

Bluegrass Sustainability Summit

SUSTAIN *Louisville*

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Office of Advanced Planning and Sustainability

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OFFICE OF
ADVANCED PLANNING
AND SUSTAINABILITY

A Division of Develop Louisville

Louisville Metro Government

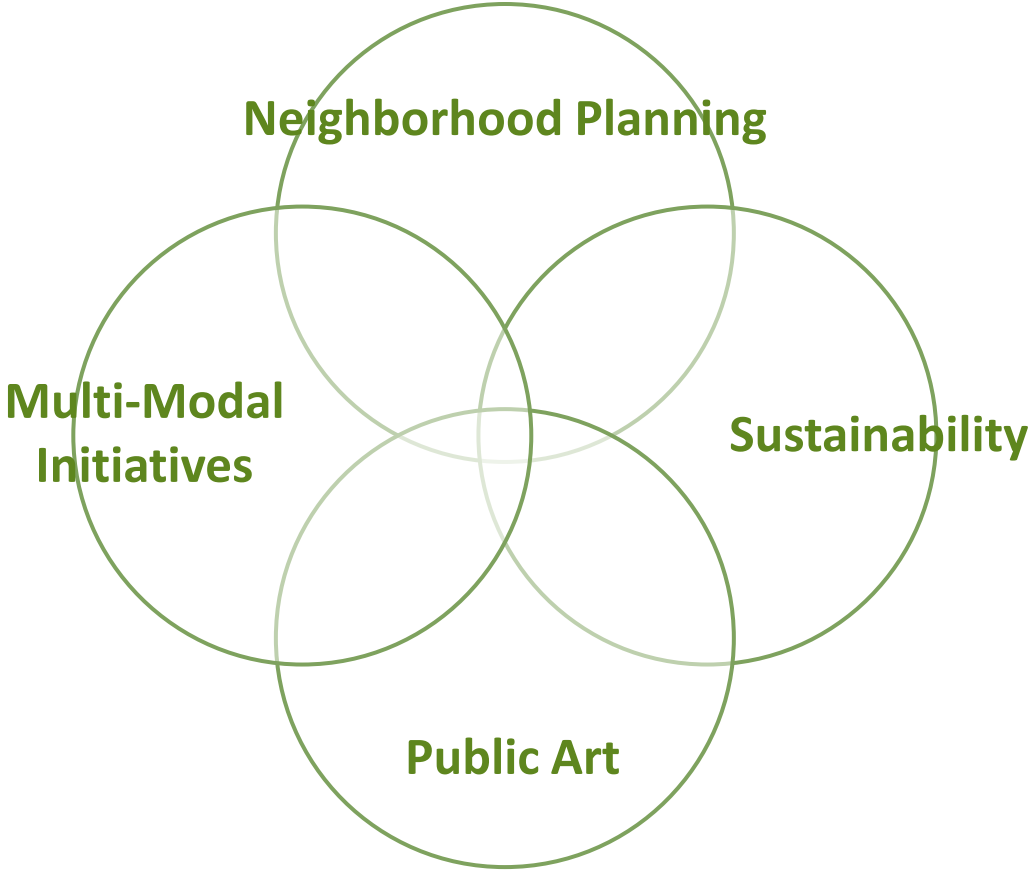
City Values:
Compassion, Health, and Life-Long Learning



Office of Advanced Planning and Sustainability



Envisions, designs and implements long-range planning solutions to create a vibrant, sustainable community where people want to live, work and innovate.





Louisville Metro Sustainability Plans



Sustain

LOUISVILLE



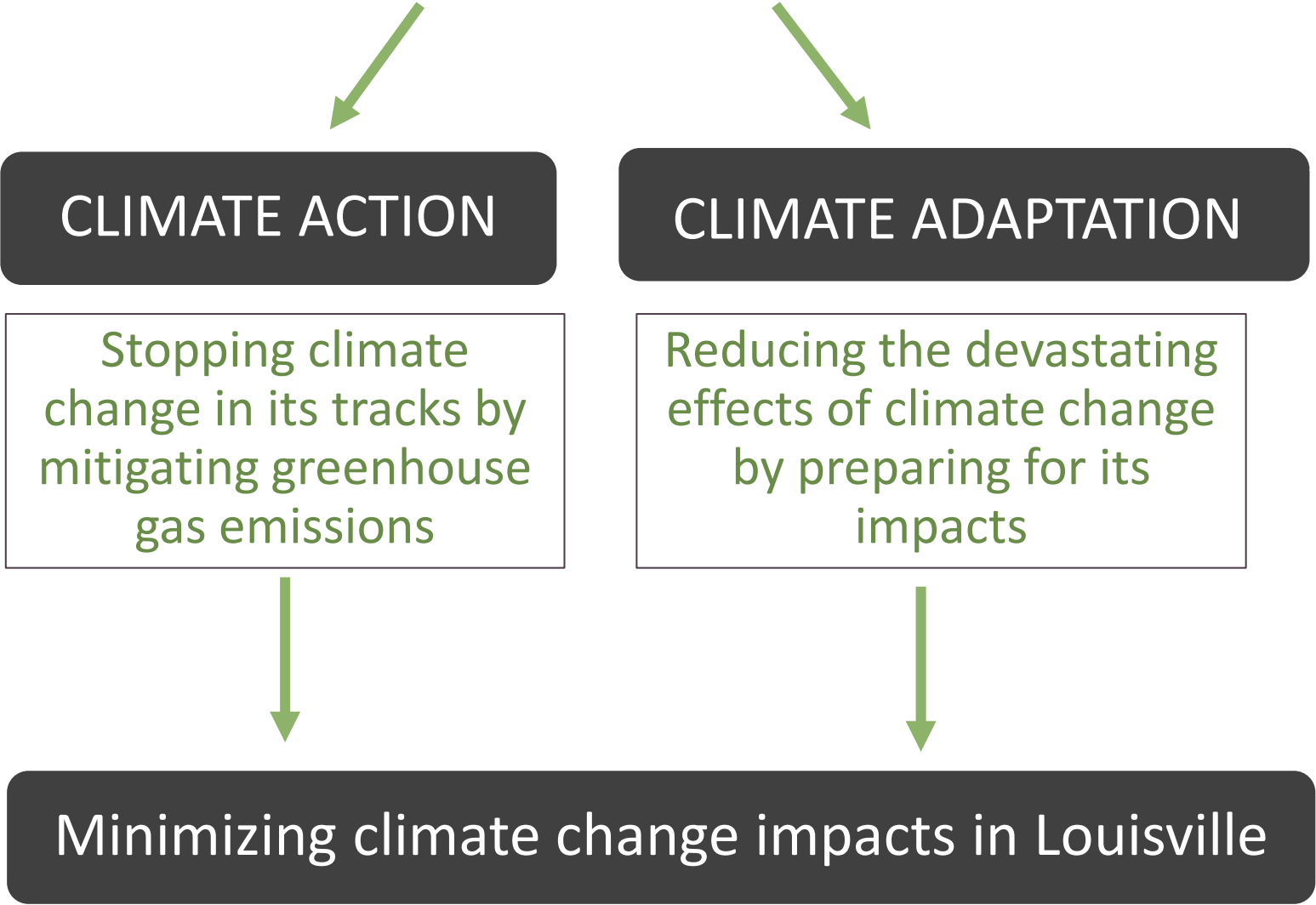
LOUISVILLE METRO SUSTAINABILITY PLAN
CREATED MARCH 2013



Objectives

1. Protect **the environment** and reduce Louisville's **carbon footprint**.
2. Ensure the **health, wellness and prosperity** of all citizens.
3. Create a **culture of sustainability**.

Global Covenant of Mayors



Mayor Greg Fischer signed the Global Covenant of Mayors in April 2016.

Louisville's GHG Emissions Reduction Plan



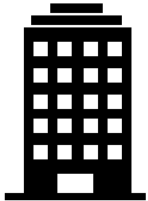
Residential Buildings

- Existing building retrofits
- Solar PV Systems on 50% of homes



Energy Industry

- **70% reduction in energy generation intensity factor**
- LEDs in lighting fixtures and streetlights



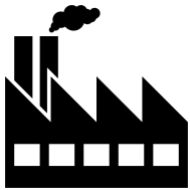
Commercial Buildings

- Renewable natural gas in 20% of buildings
- Solar PV Systems on 25% of buildings



Transportation

- Fuel switching
- Active transportation and ride-sharing



Manufacturing Industries and Construction

- Deep energy retrofits
- Fuel switch to natural gas



Waste

- Organic waste diversion programs
- Methane recovery at landfills and wastewater treatment plants

Climate Change Hazards in our Region



Extreme Heat



Severe Storms



Flooding



Air Quality



Preparing Louisville for Climate Change Impacts

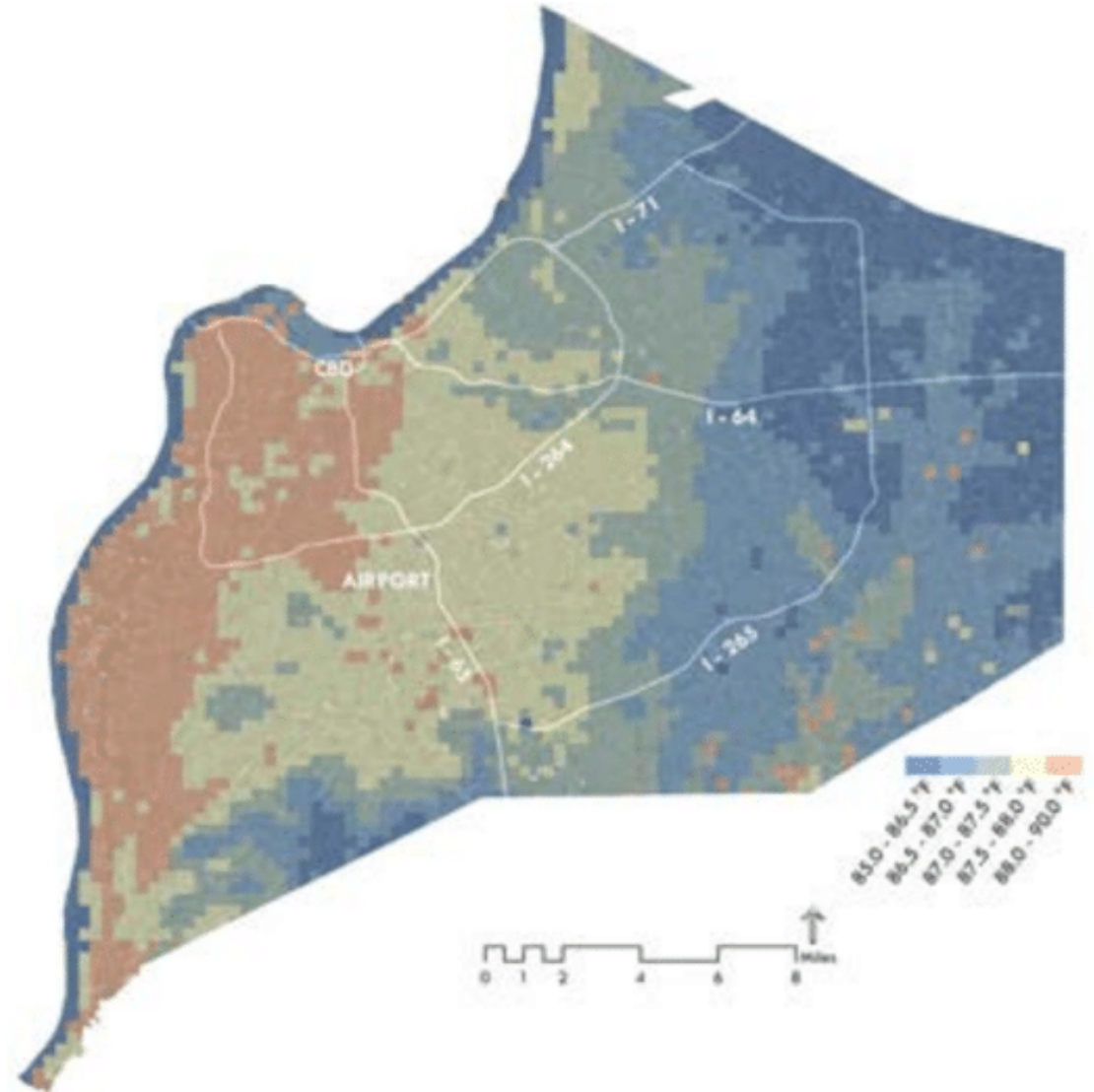
- Heat-related fatalities
- Increased cost of energy
- Increasing violence and crime
- Loss of affordability and housing opportunities
- Worsening inequities around gentrification, race, and income
- Worsening traffic congestion
- Declining air quality
- Increased food insecurity

An Opportunity for Equity

Climate change will not impact everyone equally!

Resilience strategies must not simply address climate change vulnerabilities, but **the intersecting factors** that make populations more vulnerable.

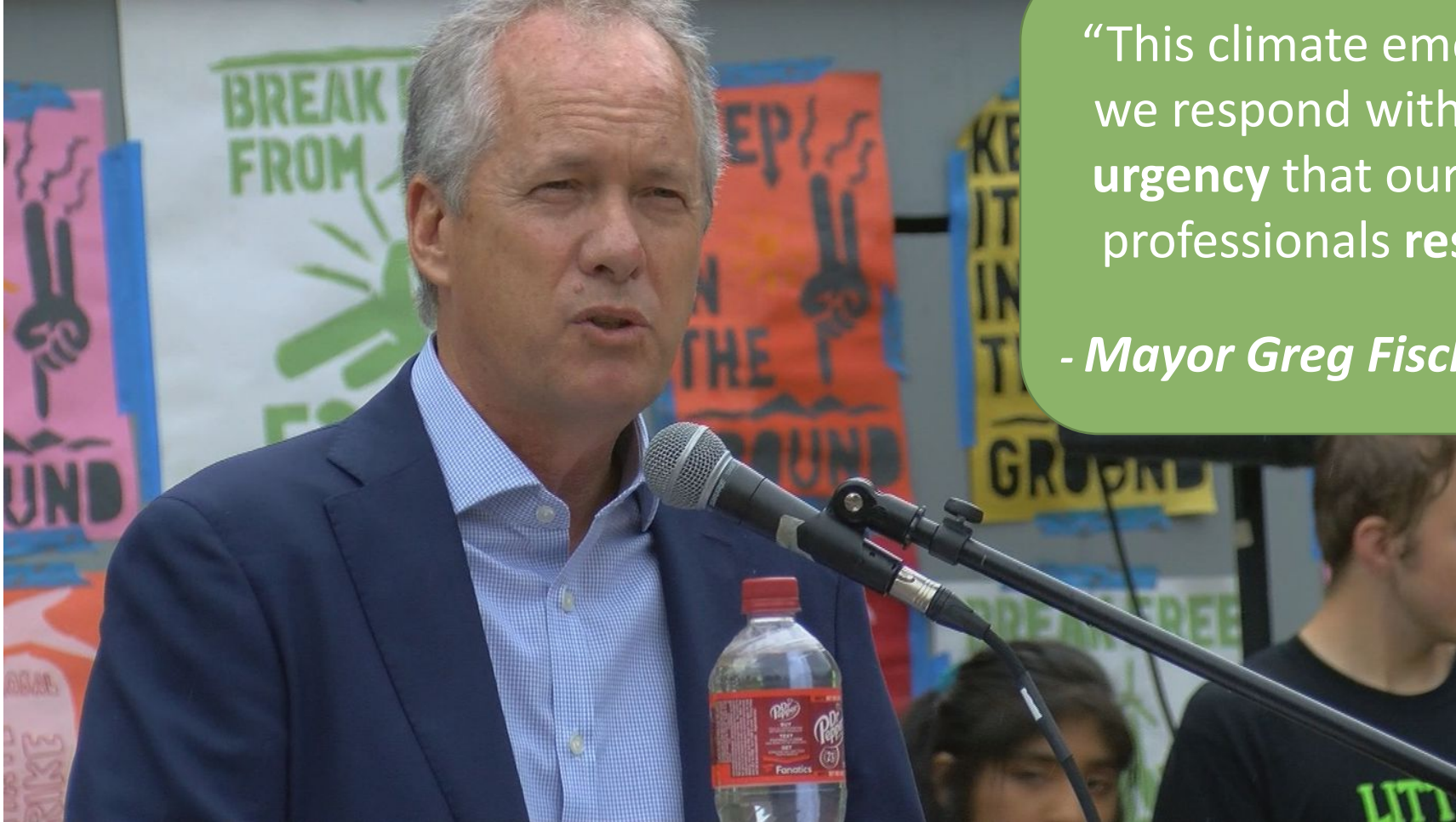
Strategies that do not **actively address** historical inequities will, in fact, **actively worsen** those inequities.



Resilience = Equity + Compassion + Trust



Louisville Declares Climate Emergency



“This climate emergency requires that we respond with the **same focus and urgency** that our police, fire and EMS professionals respond to a 911 call.”

- Mayor Greg Fischer, September 2019



Louisville Metro Sustainability Programs

Cool Roof Rebate Program

Install an ENERGY STAR reflective roof on your property and receive a \$1/ft² rebate

Cool Asphalt Shingles



Flat White Roof



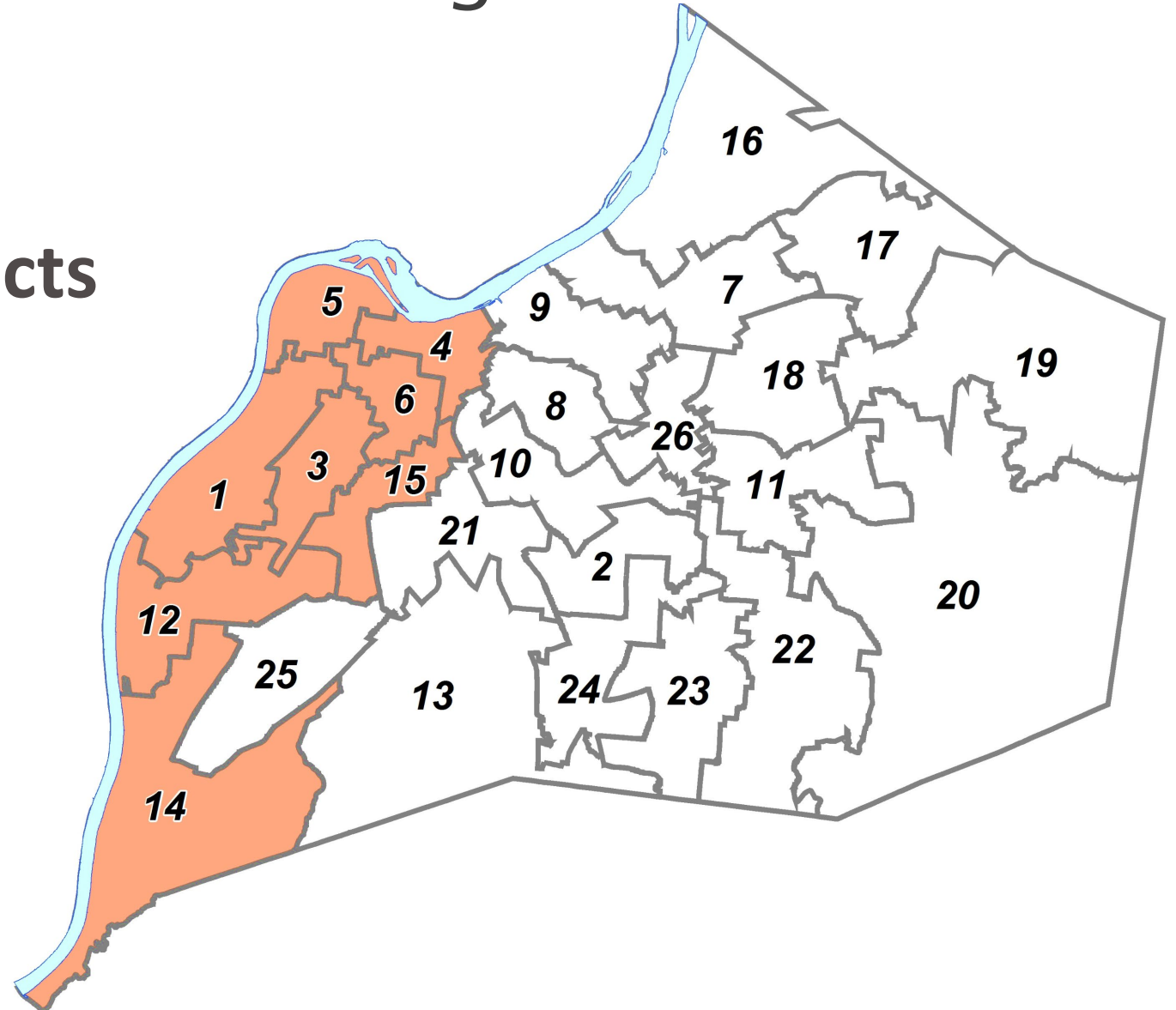
Cool Metal Roof



Save 7-15% on cooling costs and help the city manage urban heat!

Cool Roof Rebate Program

Targeted High-Heat Districts
receive 70% of funding



Energy Project Assessment District (EPAD) Program



Nationally known as PACE



Financing mechanism to repay private loans for energy efficiency, renewable energy, and water conservation projects



Available to commercial, agricultural, industrial, and multi-family property owners



Loan provides up to 100% of the project's cost and requires no down payment

Bike Sense Louisville is a public art project centered around bicycle use in Louisville.

Temperature, air-quality and **location data** is being collected from **volunteer cyclists** around the city, using small sensor units that attach to bicycles. The data is being **interpreted into sound** in real-time and playing on a pedestrian bridge.

With this health and cycling information, Louisville Metro can make important changes to bike paths and routes.

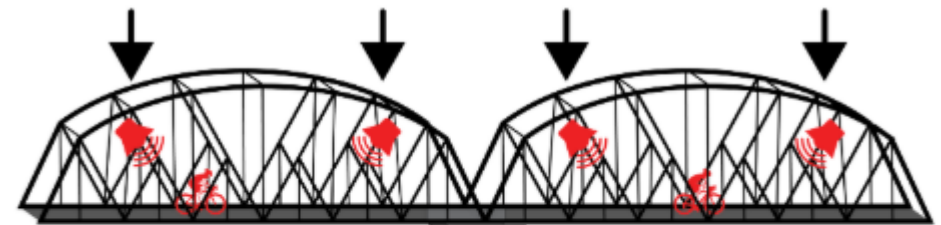


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**Citizen Cyclist
Volunteers**



**sensor
bottle**



**Big Four
Bridge**

speaker section

THANKS FOR LISTENING!



GREEN
HEART
LOUISVILLE

NLC NATIONAL
LEAGUE
OF CITIES
CITIES STRONG TOGETHER

LOUISVILLE
SUSTAINABILITY
council



LEA | LOUISVILLE
ENERGY
ALLIANCE

LOUISVILLE
grows

Partnerships

For more information...

Office of Advanced Planning and Sustainability

<https://louisvilleky.gov/sustainability>

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