

Climate Smart Cities

Harnessing Data for Climate Solutions

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The logo for The Trust for Public Land, featuring a green square with a gradient from light green at the top to dark green at the bottom. The text "THE TRUST FOR PUBLIC LAND" is written in white, uppercase letters, stacked vertically on the right side of the square.

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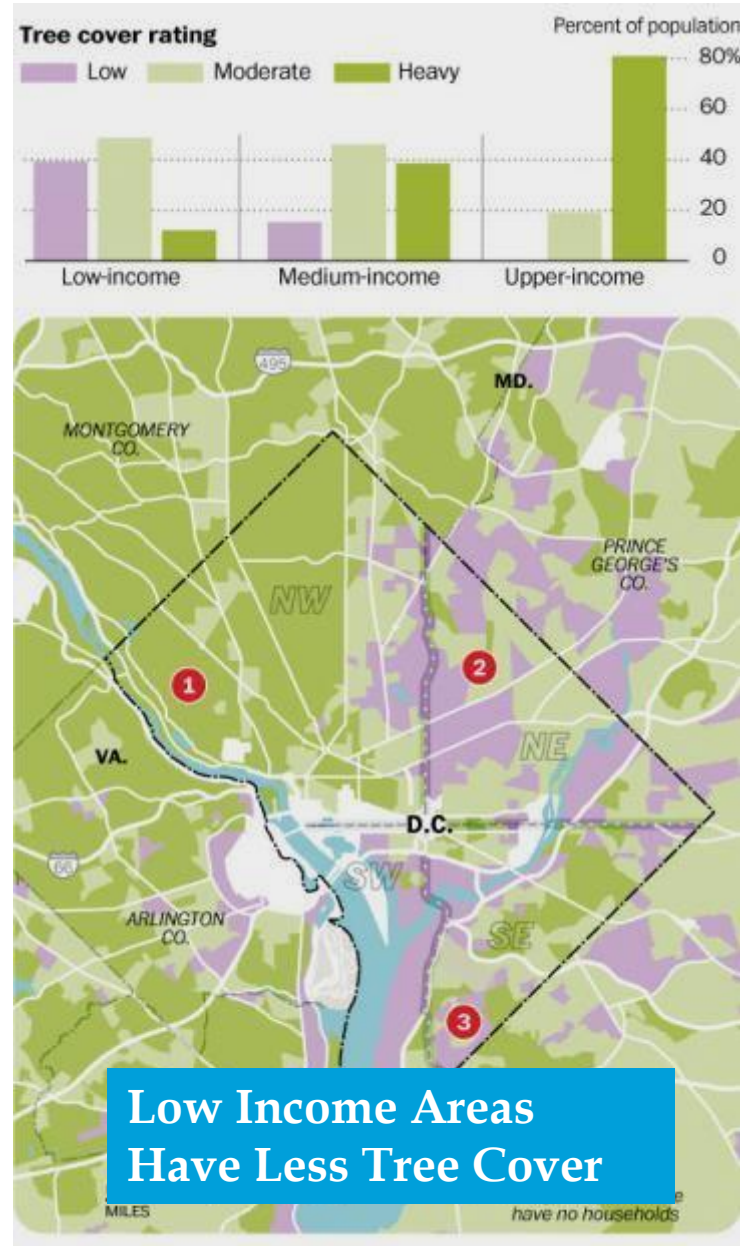
Climate-Smart = Low-Carbon + Resilient



Climate Justice



10X Increase in
Heat-Related
Deaths by 2057

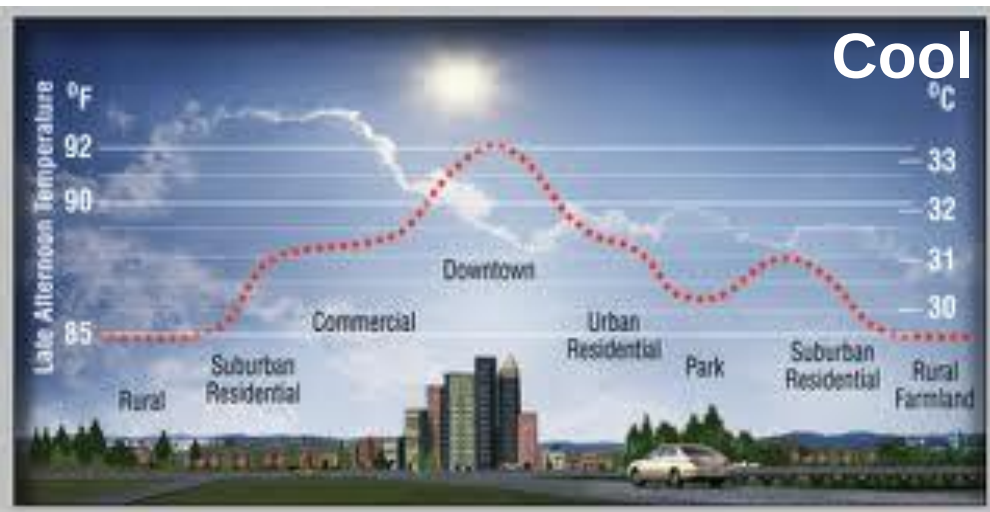


Heat Hits Hardest for Low Income and Elderly

Connect



Cool



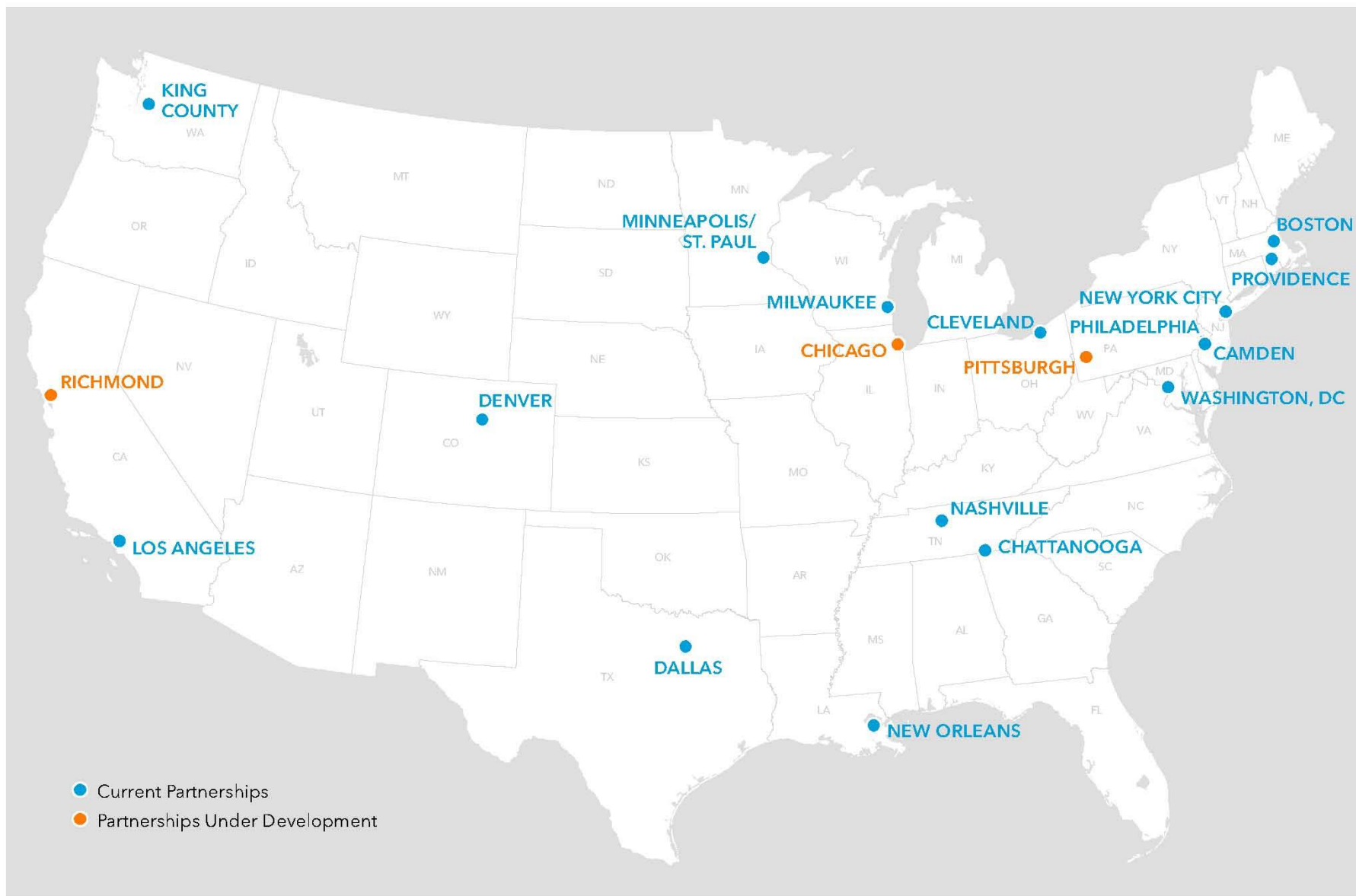
Absorb



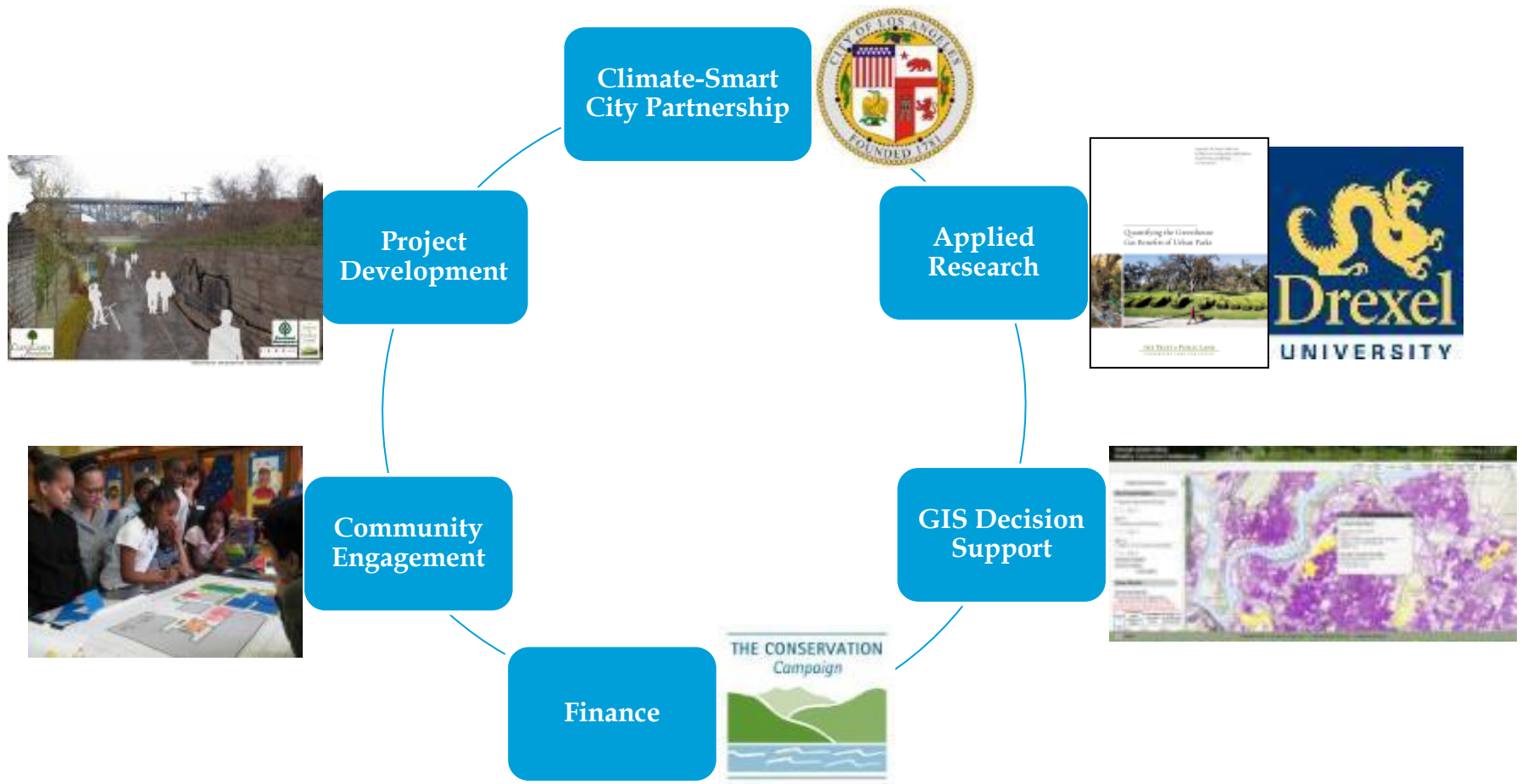
Protect



Program Objective: Help Cities Deploy Green Infrastructure within Climate-Smart Cities Framework



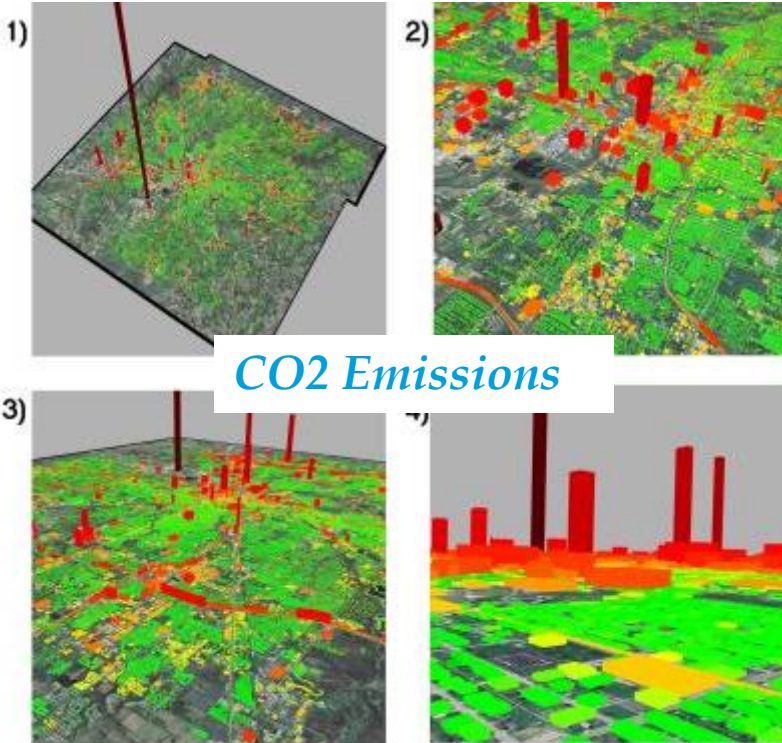
Climate-Smart Cities Partnerships



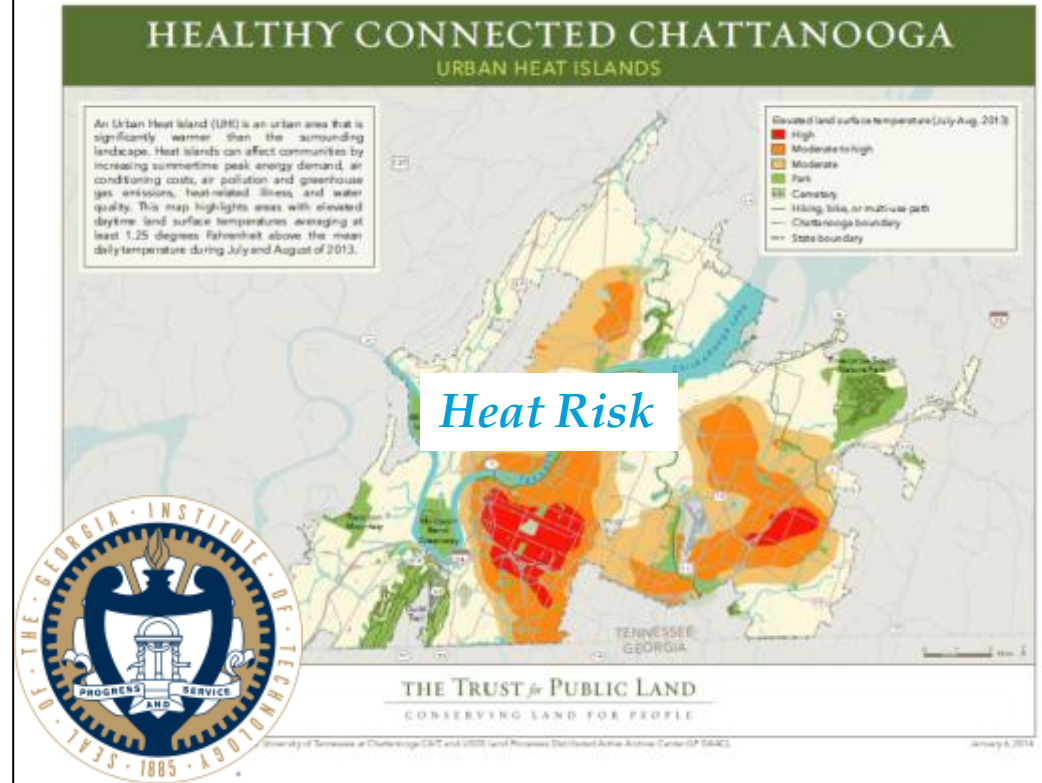
Our Climate-Smart Cities Model Integrates from Planning to Implementation

It All Starts with Data!

CO2 Emissions



Jet Propulsion Laboratory
California Institute of Technology



Heat Risk



Flood Risk



Decision Support Tool Integrates and Democratizes Data

Climate Smart Cities:
Healthy Connected Chattanooga

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Zoom In Zoom Out Pan Full Extent Previous Extent Measure Length Measure Area Identify Reset Map

Map Background:

Street Map Terrain Map Aerial Imagery

Analysis Data:

[Data Sources](#)

- ☒ Cool
- ☒ Connect
- ☒ Absorb and Protect
- ☒ Equitable Access and Health
- ☒ Green Infrastructure Assets and Opportunities
- ☒ Reference Layers

Data Transparency:

☐ ☒

Analysis Results:

[Data & Methodology](#)

- ☐ Turn off Analysis Results
- ☒ Overall Stacked Priorities
 - ☒ Stacked Priorities
- ☒ Cool
- ☒ Connect
- ☒ Absorb and Protect
- ☒ Equitable Access and Health

Data Library

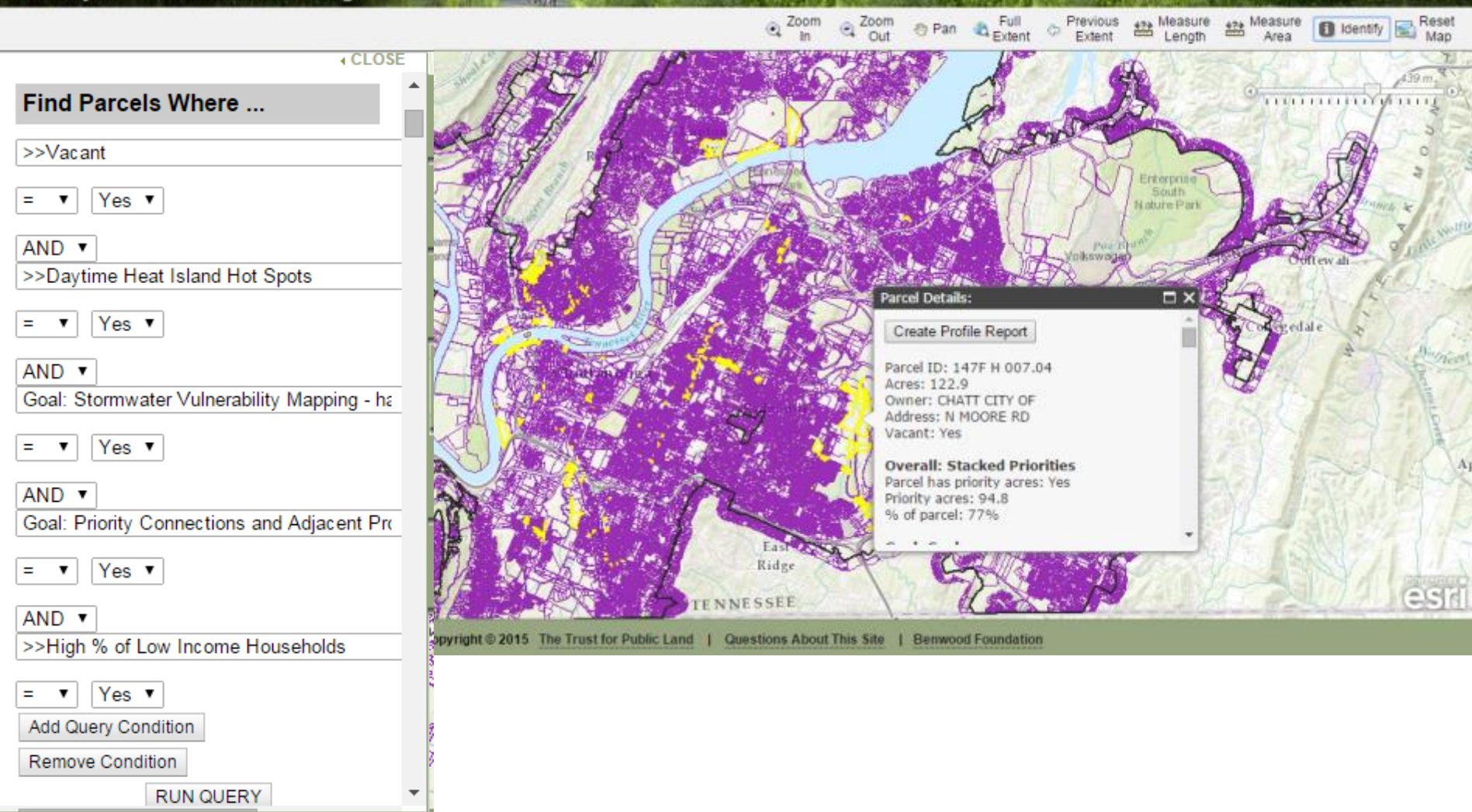
Priority Modeling



HELP

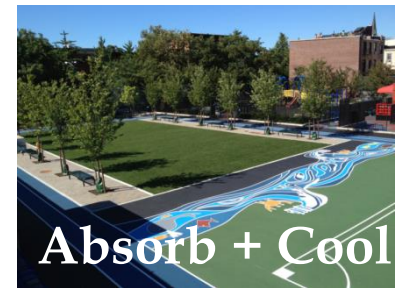
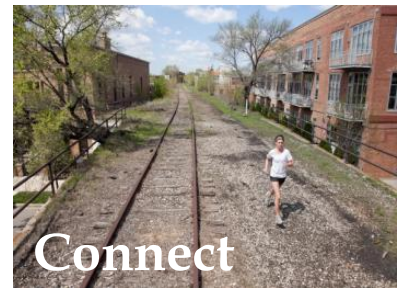
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Our Tool Works at the Parcel Level and
Lets Users Ask Questions of the Data

Climate Smart Cities Implementation



From Absorb to Multiple Benefit Urban Greening



Green Infrastructure
Schoolyards



Green Alleys



Connective Corridors/
Linear Parks



Community Agriculture



Water-Smart Parks

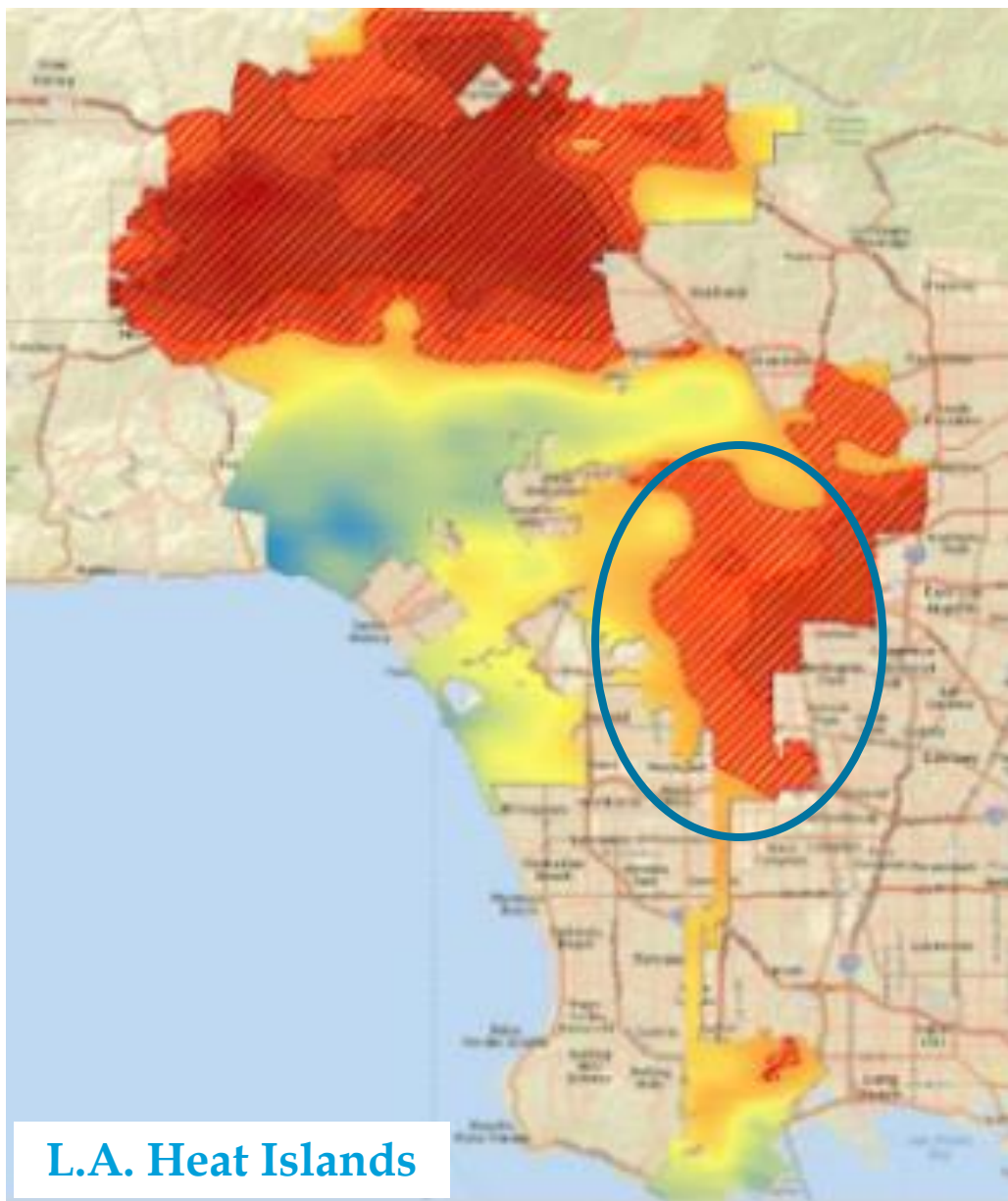
TPL Green Infrastructure Project Typologies

Green Alleys

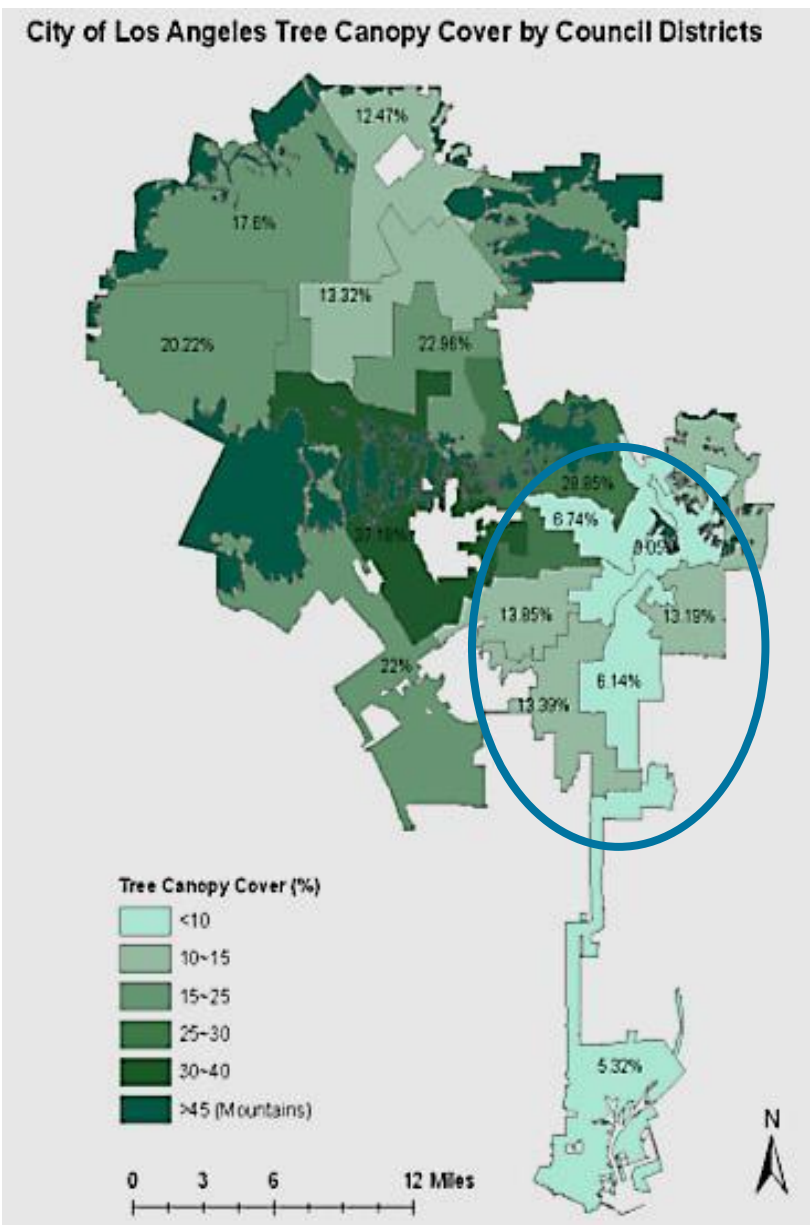
Los Angeles, California



Science & Planning Link to Climate-Smart Implementation



L.A. Heat Islands



Science & Planning Link to Climate-Smart Implementation



Science & Planning Link to Climate-Smart Implementation



Prepared for The Trust for Public Land
by Philip Grech, Penelope Miller, Mihel Nakhari,
Marybeth Riley and Lily Shoup
FCF International

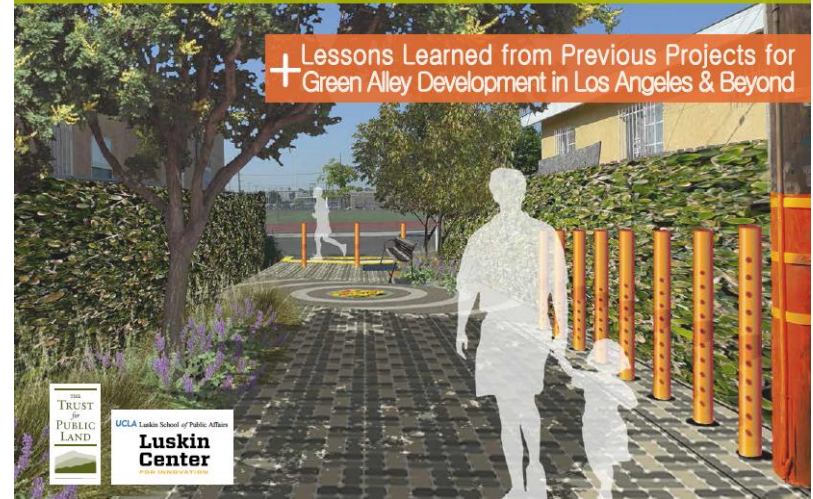
Quantifying the Greenhouse Gas Benefits of Urban Parks



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THE AVALON GREEN ALLEY NETWORK DEMONSTRATION PROJECT

+ Lessons Learned from Previous Projects for
Green Alley Development in Los Angeles & Beyond



Tributary Area

4.44 acres

Infiltration Rate

12 in/hr

Volume of Storage
Provided

5,560 cf

~85%

impermeable
surfaces and
pavement in
South LA

28%

of South LA
residents live
below the
poverty line

expected to
reduce up to

90%

bacterial loads for
20,000 people per
square mile

Climate-Smart Implementation = Evaluate & Replicate

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Green School Yards

New York, New York





Before - M.S. 267

After - M.S. 267





BEFORE

J.H.S. 157



AFTER

J.H.S. 157

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Thank You

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