

Rebaje el calor

**Turning down the
heat in Sacramento**



ALI LEHMAN

Researcher, cartographer, and bike
lane super-fan

Calentamiento urbano

Urban Heat

Health impacts
Impactos sobre la salud

Why cities?
¿Por qué están calientes las ciudades?

Sacramento's reality
Las comunidades de Sacramento

Air quality
Contaminación del aire

What can we do?
Soluciones

SACRAMENTO METROPOLITAN



AIR QUALITY
MANAGEMENT DISTRICT



ASHLEY REYNOLDS

Facilitator



SHELLEY JIANG

Facilitator



TERI DUARTE

Interpreter



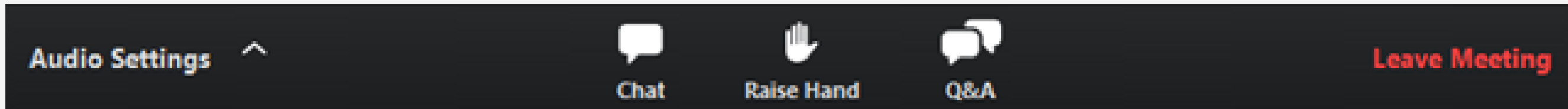
SACRAMENTO METROPOLITAN



AIR QUALITY
MANAGEMENT DISTRICT

Zoom

Volunteer | Hablar



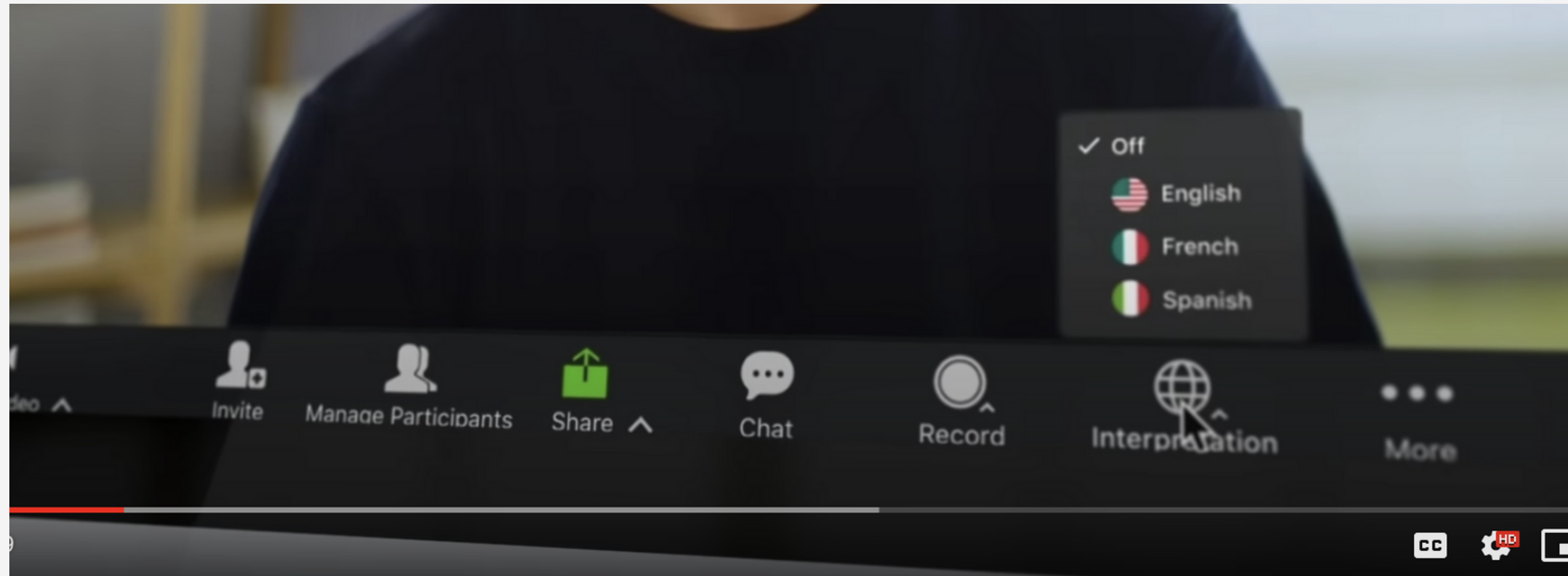
Problems | Problemas



Questions | Preguntas



Zoom



Spanish | Español



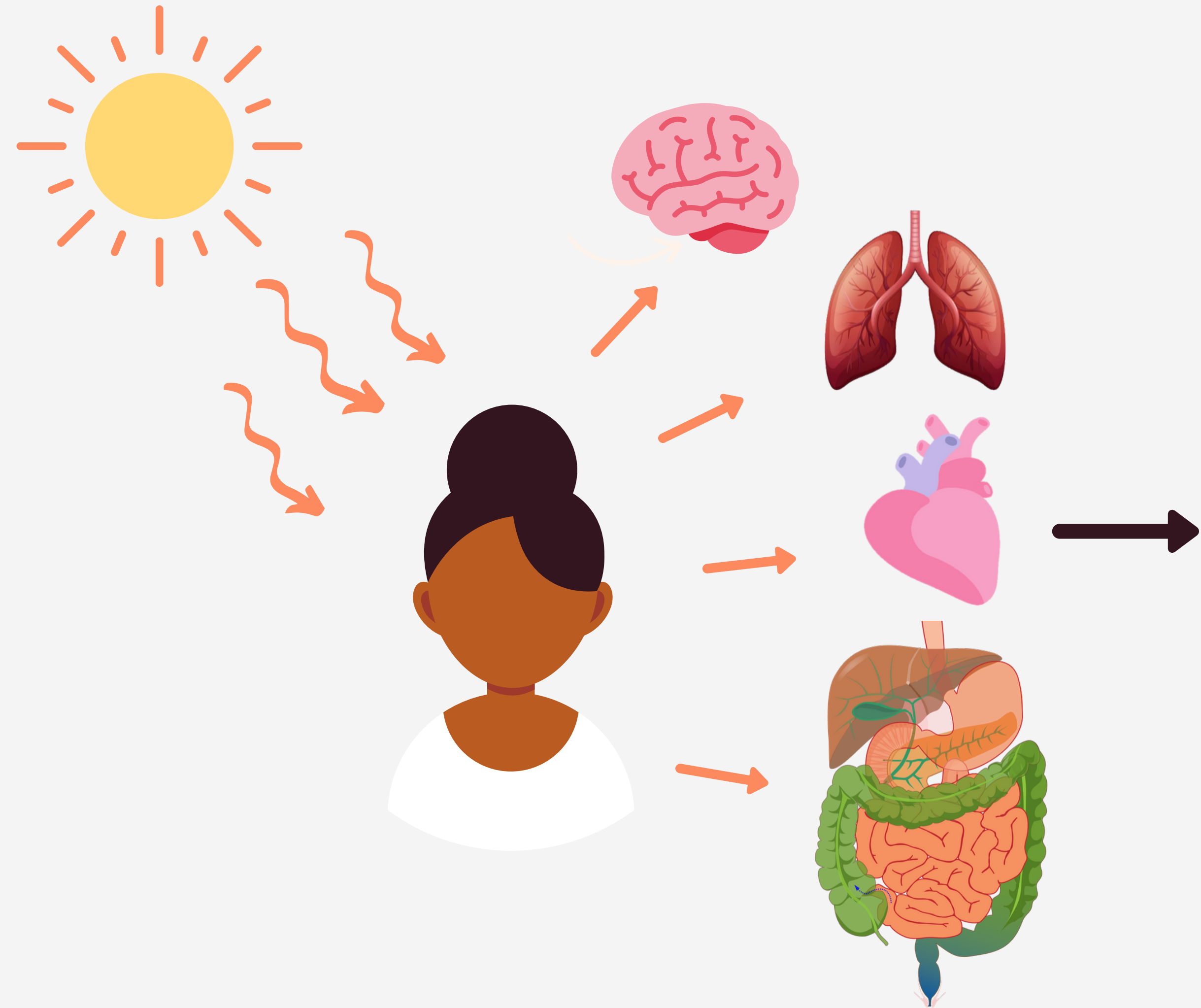
Introducción

Framing

POLL

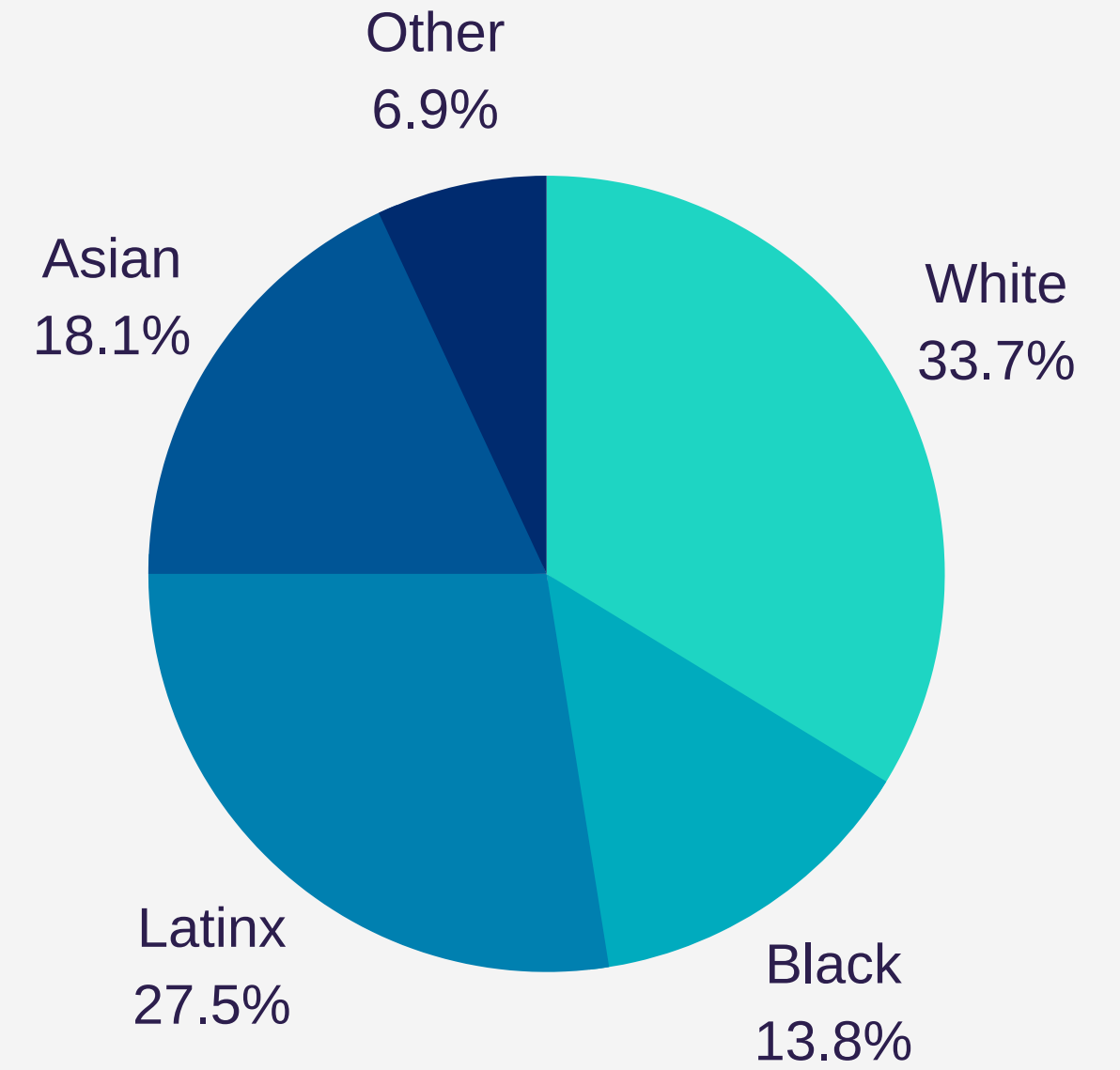
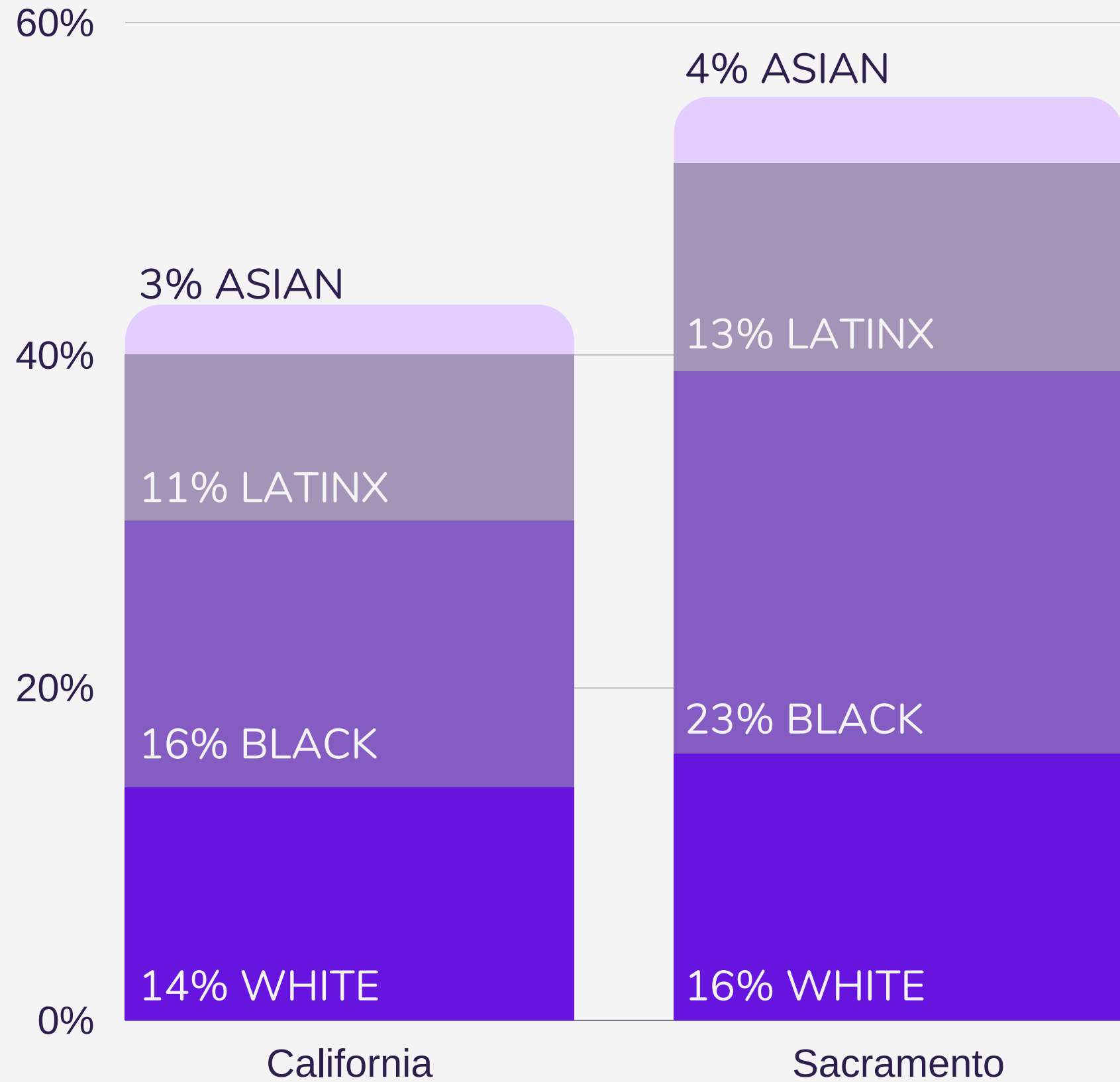
**How much does heat
impact your daily life?**

**¿Cuánto le afecta el calor
de día en día?**



Heat-related hospital visits by race

Visitas al hospital debidas al calor, por raza



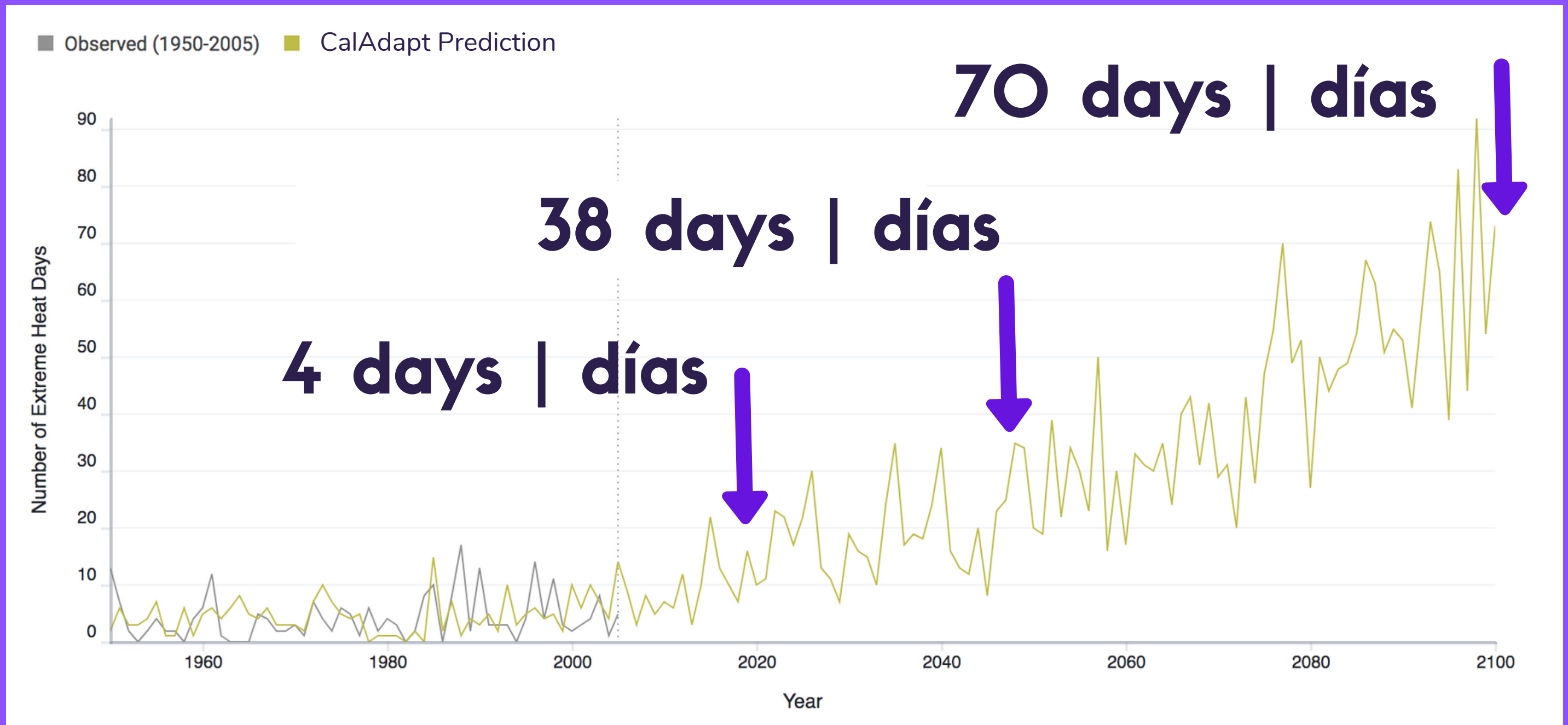
En general, proporciones de de raza en Sacramento
 General racial makeup of Sacramento

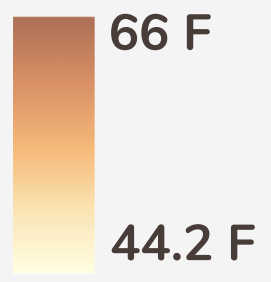


Chicago 1995

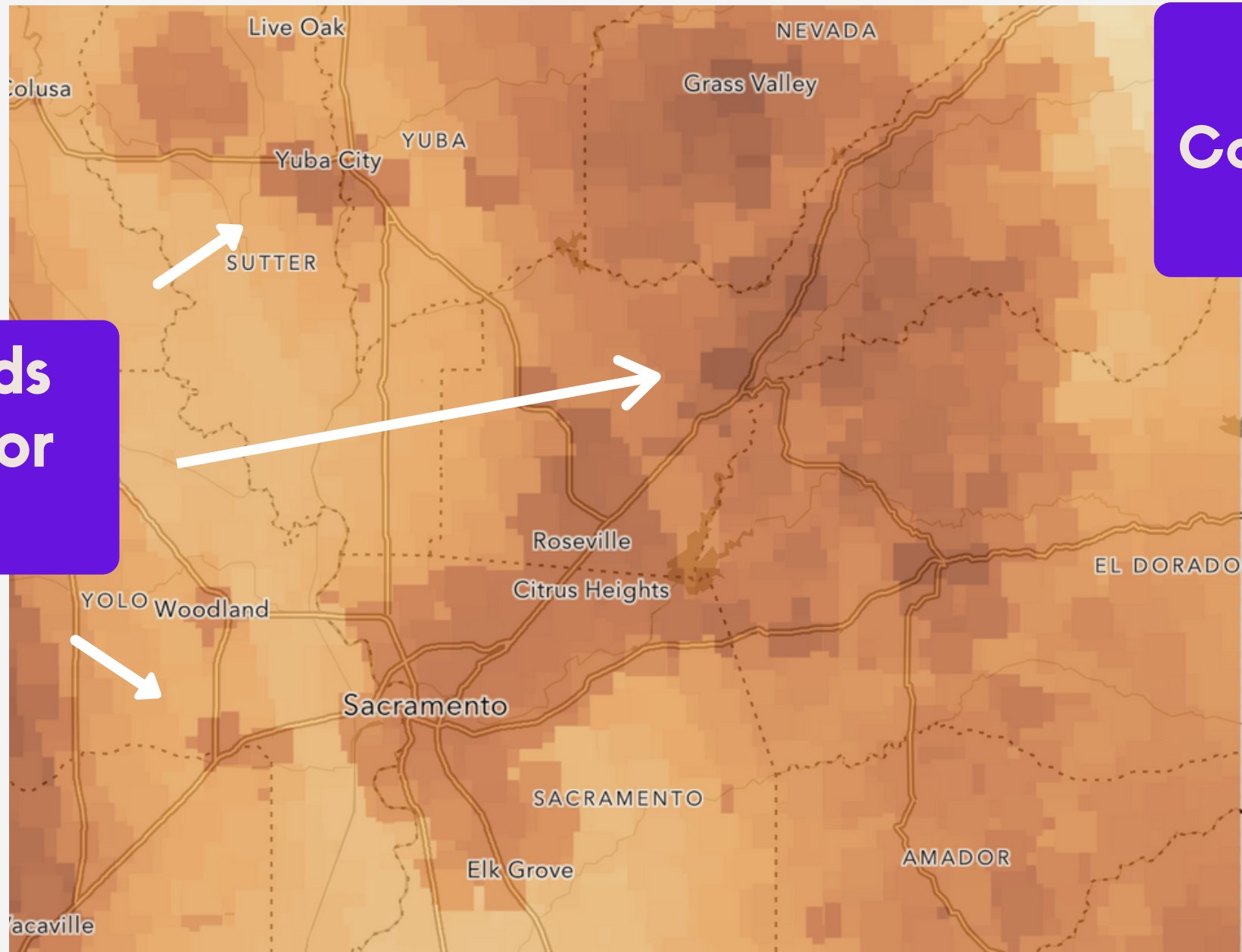
103.9 F

**Calor extremo
Extreme heat**





**Heat islands
Isla de calor
urbana**



**Urban heat pollution
Contaminación por el calentamiento
urbano**

**Urban heat
Calentamiento urbano**



Air Quality Agencies Organizaciones de Aire

Federal



US EPA

Regulates stationary, area, and mobile sources including interstate transportation



Trains



Ships



Planes

State



CARB

Regulates mobile and area sources of air pollution



Cars



Trucks



Buses

Local



Local Air Districts

Regulates stationary and area sources of air pollution



Factories



Refineries



Residential woodstoves

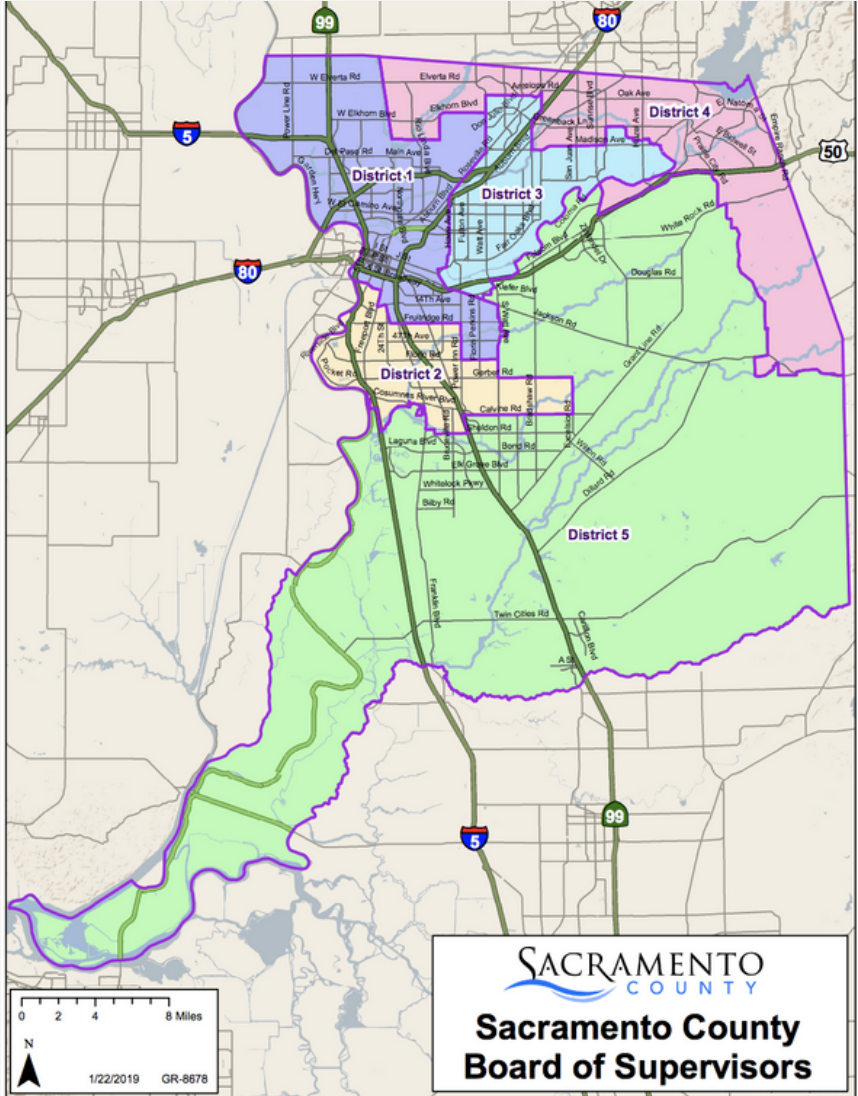
SACRAMENTO METROPOLITAN



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Land-use Decision Makers

Ciudad y Condado



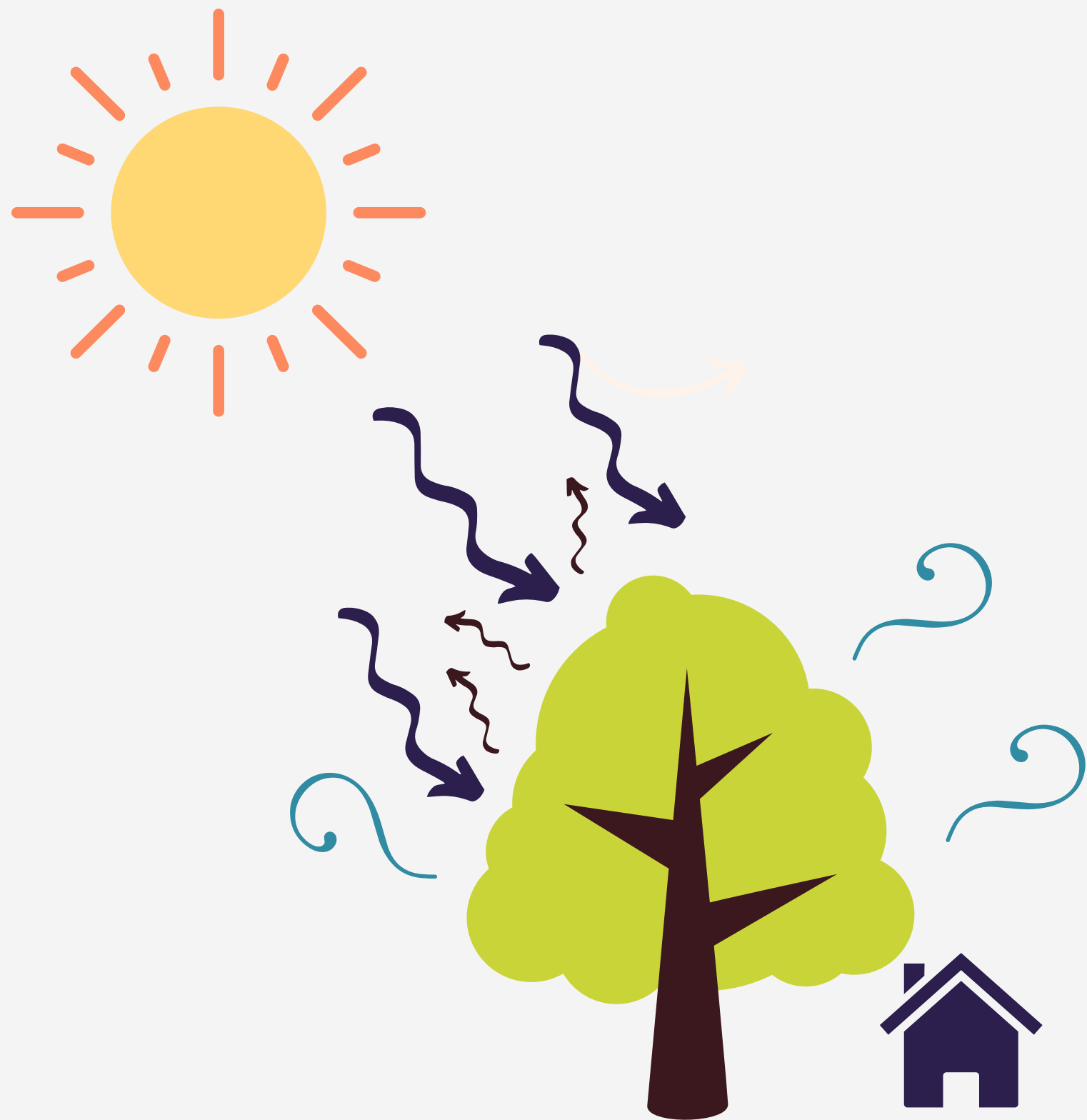
Transportation Agencies

Organizaciones de transporte



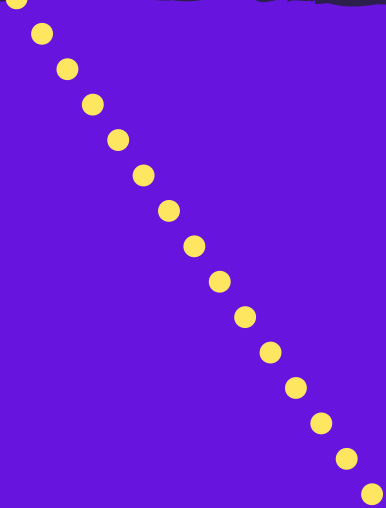
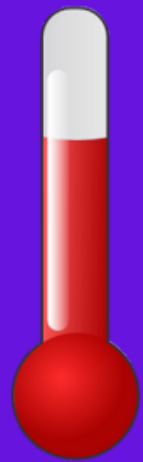
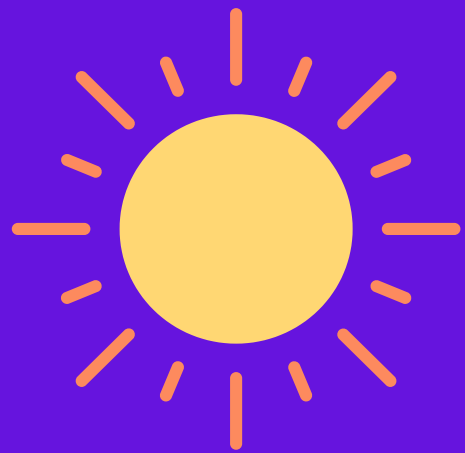
**Plan for West Arden
Arcade**

Trees and shrubs Árboles y plantas



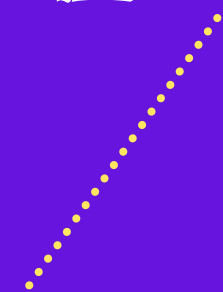
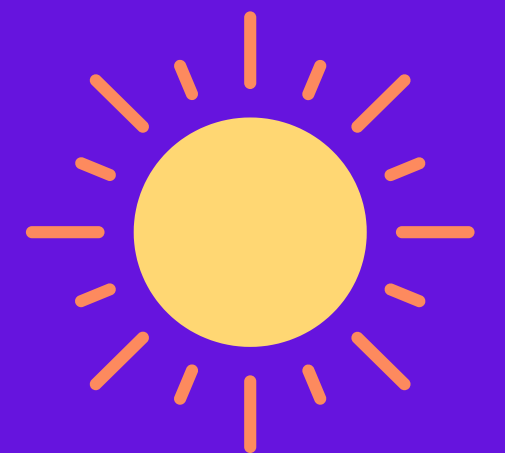
Buildings and roads Caminos y edificios





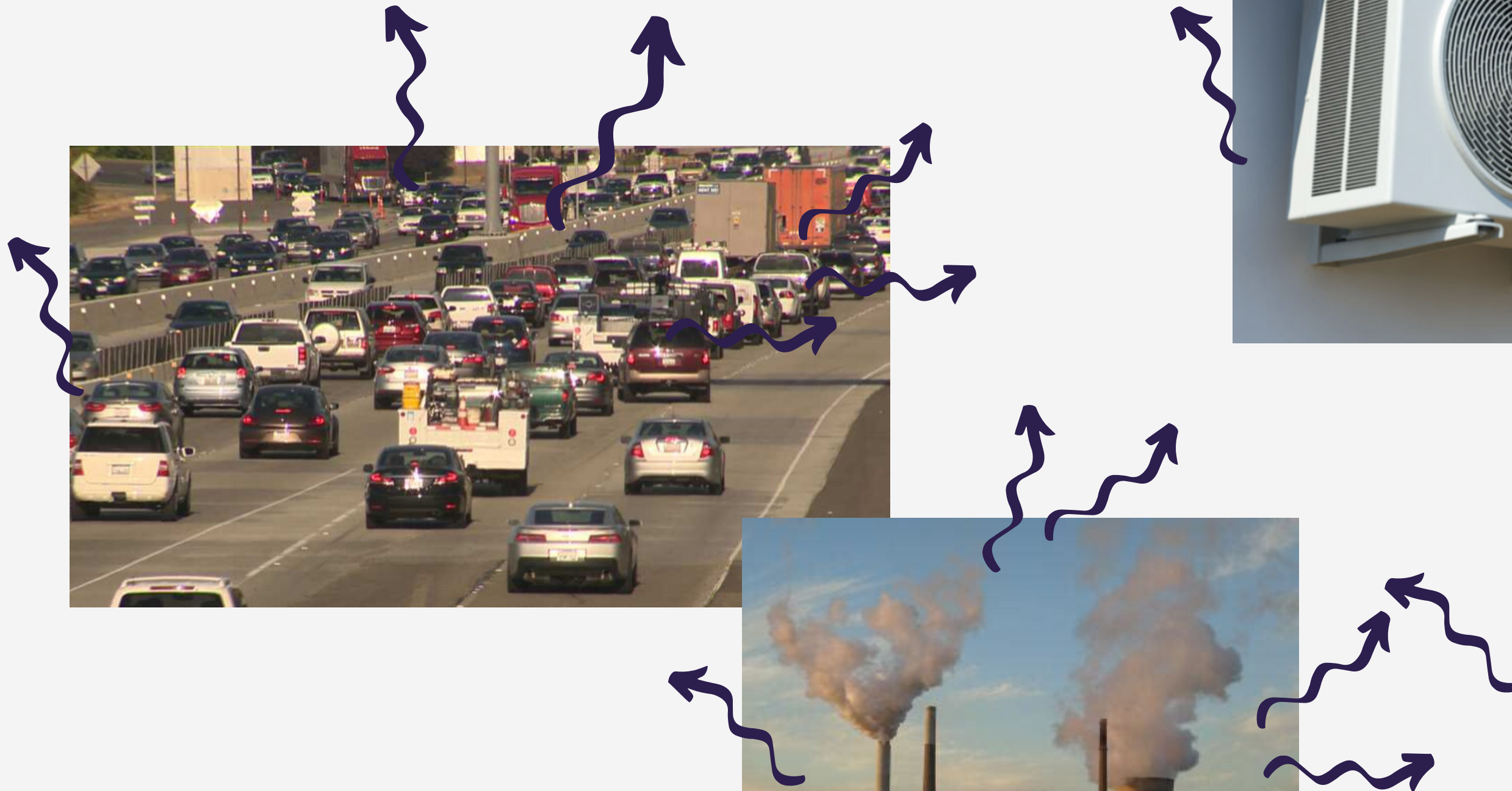
ALBEDO = 0.1

ALBEDO = 0.9



Waste Heat

Calor que sobra



Waste Heat Calor que sobra

SACRAMENTO METROPOLITAN
AIR QUALITY
MANAGEMENT DISTRICT



Urban heat solutions | Soluciones al calor urbano



Trees & vegetation



Building materials & roads (albedo)



Waste heat

Árboles y plantas

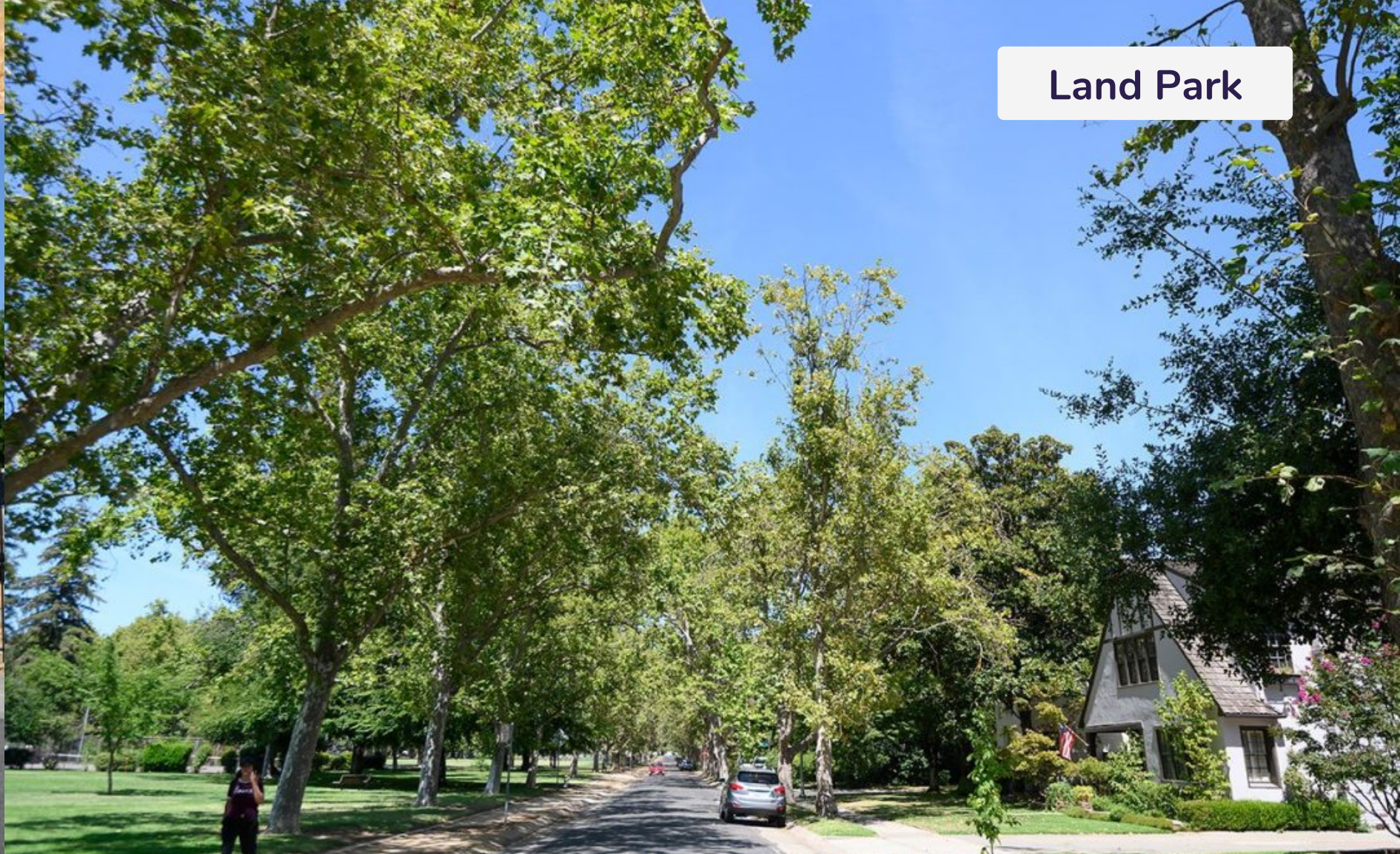


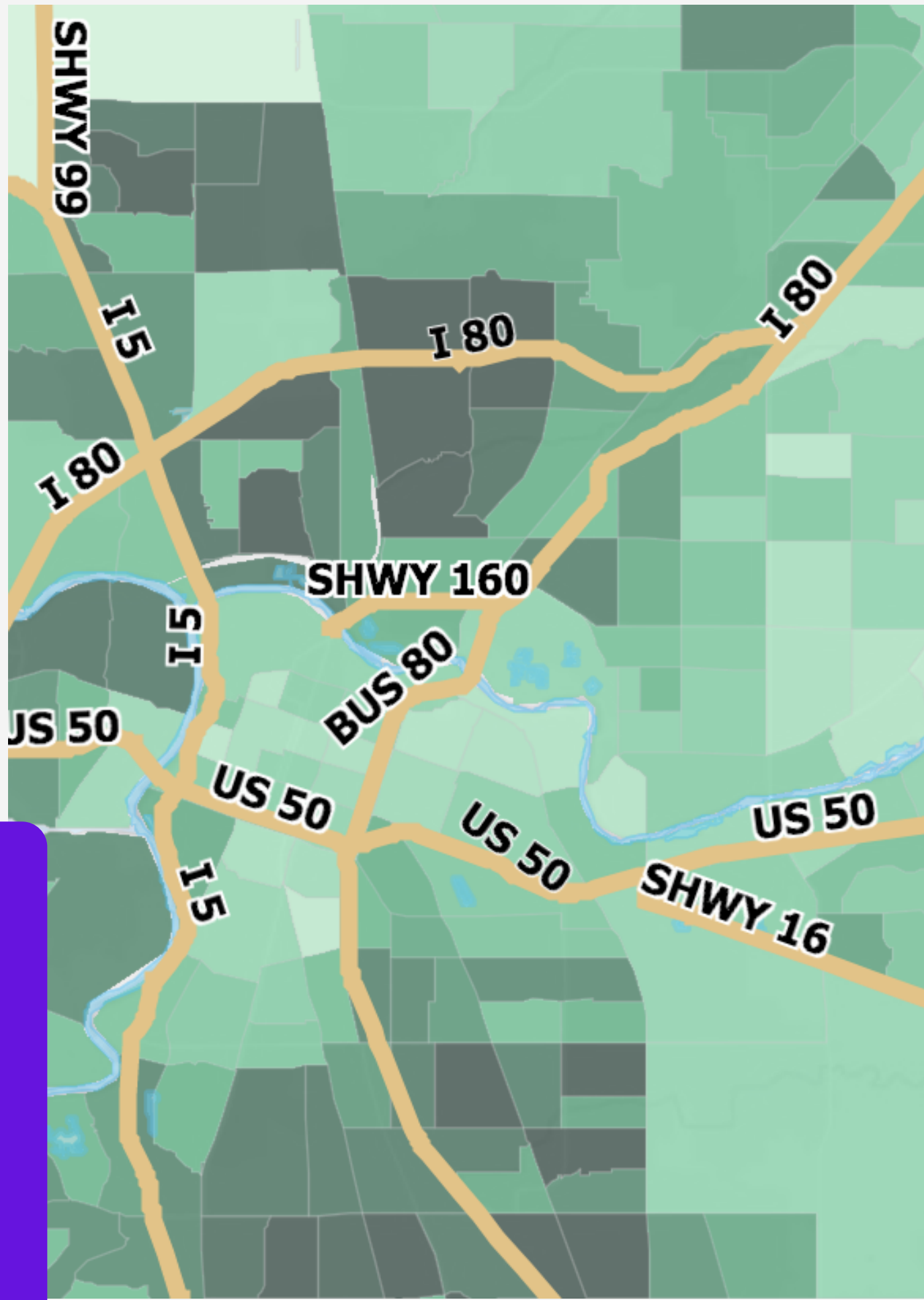
Caminos y edificios



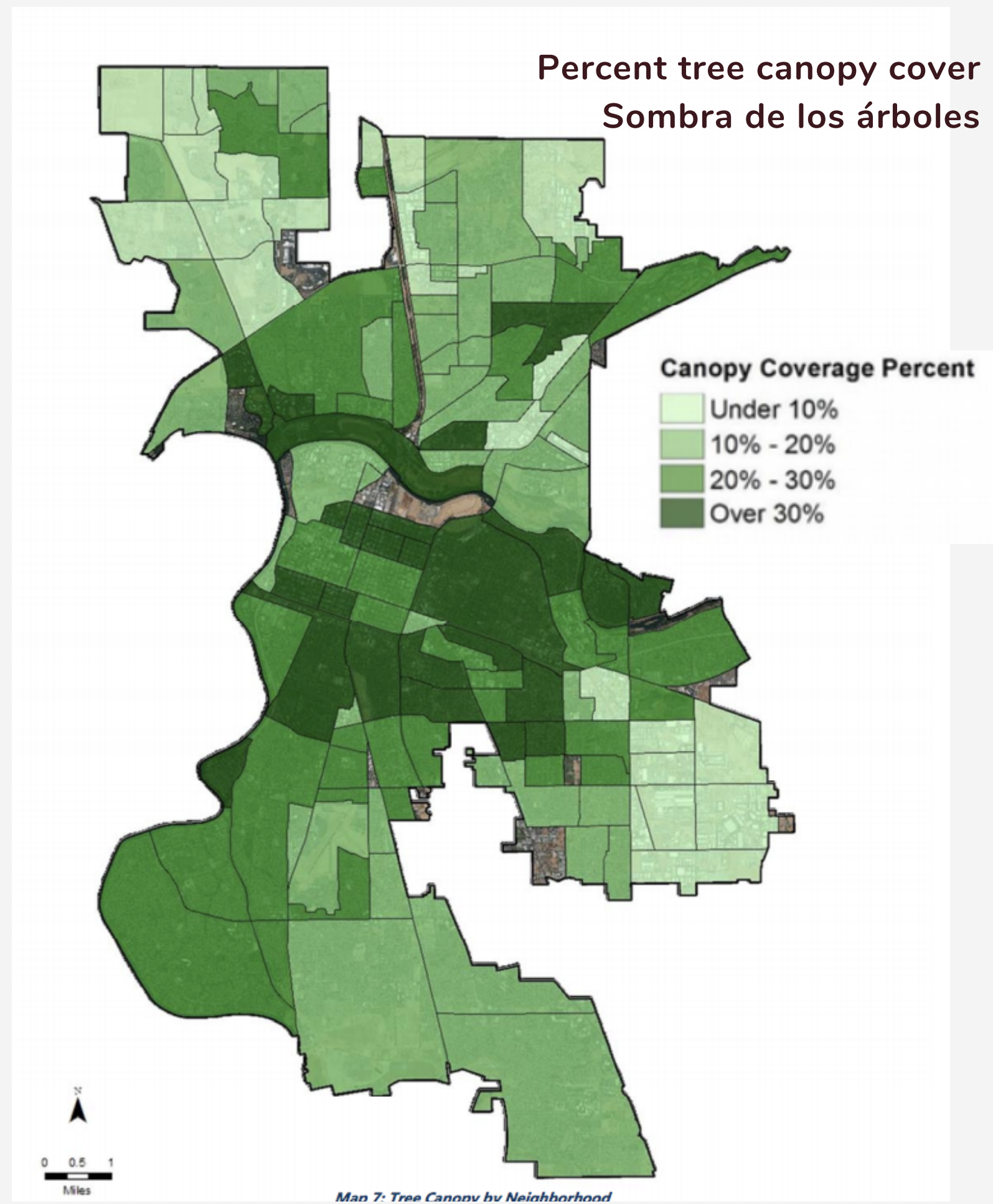
Calor que sobra



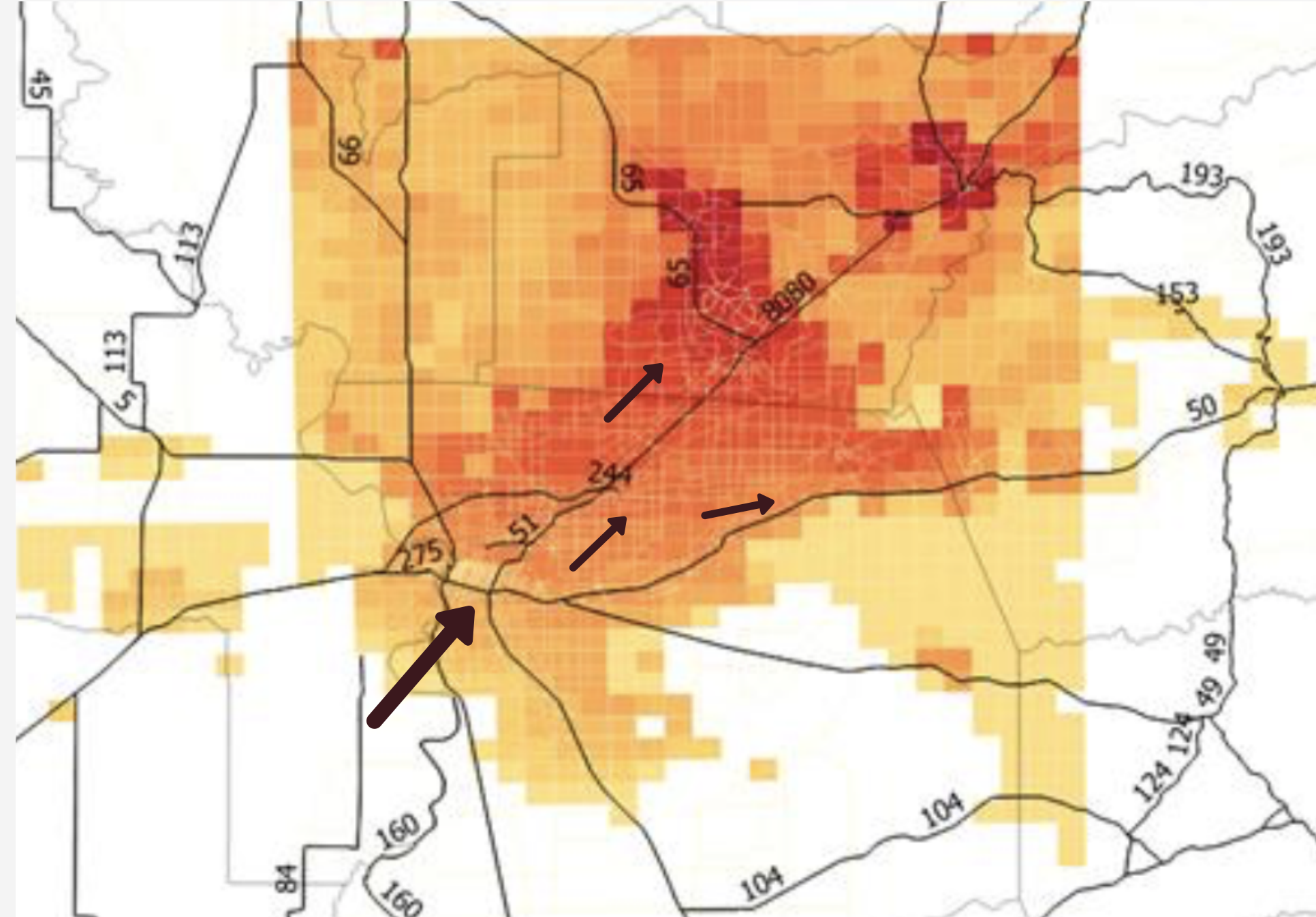


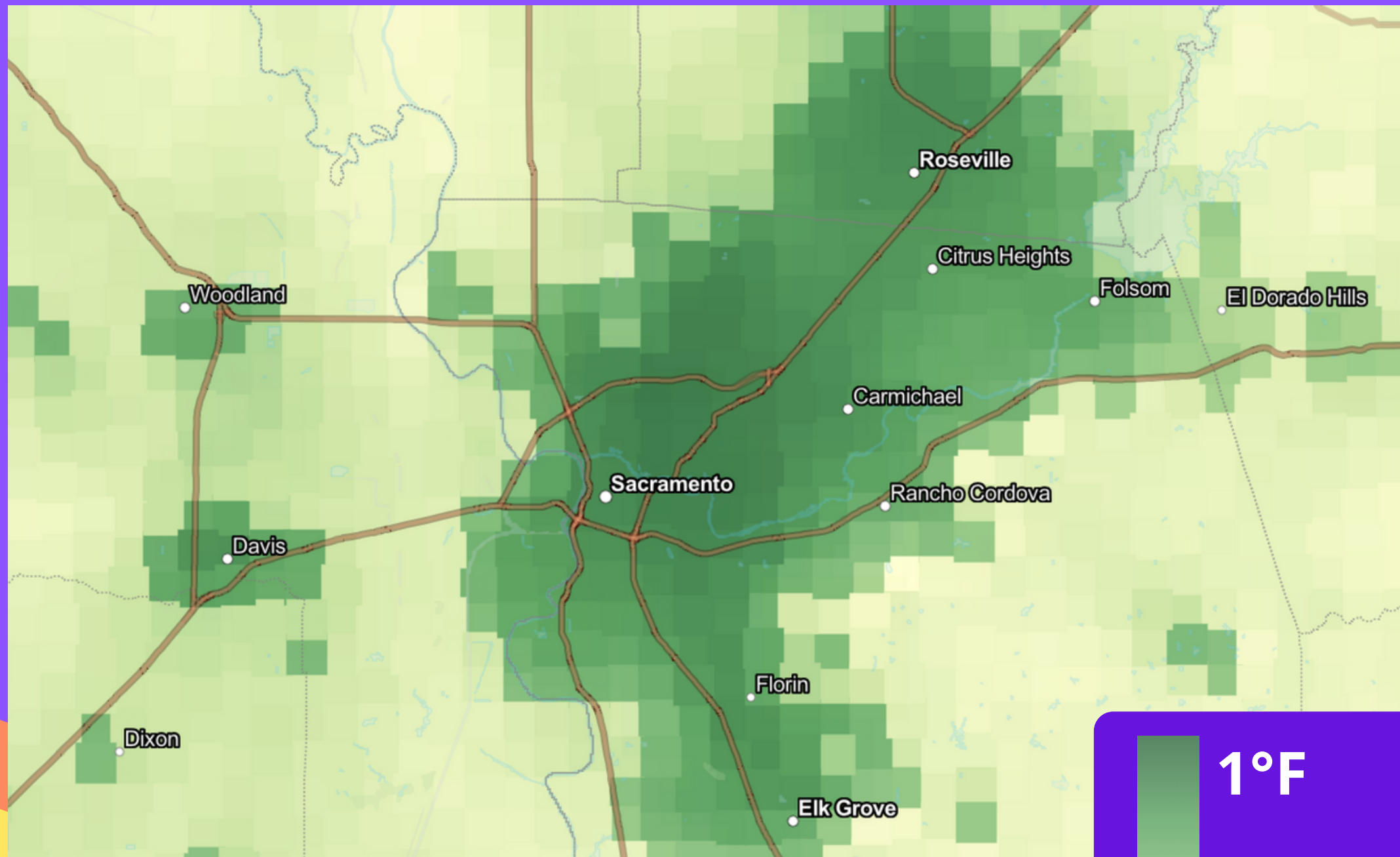


Communities with more people of color
 Comunidades donde viven más personas de color



Delta Breeze | Brisa de la bahía





Trees | Arboles



+ 2.5 to 3 million trees to the region (and maintain the ones we have)

+ 2.5 a 3 millones de árboles nuevos

Prescription #1
soluciones del calentamiento

Prescription #2

soluciones del calentamiento



Albedo



Dark roofs, pavements, and walls to cool, reflective technologies.

Cambiar nuestros materiales de construcción oscuros por unos que sean reflectantes y fresco



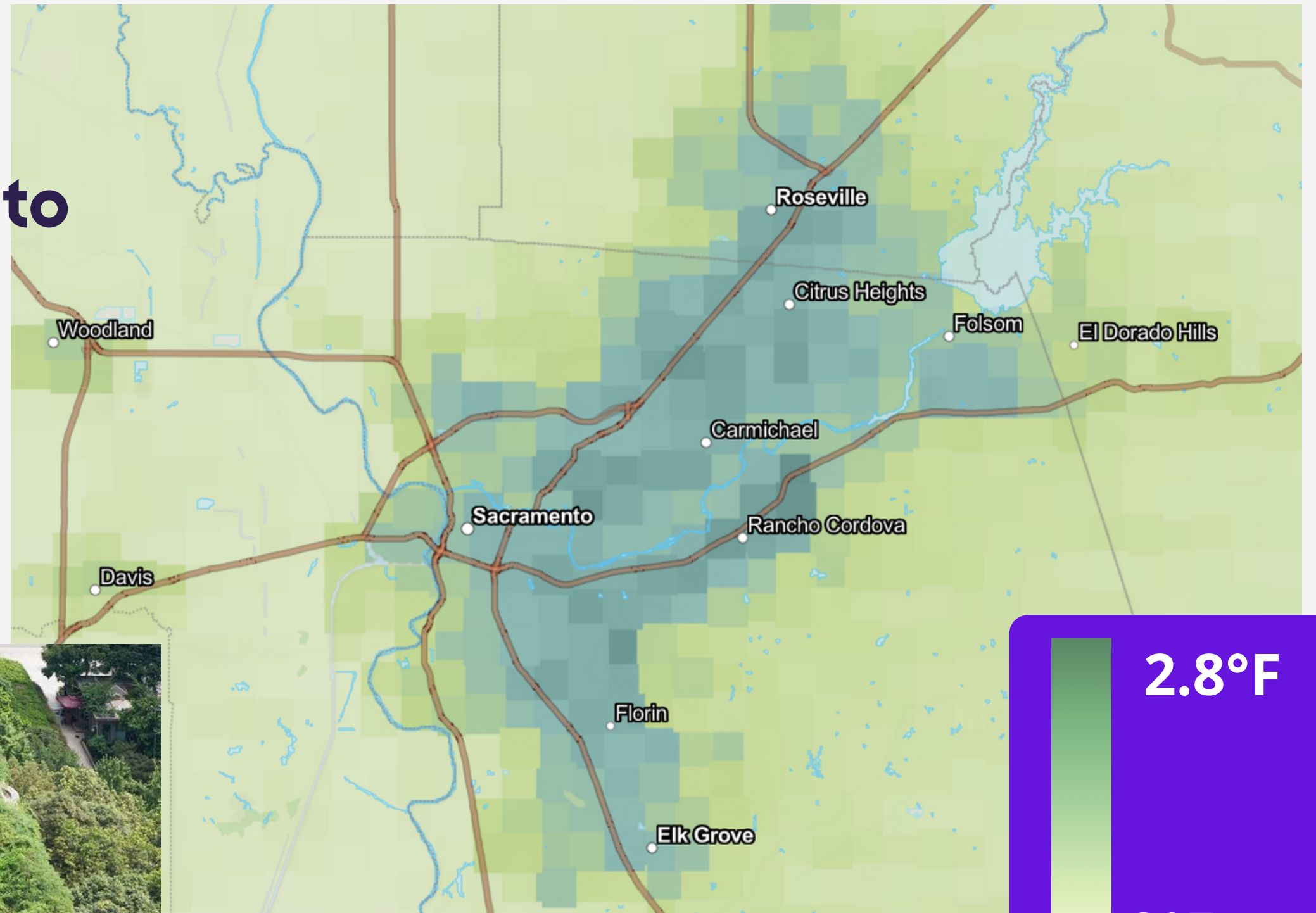
R=0.41	R=0.44	R=0.44	R=0.48	R=0.46	R=0.41
<i>black</i>	<i>blue</i>	<i>gray</i>	<i>terracotta</i>	<i>green</i>	<i>chocolate</i>
R=0.04	R=0.18	R=0.21	R=0.33	R=0.17	R=0.12

Prescription #3

soluciones del calentamiento



Combination | Combinación



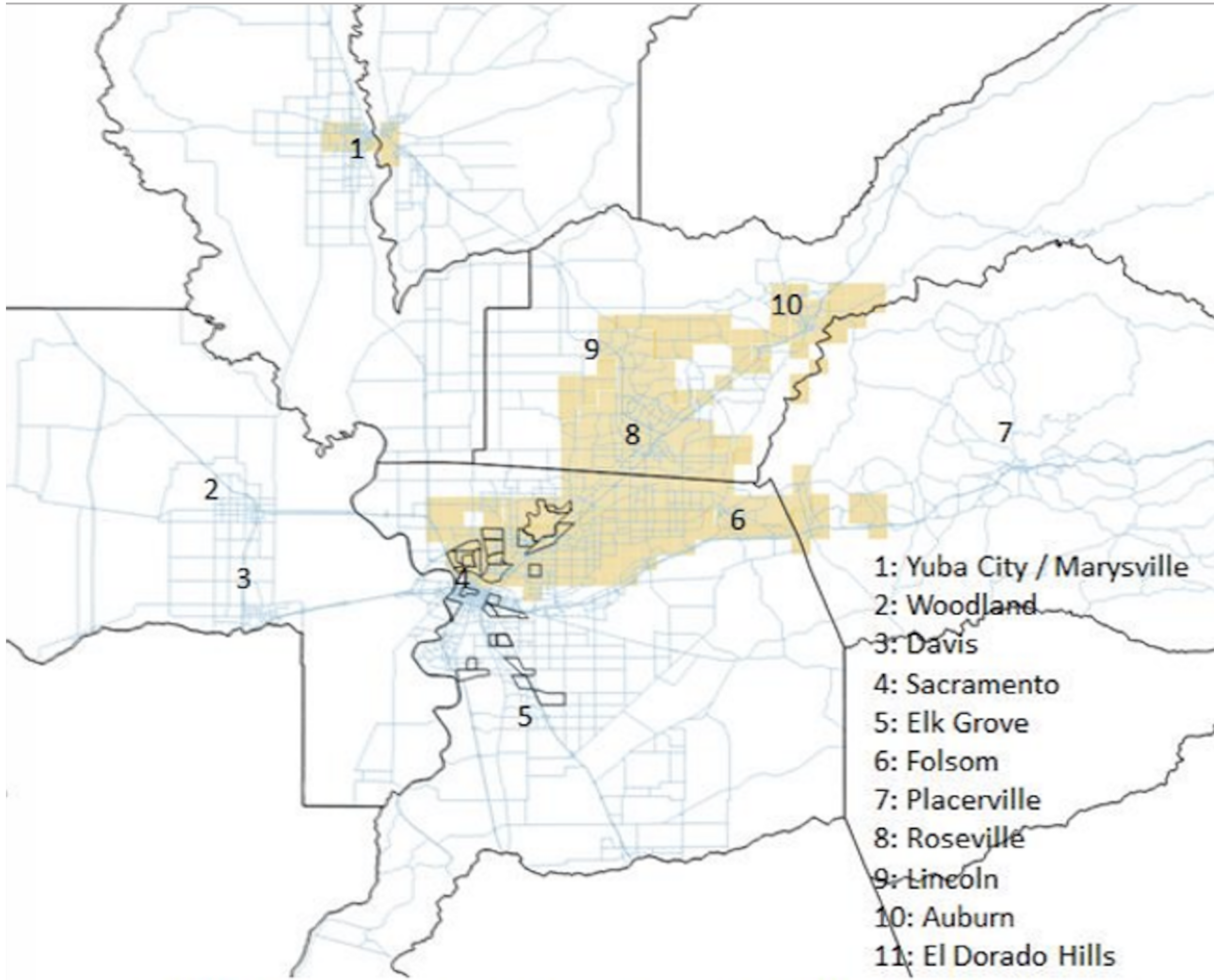
2.8°F

0°F



© Getty Images



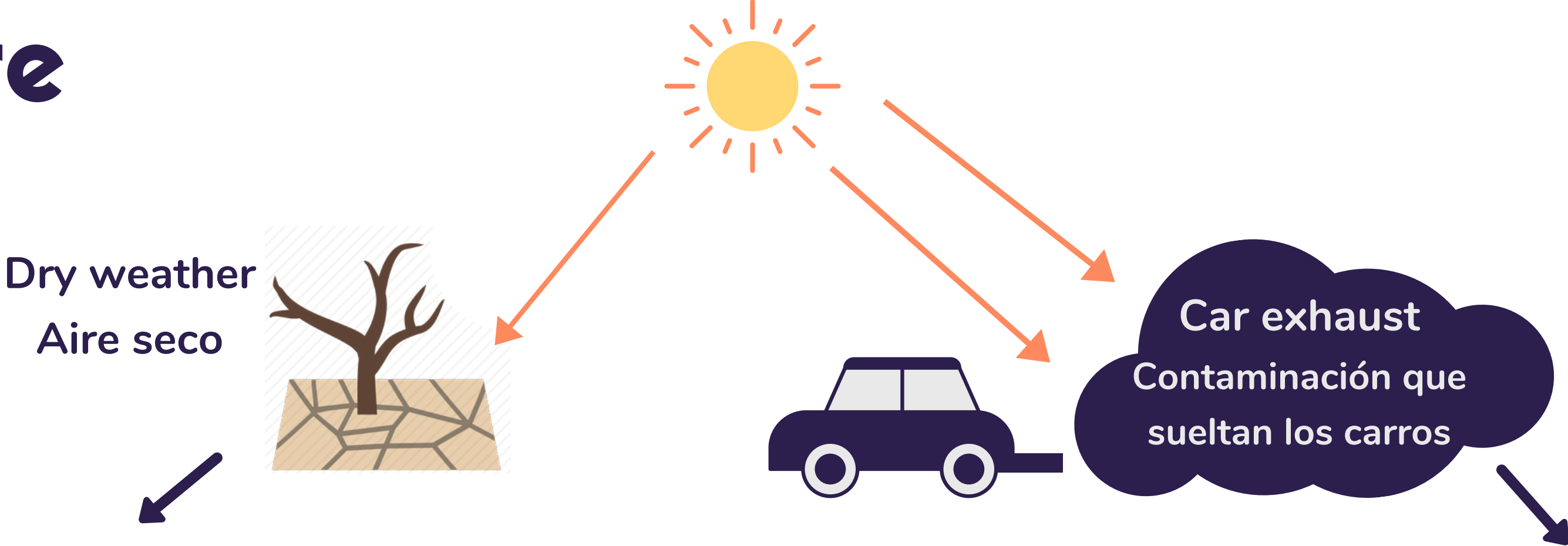


Priority areas

**Poner nuestra
atención en estas
comunidades**

Contaminación del aire

Air Pollution



SF 2019
Wildfires | Incendios forestales



LA 2019
Smog (ozone) and particulate matter
Ozono y las partículas

Land Park



 **Trees | Arboles** 



60% reducir la electricidad
60% less AC



Transporte público



© Mark Skaliny/TMC

Phoenix



Public Transportation

Phoenix

Before | Antes



Paris

After | Después



HEAT RELIEF

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Schools
Not Prisons

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61st St

th Ave

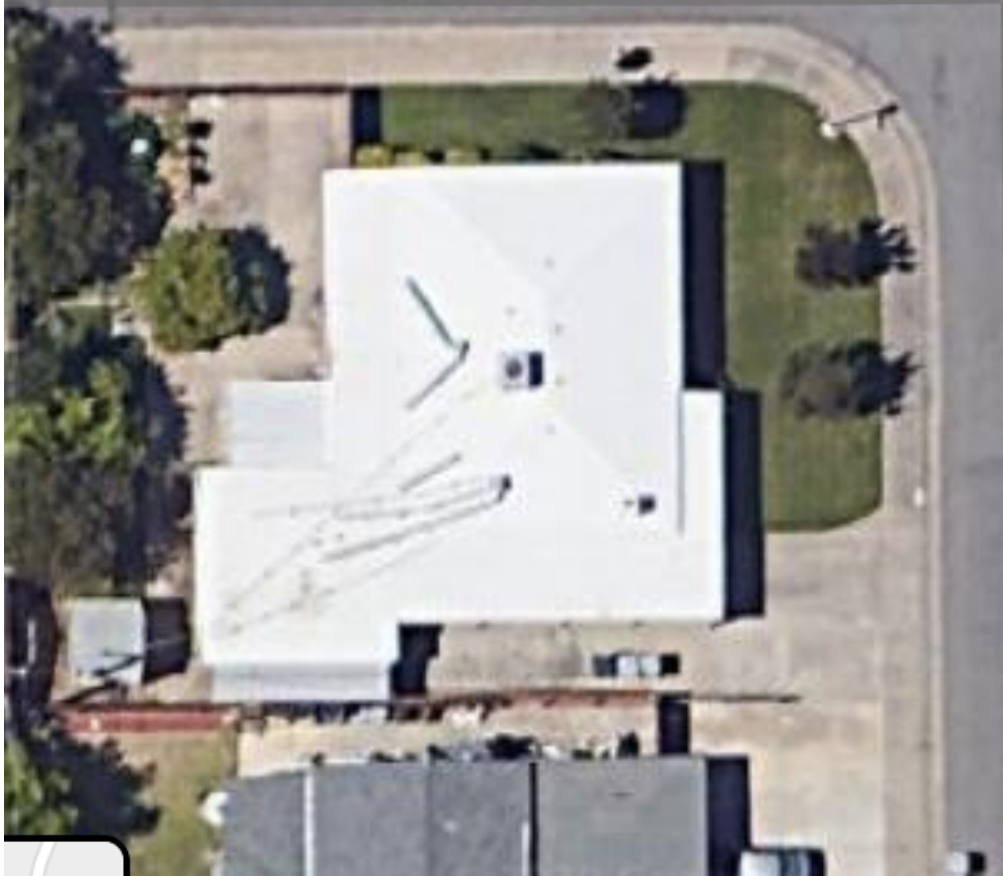
25th Ave



25th Ave

25th Ave

25th Ave



61st St

61st St



Culver City, CA



Sacramento



NYC



Seoul



London

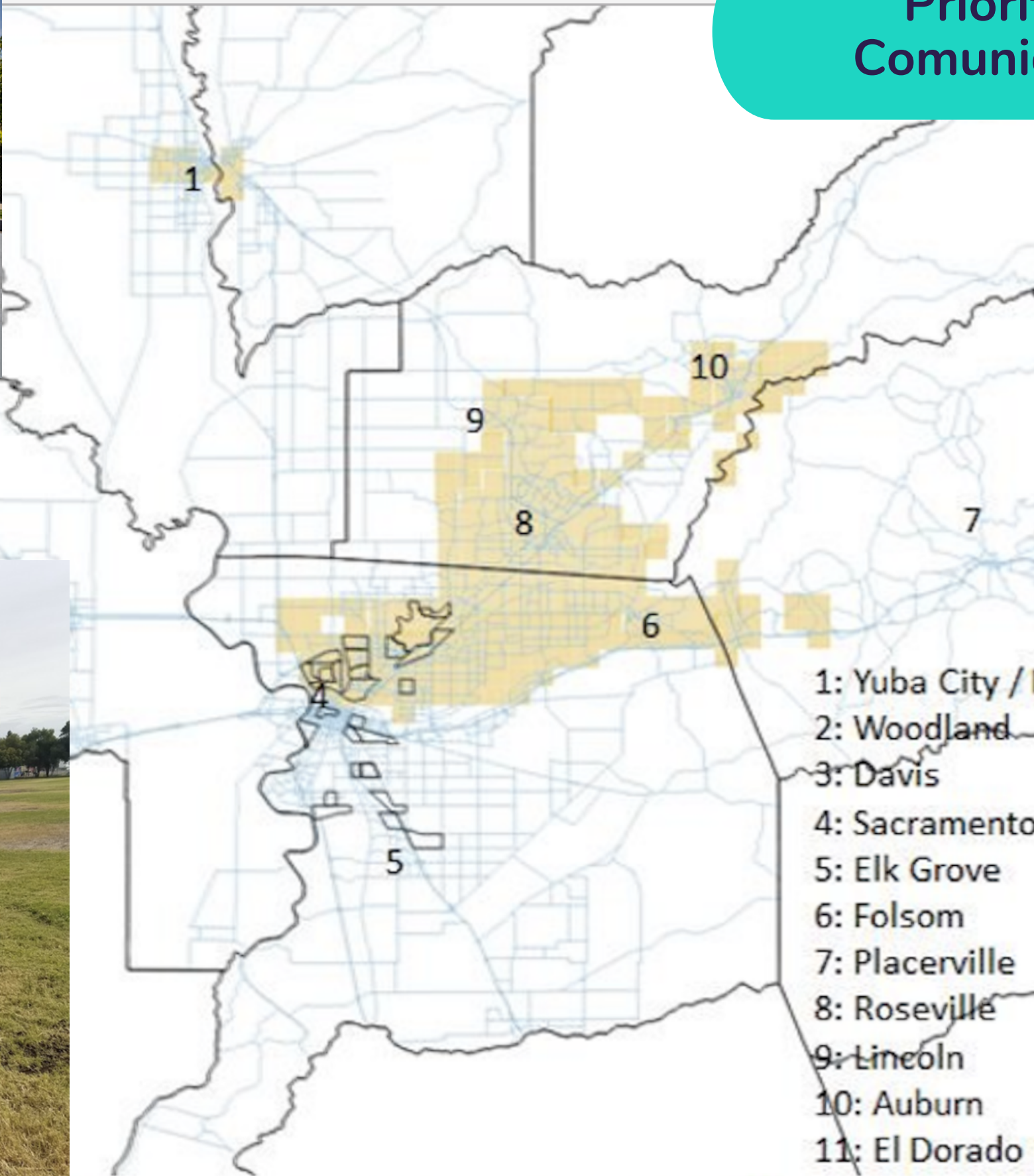


POLL

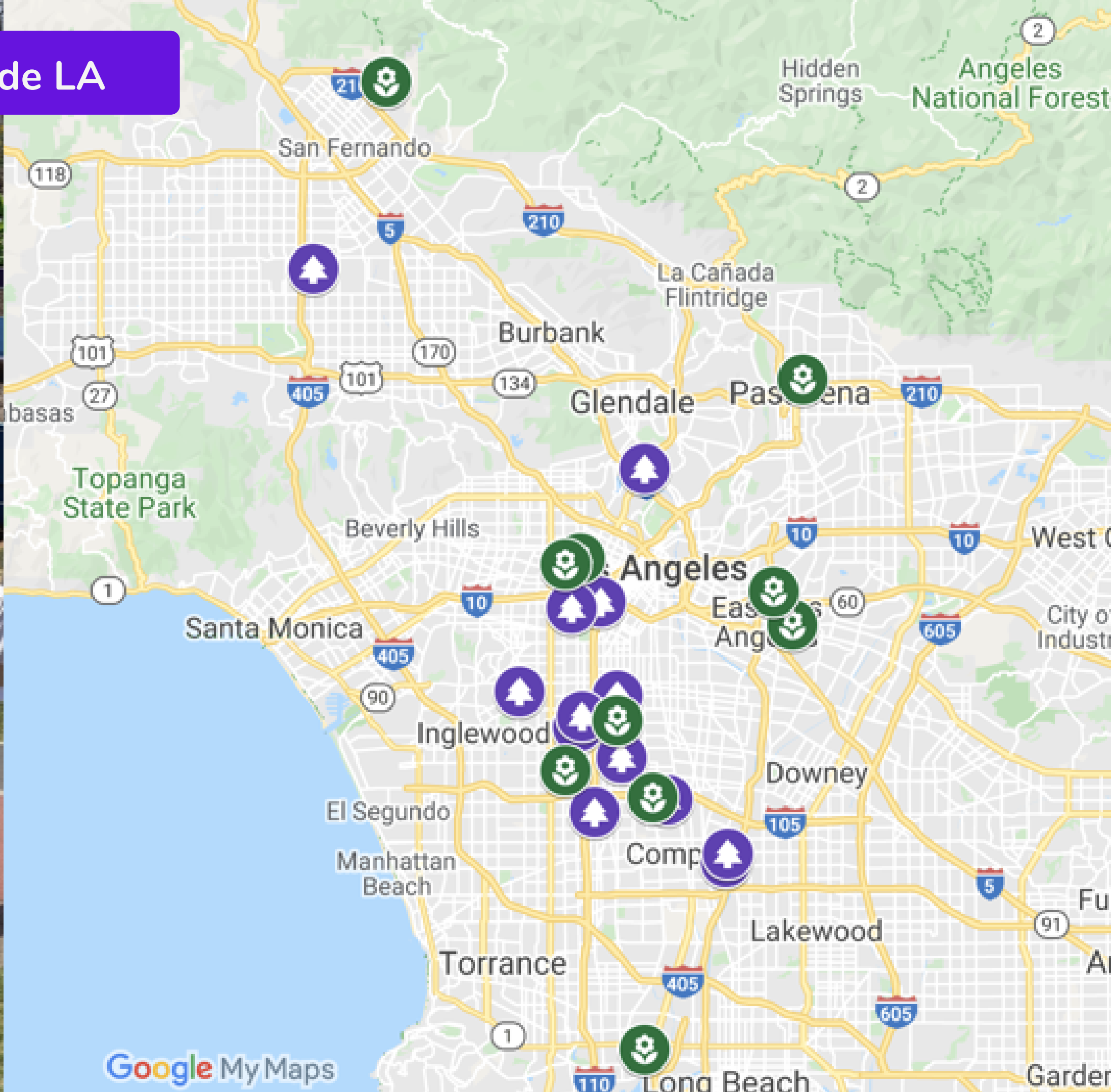
What cooling ideas would work best in your neighborhood? Why?

¿Qué ideas de enfriamiento funcionarían en su vecindario? ¿Por qué se siente así?

Priority Cooling Areas Comunidades de atención



LA Communities | Comunidades de LA



POLL

**Does urban heat align with your
work/interests?**

**¿Cómo se puede alinear o se
alinea el plan de acción del calor
con su trabajo actual?**

Questions | Preguntas

ALEHMAN@AIRQUALITY.ORG



Follow-up email | Correo electrónico junto

Cool ambassador

Survey

Website

Resources

Programa de
embajadores

Cuestionario

Sitio web

Otros materiales

POLL

Are you more likely to take action after watching this webinar?

Ya que Ud. ha participado en este seminario, ¿diría que está más dispuesto a tomar acción acerca del calentamiento urbano?