (68%) District 4

District 1 Priorities

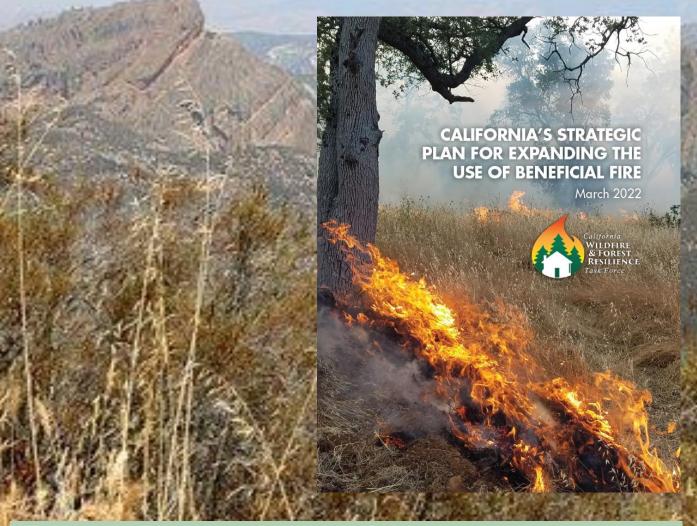
Total Highways: 17					
Total Segments: 118					
Total Priority Centerline Miles: 621 mi					
District Average Weighted Score: 76					
Counties Impacted: Del Norte, Humboldt, Lake, Mendocino					
Routes	Miles	Weighted Score	0-9.9, 57.7-59.8, 63.2-66.3, 79.3-105.6		
SR-1	40	73	0-9.9, 57.7-59.8, 65.2-66.5, 79.5-105.6		
SR-128	27	73	18-40.3, 41.1-50.9		
SR-162	28	75	27-59.3		
SR-169	23	77	0-3.5, 13.2-33.84		
SR-175	20	73	8.3-28		
SR-197	7	75	0-7.1		
SR-20	37	75	0.8-32.6, 30.8-37.7, 38-46.5, 42.3-44.1		
SR-254	32	77	0-46.5		
SR-271	13	78	0-16.4, 17-22.7		
SR-281	3	70	14-17		
SR-299	36	75	6.2-43		
SR-36	36	76	9.3-45.7		
SR-96	32	72	0-8.7, 0-33.8		
US-101	246	87	3.4-26.2, 26.7-31.7, 59.6-106.7, 91.2-106.7, 26.9-90.5, 0.4-2.6, 61.9-74.7, 97.4-137.4, 89.6-96.8, 0.2-21.9		
US-199	35	90	0-36.3		
Coastal routes in the northwest corner in the state of California are as high of a risk even though rainfall					

Coastal routes in the northwest corner in the state of California are as high of a risk even though rainfa amount are the greatest compared to other counties throughout the state.

Summary Fuel Reduction Service Contract #1 ACCOUNTING						
AP09-Open	as of 03-09-2023					
		Procurement Type	Contract ID	Contract Award	Progress	Status
District	Legal Name					
01	CTL FOREST MANAGEMENT	Service Contract	01A6156	3,590,005.75	D1 completed, disencumbered the remaining funds \$2,492.25	Ø
02	KINGSBOROUGH ATLAS TREE SURGERY INC	Service Contract	02A2068	1,917,650.00	D2 no field work started due to snow cover	
 						
03	P31 ENTERPRISES INC	Service Contract	03A3340	2,305,261.60	D3 in progress On 12/14/2022 CT was reduced by \$500,000.00	
<u>,,</u>	THE PROFESSIONAL TREE CARS OF	Samina C. I. i	5/40/00	/ 075 7/0 00	04:	
04	THE PROFESSIONAL TREE CARE CO	Service Contract	56A0698	6,975,760.00	D4 in progress	
05	ASOMEO ENVIRONMENTAL RESTORATION INDUSTRY LLC	Service Contract	05A2406	4,104,657.00	D5 in progress	
				1,101,001.100	50 m progress	
06	KINGSBOROUGH ATLAS TREE SURGERY INC	Service Contract	06A2782	2,037,825.00	CT terminated as of 01/20/2023 Invoice paid on 03/07/2023. District to disencumber the funds.	
07	BAY AREA TREE SPECIALIST	Service Contract	07A5347	630,050.00	D7 in progress	
07	BAY AREA TREE SPECIALIST	Service Contract	07A5512	594,250.00	D7 no field work started due to winter flooding	
08	COMMUNITY TREE SERVICE	Service Contract	08A3462	3,299,646.00	D8 in progress	
09	PARK PLACE BUSINESS INC	Service Contract	09A0900	2,376,908.05	D9 in progress	
10	SIERRA MOUNTAIN CONSTRUCTION INC	Service Contract	10A2338	3,107,688.00	D10 completed, disencumbered the remaining funds \$672.00	Ø
11	UTILITY TREE SERVICE INC	Service Contract	11A3419	2,677,739.75	D11 completed, disencumbered the remaining funds \$331,600.25.	0
12	CTL FOREST MANAGEMENT	Service Contract	12A2006	1,243,750.00	D12 in progress	
			_			
				34,861,191.15		



2021 Pilot Calendar Year Activities and Categories within the Task Force Tracking System



<u>Partnership</u>: Encourage more beneficial fire treatments in grasslands along state highways (Encroachment Permits) by qualified partner agencies to reduce unwanted invasive plant & weed growth, which will assist Caltrans in meeting herbicide reduction goals (SPM) and provide a co-benefit of expanding statewide prescribed fire targets on public lands.

Task Force System Categories	CNRA	CalMAPPER	CalTrans	USFS	DOI
Forest Health/Fuels Reduction	✓	✓	✓	✓	<u>~</u>
Mechanical & Hand Fuels Reduction	✓	✓	✓	✓	<u> </u>
Prescribed Grazing	✓	✓	<u> </u>	Some	✓
Sanitation & Salvage	✓	✓	✓	✓	
Timber Harvest	✓	✓	✓	✓	
Beneficial Fire	✓	✓		✓	✓
Land Protection	✓	✓			
Tree Planting	✓	✓		✓	Some
Watershed & Habitat Improvement	✓				Some

5	Caltrans Veg				
Categories	Mgmt	2021 Acres			
Beneficial Fire					
Prescribed Grazing	✓	0			
Mechanical & Hand Fuels Reduction	~	~92,000			
Sanitation & Salvage	~	0			
Land Protection					
Timber Harvest	~	0			
Tree Planting					
Watershed & Habitat					
Total		~92,000			



IT TAKES



A VILLAGE

























technosylva























Cruzio



Wireless





InfoWest



























SAN MATEO COUNTY
COMMUNITY















KIZA...) Wireless















Water Power Sewer





















NSHE»SCS









ALERTCalifornia

Largest fires in California history **FIRE** YEAR **ACRES BURNED** 1 August Complex 2020 1m Counties affected: Mendocino, Humboldt, Trinity, Tehama, Glenn, Lake, Colusa 922.2k 2 Dixie 2021 Butte, Plumas, Lassen, Tehama 459.1k 3 Mendocino Complex 2018 Colusa, Lake, Mendocino, Glenn **4 SCU Lightning Complex** 396.6k 2020 Stanislaus, Santa Clara, Alameda, Contra Costa, San Joaquin 5 Creek 2020 379.9k Fresno, Madera **6 LNU Lightning Complex** 2020 363.2k Napa, Solano, Sonoma, Yolo, Lake, Colusa 7 North Complex 2020 318.9k Butte, Plumas, Yuba 8 Thomas 2017 281.9k Ventura, Santa Barbara 9 Cedar 2003 273.2k San Diego 10 Rush 2012 271.9k Lassen

\$1.3 B





Estimated TOTAL cost of the Camp Fire was about \$422 billion

Bill Gabbert March 12, 2022 Uncategorized Camp Fire, statistics





The **Carr Fire**, which broke out on July 23 in Northern California, is the 8th most destructive fire in the state's history. Eight fatalities are attributed to the fire, and 1,614 structures have been destroyed. Loss estimates are not yet available from the Property Claims Services (PCS) unit of ISO. The Insurance Information Institute estimates that insured losses from the Carr Fire will total between \$1 billion and \$1.5 billion in dollars when it occurred.

Carr Fire \$1 - \$1.5B

Insured residential, commercial and auto losses from the Mendocino Complex and Carr Fires topped \$845 million, according to the California Department of Insurance. The two fires resulted in 8,900 homes, 329 businesses, and 800 private autos, commercial vehicles, and other types of property damaged or destroyed. More than 10,000 claims have been filed.

The **Camp Fire** broke out in Butte County, Northern California on November 8 and became the deadliest and most destructive fire on record in the state. At least 88 people perished. About 153,000 acres were burned and 18,800 structures have been destroyed, according to Cal Fire statistics. The fire burned almost 14,000 residences and about 530 commercial structures. The remainder were minor structures. Loss estimates are not yet available from the Property Claims Services (PCS) unit of ISO. The Insurance Information Institute estimates that insured losses from the Camp Fire will total between \$8.5 billion and \$10.5 billion in dollars when it occurred.

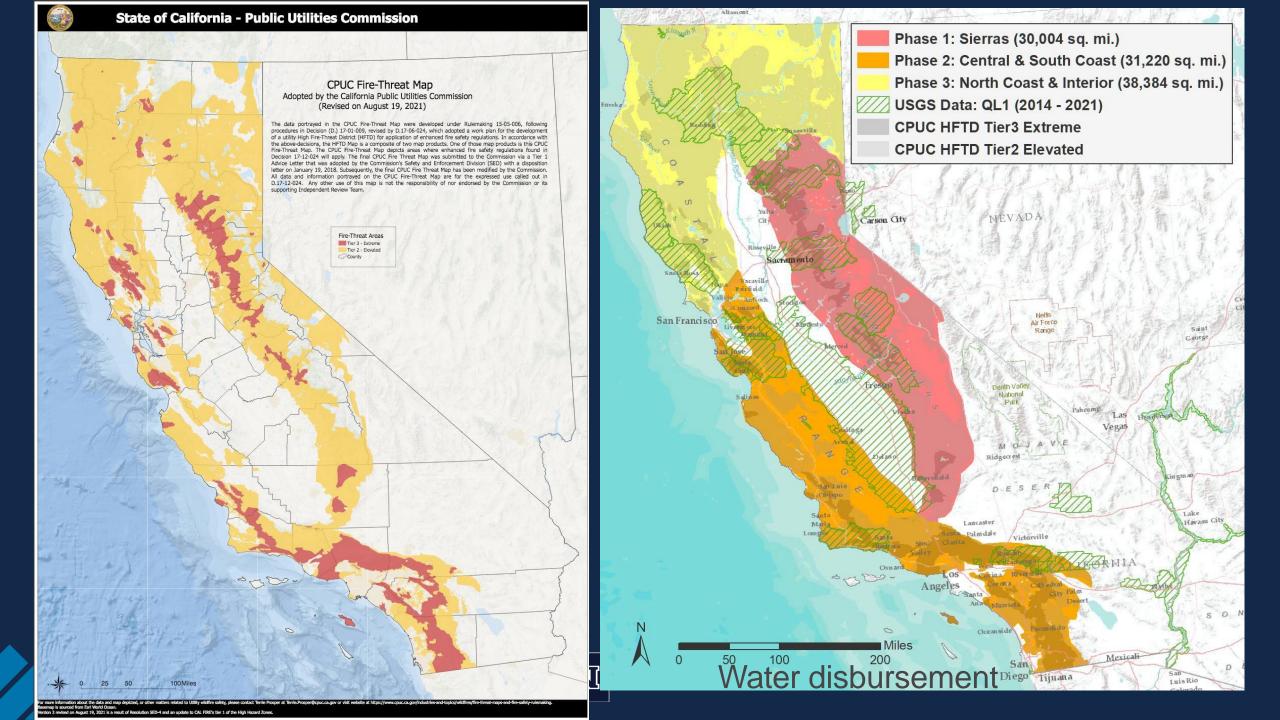
Camp Fire \$8.5 - \$10.5B

Further south two other major fires, the **Hill and Woolsey Fires**, also caused considerable damage. Both fires started on November 8. The Woolsey Fire burned about 97,000 acres according to Cal Fire. It destroyed about 1,600 structures and killed three people. Loss estimates are not yet available from the Property Claims Services (PCS) unit of ISO. The Insurance Information Institute estimates that insured losses from the Woolsey Fire will total between \$3 billion and \$5 billion in dollars when it occurred. The Hill Fire burned about 4,500 acres and destroyed four structures.

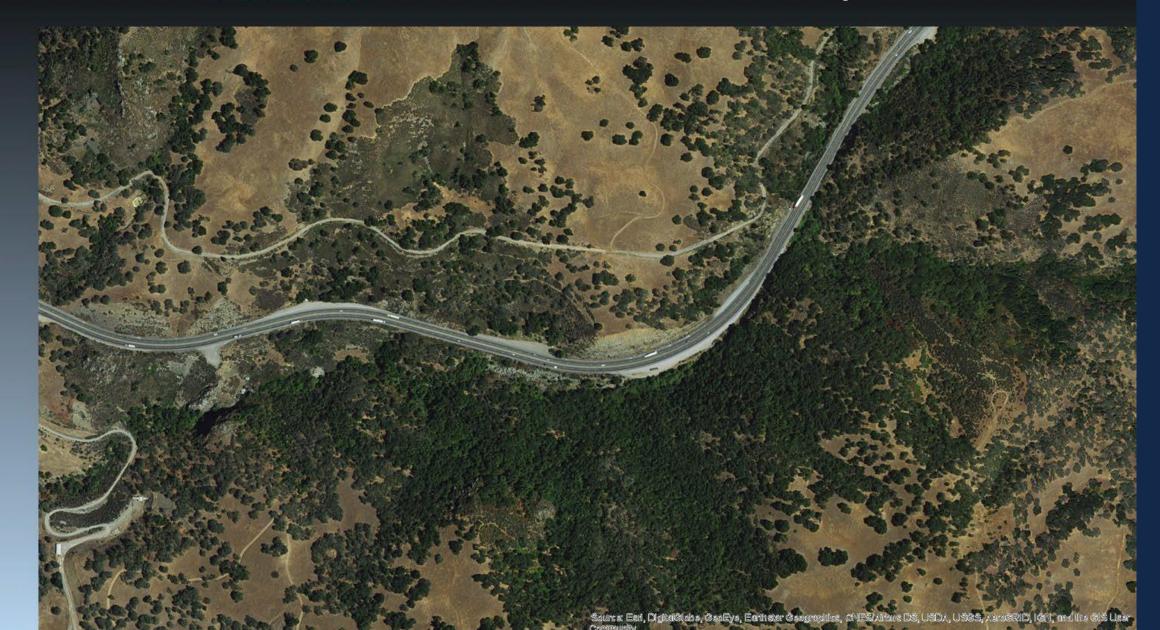
Hill and Woolsey Fire \$3 - \$5B

The California Department of Insurance said that as of April 2019 insurance claims from the Camp, Hill and Woolsey fires in November 2018 were already over \$12 billion.

- •Characterizing the pre-fire phase and fire-inducing conditions will aid forest management and define vegetative fuel availability and moisture content.
- Sensors will provide actionable real-time data for evacuation and deploying resources during the active fire phase.
- •Characterize the post-fire phase such as landscape changes (erosion and landslides) air, soil & water quality, and revegetation.



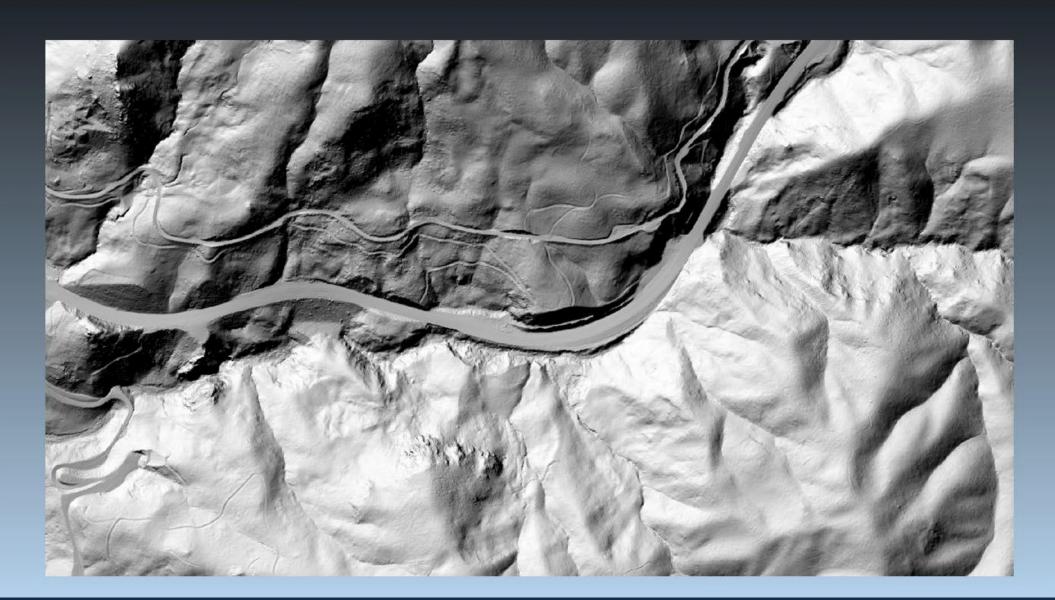
LiDAR Deliverables - Examples

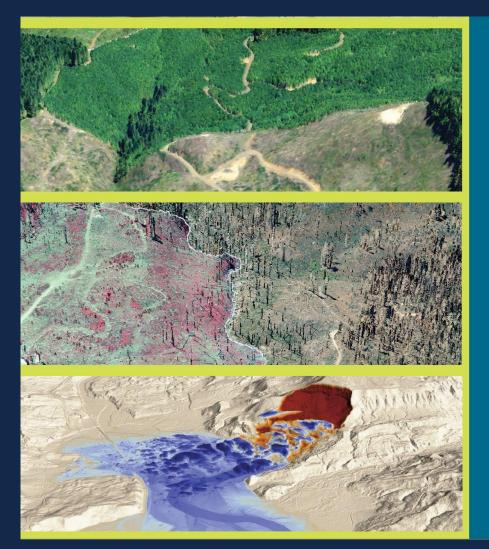


LiDAR Deliverables - Highest Hit



LiDAR Deliverables – Bare Earth





Biomass & Carbon Estimation

By exploring complex relationships between LiDAR metrics and allometry of tree species, forest biomass and carbon content can be quantified. In tandem with ground plot measurements, we develop regression models to estimate forest production parameters of large-scale or global significance.

Wildfire Modeling

Forest metrics from LiDAR and imagery provide valuable information for land use/land management practices, fire suppression planning, and fuel loading calculations. High-resolution LiDAR is instrumental in mapping slope and aspect, as well as road accessibility to better inform wildfire response and recovery.

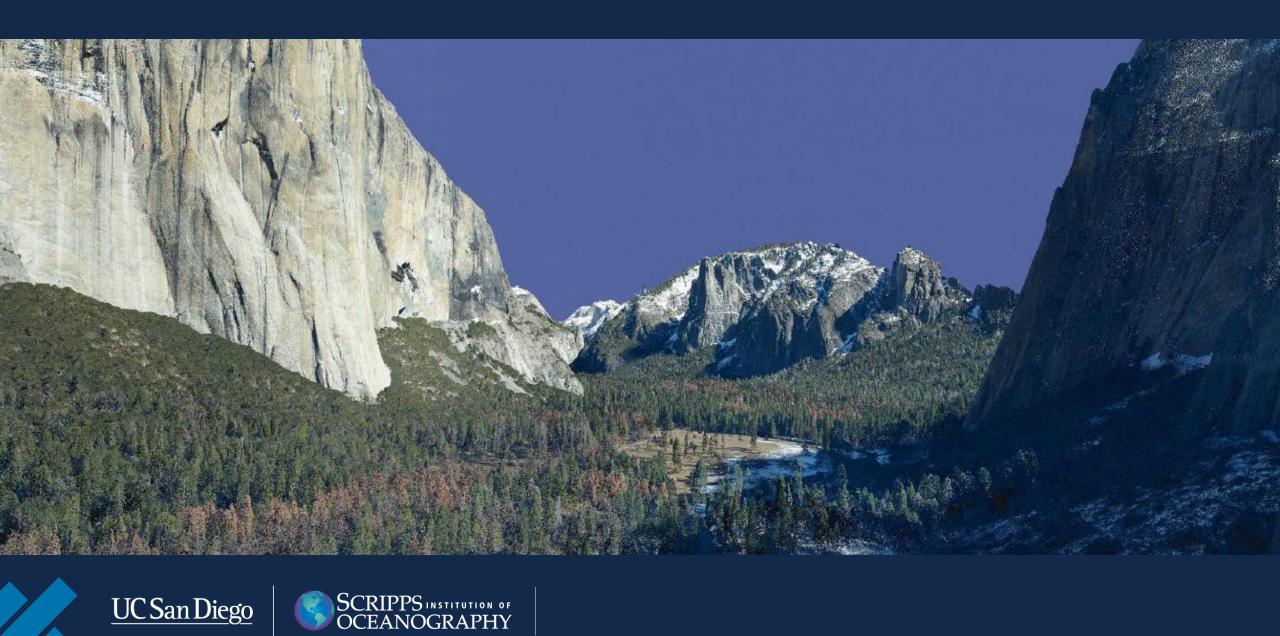
Change Detection & Landslide Analysis

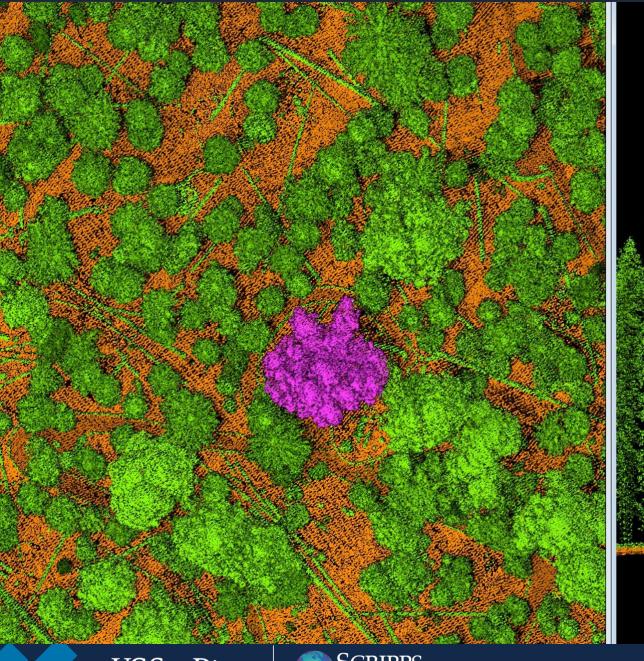
With the aid of recurring surveys and temporal comparisons, our analyses can quantify changes in vegetation growth/removal or in geomorphology to better monitor forest dynamics, and to evaluate and mitigate forest management risks associated with erosion or terrain failure.







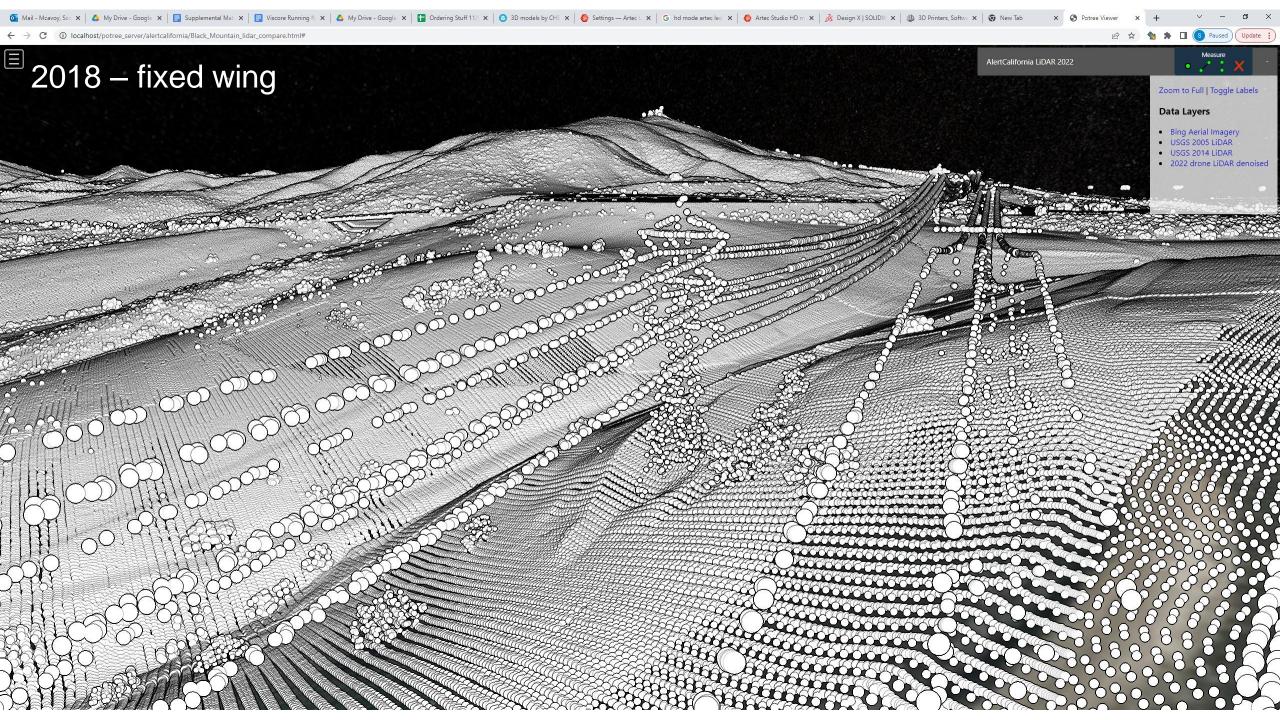


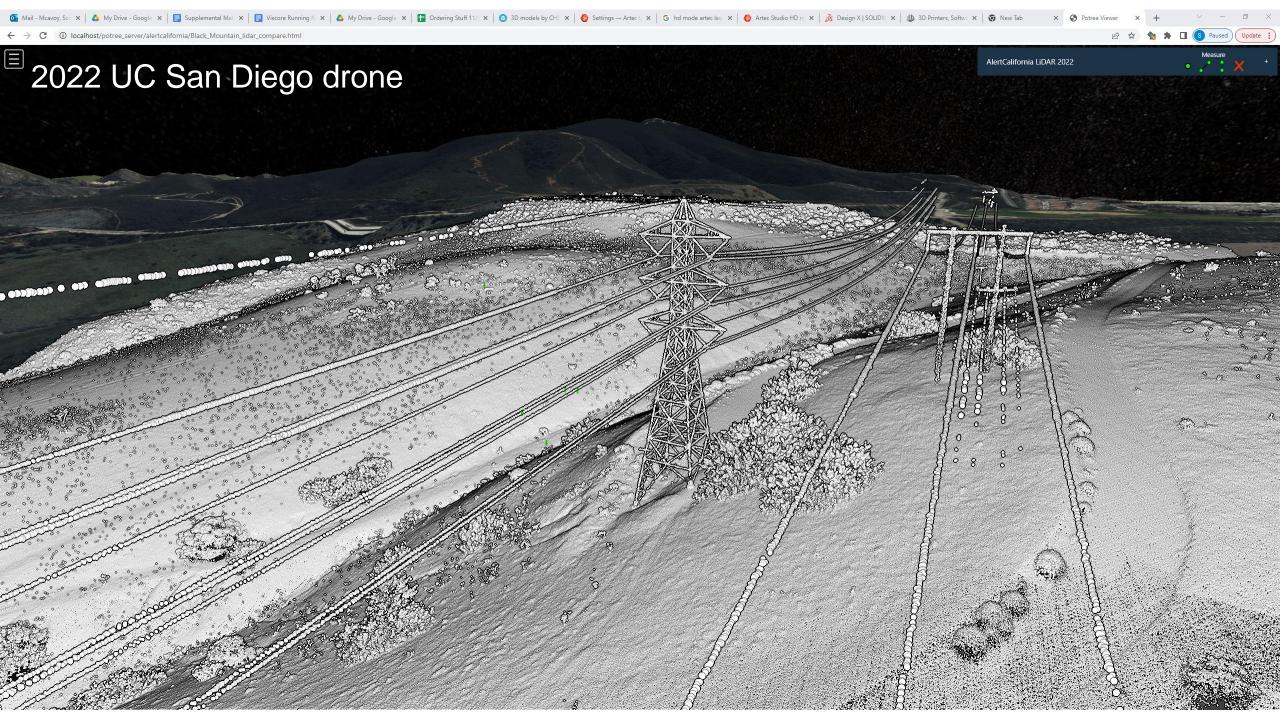




Oroville Dam







During wildfires

 ALERTCalifornia together with CAL FIRE, SCE, SDG&E, and PG&E have deployed a network of high definition HD PTZ Axis cameras with near infrared fire detection

Microwave communications network for increased resilience

 The network provides unparalleled ability to confirm 911 calls, improve situational awareness, and help sequence evacuations







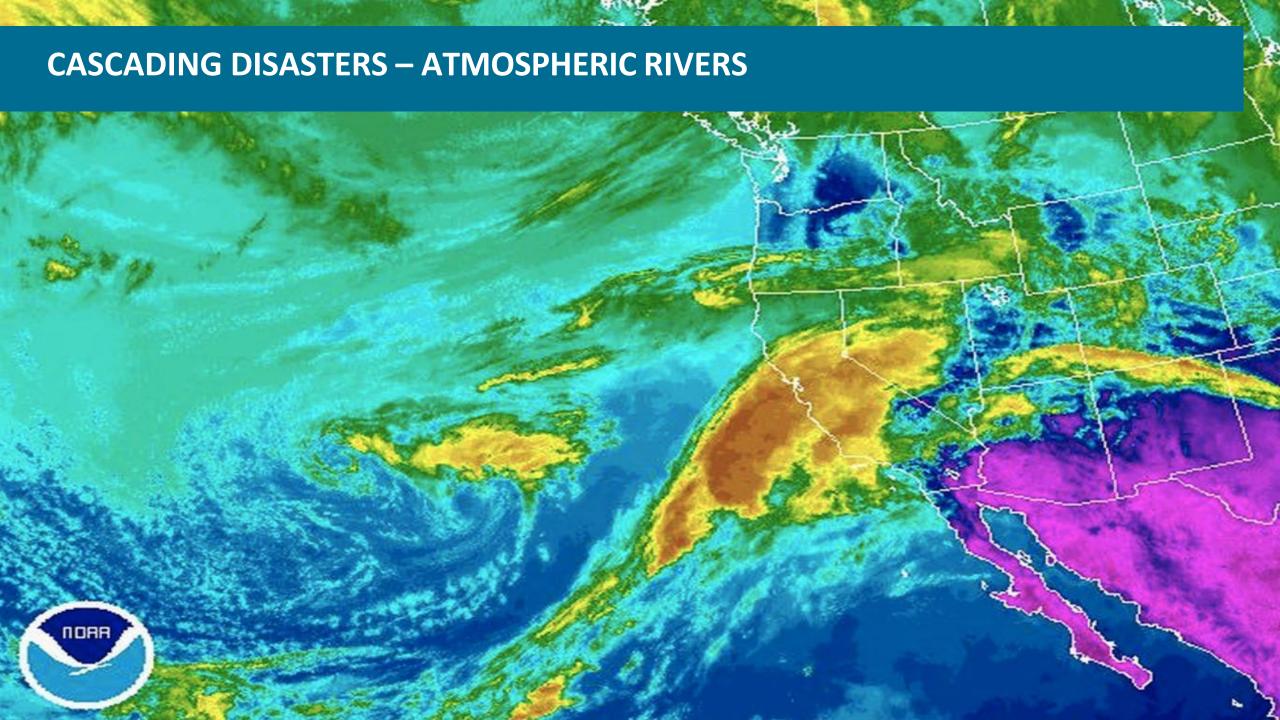




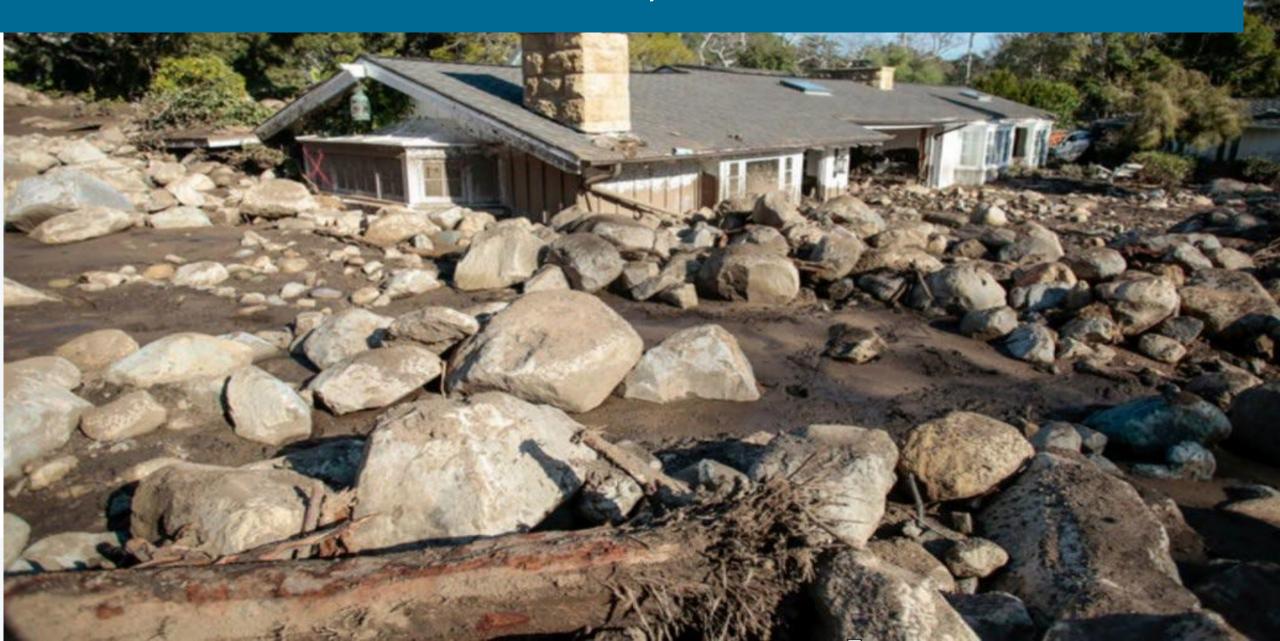
KINCADE FIRE – 77,000+ ACRES NO LOSS OF LIFE Middletown Larkfield-Wikiup Axis-StHelenaN X:-119.18 Y:∞⊶ 57<u>0Z:1.0 REDCOM.aabbott.10-27T08:50 ©</u> Ne<mark>w</mark>ada Seismo Lab 2019/10/27 1 Preset positions







MONTECITO DEBRIS FLOWS – JANUARY 8, 2018



CASCADING DISASTERS – AIR QUALITY, LUNG-RELATED DISEASE AND TOURISM



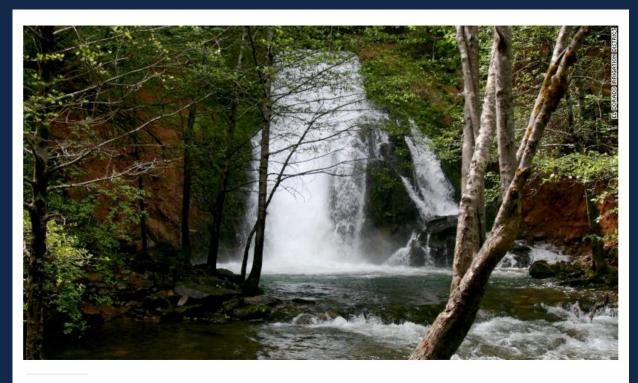
CLIMATE & ENVIRONMENT

Pollution from California's 2020 wildfires likely offset decades of air quality gains

Nationally, 29 of the top 30 counties with the highest level of particulate pollution in 2020 were in California, researchers say.



CASCADING DISASTERS - CAMP CREEK BEFORE AND AFTER CALDOR FIRE



The Camp Creek in El Dorado County, California, before the Caldor Fire.



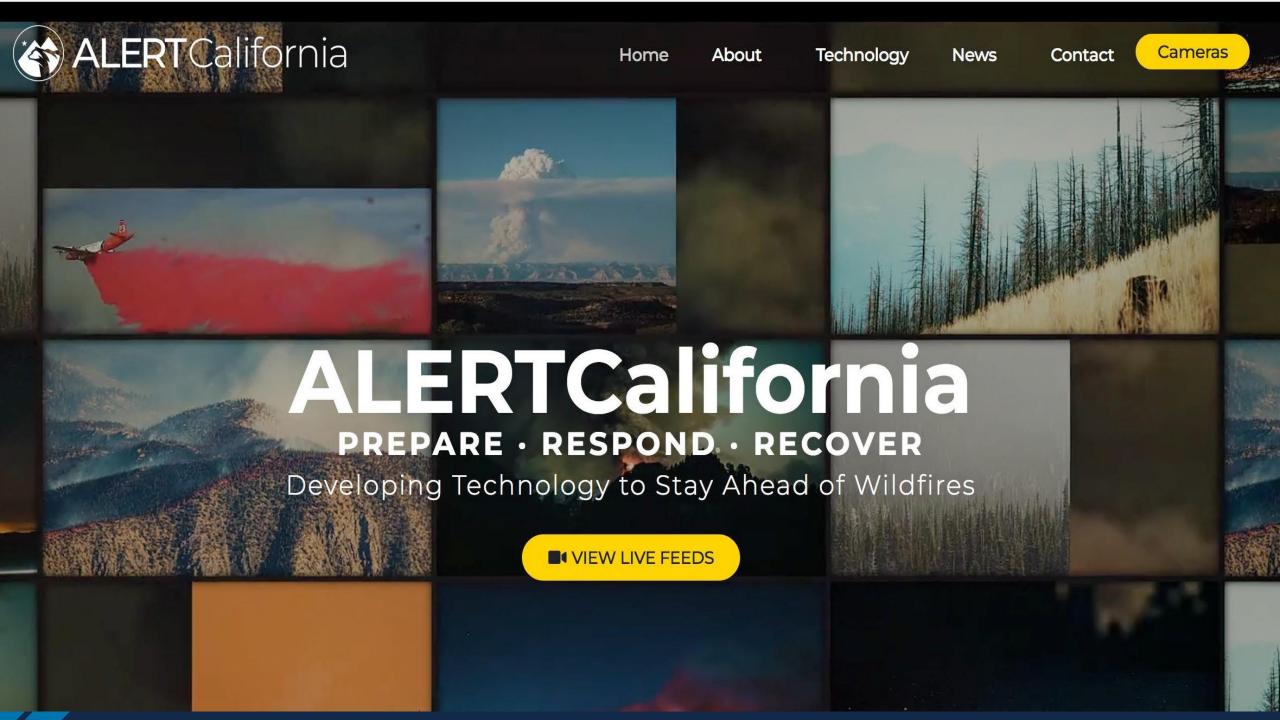
Camp Creek after the fire in a rain storm.





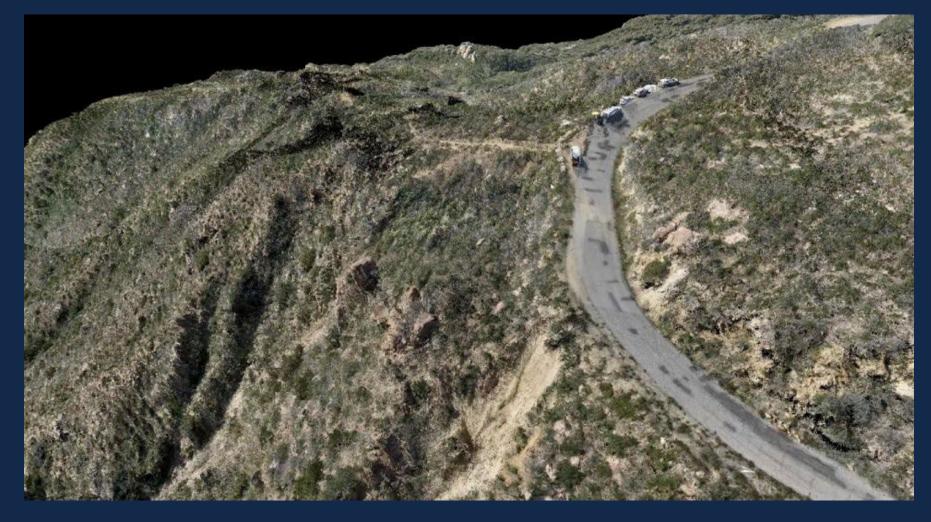












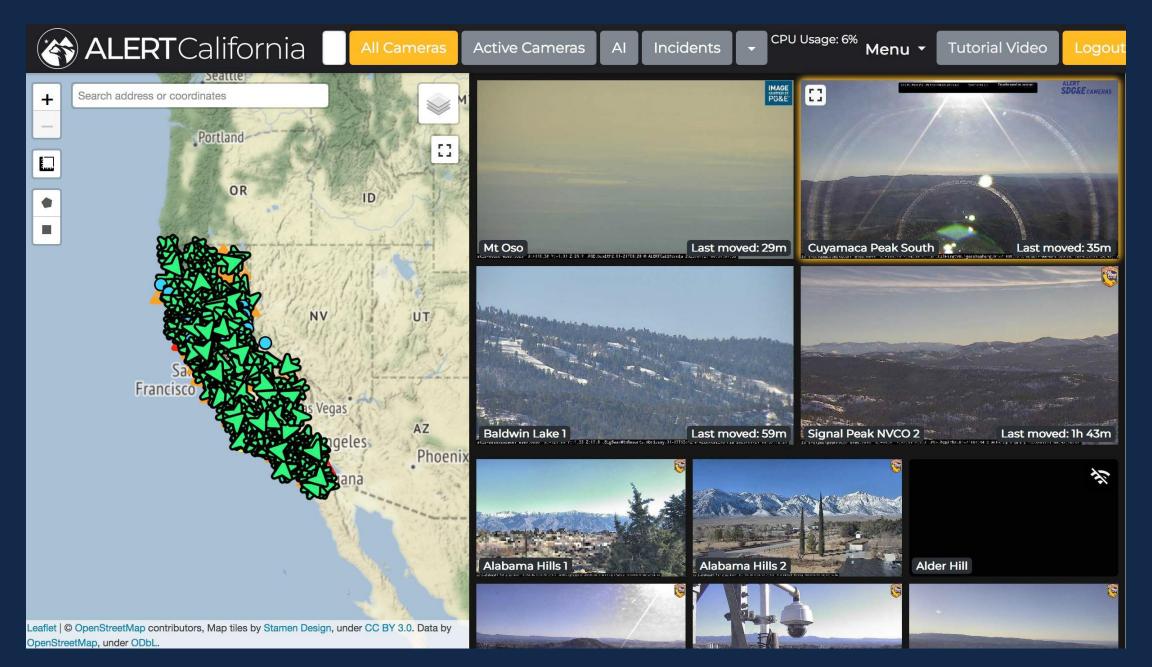
Montecito Drone Lidar Footage – (Click here to watch)







New ALERTCalifornia Command and Control Platform%



New ALERTCalifornia Command and Control Platform



Used Across California

- 2,500 System Users
- 100+ agencies sharing a common camera operating platform



















































































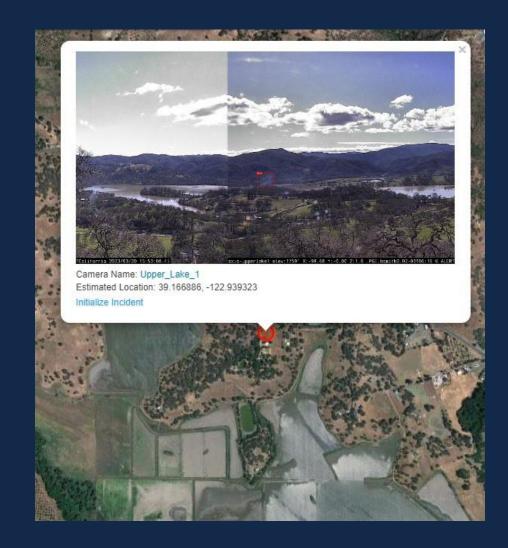






New Al Fire Detection System

- Going live on all 1,000+ Cameras May 2023
- Integrated into C&C System
 - Trained on 1,000 cameras + 2,500 user's movements
- How it Works
 - Cameras spin 360 degrees every minute
 - Operations center confirms new ignition detections
 - Once validated, user alerts are sent out
 - User groups alerts based on incident location
 - Alerts customizable + API for easy integration





2022 Al Beta Results vs 2023

- 2022 Fire Season Beta Results
 - Beating IRWIN 65% of time, avg 33 mins
 - Called in dozens of fires to CAL FIRE dispatch centers
- 2022 vs 2023 Fire Seasons
 - Beta system -> Fully functional Al
 - Cameras spun every 5 10 mins -> 1 min
 - Al Model #10 -> Al Model #14
- Performance Standards
 - Technicians confirm detections, alert users, move cameras onto fires and create shareable incident links

AI MODEL	Incident Name	Reported Date	IRWIN Report Time	AI HIT Time	Delta (H:MM)
10	Clear	10/19/2022	13:22	13:16	0:06
10	Cold	10/20/2022	12:37	12:13	0:24
10	Texas	10/20/2022	13:44	13:46	-0:02
10	SYLVANDALE	10/20/2022	16:18	16:04	0:14
10	Willow 8	10/20/2022	16:41	16:39	0:02
10	SKYLINE	10/21/2022	13:48	NO HIT	
10	PALERMO	10/21/2022	14:42	13:50	0:52
10	PYRAMID	10/21/2022	18:09	18:18	-0:09
10	FLORES	10/22/2022	15:54	15:53	0:01
10	PARK	10/23/2022	10:57	10:12	0:45
10	SONOMA	10/23/2022	12:12	12:16	-0:04
10	PLEASANT	10/23/2022	12:56	13:16	-0:20
10	SPANISH	10/23/2022	15:17	14:52	0:25
10	VALLEY	10/23/2022	14:34	14:03	0:31
10	Manton	10/25/2022	15:41	15:37	0:04
10	RANCH 5	10/25/2022	15:39	15:53	-0:14
10	SADDLE	10/26/2022	12:26	12:16	0:10
10	KELLY	10/26/2022	16:05	15:42	0:23
10	EMPIRE	10/26/2022	17:20	17:25	-0:05
10	FOX	10/29/2022	13:06	8:54	4:12
10	PROVIDENCE	10/29/2022	16:34	16:29	0:05
10	RUN	10/29/2022	10:52	11:03	-0:11
10	BUCKANAN	11/16/2022	10:43	10:39	0:04
			Average time Beating IRWIN		0:22
			Median Time Be	0:04	
			65% of time Beating IRWIN	0:33	





2022 Nighttime AI Results

- Multiple fires burning for hours before initial 911 calls
- Example Fires
 - Ridge Fire 7 Hours
 - Hill Fire 6.5 Hours
 - Bridge Fire 8 Hours
 - Fox Fire 17 Hours



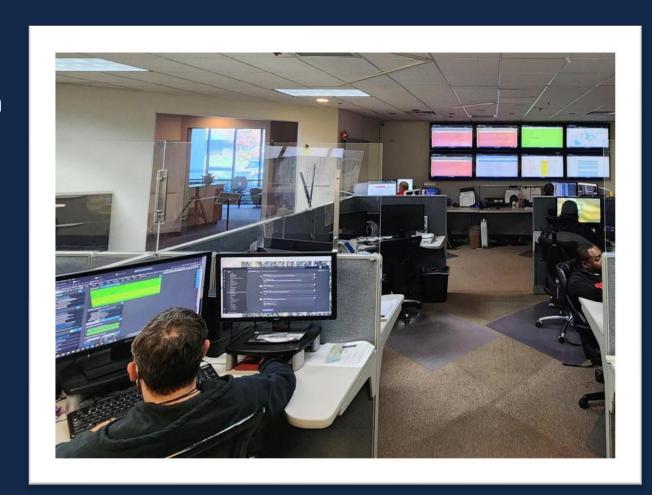






24/7 Operations Center Support

- User Training & Support
- Al Detection with Human Confirmation
- Create incidents and User Alerts within 90 Seconds
- Camera Installation
- Camera Maintenance

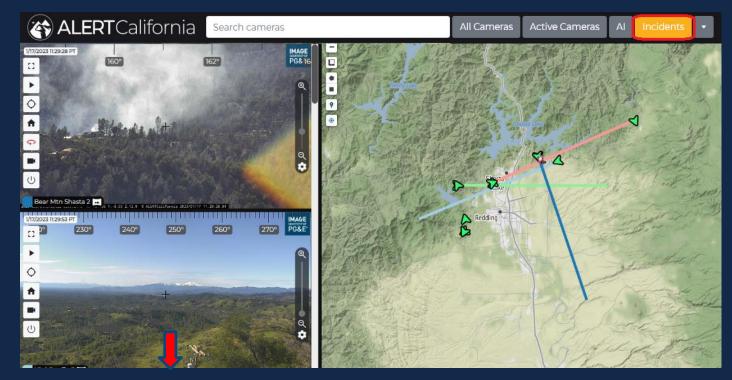






Shareable Incident Pages

- Multiple camera viewing angles
- System determines which cameras can view the incident
- Toggleable between current camera view and panoramic modes
- Users can move all the cameras from incident page
- Incident locations displayed as flames on map



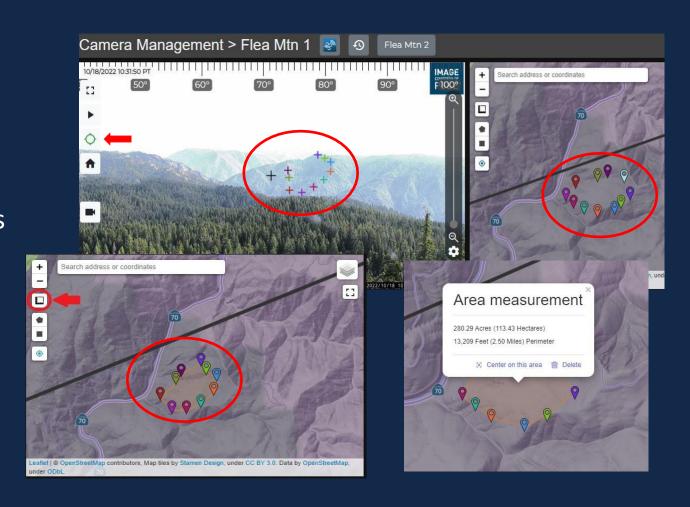
Scroll down to view incident from other cameras





Targeting Mode

- Digital elevation model ties camera images to map locations
- Click fire in image to display location
- Single camera fire start locations
- Quickly paste GPS into other systems
- Rough incident acreage estimations
- Highly dependent on camera calibration!







Historical Image Archive

- UCSD Seeker Archive
 - Select time and date to view previous fires
- Use Cases
 - Identify how fires started and developed
 - Post incident review & training
 - Investigations cause and origin









All Hazard Capabilities

Weather Stations

• System designed for all hazard sensor inputs including graphing data feeds

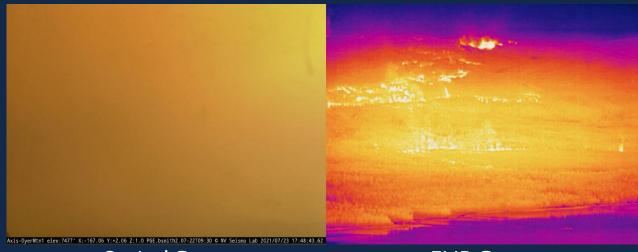
• FLIR Cameras

 Provide increase situational awareness in smokey conditions allowing visibility where previously obstructed by smoke

Mobile Camera Deployments

• Can be deployed during active incidents and easily integrated into the system





Optical Camera (200 - 300 foot visibility in heavy smoke)

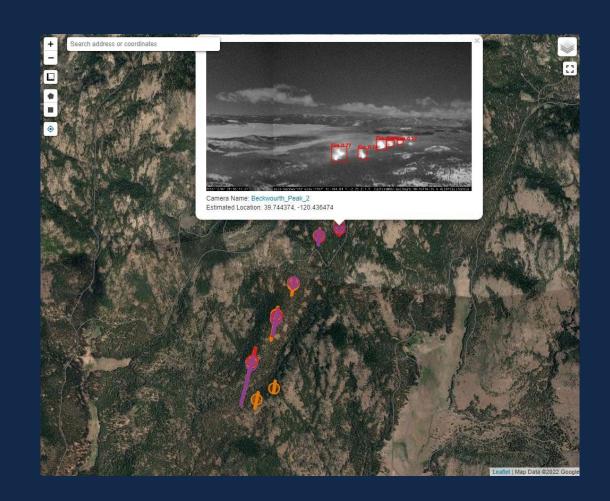
FLIR Camera (25+ mile visibility in heavy smoke)





ALERTCalifornia Platform Benefits

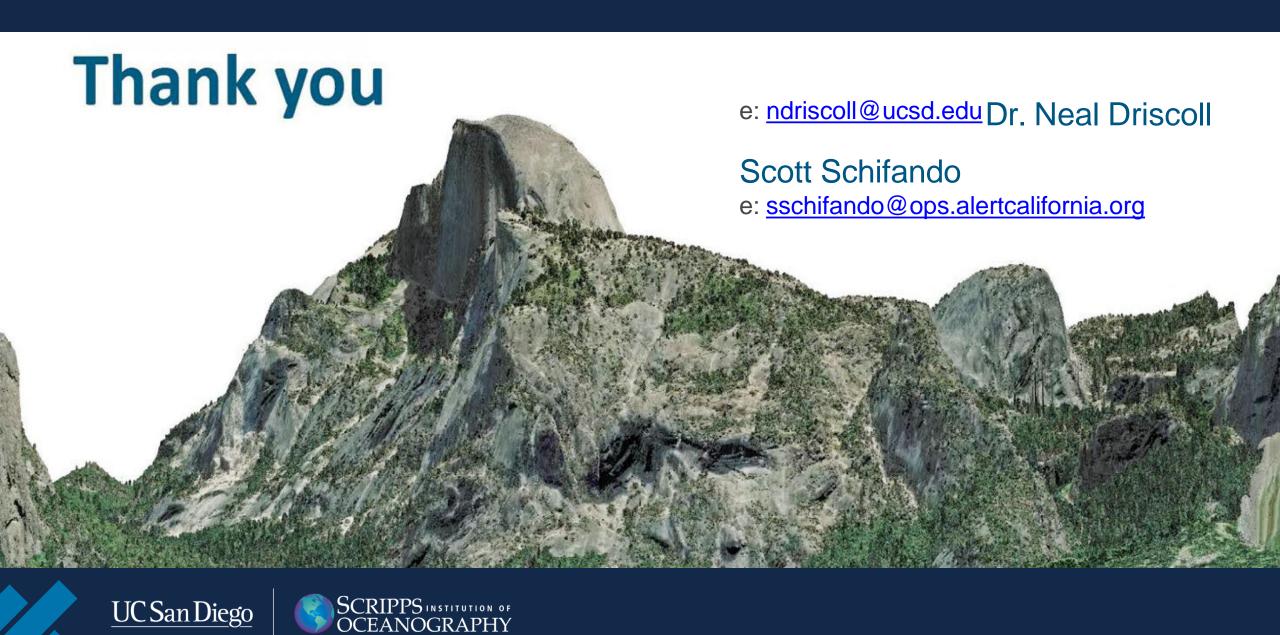
- 24/7 Immediate visualization of new fire ignitions to determine appropriate response
- Earlier fire detection = faster response = lower suppression & recovery costs
- Better location accuracy shortens response times & improves fire spread models
- Lower dispatcher workloads ALERTCalifornia operations techs move cameras onto fires
- All hazards situational awareness tool weather conditions, PSPS, flooding/landslide/avalanche, vehicle accidents, and many other use cases













Roundtable / Public Comment

- ► Roundtable
- ► Topic Suggestions for Next Meetings
 - https://forms.gle/Wefg6Ynrn UGYS8ua9
- ► Public Comment





Next Meeting Information

April 18, 2023

CNRA Building, 2-221 (A) Conference Room 715 P St, Sacramento, CA

- CAL FIRE:
 - CAL FIRE Strategic Plan 2024
 Development
 - Phyllis Banducci
- Rancho Mission Viejo:
 - Wildfire Safety Measures for Today's Master Planned Communities
 - Mike Balsamo and Jay Bullock





Meeting Adjournment (Motion Required)

Copies of the written materials have been posted on the Office of the State Fire Marshal web site at https://osfm.fire.ca.gov/.

For information concerning the Advisory Committee Meeting, please contact Kara Garrett at (916) 201-5539 or Kara.Garrett@fire.ca.gov.

NOTE: Items designated for information are appropriate for committee action if the committee chooses to act. The agenda order is tentative and subject to change. Agenda items may be taken out of order to facilitate the effective transaction of business. The Committee may not discuss or act on any matter raised during the public forum period, except to decide whether to place the matter on the notice and agenda of a future committee meeting.

