

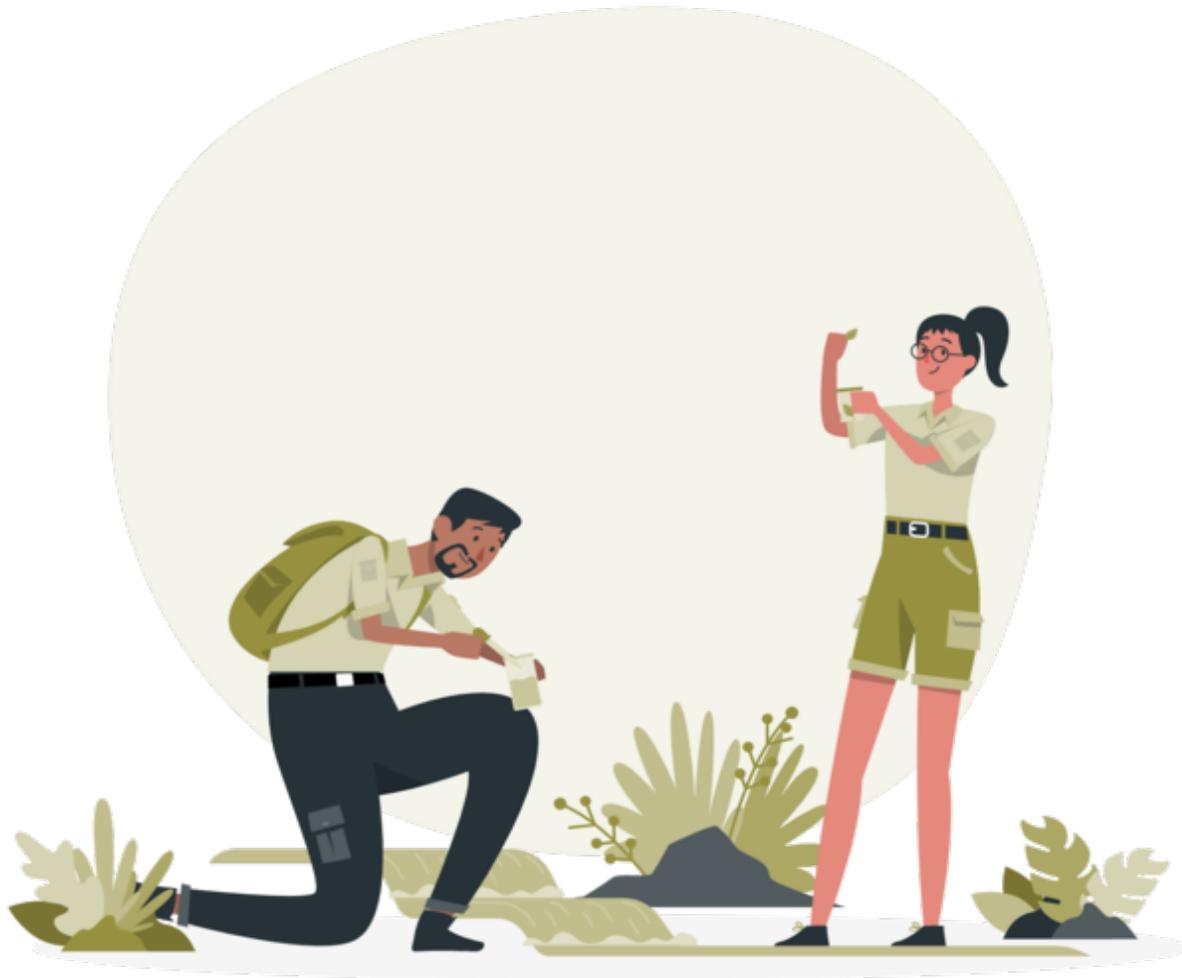


Natural Climate Solutions:
Approaching the Earth As Ally

Brett KenCairn
Natural Climate Solutions Team Lead
Climate Initiatives, City of Boulder,
CO
Director, Nature-based Climate



NATURE-BASED
CLIMATE SOLUTIONS



Managing Urban Landscapes For Climate Action: A Strategy Development Guide

developed by:

Nature-based Climate Solutions

<https://naturebasedclimate.solutions/managing-urban-landscapes-for-climate-action-strategy-development-guide>

NATURE-BASED
CLIMATE SOLUTIONS

Urban Landscapes & Organic Resources

Greenways & Riparian Areas

Urban Forests

Agricultural Systems

Parks & Grassland (Turf)

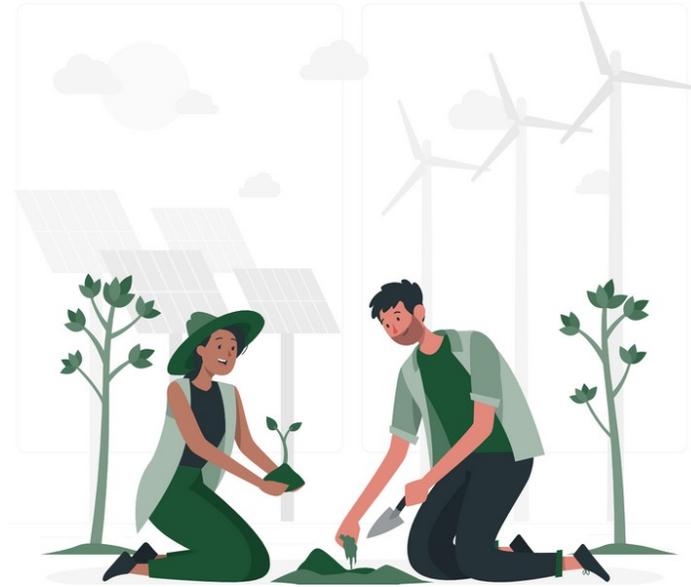
Organics Management

Aquatic Systems



Core Climate Action Objectives

Climate Mitigation



Carbon Reduction and Sequestration

Adaptation & Climate Resilience

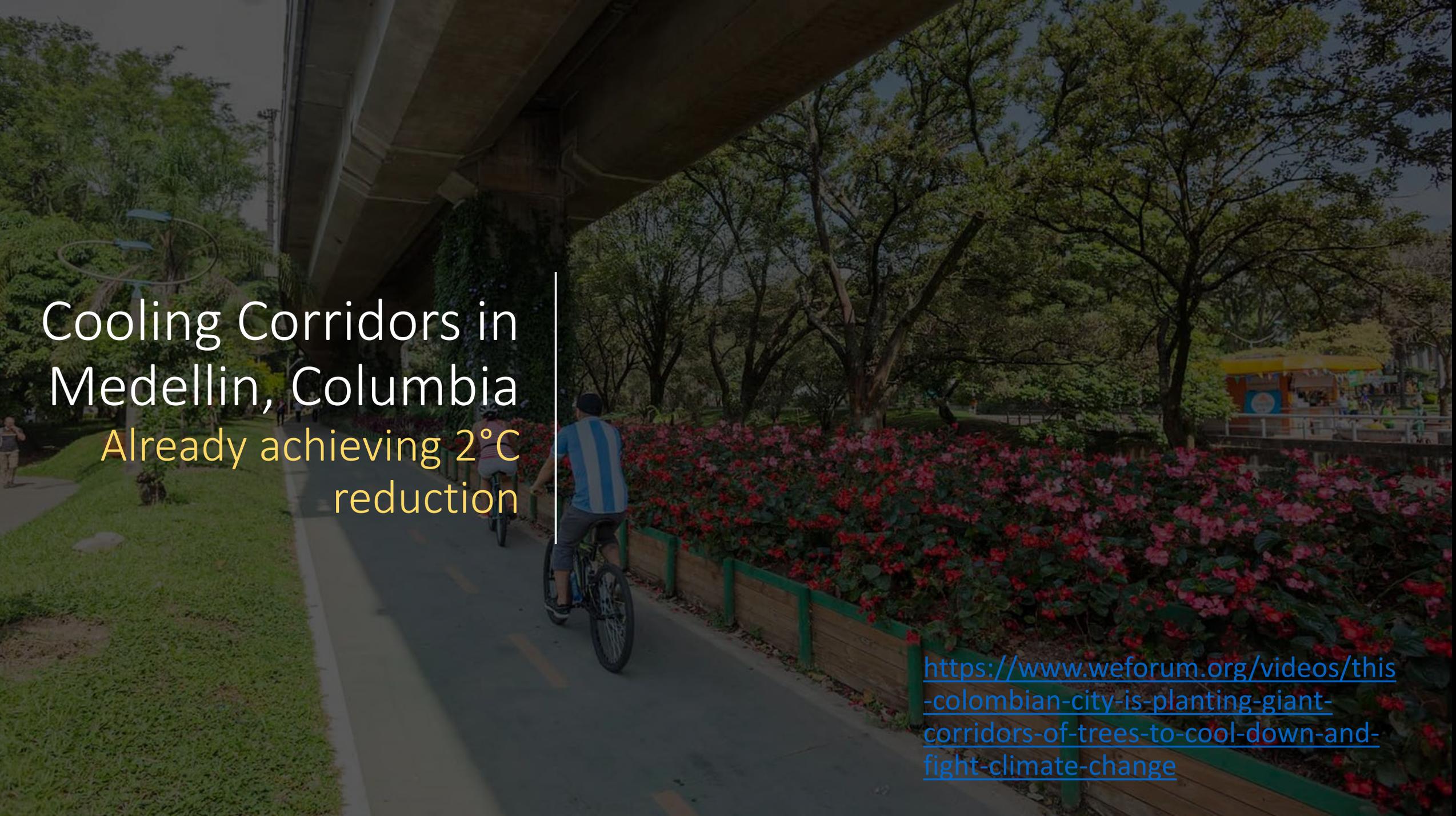


Change Management

Equity

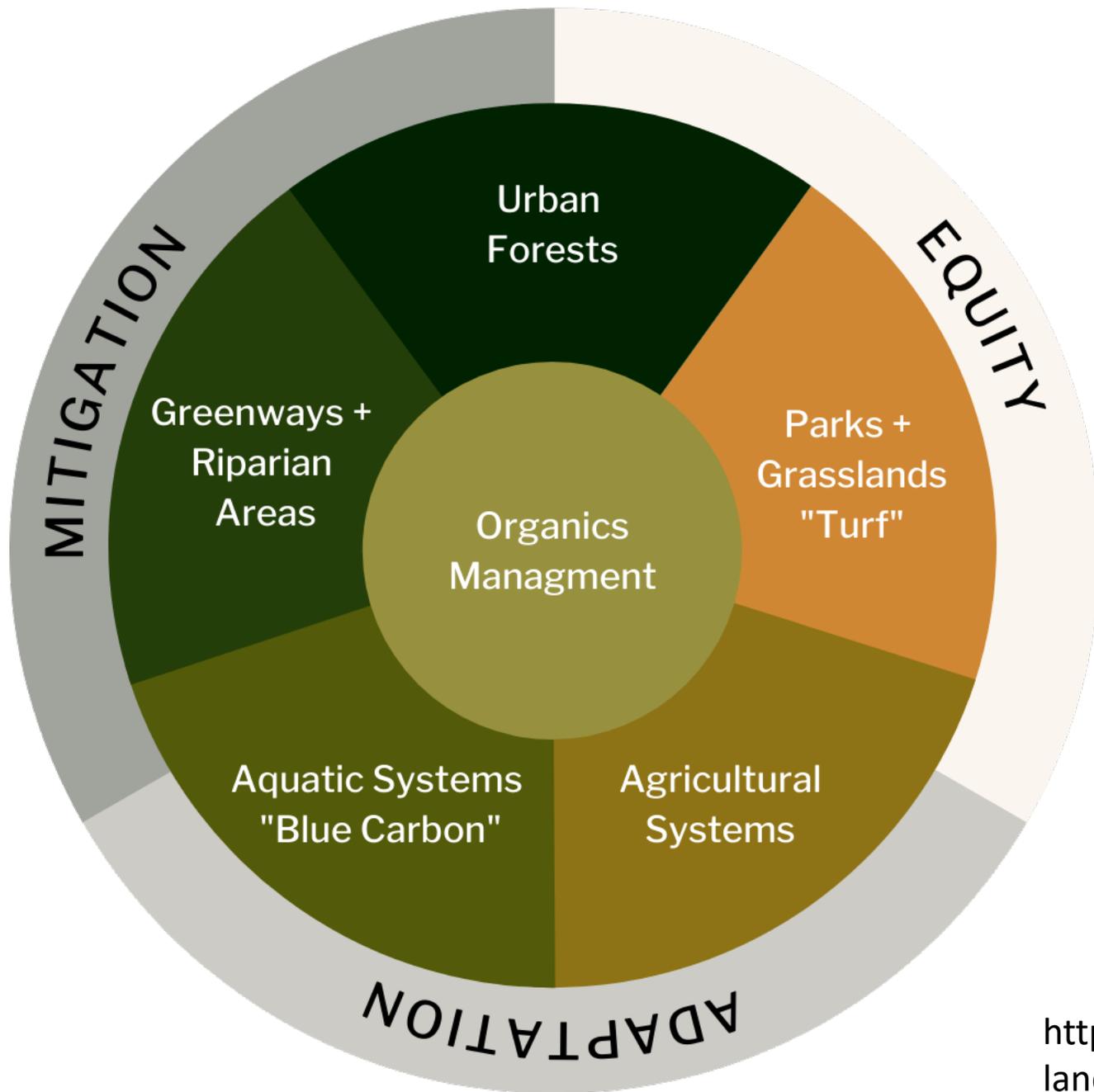


Intersectional Benefits



Cooling Corridors in
Medellin, Columbia
Already achieving 2°C
reduction

<https://www.weforum.org/videos/this-colombian-city-is-planting-giant-corridors-of-trees-to-cool-down-and-fight-climate-change>



Framework for
Natural Climate
Solutions

NATURE-BASED
CLIMATE SOLUTIONS

<https://naturebasedclimate.solutions/managing-urban-landscapes-for-climate-action-strategy-development-guide>

Strategy Development Guide

Step 1: Align with Existing Plans



Step 3: Conduct Opportunity Assessment



Step 2: Opportunity Identification

TREES FOR COMMUNITY RECOVERY

JOBS | HEALTH | EQUITY



WHY WE MUST ACT NOW

The importance of urban trees is undisputed. Urban and community forests are critical infrastructure in addressing the combined impacts of urban heat, air, toxic pollution and climate change. They also create good paying jobs and hold the key to more economic opportunity.

- With a projected 10-fold increase in heat-related deaths in the eastern U.S. by 2050, trees are the most effective means of combating urban heat islands, preventing an estimated 1,200 heat-related deaths and countless heat-related illnesses each year.
- Trees in metropolitan areas and communities across the country absorb 822,000 metric tons of air pollutants and help prevent 575,000 cases of acute respiratory illnesses, such as asthma, annually.



Local, Regional & National Urban Forestry Expansion Campaign

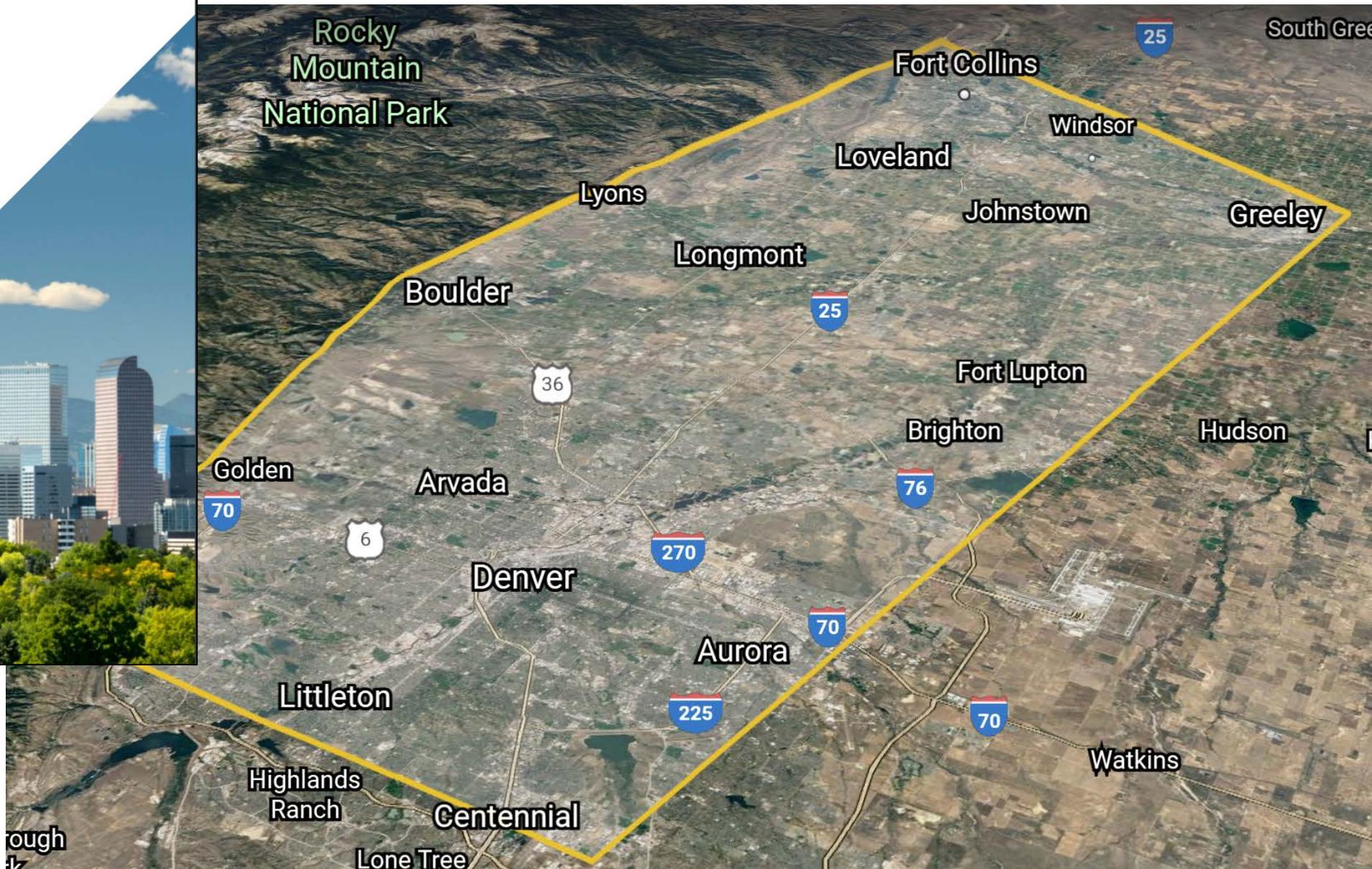
The Inflation Reduction Act (IRA) includes \$1.5B in funding through the USFS Urban & Community Forestry Program



COLORADO FRONT RANGE URBAN FORESTRY EXPANSION STRATEGY

JULY 2021

FULL REPORT





Campaign Overview

03/30/22



“Supporting and mobilizing the community to regenerate our soils, trees, and habitats for a resilient community, climate and future”



Three Action Areas



Connected Canopies



Pollinator Pathways



**Absorbent
Landscapes**



Connected Canopies

2030 Targets

- Plant 20,000 trees
- Capture 50,000 mtCO₂/yr
- Reduce temperatures by 5-10 degrees F vulnerable areas





Pollinator Corridors

2022 Preliminary targets

- Train 30+ Pollinator advocates
- Develop corridors plan
- Integrate with urban heat analysis





Urban, Natural and Working Land Rehydration (Absorbent Landscapes)



2030 Targets

- Regenerate 5,000 acres
- Absorb 40,000,000 gals water/yr



Other Actions: *Observe & Learn*

Citizen Science Opportunities

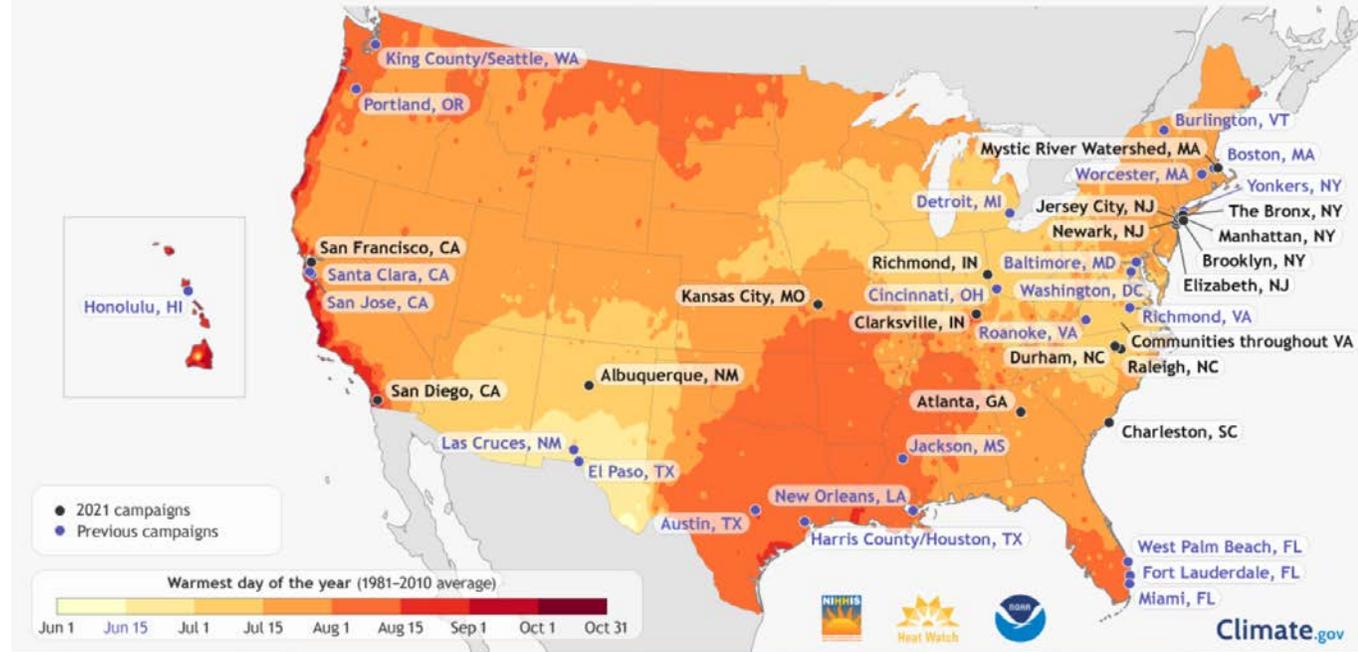
- 2022 NOAA Urban Heat Mapping Campaign
- Pollinator survey
- Land condition assessments



NOAA



NOAA Urban Heat Island Mapping Campaigns: All Locations, 2017-2021



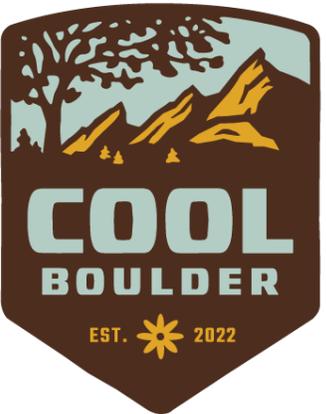


Other Actions: *Produce & Share*

Produce Regeneration Resources:

- Plants
- Compost
- Biochar





Cool Boulder -- A Community Partnership

The Cool Boulder Campaign, launching this spring 2022, has already begun collaborating across many City Departments & organizations--of all sizes--and we want to partner with yours, too! [Sign Up ->](#)

Initial partners include:

- [Bee Chicas](#)
- [Boulder JCC](#)
- [Boulder Housing Partners](#)
- [Boulder Valley Rotary](#)
- [Butterfly Pavilion](#)
- [Classrooms 4 Climate Action](#)
- [Community Fruit Rescue](#)
- [CSU Extension](#)
- [CU Masters of the Environment](#)
- [Davey Resource Group](#)
- [Drylands Agroecology Research](#)
- [Eco-Cycle](#)
- [BVSD Eco-Warriors](#)

- [Endangered Species Coalition](#)
- [Goss Grove Neighborhood Association](#)
- [Growing Gardens](#)
- [Harlequin's Gardens](#)
- [Left Hand Watershed Center](#)
- [National Oceanic & Atmospheric Administration](#)
- [People & Pollinators Action Network](#)
- [PLAY Boulder Foundation's Tree Trust](#)
- [Resource Central](#)
- [University of Colorado's Earth Lab](#)
- [We Love Trees, Inc.](#)
- [Wildlands Restoration Volunteers](#)
- [Xerces Society](#)
- [Your Neighborhood Christmas Tree Farm](#)



Strong Collaboration for Collective Impact

CHNA Collaborative



Parks and Greenspace - A priority in San Joaquin!



A Focus on
14 Priority
Neighborhoods

**3 Priority Health Needs,
1 overarching goal:**

- Chronic Disease/Healthy Eating, Active Living (HEAL)
- Mental/Behavioral Health (including substance use)
- Community Safety

Goal: Make parks in priority neighborhoods appealing and easy to use to create equitable and safe opportunities to improve physical, mental and community well being.

Leveraging resources for lasting impact

Overall Goal: Make parks in priority neighborhoods appealing and easy to use to create equitable and safe opportunities to improve physical, mental and community well being.

Key Strategies

Change or enhance implementation of existing **county and city park policies and systems** to increase park usage in Priority Neighborhoods

Park beautification & infrastructure improvements, prioritized by community members to increase park safety and use in 2-4 Priority Neighborhoods

Park programming improvements prioritized by community members to increase park safety and use in 2-4 Priority Neighborhoods

Outreach and communications to promote parks and programming for physical, mental and community wellbeing in selected Priority Neighborhoods