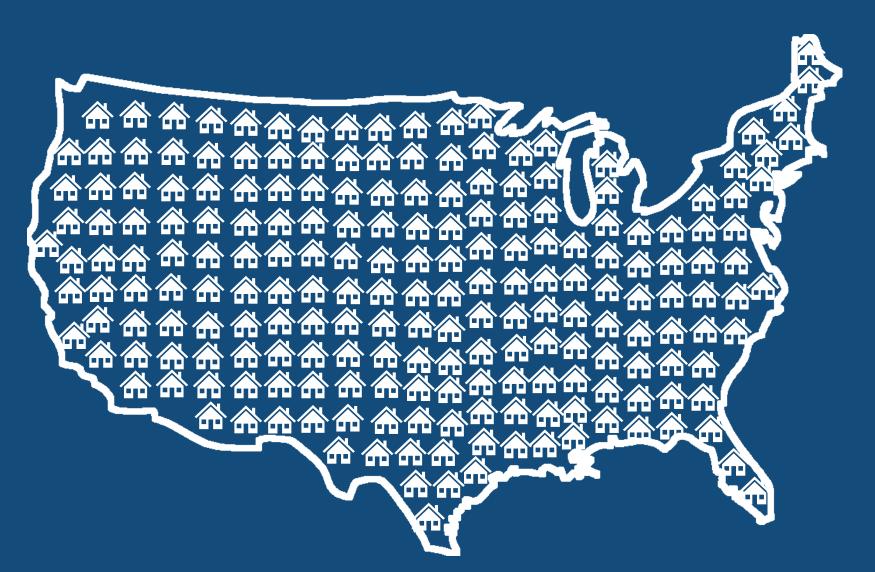
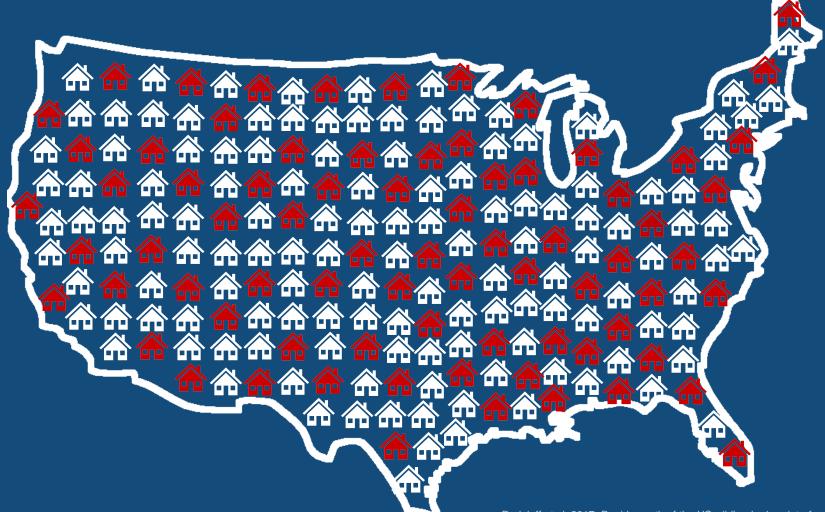
What % of U.S. homes are located in the wildland-urban interface?



What % of U.S. homes are located in the wildland-urban interface?



One in three.













DOOM GLOOM



Socioeconomic Tools for Wildfire Resilience in Austin









HEADWATERS













Austin & Community Planning Assistance for Wildfire



- Featured case study (2015)
- Land Use Planning recommendations (2016)
- Vulnerable Populations Tool (2018)

Three Strategies:

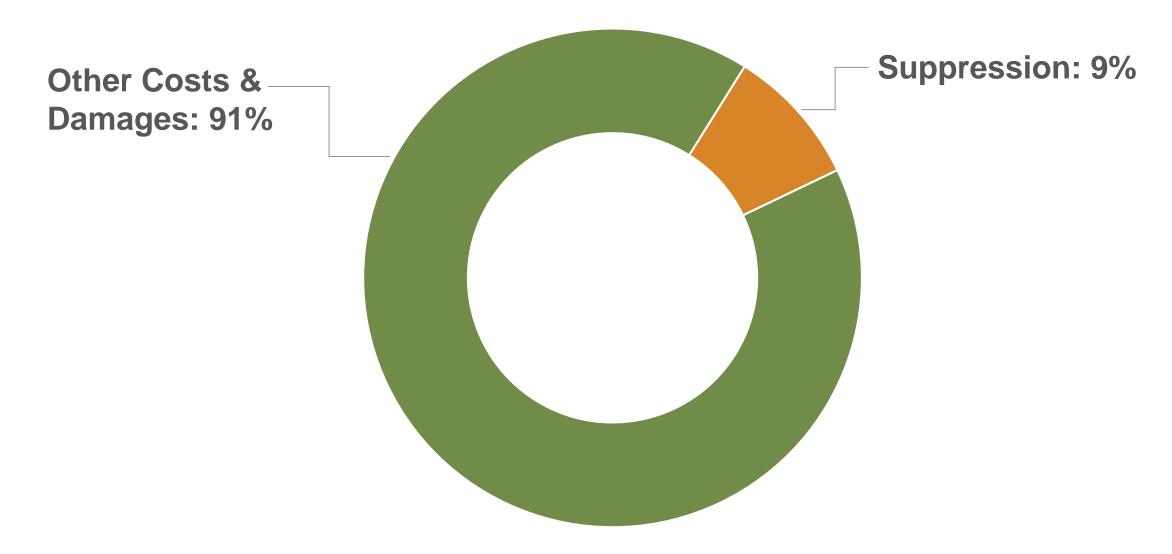
- 1. Understand the true costs
- 2. Identify vulnerable neighborhoods
- 3. Prioritize actions that work

Three Strategies:

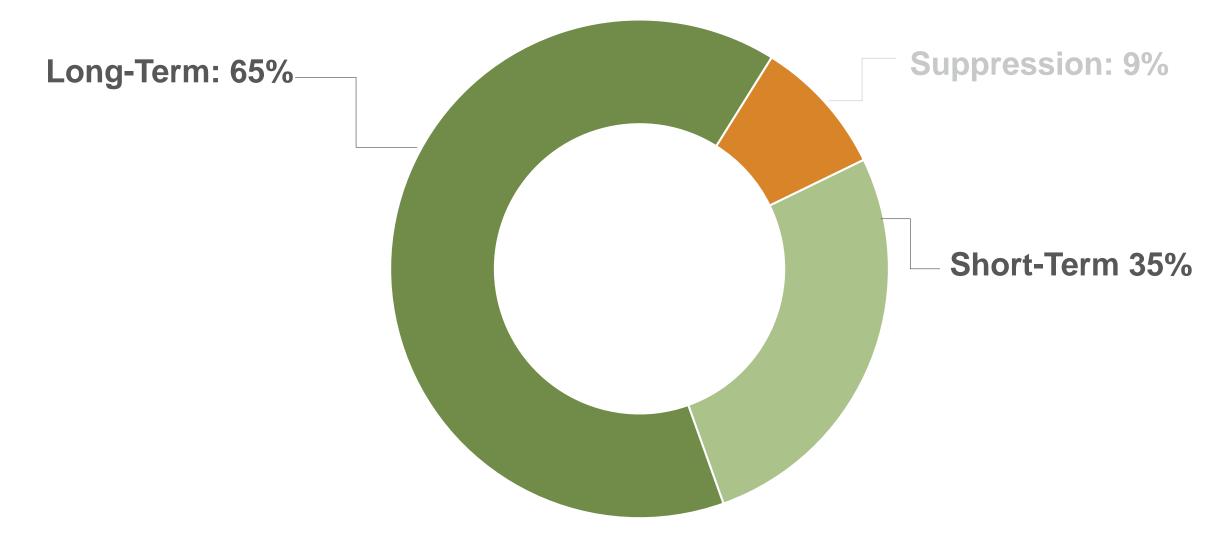
- 1. Understand the true costs
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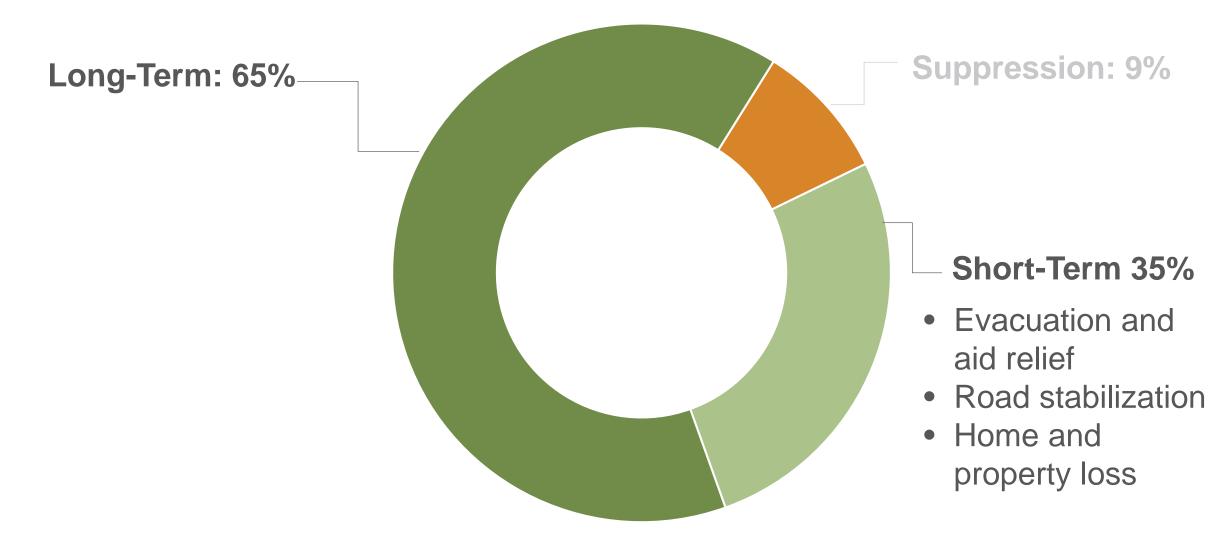
Suppression is only 9% of total fire costs



Most costs are long-term



Most costs are long-term

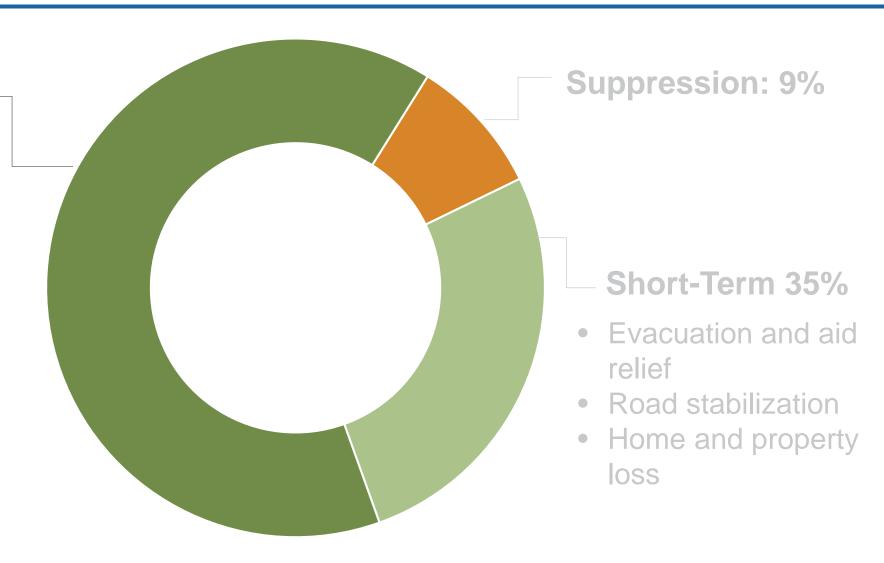


Most costs are long-term

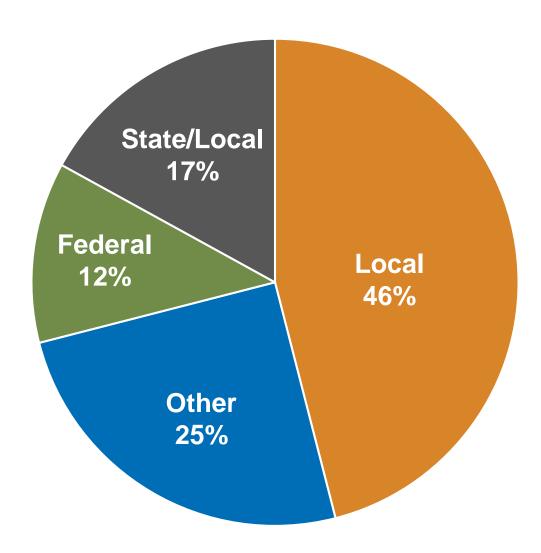


 Loss of property value, tax, business revenue

- Rehabilitation
- Infrastructure
- Loss of ecosystem services
- Human casualties



Nearly Half of All Wildfire Costs are Local

























Three Strategies:

- 1. Understand the true costs
- 2. Identify vulnerable neighborhoods
- 3. Prioritize actions that work

What neighborhoods are disproportionately at risk?

What neighborhoods are disproportionately at risk?



Wildfire Hazard

- Wildfire Potential
- Flame Length
- Rate of Spread

What neighborhoods are disproportionately at risk?



Wildfire Hazard

- Wildfire Potential
- Flame Length
- Rate of Spread

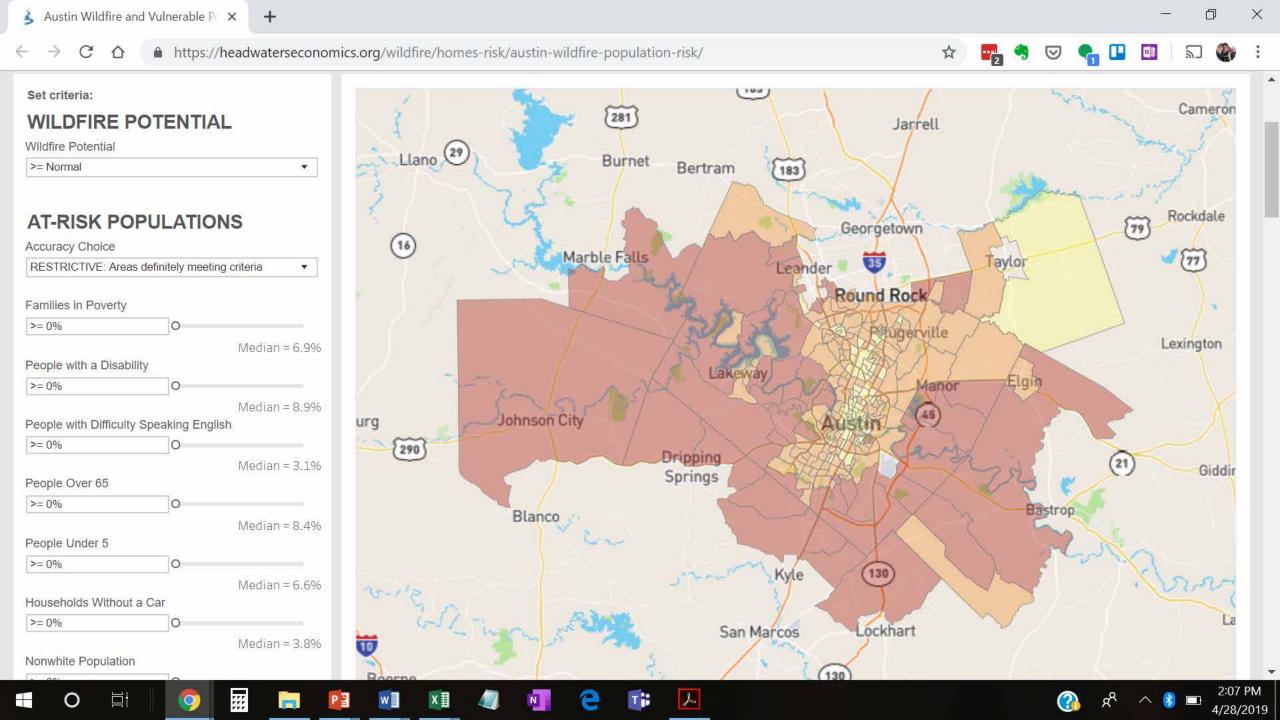


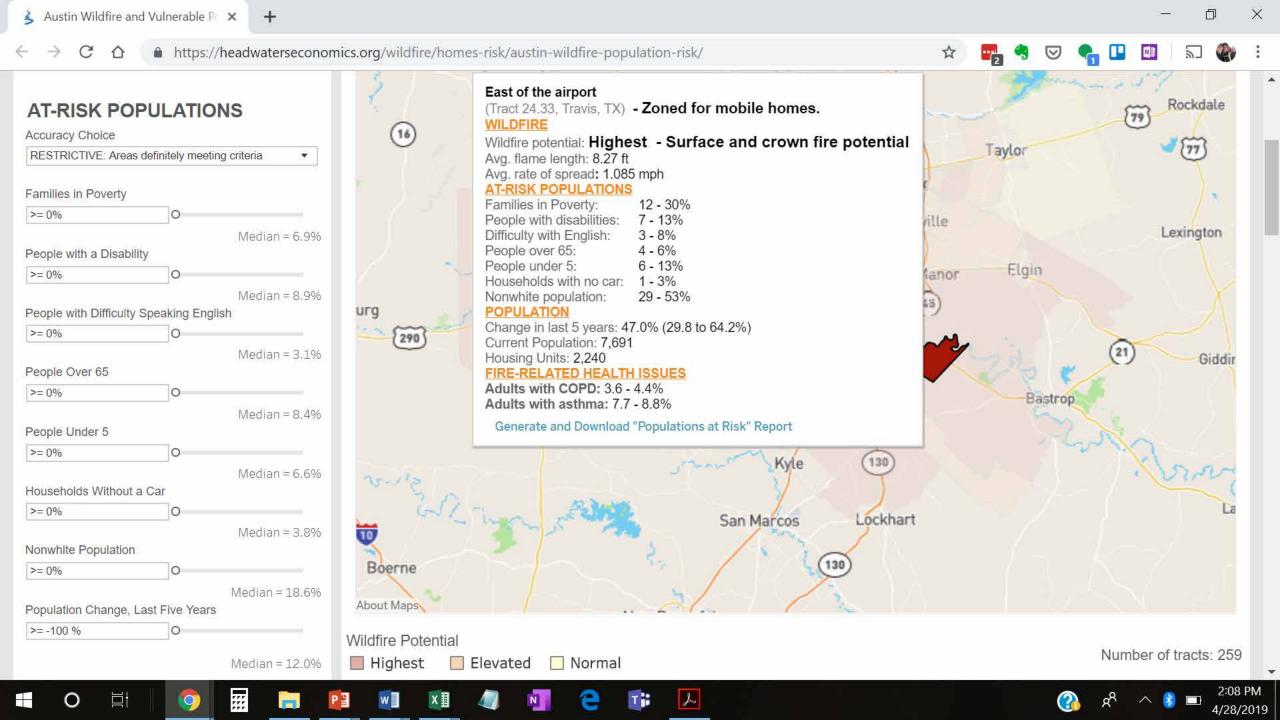


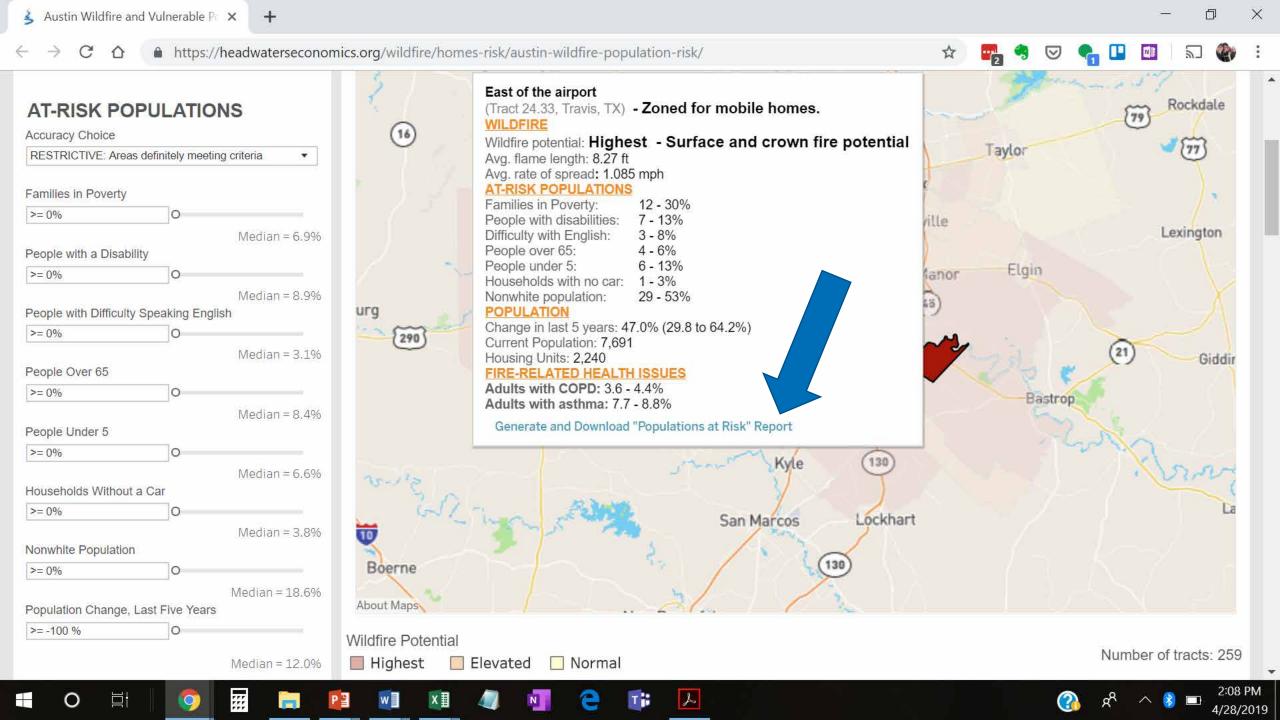


Socioeconomic Variables

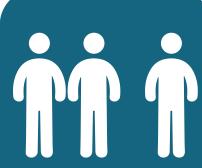
- Families in poverty
- People with disability
- People with difficulty speaking English
- People over 65
- People under 5
- Households without a car
- Nonwhite population
- Population and rate of change
- Housing units
- Adults with COPD
- Adults with asthma





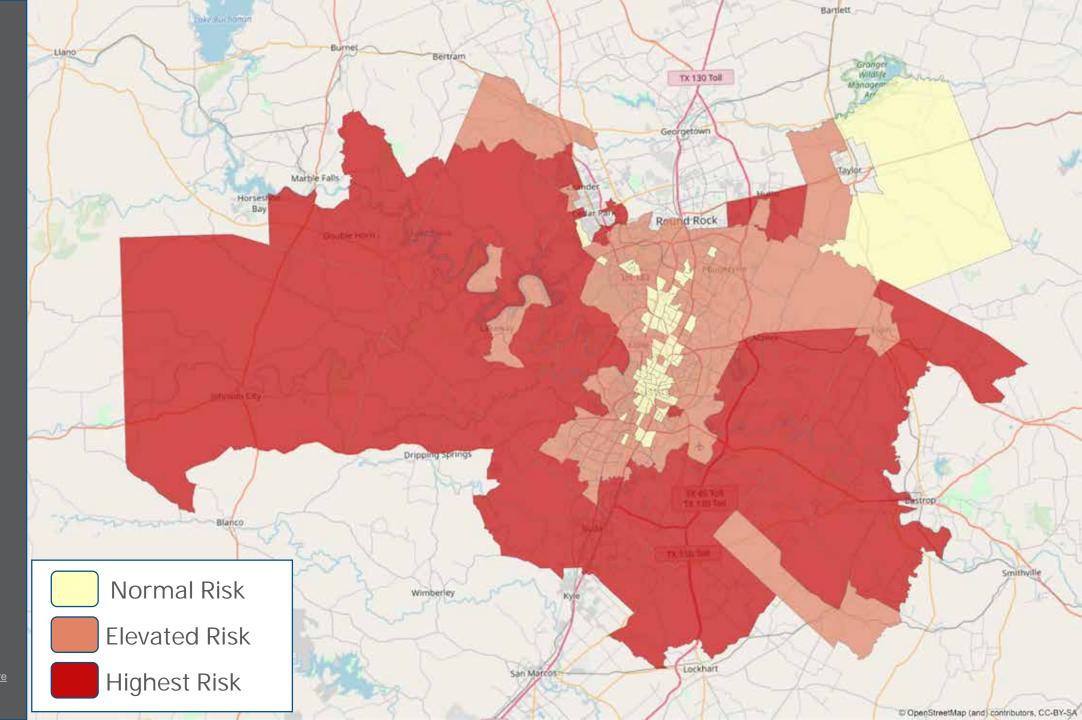


Populations at Risk Report

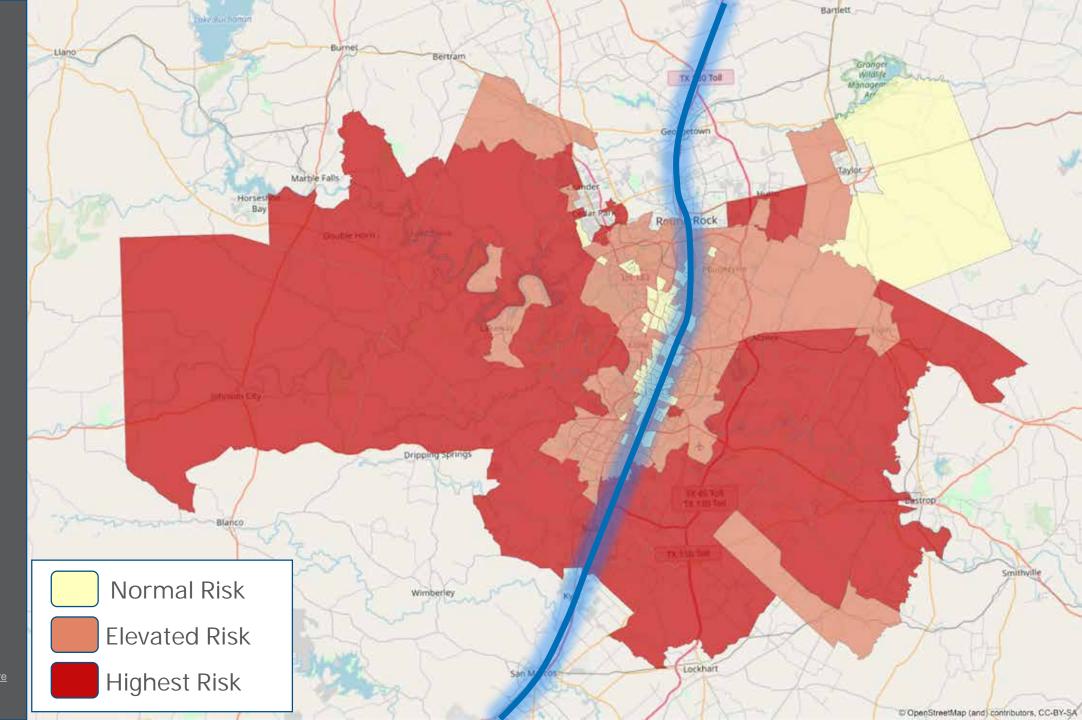




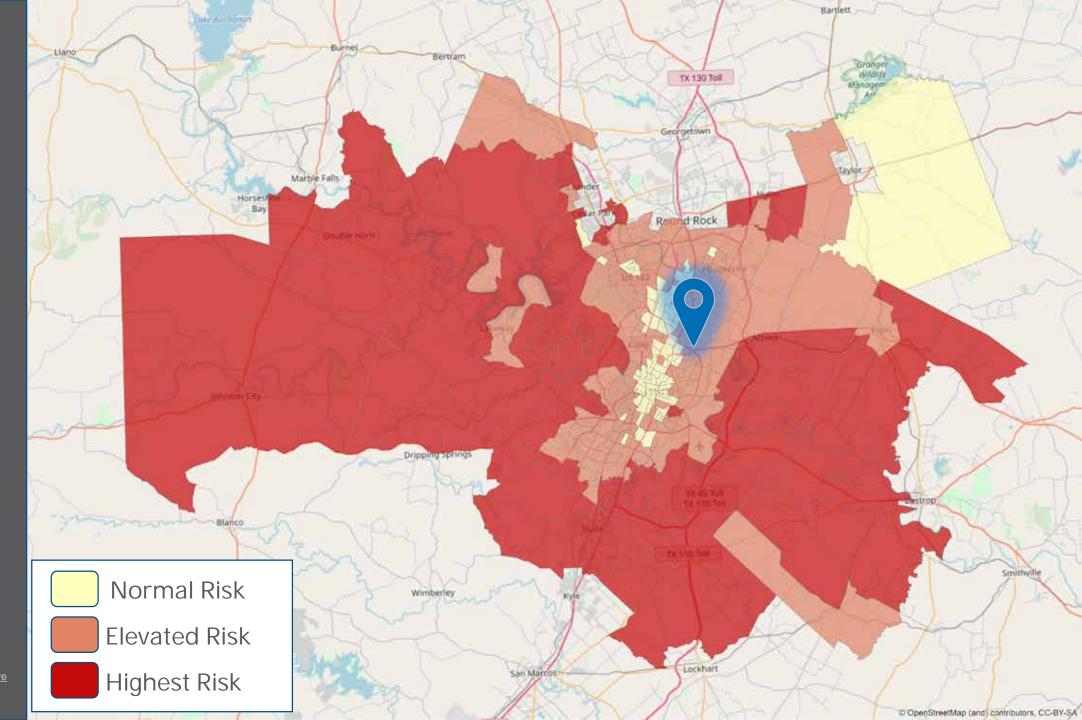
Wildfire Potential



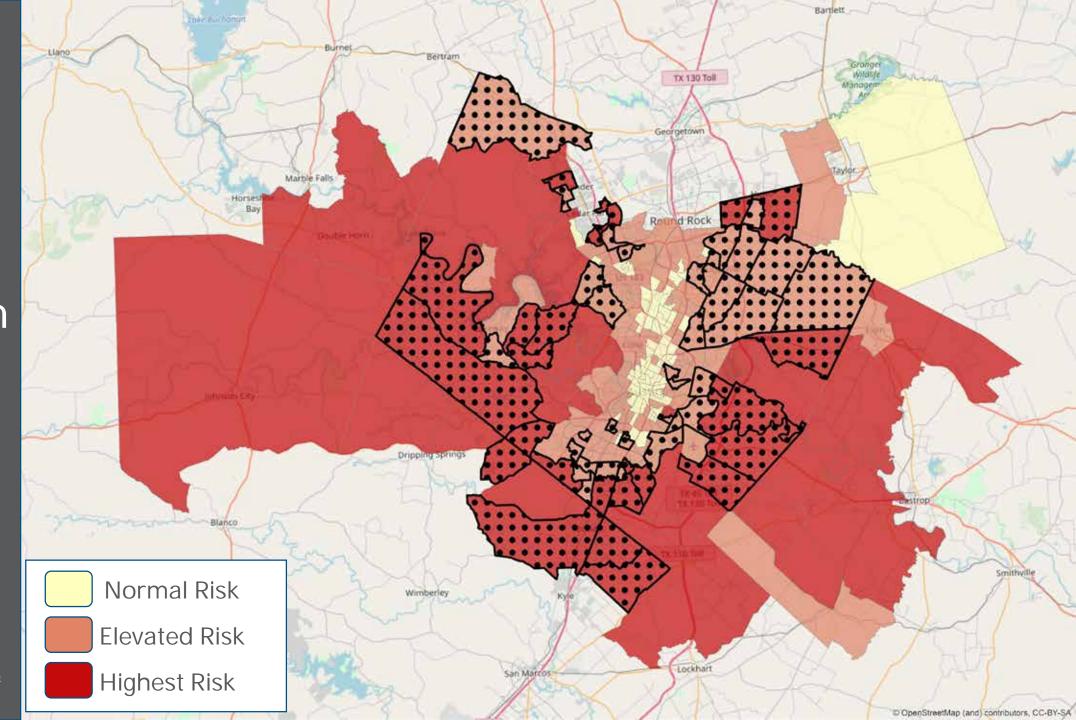
Wildfire Potential



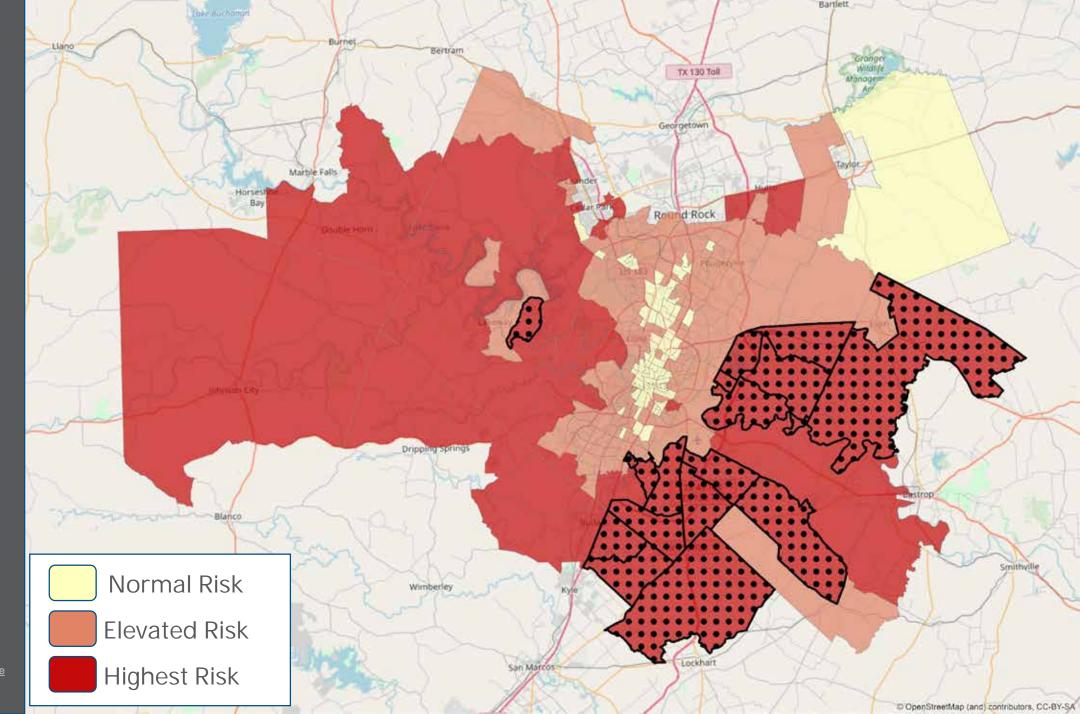
Wildfire Potential



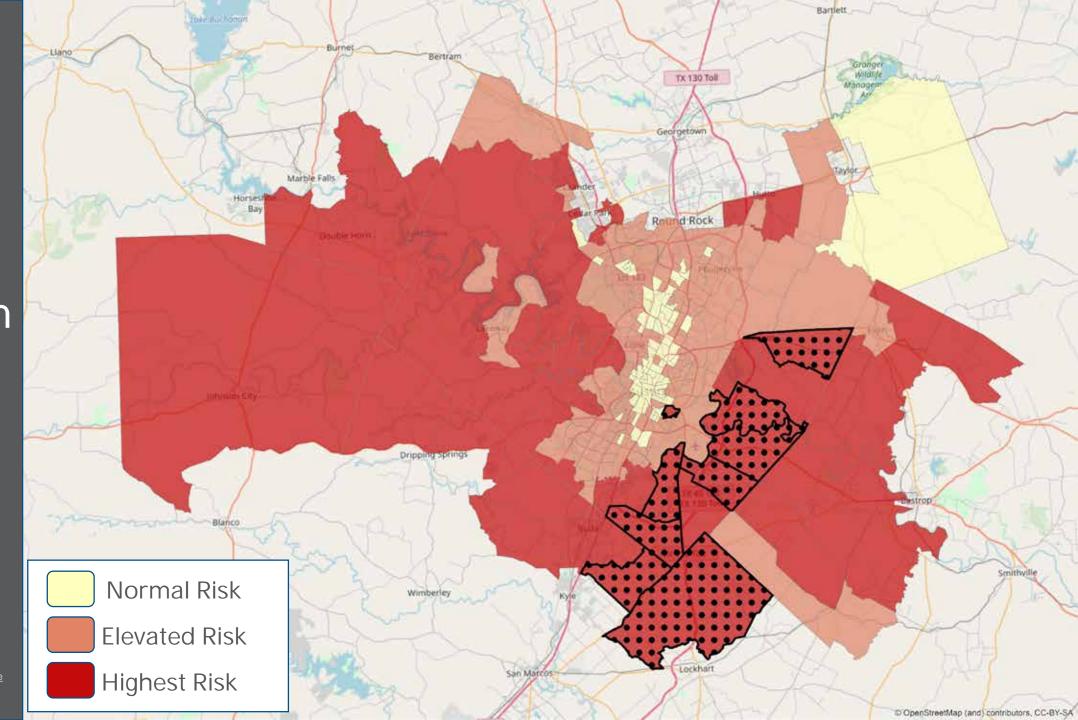
Population Growth



Difficulty Speaking English



Families in Poverty

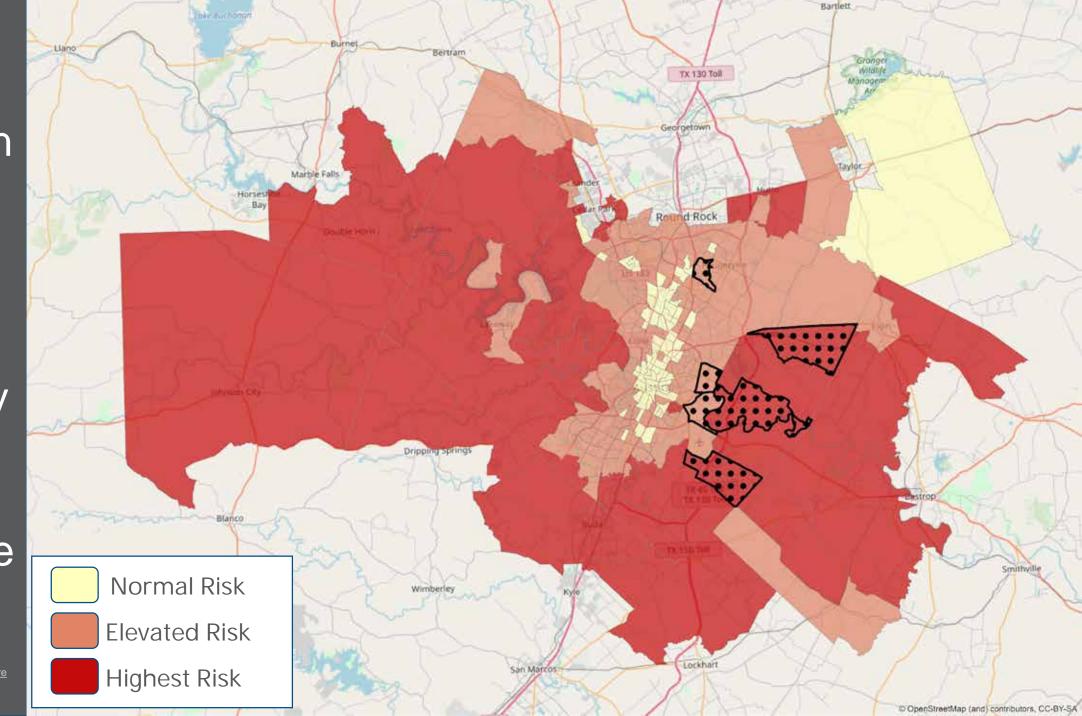


Population Growth

+ Poverty

+ Difficulty English

+Nonwhite



Headwaterseconomics.org





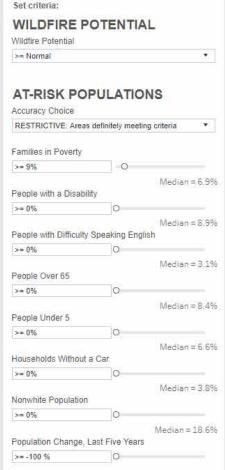
Research >

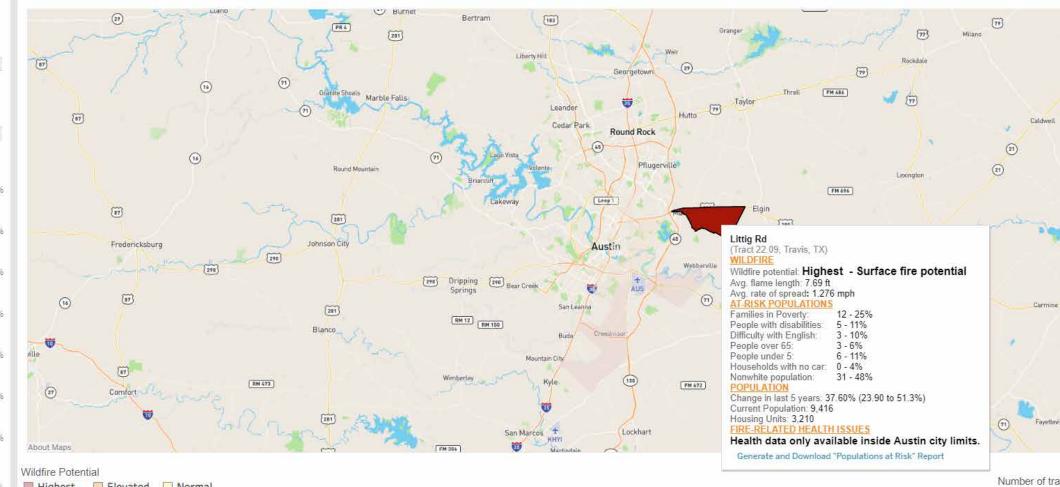
Tools ∨

About Us >



Austin Wildfire and Vulnerable Populations Tool





Three Strategies:

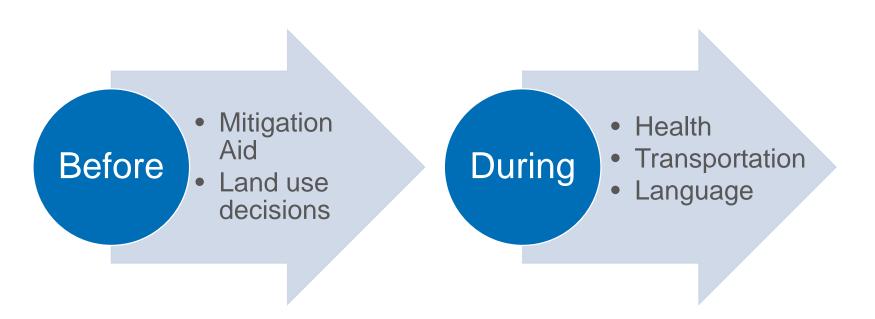
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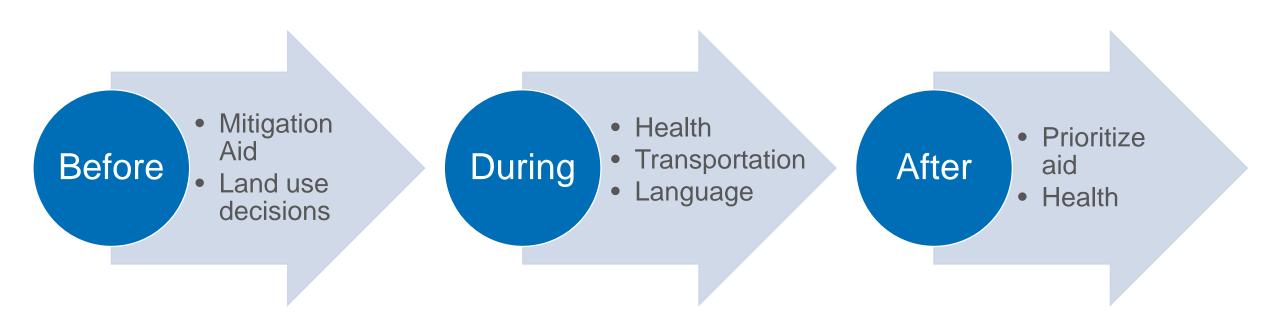
Equity & Resilience



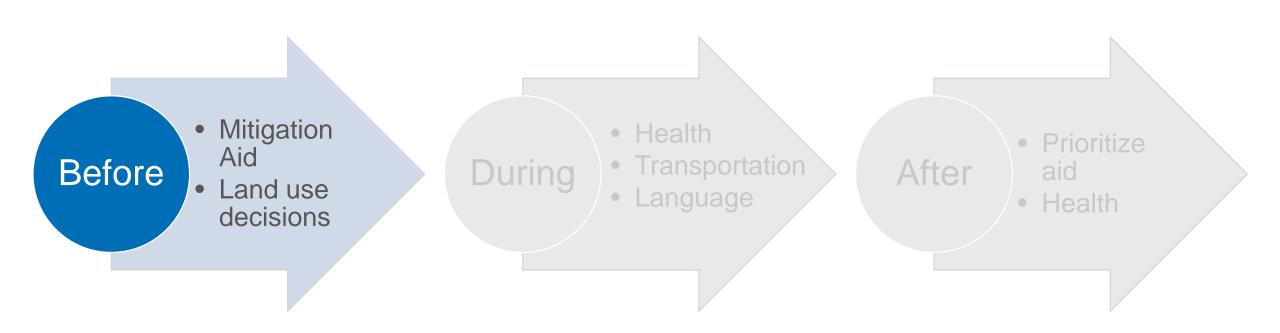
Equity & Resilience



Equity & Resilience



Equity & Resiliency



The Home Ignition Zone



The Home Ignition Zone



https://headwaterseconomics.org

Cohen, J. The Wildland-Urban Interface Fire Problem: A Consequence of the Fire Exclusion Paradigm. Fall 2008. Forest History Today. https://www.fs.fed.us/rm/pubs_other/rmrs_2008_cohen_j002.pdf

Most WUI Disasters Happen Because of Embers

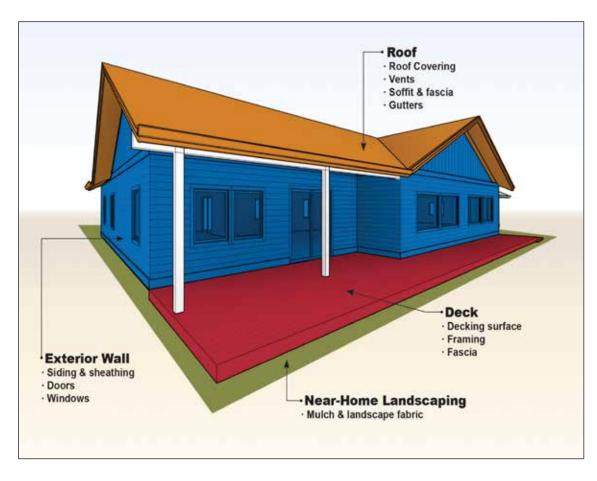




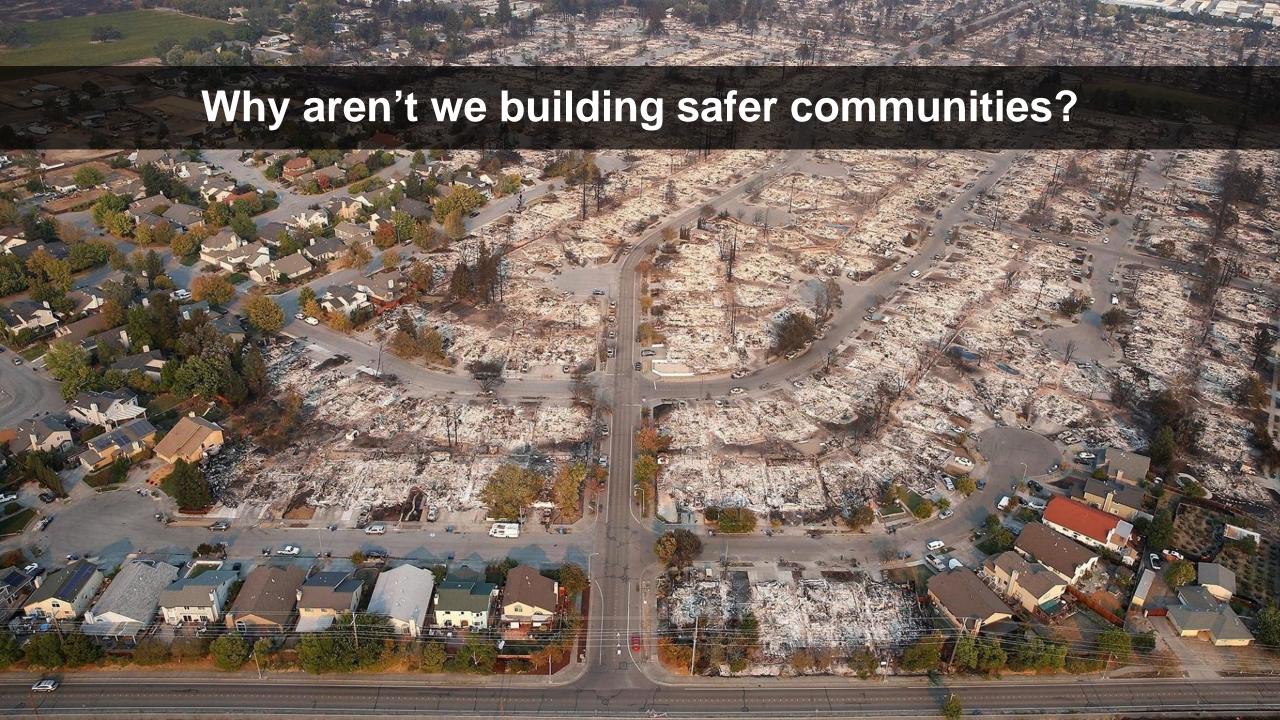
Insurance Institute for Business & Home Safety: Wildfire Demo

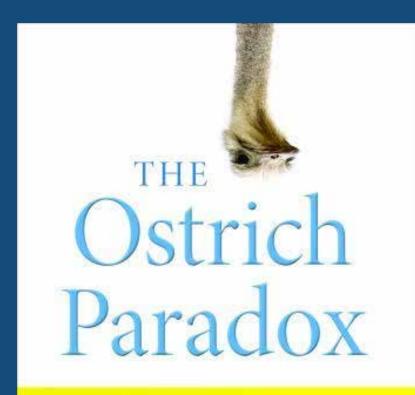


A wildfire-resistant home is comparable in cost









WHY WE UNDERPREPARE FOR DISASTERS

Robert Meyer and Howard Kunreuther





People are naturally prone to a range of biases that inhibit long-term thinking."









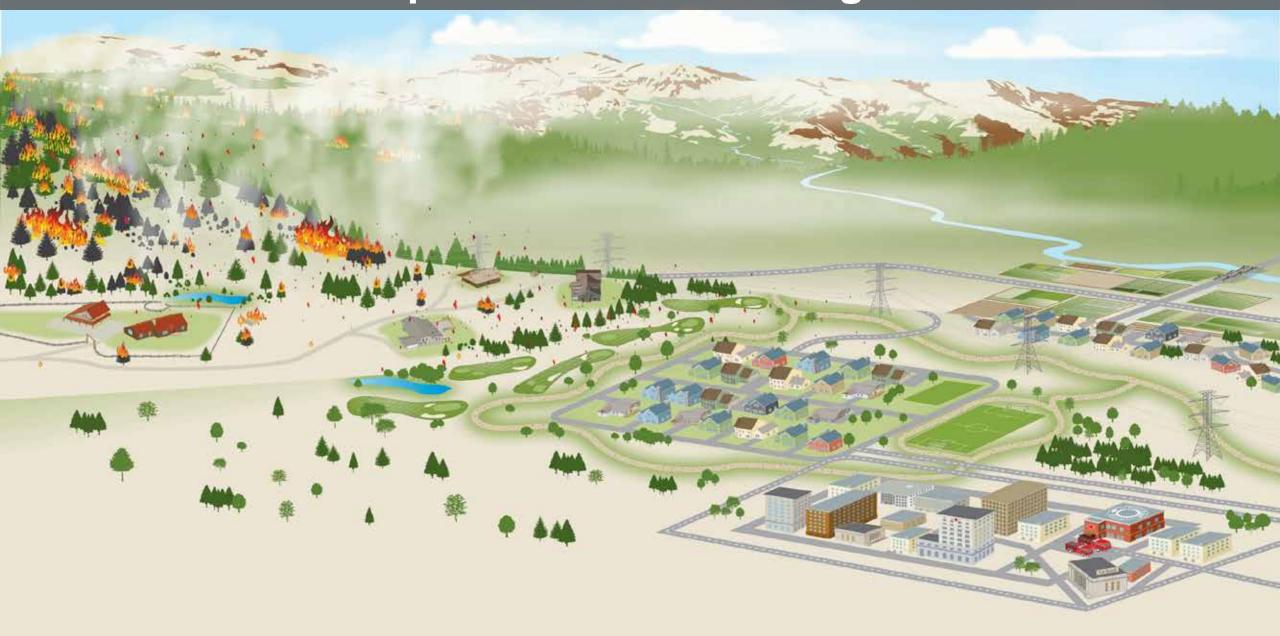


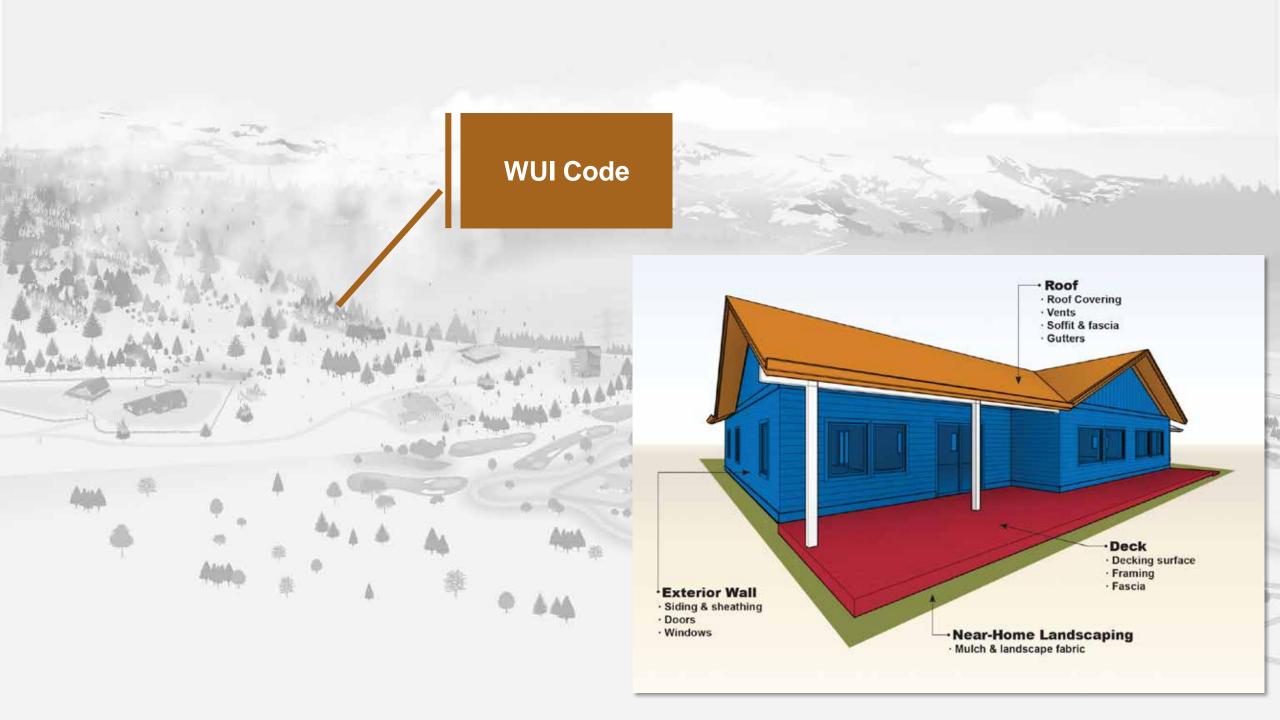


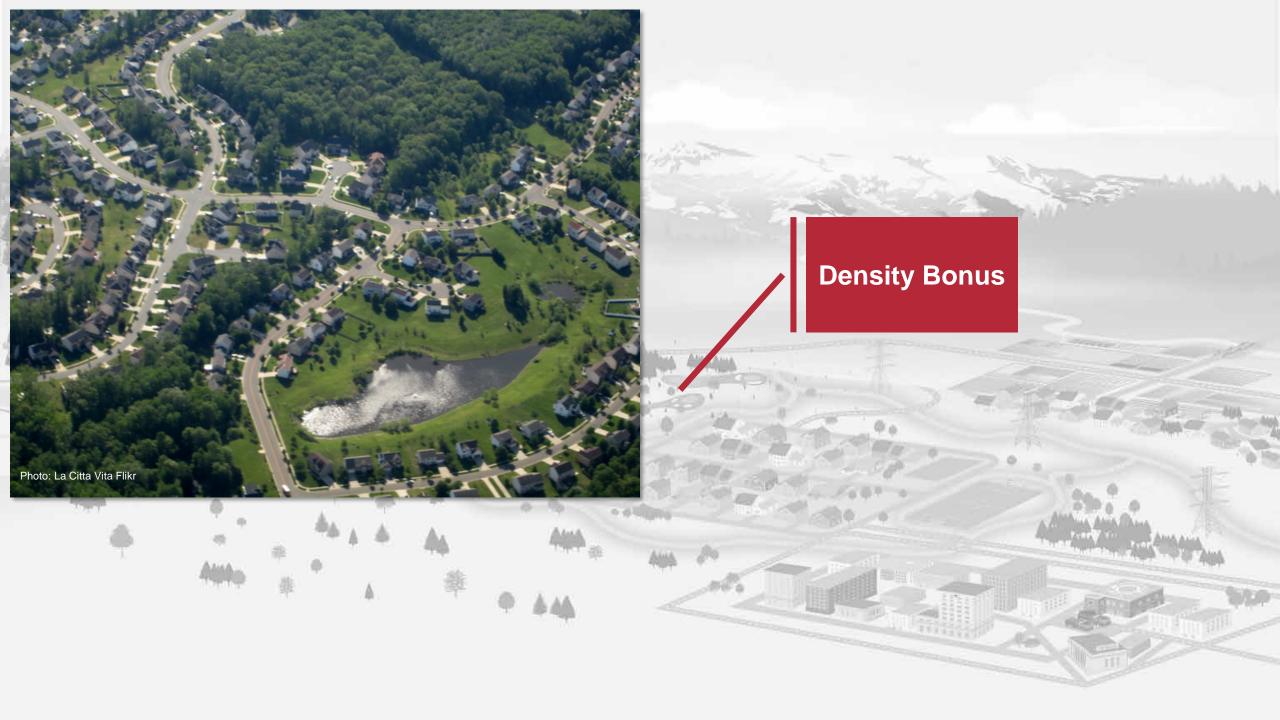




Example Land Use Planning Tools



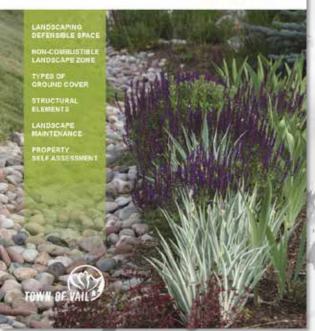


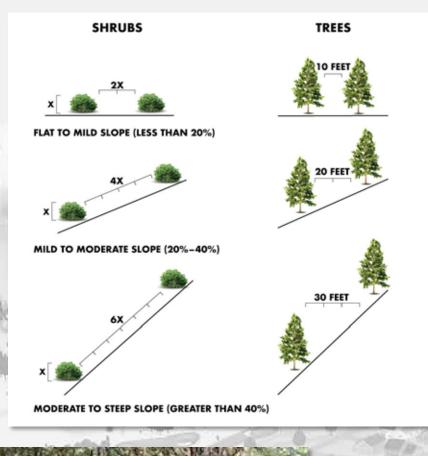




A "how to" guide for protecting your home





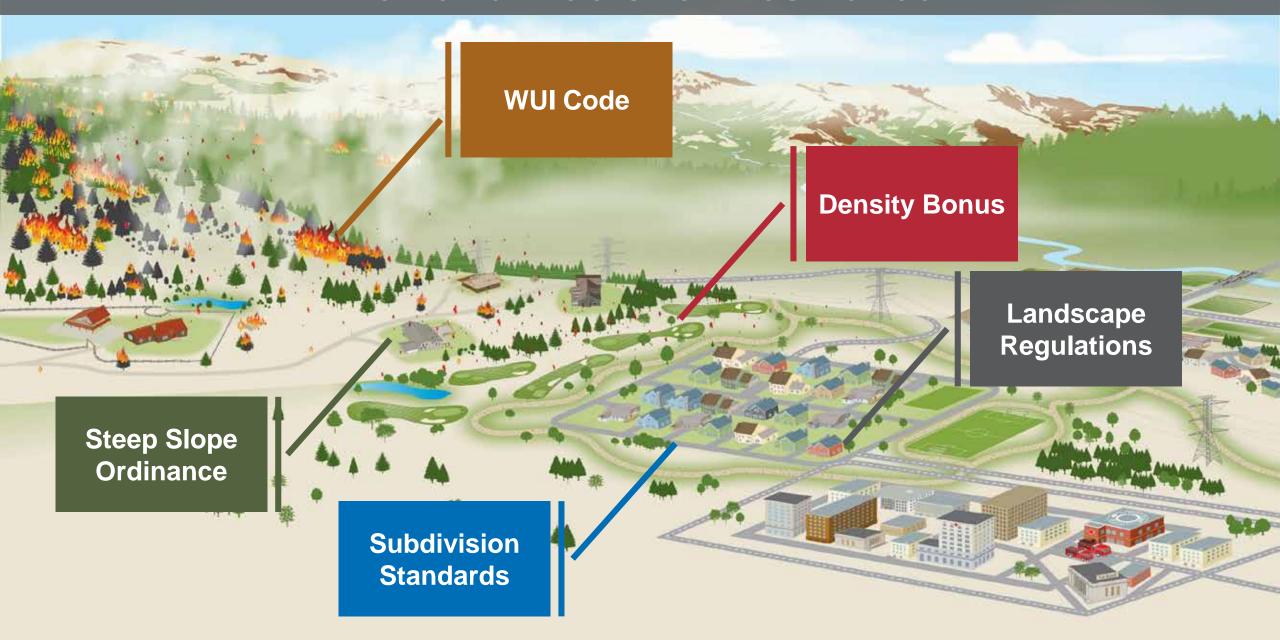








Powerful Tools for Resilience











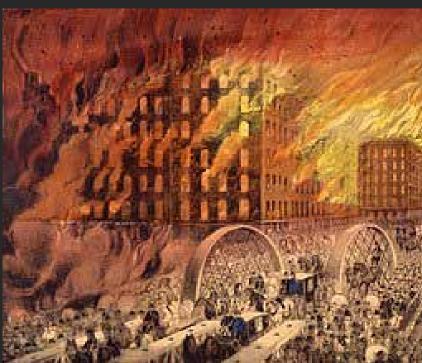












Thank you!



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