ALL-IN CLARK COUNTY

BOLD ACTION FOR A SUSTAINABLE FUTURE

RESILIENT & HEALTHY COMMUNITY

THURSDAY FEB 24

VIRTUAL FORUM SERIES

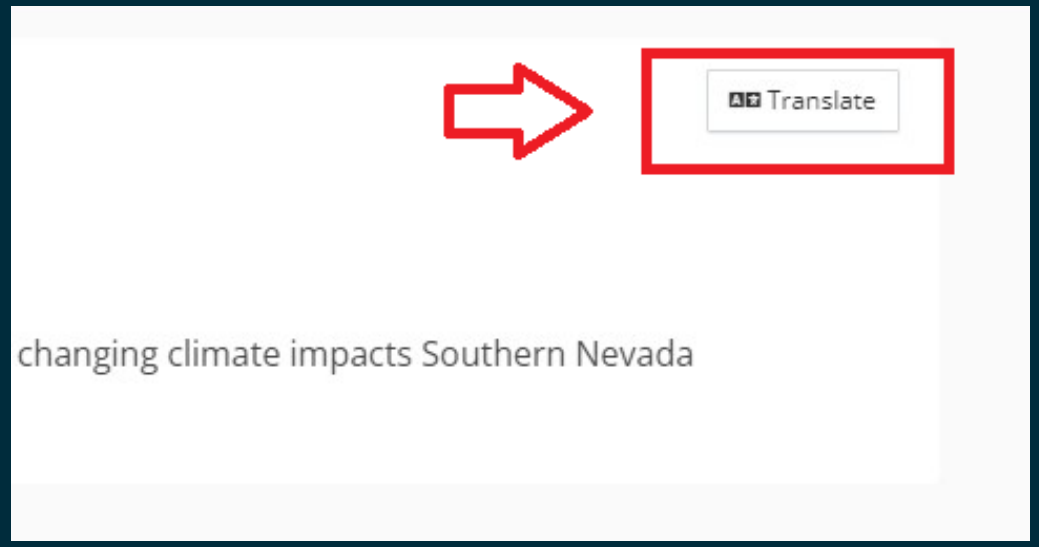
https://publicinput.com/D4281

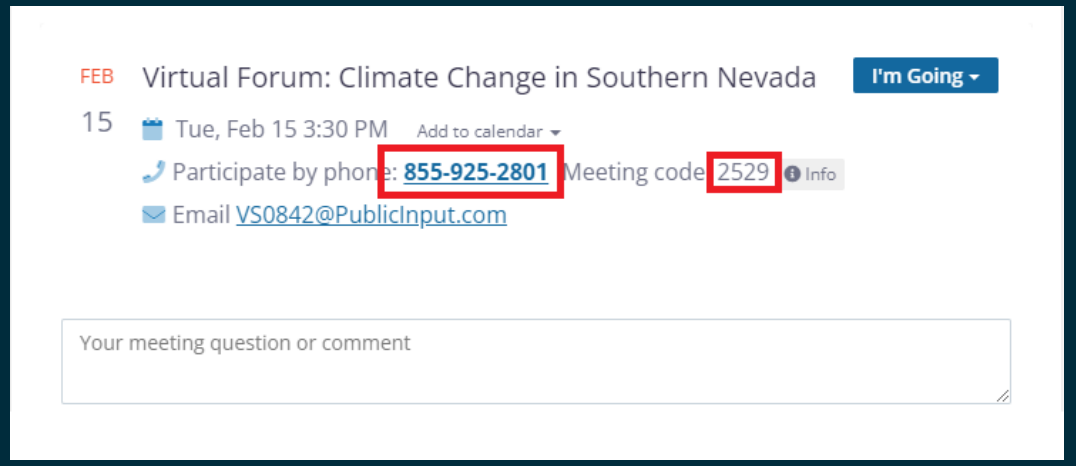
Forum Objectives

- **Review** how climate change is related to public health
- **Describe** the types of actions we can take to prepare for extreme weather events
- **Discuss** ideas and considerations to achieve actions in this focus area

How to Use Public Input

- **Call in** to hear audio and leave voicemail comments
- **Type** comments into the chat
- **Translate** the page and meeting audio





All-In Clark County

Address climate change and create a more sustainable future.

A smart, bold, inclusive approach to ensuring the well-being and prosperity of all, today and for future generations.

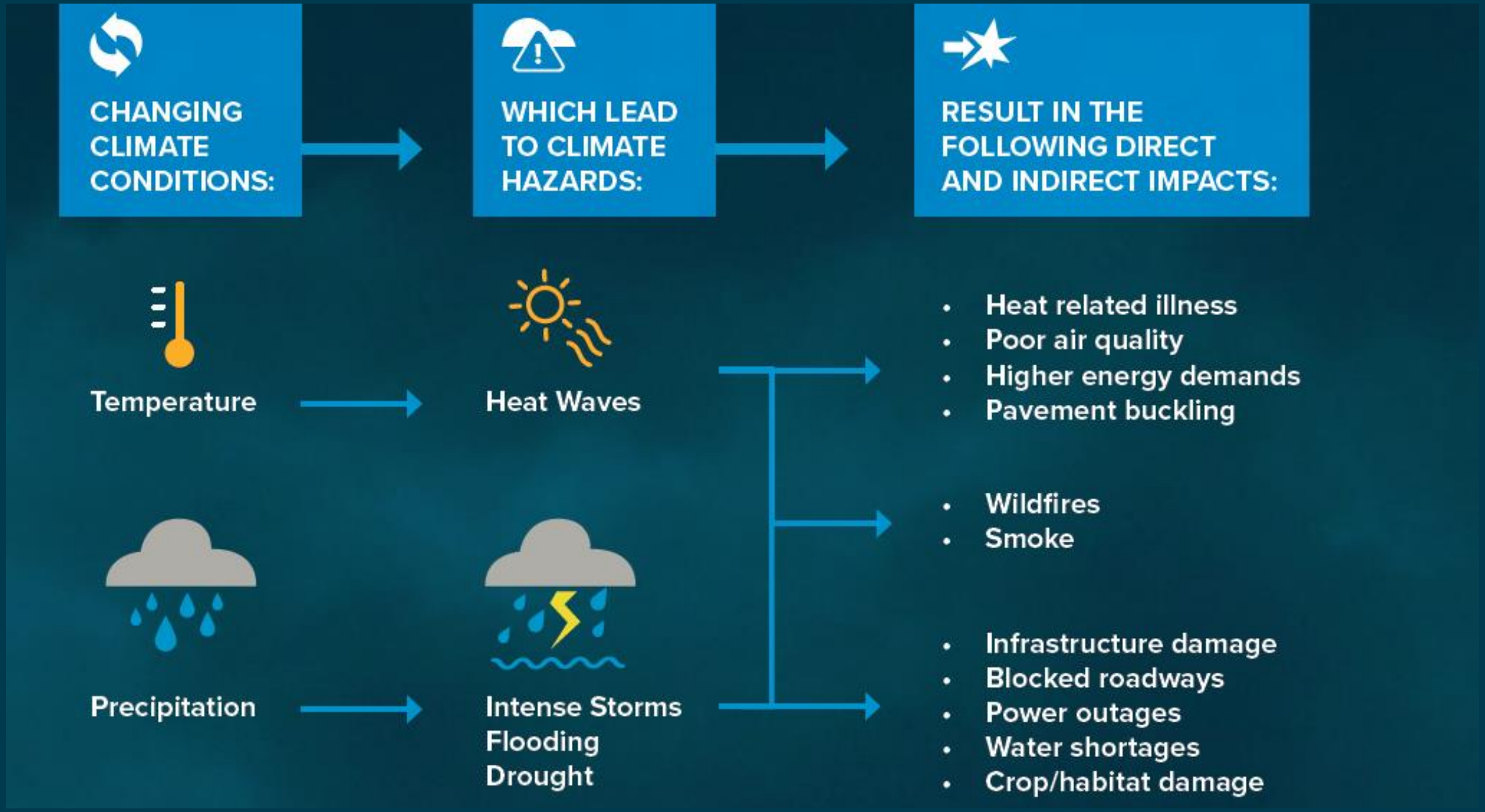
Led by **Department of Environment and Sustainability**

Samantha Baker

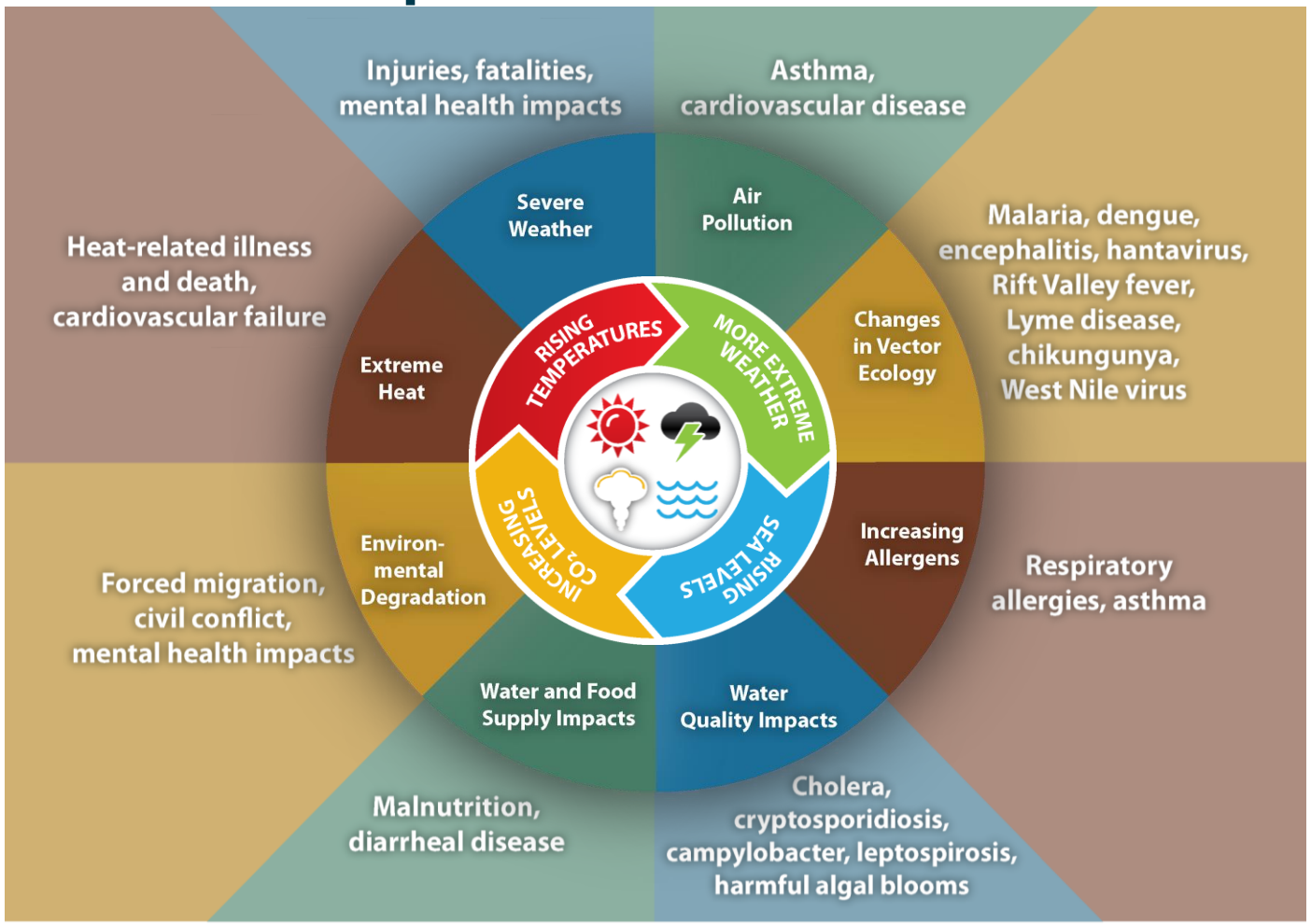
Sustainability Program Administrator

Quick Poll

CLIMATE CHANGE & PUBLIC HEALTH


CHANGING CLIMATE CONDITIONS:
WHICH LEAD TO CLIMATE HAZARDS:
RESULT IN THE FOLLOWING DIRECT AND INDIRECT IMPACTS:
Temperature
Heat Waves
Precipitation
Intense Storms
Flooding
Drought
Heat related illness
Poor air quality
Higher energy demands
Pavement buckling
Wildfires
Smoke
Infrastructure damage
Blocked roadways
Power outages
Water shortages
Crop/habitat damage

Climate Impacts on Human Health



Source: CDC

Extreme Heat: By the Numbers

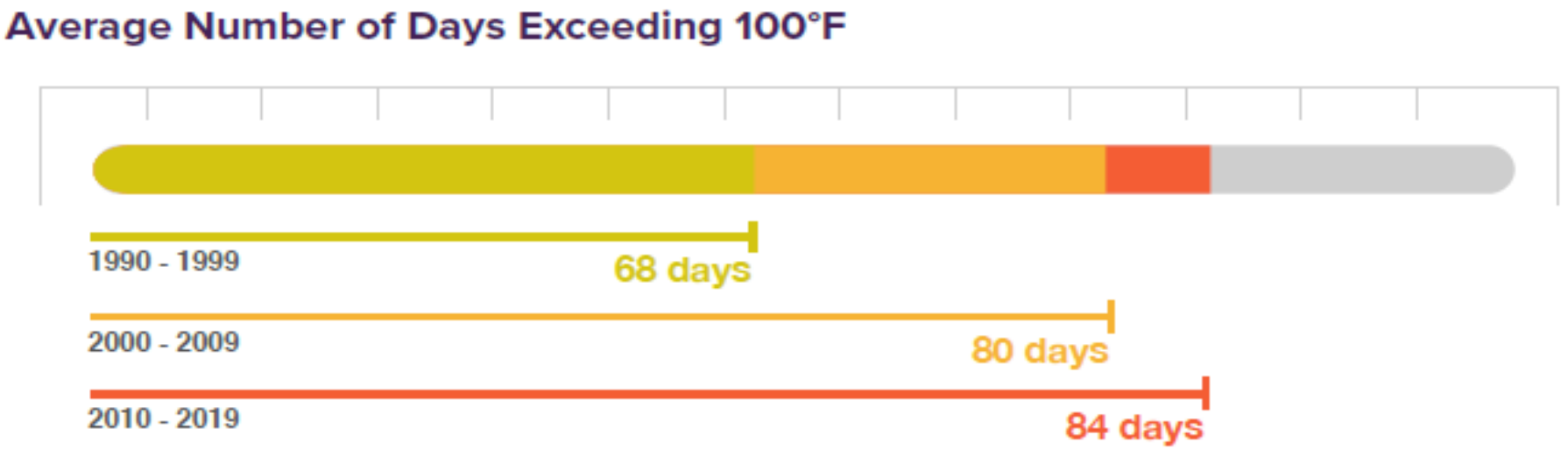
July 2021 was the hottest month on record, a record broken every July for the past 7 years

#1

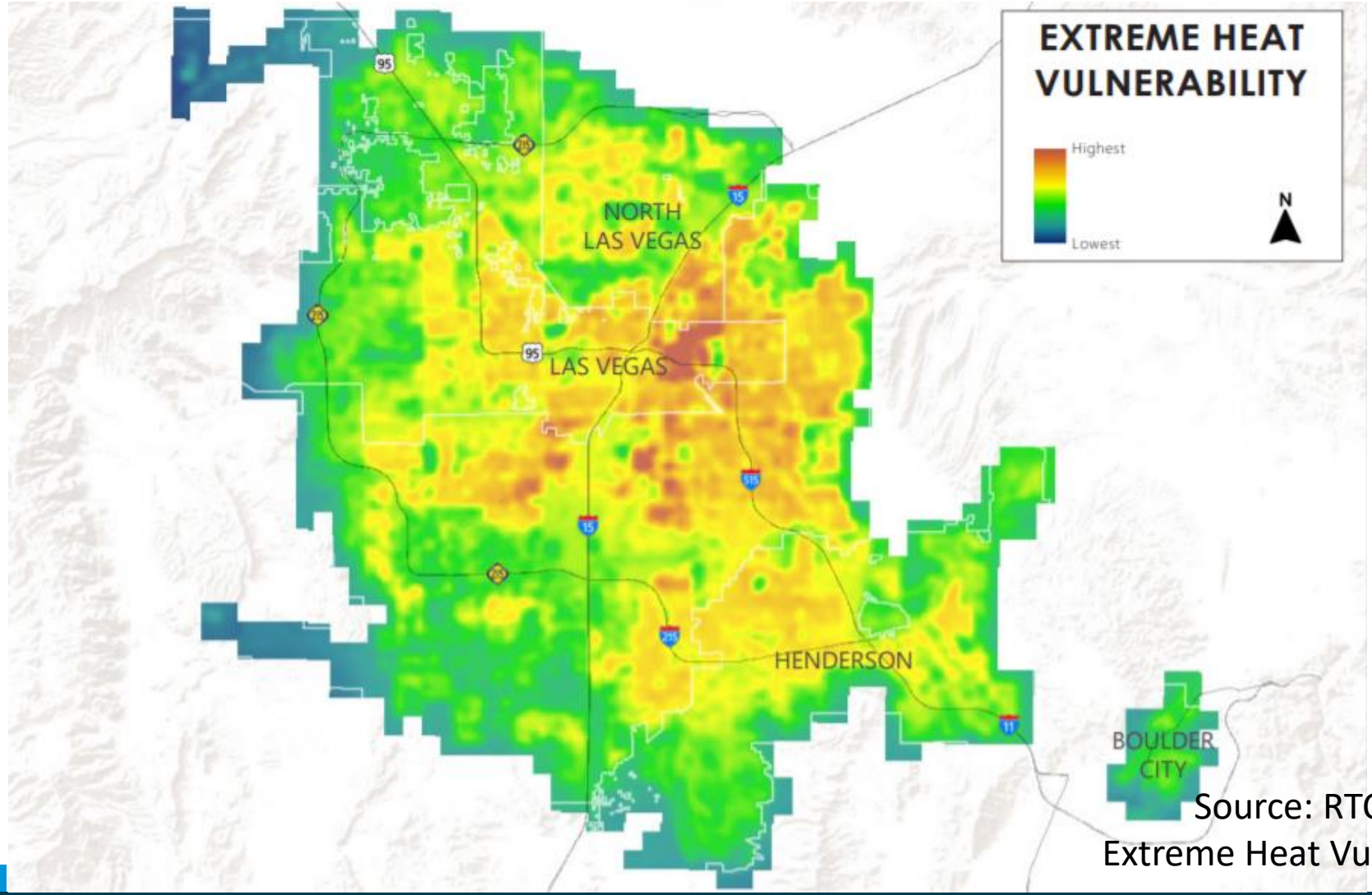
Extreme heat is the #1 leading cause of death among extreme weather events

568

heat-related deaths in Southern Nevada between 2009 and 2018

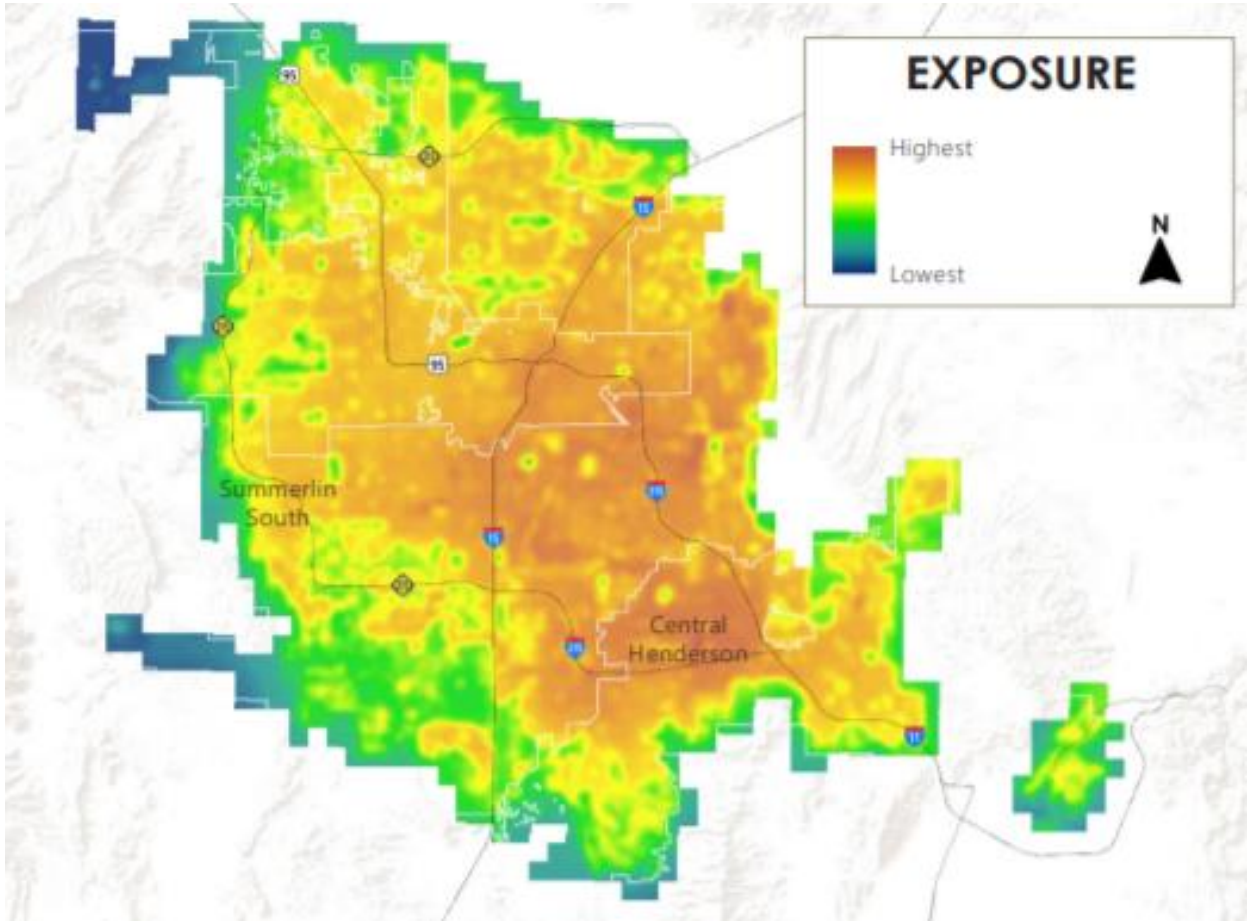


Extreme Heat Vulnerability Map



Source: RTC Southern Nevada Extreme Heat Vulnerability Analysis

What factors contribute to heat vulnerability?



Level of exposure may be influenced by:

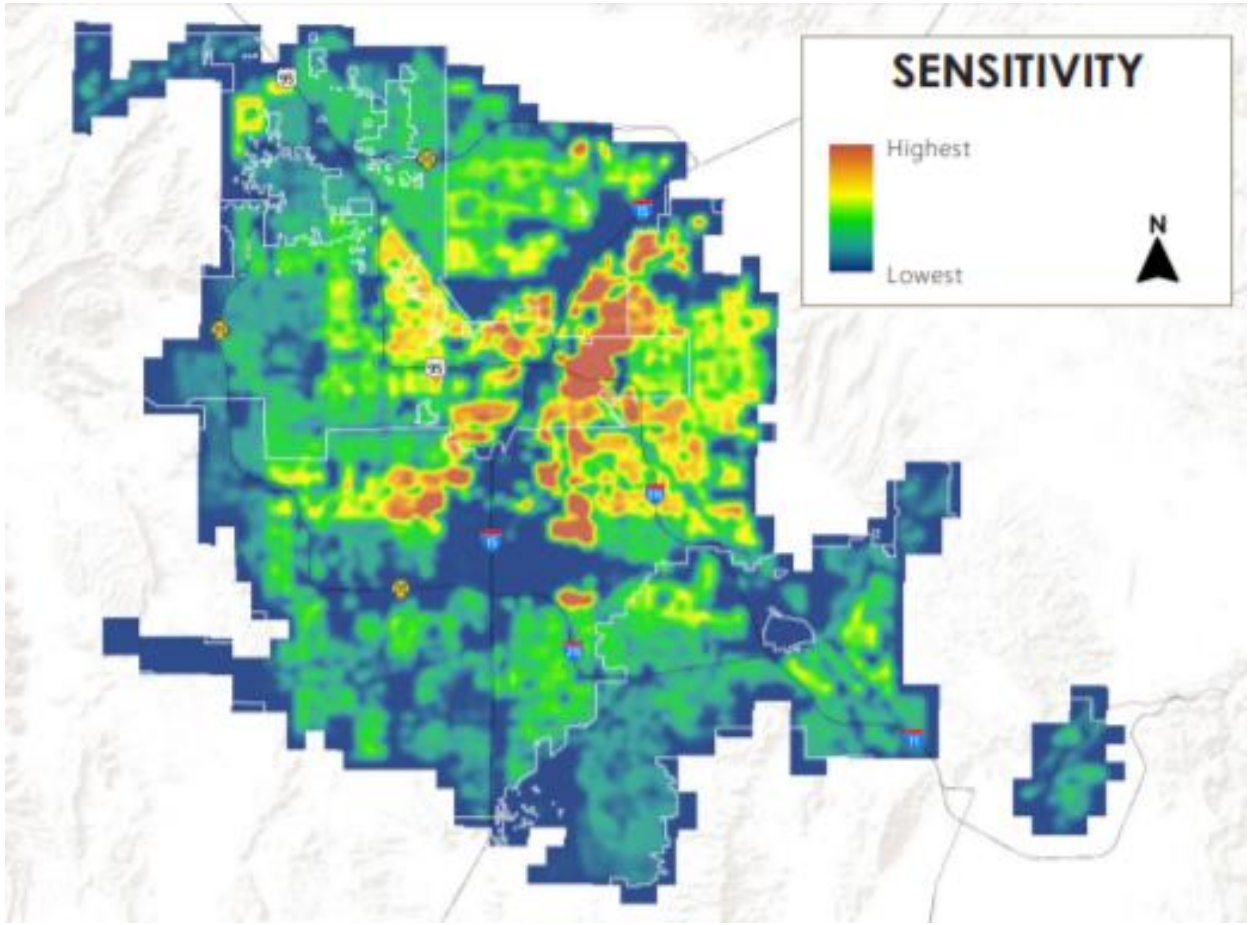
Built Environment

Natural Environment

Elevation

Source: RTC Southern Nevada Extreme Heat Vulnerability Analysis

What factors contribute to heat vulnerability?



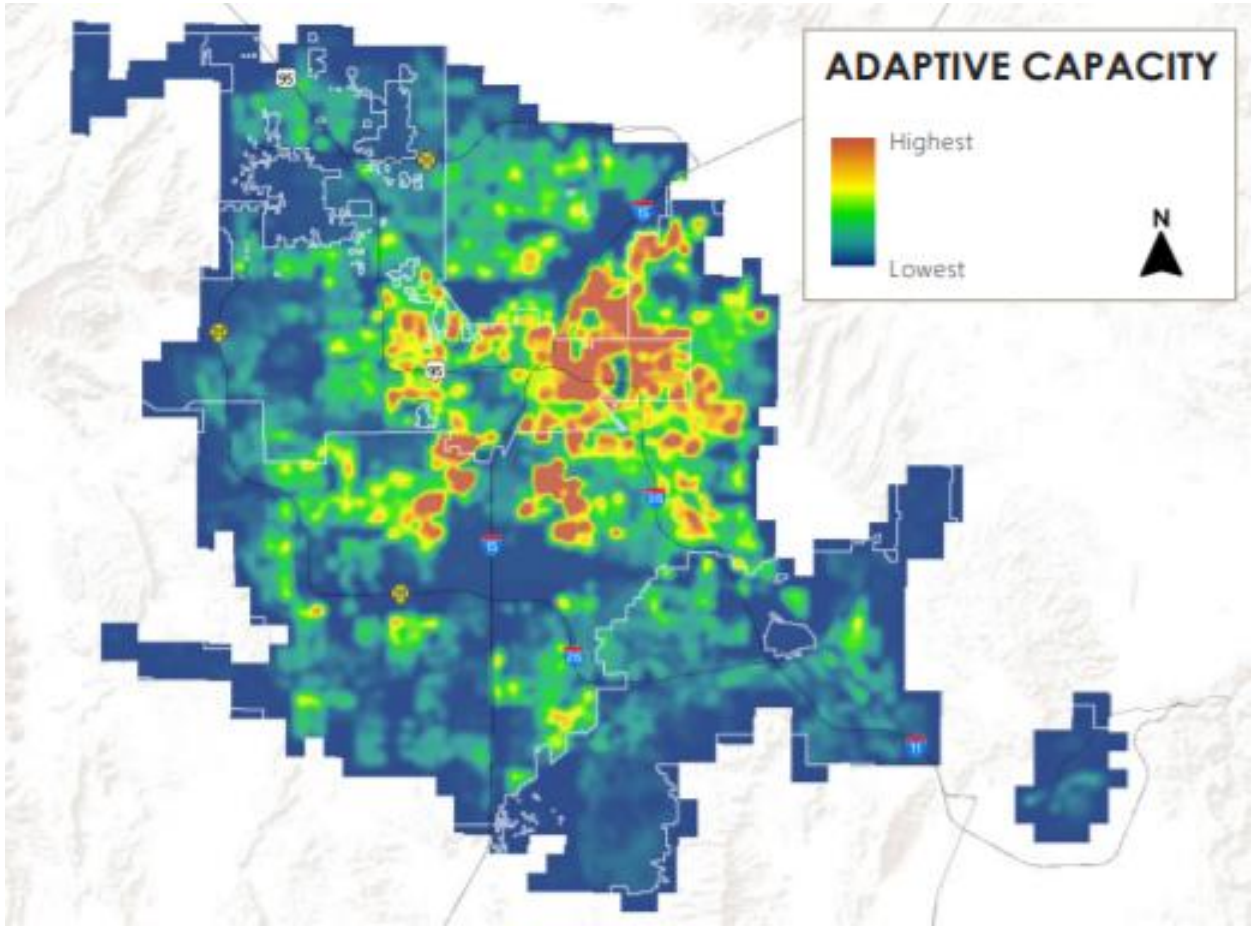
Sensitivity to heat may be influenced by:

Health conditions

Demographic factors

Source: RTC Southern Nevada Extreme Heat Vulnerability Analysis

What factors contribute to heat vulnerability?



Capacity to adapt may be influenced by:

Economic resources

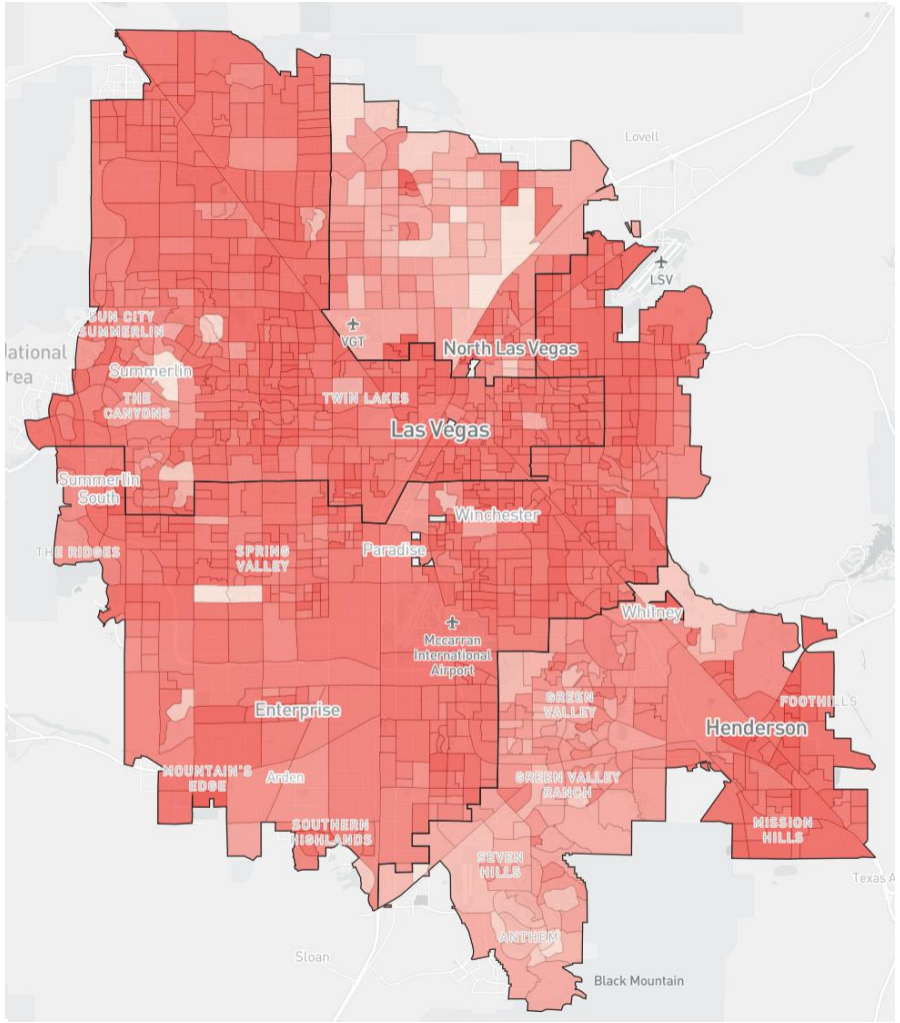
Social resources

Source: RTC Southern Nevada Extreme Heat Vulnerability Analysis

Extreme Heat: What it Means for Clark County

- Heat-induced illness or death, particularly for those with pre-existing health conditions and for frontline community members
- Increased health and safety risk for outdoor workers (construction, landscaping, delivery)
  - Need to shift or cut back hours, provide additional resources to ensure safety
- Increased heath and safety risk for people experiencing homelessness
  - Need additional programs and resources to appropriately support these populations
- Increased demand for cooling/energy
  - Worsened impacts for people without access to cooling

Natural Resources and Temperature



0% Tree canopy cover % 100%

Cool Temperature Hot

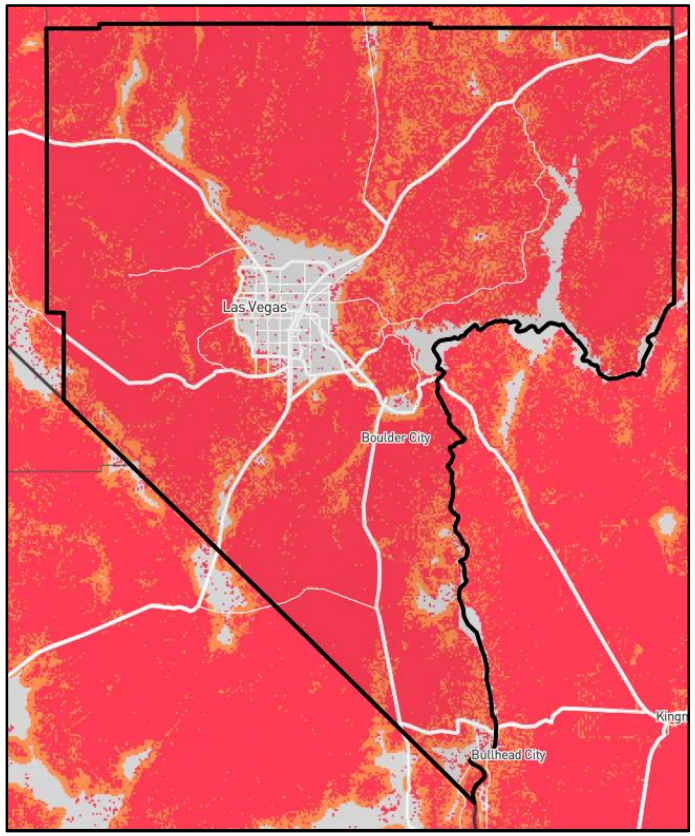
Source: American Forests Tree Equity Score

2-6%

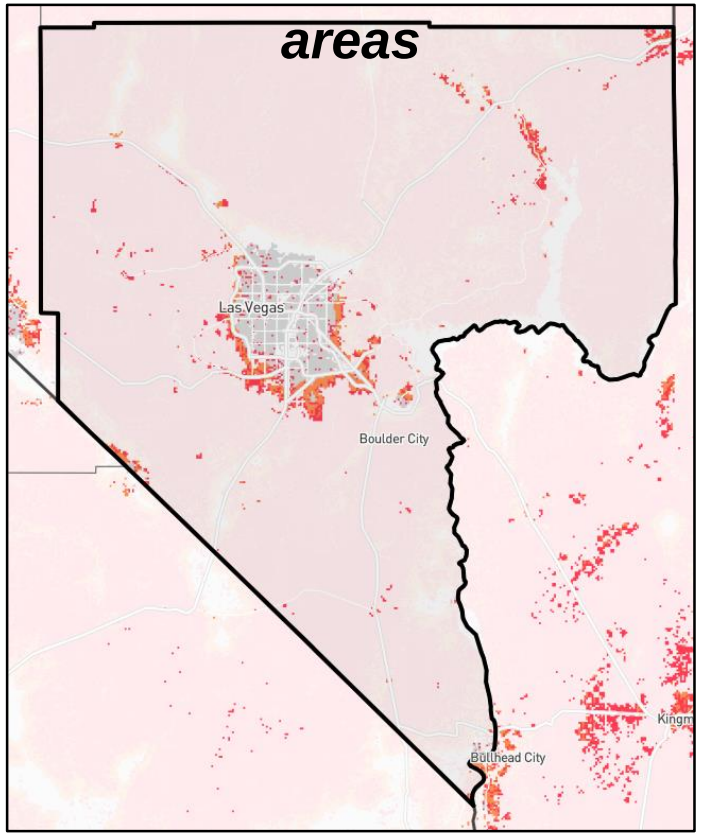
tree coverage in areas recording high urban heat compared to **10-20%** in neighborhoods recording lower temperatures

Wildfire Exposure in Clark County

Exposure of land area



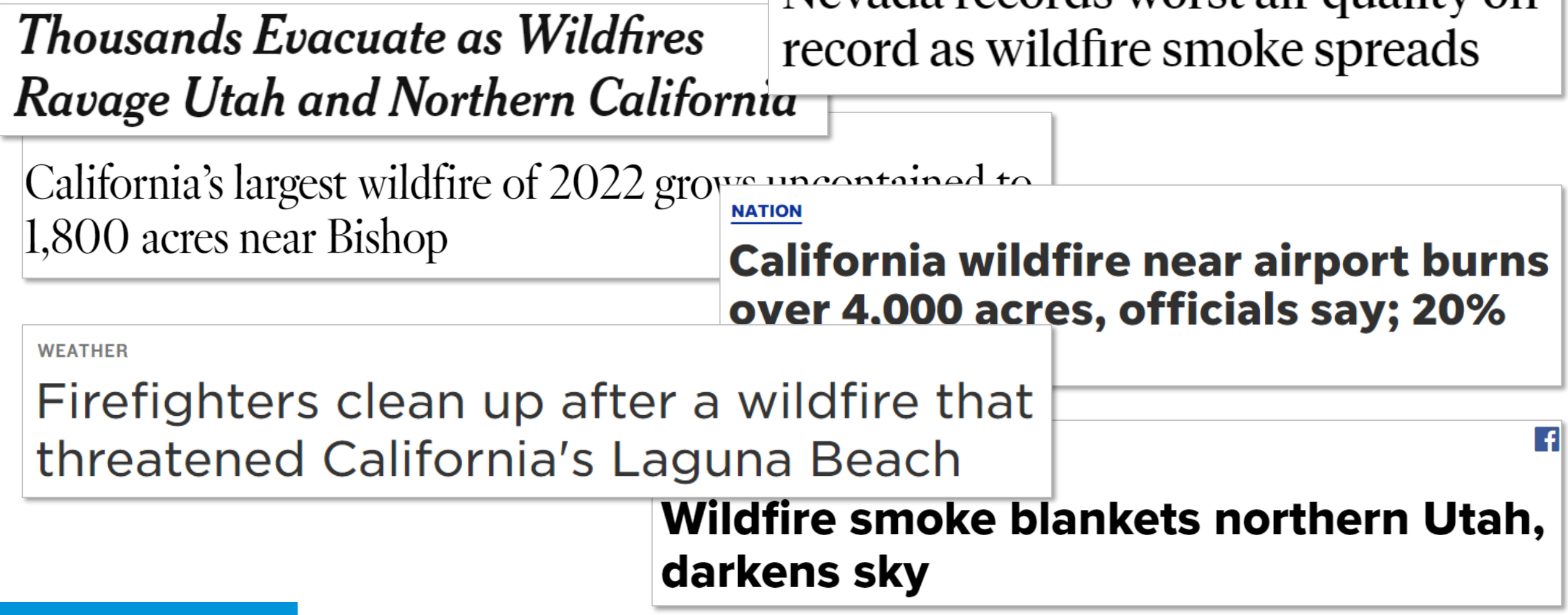
Exposure of populated areas



Directly exposed Indirectly exposed Not exposed

Source: USDA, USFS
https://wildfirerisk.org/explore/0/32/32003/

Regional Wildfires are Increasing



Wildfires and Air Quality

- Wildfires throughout the West create smoke/poor air quality that may significantly impact residents and visitors:
  - Impacts to human health, particularly for those with existing respiratory conditions
  - Increased costs/resources to address health impacts
  - Economic losses (reductions in viable working hours, decreased tourism to the region)

Wildfire and Air Quality: By the Numbers

Climate change is increasing the size, intensity, and duration of regional and local wildfires

9%

of populated areas are directly exposed to local wildfires

19%

of populated areas are indirectly exposed to local wildfires

26

days of unhealthy air quality in Clark County in 2020

Testing Your Knowledge

WHAT IS *ALL-IN*?

Regional Greenhouse Gas Emissions Inventory

To assess regional sources of greenhouse gas (GHG) emissions contributing to climate change.

+

Climate Vulnerability Assessment

To confirm climate hazards and the areas and systems most vulnerable to these hazards and identify solutions to enhance our community's overall resilience.

=

Community Sustainability & Climate Action Plan

To grow climate literacy in the community and work together to develop a plan of action to ensure a sustainable and resilient future for all.

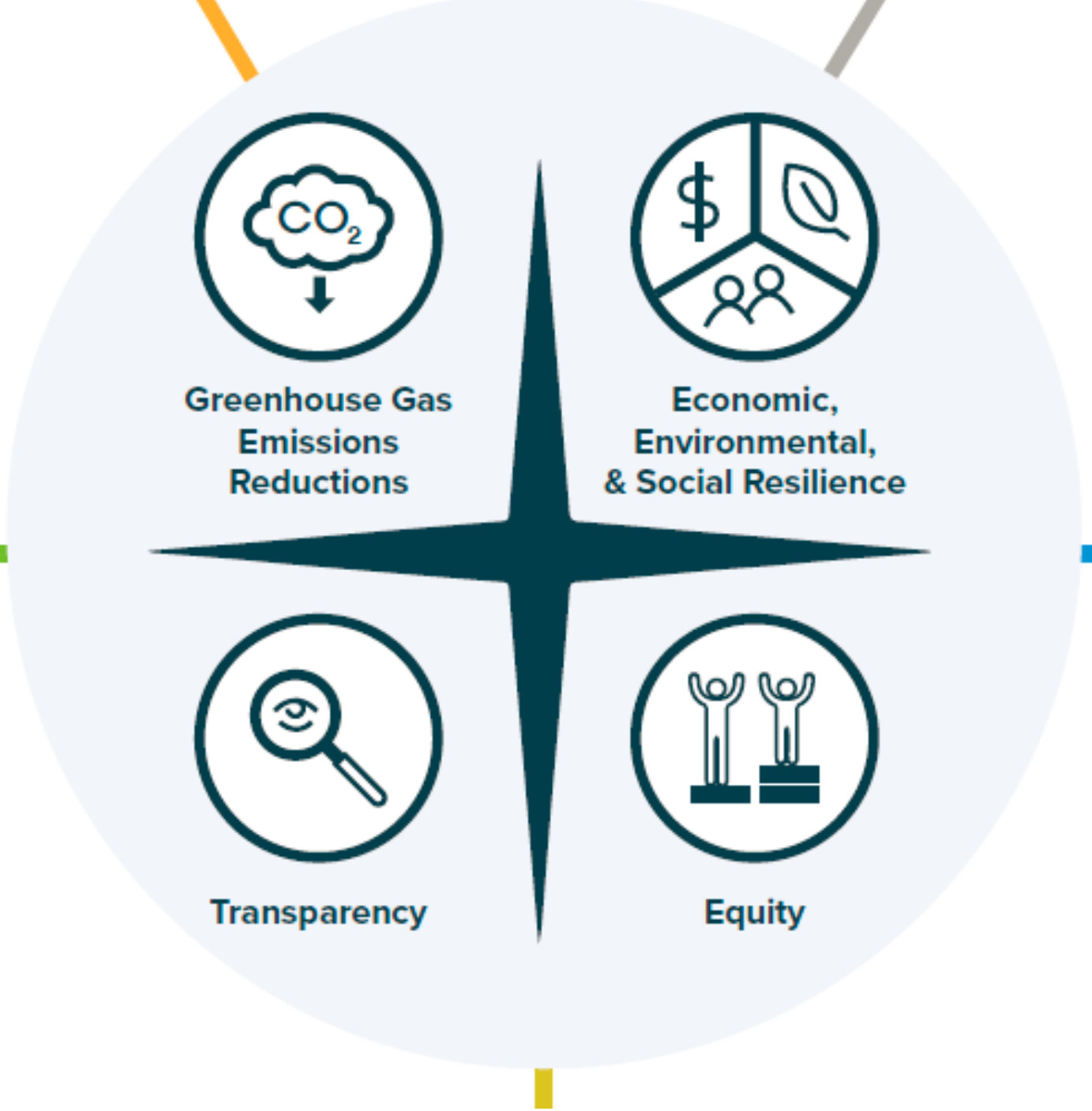
Definitions

A ***sustainable*** Clark County balances resource efficiency, social well-being, and environmental stewardship while equitably meeting the needs of a growing community and thriving economy.

A ***resilient*** Clark County supports residents, businesses, and visitors to be healthy, successful, and adaptable to changing climate conditions.

Guiding Principles

Foundation for evaluating goals and actions across the *All-In Initiative*



Six Key Areas

Clean & Reliable Energy

Connected & Equitable Mobility

Diverse & Circular Economy

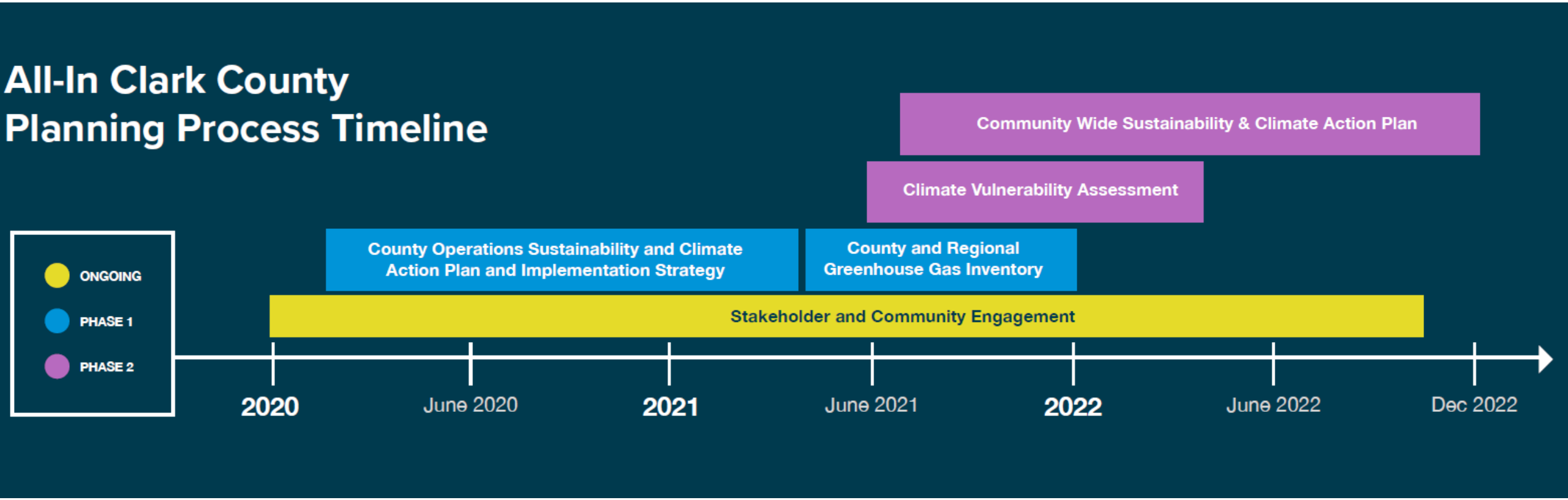
Sustainable Water Systems

Resilient & Healthy Community

Smart Buildings & Development

Learn more about each of these areas at allinclarkcounty.com

All-In Timeline

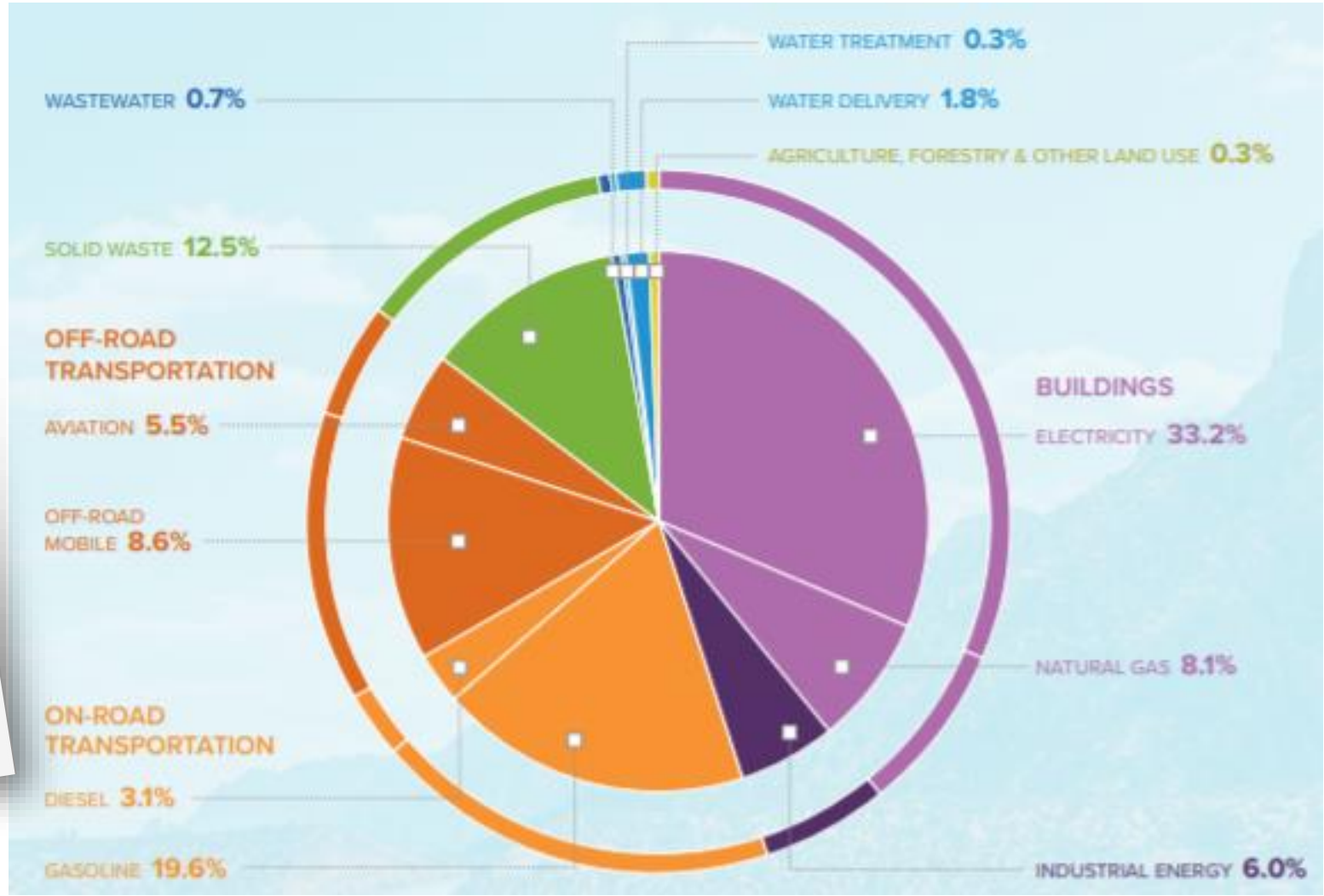


2 WAYS CLARK COUNTY CAN ADDRESS CLIMATE CHANGE

1 Reduce greenhouse gas emissions

2 Prepare for impacts of climate change

Greenhouse Gas Emissions Inventory - 2019



Clark County Emissions

50%

BUILDINGS & ENERGY
15,088,500 $MTCO_2e$

36%

TRANSPORTATION
10,879,800 $MTCO_2e^*$

12%

SOLID WASTE
3,675,790 $MTCO_2e$

2%

WATER & WASTEWATER
718,750 $MTCO_2e$

LEADING BY EXAMPLE

Leading By Example

Clark County passed regulations that require residential and commercial buildings to **minimize the use of dark materials and surfaces that absorb and trap heat**

Learn more about actions the County is taking at ops.allinclarkcounty.com

OUR VISION

Preparing our community for climate-driven emergencies through strengthened natural and social systems

What is a ‘Resilient and Healthy Community’?

- **Resources and communications** to ensure community members are prepared for emergencies
- **Protection against extreme weather** events, like flash flooding, and long-term stresses, like extreme heat
- **Management of health risks** linked to poor air quality, heat, and other climate impacts
- **Natural resources, like trees and open spaces**, that help adapt to changing climate conditions

Examples from Other Communities

- Improve heat resilience tools and resources
- Enhance emergency preparedness and response resources
- Enhance forests and open spaces
- Incentivize the use of heat resilience strategies around homes, businesses, and public spaces
- Develop equitable green space, using drought-resistant species, in all neighborhoods

PARTICIPATE IN THE PROCESS

Your Thoughts

Stay Involved!

- Share your thoughts on Public Input and share with friends!
- Visit *allinclarkcounty.com*
- Follow *Sustain Clark County* on Facebook, Twitter, and Instagram
- Stay tuned for the second Community Survey in April!

Upcoming Forums

Topic Area	Date & Time
Sustainable Water Systems	9am, Wednesday March 2nd
Clean & Reliable Energy	10am, Monday March 7th
Connected & Equitable Mobility	4pm, Wednesday March 16th
Smart Buildings & Development	7pm, Thursday March 24th
Diverse & Circular Economy	12pm, Monday March 28th

Thank You!