

Climate Resilient Land Use & Housing Policies

*Thursday, September 2, 2021
2:00 – 3:30 pm*



Thank You for Joining!

Webinar Host & Moderator

Karalee Browne

Assistant Executive Director
Institute for Local Government



Today's Agenda

Welcome & Logistics

Setting the Stage

Presentations by:

- Erik De Kok, Deputy Director, Planning & Community Development, Governor's Office of Planning and Research (OPR)
- James Gore, Supervisor, Sonoma County
- Eric Nelson, Chair, Planning Commissioner, Dana Point / Vice-President of Community Development, Trumark Homes

Panel Discussion

Q&A

Upcoming Webinars & Wrap Up

How to Ask a Question During the Webinar

- All webinar participants will be on MUTE during the entire call.
- Please TYPE any questions into the question box at any time during the webinar.
- The moderator will read your questions during the question period at the end of the webinar.



Non-Profit, Non-Partisan & Here to Help

ILG is the non-profit training and education affiliate of...



**California Special
Districts Association**
Districts Stronger Together



LEAGUE OF
**CALIFORNIA
CITIES**

We provide practical and easy-to-use resources so local agencies can effectively implement policies on the ground.

ILG's Programs & Services

Program Areas

Leadership & Governance

Civics Education & Workforce

Public Engagement

Sustainable Communities



Services

Education & Training

Technical Assistance

Capacity Building

Convening

Our mission is to help local government leaders navigate complexity, increase capacity & build trust in their communities

Setting the Stage

Ongoing
through
June
2023

Statewide Housing Technical Assistance Program

Statewide and
Regional TA

Planning
Commissioner
Handbook



Trainings

Local Leader
Trainings

Today's Presenters

Erik De Kok
Deputy Director
OPR



James Gore
Supervisor
County of Sonoma



Eric Nelson
Planning
Commissioner
City of Dana Point



Climate-Resilient Land Use & Housing Policy

Institute for Local Government Webinar

September 2, 2021

Presented by:

Erik de Kok, AICP

**Deputy Director, Planning & Community Development
Governor's Office of Planning & Research (OPR)**



Towards a More Livable and Resilient California

Climate Change, Pandemic, and Related Crises

- Growing and compounding hazards and risks, especially in frontline communities who are most vulnerable
- We can no longer plan and build as if disasters and their impact will always be generally the same. We need to adapt and become more resilient.

• Housing Crisis:

- We need to build a lot more of it
- Diverse populations and changing needs
- Growing conversations about where and how to add more housing in a constrained and less-predictable future
- Regulatory streamlining and funding mechanisms making it easier to build housing
- We still have work to do at every level of government, and across sectors

Towards a More Livable and Resilient California

- **Transforming how we grow and manage change**
 - Balance a complex array of issues and community needs
 - Prioritize needs of most vulnerable populations
 - Increase community capacity to respond and recover when disaster strikes
 - Recognize that growth patterns of the past have created liabilities, no longer sustainable
- **Not just about good planning – We really need effective implementation**
 - Political will to follow through
 - Partnership and cooperation across jurisdictional lines and sectors
 - Adequate resources for planning, building, maintaining, monitoring, updating, etc.
 - Flexibility: things are changing fast, keep an open mind

State Planning Priorities (Gov Code 65041.1)

The state planning priorities, which are intended to promote **equity**, strengthen the **economy**, protect the **environment**, and promote **public health and safety** in the state, including in **urban, suburban, and rural communities**, shall be as follows:

1. Make it easier to do infill development in already-developed areas
2. Protect and conserve our natural and working lands
3. Encourage efficient development patterns outside of infill areas that minimize ongoing costs to taxpayers

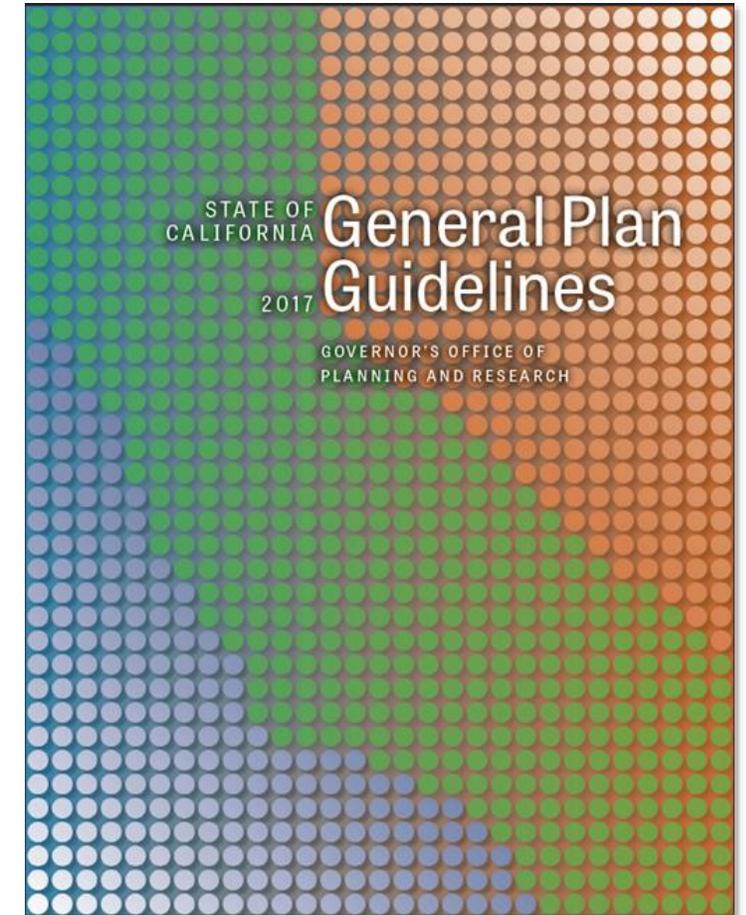
General Plan Elements

Required Elements

- Land Use
- Circulation
- Housing
- Conservation
- Open Space
- Noise
- Safety
- Air Quality*
- Environmental Justice*

Topical Considerations

- Climate Change
- Public Health
- Equity
- Resilience
- Economic Development
- Community Engagement
- Implementation



Safety Element: New Requirements and Incentives

- **SB 1241 (2012)** – new wildfire requirements
- **SB 379 (2015)** and **SB 1035 (2018)** – climate vulnerability assessment, adaptation strategies, update every 8 years
- **AB 747 (2019)** and **SB 99 (2019)** – evacuation routes
- **AB 2140 (2006)** – post-disaster funding incentive eligibility IF a local agency adopts a local hazard mitigation plan by reference into safety element

General Plan Guidelines and Technical Advisories

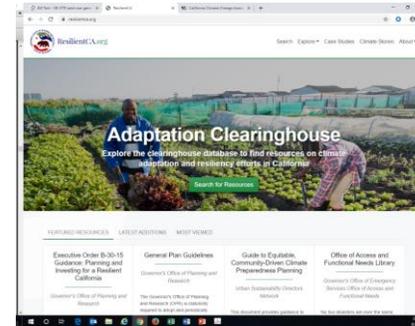
- **2017 General Plan Guidelines**
 - Chapter 4 (Required Elements – Safety Element)
 - Chapter 5 (Equitable and Resilient Communities)
 - Chapter 8 (Climate Change)
- **SB 1000 Guidance (June 2020)** – supersedes EJ section in 2017 GP Guidelines
- **Fire Hazard Planning Technical Advisory Update** (Nov 2020 Draft, Final Draft TBD)
- **Evacuation Routes Technical Advisory** (in progress, draft late 2021)

All of these documents can be viewed/downloaded from OPR's website at:

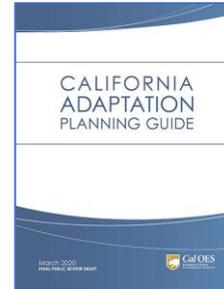
<https://opr.ca.gov/planning/general-plan/guidelines.html>

Adaptation Planning Resources

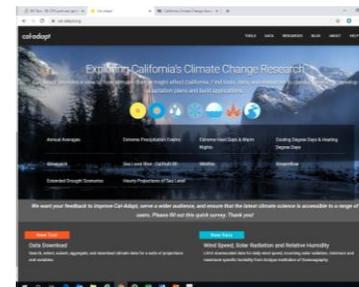
Adaptation Clearinghouse
(resilientca.org)



Adaptation Planning Guide
(resilientca.org/apg)



Cal-Adapt (cal-adapt.org)





Northern California Fire Siege - Sonoma County

James Gore

County Supervisor, Sonoma County CA

President, California State Association of Counties

National Association of Counties: Programs & Services Committee, Large Urban Counties Caucus, Rural Action Caucus, Resilient Counties Advisory Board

Board Member - Resilient America Roundtable



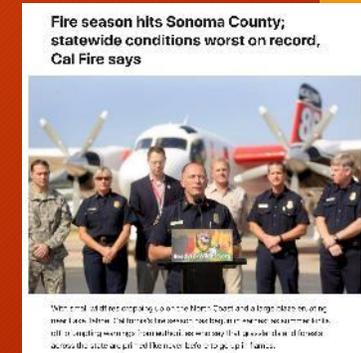
Trial by Fire, Flooding & Drought



Drought
March 2014



Flash Flooding
December 2014



Early Fire Season
June 2015



Valley Fire
September 2015



High Wind, Flooding
December 2015



Wildfire
September 2016

Trial by Fire, Flooding & Drought (cont'd)



Flooding
January 2017



Flooding
April 2017



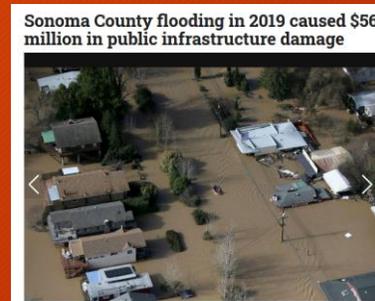
Extreme Heat
September 2017



Sonoma Complex Fires
October 2017



Kincadee Fire
October 2019



Floods
2019

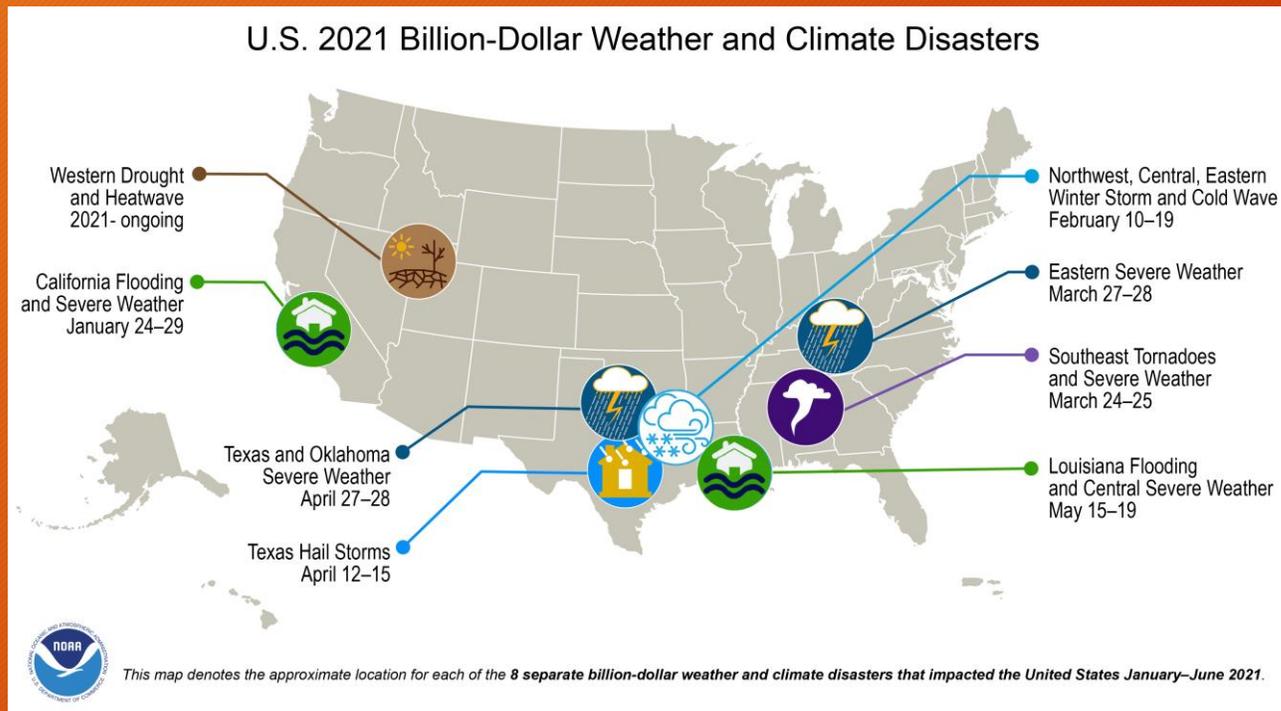


Walbridge Fire
August 2020

The New Normal

The last few years have been historic, with the annual average number of billion-dollar disasters being more than double the long-term average.

The number and cost of disasters are increasing over time due to a combination of increased exposure, vulnerability, and the fact the climate change is increasing the frequency of some types of extremes that lead to costly disasters.



Sonoma Ready

Alert and Warning

- Developed new alert and warning program
- Dedicated alert and warning staff
- Maximized system capabilities
- Integrated bilingual messaging
- Expanded public outreach
- Multi-jurisdiction alert and warning committee
- Increased subscribers
- Expanded fire watch camera network
- Continual assessment and improvement



Vegetation Management

- Roadways and Tree Removal
- Public/Private Land Resources
- Fuel Breaks and Prescribed Burns; geospatial data
- Expanded fuels reduction
- Landscape Resiliency Campaign
- Hazardous Vegetative Fuels Inspections



Community Preparedness

- Dedicated Community Preparedness Staff
- Community Outreach Plan
- Access & Functional Needs Committee
- Community Preparedness Events
- Disaster Preparedness Fair
- Community Evacuation Planning



Sonoma Ready (cont'd)



Emergency Management/EOC

- After Action Reports
- Realigned Organization
- 24/7 Duty Officer
- MOU Social Services Mutual Aid
- Shelter Council
- Animal Disaster Response Plan
- Increased Red Flag fire staffing
- Information Sharing Software



FEMA BRIC Grant Award

- President Biden announced \$37m FEMA BRIC Grant
- \$13m PG&E funds local match
- Vegetation Management
- Fire fuel reduction
- Shaded fuel breaks and green belts
- Wildland Inward protective buffers



Hazard Mitigation Grant Submissions

- Natural Resources Planning and Restoration - \$10m
- Early Detection and Warning - \$7.9m
- Flood Elevation - \$1.8m
- Road Improvements and Seismic Retrofits - \$3.1m
- Backup Power - \$1.2m
- Home Hardening and Defensible Space - \$6.7m
- Mitigation Planning - \$150k

New Sonoma County government office will focus on wildfire recovery, resiliency



Jeff Okrepkie is organizing his Espresso Court neighbors in Coffey Pt. devastated by Tubbs Fire. (JOHN BURGESS/ PD)

J.D. MORRIS
THE PRESS DEMOCRAT | Decem
Follow this story

Weather balloons in Sonoma County carry forecasting promise

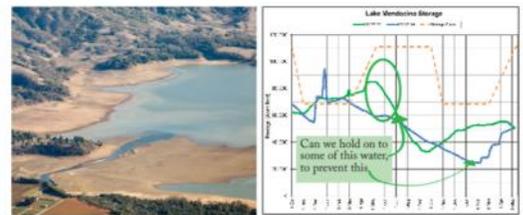
Sonoma County supervi
government office to he
year's devastating wildfi
vision for the long-term



DEVELOPING RESILIENCY FOR DROUGHTS & FLOODS: FORECAST-INFORMED RESERVOIR OPERATIONS

Summer 2016

PROJECT PARTNERS



BACKGROUND Lake Mendocino, located on the East Fork of the Russian River, in Mendocino County, California has a total storage capacity of 122,500 acre-feet. Lake Mendocino was created by Coyote Valley Dam (CVD), which was constructed in 1958 for flood control, and provides water supply, recreation and stream flow. The US Army Corps of Engineers (Corps) owns the project and makes flood control releases in accordance with the Water Control Manual. Sonoma County Water Agency (SCWA) is the local partner and controls releases when levels are in the water supply pool.

Think Global... Act Local

County leaders launch drought-awareness campaign



New electric car for less than \$10,000? Sonoma County makes it happen



Sonoma County Climate Resilience Team



Realizing a Potent Vision for Community-Scale Climate Action

What is the Climate Resilience Team? An internationally recognized public-private coalition accelerating local climate action across sectors and creating a transferable model for communities worldwide.

Climate Resilience Team Founders: Sonoma County Water Agency, Regional Climate Protection Authority, Pepperwood Preserve, USGS, Earth Knowledge and

Need: Climate
Economic Foru

1. Failure to
2. Extreme
3. Natural d

Sonoma County climate change initiatives honored by White House

ANGELA HART
THE PRESS DEMOCRAT | December 3, 2014
Follow this story

The White House has recognized and reduce greenhouse gas emis the Obama administration as a l
Wednesday's announcement high nation's first local government as



Sonoma County's Journey on the Roadmap to Resilience

KAREN CLEMMER (ACES CONNECTION STAFF) 7/12/18 @ 10:11 AM



Sonoma County preparing for critical climate changes



New report credits Sonoma Clean Power with reducing greenhouse gas emissions



Sonoma County has marked two consecutive years of reduced greenhouse gas emissions, with output reported below 1990 levels in both 2015 and 2016, due in large part to the rollout of Sonoma Clean Power and its greater reliance on cleaner sources of electricity.

Sonoma County greenhouse gas emissions

James Gore, new chairman of Sonoma County Board of Supervisors, says fire recovery demands 'shock and awe progress'



The Sonoma County Board of Supervisors, James Gore, conducts a ceremony honoring the October wildfires in front of the supervisors chamber in Santa Rosa on 10/18/18 (The Press Democrat)





Eric Nelson

Vice President of Community
Development, Trumark Homes

Chair, Dana Point Planning Commission

CLIMATE RESILIENT LAND USE AND HOUSING POLICY



© 2004-2010 Kenneth & Gabrielle Adelman.

An aerial photograph of a frozen body of water, likely a lake or sea. The image shows large, irregular ice floes in shades of white and light blue, separated by narrow channels of open, turquoise water. The overall scene is a high-contrast, textured landscape of ice and water.

Coastal High Hazards

Floodplain Resilience Policy



Parking Lot

Restroom

Basketball
Court

2003

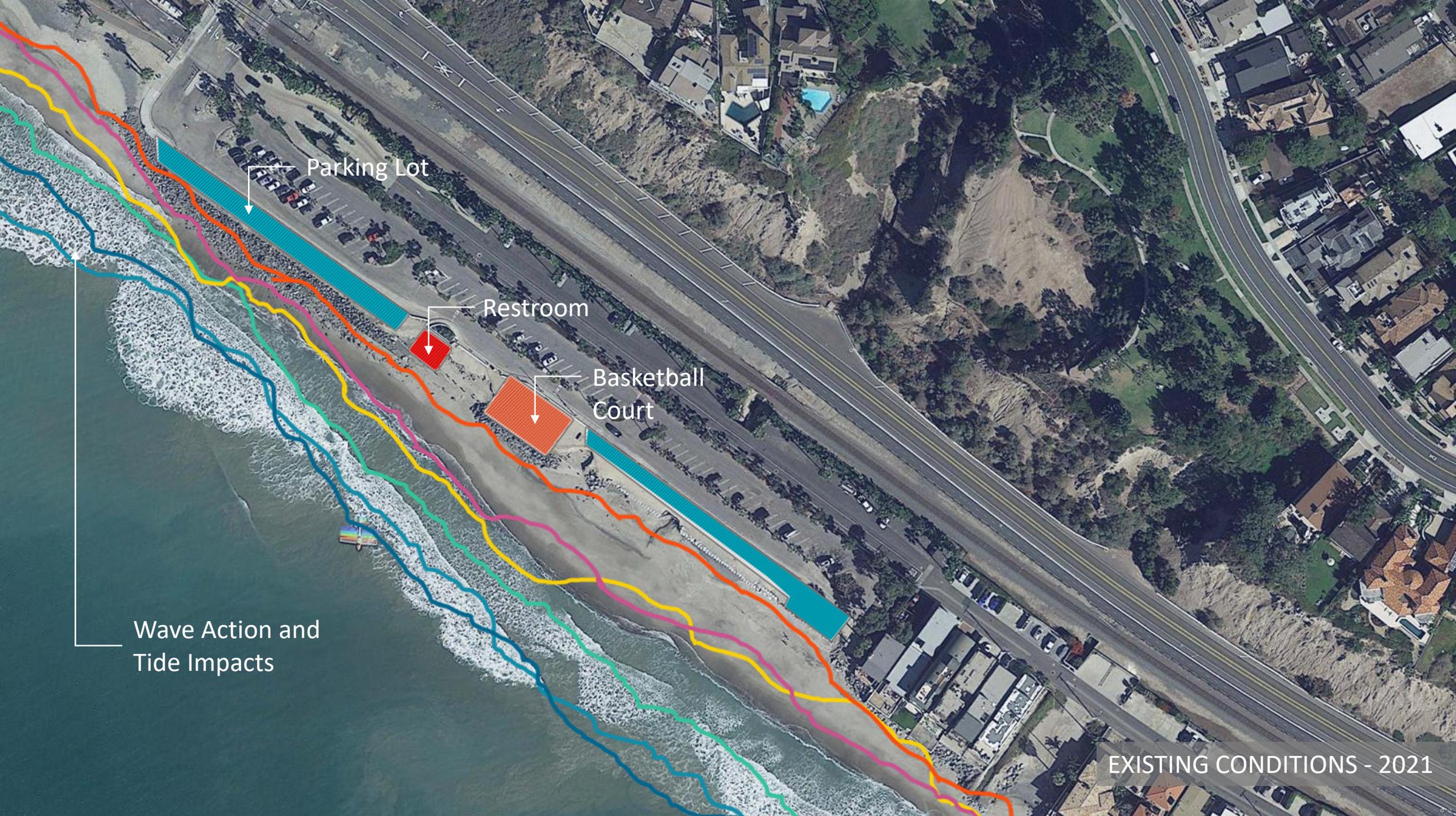


Wave
Protection
Barriers

2011



EXISTING CONDITIONS - 2021



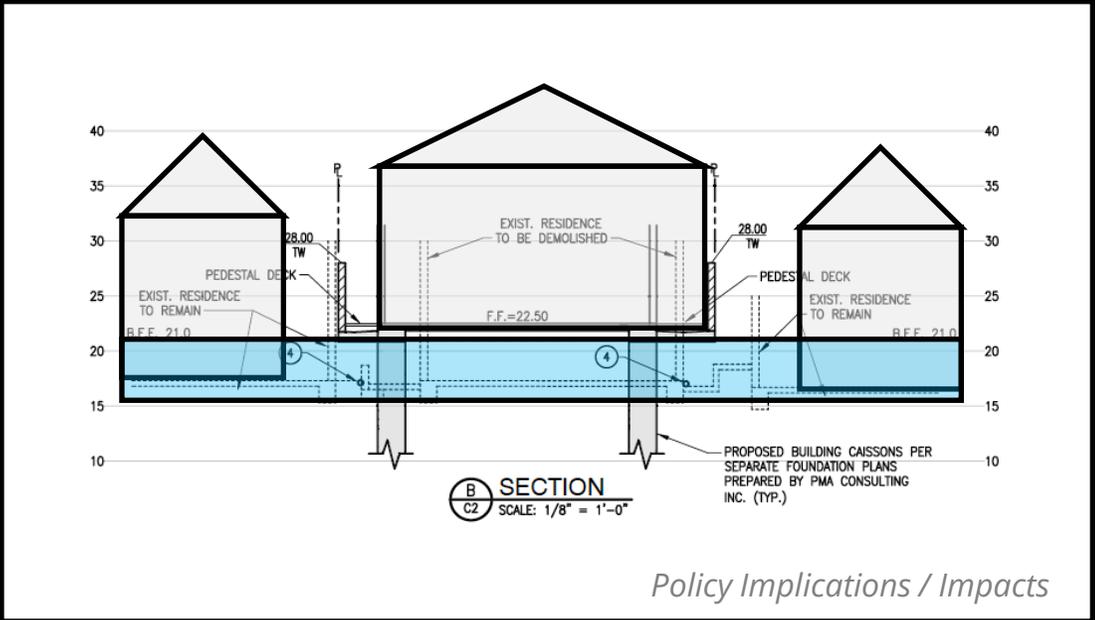
Parking Lot

Restroom

Basketball Court

Wave Action and Tide Impacts

EXISTING CONDITIONS - 2021

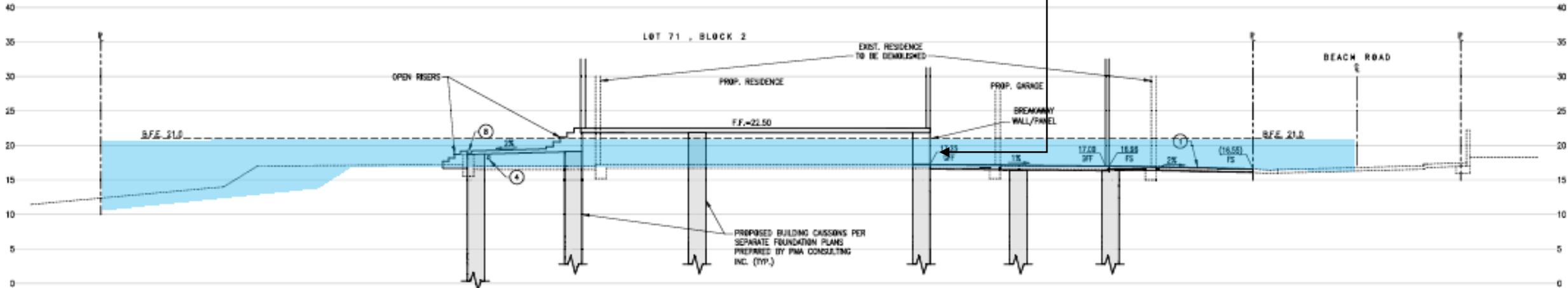


Policy Implications / Impacts

● *Building Pad on Caissons*

● *Open Risers Allow for wave and flooding*

● *Break Away Wall Panels (Garage)*



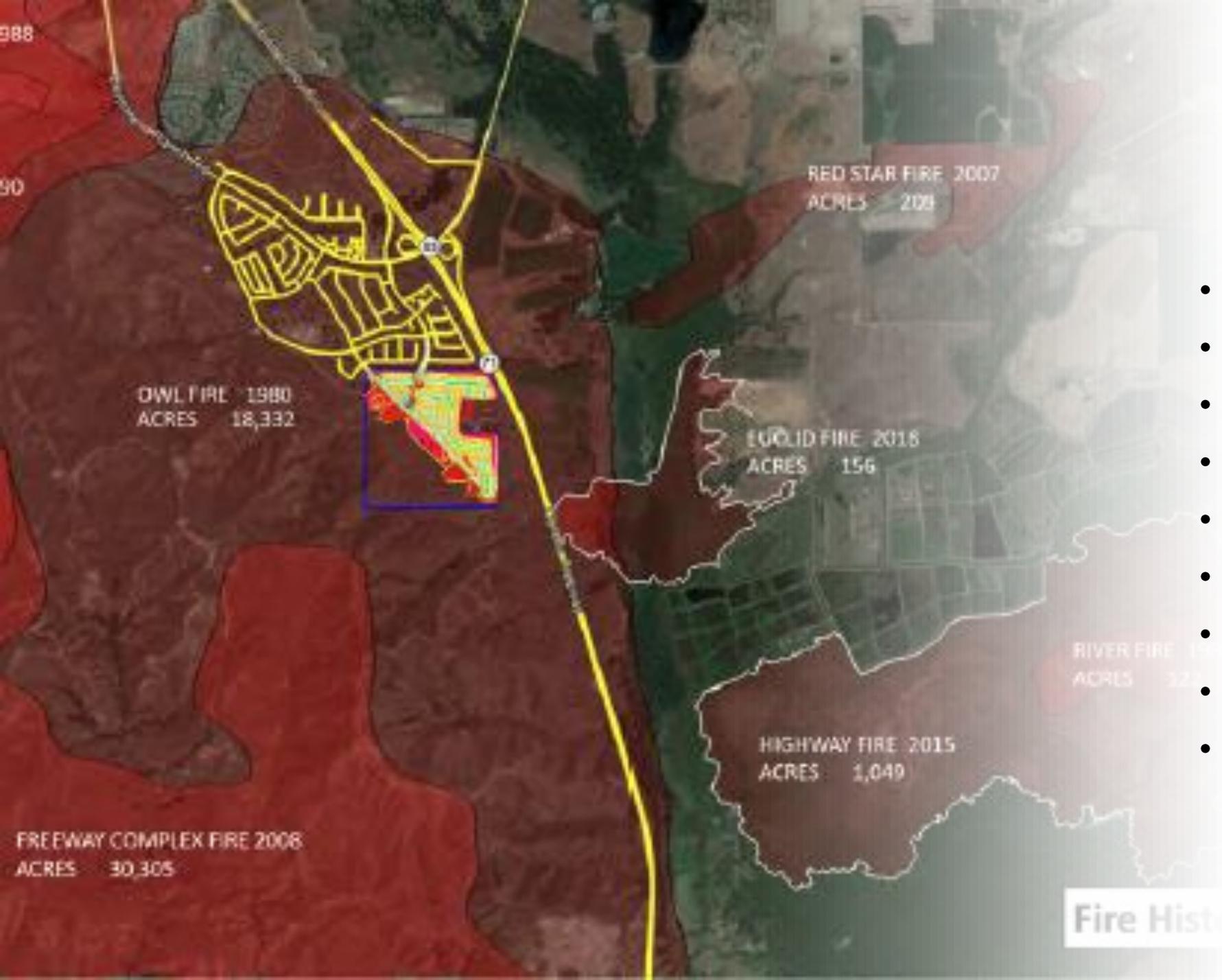


HIGH FIRE HAZARD SEVERITY ZONES

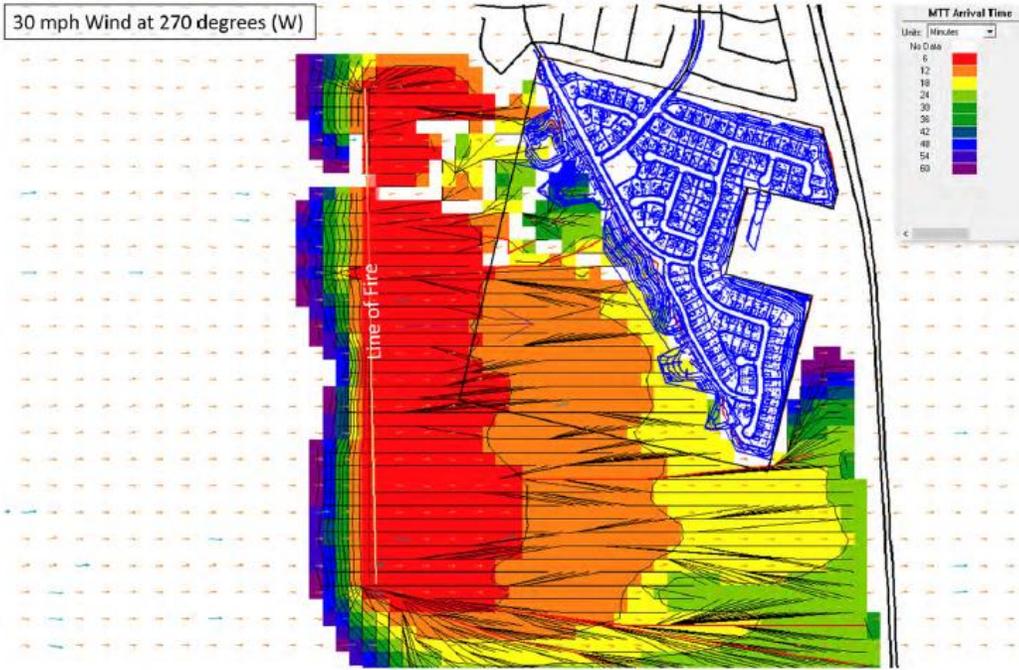
Wildland-Urban Design Interface

THINGS TO CONSIDER

- Location
- Fire Hazard Levels
- Topography
- Weather
- Vegetation
- Surrounding Property
- Transmission Lines
- Fire History
- Access



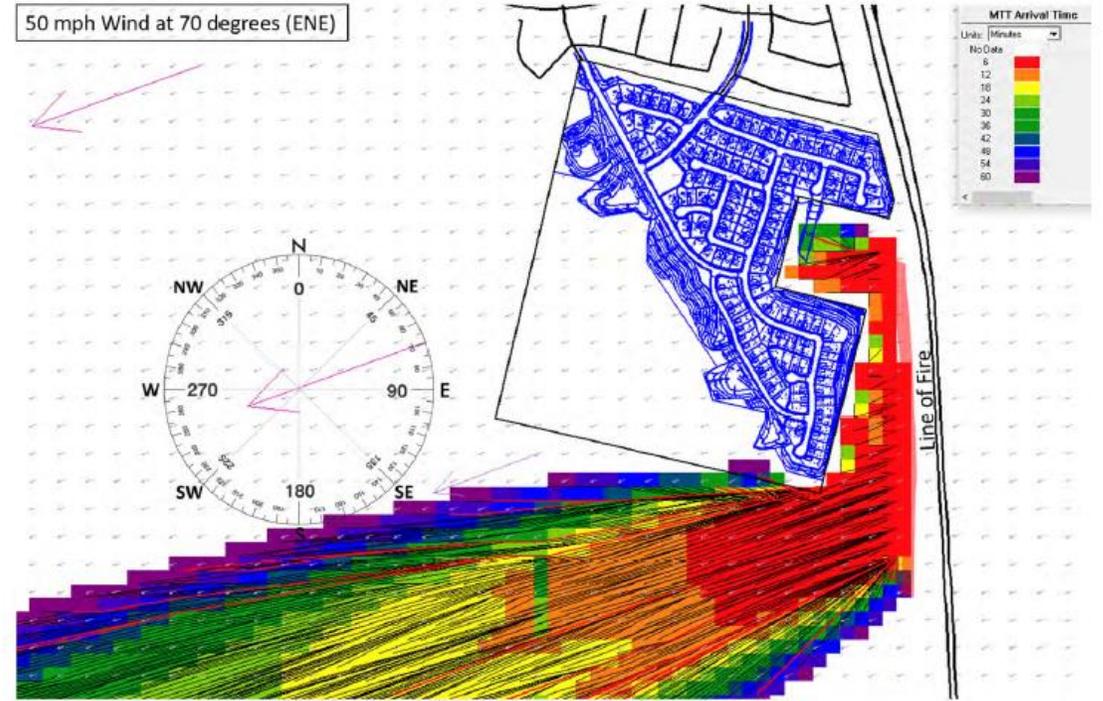
30 mph Wind at 270 degrees (W)



Line of Fire from the West – Arrival Time

Red Lines are Major Fire Travel Path/Black are Minor Path

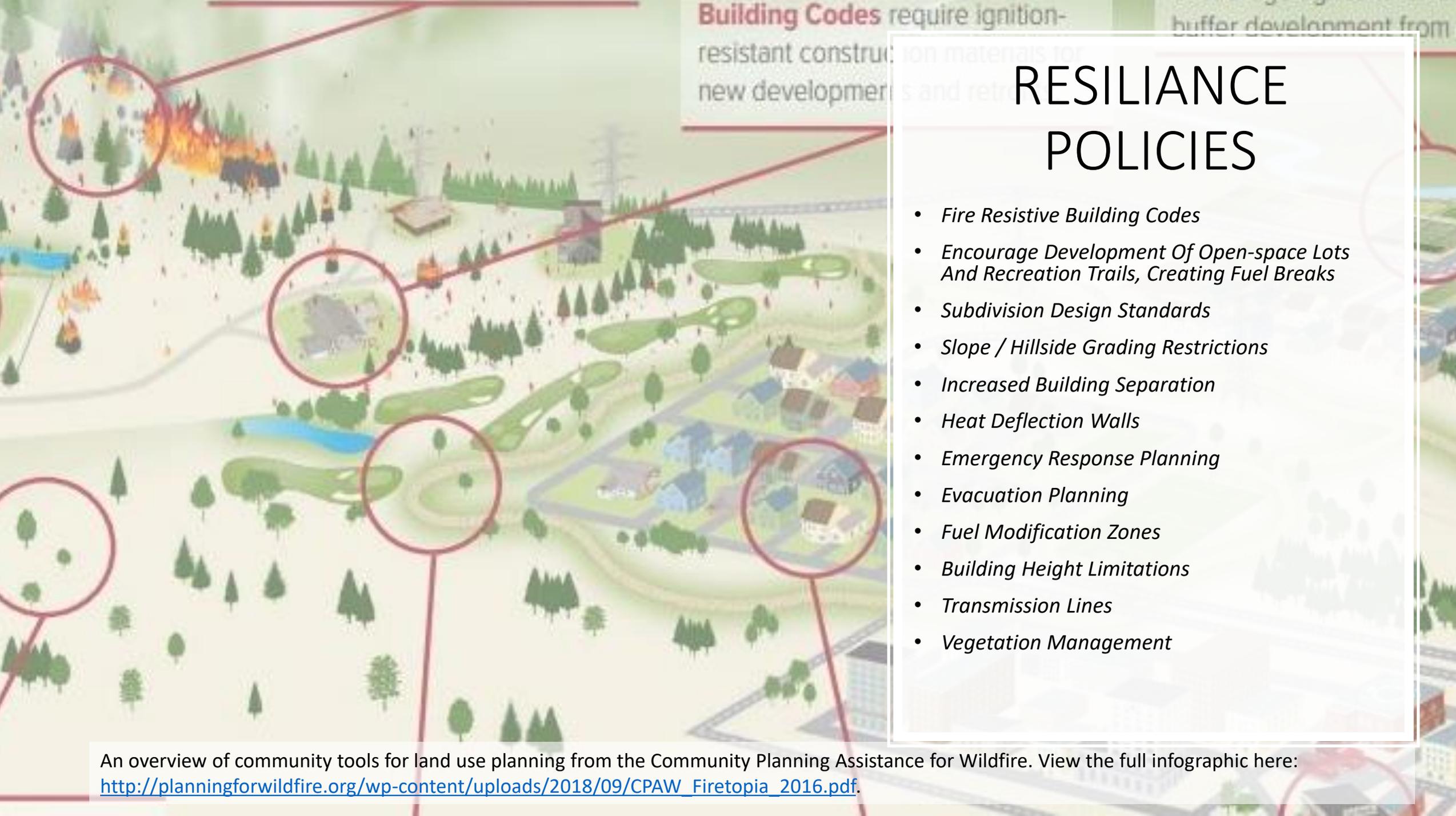
50 mph Wind at 70 degrees (ENE)



Line of Fire from the East – Arrival Time

Red Lines are Major Fire Travel Path/Black are Minor Path

FIRE BEHAVIOR MODELING



Building Codes require ignition-resistant construction materials for new developments and retrofits

buffer development from

RESILIENCE POLICIES

- *Fire Resistive Building Codes*
- *Encourage Development Of Open-space Lots And Recreation Trails, Creating Fuel Breaks*
- *Subdivision Design Standards*
- *Slope / Hillside Grading Restrictions*
- *Increased Building Separation*
- *Heat Deflection Walls*
- *Emergency Response Planning*
- *Evacuation Planning*
- *Fuel Modification Zones*
- *Building Height Limitations*
- *Transmission Lines*
- *Vegetation Management*

An overview of community tools for land use planning from the Community Planning Assistance for Wildfire. View the full infographic here: http://planningforwildfire.org/wp-content/uploads/2018/09/CPAW_Firetopia_2016.pdf.

Upcoming Webinars



**TACKLING CALIFORNIA'S
HOUSING CRISIS**
A FREE WEBINAR SERIES FOR LOCAL GOV'T STAFF & ELECTED OFFICIALS



ABOUT THE SERIES

California's housing crisis is growing. While local governments do not build housing units, local officials play an integral role in land use and housing decisions that set the stage for housing development.

This new series from ILG will help city and county leaders better navigate complex housing issues. Experts will tackle timely topics like land use and housing, legal regulations and parameters, and community engagement.

REGISTRATION IS FREE!

WWW.CA-ILG.ORG

This series is hosted by the Institute for Local Government with funding from the California Department of Housing and Community Development

Upcoming Topics

- Housing Strategies to Help Address Homelessness
- New Laws and New Money

www.ca-ilg.org/HousingWebinars

ICARP Clearinghouse

The screenshot displays the website's header with the ResilientCA.org logo and navigation buttons for "Search All Resources" and "Suggest A Resource". A menu bar includes "Adaptation Planning Guide", "Case Studies", "Resources by Topic", "Tools & Data", and "About". The main content area features a large image of hands working on documents, overlaid with the text "Adaptation Clearinghouse" and a description: "The Adaptation Clearinghouse is the State of California's consolidated searchable database of resources for local, regional and statewide climate adaptation planning and decision-making. Search and explore resources for adaptation and resiliency efforts in California. Learn more." Below this is a search bar with the placeholder text "Search all resources" and a magnifying glass icon. A vertical "Feedback" button is visible on the right side of the image.

<https://resilientca.org/>

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@InstituteForLocalGovt



@instlocgov



Sign up for our e-Newsletter
www.ca-ilg.org/stayinformed

Thank You!

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OPR



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