

USDA Forest Service

# URBAN FOREST CONNECTIONS

*webinar series*

Second Wednesdays | 1:00 – 2:15 pm ET

[www.fs.fed.us/research/urban-webinars](http://www.fs.fed.us/research/urban-webinars)



# SMART GROWTH FOR DALLAS: LEVERAGING GIS AND LOCAL PARTNERSHIPS TO DRIVE URBAN FORESTRY INVESTMENTS TOWARD CLIMATE EQUITY



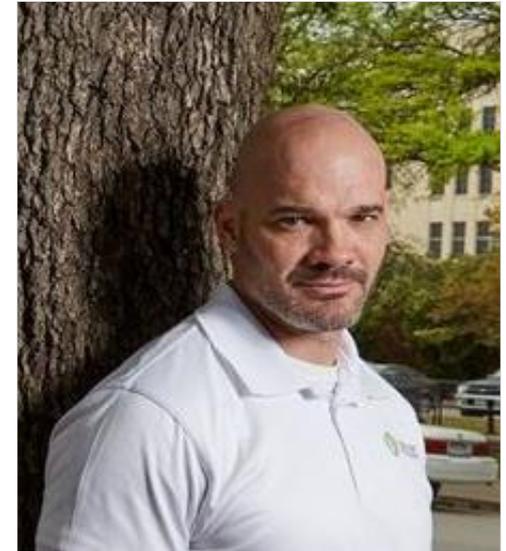
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# Smart Growth for Dallas:

*Leveraging GIS and local partnerships to drive urban forestry investments toward climate equity*

United States Forest Service  
Urban Forest Connections Webinar  
April 12<sup>th</sup>, 2017

The logo for The Trust for Public Land, featuring the text "THE TRUST FOR PUBLIC LAND" in white, stacked vertically, on a green rectangular background.

THE  
TRUST  
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# Climate-Smart Cities National Program

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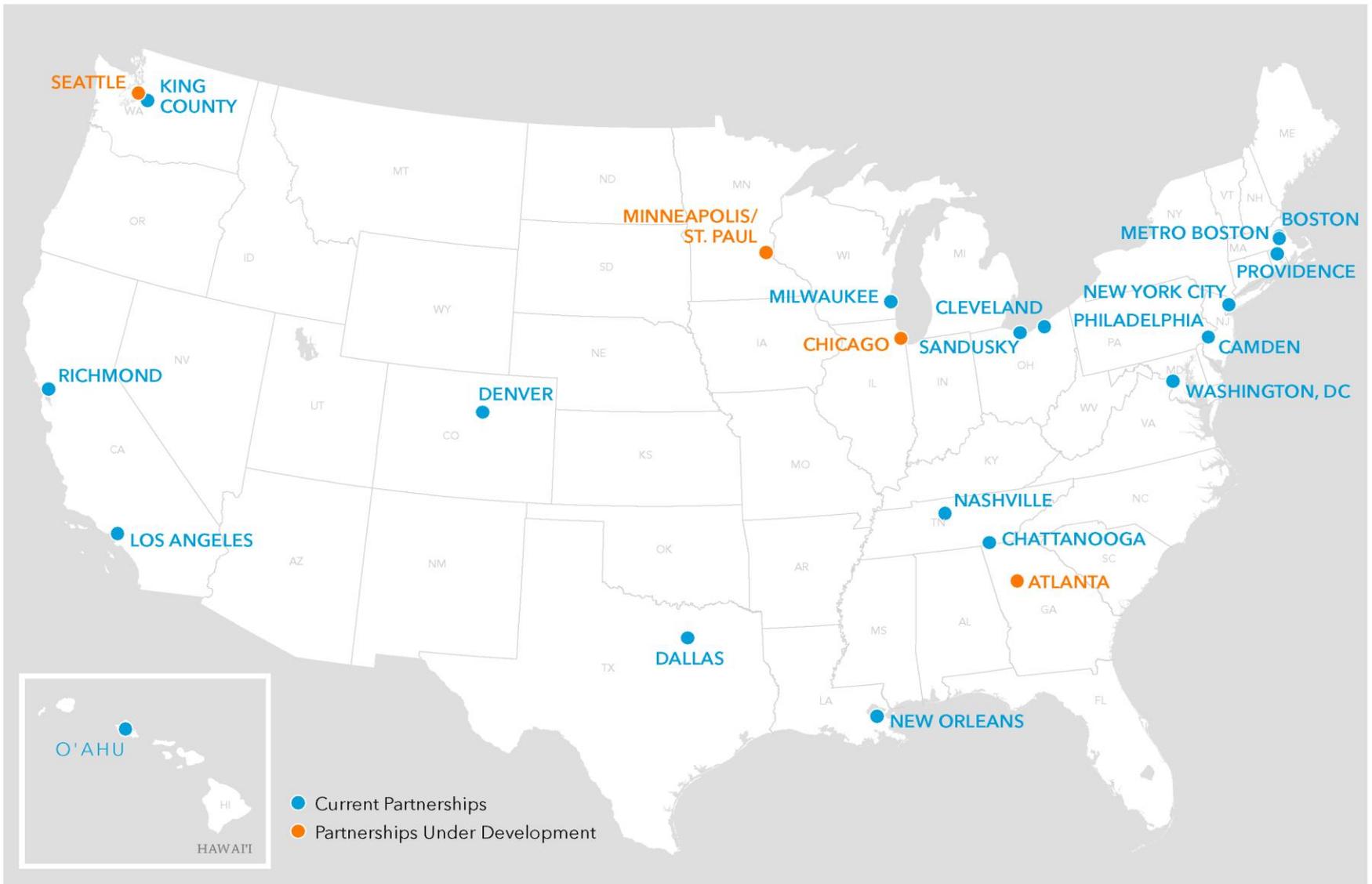
Jad Daley

Vice President and Director  
of Program Development  
Martha Wyckoff Fellow  
The Trust for Public Land

Washington, DC

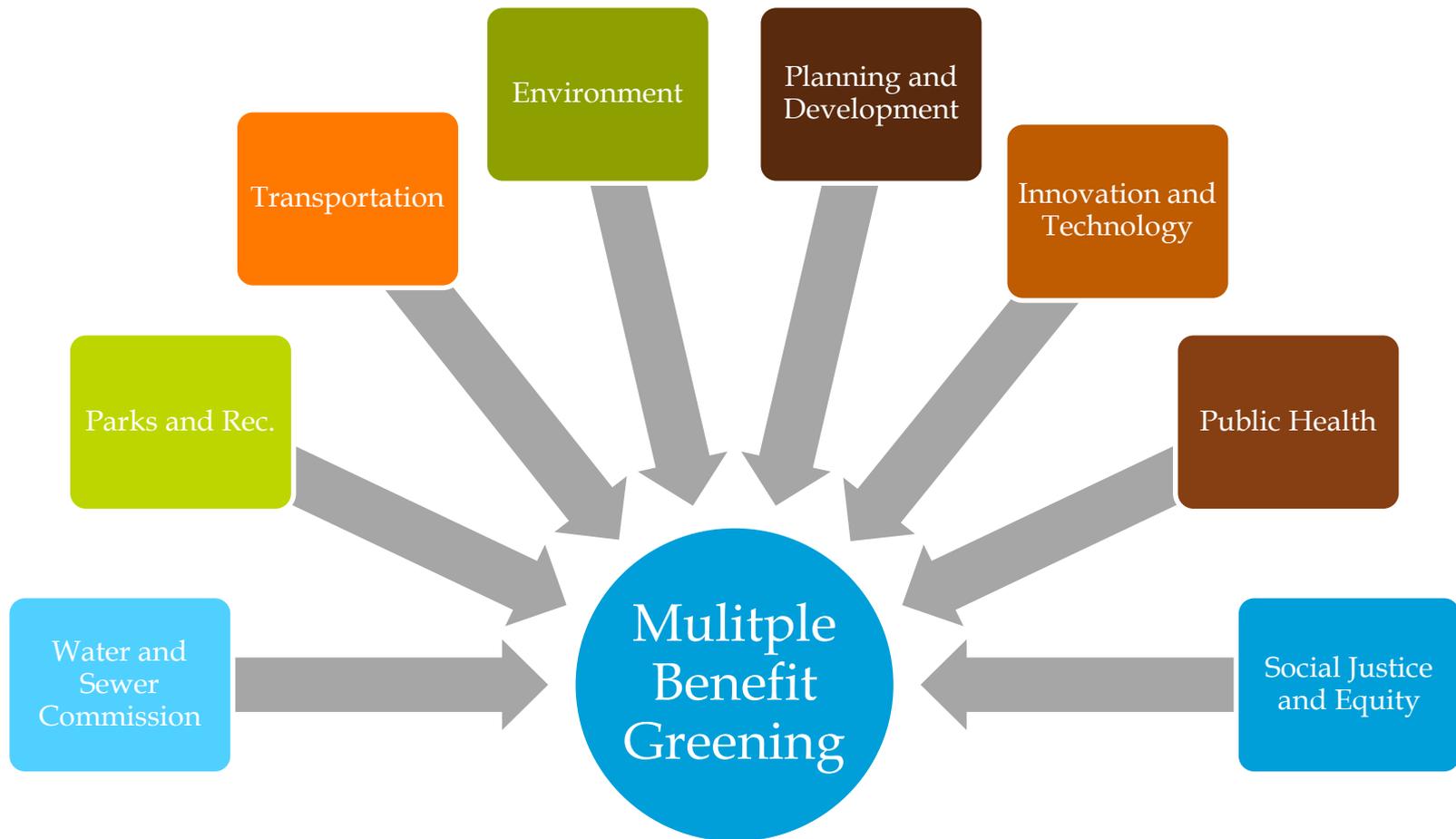


# Our Climate-Smart Cities Framework



# Climate-Smart Cities Partnerships

# Program Objective: Help Cities Identify and Integrate Levers for Green Infrastructure



# Cross-sector integration



# Climate-Smart Cities Partnership – Our Integrated Approach

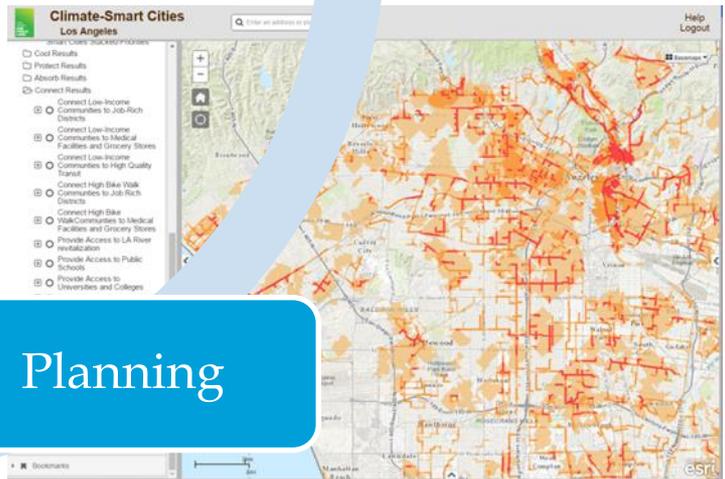
## Los Angeles Example



Partnership  
Development



Research



Planning

Funding

Implementation



# Theory of Change in Action: Our Discovery Process

Drivers of Green Infrastructure Implementation



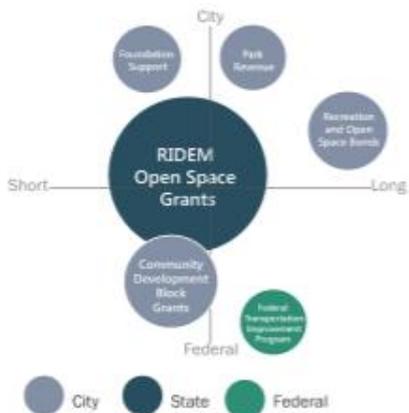
Barriers to Green Infrastructure Implementation



Green Infrastructure Implementers



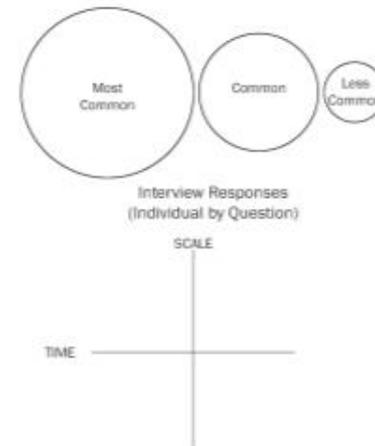
Sources of Green Infrastructure Funds



Information and Research Gaps



Legend





CLIMATE-SMART CITIES™

The benefits of green infrastructure for heat mitigation and emissions reductions in cities



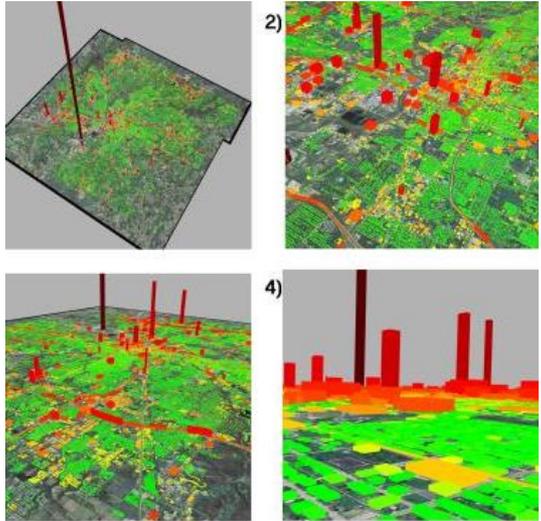
Heat Risk & Response



Modeling Storm and Floodwater Dynamics



JPL  
Jet Propulsion Laboratory  
California Institute of Technology



CO2 Emissions Data

Research: Partners Fill Data & Knowledge Gaps



# Planning: Internet-Based Decision Support Tool Integrates Climate-Smart Data

**Green Infrastructure for a Low-Carbon, Resilient Boston**

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Help Logout

Enter an address or place

Basemaps

**Data Library**

**Priority Modeling**

**Overlay Data**

- Parcels
- Reference
- Connect
- Cool
- Absorb
- Protect
- Critical Infrastructure
- Social Vulnerability
- Green Infrastructure Suitability

**Analysis Results**

- Turn off all Results
- Overall Stacked Priorities
- Cool
- Connect
- Absorb
- Protect
- Critical Infrastructure
- Social Vulnerability

Scenario Weights

esri

## Site Analysis

146 london st

Create Parcel Profile Report

Parcel ID: **0105902010**  
Owner Name: **LOMBARDO COMPANIES**  
Address: **138-146 LONDON ST**  
Zip Code: **02128**  
Acres: **0.374515**

**Criteria**

Mean Slope (%):	0.9
Tree Count:	8
Mean Canopy (%):	0
Vacant Lot (0 or 1):	1

### Functions:

- Address Search
- Parcel Selection
- Profile Reports

## Data Exploration

### Functions:

- Layer exploration
- Cartography Tools
- Print Tool
- Comparison Slider



## Site Selection

### Functions:

- Query
- Site Selection

Acres

Logical Operator: Query Value: >= 2

Add Condition

Query Conditions:

- Acres >= 2
- AND
- Vacant Lot (0-No or 1=Yes) = 1
- AND
- Promote Active and Healthy Lifestyles by Providing Access to Green Space = "Yes"
- AND
- Low Income Households = "Yes"
- AND
- Estimated Runoff Potential = "Yes"
- AND
- Cool Priorities = "Yes"

Use And or Or Between Conditions.

Parcels

Parcel ID	Address	Cool Priorities	Connect Priority Areas	Absorb Priorities	Critical Infrastructure Priorities
2201904006	GUEST ST	Yes	No	No	No
2200300000	90 WESTERN AVE	Yes	No	No	No

1 of 5 of 6 results

# Funding: Climate-Smart Cities Attract Smart Money!



**\$220 Million for Urban Greening and Climate Communities**

## HUFFPOST GREEN

EDITION: US

FRONT PAGE POLITICS BUSINESS MEDIA WORLDPOST SCIENCE TECH HEALTHY LIVING HUFFPOST LIVE ALL SECTIONS

### THE BLOG

## California Dreaming Becomes Global Climate Leadership

02/02/2016 01:17 pm ET | Updated Feb 02, 2016



Jad Daley  
Director of Program Development at The Trust for Public Land

I just returned to the United States from California and want to share some observations from my time away. The most important of these: California approaches have proven central to addressing the world's climate crisis. California passed its original cap and trade legislation in 2006, when federal climate policy was largely in its infancy. Almost a decade later, California is leading the nation and the world into a new climate-smart paradigm.

### FOLLOW HUFFPOST



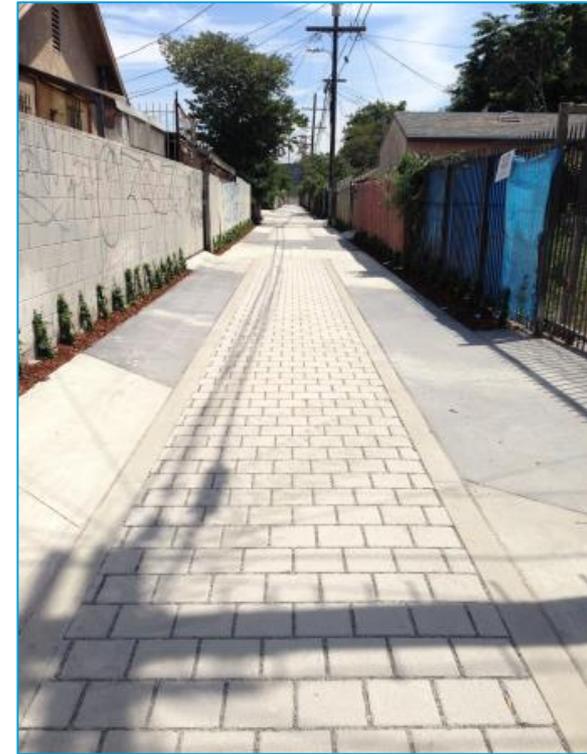
**EnviroMetro**  
Los Angeles' Coalition for Green, Equitable & Healthy Transportation

**Local Funding Measures**

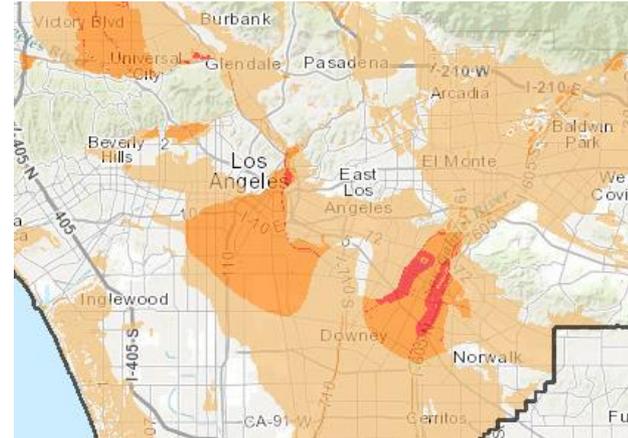
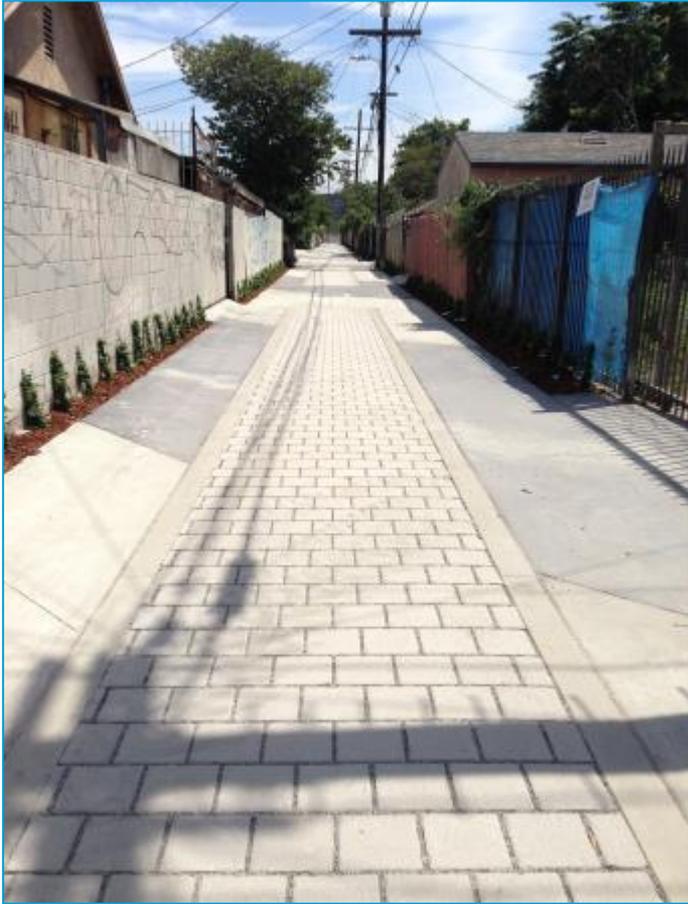
THE TRUST FOR PUBLIC LAND

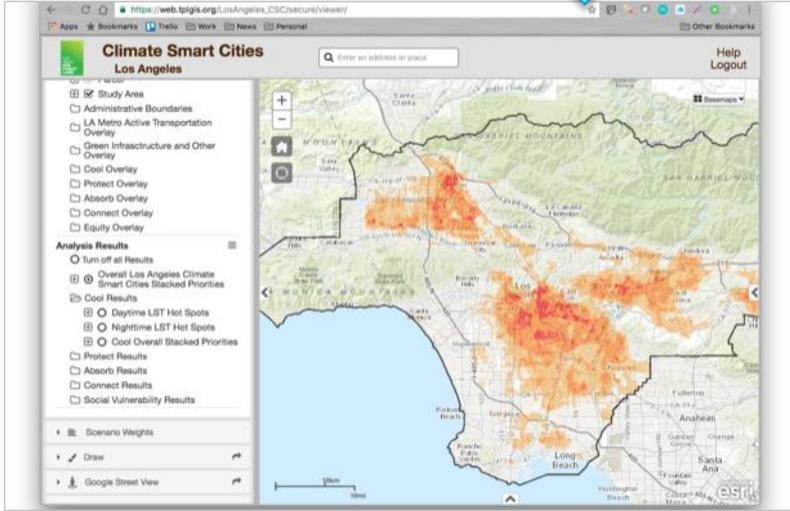
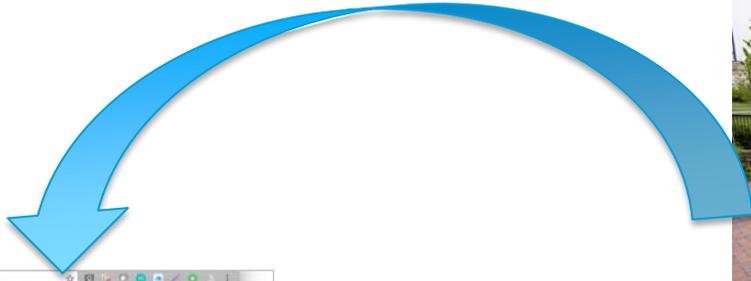


# Green Alleys Connect, Cool and Absorb



# Climate-Smart Design Details – High Albedo Paving to Cool, Dry Wells to Fully Absorb

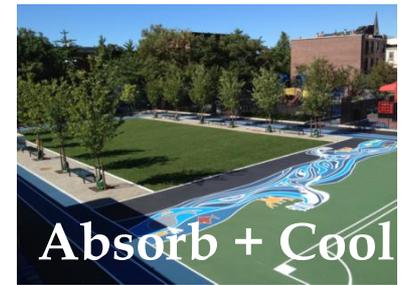
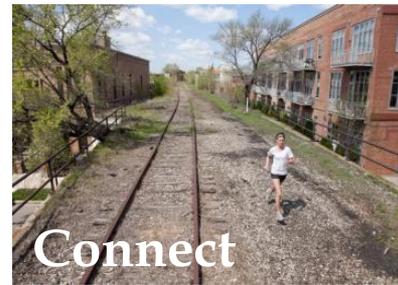




# Tool-Implementation Feedback Loop

# Climate-Smart Cities Implementation

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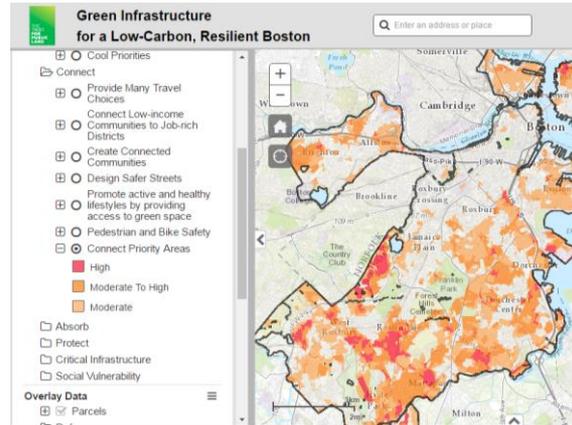


Partner Needs and Opportunities

# Climate-Smart Cities Implementation



GI Coalition Building /  
Learning Labs



Policy and Decision Making



GI Project Development



Range of Implementation Opportunities