



Windsor Resilience Plan

Community Workshop #1

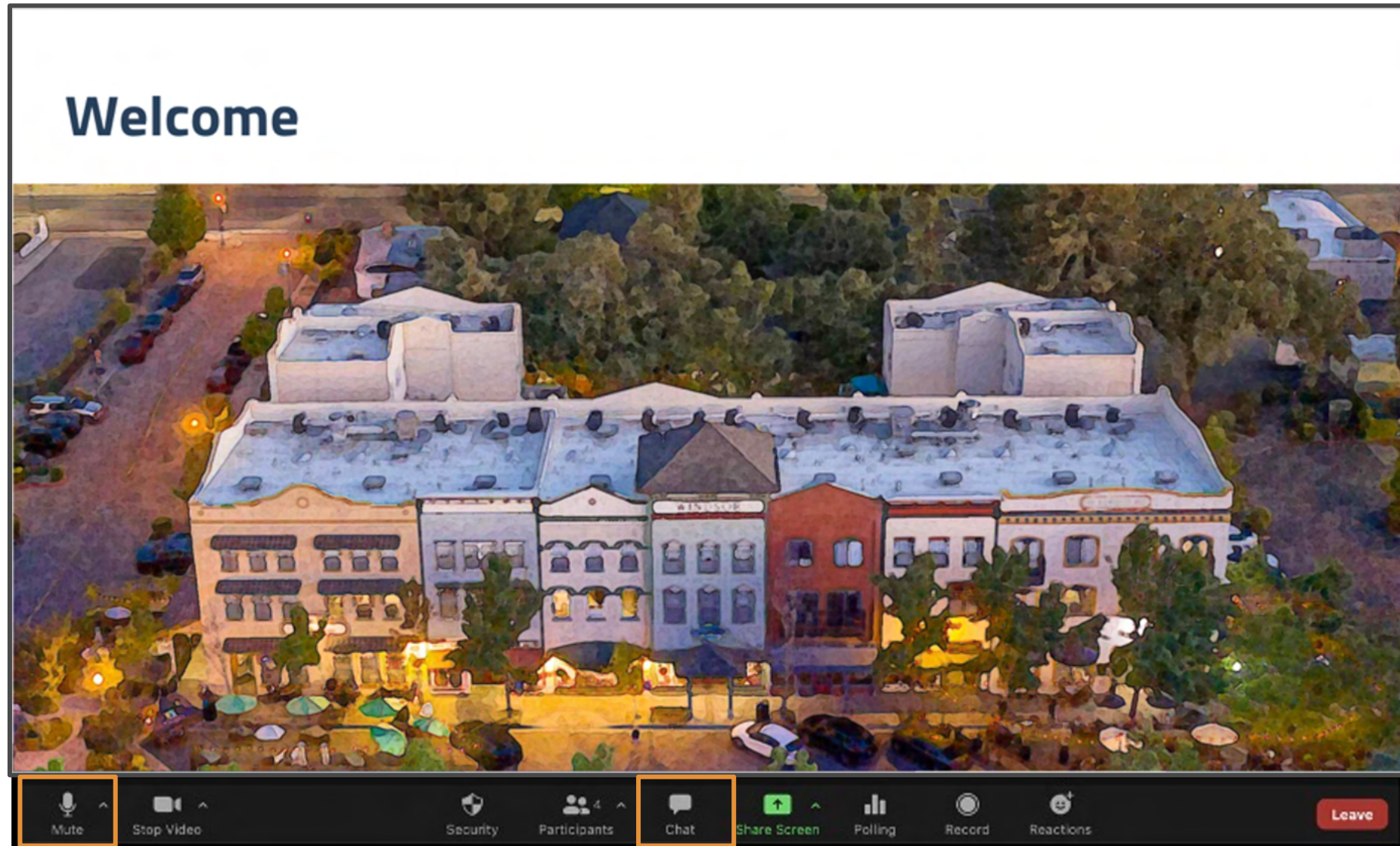
March 30, 2021

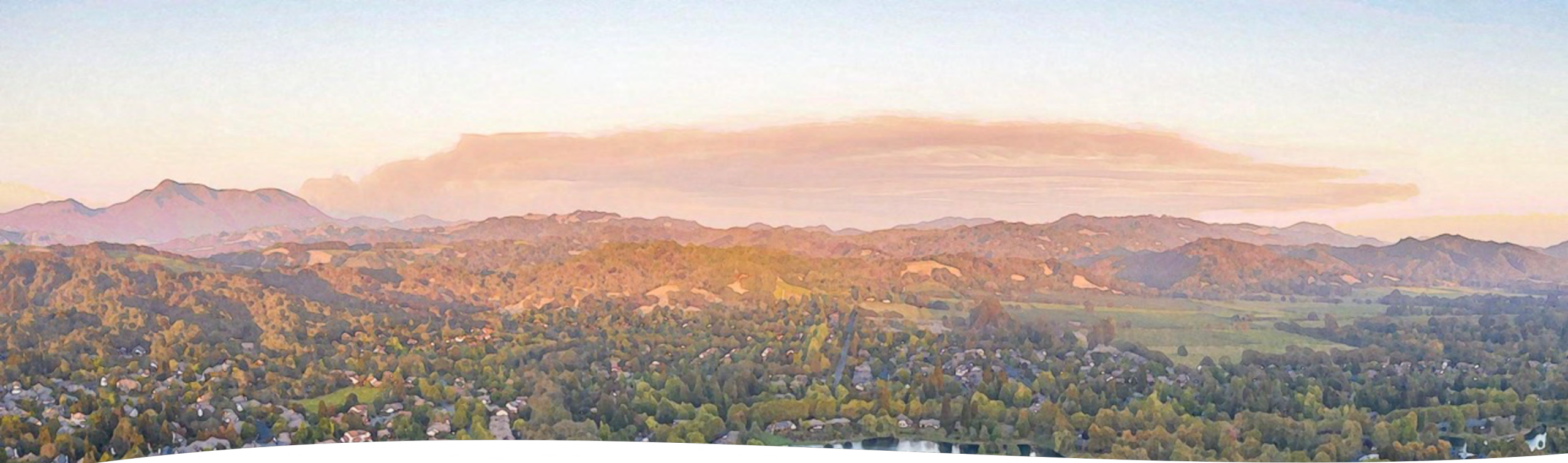
Welcome



Zoom Orientation

- ❖ Please **mute** yourself when you join.
- ❖ Use the **chat** for asking questions and providing comments.
- ❖ We will be using **breakout rooms**.
- ❖ The meeting will be **recorded**.
- ❖ The recording will be provided on the website with **closed captions in Spanish**.





Introductions (Breakout Groups)

- ❖ Name
- ❖ Neighborhood you live in
- ❖ One thing you love about Windsor!



Evening Agenda

6:00 pm

Welcome, Introductions, Orientation

Opportunity to connect with the project team and other attendees.
Brief overview of the Windsor Resilience Plan

6:20 pm

What does it mean for the Town of Windsor to be Resilient?

Interactive exercise and group discussion

6:30 pm

Climate Challenges for the Community

Short overviews of the climate and extreme weather challenges facing the community. Presentation by the project team and discussion on the following topics:

- General overview of hazards and a changing climate
- Climate Changes and Frontline Community Members
- Focus Area #1: Wildfire Risks
- Focus Area #2: Transportation & Evacuation

7:15 pm

Key Resilience Values and Goals

Interactive exercise and discussion of community values, goals, and areas of action.

7:28 pm

Wrap-up and Next Steps

7:30 pm

Adjourn

Project Partners

Transportation Lead



Overall Project Lead and Climate Change & Resilience Lead



Disaster Preparedness & Evacuation Lead



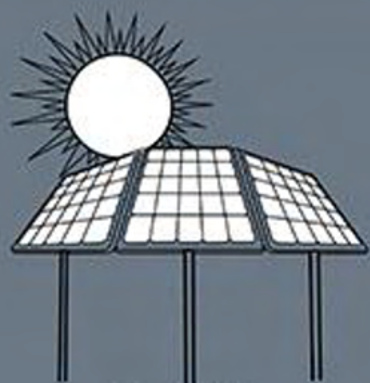
Engagement Lead



MITIGATION

ACTION TO REDUCE EMISSIONS
THAT CAUSE CLIMATE CHANGE

Install Electric
Vehicle Charging Stations



Invest in
Renewable Energy



Implement
Energy Efficiency
Programs



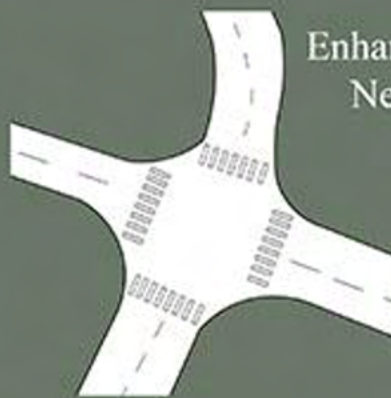
Foster Climate
Education



Enhance Urban
Tree Cover

ADAPTATION

ACTION TO MANAGE THE RISKS
CAUSED BY CLIMATE CHANGE



Enhance Transportation
Network Planning



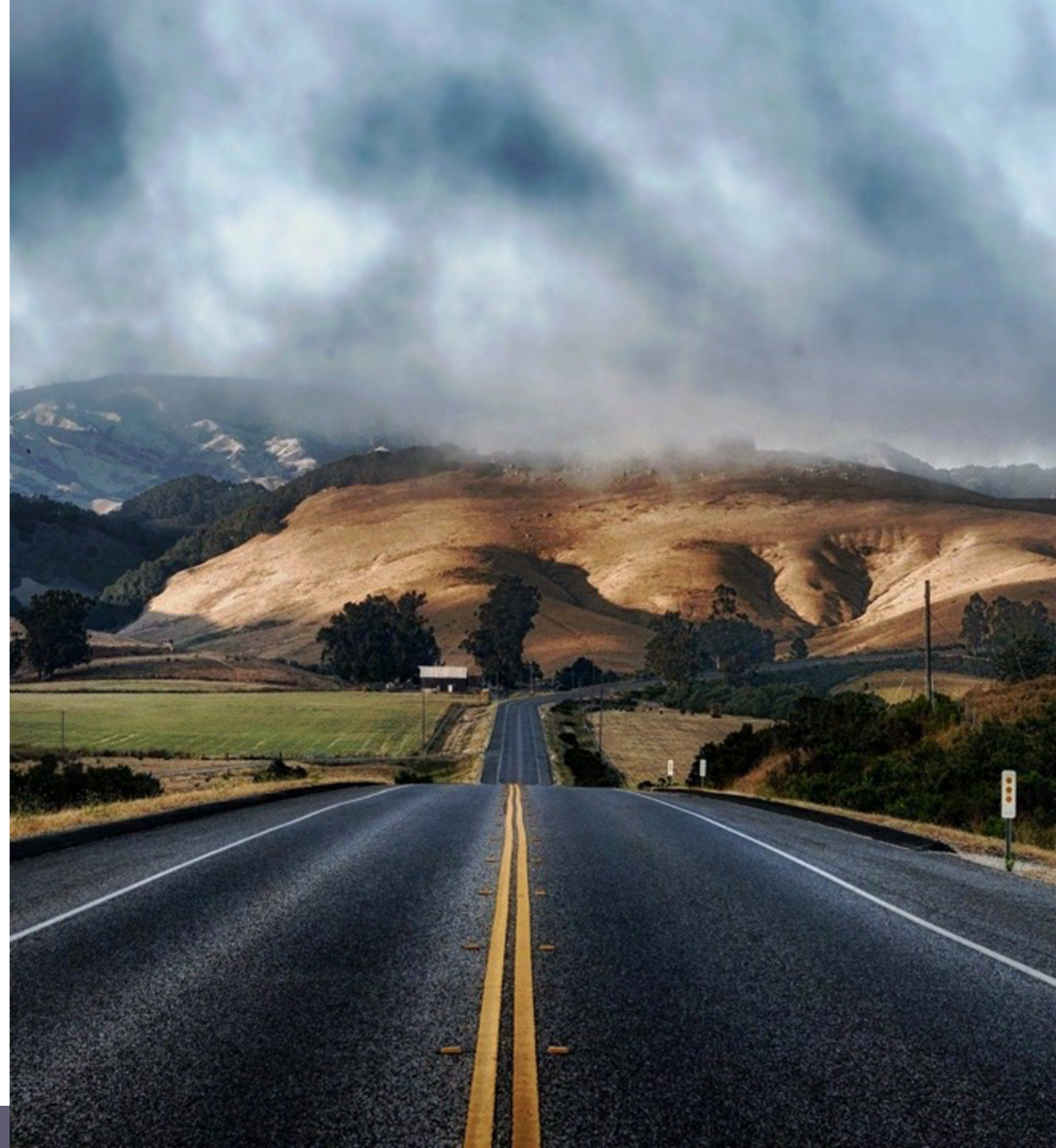
Coordinate Regional
Evacuation Planning



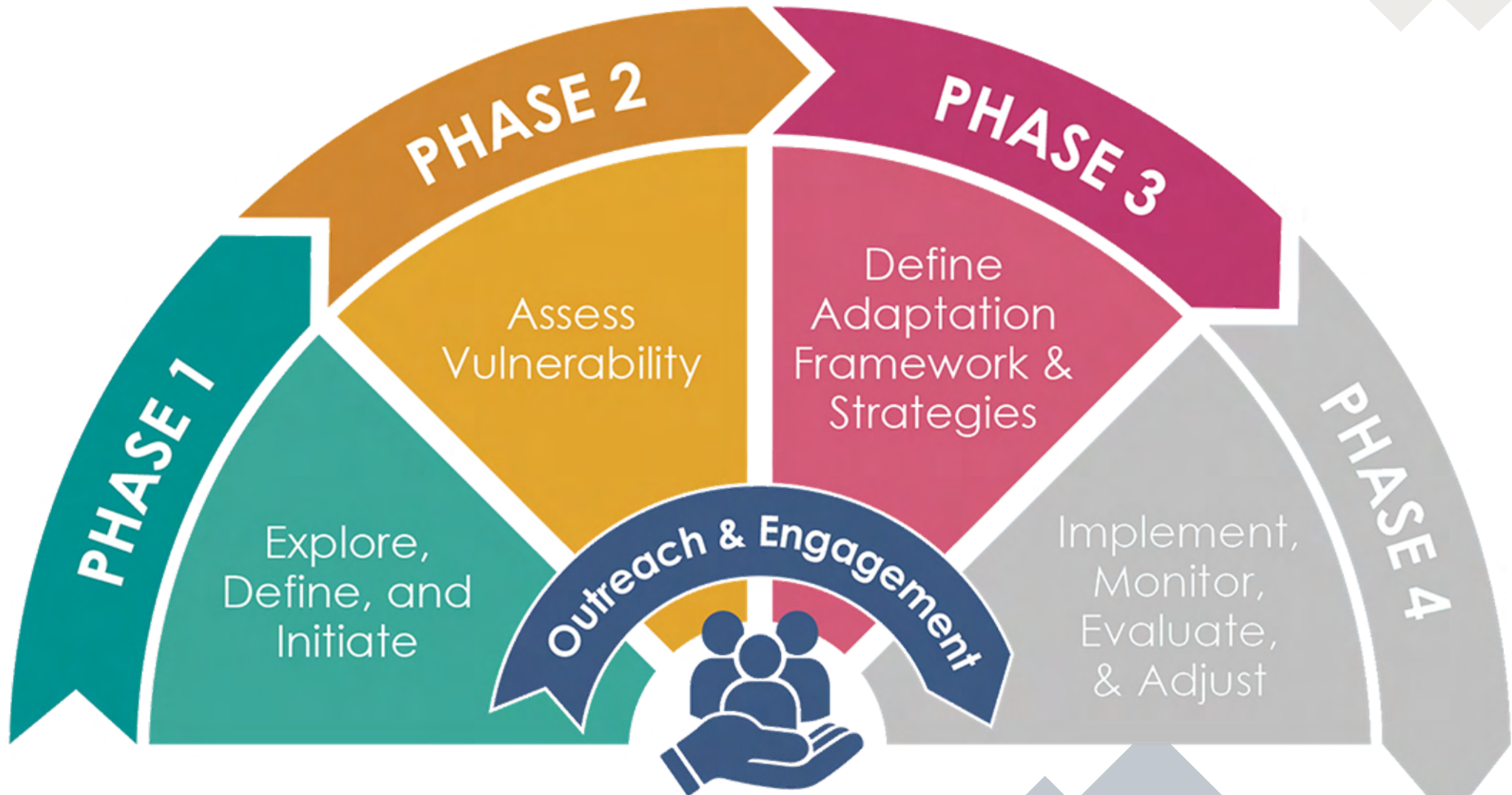
Reduce
Wildfire Risk

Resilience and Opportunity

- Engage
- Improve Preparedness
- Vitality and Resilience



Resilience Planning Phases



What is the Windsor Resilience Plan?

This Plan is...	This Plan is not...
Holistic Community Resilience Plan	Replacement for Existing Emergency Preparedness, Hazard Mitigation, or other plans.
"Roadmap" for Action	Specific Policies or Regulations
Toolbox of Actions to Consider	A Commitment to Implement Specific Actions

The Windsor Resilience Plan Timeline



Interactive Exercise and Discussion



Vision of a
Resilient Windsor

Using Mentimeter

- ❖ Click on the link in the chat or use your phone and the QR code below!
- ❖ The same link will be used for all Questions throughout the presentation!



<https://www.menti.com/r1ao3gdor7>



In a word or two, what does it mean for the Town of Windsor to be Resilient?



Resilience

“A capability to anticipate, prepare for, respond to, and recover from significant multi-hazard threats with minimum damage to social well-being, the economy, and the environment.”

- National Climate Assessment

“The capacity of a community to anticipate, plan for, and mitigate the dangers—and seize the opportunities—associated with environmental and social change.”

- The Kresge Foundation “Bounce Forward”

Characteristics of a Resilient System

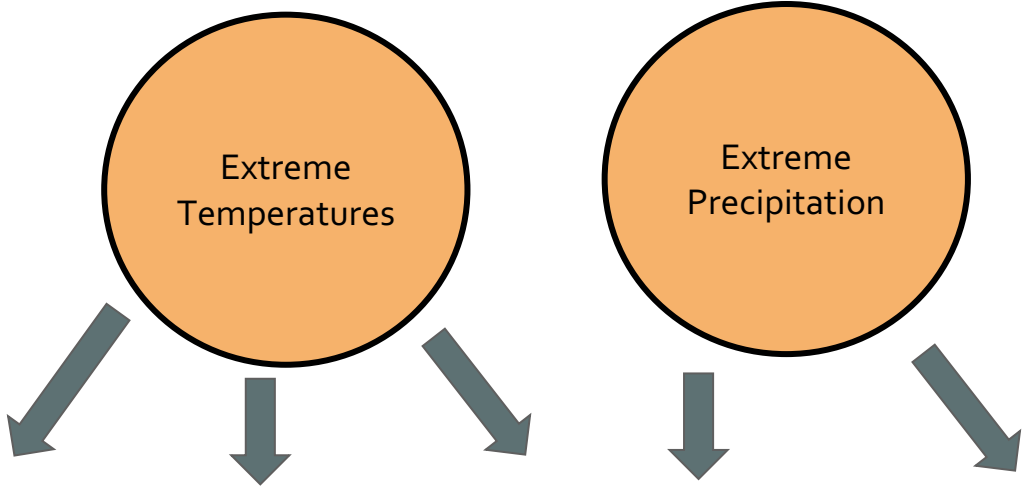
- Flexible
- Robust
- Redundant
- Resourceful
- Inclusive
- Reflective/Learning



© Tom Rennie

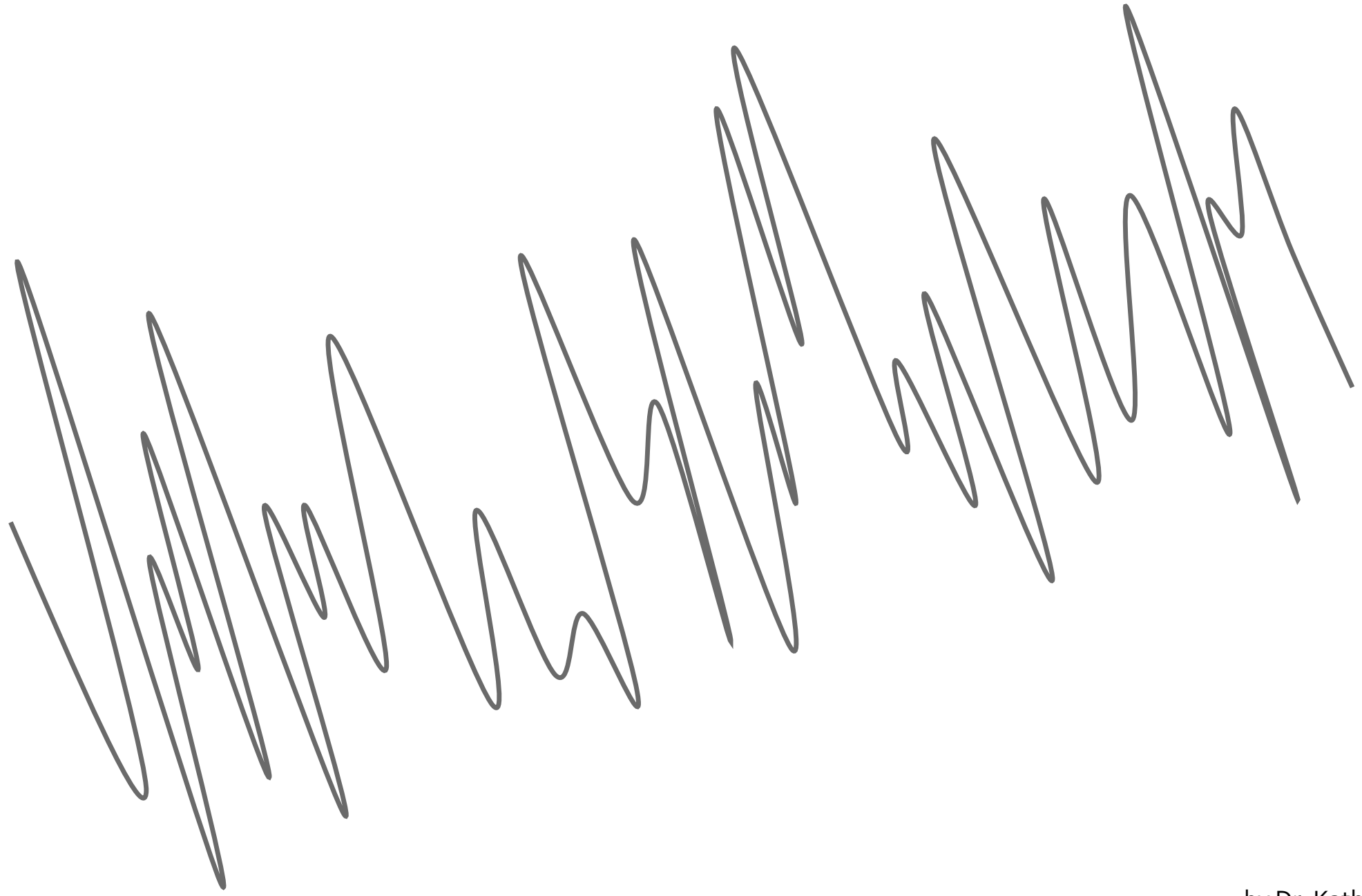
Climate Challenges for the Community

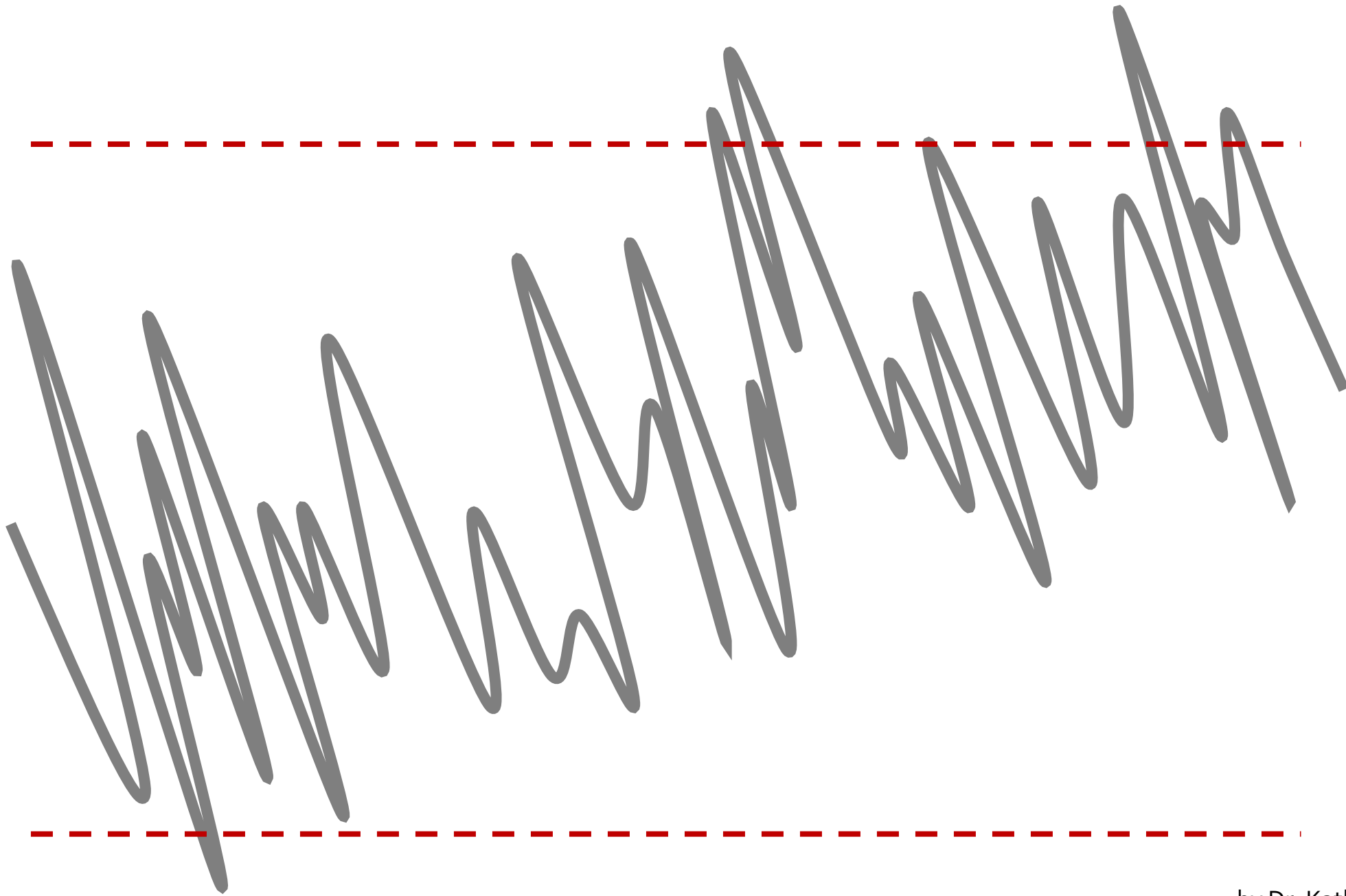
Climate Exposures



Climate and Weather



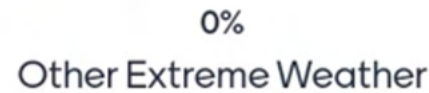
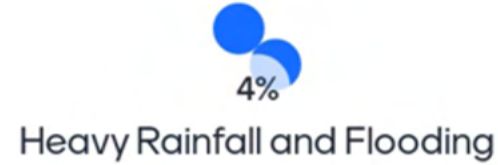
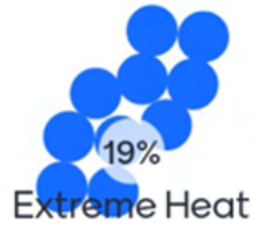






Mentimeter
Climate
Challenges

What are the biggest climate related challenges facing the Town of Windsor? (Select all that apply):



Climate Projection Summary

Hotter, Drier Weather with Longer Summers



More extremely hot days



More frequent and intense droughts



More frequent and intense wildfires



Fewer winter nights that freeze

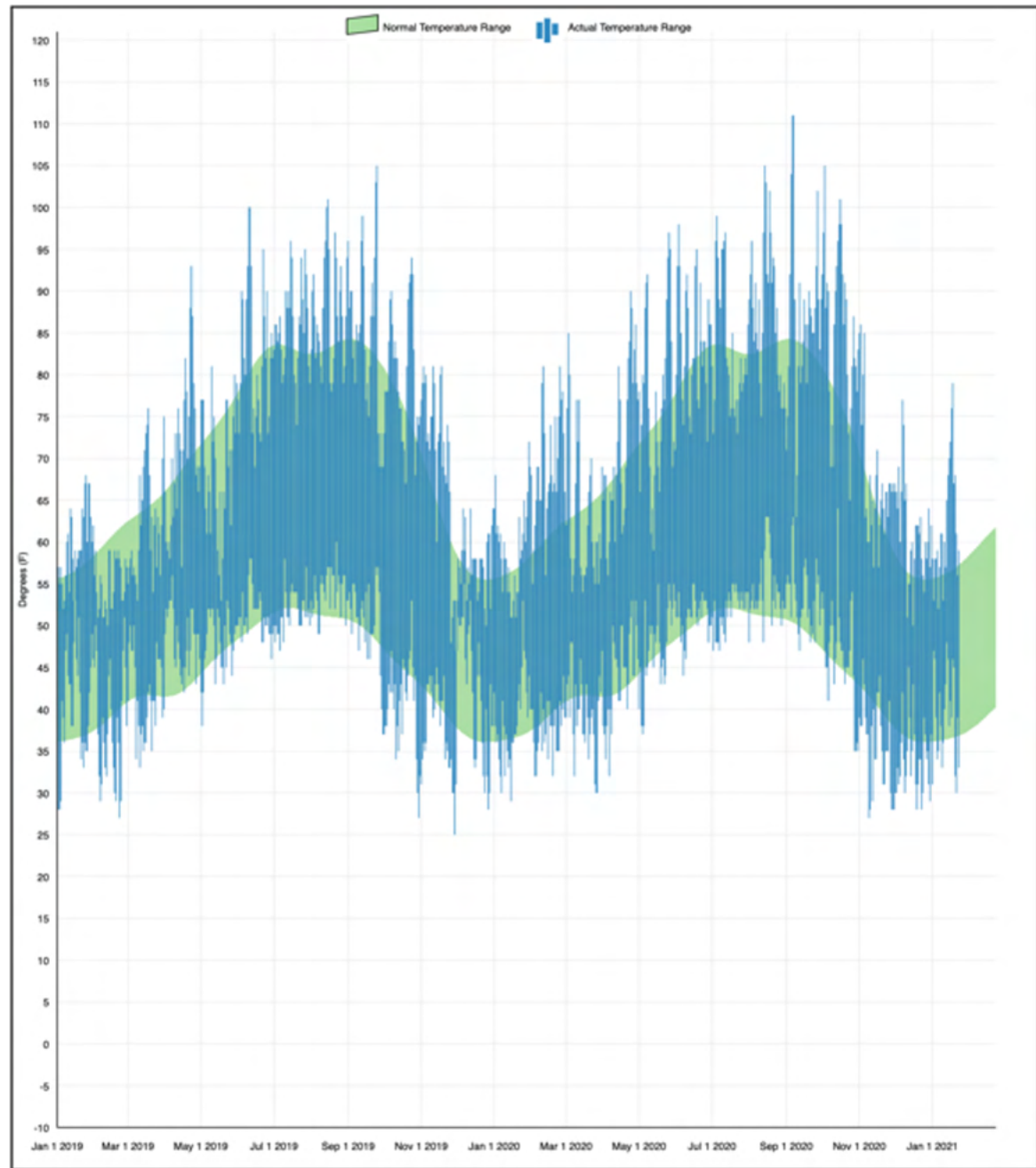
More Variable Rain



Greater risk of extreme floods

Source: Sonoma County Climate Readiness, in *Climate Action 2020 and Beyond: Sonoma County Regional Climate Action Plan* (2016)

Temperature (Observed)

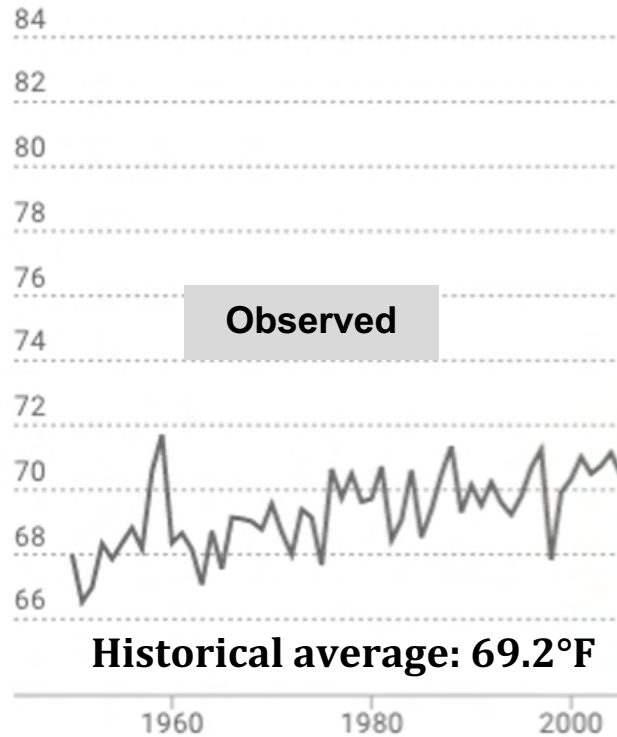


Temperature (Projected)



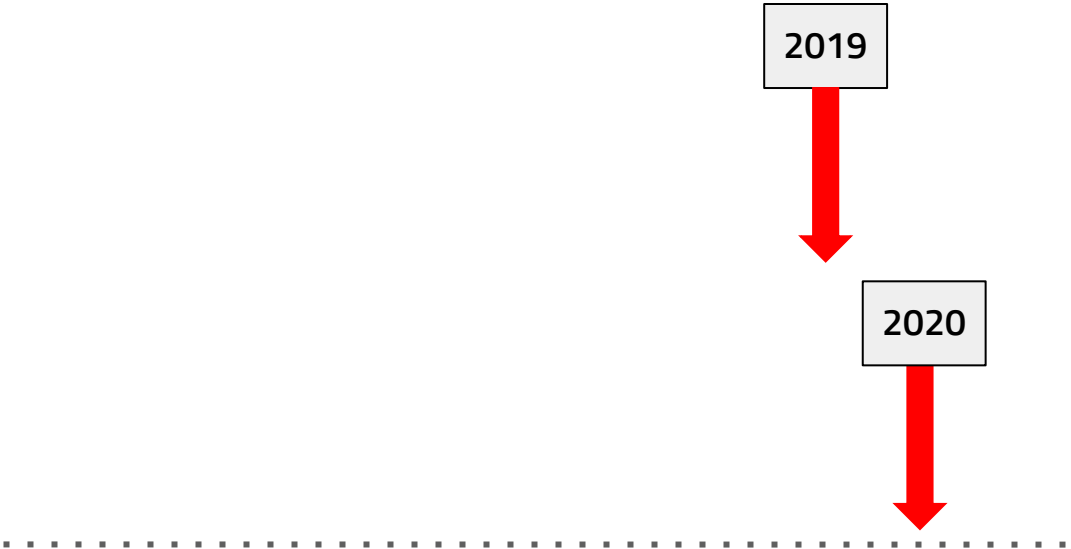
Sonoma County

86 Annual Average Maximum Temperature (°F)



Bay Area average annual maximum temperature increased by 1.7°F (0.95 °C) from 1950 to 2005 (CA 4th Assessment Report)

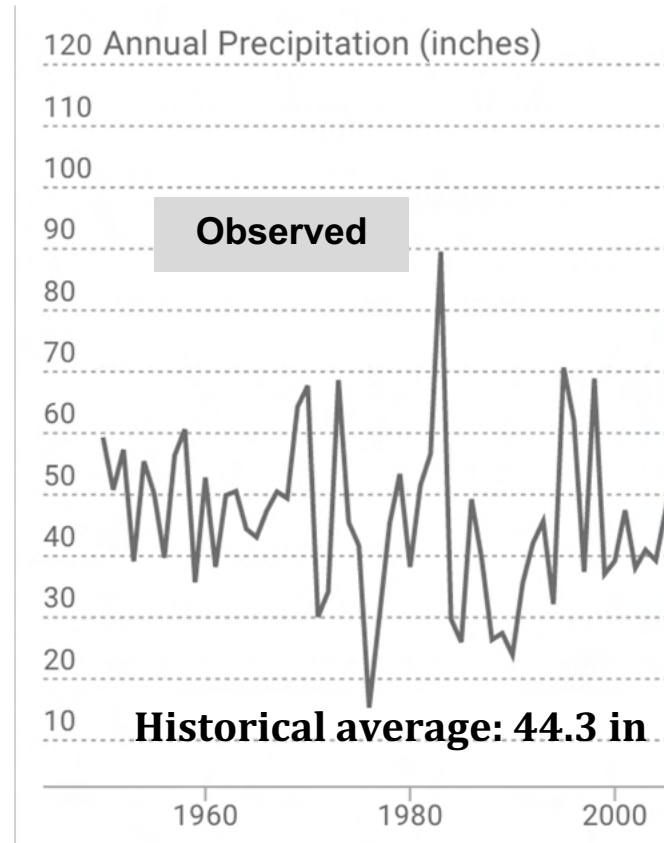
Precipitation (Observed)



Precipitation (Projected)

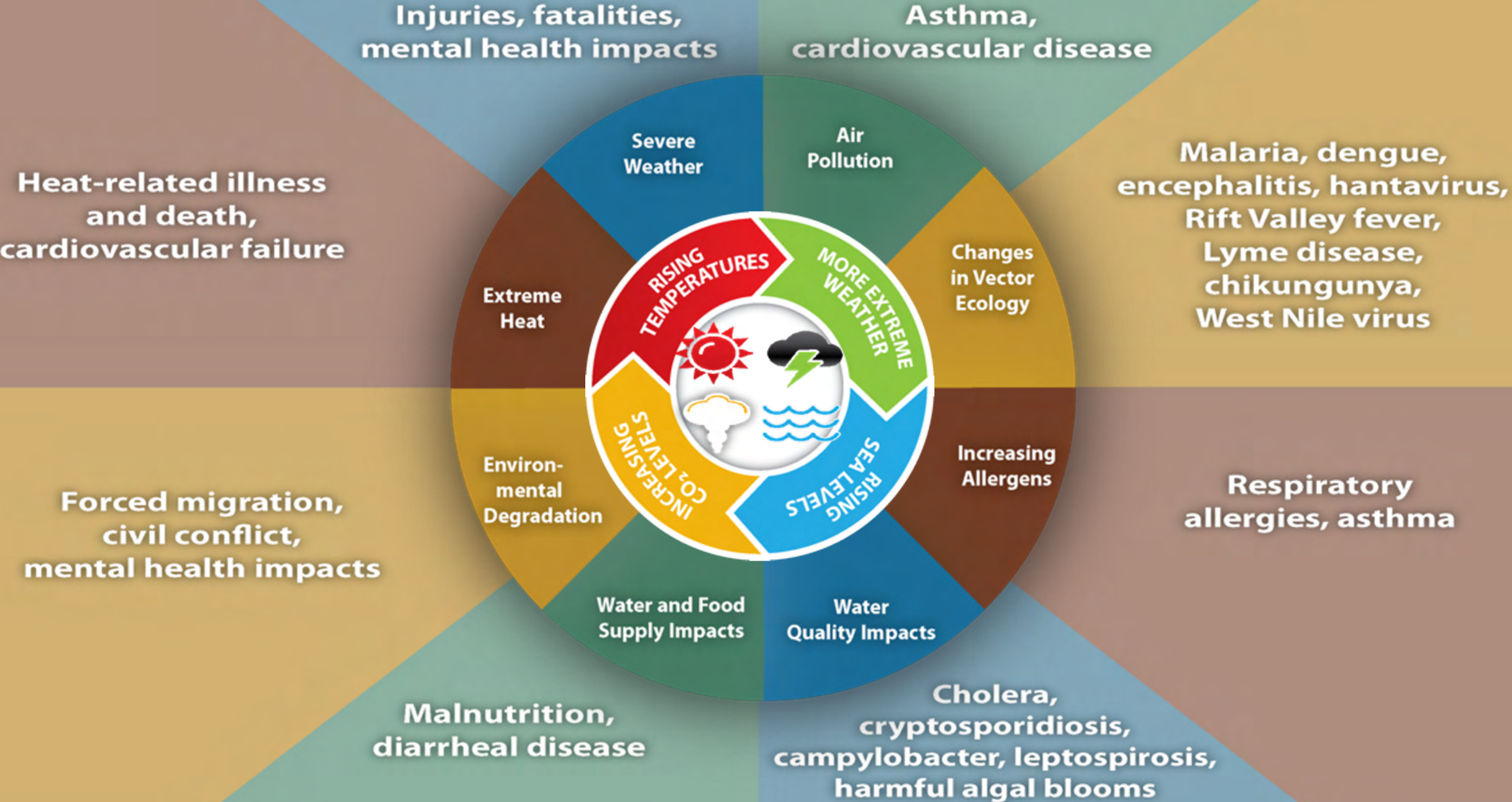


Sonoma County



Precipitation in the Bay Area will continue to exhibit high year-to-year variability - “booms and busts” - with very wet and very dry years. (CA 4th Assessment Report)

Impact of Climate Change on Human Health



Factors that enhance vulnerability to these hazards

Who are the people most likely to be adversely impacted during disaster and climate change processes?

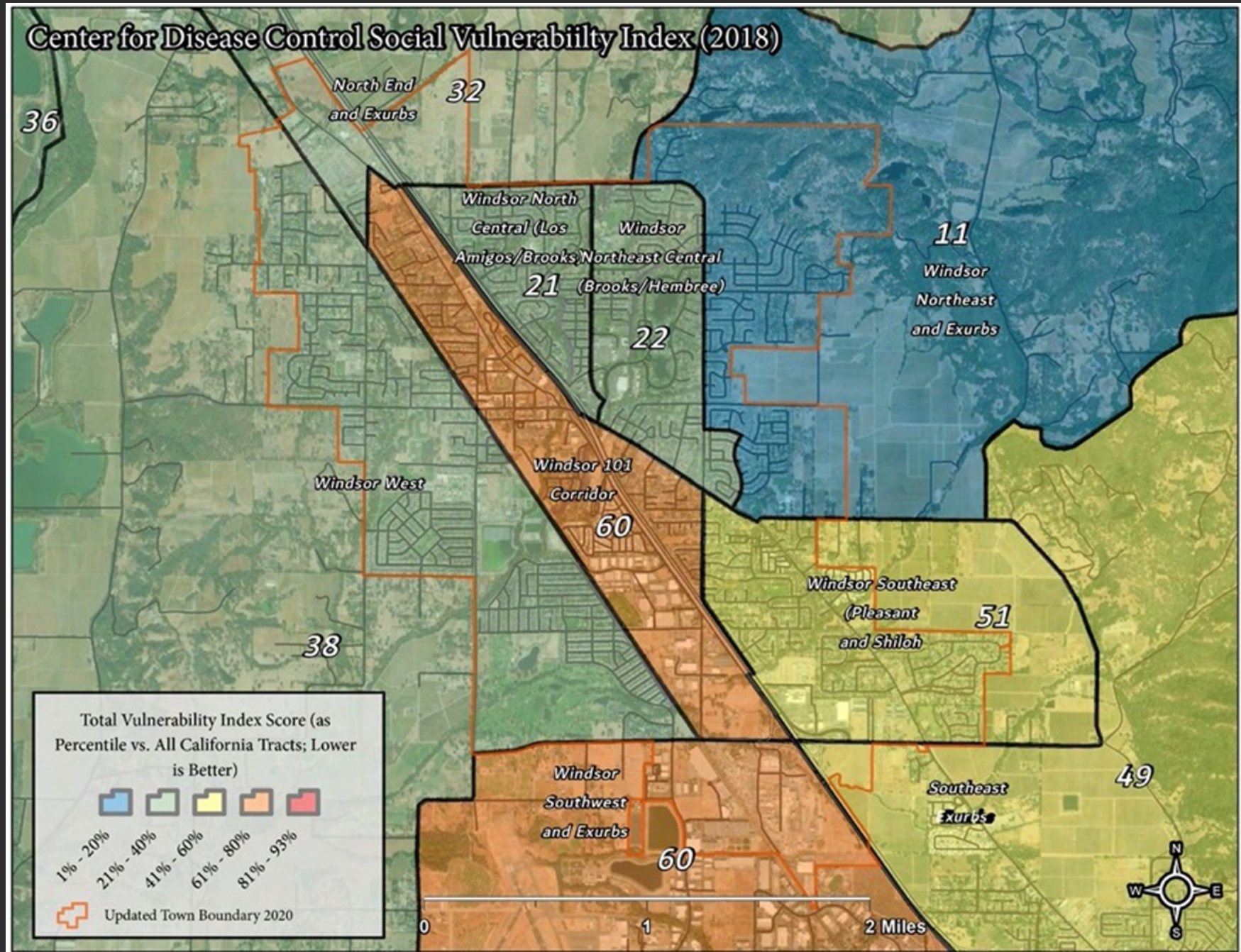
- **Individual Characteristics**
 - Age-related sensitivity (the very old and very young)
 - Physical or Mental Disability
 - Pre-existing conditions that predisposes toward high impacts from stressors (e.g., asthma and smoke exposure)
- **Economic Capacity**
- **Systematic Oppression and Exclusion from Adaptation, Preparation, and Recovery Resources**
- **Livelihood-based Factors (e.g., both income source and home are affected by wildfire)**
- **Technological Access**
- **Other Factors**

CDC SVI 2018

- Index of indicators known to result in disproportionate negative impacts following disaster events

Overall Vulnerability

Socioeconomic Status	Below Poverty
	Unemployed
	Income
Household Composition & Disability	No High School Diploma
	Aged 65 or Older
	Aged 17 or Younger
Minority Status & Language	Older than Age 5 with a Disability
	Single-Parent Households
	Minority
Housing Type & Transportation	Speaks English "Less than Well"
	Multi-Unit Structures
	Mobile Homes
	Crowding
	No Vehicle
	Group Quarters

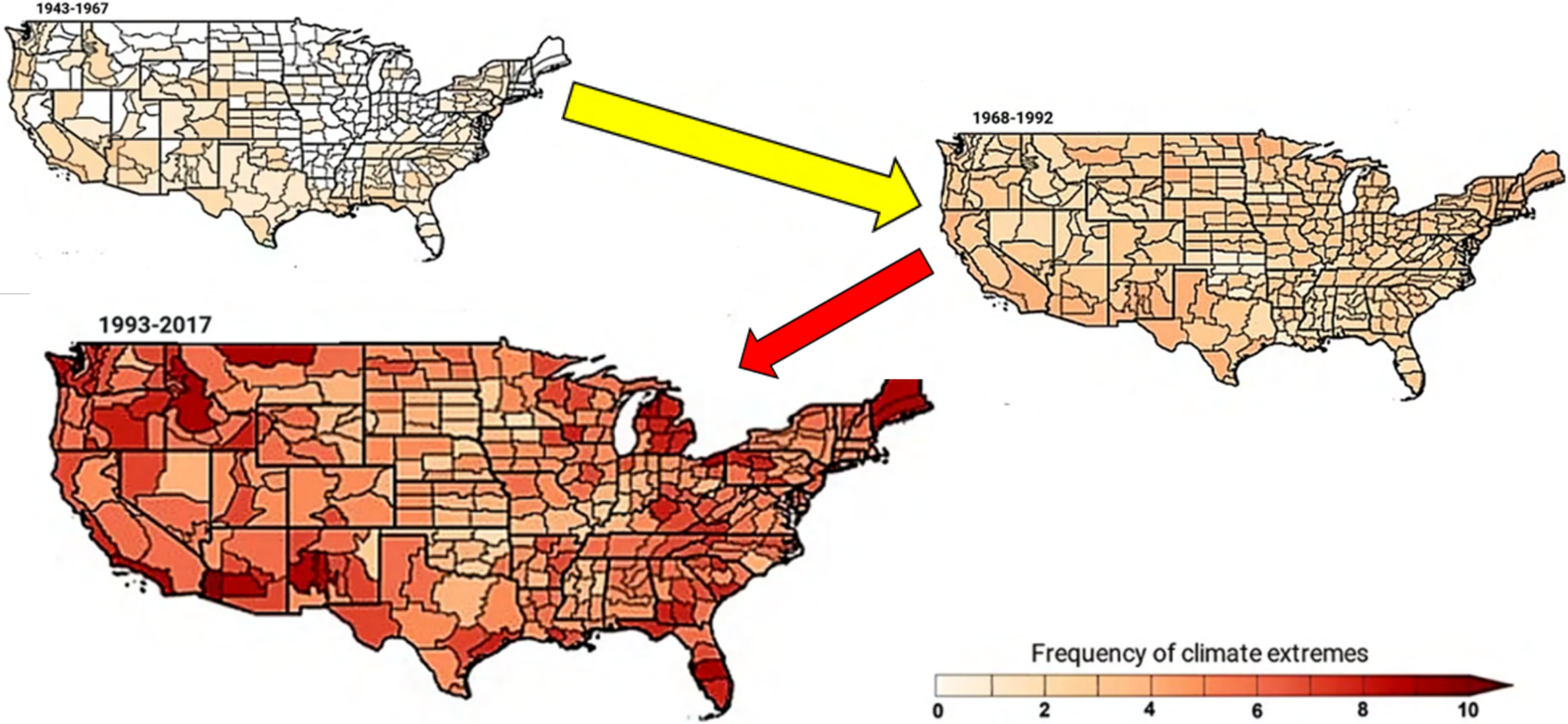




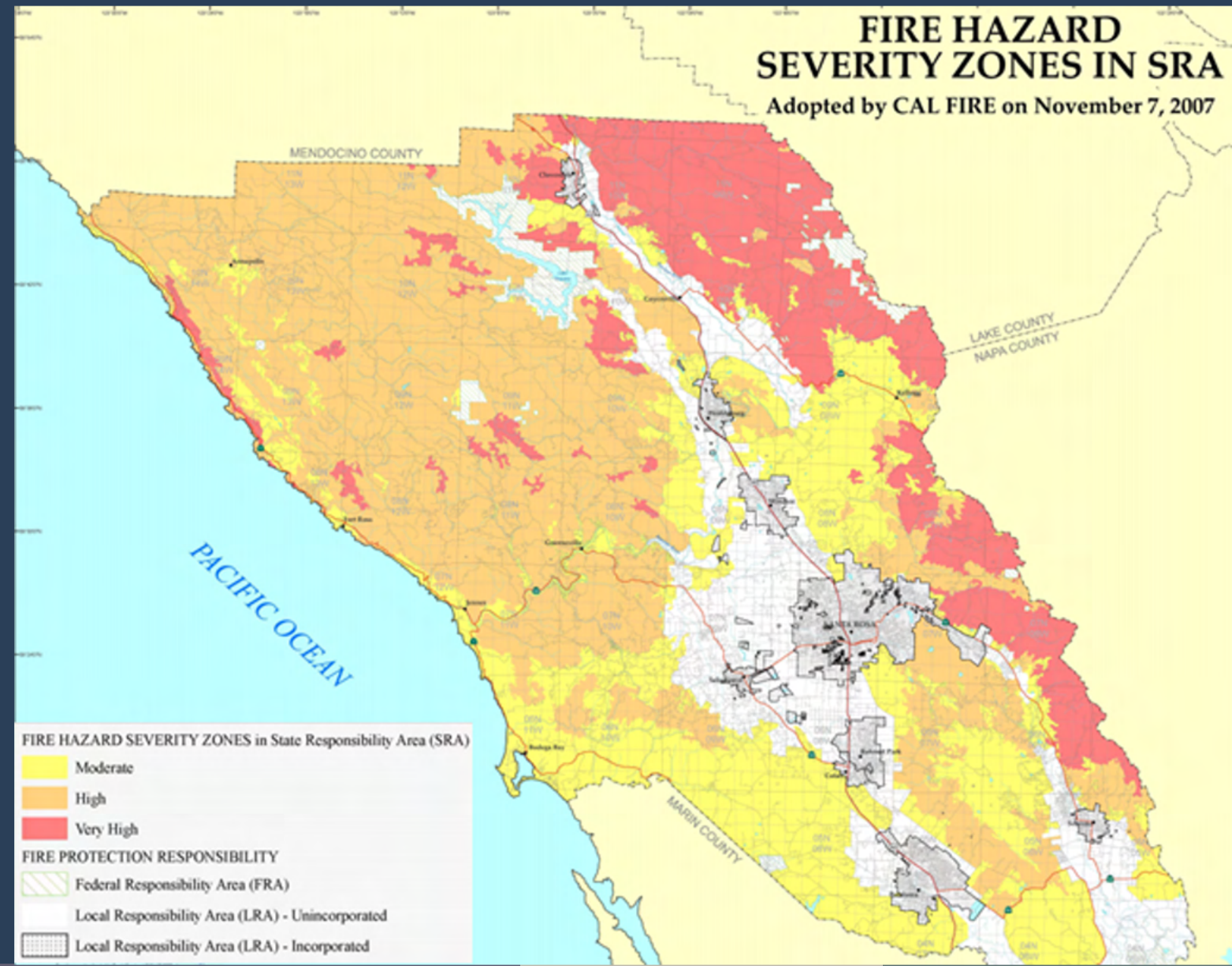
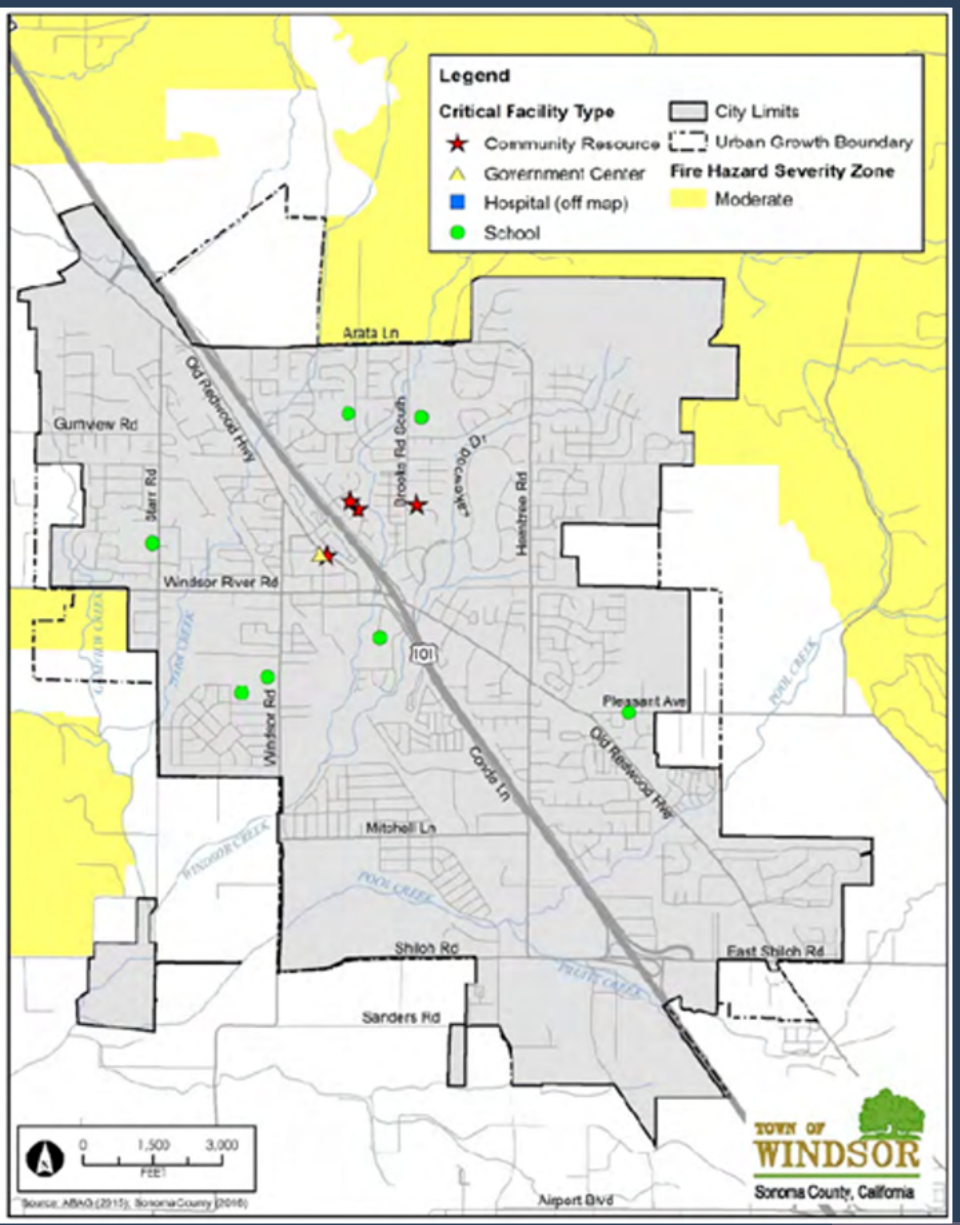
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Focus Area #1: Wildfire Risk

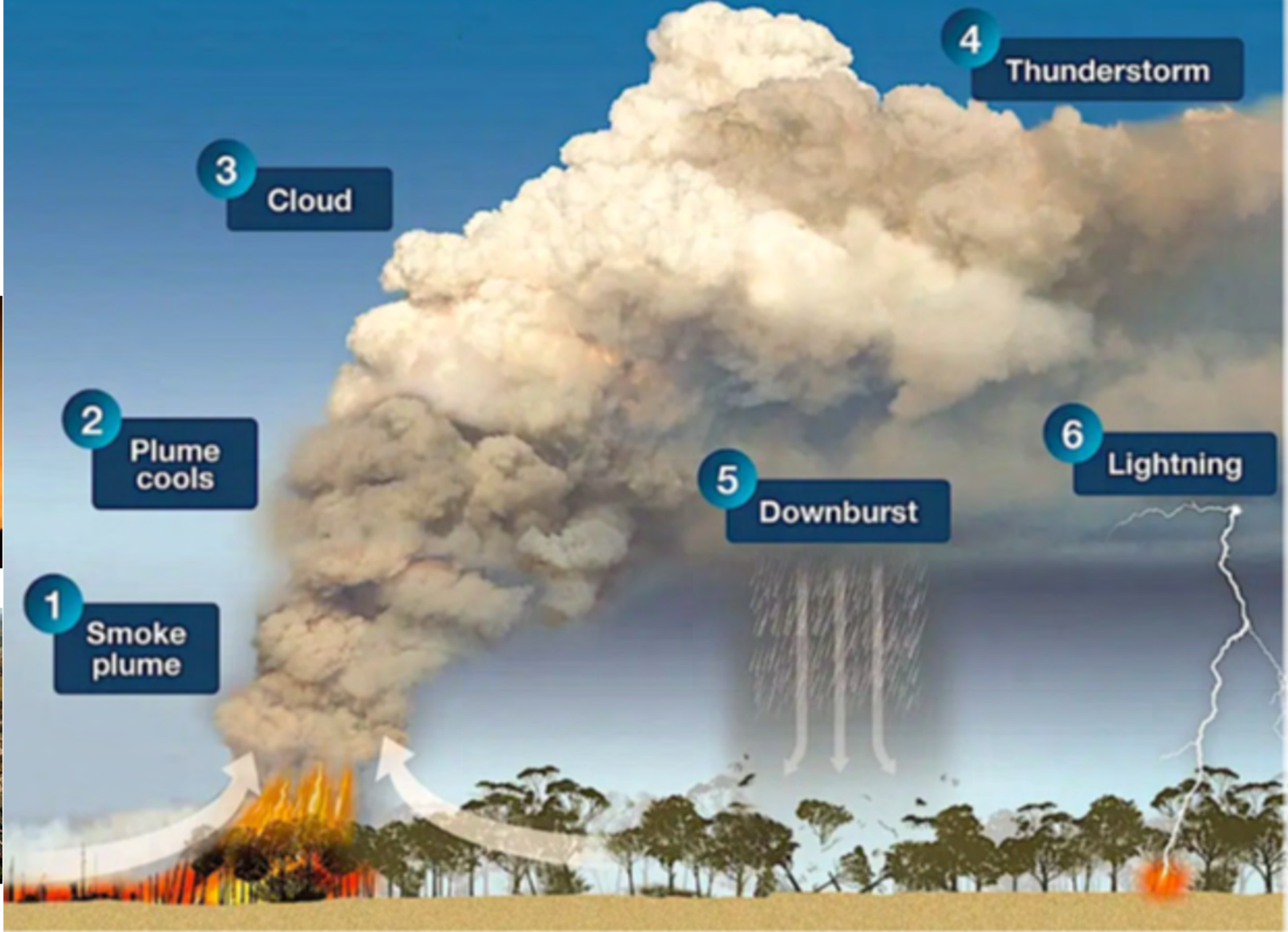
A Trending Increase in Wildfire Risk



Wildfire Risk - Improving Our Understanding



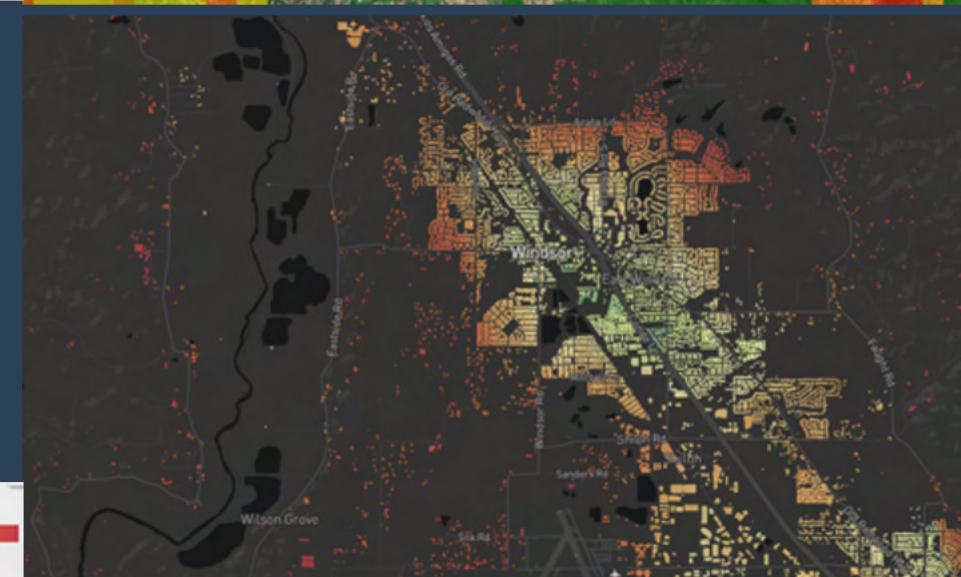
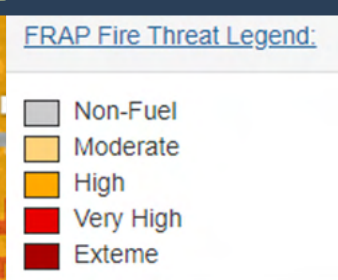
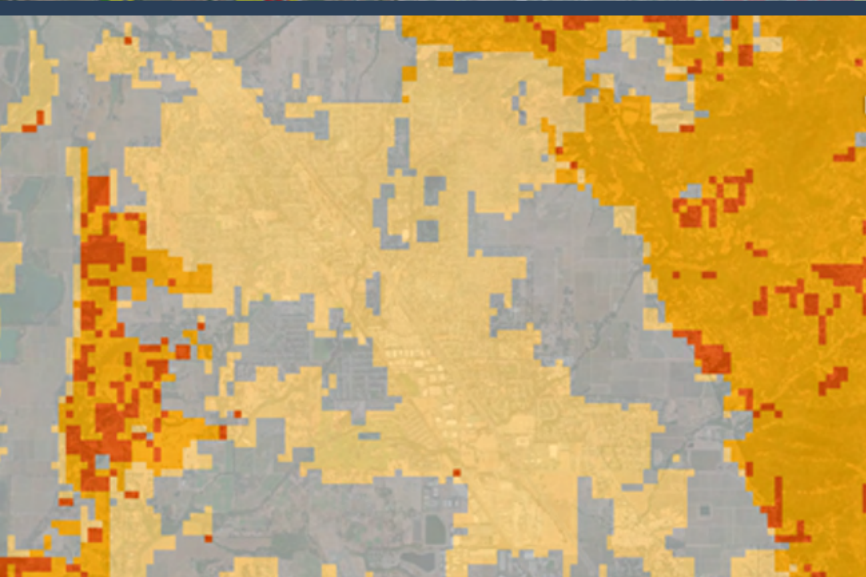
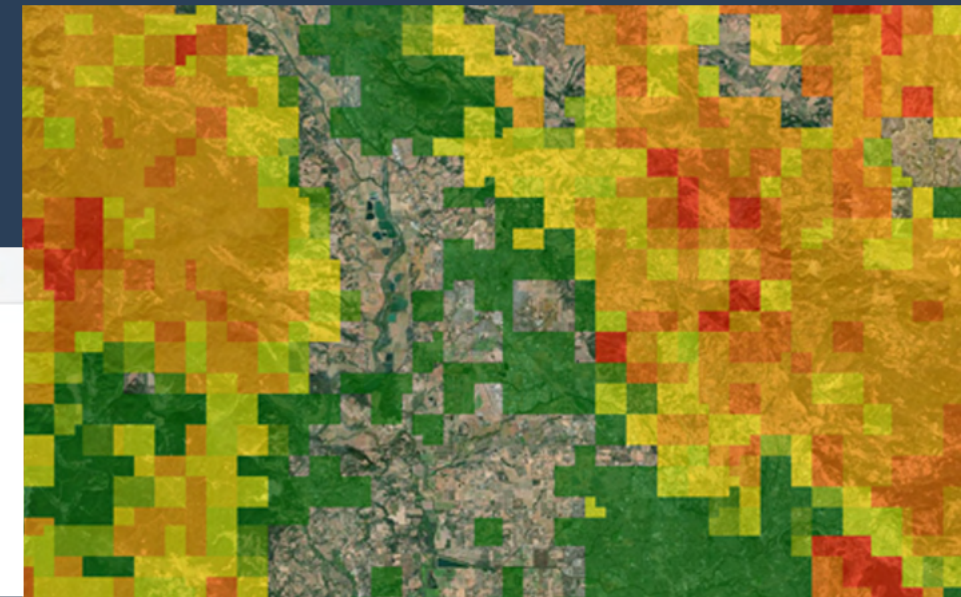
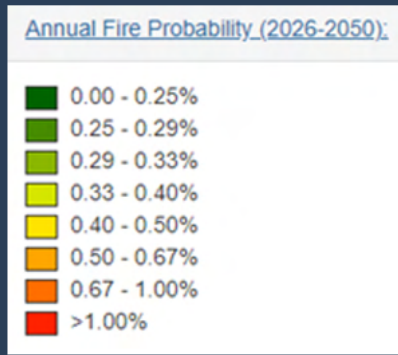
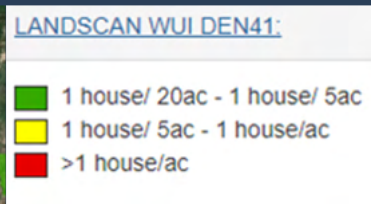
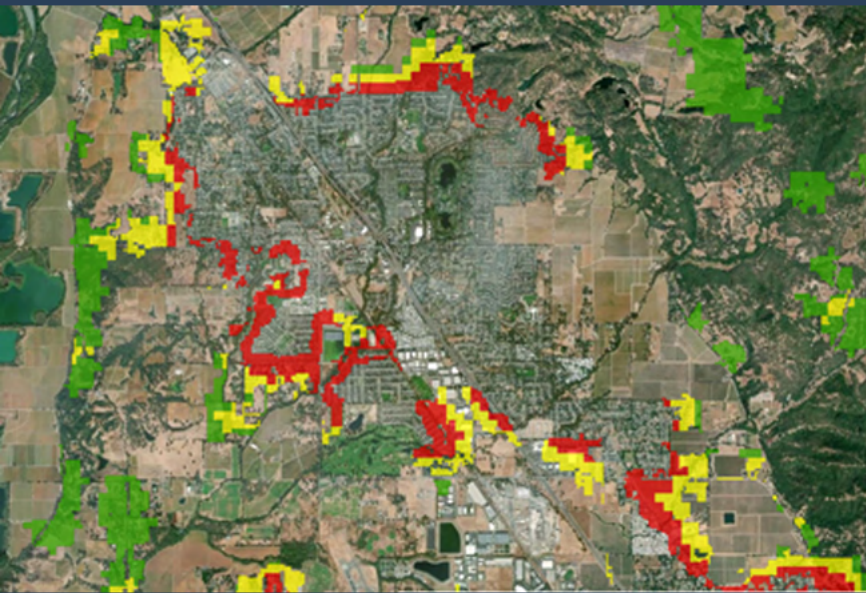
Changing Wildfire Behavior



Coffey Park - Post Fire Drone Footage

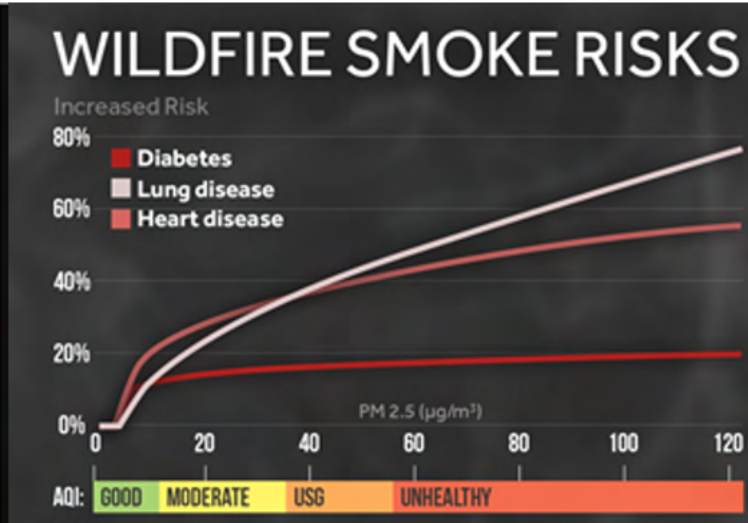


Evolving Understanding of Wildfire Risk



Wildfire Smoke - An Emerging Hazard

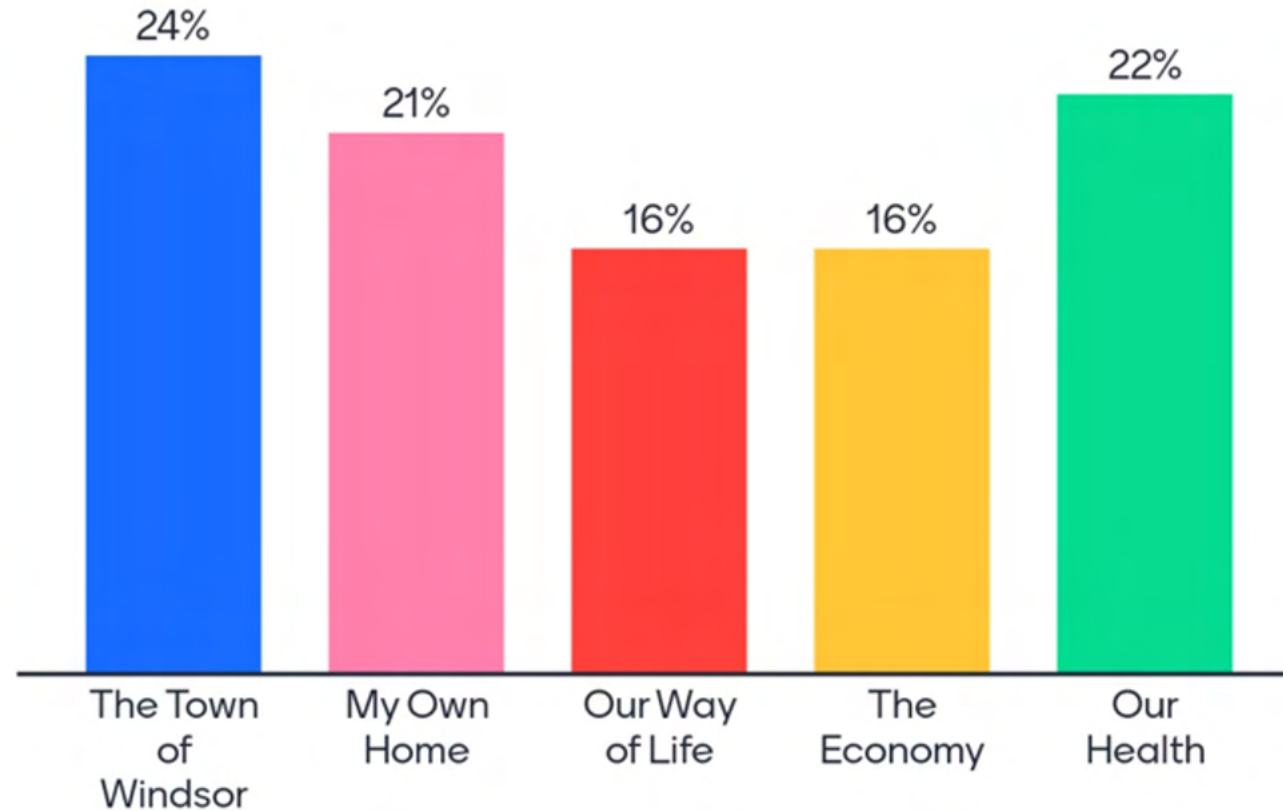
Public Health | Economy | Psychosocial | Education | COVID-19 | Reputation



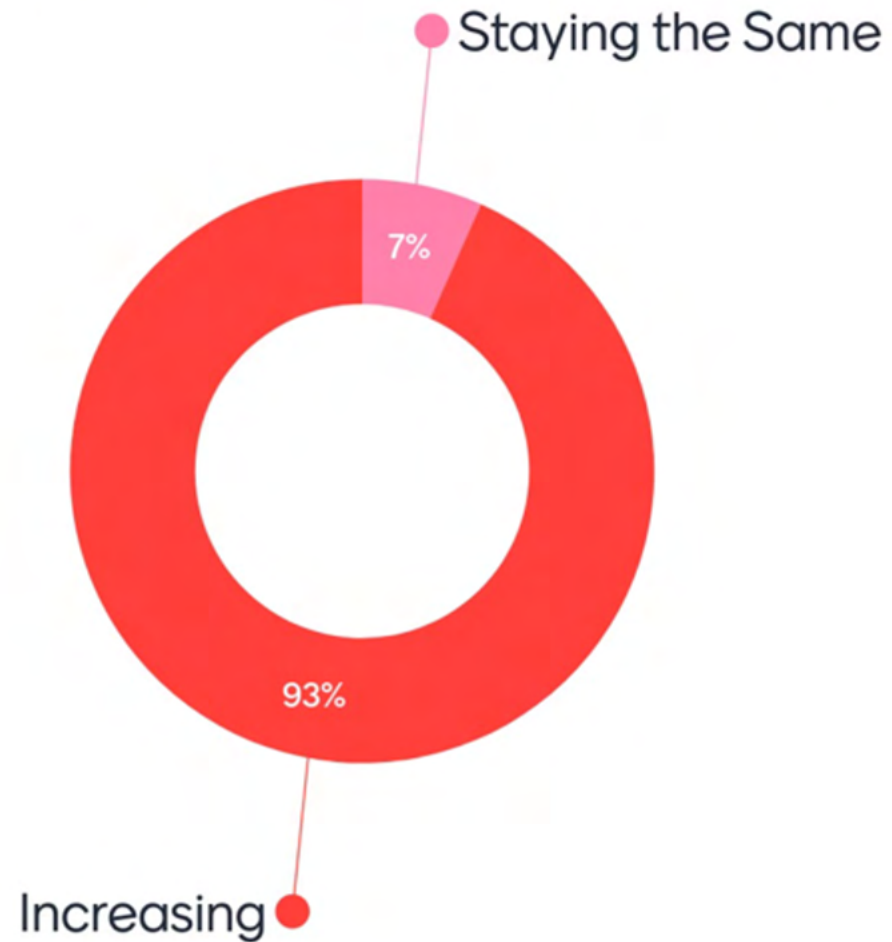


Mentimeter Wildfire Risk

I believe that wildfires are a threat to (choose all that apply):



Wildfire risk in Windsor is...





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Focus Area #2: Transportation & Evacuation

Transportation Affects Climate



What is a transportation vulnerability?

Conditions that may impede people's movement during a climate emergency, considered from 2 perspectives:

Transportation Assets

Russian River set to flood as storm leads to heavy runoff in Sonoma County



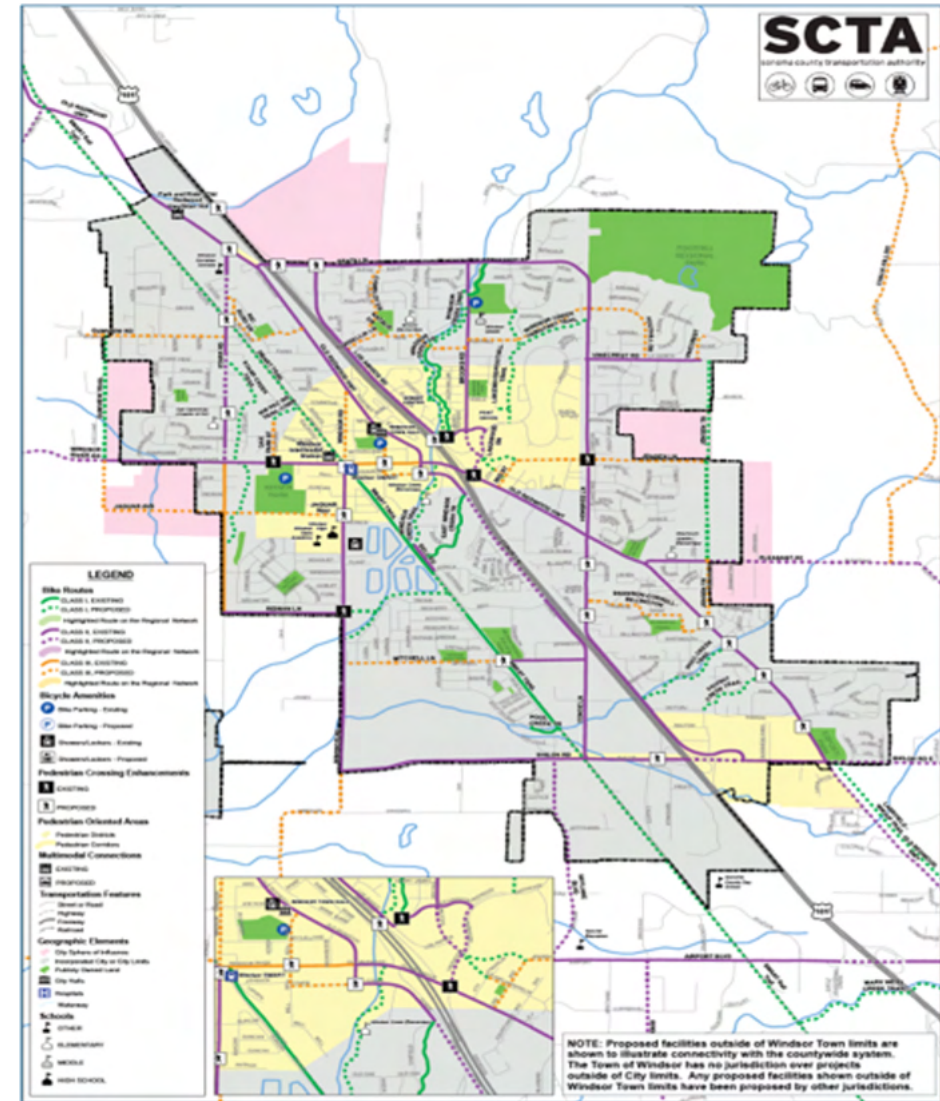
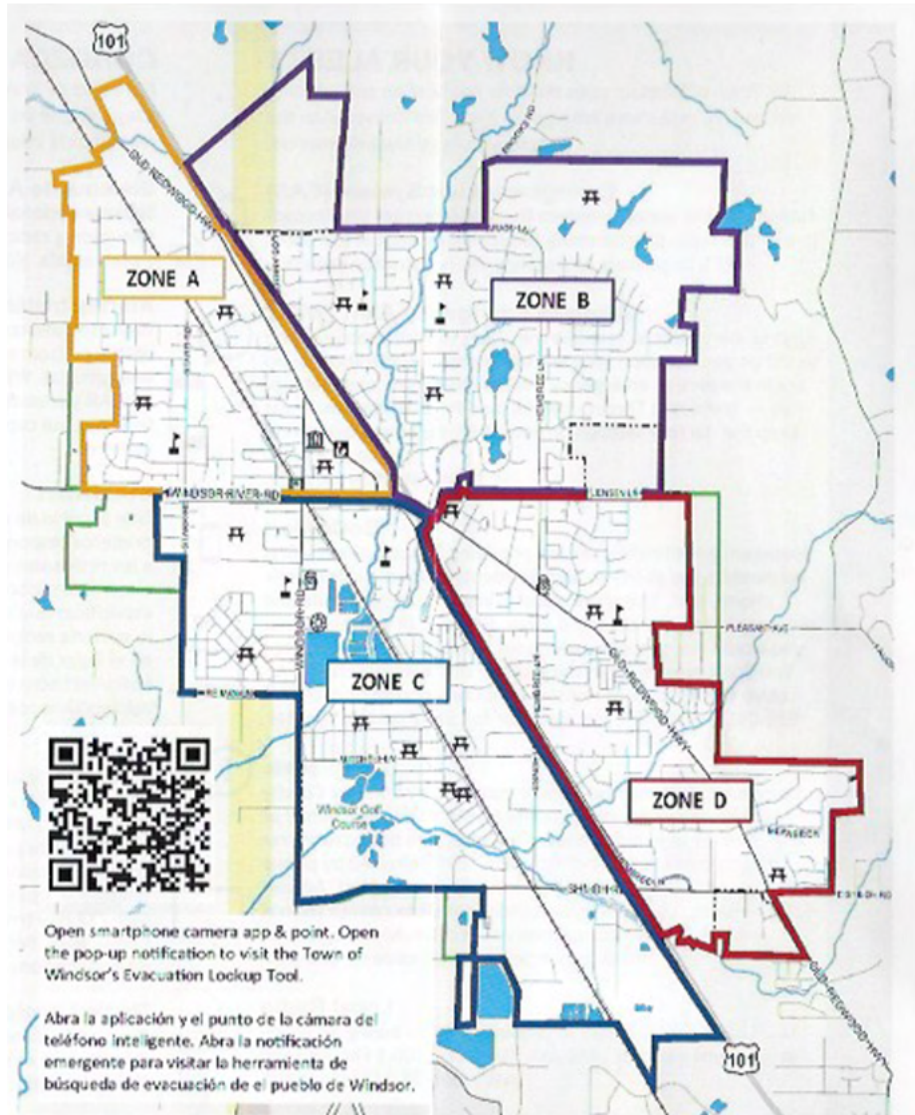
SLIDE 1 OF 23
Windsor firefighters stop to pick up people that were stranded in high water on Skyline Blvd. in Windsor, Wednesday Feb. 13, 2019, due to heavy overnight rain. (Kent Porter / The Press Democrat) 2019

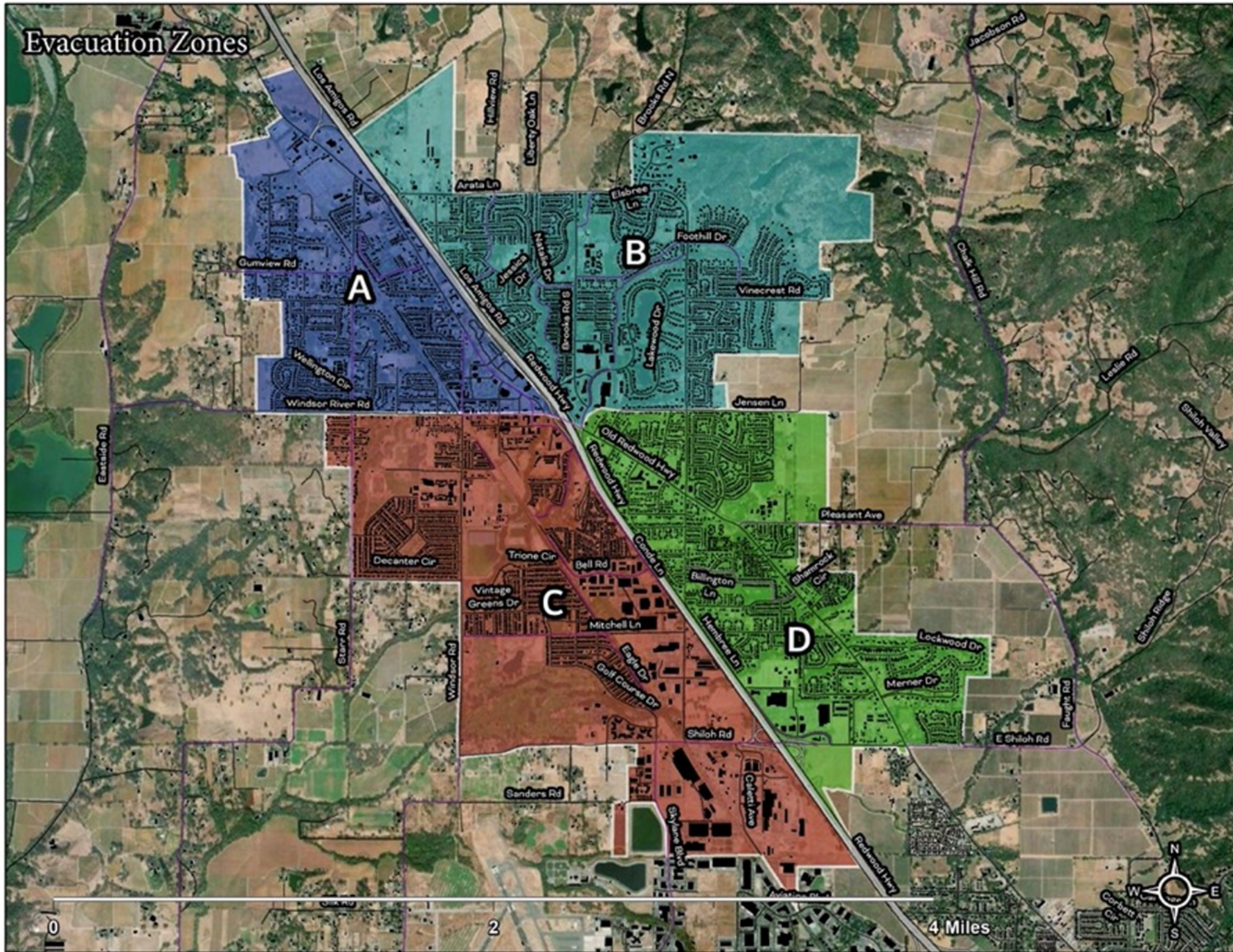
People Who Use the Assets



Residents who fled retirement communities under evacuation orders on Sept. 28 came to the Veterans Memorial Building in Santa Rosa by bus. With less capacity because of the pandemic, that shelter filled up quickly. (Sabe Moline/KQED)

Adaptation in Transportation

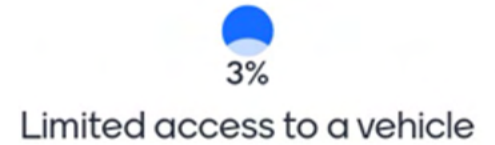






Mentimeter Transportation

Which of these transportation vulnerabilities pose the greatest challenge for you during a climate emergency? (Select all that apply):



What other transportation vulnerabilities have you experienced or expect to experience in the future?

Not having anywhere safe to go.

Will we become dependent upon SMART?

Not knowing where to go in the "heat" of the moment.

not having a place to stay when evacuated.

Once leaving this area, one may end up in a worse location. For example, evacuating to a location and a fire impacting that area as well.

future inability to drive

Public transportation is extremely limited in Windsor. That's too bad, because it would be a more efficient way to evacuate in some cases.

Sufficient time to prepare for evacuation like 2017 fires

Future inability to drive

setting evacuation routes for each home so we don't all take the same place.

Aging community for transportation

Not for myself but for our neighbor that has MS, during Kincade we had very limited space between her animals and ours and the people



© Tom Rennie

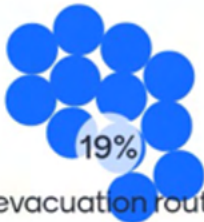
Community Resilience Value & Goals

An aerial, painterly-style photograph of a city street. The street is lined with multi-story buildings, some with awnings and outdoor seating. There are trees and parked cars visible. The overall scene is vibrant and detailed.

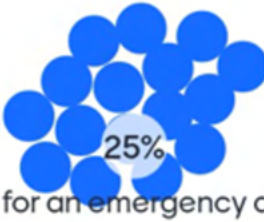
Interactive Exercise and Discussion

Mentimeter
Community
Resilience Values
& Goals

Which of the following have you done to prepare yourself or your family to evacuate in an emergency (check all that apply):



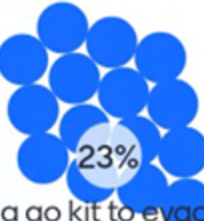
Planned an evacuation route out of town



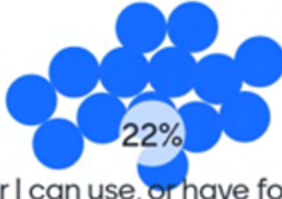
Registered for an emergency alert service



Made a reunification plan with my family or friends



Assembled a go kit to evacuate quickly



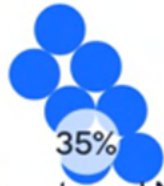
I have a car I can use, or have found another transportation option

0%
None of the above

Based on what you have heard tonight, what do you think resilience means?



What do you see as the major priorities for this effort?



35%

The Environment and Natural areas



15%

Transportation Networks



5%

Local & Regional Economy



20%

Equity



20%

Community Health and Wellbeing



5%

Buildings, Homes, and Community Spaces

Briefly, share what aspirations or goals you have for Windsor?

to keep growing together with community involvement, to create fire prevention measures and expand fire fighting and fire spotting techniques to create a safe town that is prepared to evacuate, but is successful in preventing fires hitting Windsor

To be a community that lifts up the most vulnerable among us.

See my Chat comment prior; action soon to protect Windsor this year. Not many Windsor residents on this presentation. Cyndi Foreman speaks of COPE and she is so correct - how can Windsor wake residents up to this?

small town community resilience co-habituating with nature

A community that is networked and prepared enough to caretake the Townspeople and the environment before, during, and after an emergency or disaster.

Plans for good forest management, COPE on every street, to go bags for the top emergencies.

Convince people to stop burning wood in the winter.

We will be connected at the neighborhood level "Mayberry style" and have easy ability to find the resources we need thru communication

Communication to all citizens for quickly moving together for neighbors and family

Continue to protect our open space and urban growth boundary.

Briefly, share what aspirations or goals you have for Windsor?

To keep all people safe and healthy in Windsor.

To remain a Town in control of it's own destiny

safe and inclusive place where you want to live

Balance with the natural environment for long term benefit

Invest in adding a higher capacity east/west evacuation route

Our neighborhoods are prepared for natural disasters, and well connected at the neighborhood level

To remain a Town in control of it's own destiny

Create realistic short and long term plans for emergency situations.

Sustainability; healthy, happy and empowered residents.



Wrap-up and Next Steps

Get Involved!



Project Website:

<http://www.WindsorReady.com>





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THANK YOU!

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