

# Sacramento Metro Fire Stakeholder Meeting November 13

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# Agenda

- Review of Community Wildfire Protection Plan Planning Process
- Accomplishments to date
- Lunch
- Risk Factors and Weights
- List of Projects, organized by Prevention, Preparedness, Response, Recovery
- Additional Projects
- Next steps

## CWPP

Community Wildfire Protection Plan  
Sacramento Metro Fire



Prepared by Ascent Environmental, Inc.  
Intterra Group  
Wildland Res. Mgt

Funded by FEMA  
Grant #XYZ

In conjunction with  
Stakeholder Committee Members

# CWPP Process

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- Gather stakeholders
- Establish a Community Base Map
- **Identify wildfire risks in the District**
- **Develop a set of projects to reduce risks**
  - Fuel (vegetation) mitigations
  - Structural ignition mitigations
  - Emergency response enhancements
  - Changes to codes, public education, incentives for property owner action
- Prioritize projects
- Determine roles and responsibilities, and funding
- Monitor, adapt, improve, update plan

# Community Base Map

## Legend

### Fire Station



County Boundary



Parks



Sac Metro District Boundary



### City Boundaries

#### NAME

CITRUS HEIGHTS



ELK GROVE



FOLSOM



GALT



ISLETON



RANCHO CORDOVA



SACRAMENTO



### State Responsibility Areas

#### Responsibility Areas



Federal



State

### Land Ownership (2011)

#### Jurisdiction

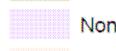
City



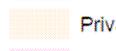
County



Federal



Non Profit



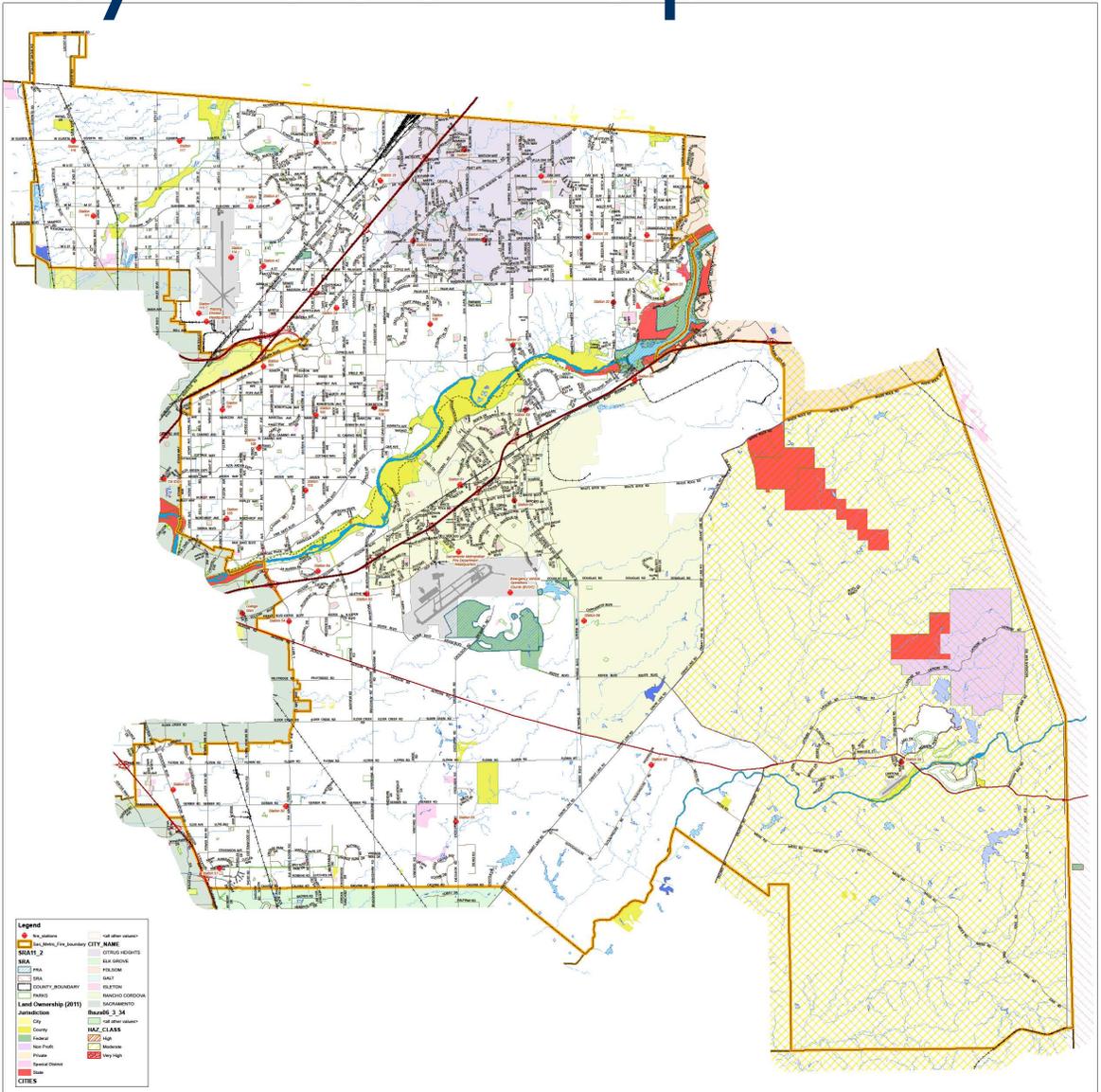
Private



Special District

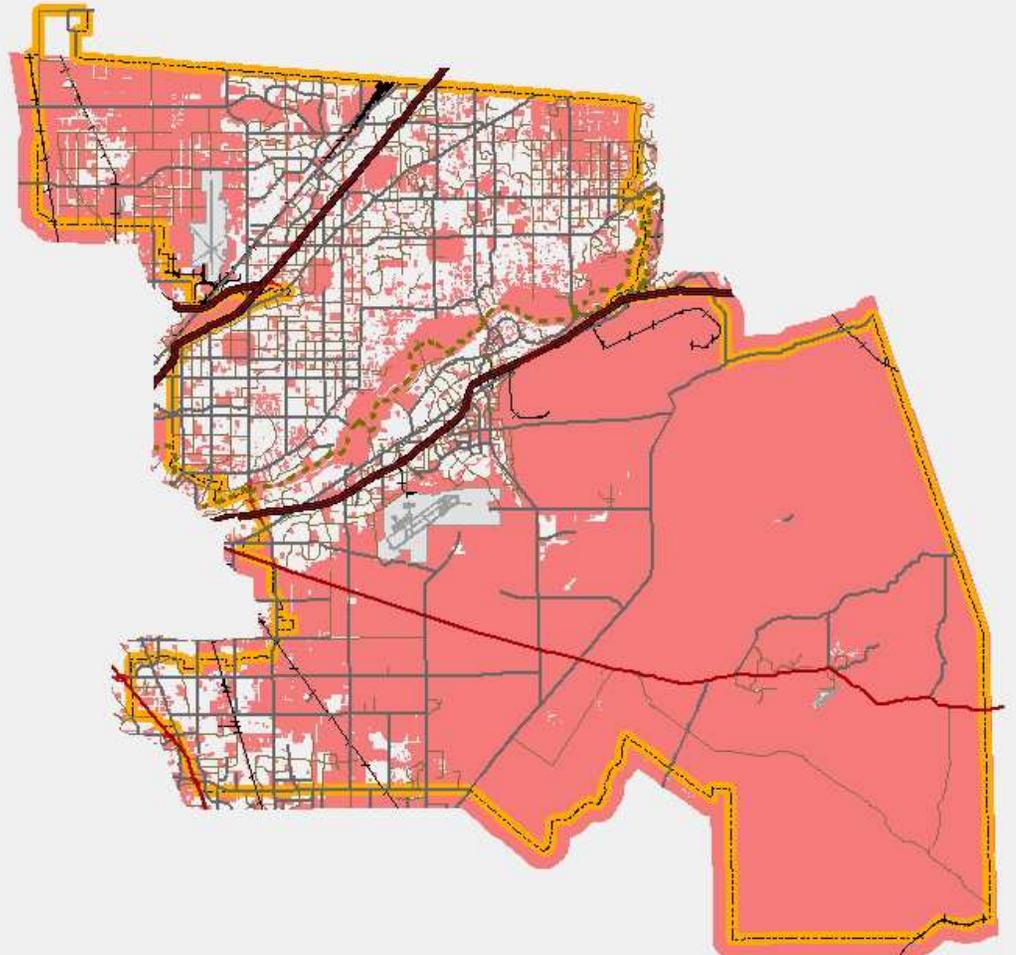


State



# WUI Delineation

- **Include**
  - all parcels larger than .5ac
  - any parcel larger than 80acres
  - 1000ft buffer around parcels larger than 80acres
- **Do NOT include:**
  - any parcel where natural vegetation covers less than .5ac
  - any parcel where no natural vegetation is present



# Geoportal Progress

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## PART 2



# Risk Model – Parcel based, data driven

**Orange  
County  
Fire  
Authority**

<b>WILDFIRE ATTRIBUTE MENU</b>			
<b>BUILT ENVIRONMENT</b>	<b>NATURAL ENVIRONMENT</b>	<b>SOCIAL SYSTEMS</b>	<b>SUPPRESSION</b>
Above ground utilities	Wildfire behavior rating	Age of occupant	Access / ingress / egress
Balcony and deck	Fuel model	Occupancy (absentee owner)	Address or lot identification
Defensible space	Slope / elevation / aspect	Education of occupant	Response time
Eaves, overhangs and vents	Adjacent dangerous topography	Income of occupant	Primary road grade
Firewood storage location	Weather (severe wind, drought)	Population density	Primary road width
Propane location	Adjacent vegetation density	Property value	Fixed water source (hydrant)
Roof material	Weather (lightning strikes)	Zoning designation	Draft water source
Siding	Fire history	Historic structures	
Windows and doors	Sensitive habitat		
Construction type			
Structure density			

## **SELECTED**

*When selecting attributes consider rigor and data collection strategy.....*

<b>BUILT ENVIRONMENT</b>	<b>NATURAL ENVIRONMENT</b>	<b>SOCIAL SYSTEMS</b>	<b>SUPPRESSION</b>
Year of Construction	Sensitivity to Special/ Valued Habitat	Cultural Resource Areas	Water Sources/Hydrants
Roof Material	Slope/Aspect	Homeowner Participation in Educator/Mitigation	Road Width
Defensible Space	Proximity to Wildland Vegetation		Response time
Position of Structure on Slope	Fire Behavior		Fire Breaks
	Vegetation Types		Wildland Pre-Plan

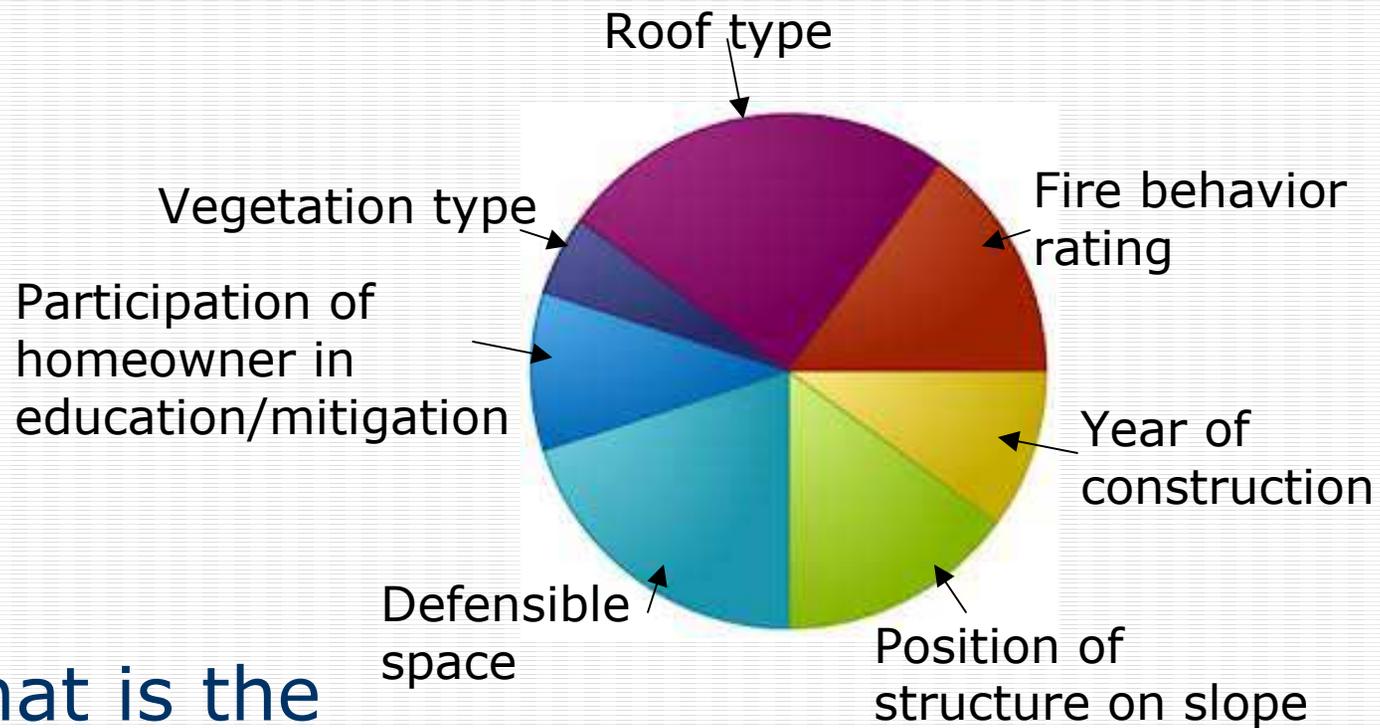
**Sacramento  
Metro Fire**

# Weights of Risk Factors - OCFA

Fire Hazard Severity Zone	--->>>	81	61	41	40
Siding	Non-IRM	10	0	0	0
Roof	IRM	-5	-5	-5	-5
Eaves	Non-IRM	5	0	0	0
Windows	Single Pane	5	0	0	0
Vents	Not Protected	10	5	5	5
Deck	IRM	0	0	0	0
Undersides of Deck	IRM	0	0	0	0
Landscape Vegetation Spacing	Does Not Comply	5	2.5	2.5	2.5
Landscape Vegetation Condition	Green and Watered/Fire or Drought Resistant/No Undesirable or Dangerous Vegetation	-5	-2.5	-2.5	-2.5
Perimeter Vegetation Management	30-100 ft of Vegetation Management or Fuel Modification	5	5	5	5
Fire Hydrants	Within 300 ft of Home	0	0	0	0
OCFA drive time	5 Minutes or Less	0	0	0	0
Pre-Fire Plan	Yes	-2.5	-2.5	-2.5	-2.5
Access Road	Between 24 and 28 ft Wide	2.5	2.5	2.5	2.5
Parcel Design	Flat/Base of Slope	0	0	0	0
<b>PARCEL RISK RATING</b>		<b>111</b>	66	46	45

# Weights of Risk Factors –

Metro Fire



- What is the importance of each factor?

# What is the Relative Importance? Assign points, total = 100

<b>BUILT ENVIRONMENT</b>	<b>NATURAL ENVIRONMENT</b>	<b>SOCIAL SYSTEMS</b>	<b>SUPPRESSION</b>
Year of Construction	Sensitivity to Special/Valued Habitat	Cultural Resource Areas	Water Sources/Hydrants
Roof Material	Slope/Aspect	Homeowner Participation in Education/Mitigation	Road Width
Defensible Space	Proximity to Wildland Vegetation		Response time
Position of Structure on Slope	Fire Behavior		Fire Breaks
	Vegetation Types		Wildland Pre-Plan

# Category Boundaries

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- How bad is “bad”?
- Can be divided by broad categories (structure, natural, response, social)

## Structure Risk Rating

**RED = EXTREME FIRE RISK [41 or above]**

**ORANGE = VERY HIGH FIRE RISK [21 to 40]**

**YELLOW = HIGH FIRE RISK [01 to 20]**

**LT GREEN = MODERATE FIRE RISK [-19 to 00]**

**GREEN = LOW FIRE RISK [-40 to -20]**

# Initial Project List

PROJECTS	Prevention	Preparedness	Response	Recovery
Develop a means to enforce defensible space on private property in the WUI		X		
Hire staff to conduct defensible space evaluations, education		X		
Develop fire history database and associated maps	X		X	
Prepare a fire prevention plan that targets the ignitions behind homes on the ARP	X			
Install more Remote Automated Weather Stations				
Training fire department staff on RAWs operations, uses of weather data for fire prevention and response	X		X	
Form FireSafe Council (ala Napa County)	X	X	X	
Form agency-to-agency organization, ala Hills Emergency Forum to foster resource sharing, contract specifications, etc.				
Conduct joint training with cooperating agencies			X	
Expand pre-fire plans to include water supply, alternative access points, structure footprints, communications			X	
Obtain staffing, via grants (I.e., interns, students, SCC) to collect structure data		X		
Retrofit older Metro Fire stations, via grants as part of a demonstration project, addressing structural components and landscaping.		X		
Replace wood shake roofs in most risky locations with non-combustible coverings, via grant	X	X	X	
Support targeted compatible vegetation management in the ARP that reduces fire hazard (through funding, cooperative operations)	X	X	X	
Expand staffing to conduct fuel management and augment response		X	X	

# Initial Project List

PROJECTS	Natural	Built	Response	Social
Develop a means to enforce defensible space on private property in the WUI		X		
Hire staff to conduct defensible space evaluations, education		X		X
Develop fire history database and associated maps	X		X	
Prepare a fire prevention plan that targets the ignitions behind homes on the ARP	X			X
Install more Remote Automated Weather Stations			X	
Training fire department staff on RAWs operations, uses of weather data for fire prevention and response	X		X	
Form FireSafe Council (ala Napa County)	X	X	X	X
Form agency-to-agency organization, ala Hills Emergency Forum to foster resource sharing, contract specifications, etc.			X	X
Conduct joint training with cooperating agencies			X	
Expand pre-fire plans to include water supply, alternative access points, structure footprints, communications			X	
Obtain staffing, via grants (I.e., interns, students, SCC) to collect structure data		X		
Retrofit older Metro Fire stations, via grants as part of a demonstration project, addressing structural components and landscaping.		X		X
Replace wood shake roofs in most risky locations with non-combustible coverings, via grant		X	X	
Support targeted compatible vegetation management in the ARP that reduces fire hazard (through funding, cooperative operations)	X		X	
Expand staffing to conduct fuel management and augment response			X	

*Use comment cards, or offer ideas verbally*

# Additional Projects

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- What types of projects/activities would make fire less damaging to structures and/or wildlands?
  - Are there specific areas that should be targeted for fuel management?
- How can fires be better prevented?
  - Are there specific educational programs, prevention programs, or other management programs that should be implemented by Metro Fire?
- What can Metro Fire do to improve response to wildfires?
  - Cross agency training, implement use of hand crews, or develop a set comprehensive pre-fire plans?
- What might help the community recover after a wildfire?



# Next Steps

- Review meeting notes – OK to post on web?
- Review material posted on the Metro Fire website:
  - Agendas, powerpoint presentations, schedule, preliminary list of projects, meeting notes
- Add Projects
- Vote on relative importance of risk factors
- Consider being a champion or ambassador of a project

