Climate-Smart Cities ™ Boston and Metro Mayors Region

Research, Data, and Nature-Based Solutions for Climate Resiliency

June 2, 2016 Smart Growth Conference

THE TRUST FOR PUBLIC LAND

The Trust for Public Land

Mission

The Trust for Public Land creates parks and protects land for people creating healthy, livable communities for generations to come.

Vision

An America where every community can connect with nature near and far.

The Trust for Public Land

5,000+ PLACES

We have created and protected more than 5,000 special places, from a 14,000-foot peak in the Rockies to the Brown vs. Board of Education historic site.

7+ MILLION

More than 7 million people now live within a 10-minute walk of a place that has been created or protected by The Trust for Public Land.

$60 BILLION

We have helped generate nearly $60 billion in public funding for parks and natural areas through ballot measures supported by nearly 100 million voters in 37 states.

EVERY CITY

We are mapping the parks in every major city in America, advocating for the 100 million people who don't live within a 10-minute walk of a park. Yet.
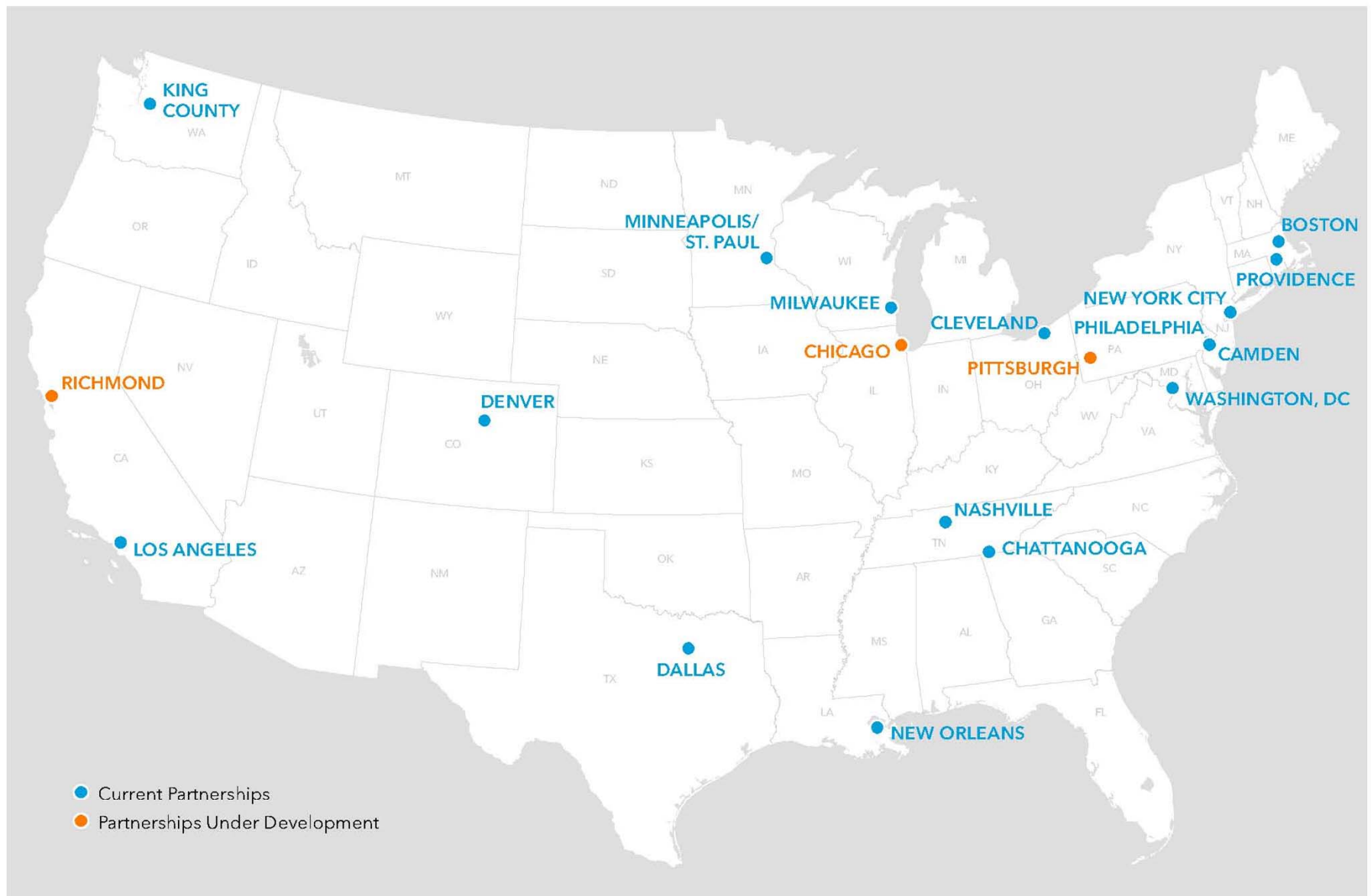

PLAN

FUND

PROTECT

CREATE

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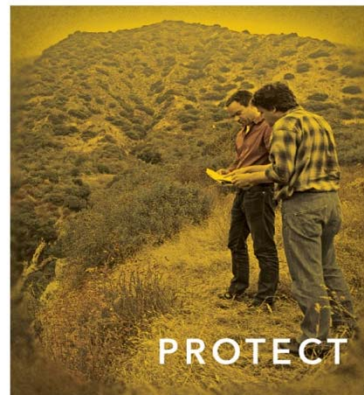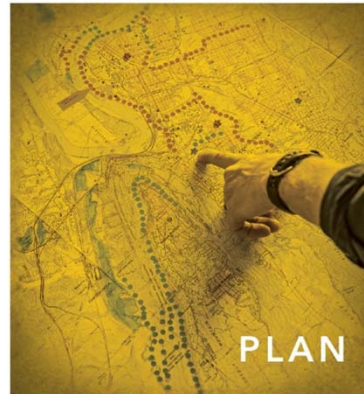
Climate-Smart Cities =
Low-Carbon + Resilient + Climate Justice

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Climate-Smart Cities Partnerships

Map legend:
- Current Partnerships (blue)
- Partnerships Under Development (orange)

Cities labeled:
- KING COUNTY
- MINNEAPOLIS/ST. PAUL
- BOSTON
- PROVIDENCE
- MILWAUKEE
- NEW YORK CITY
- CLEVELAND
- PHILADELPHIA
- CHICAGO
- PITTSBURGH
- CAMDEN
- RICHMOND
- DENVER
- WASHINGTON, DC
- NASHVILLE
- LOS ANGELES
- CHATTANOOGA
- DALLAS
- NEW ORLEANS

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Delivering Climate-Smart Cities™—Our Integrated Approach

Cities Partnership and Stakeholder Engagement

Green Infrastructure Solutions and Public Engagement
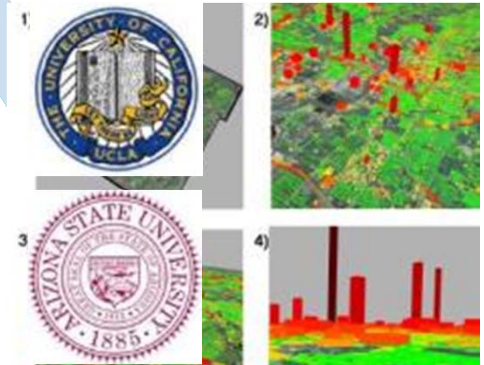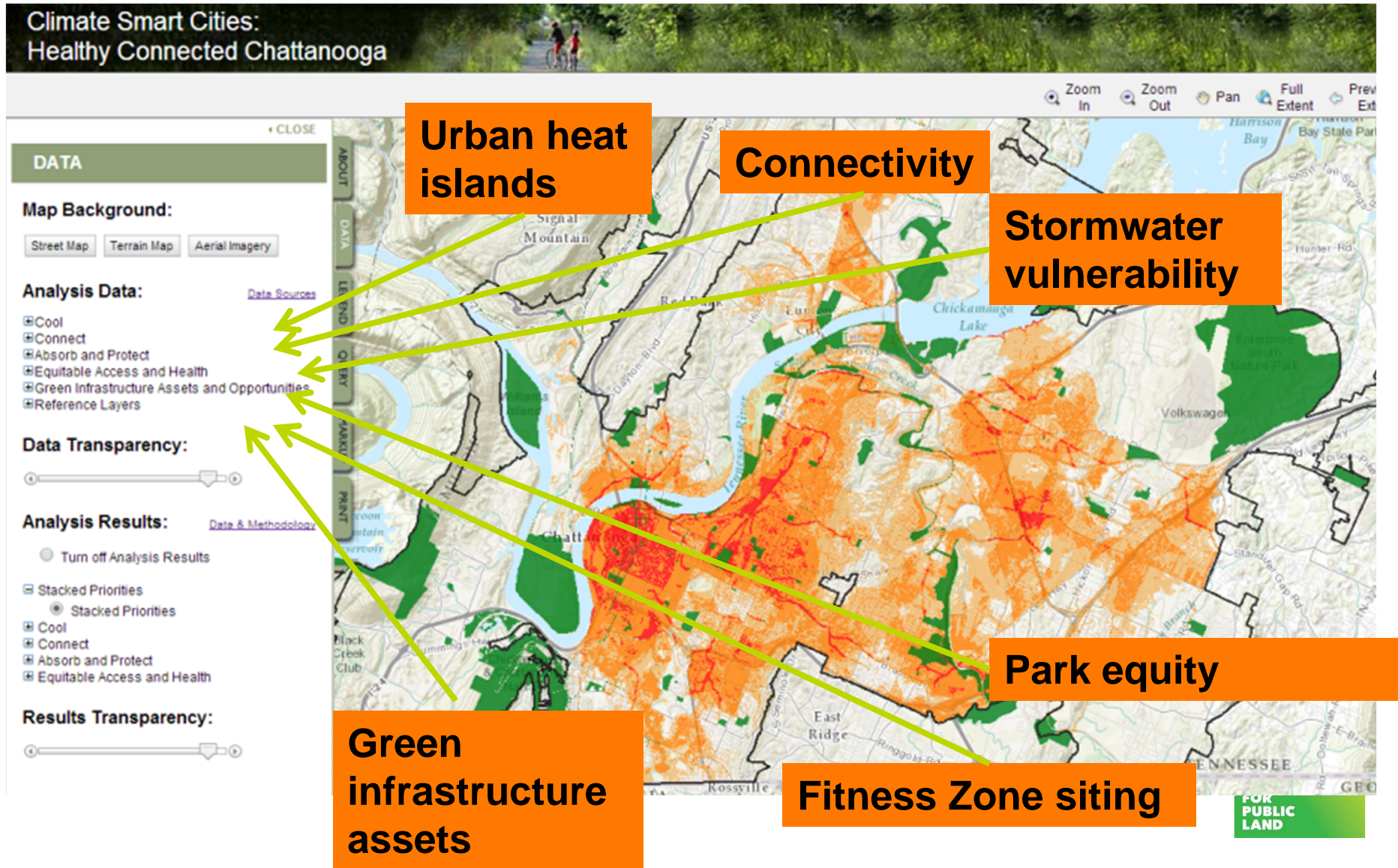
Applied Research

GIS Decision Support
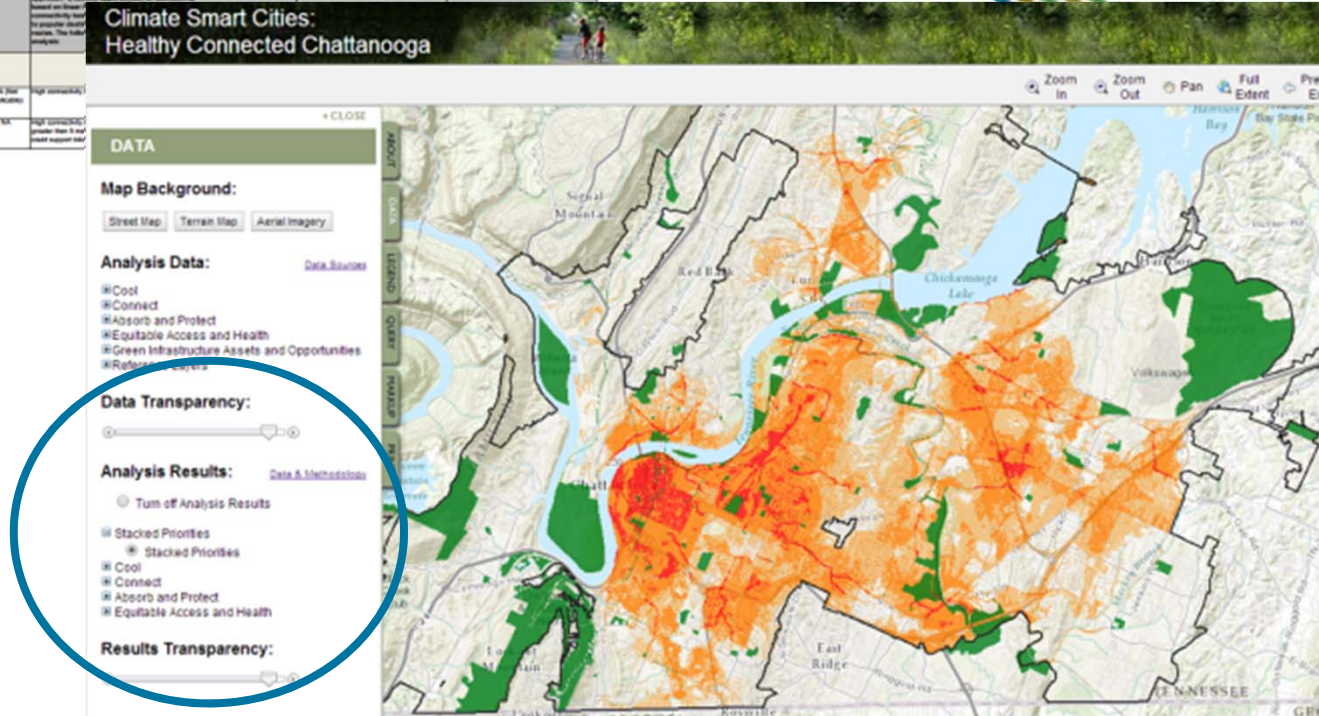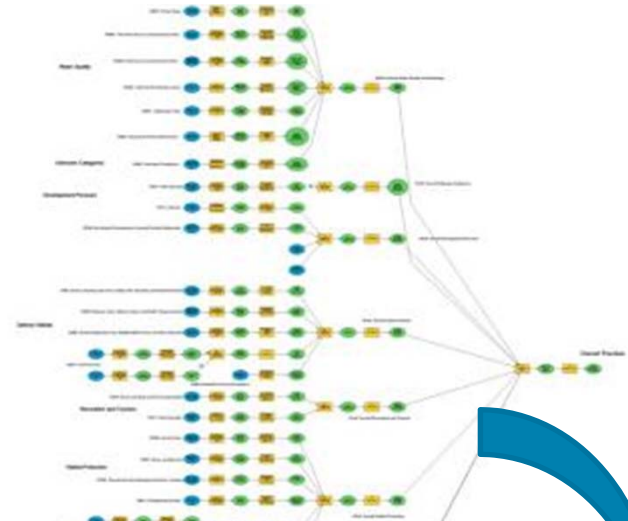
Multiple-Benefit Green Infrastructure Solutions

Connect

Cool

Protect

Absorb

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GIS: Online Portal for Applying Spatial Data to Climate Decisions

The Data in the Portal Can Be Combined to Model Priorities at the City (or Regional for Metro Mayors) Scale
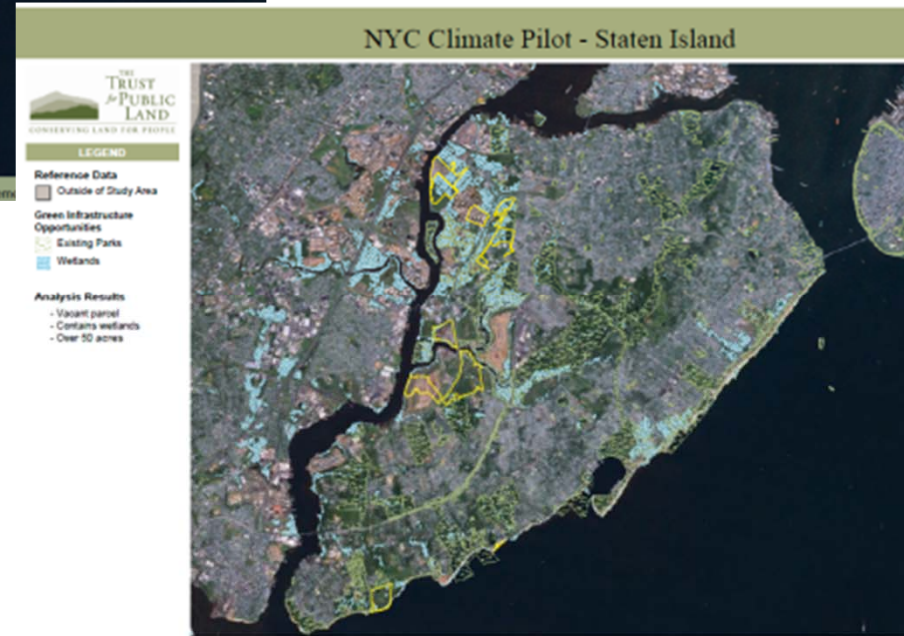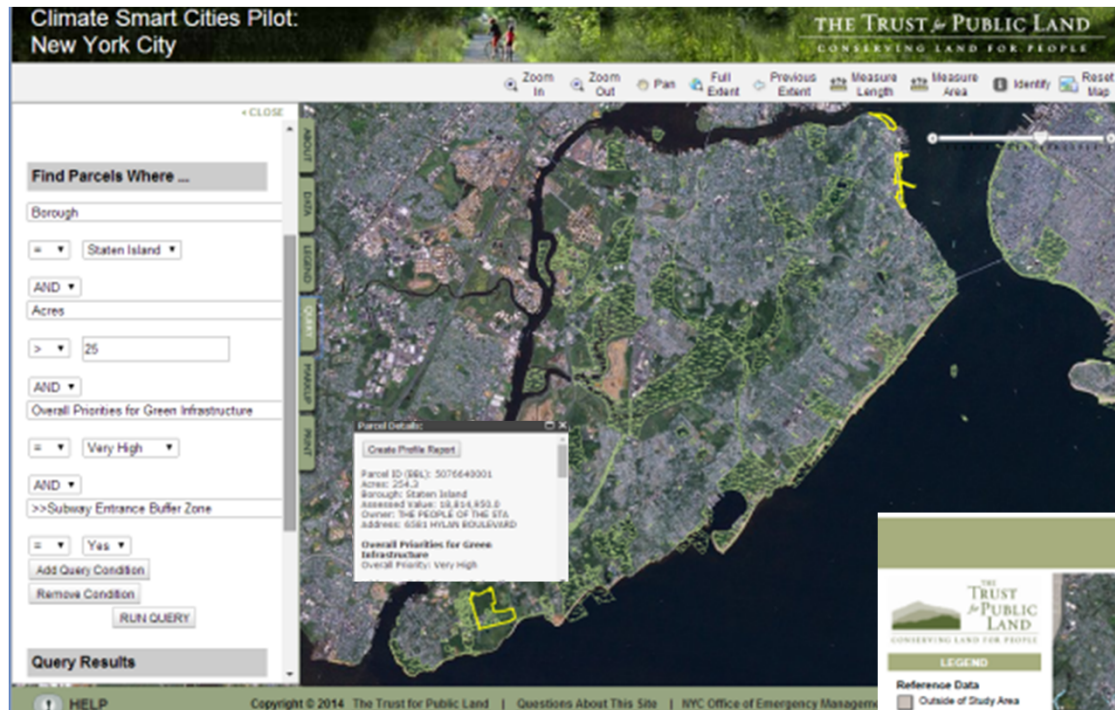
Portal: Use Query Function to Find High Value Parcels and Develop Parcel Priority Maps

Climate Smart Cities Pilot: New York City
Parcel Report

Parcel ID (BBL): 5052020173   Acres: 1.9   Borough: Staten Island

Priorities for Green Infrastructure

Overall Priority: Medium
  Mitigates Risk of Coastal Flooding: Very High
  Protects Critical Infrastructure: Low
  Protects Areas of Social Vulnerability: Low
  Opportunity for Green Infrastructure: High

LEGEND

Reference Data
☐ Outside of Study Area

Green Infrastructure
Opportunities
▨ Existing Parks

This report was created on April 15, 2014 using the Climate Smart Cities Pilot: New York City site.
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Climate Smart Cities Pilot: New York City
Parcel Report

Parcel ID (BBL): 5052020173   Acres: 1.9   Borough: Staten Island

Mitigate Risk of Coastal Flooding - Priority: Very High

Hurricane Evacuation Zone: 1
Within Hurricane Sandy Storm Surge: Yes
Within Hurricane Irene Storm Surge: Yes
2013 Flood Advisory: High Hazard Zone
2020 Sea-Level Rise: 100-Year Floodplain
2050 Sea-Level Rise: 100-Year Floodplain
Storm Surge Innundation with Hurricane Category: 1

Protect Critical Infrastructure - Priority: Low

Within Emergency Services Buffer Zone: No
Within Health Care Facilities Buffer Zone: No
Within Subway Entrance Buffer Zone: No
Within Transportation Structures Buffer Zone: Yes
Within Railline Buffer Zone: No
Within School Buffer Zone: No

Protect Areas of Social Vulnerability - Priority: Low

Social Vulnerability Index: Medium Low
Percent Children 19 and Under in Census Blockgroup: 0.0
Percent Adults 65 and Older in Census Blockgroup: 0.0
Percent Low Income Households in Census Blockgroup: 0.0
Population Density (res/sqmi): 0.0

Identify Opportunities for Green Infrastructure - Priority: High

Vacant Parcel: Yes
Parcel Size in Acres: 1.9
Under Public Ownership: No
Existing Park: No
Adjacent to a Park: Yes
Has Playground: No
Has Community Garden: No
Cemetery: No
Park Under Construction or Remediation: No
Other Publicly Accessible Waterfront: No
Contains Wetlands: Yes
Within Business Improvement District: No
ParkScore Park Equity Analysis: High Park Need
School Property: No

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Run Data-Driven Parcel Reports

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Green Infrastructure
Schoolyards

Green Alleys

Connective Corridors/
Linear Parks

Community Agriculture

Water-Smart Parks

TPL Green Infrastructure Project Typologies

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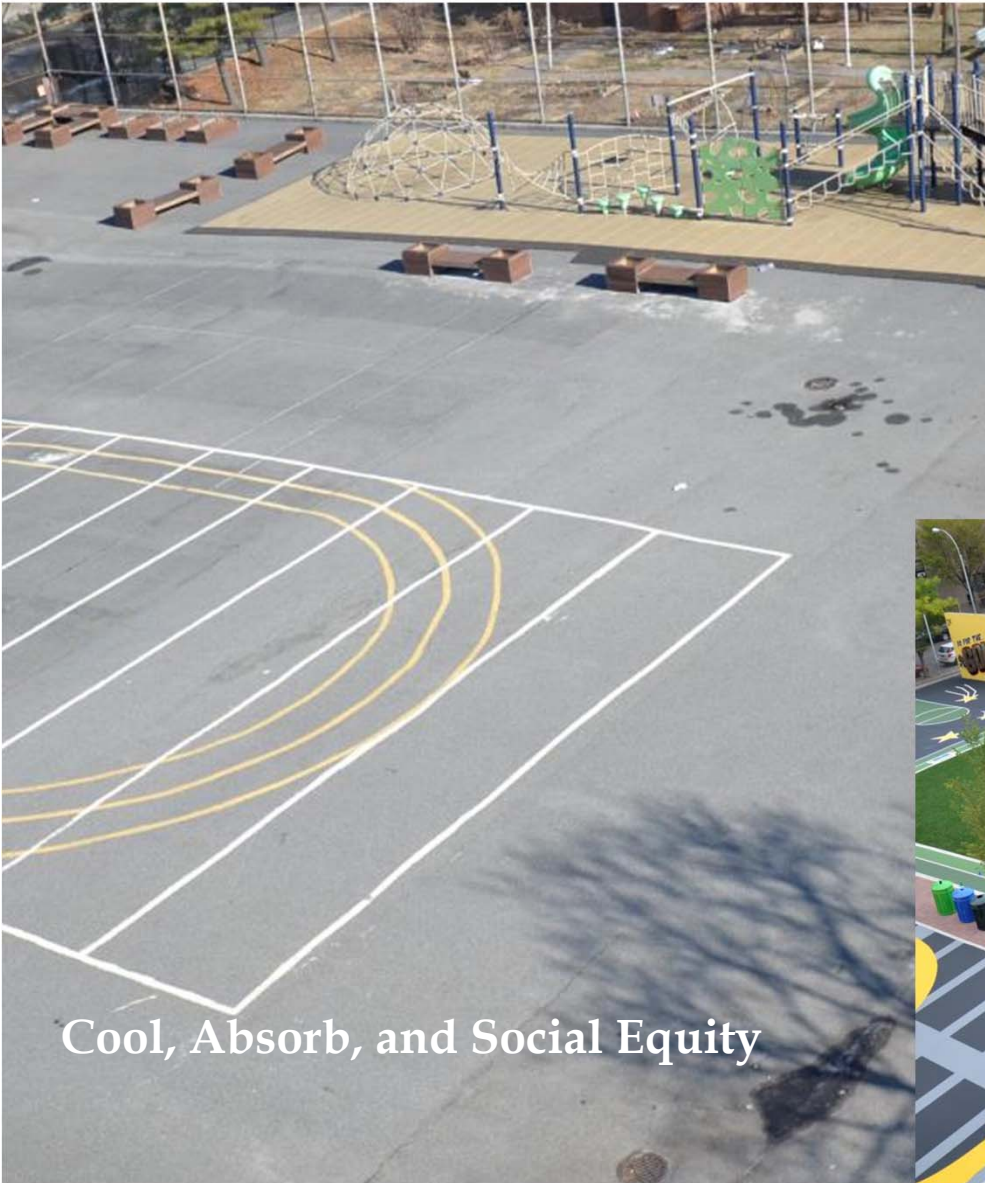# Climate Smart Cities Implementation
Los Angeles, CA
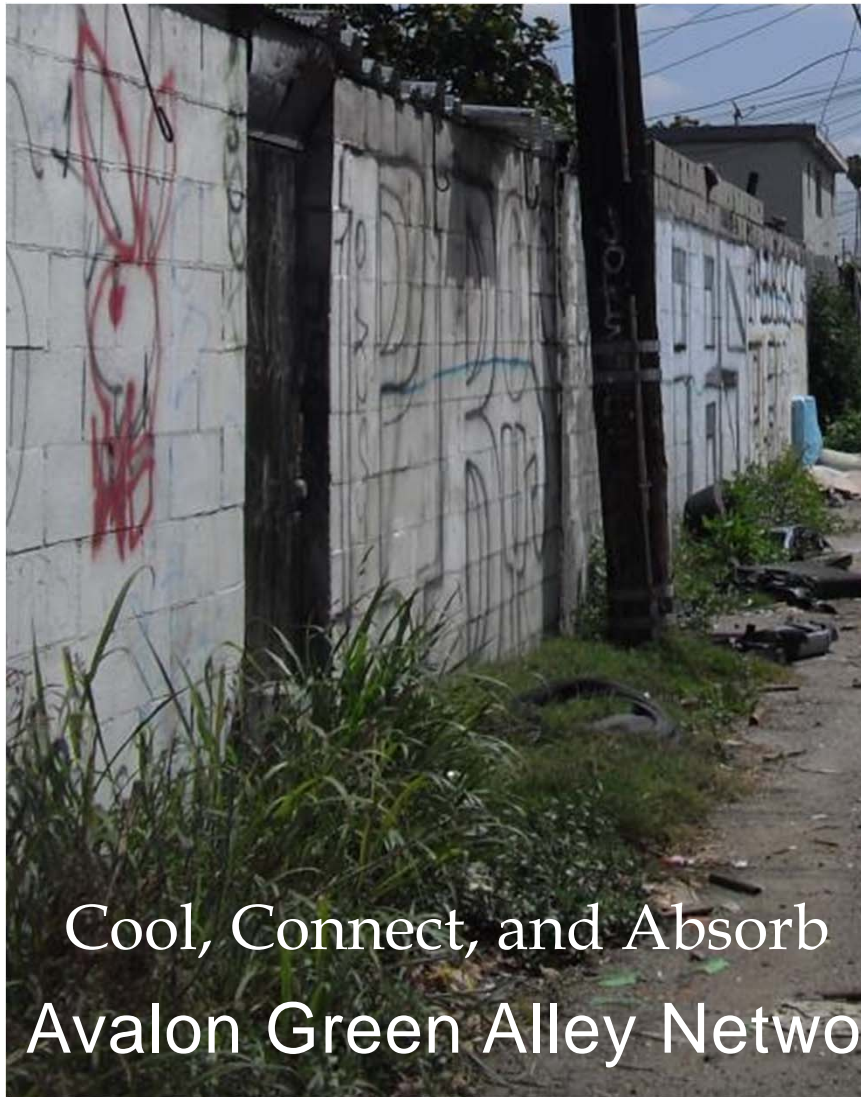
Cool, Connect, and Absorb

Avalon Green Alley Network

Climate Smart Cities Implementation
New York, New York

Cool, Absorb, and Social Equity

Climate Smart Cities Implementation
Providence, RI

Cool, Connect, Absorb, Protect, Social Equity

Climate Smart Cities Implementation
Boston, MA


Garrison Trotter Farm

Garlic, onions, lettuce, arugula, mustard greens, and carrots are thriving on this once vacant and blighted lot. Garrison Trotter is the first by-right farm in Boston under Article 89 and includes a neighborhood community garden plot.

Fowler Clark Farm

This historic 18th century farmhouse and 19th century barn are being reclaimed to bring 21st century urban farming to Mattapan. The project will restore the buildings to their former glory, create a commercial learning farm, and connect the community to local food.
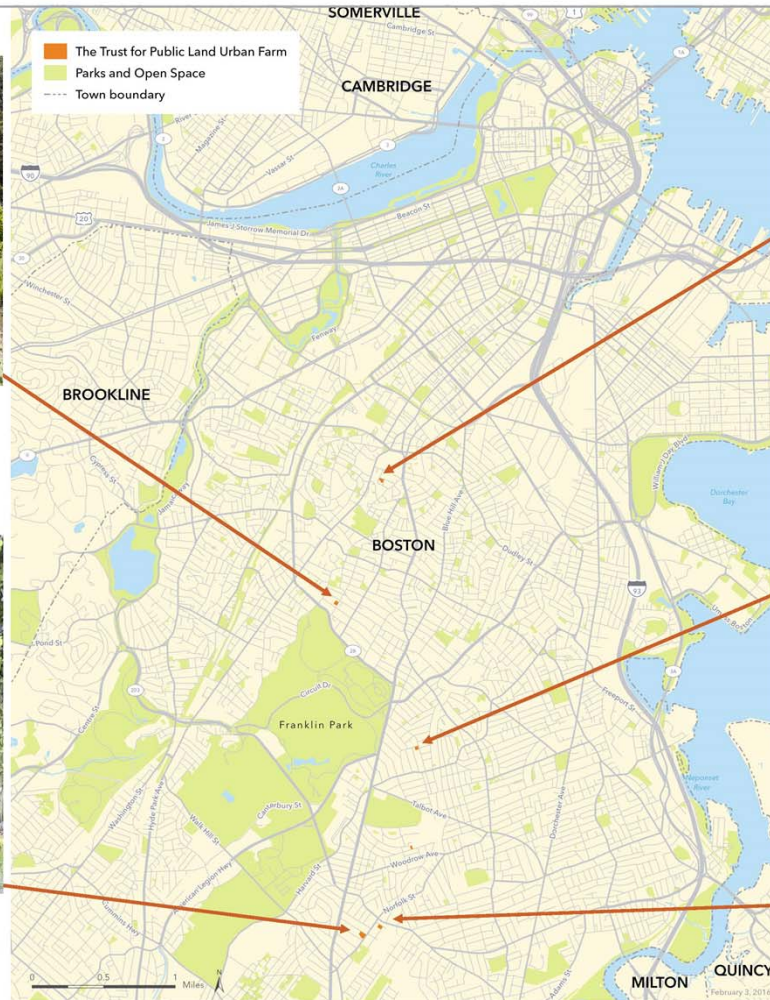
Tommy's Rock Farm

Roxbury residents have long awaited the transformation of Tommy's Rock from gravel and weeds to soil and crops. Farmers will sow their seeds in fertile beds and a greenhouse and neighbors will have access through a small park at the entrance. Farm design is underway and agricultural production is anticipated to begin in spring 2016.

Glenway Farm

Located in the Four Corners neighborhood of Dorchester, passers-by enjoy sunflowers lining the fence and sidewalk along the border of Glenway Farm. Within is a bounty of salad greens, sunflowers, and other healthful produce sold to local restaurants.

Flint Street Farm

We are working with the City to acquire a 0.3-acre vacant lot at the corner of Flint Street to be transformed into a productive working farm and—due to its proximity to the Fowler Clark Farm just a block away—will aggregate Boston's urban farms for efficiency and maximum productivity.

Boston Urban Agriculture Partnership

Climate Smart Cities Implementation
Boston, MA

Boston Climate Story Map- The people's stories on climate.

Vivian Ortiz notes the importance of healthy food and an active lifestyle in her neighborhood, "because we [Mattapan] have higher health disparity rates and she advocates for "more access to walking and biking opportunities," not just for transportation, but also "for fitness, for opportunity, for your wellbeing."

When Noam Rifkind moved to Boston, he settled in East Boston because "I take it as a birthright that I should have access to the water and sea breezes." Conscious of future sea level rise, Noam states that "we are effectively an island so if sea level rises enough that the Blue Line is flooded, we are cut off from the City for months."

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