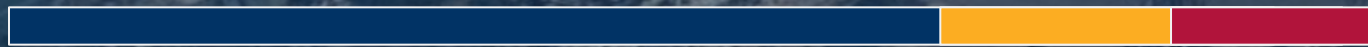


April 28, 2026



California Wildfire Mitigation Program Authority

Home Hardening Initiative



CWMPA Board of Directors Public Meeting

CWMPA Board of Directors Public Meeting

Call To Order and Roll Call

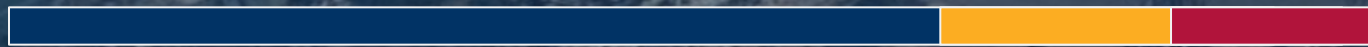
Welcome Message

Consent Agenda Items

- Approval of March 17, 2026, Meeting Minutes

California Wildfire Mitigation Program Authority

Home Hardening Initiative



CWMPA Board of Directors Public Meeting

Discussion and Action Items

CWMP Pilot Program Update: Cal OES Hazard Mitigation Assistance

CWMP Grant Expenditures

Time Extension Requests

Scope of Work Modifications

Update on DHS/FEMA changes from Deputy Director Robyn Fennig

CWMP Grant Expenditures

Total Project Costs as of February 28, 2026		
Subrecipient	County	Expenditures to Date
El Dorado County Office of Wildfire Preparedness and Resilience	El Dorado	\$ 361,291
North Coast Oportunities	Lake	\$ 3,851,813
San Diego County Fire Protection district	San Diego	\$ 2,022,589
Shasta County Fire Safe Council	Shasta	\$ 2,366,000
Shasta Valley Resource Conservation District	Siskiyou	\$ 1,792,024
Tuolumne County Office of Emergency Services	Tuolumne	\$ 221,757
CWMP TOTAL		\$ 10,615,474

Time Extension Requests

Cal OES is continuing to request time extensions for our subrecipients

We submitted TEs for multiple disaster declarations including

- DR4558 – San Diego County
- DR4569 – Shasta County Fire Safe Council

We will proceed with business as usual until we hear back from FEMA

Scope of Work Modifications

San Diego and Shasta County Fire Safe Council both submitted scope of work modifications

- Reduce total number of homes hardened to align with the requested time extension
- Increase amount spent per parcel
- Reduce overall grant spending

CWMP Pilot Program Update:

CAL FIRE

Review the home hardening assessment reports, scope of work documents and provide technical recommendations for home hardening retrofits

Planning the June 2026, International Code Council ICC Tour of Lake County Project area

SB-514 developing the contractors training

Planning the May CWMP HIZ/DSA training

San Diego County Fire Protection District in San Diego County

Site-Work Updates –

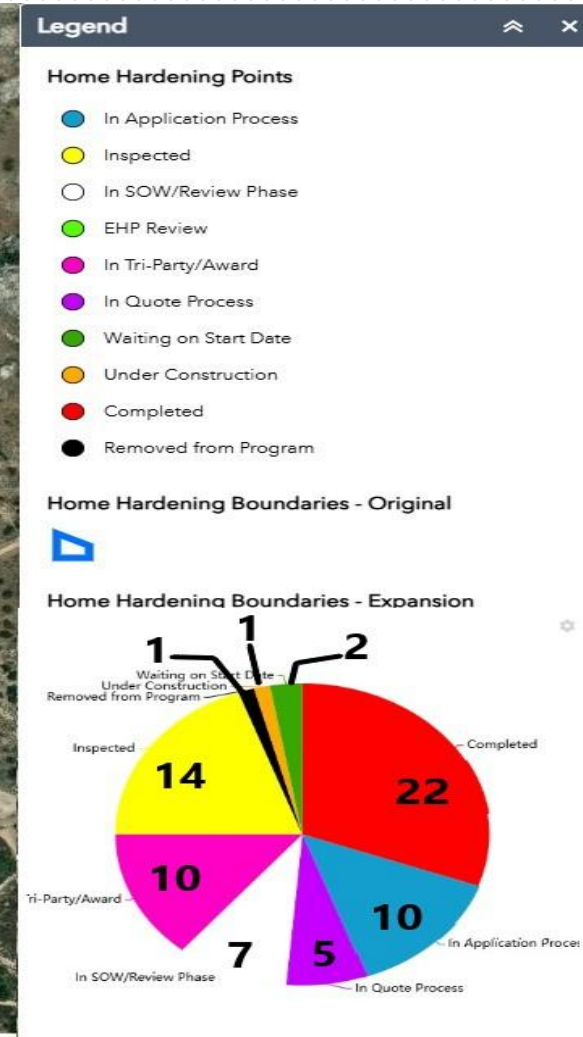
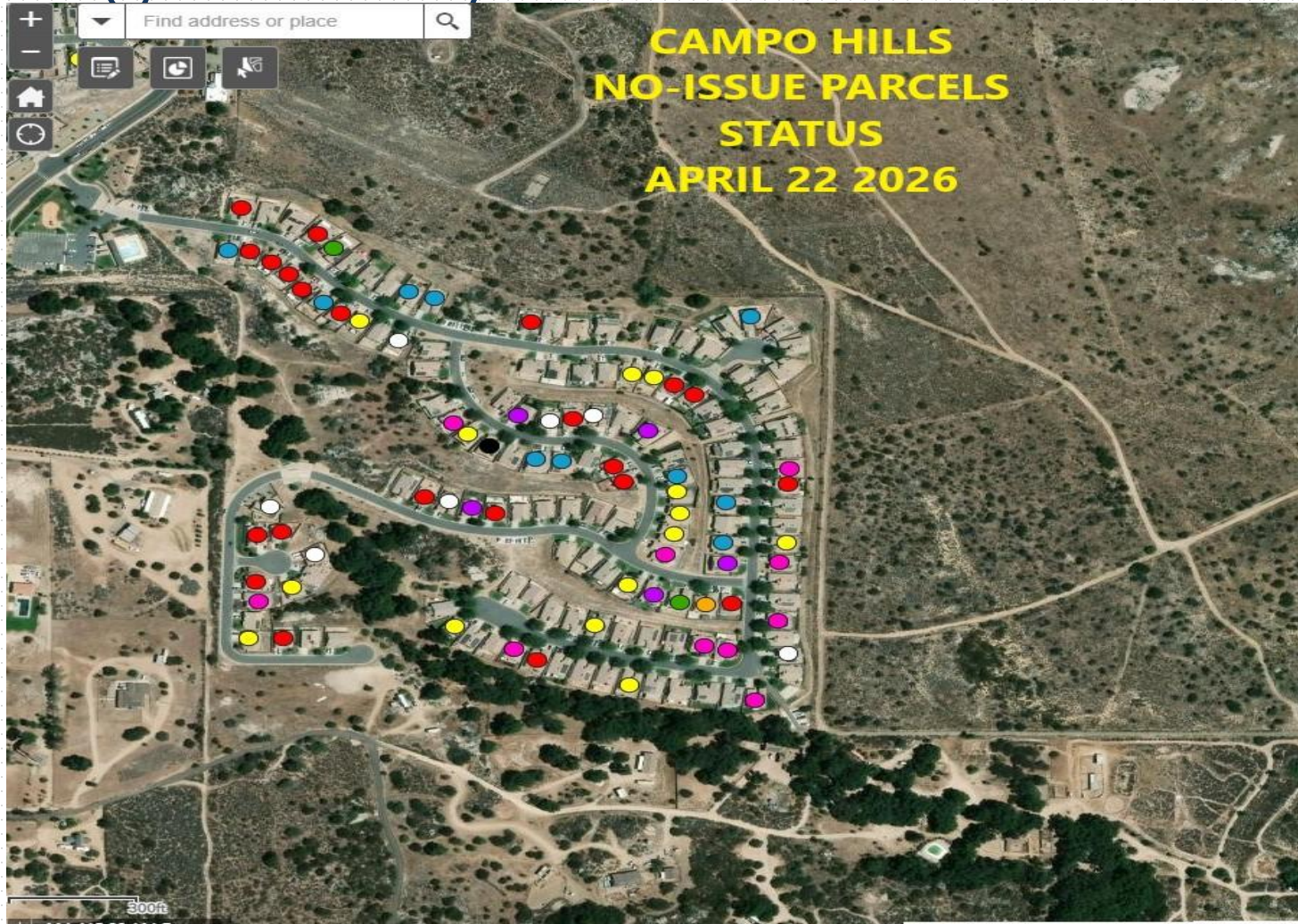
- 24 homes complete
- 2 in active construction
- Three job walks completed Monday, April 20
 - A new pre-qualified contractor attended, hopeful to start getting more contractor participation

General Updates -

- Project Manager attended a Mandatory Resident HOA Event this month, since the event they have received 13 new no-issue applications in a week
- Started collecting neighbor info for Tri-party at time of application, helping to speed up Tri-party process
- HOA gave residents until June to apply for the program or pay for the propane tank enclosures themselves

CWMP Pilot Program Update:

San Diego County Fire Protection District in San Diego County



CWMP Pilot Program Update:

Shasta Valley Resource Conservation District in Siskiyou County

Site Work Updates

- Batches 1 through 4 are Complete
- Batch 5 is in progress, two sites pending
- Batches 6 and 7 are being scheduled
 - These batches have been reduced to 3 sites per batch, testing reduced size for manageability, signing contracts
- Batches 8 and 9 are being prepped

Total 39 Homes complete, 4 in progress

- Work Progress and Spending pace are on track

CWMP Pilot Program Update:
Shasta Valley Resource Conservation District in
Siskiyou County



CWMP Pilot Program Update:

Shasta County Fire Safe Council in Shasta County

Site Work

- 30 Homes have been completed
- 3 Homes in active construction
 - Expected to be completed in the next few weeks

Closeout

- POP end date 8/28/2026
 - Closeout process begins 90 days prior (5/28/2026)
 - Preparing Documents with CWMP and SPU

Project Area

- Sent out a survey to homeowners who participated in the CWMP for feedback on what works and ideas on how to improve
 - Received from 11 of 29 responses
 - 100% of respondents reported being satisfied
 - 100% of respondents say they are likely to recommend the program

CWMP Pilot Program Update: Shasta County Fire Safe Council in Shasta County



Before



After

CWMP Pilot Program Update:
Shasta County Fire Safe Council in Shasta County



Before



After

CWMP Pilot Program Update: Shasta County Fire Safe Council in Shasta County



Before



After

North Coast Opportunities in Lake County

Site Work

- 56 Homes have been reported as completed
- 13 homes in active construction
- 3 going out to bid

Project Area

- Coordinating with CWMP & CALFIRE to host International Code Council (ICC) Site visit June 11, 2026
 - Plan to show completed homes and homes in active construction
 - Approximately 15 attendees, including: ICC, CAL FIRE, Cal



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OES CWMPA

CWMP Pilot Program Update: North Coast Opportunities in Lake County



Before



After

CWMP Pilot Program Update: North Coast Opportunities in Lake County



Before



After

CWMP Pilot Program Update:

Tuolumne County Office of Emergency Services

Project Updates

- The county is actively working on property assessments and developing their Scopes of Work (SOW).
- 45 assessments have been completed.
- Three SOWs have been approved from prior CAL FIRE review.
- CWMP and CAL FIRE continue oversight of the published assessments, ensuring satisfactory implementation, and are continuing to review SOWs.

Staff

- One part time Assessor and Project/Construction Manager.
- Looking to fill an additional part-time analyst to assist with assessments.

Outreach

- Three rounds of mail advertising the program have gone out to the community, which in turn have increased the number of applicants interested.
- The county attended the 43rd Home and Garden show where they educated the public on defensible space, available home hardening products, and answered any questions about the program.



CWMP Pilot Program Update: Tuolumne County Office of Emergency Services



CWMP Pilot Program Update:

El Dorado County Office of Wildfire Preparedness and Resilience

Project Updates

- The county is actively working on property assessments and developing their scopes of work.
- 25 assessments have been completed.
- 13 assessments ready for SOW QA Review, 1 SOW approved from prior CAL FIRE review.
- CWMP and CAL FIRE continue oversight of the published assessments, ensuring satisfactory implementation, and are reviewing their scopes of work.

Staff

- One full time construction manager
- Four county assessors

Outreach

- Two sets of mailers have gone out inviting homeowners to apply with resulting applications. Door to door outreach began last week with additional visits scheduled for the upcoming week. A third round of follow-up mailers will go out after these visits.
- RFQ for contractors has been published and closes today on 4/28/26.



CWMP Authority - Executive Director Report

- CWMP Monthly Status Report
- General Liability Insurance Acquisition: Golden State Risk Management Authority
- Amended and Restated CWMP JPA Agreement
- Officers: Duties: Related Subjects
 - (4) The Board shall appoint, or secure via contract, a Treasurer and Auditor pursuant to the JEPA and shall have the power to appoint, or secure via contract, only such other officers, managers, legal counsel, and staff as it determines to be necessary to accomplish its purpose as stated in Section 1.

CWMP Authority - Executive Director Report

- AB 1934, as introduced, Bennett. State Fire Marshal: home hardening certification program.
 - This bill would require, on or before January 1, 2028, the State Fire Marshal's Wildfire Mitigation Advisory Committee to develop a home hardening certification program that identifies home hardening measures, including defensible space, that can be voluntarily implemented during renovation or property improvement projects, or both, to substantially reduce the risk of loss during a fire and bring existing building stock into alignment with state building standards for wildland-urban interface areas. The bill would require the committee, in developing the home hardening certification program, to provide specified recommendations. The bill would authorize the Office of the State Fire Marshal to expend funds from the Building Standards Administration Special Revolving Fund, upon an appropriation by the Legislature, for the purposes of developing the home hardening certification program.
- AB 1964, as introduced, Bennett. State Fire Marshal: county recorder: home hardening.
 - This bill would require the State Fire Marshal to, on or before January 1, 2030, compile a report concerning homes in moderate, high, and very high fire hazard severity zones in state and local responsibility areas. The bill would require the State Fire Marshal to make the completed report available on its internet website and to, on or before July 1, 2030, submit copies to the Legislature, as provided. The bill would require the report to include, among other things, the number of homes that meet home hardening criteria and the number of homes that require more home hardening in each responsibility area and county.

CWMP Authority - Executive Director Report

- AB 1960, as introduced, Bennett. Wildfire Prevention Grants Program: identified cohesive fire communities.
 - This bill would authorize the department, commencing with the 2028–29 fiscal year, to disburse funds appropriated for the Wildfire Prevention Grants Program to identified cohesive fire *communities, as defined*, that partner with fire safe councils, as provided, to use for activities related to hazardous fuels reduction, wildfire prevention planning, and wildfire prevention education, among other activities. The bill would require the department, commencing with the 2028–29 fiscal year, to *prioritize disadvantaged identified cohesive fire communities* in its evaluation of applicants for the Wildfire Prevention Grants Program.
- SB 1076, as introduced, Pérez. Admitted insurers: residential property insurance.
 - On and after January 1, 2028, this bill would prohibit an admitted insurer that offers or sells residential property insurance in this state from refusing to offer, sell, or renew a policy of residential property insurance for an applicant or insured whose property meets minimum home hardening and wildfire mitigation standards, except as provided. The bill would authorize an admitted insurer to apply to the commissioner for a temporary waiver of that prohibition in a particular geographic area of the state, as specified. On and after January 1, 2028, the bill would also require any residential property insurance offered or sold to, at a minimum, provide coverage equivalent in scope to the residential property coverage the admitted insurer most commonly offers or sells in this state. The bill would suspend or revoke an insurer's certificate of authority to offer or sell residential property insurance and automobile insurance in this state for five years if the admitted insurer habitually and as a matter of ordinary practice violates these provisions or if the admitted insurer offers residential property insurance in this state on and after January 1, 2026, but elects to cease offering that insurance rather than comply with these provisions.

CWMP Authority - Executive Director Report

- AB 1971, as introduced, Bennett. Property tax: exclusion from reassessment: home hardening retrofitting improvements.
 - This bill would require the State Board of Equalization *clarify that a home hardening retrofitting improvement, as defined, to an existing structure is considered nonassessable repair and maintenance, provided that the improvement does not add square footage, change the property's use, include structural reconfigurations, or include substantial rehabilitation.*
- SB 1270, as amended, Richardson. Wildfire mitigation program: financial assistance to counties.
 - This bill would require the joint powers *authority, upon appropriation for specified purposes, to provide financial assistance to the top 7th to 10th ranked counties, inclusive, with the greatest combined risk of wildfire and social vulnerability based on the above-described eligibility criteria, as provided. The bill would also require certain federal funding, subject to specified conditions, to revert to the joint powers authority to fund home hardening in those counties. The bill would require the joint powers authority to additionally include an evaluation of the amount of additional funding that would be required to expand the wildfire mitigation program to those counties.*

CWMP Authority - Executive Director Report

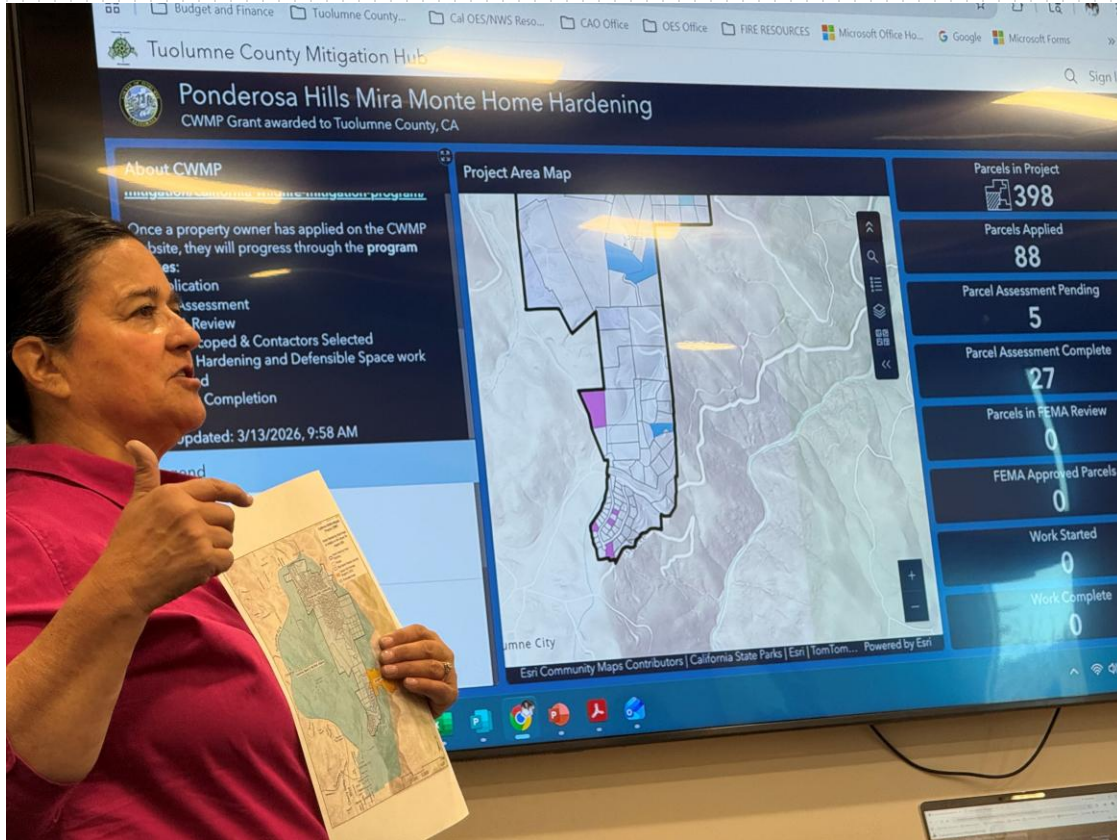
- AB 2037, as amended, Patterson. Wildfire Mitigation Aging and Disability Grant Pilot Program.
 - This bill would establish the Wildfire Mitigation Aging and Disability Grant Pilot Program to be administered by the California Department of Aging through specified area agencies on aging, including Area 4 and El Dorado County Area. *Planning and Service Areas 4, 29, and 33*. The bill would award grants, based on specified criteria, to seniors and individuals with disabilities to mitigate against wildfires on properties they own that they would not otherwise be able to protect with existing resources. The bill would require the area agencies on aging to award grants on a competitive basis and would require applications to contain specified information, including proof of need. The bill would also authorize the grant funding to be used towards the costs associated with hiring contractors or other qualified service providers to perform wildfire mitigation activities. The bill would appropriate the sum of \$1,000,000 from the General Fund to the Department of Aging to implement these provisions.

CWMP Pilot Program Next Projects (Pending)

- **CWMP Funding Awaiting action** State Funding \$13 Million
 - ~\$6 Million Committed to Siskiyou County for HMGP Grant ~\$24 million
 - ~\$7 Million Committed to Riverside County for HMGP Grant ~\$26 million
 - Both Projects submitted to FEMA on 11/21/2024 utilizing funding opportunity DR-4699-CA (California Severe Winter Storms, Straight-line Winds, Flooding, Landslides, and Mudslides) FEMA Review will take ~7-12 months.
 - Update: 13 million reverted per 2025-26 State budget
- **SB-946** Personal Income Tax Law: Corporation Tax Law: exclusions: wildfire mitigation payments.(2023-2024)

CWMP Authority - Executive Director Report

- Wildfire and Forest Resilience Task Force Regional Meeting March 19-20, 2026
 - Field Trip including CWMP Community Mira Monte or Ponderosa



CWMP Authority - Executive Director Report

- Wildfire and Forest Resilience Task Force Regional Meeting March 19-20, 2026
 - Field Trip including CWMP Community Mira Monte or Ponderosa



CWMPA Deck Retrofit



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CWMP Authority - Executive Director Report

- Cal OES Mitigation Assessment Unit Presentation

HAZARD MITIGATION ASSESSMENT UNIT

Measuring Programmatic Success through Cost Effectiveness

April 28, 2026



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WHO WE ARE?



- PM I Brandon Fore, MPA
- RDS III James Kupihea, PhD
Environmental Systems
- RDS II Ryan Conway, PhD
Ecology & Environmental Science
- RDS II Samuel Ericksen, MS
Environmental Science and
Management
- RDS I Azar Ostovan, PhD
Physical Chemistry
- RDS I Mohammad Mirmazloumi, PhD
Remote Sensing
- RDS I Erica De Biasio, PhD
Climate and Atmospheric Sciences

WHAT DO WE DO?

- Hazard Monitoring Tracking
- Loss Avoidance Studies
- Benefit Cost Analysis Review
- Project Feasibility Examination
- SHMP Risk Assessment
- Adaptation Planning Guide Support
- Remote Sensing + Change Detection
- Geospatial Risk Analysis & Visualization
- Research and Development
- Machine Learning and Image Processing
- Data Modeling & LiDAR Analytics
- Emerging Technologies (UAS and Applied AI)
- Automated Dashboards
- SQL-Based Data Processing and Querying
- Identifying Hazard Risk and Creating Tools

HOW CAN WE SUPPORT THE CWMP REPORT TO LEGISLATURE?

- Due July 2028
- 8654.10
 - (1) An evaluation of the cost-effectiveness of the wildfire mitigation program compared to other structure hardening, defensible space, vegetation management, and fuel reduction incentive programs.
 - (2) An evaluation of the overall wildfire risk reduction achieved statewide through awards of financial assistance under the wildfire mitigation program.
 - (6) Any other information the office determines is necessary or convenient to evaluate the financial assistance awarded under the program.

ASSESSING RISK TO STRUCTURES FROM WILDFIRES

RISK =

HAZARD

X

VULNERABILITY

LIKELIHOOD
(BURN PROBABILITY)

EXPOSURE
(WILDFIRE / COMMUNITY
OVERLAP)

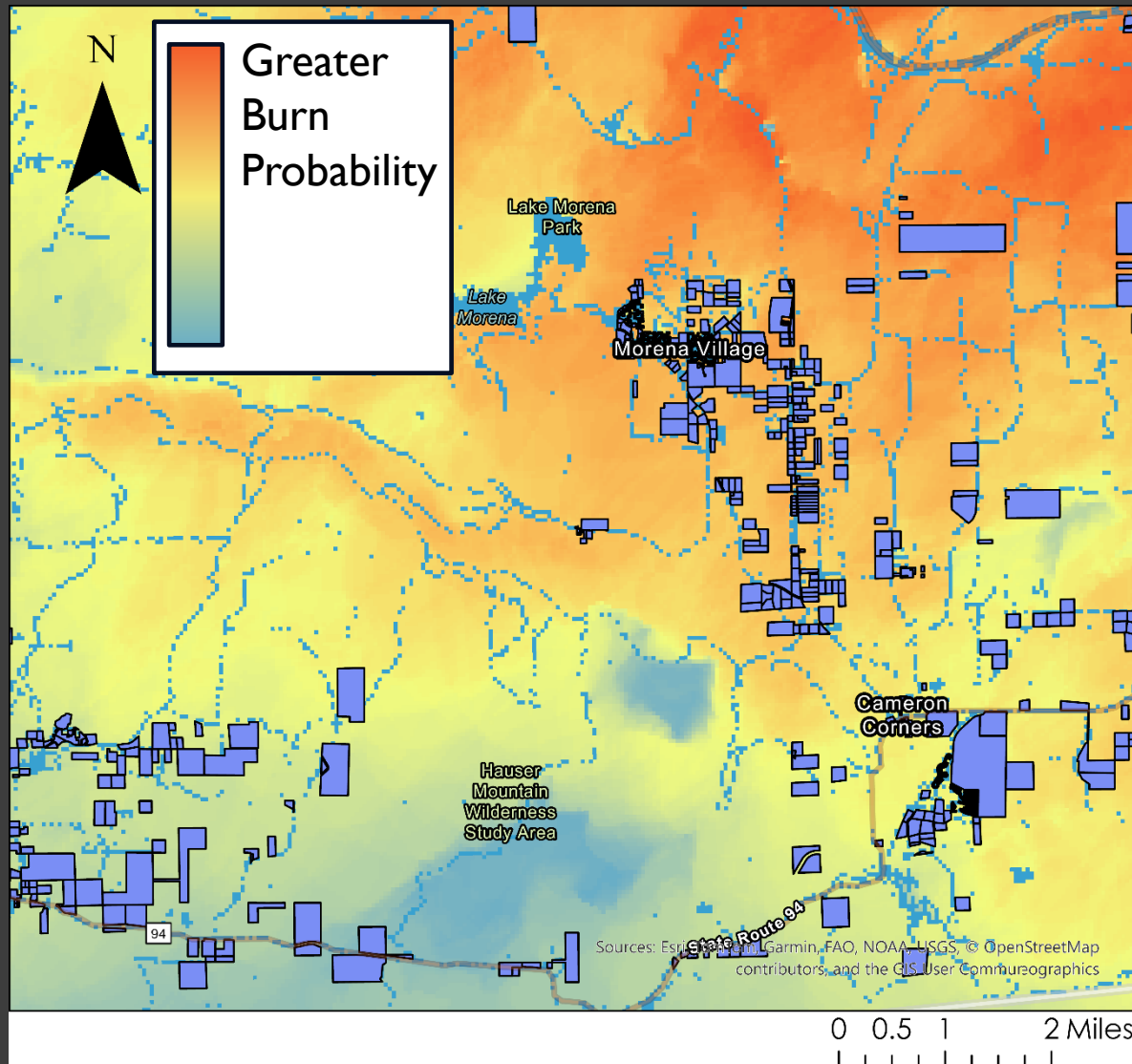
INTENSITY
(FLAME LENGTH)

SUSCEPTIBILITY
(LIKELIHOOD OF DAMAGE)

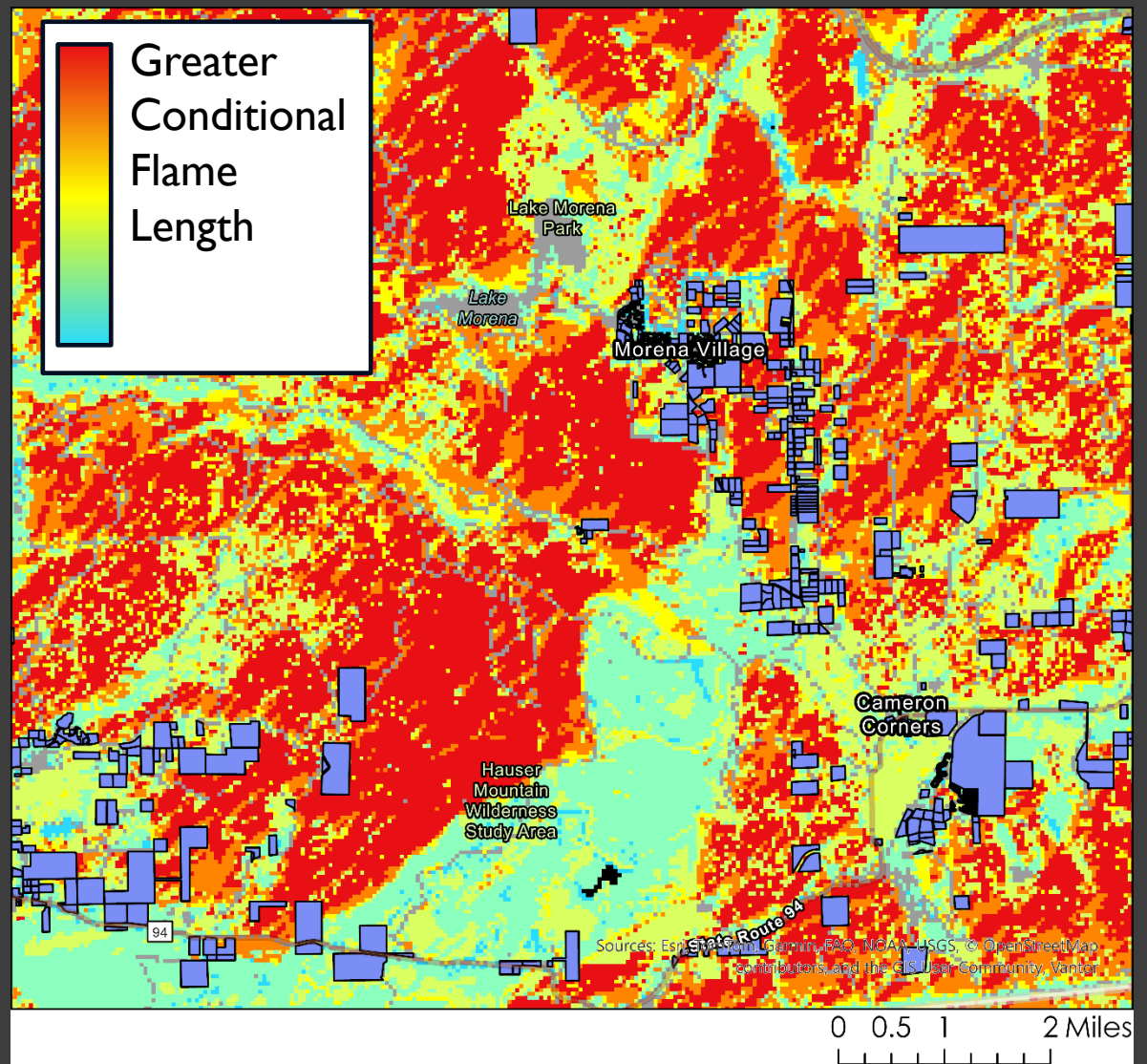
EVALUATING COST-EFFECTIVENESS AND BENEFITS BY WILDFIRE MITIGATION PROJECTS

- Hazardous Fuel Reductions/Fuel Breaks
- Early Alert and Warning Systems
- Home Hardening
- Infrastructure Hardening (IRC)

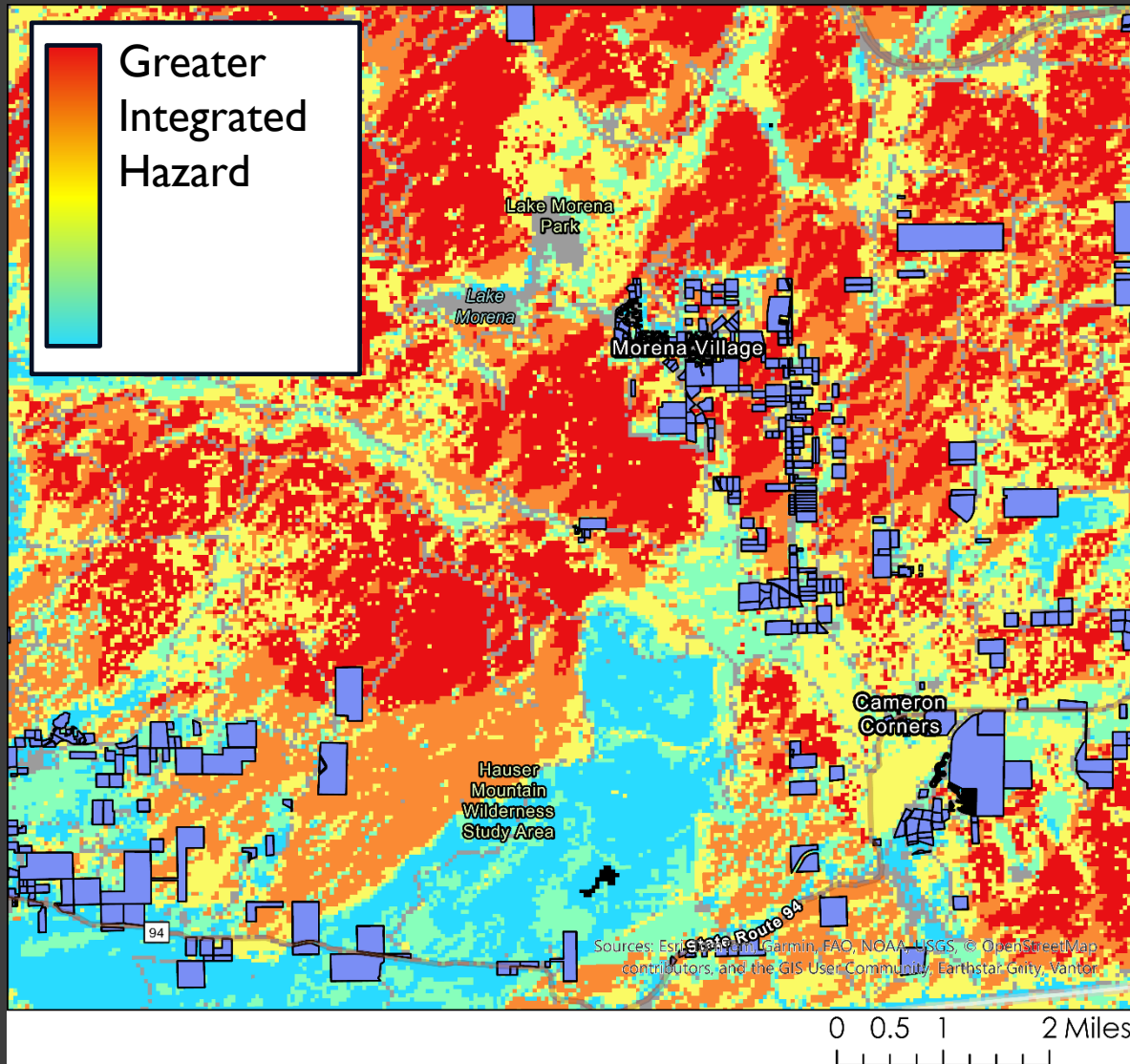
MODELING WILDFIRE HAZARD IN CAMPO (SAN DIEGO COUNTY, CA)



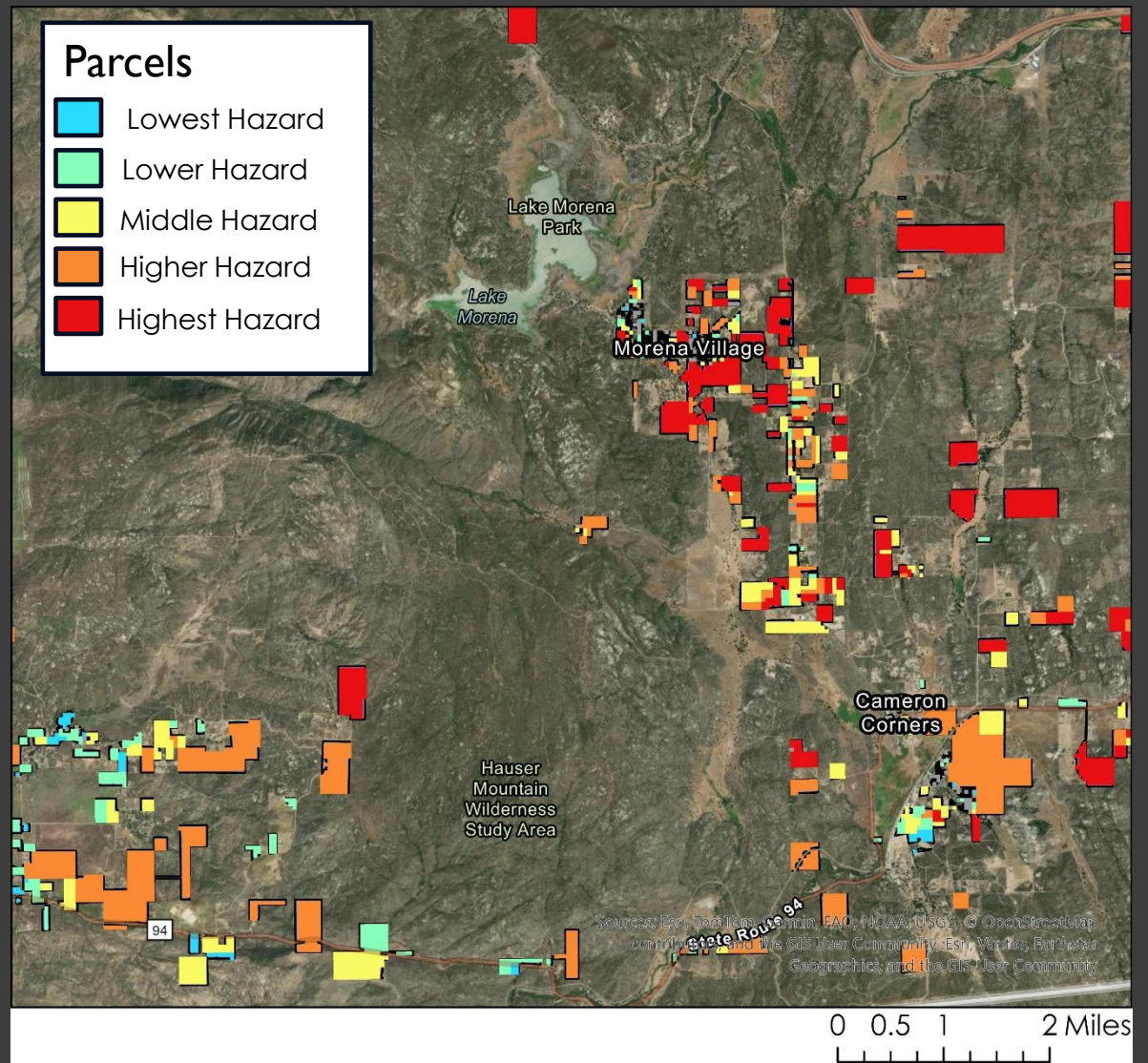
Burn Probability: How likely is it to burn?



Conditional Flame Length: If it burns, how intense?

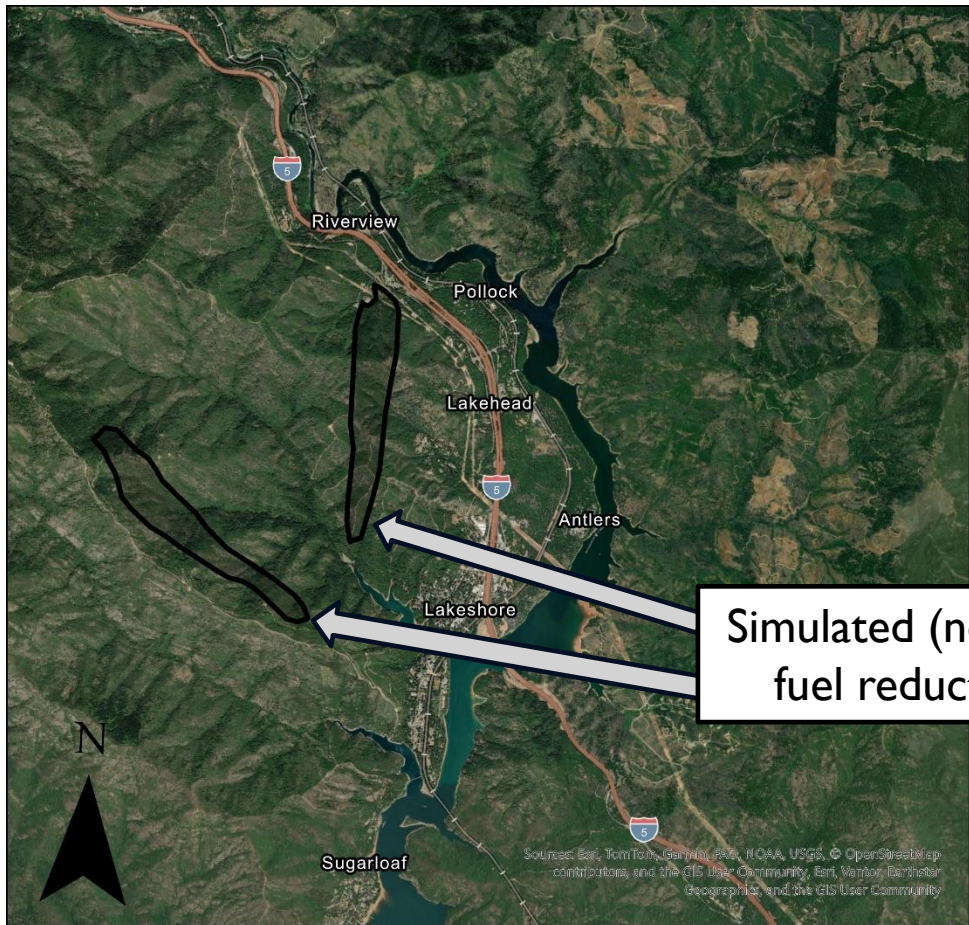


Integrated Hazard: Likelihood x Intensity

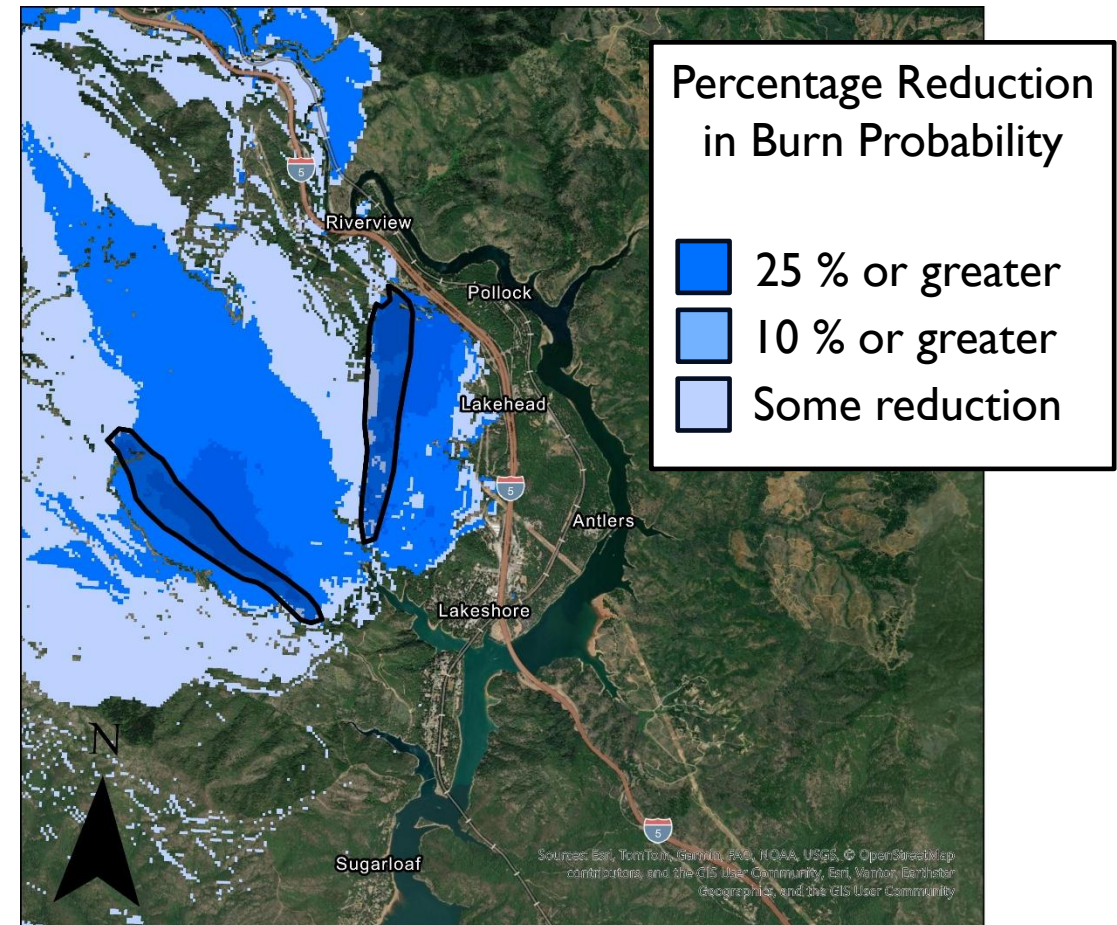


Hazard Exposure: Are homes exposed to wildfire?

HAZARDOUS FUEL REDUCTIONS AND FUEL BREAKS PRIMARILY REDUCE RISK BY REDUCING HAZARD (LIKELIHOOD & INTENSITY)



Simulated (not real)
fuel reductions



DEFENSIBLE SPACE AND HOME HARDENING PRIMARILY REDUCE RISK BY REDUCING VULNERABILITY (EXPOSURE & SUSCEPTIBILITY)



VULNERABILITY

EXPOSURE
(WILDFIRE / COMMUNITY
OVERLAP)

SUSCEPTIBILITY
(LIKELIHOOD OF DAMAGE)



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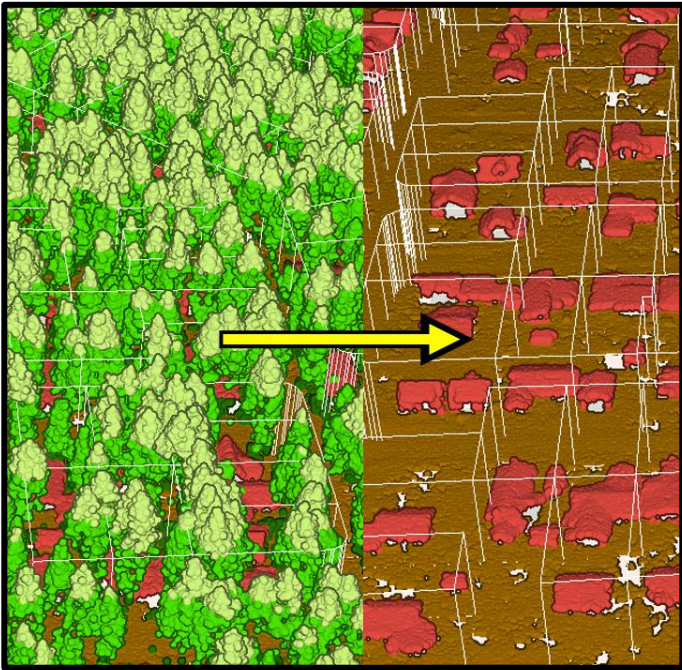


California Wildfire Mitigation Program

USING REMOTE SENSING FOR EVALUATING RISK

LIDAR ANALYSIS

Peer Through The Canopy

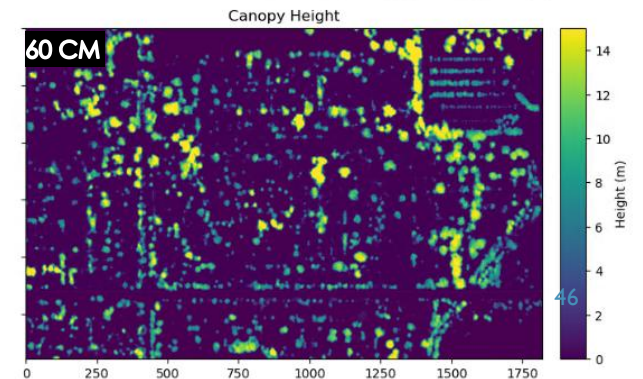
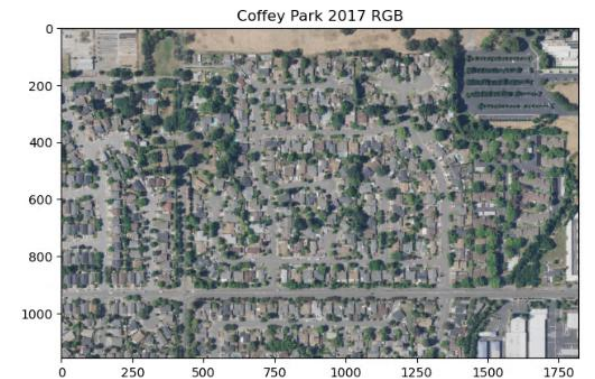


DAMAGE ASSESSMENT

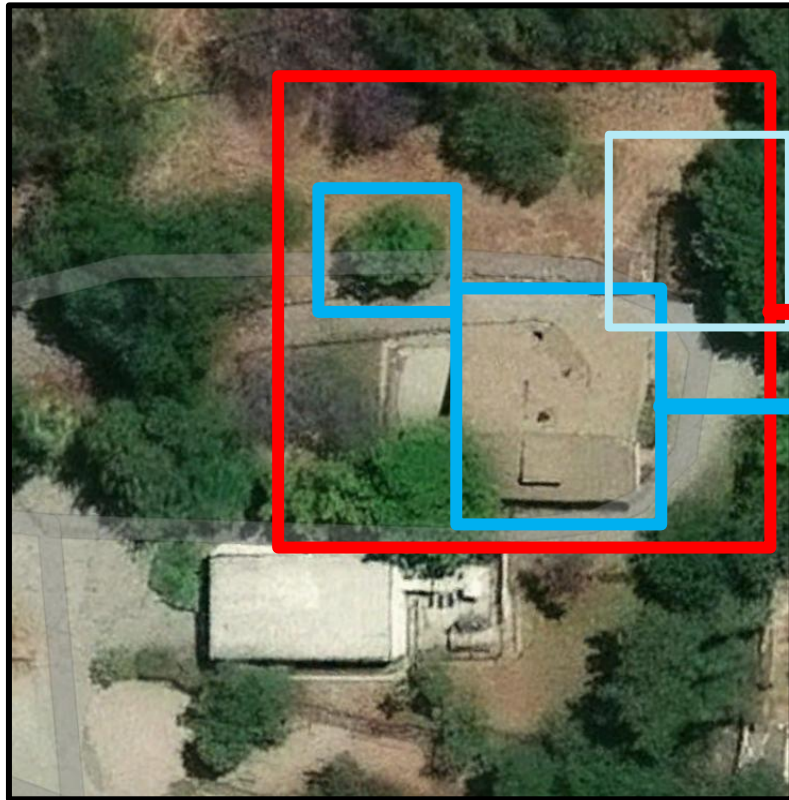


 Damaged  Not Damaged

HIGH-RES VEG MAPPING



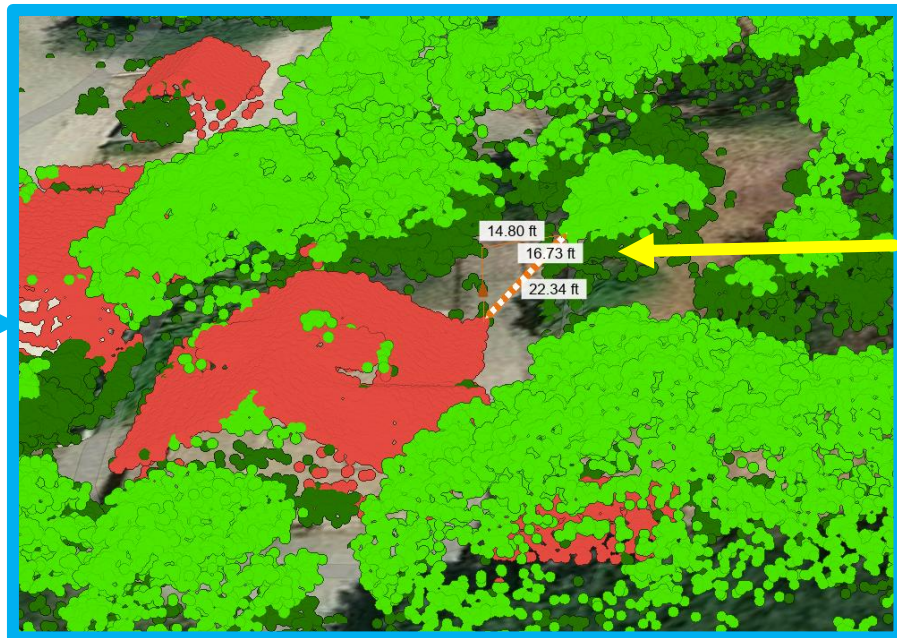
LIDAR DATA ANALYSIS



Azusa, California



Structures Occluded by Vegetation
Structure Separation Distance



Vertical and Horizontal Distances
Vegetation Separation Distance

STRUCTURE DATA SOURCES

Missing Structures

Missing and Generalized Structures



LiDAR-Based Buildings

Heavily Generalized Structures

- Parcels
- Lightbox
- Microsoft Building Footprints
- Overature Buildings

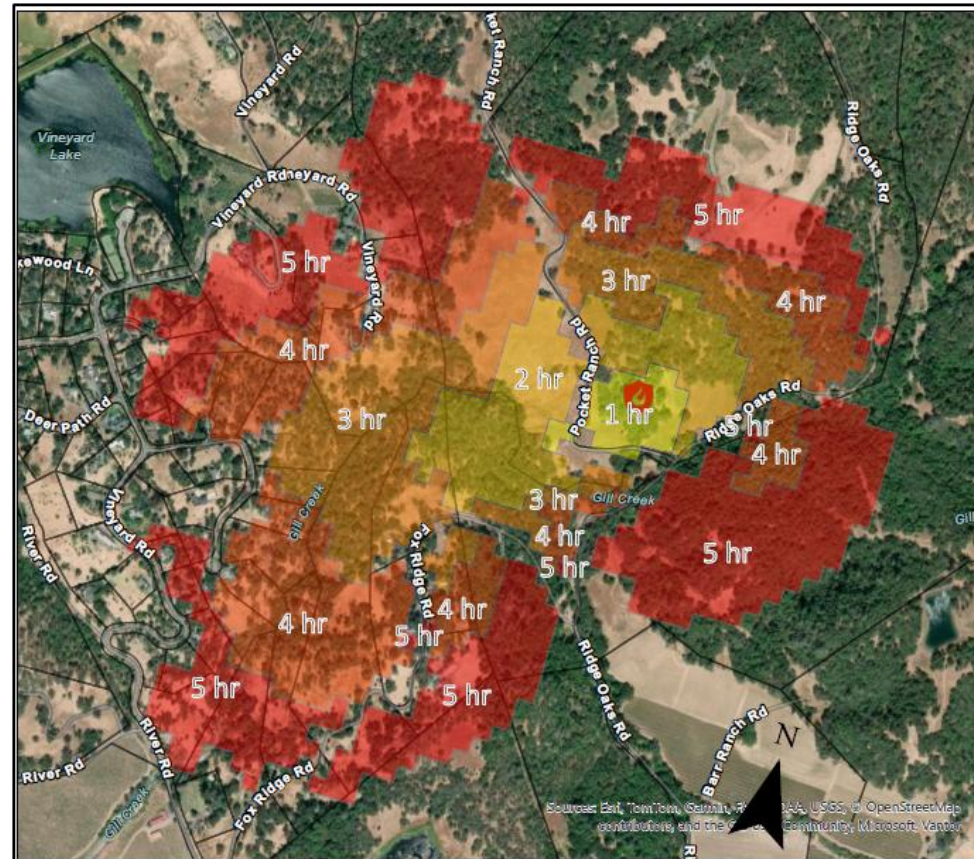
ULTRA HIGH DENSITY UAV-BASED LIDAR

YellowScan Explorer



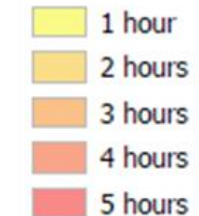
WILDLAND URBAN INTERFACE (WUI) FIRE MODELING TOOLS

- ELMFIRE WU-E: UC Berkeley
- SWUIFT: University of Buffalo
- Wildland Urban Interface Fire Modeling tools help:
 - Demonstrate benefits of community-level hardening (vs. individual property hardening)
 - Overcome limitations of fuel models built for wildlands
 - More accurately assess risk to structures and estimate benefits from hardening and defensible space actions
 - Simulating 10,000+ fire seasons with projected climate profiles



Pocket Fire
Ignition
Location

Simulated
Pocket Fire
Perimeter
(without
mitigation)



0 0.07 0.15 0.3 Miles

SEISMIC HAZARD - SOFT-STORY PROPERTIES

LIGHTBOX
PROFESSIONAL
500+ ATTRIBUTES

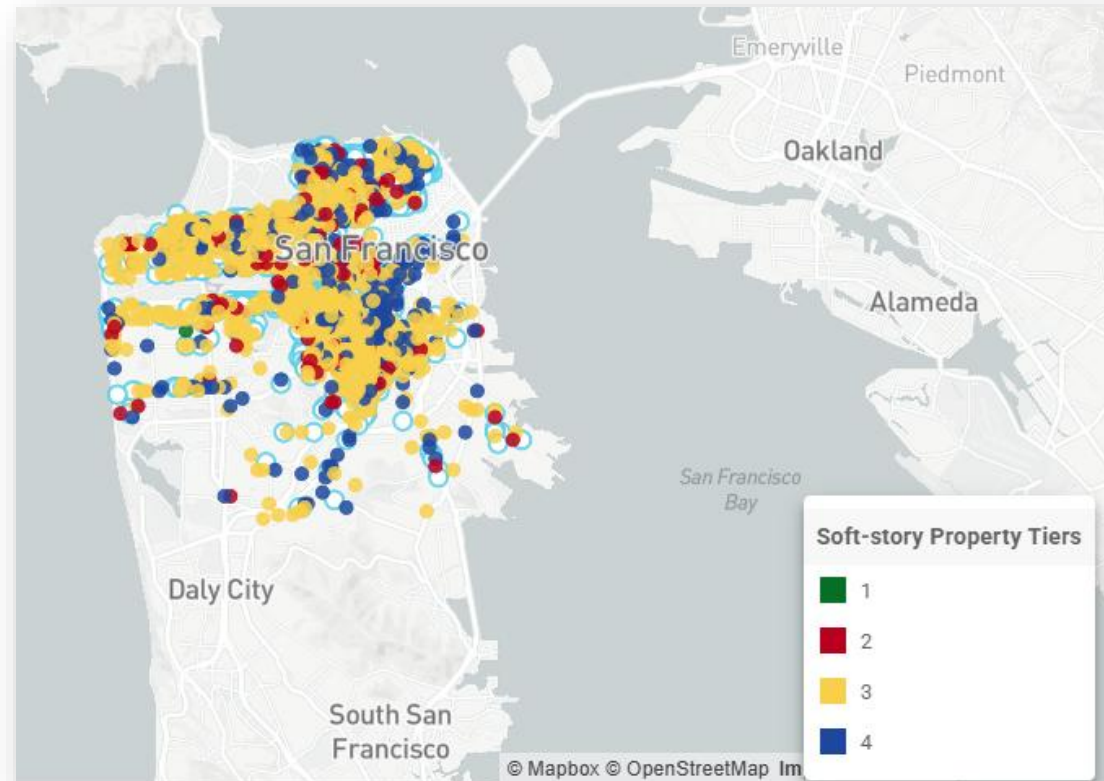
PARCELS

ASSESSMENTS

BUILDINGS

ADDRESSES

SOFT STORY
PROGRAM



AUTOMATED DASHBOARDS

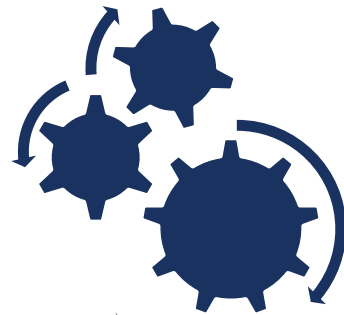
Source 1

	unique_ID	program_ty
703	1628-46	HMGP
712		
721		HMGP
731		HMGP
731		HMGP
732		HMGP
733	1731-PJ0085	HMGP
734	1731-66	HMGP
738	1810-PJ0021	HMGP
748	1810-PJ0013	HMGP

Source II

F	Financial Closeout
C	Active Payment
C	Compliance Verification
C	Compliance Verification
F	Active Payment
	Closed
	Closeout FEMA
	Closed
	Closed
	Closed
	Closeout FEMA

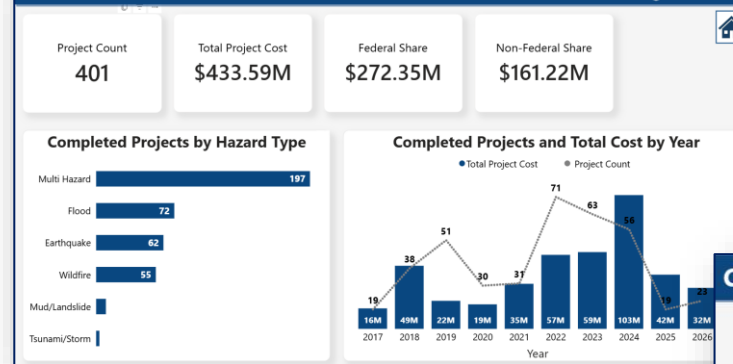
Transform



Load

Extract

Completed Projects Since 2017



Analyze

Hazard Mitigation Assistance Section Dashboard

Project Closeout & Status Reports

- Closeout Report
- Completed Projects
- Subawards Closed By FEMA Pending Financial Closeout
- Withdrawn Projects
- Subawards Closed by OES Pending FEMA Review

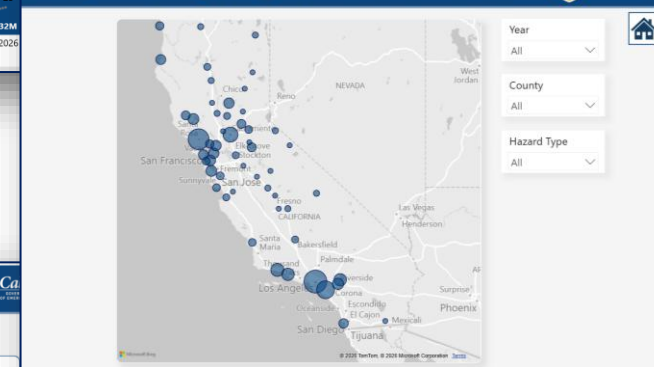
Completed Project Analytics

- Completed Project by Location
- Loss Avoidance Studies Overview
- Completed & Active Project Trend Tracking
- Cumulative Completed and Active Projects
- New Completed and Active Projects

Active Project Analytics

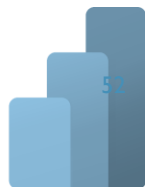
- Active Projects
- Non-Active Project Analytics
- Non-Active Projects

Completed Project by Location Since 2017



Destination

Power BI



BIG DATA TRANSFORMATION AND ANALYSIS USING SQL

Sub Query:
Missing Values
Duplications
Logical Validation
Outliner Detection

Query 3: Quality Check

```
SELECT COUNTY,  
       COUNT(*) AS single_story_  
FROM DEV_LANDVISION.LATEST.BUILD  
WHERE BF_STORIES_NUMBER = 1  
GROUP BY COUNTY  
ORDER BY single_story_buildings
```

Query 4: Filter Subset

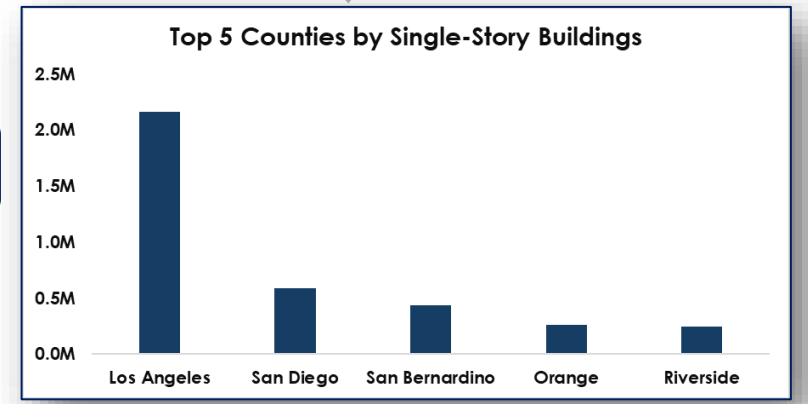
Query 2: Data Volume

Query 1: Data Preview

Query 5: Aggregation

BUILDING_LID	FIPS_CODE	COUNTY	AREA_SQFT	HEIGHT_MIN_FT	HEIGHT_AVG_FT
0505P09M51QS1Q08...	06001	Ala...	258.51... 3339.4...	1.13750... 6.09321...	9.36957... 19.0214...
0505P09M51QS1Q08M8FE9K	06001	Alameda	1231.801630315	null	null
0505P09U6I9FMVTZYWRKFV	06001	Alameda	1918.78637485	null	null
0505P0CS9669LUDXBING17	06001	Alameda	1510.157954901	null	null
0505P0FCDOHYIOTT09OV0	06001	Alameda	2385.175221548	null	null
0505P0FGTPL3HSTRQKH32Y	06001	Alameda	258.518338124	4.661868587	9.369570206
0505P0FKJJC1XCKB22O9EY	06001	Alameda	1653.048301755	1.137501763	16.510616082
0505P0GMUYPOOVTOV4WN86	06001	Alameda	861.019380791	null	null
0505P0HY6BQSOCHF6A18RE	06001	Alameda	804.374298722	6.093213904	19.021426672
0505POLH4P4FKVUBRQBPAU	06001	Alameda	552.56452384	null	null
0505P0M127R2YZZ6WFFW97	06001	Alameda	1628.543346636	null	null

End-to-End Data Transformation



CURRENT AND FUTURE COLLABORATION

- CWMP Report to the Legislature
 - Home Hardening vs other Fire Mitigation Projects Evaluation
 - Program Overall Risk Reduction Evaluation
- Loss Avoidance Studies on completed CWMP projects
- CWMP Dashboard Studies (Power BI)
- Querying Large-Scale Datasets Using SQL
- Risk Reduction Assessment of Project Locations (LiDAR)

GOAT ANY QUESTIONS FOR US?



Review and Consider Revisions to the CWMP Meeting Schedule

SECTION 3. CWMP

C. Meetings of Board

{1} Regular Meetings and Special Meetings. The Board shall hold no less than one regular meeting per quarter of a year, and by resolution, may provide for holding regular meetings at more frequent intervals. The date, hour, and place of each such regular meeting shall be fixed by resolution of the Board. The chairperson or vice chairperson of the Board, or a majority of the members of the Board, is authorized to call a special meeting of the Board on the date, and at the hour and place, fixed by notice to all Board members.

CWMP Board of Directors Public Meeting

Meeting Schedule

- Next meeting is May 19, 2026, 10:00 AM
- 715 P Street, 2nd Floor Conference Room 2-221, Sacramento, CA 95814

Board Member Comments

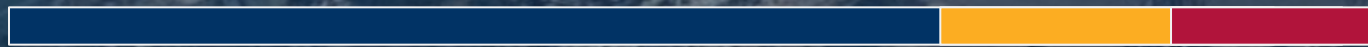
Public Comment

Adjournment



California Wildfire Mitigation Program Authority

Home Hardening Initiative



CWMP Board of Directors Public Meeting