

# Memorandum



CITY OF DALLAS

DATE January 4, 2018

TO Honorable Members of the Quality of Life, Arts & Culture Committee: Sandy Greyson (chair), Mark Clayton (Vice Chair), Rickey D. Callahan, Jennifer S. Gates, Scot Griggs, B. Adam McGough, Omar Narvaez

SUBJECT Smart Growth for Dallas Initiative

On Monday, January 8, 2018, you will be briefed on the Smart Growth for Dallas Initiative. The briefing materials are attached for your review.

Please feel free to contact me if you have any questions or concerns.

A handwritten signature in blue ink, appearing to read 'Joey Zapata'.

Joey Zapata  
Assistant City Manager

c: Honorable Mayor and Members of City Council  
T.C. Broadnax, City Manager  
Larry Casto, City Attorney  
Craig D. Kinton, City Auditor  
Billierae Johnson, City Secretary (Interim)  
Daniel F. Solis, Administrative Judge  
Kimberly Bizer Tolbert, Chief of Staff to the City Manager  
Majed A. Al-Ghafry, Assistant City Manager

Jo M. (Jody) Puckett, P.E., Assistant City Manager (Interim)  
Jon Fortune, Assistant City Manager  
M. Elizabeth Reich, Chief Financial Officer  
Nadia Chandler Hardy, Chief of Community Services  
Raquel Favela, Chief of Economic Development & Neighborhood Services  
Theresa O'Donnell, Chief of Resilience  
Directors and Assistant Directors

# Smart Growth *for* Dallas Initiative

*Using data and GIS to improve the social, economic,  
and environmental resilience of Dallas*

Quality of Life Committee Briefing  
January 8, 2018



# Agenda

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## I. Program Overview

- *Project Partners*
- *Phase I of Smart Growth Dallas*
- *Project objectives and timeline*
- *Roles and responsibilities of TAT*

## II. Review of Phase 1 Deliverables

- *Citywide Maps and Analysis*
- *High-Priority Opportunities*

## III. Community Engagement (bcWORKSHOP)

## IV. Phase 2 Objectives and Timeline

- *Decision Support Tool*
- *Technical Advisory Team*
- *Project Timeline and Next Steps*

# I. PROGRAM OVERVIEW

*Smart Growth for Dallas*

# About Our Partners

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THE  
TRUST  
FOR  
PUBLIC  
LAND

The Trust for Public Land works across the country to create new parks and protect land for people, ensuring healthy, livable communities for generations to come.

Since our founding in 1972, we've created and protected more than 5,000 special places across the country. More than 7 million people live within a 10-minute walk of a place that we have created or protected. 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.

# About Our Partners

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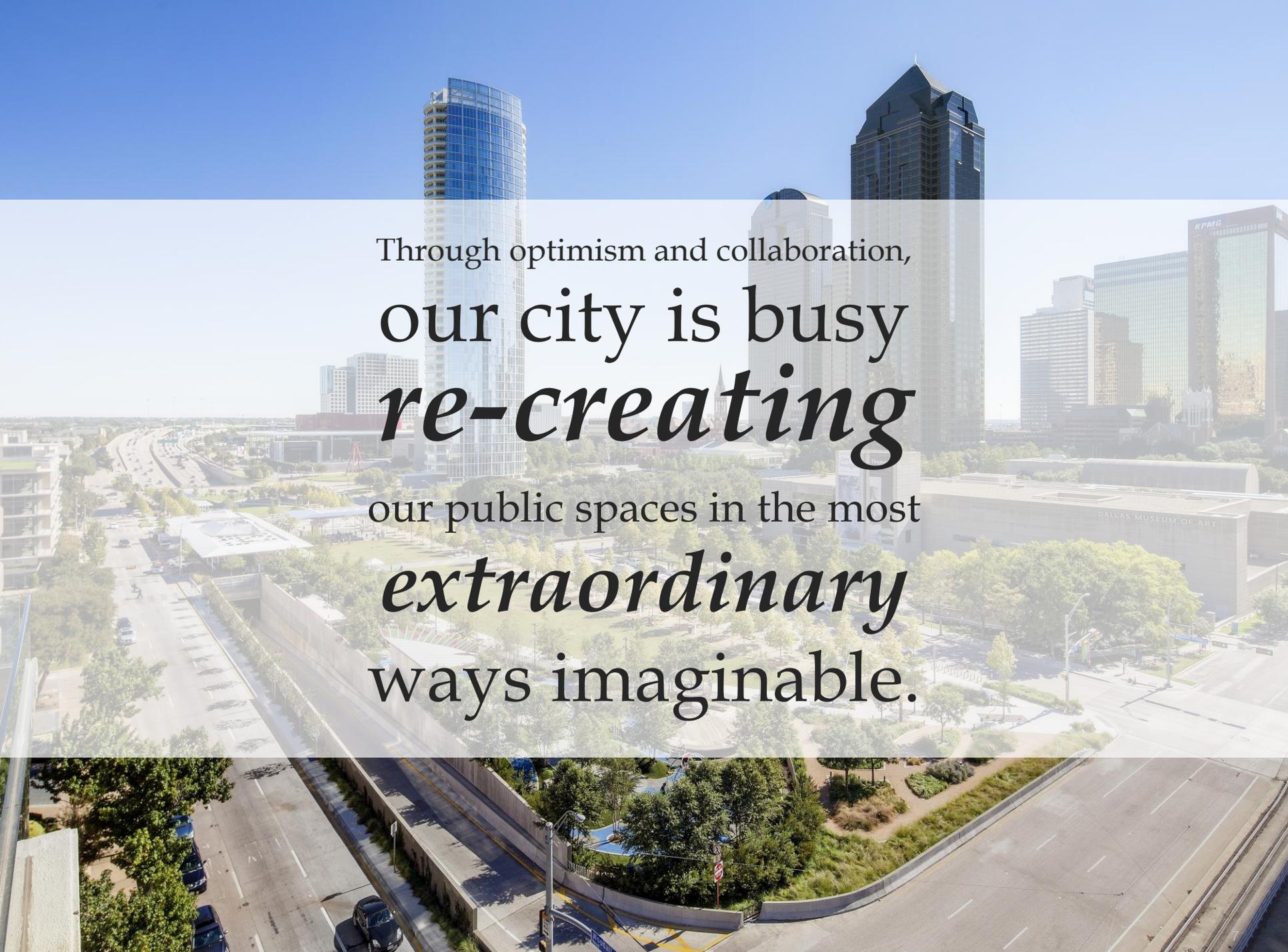


The buildingcommunityWORKSHOP is a Texas based nonprofit community design center seeking to improve the livability and viability of communities through the practice of thoughtful design and making. We enrich the lives of citizens by bringing design thinking to areas of our city where resources are most scarce.



The Texas Trees Foundation preserves, beautifies, and expands parks and other public natural green spaces, public streets, boulevards, and rights-of-way by planting trees and encouraging others to do the same through educational programs that focus on the importance of building and protecting the “urban forest” today as a legacy for generations to come.

WITH A GROWING  
POPULATION AND  
BOOMING ECONOMY,  
DALLAS STANDS ON THE  
CUSP OF A NEW ERA IN ITS  
HISTORY.

An aerial photograph of a city skyline. In the foreground, a multi-lane highway curves through a landscaped area with trees and a pedestrian walkway. In the background, several tall skyscrapers are visible against a clear blue sky. One prominent building has a blue glass facade, and another has a dark, angular top. To the right, a building with a 'KPMG' sign is visible. In the lower right, a large building is labeled 'DALLAS MUSEUM OF ART'. The overall scene depicts a modern, urban environment with a focus on public spaces and infrastructure.

Through optimism and collaboration,  
our city is busy  
*re-creating*  
our public spaces in the most  
*extraordinary*  
ways imaginable.

BUT CHALLENGES STILL REMAIN...

# BUT CHALLENGES STILL REMAIN...

## **THE TEXAS TRIBUNE**

In DFW, Struggle to Save Water and Prepare for Growth



# The Dallas Morning News

**In the wake of Harvey,  
Dallasites are asking: Could  
catastrophic floods happen  
here? Yes**





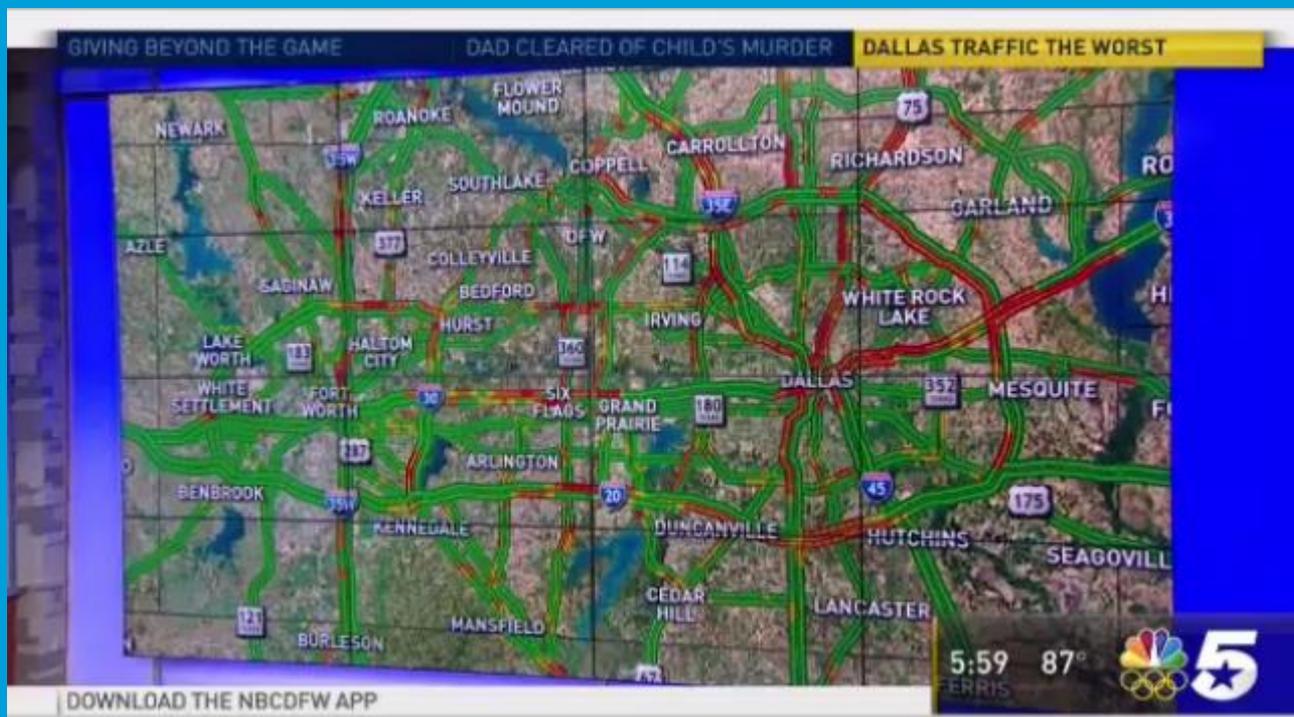
## For The 1 In 5 North Texas Kids In Poverty, It's Harder To Get To The Doctor, Succeed In School

The Beyond ABC report only looks at the well-being of children in parts of North Texas, specifically six counties: Dallas, Collin, Denton, Cooke, Grayson and Fannin

[BILL ZEEBLE, KERA](#) | NOVEMBER 22, 2017, 1:01 PM



# Dallas Ranks in Top 5 for Worst Traffic in U.S.: Study



# Texas Monthly

## Boom With A View

THE PERIL AND PROMISE OF BEING ONE OF THE FASTEST-GROWING CITIES IN TEXAS.

## The Dallas Morning News

### Poverty is eating at Dallas' core

DALLAS  
BUSINESS JOURNAL

### \$1B 'Plan for Growth' in South Dallas



Dallas's green assets offer cost-effective and unique strategies for addressing the city's biggest *economic* *social* and *ecological* challenges of today.

*Introducing:*

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# Smart Growth *for* Dallas

*Using data and GIS to improve the social, economic, and environmental resilience of Dallas*



TEXAS TREES  
FOUNDATION



## A few of our big challenges:

- Retain stormwater runoff
- Cool neighborhoods in the summertime heat
- Protect neighborhoods from flooding
- Safe routes to school and work
- Increase active recreation for residents
- Grow the local economy through rejuvenating forgotten or overlooked areas of the city
- Diversify mobility options through walking and cycling paths
- Clean pollution from the air
- Create a sense of place and community for neighbors

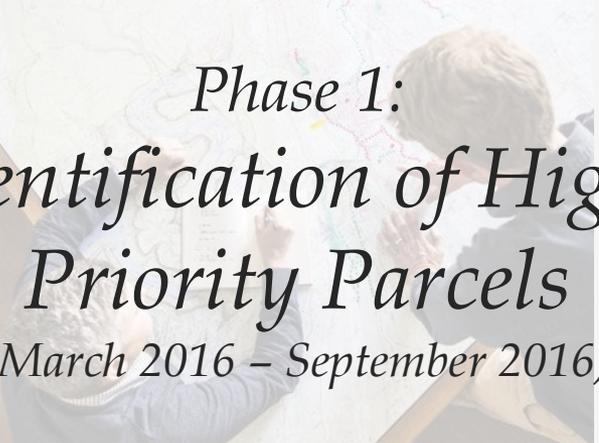
An aerial photograph of a city, likely Dallas, Texas, showing a complex highway interchange and various urban buildings. Overlaid on the image are three overlapping circles. The top circle is orange and contains the text 'Social Challenges'. The bottom-left circle is green and contains the text 'Environmental Challenges'. The bottom-right circle is yellow-green and contains the text 'Economic Challenges'. The circles overlap in the center, creating a central area where all three challenge categories intersect.

**Social  
Challenges**

**Environmental  
Challenges**

**Economic  
Challenges**

# Key Deliverables



*Phase 1:  
Identification of High-  
Priority Parcels  
(March 2016 – September 2016)*



*Community  
Engagement  
(November 2016 – February 2017)*



*Phase 2:  
Interactive Decision  
Support Tool  
(August 2017 – October 2018)*



*Demonstration Project:  
Cool & Connected Oak Cliff*

# Built on local success...

In collaboration with bcWORKSHOP, Texas Trees Foundation, and others, we developed *Smart Growth for Dallas* to be the “next step” that continues the work already underway in Dallas.

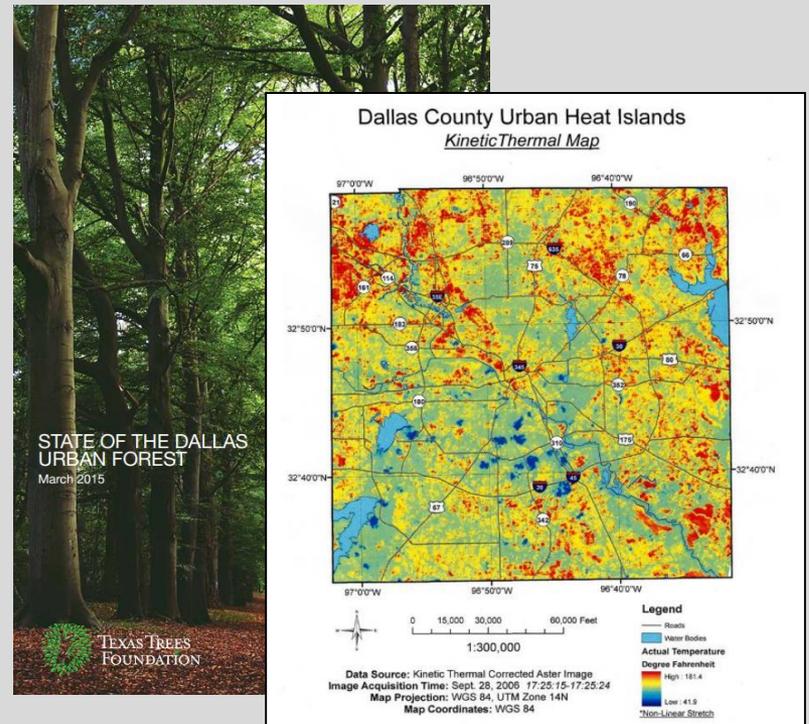
## bcWORKSHOP

### *Race and the Control of Public Parks*



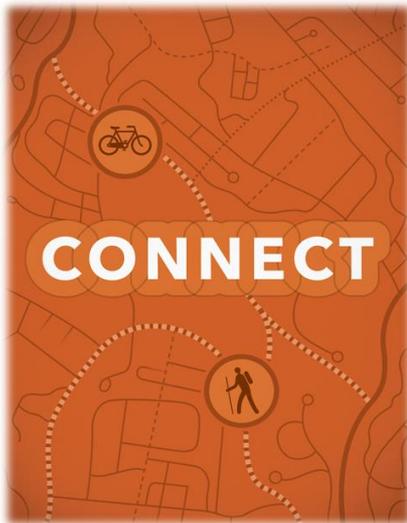
## Texas Trees Foundation

### *State of the Dallas Urban Forest*



# ...using a proven national model.

*Smart Growth for Dallas* deploys The Trust for Public Land's innovative **Climate-Smart Cities** methodology in our local context. This program uses four strategies to help cities improve their climate resiliency:



We've successfully deployed this program in cities across the country, including:

- New York, NY
- Los Angeles, CA
- Boston, MA
- Chattanooga, TN
- New Orleans, LA
- Denver, CO

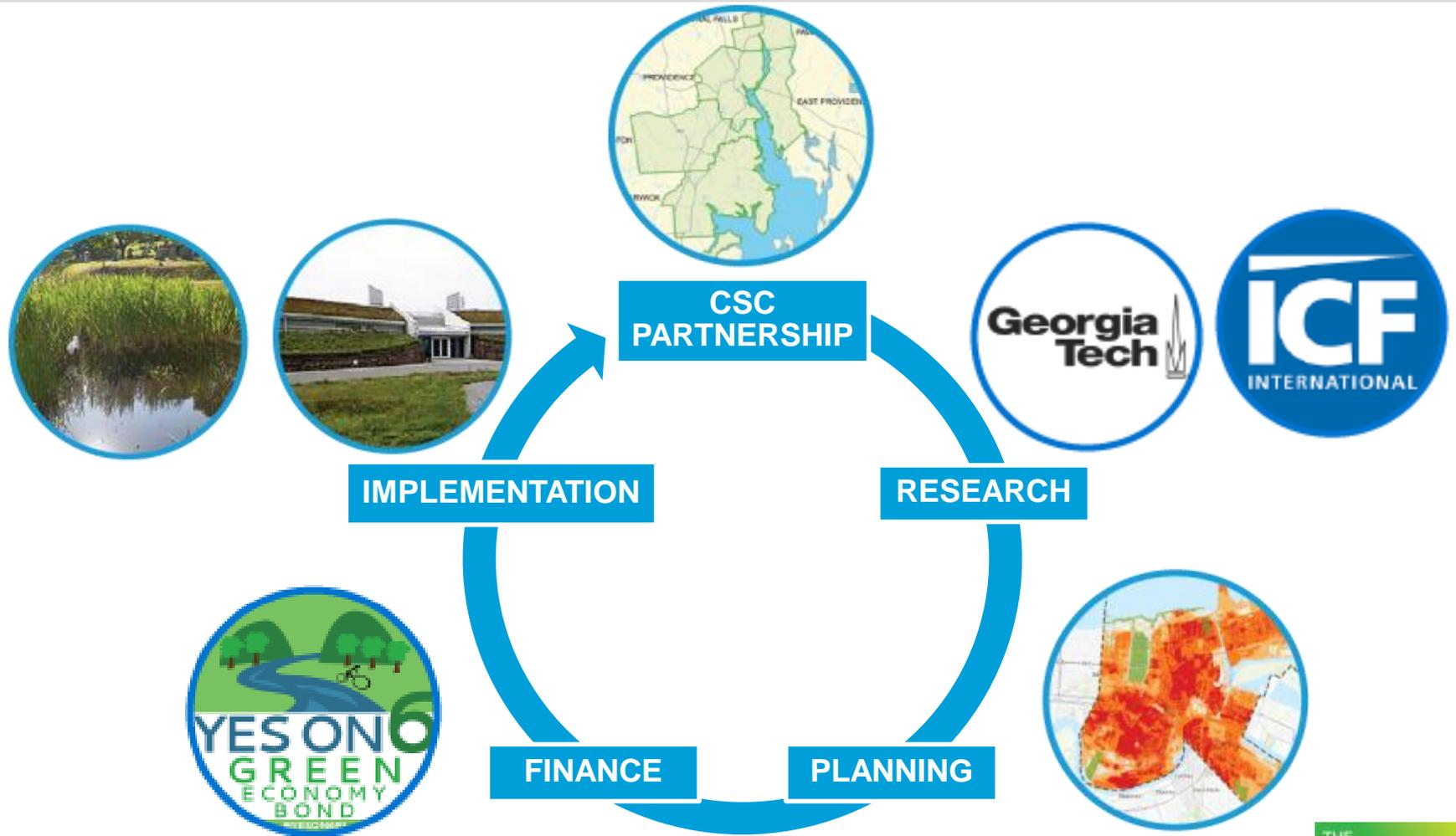


# Climate-Smart Cities Partnerships

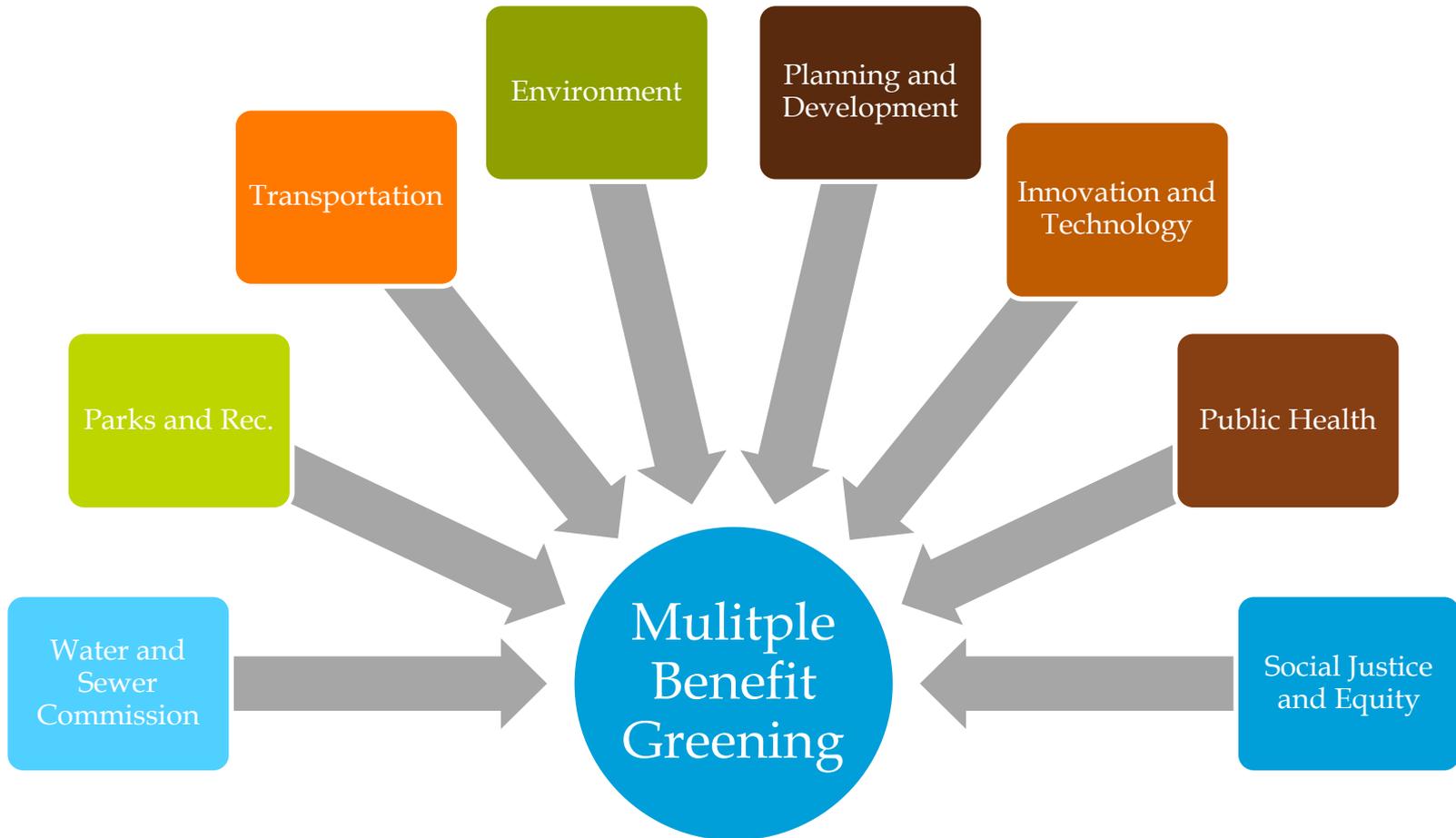


# Our Climate-Smart Cities Framework

# Our Integrated Approach



# Program Objective: Help Dallas identify and prioritize methods to improve its social, economic, and environmental resiliency



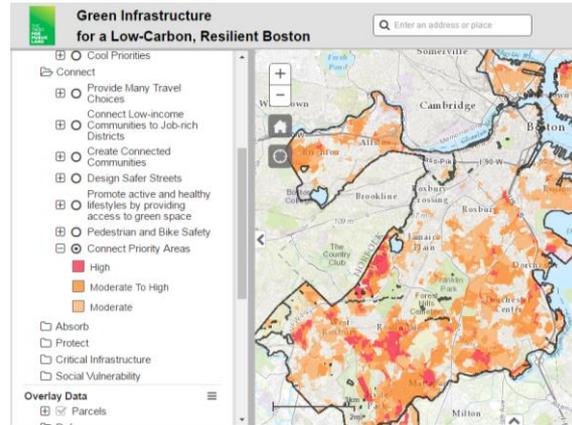
# Cross-sector integration



# Range of implementation opportunities



GI Coalition Building /  
Learning Labs



Policy and Decision Making



GI Project Development



Research



Policy

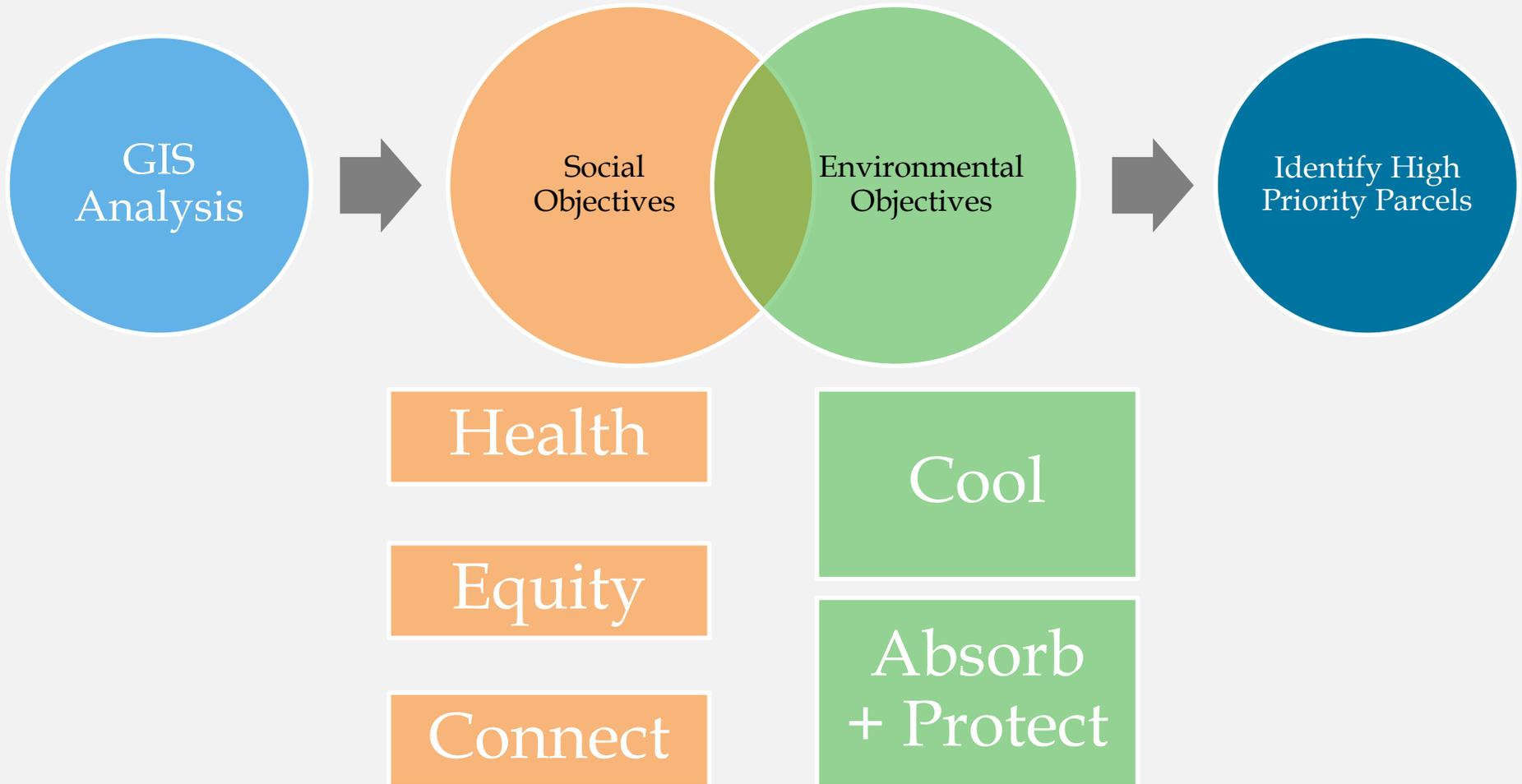


Projects

## II. PHASE 1 DELIVERABLES

*Citywide Maps and Analysis*

# SMART GROWTH FOR DALLAS PHASE I ANALYSIS



# Phase I Environmental Objectives

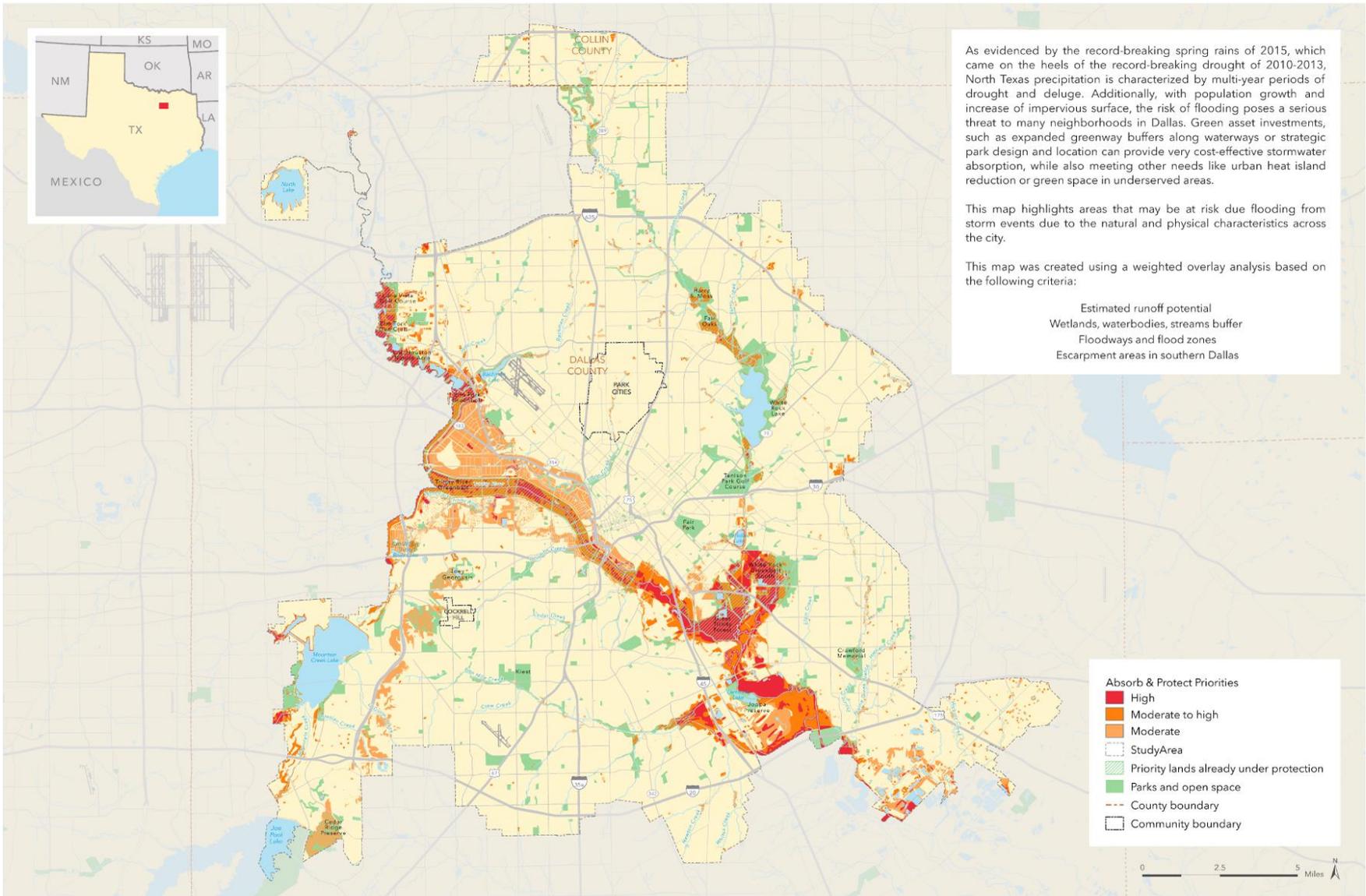
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- ABSORB & PROTECT

Parks and open space can absorb stormwater and serve as a buffer between rivers and surrounding development, providing flood protection. Our analysis identifies locations where green asset investments, such as expanded tree canopy or strategic park design and location can absorb stormwater and protect development from flooding.

- COOL

Well-positioned green space and canopy cover can reduce ambient temperature by 5° to 10° F. Our analysis identifies areas of Dallas where parks and open space can reduce urban heat islands and cool nearby neighborhoods.



As evidenced by the record-breaking spring rains of 2015, which came on the heels of the record-breaking drought of 2010-2013, North Texas precipitation is characterized by multi-year periods of drought and deluge. Additionally, with population growth and increase of impervious surface, the risk of flooding poses a serious threat to many neighborhoods in Dallas. Green asset investments, such as expanded greenway buffers along waterways or strategic park design and location can provide very cost-effective stormwater absorption, while also meeting other needs like urban heat island reduction or green space in underserved areas.

This map highlights areas that may be at risk due flooding from storm events due to the natural and physical characteristics across the city.

This map was created using a weighted overlay analysis based on the following criteria:

- Estimated runoff potential
- Wetlands, waterbodies, streams buffer
- Floodways and flood zones
- Escarpment areas in southern Dallas

**Absorb & Protect Priorities**

- High
- Moderate to high
- Moderate
- Study Area
- Priority lands already under protection
- Parks and open space
- County boundary
- Community boundary

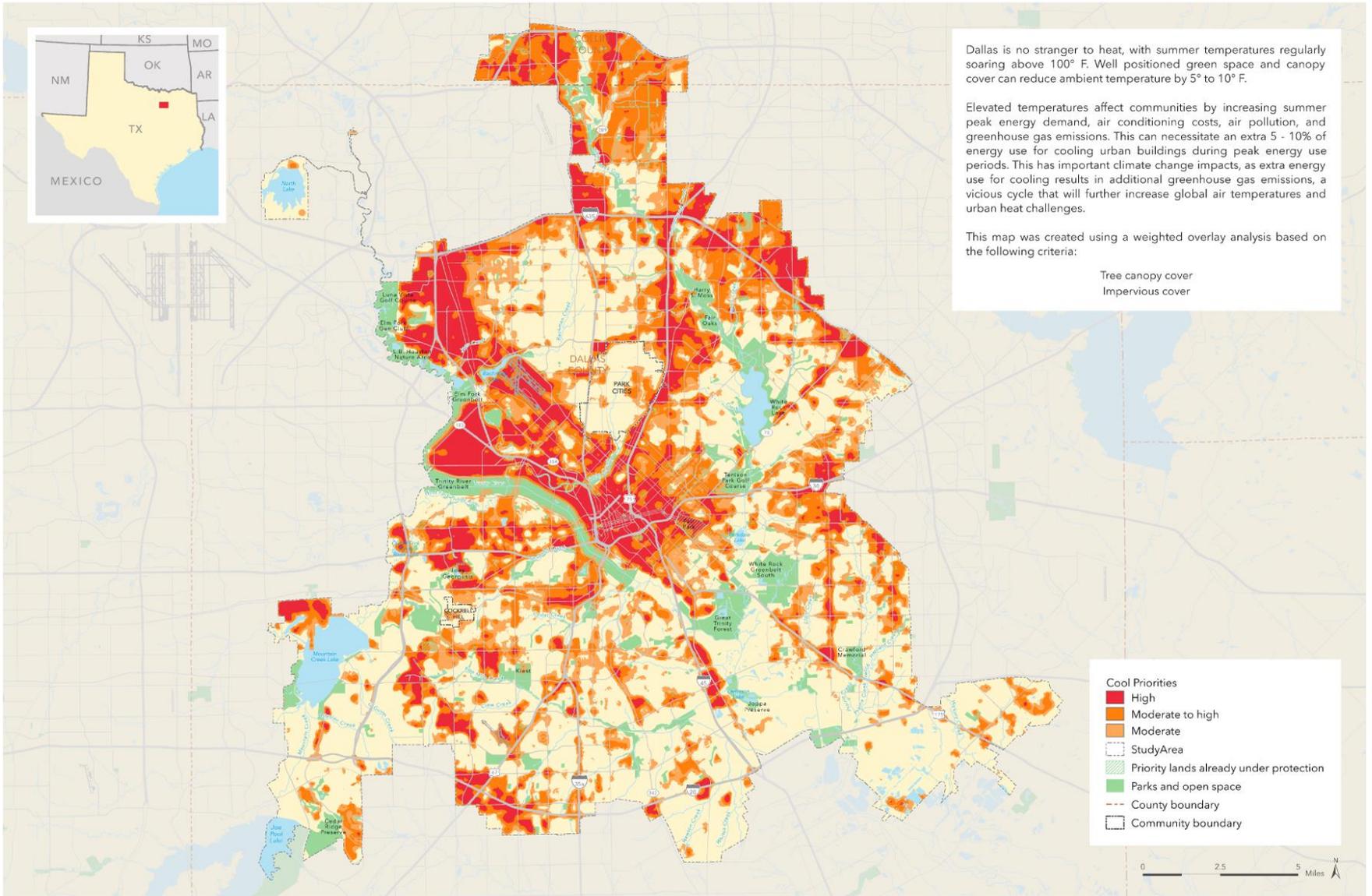


# Absorb & Protect

## CLIMATE-SMART CITIES: SMART GROWTH FOR DALLAS

August 17, 2016. Special thanks to the following data providers: SSURGO2.2 - Natural Resource Conservation Service, North Central TX Council of Govts, National Wetlands Inventory (US Fish and Wildlife Service), Flood Hazard Areas - FEMA, Escarpment Overlay - City of Dallas. Copyright © The Trust for Public Land. The Trust for Public Land and The Trust for Public Land logo are federally registered marks of The Trust for Public Land. Information on this map is provided for purposes of discussion and visualization only. [www.tpl.org](http://www.tpl.org)





# Cool

## CLIMATE-SMART CITIES: SMART GROWTH FOR DALLAS

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# Phase I Social Objectives

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- CONNECT

Many Dallas residents rely on biking paths, greenbelts, and linear parks for their daily transportation needs. Our analysis identifies areas where investments in cycling/pedestrian infrastructure can improve safety and improve connectivity between trails and transit.

- HEALTH

By creating opportunities for active recreation, parks and open spaces are able to improve the health of nearby residents. Our analysis identifies areas of Dallas where parks can help combat diabetes, heart disease, and asthma.

# Phase I Social Objectives *(continued)*

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- EQUITY

Parks are particularly important to neighborhoods with a high prevalence of low-income households, children, senior citizens, and residents with limited English-proficiency. For these groups, parks fill the need for common public space that may not be readily available in their neighborhoods. Our analysis identifies areas of Dallas where parks can provide common public space for these groups.

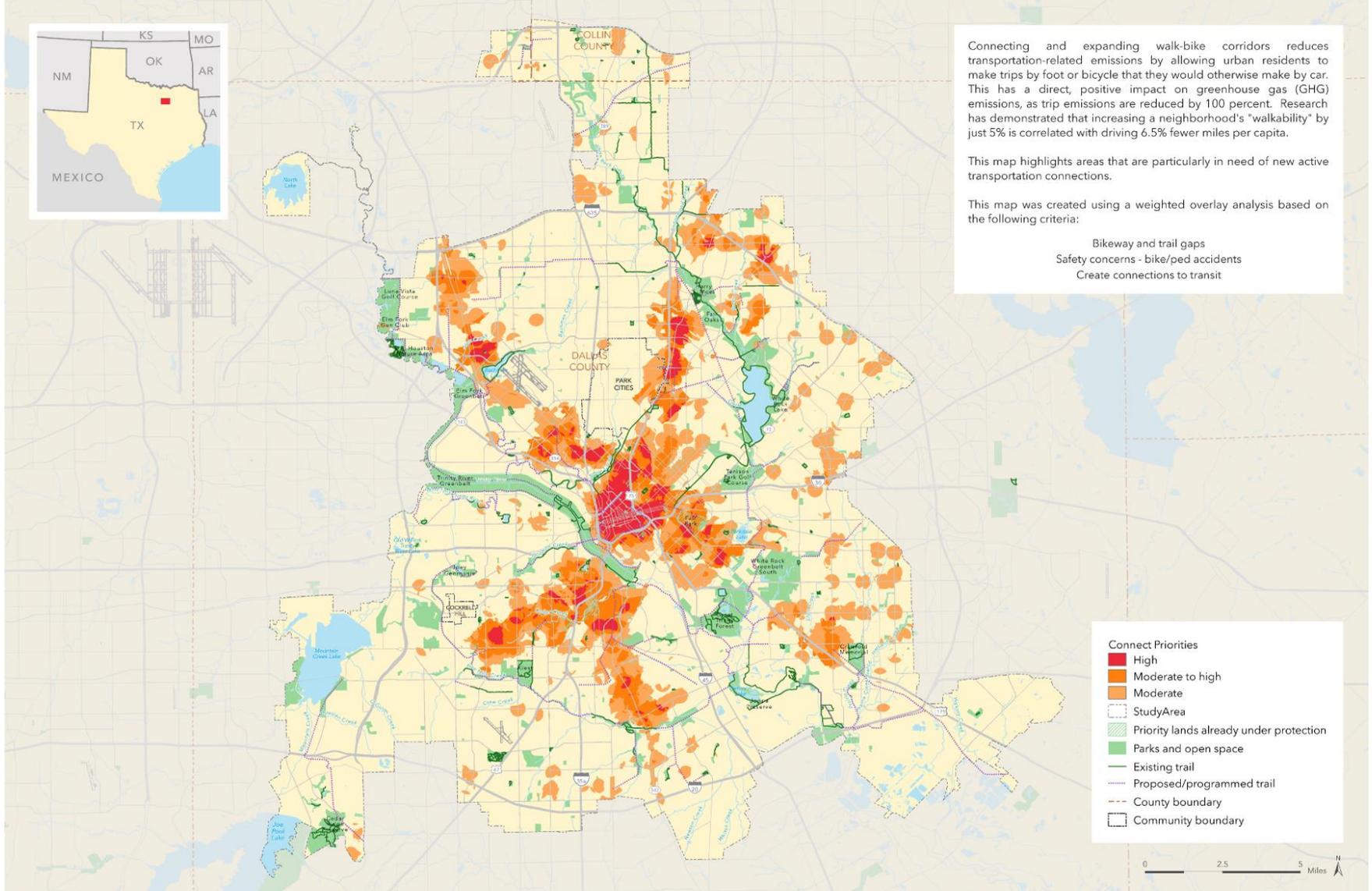


Connecting and expanding walk-bike corridors reduces transportation-related emissions by allowing urban residents to make trips by foot or bicycle that they would otherwise make by car. This has a direct, positive impact on greenhouse gas (GHG) emissions, as trip emissions are reduced by 100 percent. Research has demonstrated that increasing a neighborhood's "walkability" by just 5% is correlated with driving 6.5% fewer miles per capita.

This map highlights areas that are particularly in need of new active transportation connections.

This map was created using a weighted overlay analysis based on the following criteria:

- Bikeway and trail gaps
- Safety concerns - bike/ped accidents
- Create connections to transit



**Connect Priorities**

- High
- Moderate to high
- Moderate
- Study Area
- Priority lands already under protection
- Parks and open space
- Existing trail
- Proposed/programmed trail
- County boundary
- Community boundary

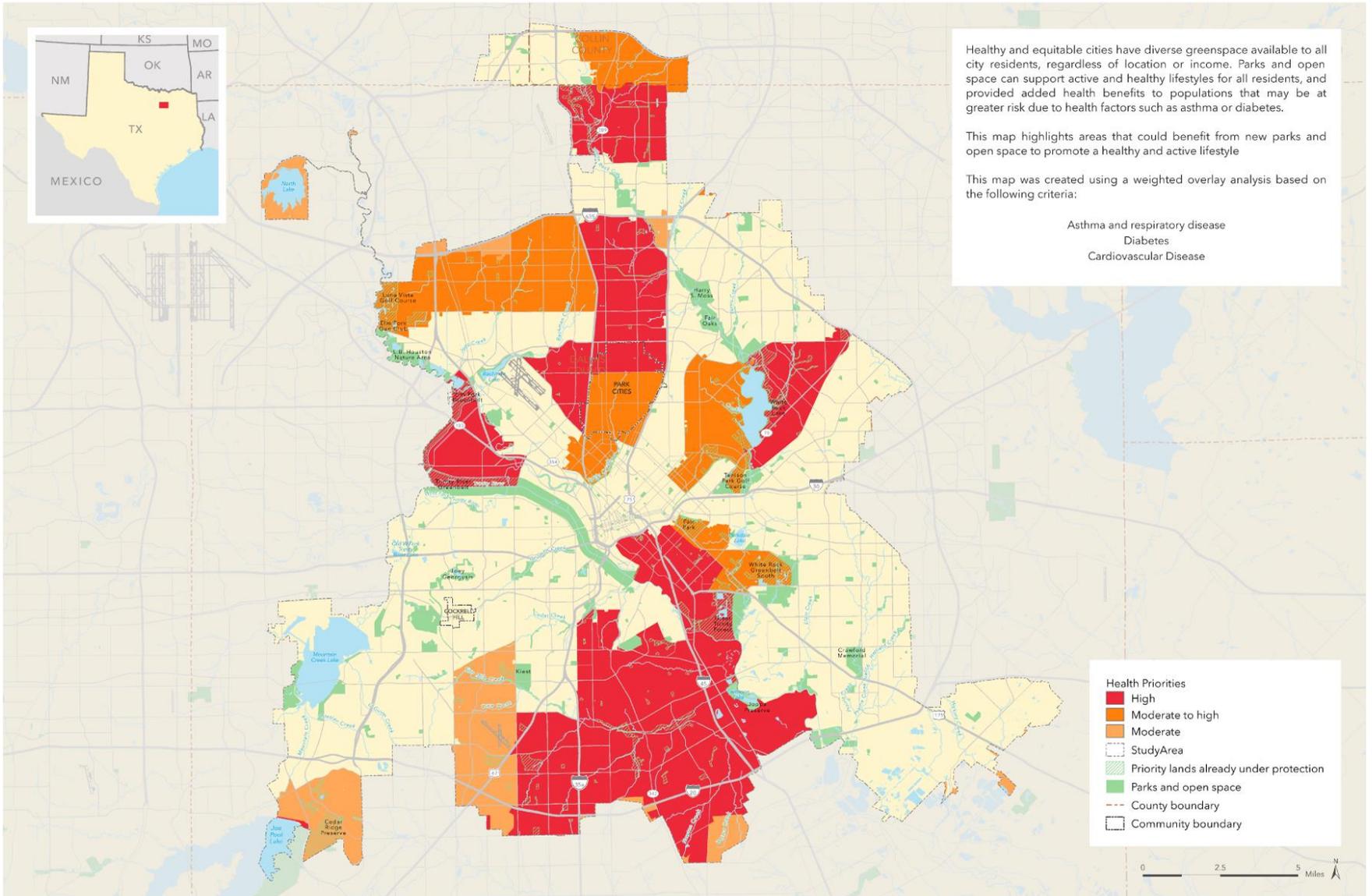


# Connect

## CLIMATE-SMART CITIES: SMART GROWTH FOR DALLAS

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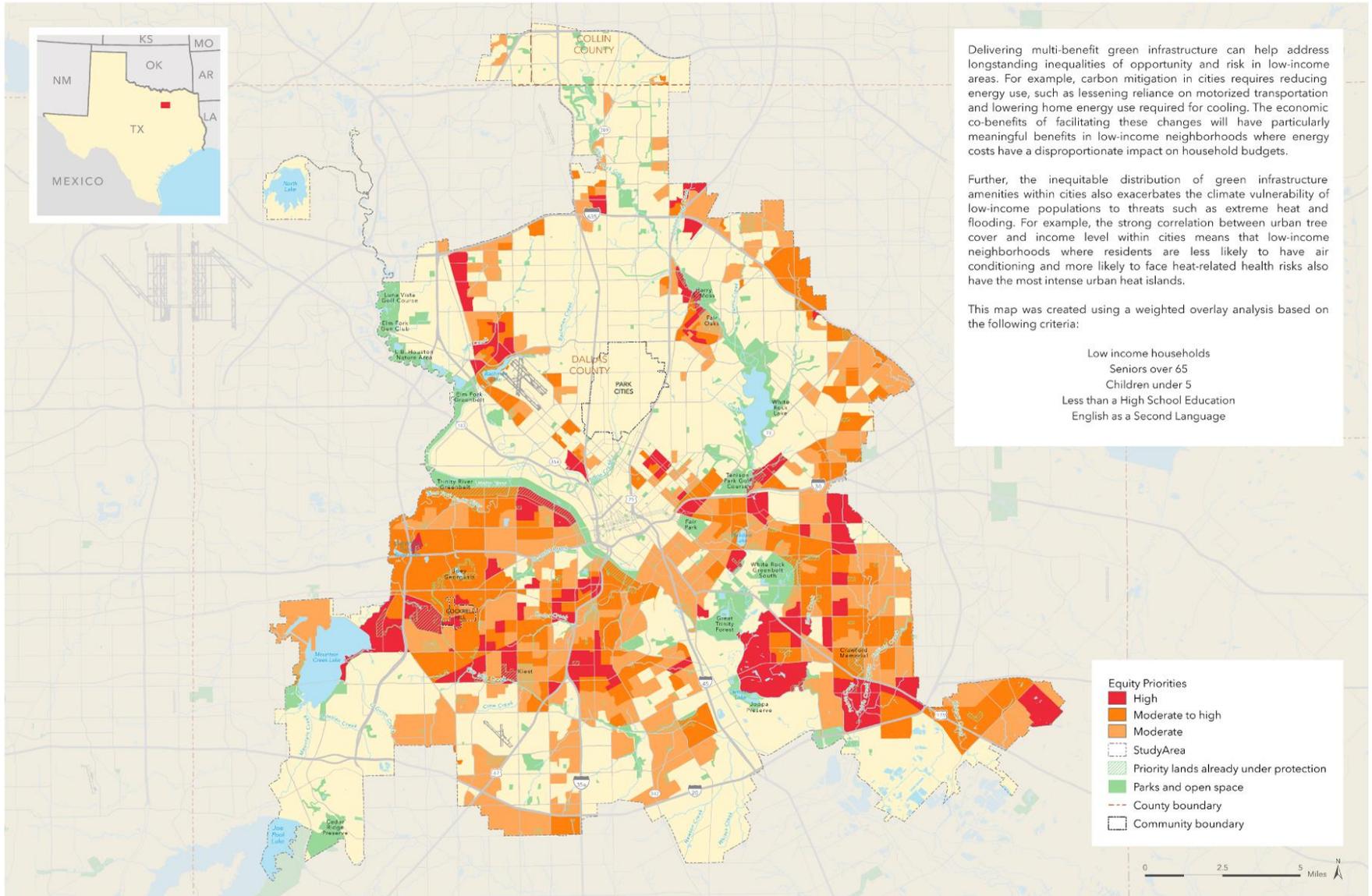




# Health

## CLIMATE-SMART CITIES: SMART GROWTH FOR DALLAS

August 17, 2016. Special thanks to the following data providers: City of Dallas, Truven Disease Prevalence by Zip Code - Parkland Hospital. Copyright © The Trust for Public Land. The Trust for Public Land and The Trust for Public Land logo are federally registered marks of The Trust for Public Land. Information on this map is provided for purposes of discussion and visualization only [www.tpl.org](http://www.tpl.org)



Delivering multi-benefit green infrastructure can help address longstanding inequalities of opportunity and risk in low-income areas. For example, carbon mitigation in cities requires reducing energy use, such as lessening reliance on motorized transportation and lowering home energy use required for cooling. The economic co-benefits of facilitating these changes will have particularly meaningful benefits in low-income neighborhoods where energy costs have a disproportionate impact on household budgets.

Further, the inequitable distribution of green infrastructure amenities within cities also exacerbates the climate vulnerability of low-income populations to threats such as extreme heat and flooding. For example, the strong correlation between urban tree cover and income level within cities means that low-income neighborhoods where residents are less likely to have air conditioning and more likely to face heat-related health risks also have the most intense urban heat islands.

This map was created using a weighted overlay analysis based on the following criteria:

- Low income households
- Seniors over 65
- Children under 5
- Less than a High School Education
- English as a Second Language

**Equity Priorities**

- High
- Moderate to high
- Moderate
- Study Area
- Priority lands already under protection
- Parks and open space
- County boundary
- Community boundary

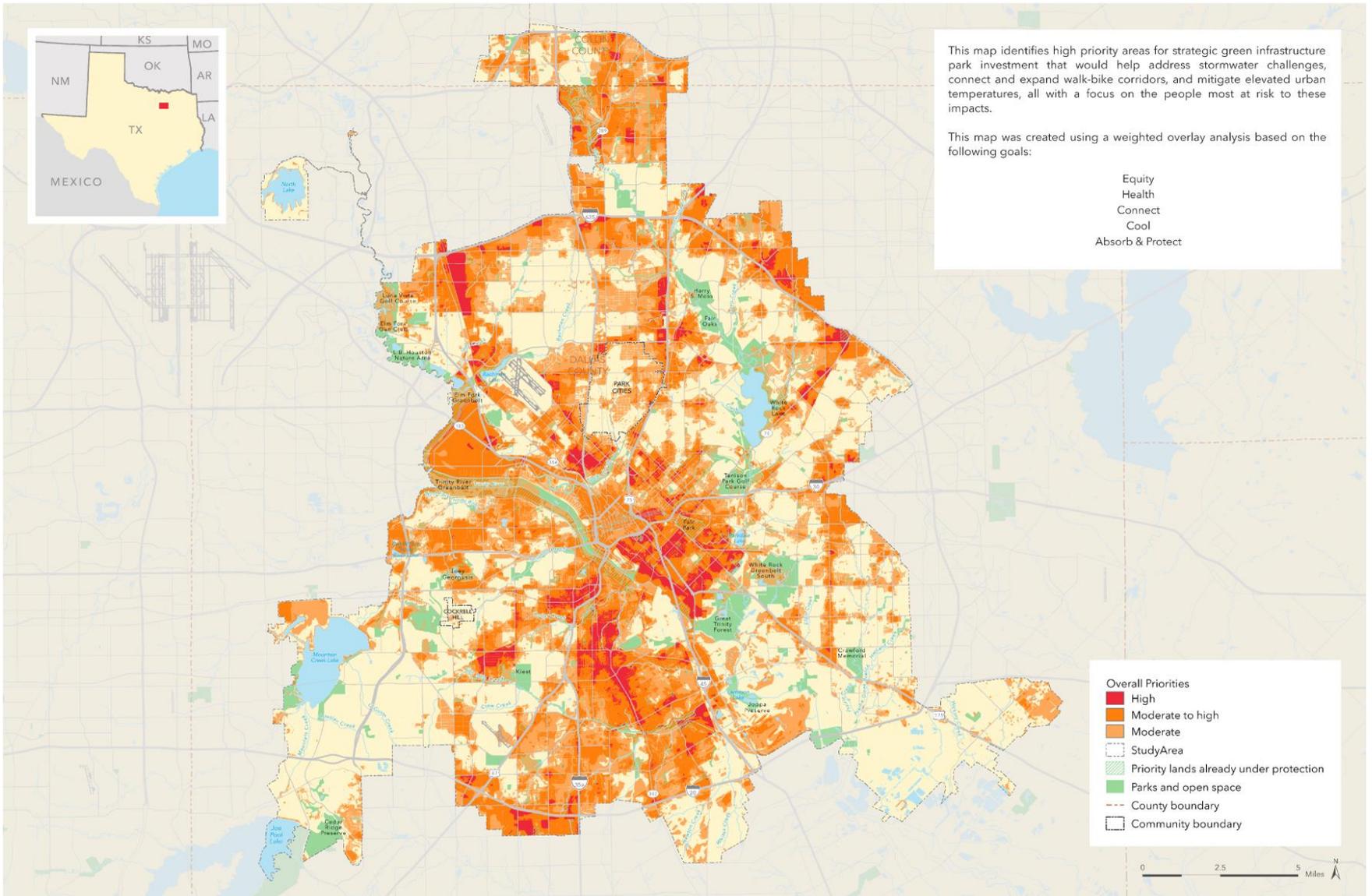


# Equity

## CLIMATE-SMART CITIES: SMART GROWTH FOR DALLAS

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# Overall Priorities

## CLIMATE-SMART CITIES: SMART GROWTH FOR DALLAS

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# Analysis for 315,000 parcels of land

DallasParcelTable

Search Sheet

Home Insert Page Layout Formulas Data Review View

Normal Page Layout Custom Views Ruler Formula Bar Zoom 100% Gridlines Headings Zoom to 100% Unfreeze Panes Freeze Top Row Freeze First Column Split View Record Macro

R1

General Info			Filtering Criteria							Priority Results						
TPL_ID	ObjID	ACCT	Council District	Park Adjacent?	School Parcel?	Publicly Owned?	Park Parcel?	Structure Present?	Park Access?	Vacant Parcel?	Parcel Acres	EQ02: Acres	EQ02: Pct	EQ02?	EQ03: Acres	
73	1	000000010883	12	0	0	0	0	0	1	1	2.288	0.000	0.000	No	0.00	
74	2	000000010892	12	0	0	0	0	0	1	0	4.582	0.000	0.000	No	0.00	
75	3	000000010976	12	0	0	0	0	0	1	0	1.416	0.000	0.000	No	0.00	
80	4	000000011620	12	0	0	0	0	0	1	0	0.808	0.000	0.000	No	0.80	
81	5	000000011621	12	0	0	0	0	0	1	1	0.685	0.000	0.000	No	0.68	
82	6	000000011819	12	0	0	0	0	0	1	0	0.255	0.000	0.000	No	0.00	
83	7	000000011828	12	0	0	0	0	0	1	0	0.263	0.000	0.000	No	0.00	
84	8	000000011837	12	0	0	0	0	0	1	0	0.260	0.000	0.000	No	0.00	
85	9	000000011846	12	0	0	0	0	0	1	0	0.253	0.000	0.000	No	0.00	
86	10	000000011855	12	0	0	0	0	0	1	0	0.256	0.000	0.000	No	0.00	
87	11	000000011864	12	0	0	0	0	0	1	0	0.255	0.000	0.000	No	0.00	
88	12	000000011873	12	0	0	0	0	0	1	0	0.283	0.000	0.000	No	0.00	
89	13	000000011882	12	0	0	0	0	0	1	0	0.294	0.000	0.000	No	0.00	
90	14	000000011891	12	0	0	0	0	0	1	0	0.270	0.000	0.000	No	0.00	
91	15	000000011908	12	0	0	0	0	0	1	0	0.380	0.000	0.000	No	0.00	
92	16	000000011917	12	0	0	0	0	0	1	0	0.351	0.000	0.000	No	0.00	
93	17	000000011926	12	0	0	0	0	0	1	0	0.341	0.000	0.000	No	0.00	
94	18	000000011935	12	0	0	0	0	0	1	0	0.370	0.000	0.000	No	0.00	
95	19	000000011944	12	0	0	0	0	0	1	0	0.444	0.000	0.000	No	0.00	
96	20	000000011953	12	0	0	0	0	0	1	0	0.368	0.000	0.000	No	0.00	
97	21	000000011962	12	0	0	0	0	0	1	0	0.317	0.000	0.000	No	0.00	
98	22	000000011971	12	0	0	0	0	0	1	0	0.393	0.000	0.000	No	0.00	
99	23	000000011980	12	0	0	0	0	0	1	0	0.320	0.000	0.000	No	0.00	
100	24	000000011999	12	0	0	0	0	0	1	0	0.321	0.000	0.000	No	0.00	
101	25	000000012006	12	0	0	0	0	0	1	0	0.303	0.000	0.000	No	0.00	
102	26	000000012015	12	0	0	0	0	0	1	0	0.339	0.000	0.000	No	0.00	
103	27	000000012024	12	0	0	0	0	0	1	0	0.317	0.000	0.000	No	0.00	
104	28	000000012033	12	0	0	0	0	0	1	0	0.268	0.000	0.000	No	0.00	
105	29	000000012042	12	0	0	0	0	0	1	0	0.286	0.000	0.000	No	0.00	
106	30	000000012051	12	0	0	0	0	0	1	0	0.303	0.000	0.000	No	0.00	
107	31	000000012060	12	0	0	0	0	0	1	0	0.304	0.000	0.000	No	0.05	
108	32	000000012079	12	0	0	0	0	0	1	0	0.223	0.000	0.000	No	0.05	

DallasParcelTable

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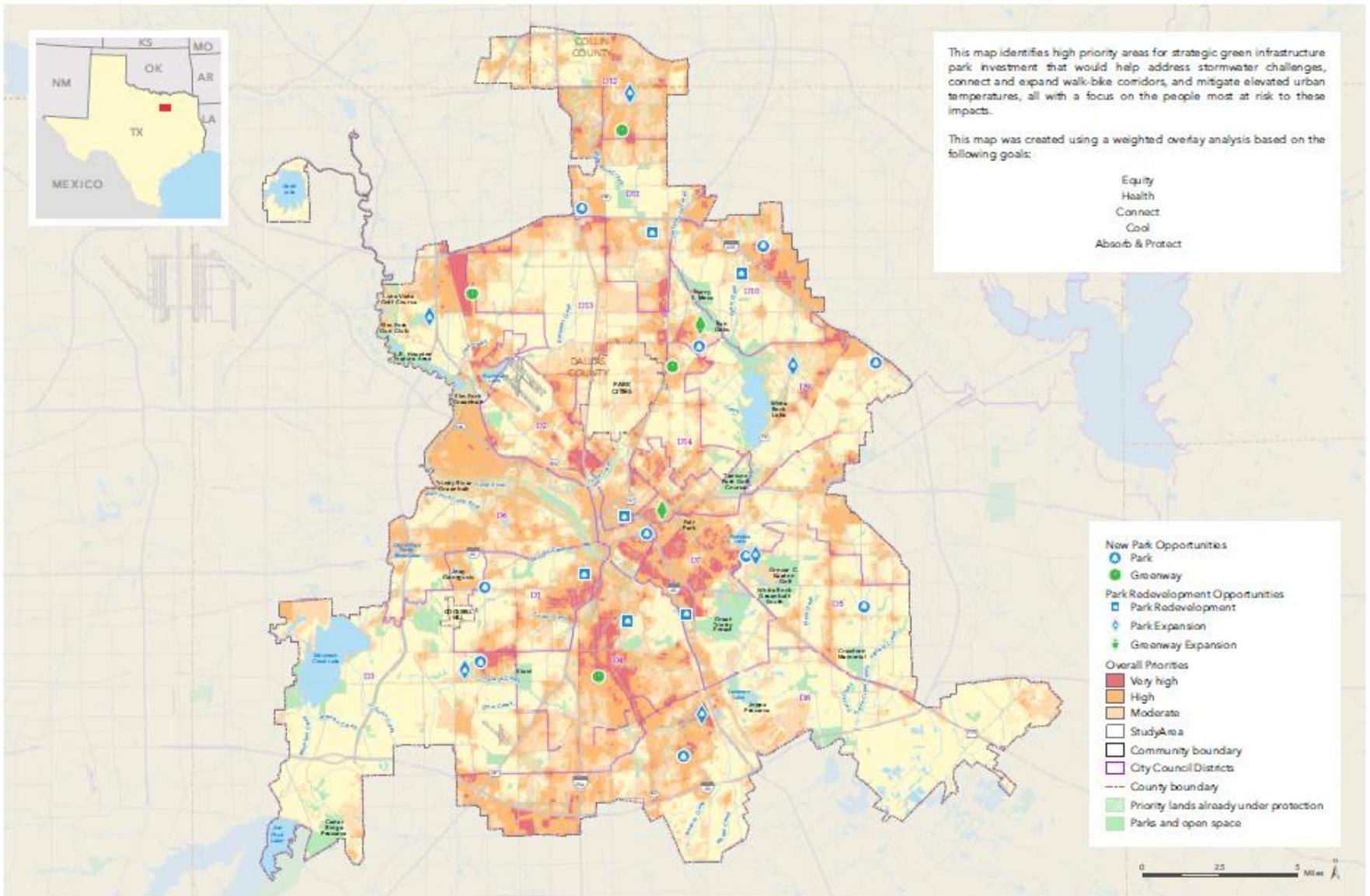
# II. PHASE 1 DELIVERABLES

## *High-Priority Opportunities*

# How much land is available for parks?

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- We identified over 3,500 acres of land that we consider “high opportunity” for new park development.
  - 1,600 acres are publicly owned (City of Dallas, DART, etc.)
  - 1,900 acres are privately owned
  - All land is considered vacant
  - In areas currently underserved by parks
- The county appraisal districts value the privately-owned land at \$117 million.
- If we consider just the five largest park creation opportunities in each council district, we have identified 669 acres of land, valued at \$52 million.



# Overall Priorities & Illustrative Opportunities

## CLIMATE-SMART CITIES: SMART GROWTH FOR DALLAS

September 8, 2016. Special thanks to the following data providers: US Bureau of the Census/AACS, Parkland Hospital, City of Dallas, Texas Dept. of Transportation, Dallas Area Rapid Transit, Natural Resource Conservation Service/RS2REGO 2.2, USFWS, FEMA, Texas Trees Foundation. Copyright © The Trust for Public Land. The Trust for Public Land and the Trust for Public Land logo are federally registered marks of The Trust for Public Land. Information on this map is provided for purposes of discussion and visualization only. [www.tpl.org](http://www.tpl.org)

# Data-informed and strategic decisions

## Smart Growth for Dallas

### Parcel Report

July 27, 2016

Page 1 of 2



Parcel ID: 00000566111000000 Acres: 6.78  
 Address: 1503 N PRAIRIE CREEK RD Zip Code: 75217 Council District: 5

#### Parcel Filtering Criteria

City Owned: Yes	Already a Park: No
Structure Present: No	Vacant Parcel: Yes
Owner: DALLAS CITY OF	Public Ownership: Yes

Overall Stacked Priorities	Acres	Percent	Present
Stacked Priorities	1.549185	0.228426	Yes



**Legend**

- Selected Parcel
- Other Parcels in this Potential Opportunity
- Other Parcels

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## Smart Growth for Dallas

### Parcel Report

July 27, 2016

Page 2 of 2



Parcel ID: 00000566111000000 Acres: 6.78  
 Address: 1503 N PRAIRIE CREEK RD ZIP Code: 75217

Goal: Equity	Acres	Percent	Present
Low Income Households	0	0%	No
Seniors over 65	0	0%	No
Children Under 5	6.781987	100%	Yes
People with Less Than a High School Education	6.781987	100%	Yes
English as a Second Language	6.781987	100%	Yes
<b>Equity Priority Areas</b>	<b>6.781987</b>	<b>100%</b>	<b>Yes</b>

Goal: Health	Acres	Percent	Present
Respiratory Disease	0	0%	No
Diabetes	0	0%	No
Cardiovascular Disease	0	0%	No
<b>Health Priority Areas</b>	<b>0</b>	<b>0%</b>	<b>No</b>

Goal: Connect	Acres	Percent	Present
Bikeway and Trail Gaps	6.781987	100%	Yes
Bicycle and Pedestrian Safety	0	0%	No
Create Connections to Transit	0	0%	No
<b>Connect Priority Areas</b>	<b>0</b>	<b>0%</b>	<b>No</b>

Goal: Absorb & Protect	Acres	Percent	Present
Stormwater Runoff Potential	3.311813	48.83%	Yes
Wetlands, Waterbodies and Stream Buffers	3.208534	47.31%	Yes
Flood Zones	0.036721	0.54%	Yes
Escarpment Areas in South Dallas	0	0%	No
<b>Absorb &amp; Protect Priority Areas</b>	<b>0.445247</b>	<b>6.57%</b>	<b>Yes</b>

Goal: Cool	Acres	Percent	Present
Tree Canopy Cover	3.474764	51.24%	Yes
Impervious Cover	0.25246	3.72%	Yes
<b>Cool Priority Areas</b>	<b>0.25246</b>	<b>3.72%</b>	<b>Yes</b>

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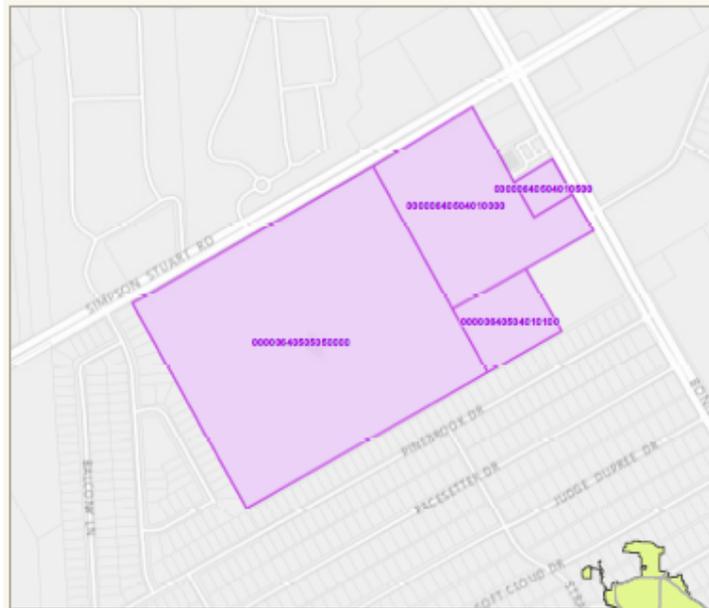


# Finding land for new parks

## Smart Growth for Dallas Multi-Parcel Report



New Park Development Opportunity Info	
Council District:	8
Number of Parcels in this Opportunity:	4
Total Acres in this Opportunity:	58.34



Legend	New Park Development Opportunity Parcels	Other Parcels

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## Smart Growth for Dallas Parcel Report



July 27, 2016 Page 2 of 2

Parcel ID:	00000640504010000	Acres:	13.03
Address:	3380 SIMPSON STUART RD	ZIP Code:	75241

Goal: Equity	Acres	Percent	Present
Low Income Households	13.034586	100%	Yes
Seniors over 65	13.034586	100%	Yes
Children Under 5	0	0%	No
People with Less Than a High School Education	13.034586	100%	Yes
English as a Second Language	0	0%	No
<b>Equity Priority Areas</b>	<b>13.034586</b>	<b>100%</b>	<b>Yes</b>

Goal: Health	Acres	Percent	Present
Respiratory Disease	13.034586	100%	Yes
Diabetes	13.034586	100%	Yes
Cardiovascular Disease	13.034586	100%	Yes
<b>Health Priority Areas</b>	<b>13.034586</b>	<b>100%</b>	<b>Yes</b>

Goal: Connect	Acres	Percent	Present
Bikeway and Trail Gaps	13.034586	100%	Yes
Bicycle and Pedestrian Safety	0	0%	No
Create Connections to Transit	0	0%	No
<b>Connect Priority Areas</b>	<b>8.548851</b>	<b>65.59%</b>	<b>Yes</b>

Goal: Absorb & Protect	Acres	Percent	Present
Stormwater Runoff Potential	12.713028	97.53%	Yes
Wetlands, Waterbodies and Stream Buffers	0	0%	No
Flood Zones	0	0%	No
Excavation Areas in South Dallas	0	0%	No
<b>Absorb &amp; Protect Priority Areas</b>	<b>0</b>	<b>0%</b>	<b>No</b>

Goal: Cool	Acres	Percent	Present
Tree Canopy Cover	13.034586	100%	Yes
Impervious Cover	0	0%	No
<b>Cool Priority Areas</b>	<b>5.308005</b>	<b>40.72%</b>	<b>Yes</b>

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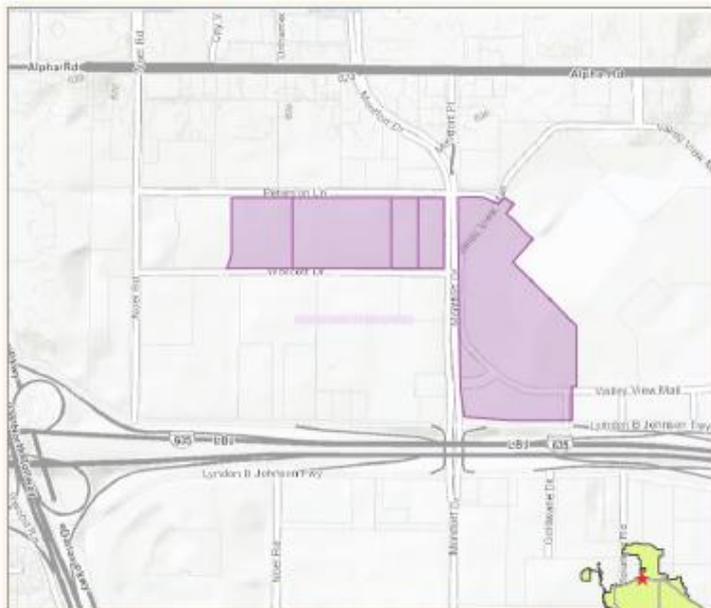
# Evaluating current park proposals

## Smart Growth for Dallas

### Multi-Parcel Report



**New Park Development Opportunity Info**  
 Council District: 11  
 Number of Parcels in this Opportunity: 5    Total Acres in this Opportunity: 35.78



**Legend**  
 New Park Development Opportunity Parcels  
 Other Parcels

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## Smart Growth for Dallas

### Parcel Report

September 6, 2016

Page 2 of 2



Parcel ID: 00000463264000000    Acres: 4.49  
 Address: 5444 PETERSON LN    ZIP Code: 75240

Goal: Equity	Acres	Percent	Present
Low Income Households	0	0%	No
Seniors over 65	0	0%	No
Children Under 5	0	0%	No
People with Less Than a High School Education	0	0%	No
English as a Second Language	4.49	100%	Yes
<b>Equity Priority Areas</b>	<b>4.49</b>	<b>100%</b>	<b>Yes</b>

Goal: Health	Acres	Percent	Present
Respiratory Disease	0	0%	No
Diabetes	0	0%	No
Cardiovascular Disease	0	0%	No
<b>Health Priority Areas</b>	<b>0</b>	<b>0%</b>	<b>No</b>

Goal: Connect	Acres	Percent	Present
Bikeway and Trail Gaps	4.49	100%	Yes
Bicycle and Pedestrian Safety	1.57	34.9%	Yes
Create Connections to Transit	0	0%	No
<b>Connect Priority Areas</b>	<b>3.15</b>	<b>70.0%</b>	<b>Yes</b>

Goal: Absorb & Protect	Acres	Percent	Present
Stormwater Runoff Potential	4.49	100%	Yes
Wetlands, Waterbodies and Stream Buffers	0	0%	No
Flood Zones	0	0%	No
Escarpment Areas in South Dallas	0	0%	No
<b>Absorb &amp; Protect Priority Areas</b>	<b>0</b>	<b>0%</b>	<b>No</b>

Goal: Cool	Acres	Percent	Present
Tree Canopy Cover	4.49	100%	Yes
Impervious Cover	4.49	100%	Yes
<b>Cool Priority Areas</b>	<b>4.49</b>	<b>100%</b>	<b>Yes</b>

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# Connect trails to transit and other destinations

## Smart Growth for Dallas

### Parcel Report

July 27, 2016

Page 1 of 2



Parcel ID: 00000476539000000 Acres: 4.21  
 Address: 405 E OVERTON RD Zip Code: 75216 Council District: 4

Parcel Filtering Criteria	
City Owned: No	Already a Park: No
Structure Present: No	Vacant Parcel: Yes
Owner: THE TURNER CORPORATION	Public Ownership: No

Overall Stacked Priorities	Acres	Percent	Present
Stacked Priorities	4.209193	1	Yes



**Legend**

- Selected Parcel (purple square)
- Other Parcels In this Potential Opportunity (pink outline)
- Other Parcels (blue outline)

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## Smart Growth for Dallas

### Parcel Report

July 27, 2016

Page 2 of 2



Parcel ID: 00000476539000000 Acres: 4.21  
 Address: 405 E OVERTON RD Zip Code: 75216

Goal: Equity	Acres	Percent	Present
Low Income Households	4.209193	100%	Yes
Seniors over 65	0	0%	No
Children Under 5	0	0%	No
People with Less Than a High School Education	4.209193	100%	Yes
English as a Second Language	4.209193	100%	Yes
Equity Priority Areas	4.209193	100%	Yes

Goal: Health	Acres	Percent	Present
Respiratory Disease	4.209193	100%	Yes
Diabetes	4.209193	100%	Yes
Cardiovascular Disease	4.209193	100%	Yes
Health Priority Areas	4.209193	100%	Yes

Goal: Connect	Acres	Percent	Present
Bikeway and Trail Gaps	4.209193	100%	Yes
Bicycle and Pedestrian Safety	0	0%	No
Create Connections to Transit	0	0%	No
Connect Priority Areas	0	0%	No

Goal: Absorb & Protect	Acres	Percent	Present
Stormwater Runoff Potential	4.209193	100%	Yes
Wetlands, Waterbodies and Stream Buffers	0	0%	No
Flood Zones	0	0%	No
Escarpment Areas in South Dallas	0	0%	No
Absorb & Protect Priority Areas	0	0%	No

Goal: Cool	Acres	Percent	Present
Tree Canopy Cover	2.366087	56.21%	Yes
Impervious Cover	0	0%	No
Cool Priority Areas	0	0%	No

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# Expand and re-imagine existing parks

## Smart Growth for Dallas

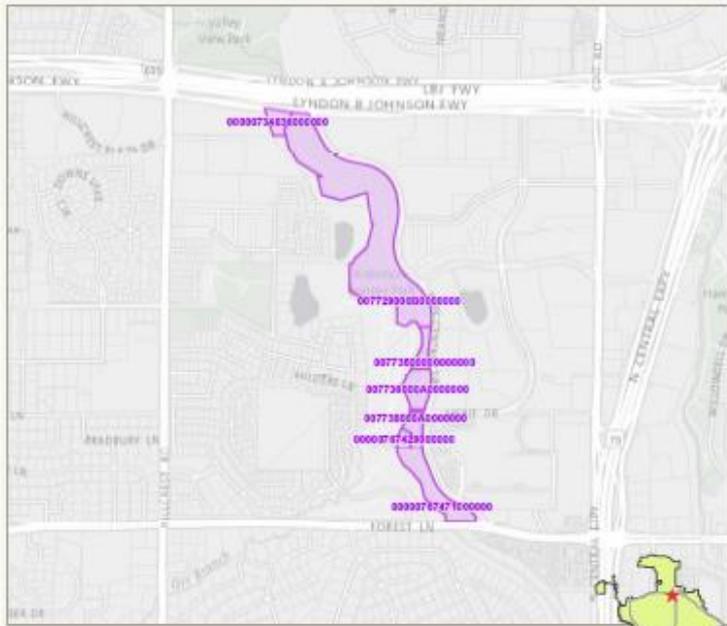
### Multi-Parcel Report



#### New Park Development Opportunity Info

Council District:

Number of Parcels in this Opportunity: 7 Total Acres in this Opportunity: 45.56



**Legend**

- Park Redevelopment Opportunity Parcel
- Other Parcels

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## Smart Growth for Dallas

### Parcel Report

July 28, 2016

Page 2 of 2



Parcel ID: 00000734836000000  
Address: 7100 LBJ FWY

Acres: 1.59  
ZIP Code: 75230

Goal: Equity	Acres	Percent	Present
Low Income Households	0	0%	No
Seniors over 65	1.589896	100%	Yes
Children Under 5	0	0%	No
People with Less Than a High School Education	0	0%	No
English as a Second Language	0	0%	No
Equity Priority Areas	0	0%	No
Goal: Health	Acres	Percent	Present
Respiratory Disease	1.589896	100%	Yes
Diabetes	1.589896	100%	Yes
Cardiovascular Disease	1.589896	100%	Yes
Health Priority Areas	1.589896	100%	Yes
Goal: Connect	Acres	Percent	Present
Bikeway and Trail Gaps	0	0%	No
Bicycle and Pedestrian Safety	0	0%	No
Create Connections to Transit	0	0%	No
Connect Priority Areas	0	0%	No
Goal: Absorb & Protect	Acres	Percent	Present
Stormwater Runoff Potential	1.589896	100%	Yes
Wetlands, Waterbodies and Stream Buffers	0	0%	No
Flood Zones	0	0%	No
Encampment Areas in South Dallas	0	0%	No
Absorb & Protect Priority Areas	0	0%	No
Goal: Cool	Acres	Percent	Present
Tree Canopy Cover	1.589896	100%	Yes
Impervious Cover	1.589896	100%	Yes
Cool Priority Areas	1.589896	100%	Yes

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# Parks for People



# III. COMMUNITY ENGAGEMENT

*buildingcommunity*WORKSHOP

# Community Engagement



# Community Engagement

Date	Meeting	Attendance
11/10/2016	Kickoff	56
11/17/2016	Lake Highlands Baptist Church	16
11/28/2016	Campbell Green Rec Center	25
12/06/2016	Hampton Illinois Branch Library	19
12/15/2016	Bachman Lake Rec Center	6
01/05/2017	Pleasant Grove Branch Library	11
01/12/2017	Highland Hills Branch Library	8
01/19/2017	Center for Non-Profit Mgmt	22
TOTALS:		157



# Data and Questions Identified from Engagement

---

Throughout the engagement process, participants provided information on how they interact with parks in Dallas and other cities. The types of stories we heard vary in detail, but several categories related to the overall Smart Growth for Dallas objectives were identified in analyzing all of the information. The largest of these categories, Design Considerations, specifically relates to park amenities and design. The other 3 are specifically about data, these categories are: Existing Data – Phase 1; Data We Know Exists; Missing Data; and Possible Research Questions.



# Existing Data

---

Comments heard during community engagement that relate to datasets that were already included in the Smart Growth for Dallas Phase 1 analysis:

- Connectivity to trails and parks
- Areas in proximity to parks
- Tree canopy cover
- Pedestrian safety
- Vacant land (parcels without structures)
- Concrete coverage and runoff



# Data We Know Exists

---

During the community engagement a number of priorities emerged that suggested the need to find additional data we believe has already been collected to address comments heard or that can be used in an analysis to create new datasets:

- Areas with high densities of apartment units or businesses
- Pedestrian-friendly or walkable neighborhoods
- Location of park amenities (e.g. sport fields, playgrounds, walking trails, etc.)
- Parks with little shade
- Age of equipment in parks
- Location of public art in proximity to parks



# Missing Data

---

Some comments heard during community engagement are not easily linked to existing data and would require collecting new information or establishing an analytical process to create:

- Condition of existing sidewalks
- Noise pollution near parks
- Wayfinding or signage in parks and trails
- Trail types, surface types, and width
- Park usage data (demographic information, activities, length of stay, etc.)
- Light pollution related to parks



# Remaining Questions

---

Many comments heard over the course of the engagement meetings cannot easily be linked to existing data or metrics to inform Phase 2 of Smart Growth for Dallas.

Answers to these questions will provide more information on how park users attitudes can be tied into the data and metrics of the decision support tool.



# Remaining Questions (Cont'd)

---

Some of these questions were:

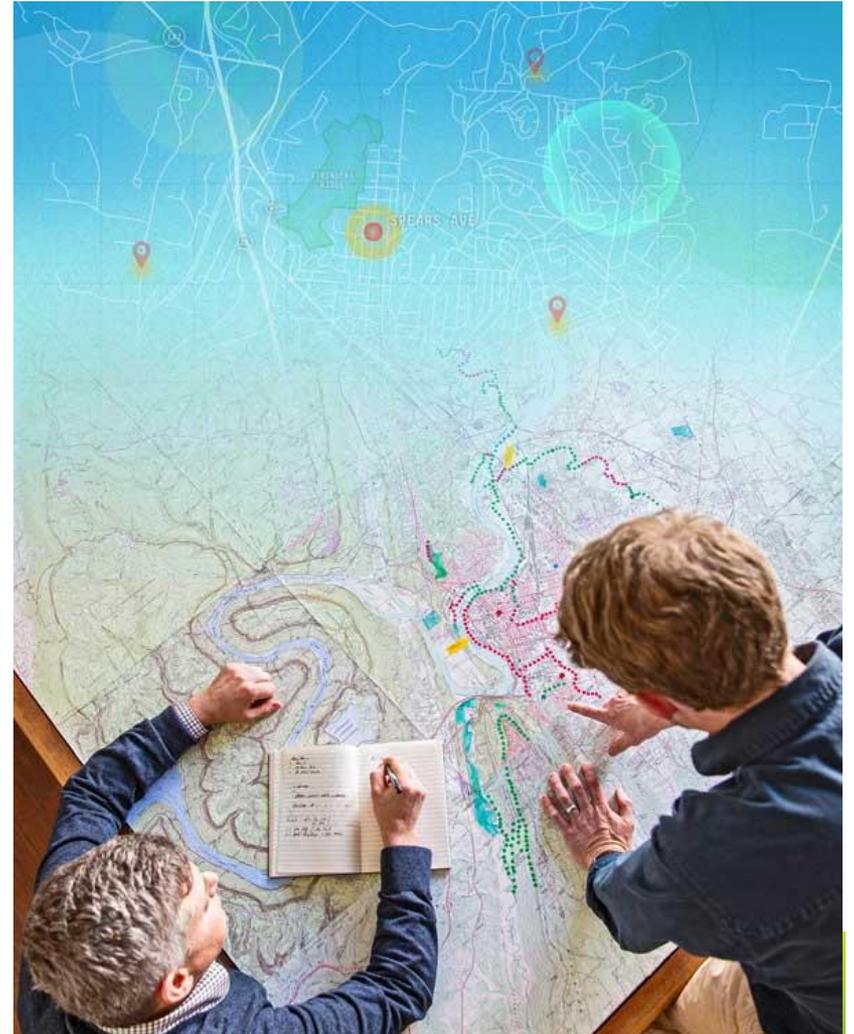
- Can an area support evening activities? What is needed to support safe evening activities?
- Development types and patterns, how do they coincide with park use?
- How do/can parks bring people together? Can that be designed for?
- How is ADA currently considered in the design of Dallas' parks, are these considerations fully addressing the current need?
- How many people use parks and trails as a primary means of "transportation"?
- How/where do homeless use parks?
- Are there data/design considerations for animal or butterfly migration?
- What features best promote active lifestyles?



# IV. PHASE 2 OBJECTIVES AND TIMELINE

# Smart Growth for Dallas Phase 2 Objective:

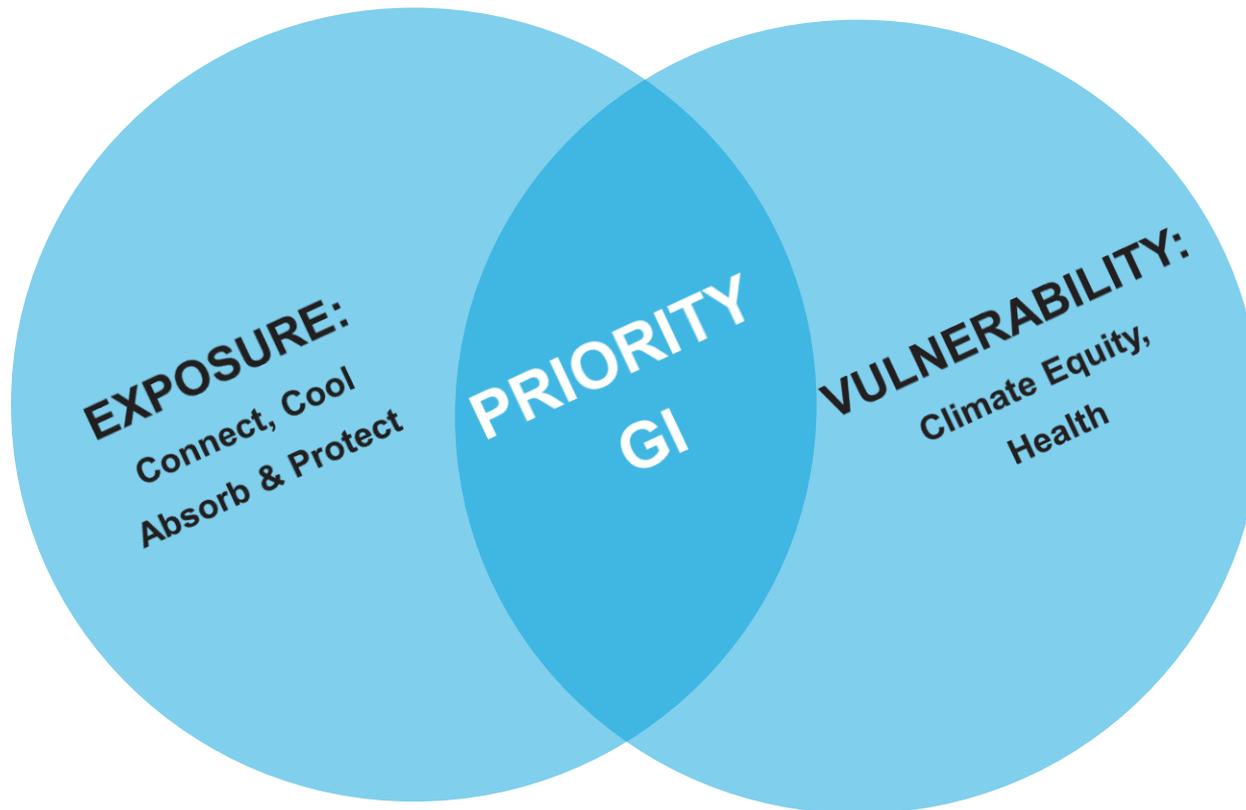
- Develop a web-based, GIS-enabled “**Decision Support Tool**” that identifies, at a parcel level, where resource investment can have a positive impact on social, economic, and environmental resilience in Dallas.



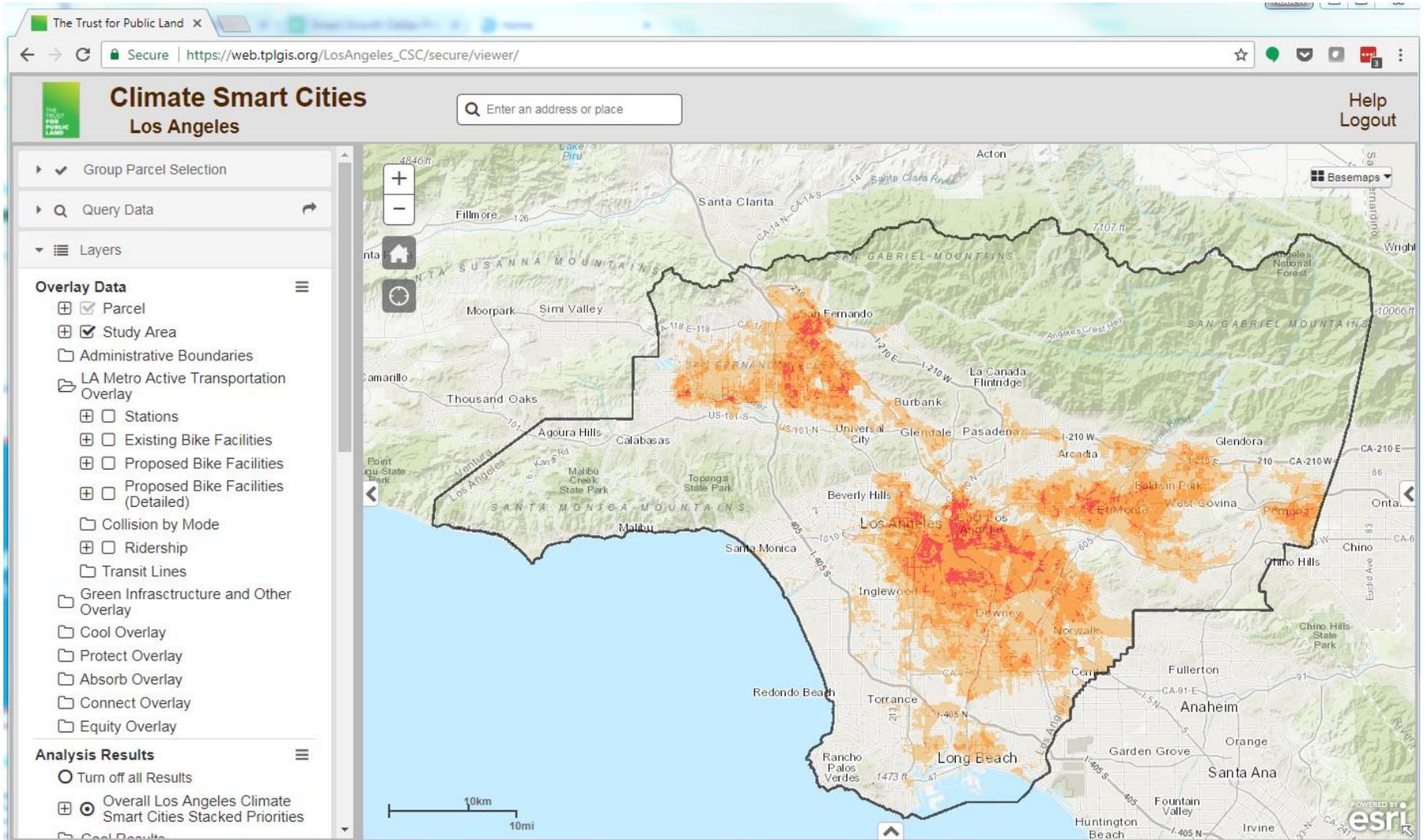
# The “Decision Support Tool”

---

**GOAL** Identify priority areas for multi-benefit green infrastructure interventions **where** people and places are at the greatest risk to the effects of climate change.



# The “Decision Support Tool”



# The “Decision Support Tool”

The screenshot displays the 'Climate Smart Cities Los Angeles' web application. The browser address bar shows the URL: [https://web.tplgis.org/LosAngeles\\_CSC/secure/viewer/](https://web.tplgis.org/LosAngeles_CSC/secure/viewer/). The page title is 'Climate Smart Cities Los Angeles'. A search bar is located at the top center with the placeholder text 'Enter an address or place'. On the left side, there is a list of priority areas with checkboxes and radio buttons. The map shows a network of red lines representing selected routes or corridors across Los Angeles, with major freeways like the 10 and 5, and streets like Wilshire Blvd and Hollywood Blvd labeled. The ESRI logo is visible in the bottom right corner of the map area.

**Climate Smart Cities Los Angeles**

Search: Enter an address or place

Help Logout

- Cool Overall Stacked Priorities
- Protect Results
- Absorb Results
- Connect Results
  - Connect Low-Income Communities to Job-Rich Districts
  - Connect Low-Income Communities to Medical Facilities and Grocery Stores
  - Connect Low-Income Communities to High Quality Transit
  - Connect High Bike Walk Communities to Job Rich Districts
  - Connect High Bike Walk Communities to Medical Facilities and Grocery Stores
  - Provide Access to LA River revitalization
  - Provide Access to Public Schools
  - Provide Access to Universities and Colleges
  - First Last Mile Priority Areas
  - Connect Overall Stacked Priorities
- Social Vulnerability Results

Scenario Tool

Draw

# The “Decision Support Tool”

The Trust for Public Land x Parcel\_20180104\_133545 x

Secure | https://web.tplgis.org/LosAngeles\_CSC/secure/viewer/

## Climate Smart Cities Los Angeles

Enter an address or place

Help Logout

Equity Overlay

### Analysis Results

- Turn off all Results
- Overall Los Angeles Climate Smart Cities Stacked Priorities
- Cool Results
  - Daytime LST Hot Spots
  - Nighttime LST Hot Spots
  - Cool Overall Stacked Priorities
- Protect Results
- Absorb Results
  - Riparian Areas
  - Flood Prone Areas
  - Permeable Soils
  - Spreading Grounds
  - Wetland Areas
  - Lakes and Ponds
  - Groundwater Forebays
  - Groundwater Basins
  - Absorb Overall Stacked Priorities
- Connect Results
  - Connect Low-Income Communities to Job-Rich Districts
  - Connect Low-Income Communities to Medical Facilities and Grocery Stores
  - Connect Low-Income Communities to High Quality Transit

273 ft

273 ft

100m 300ft

esri POWERED BY

Zoom to

Create Parcel Profile Report

Parcel ID: **5163017901**  
Owner: **LACMTA**  
Parcel City: **Los Angeles**  
Address:  
City:  
State:  
Zip Code:  
Zip Plus:  
Acres: **8.006764**  
Vacant: **No**  
Public Owned: **Yes**  
Neighborhood Council Boundary: **HISTORIC**

# The “Decision Support Tool”

## Climate-Smart Cities, Los Angeles

### Parcel Report

January 4, 2018

Page 1 of 3



Parcel ID: 5163017901      Owner: LACMTA      Acres: 8.01  
Address:

#### Administrative Boundaries:

State Assembly District: District 53  
Senate Assembly District: District 24  
Los Angeles Neighborhood Council Boundary: HISTORIC CULTURAL NC  
Public Owned: Yes

#### Green Infrastructure Suitability Indicators

Canopy Cover Minimum (%): 0.00	Cal EnviroScreen Asthma: 71.88
Canopy Cover Maximum (%): 0.00	Cal EnviroScreen Asthma (%): 88.30
Canopy Cover Mean (%): 0.00	Cal EnviroScreen Low Birth Weight: 0.05
Impervious Surface Minimum (%): 85.00	Cal EnviroScreen Low Birth Weight (%): 80.76
Impervious Surface Maximum (%): 100.00	Cal EnviroScreen Pollution: 72.17
Impervious Surface Mean (%): 92.24	Cal EnviroScreen Pollution Score (1-10): 7.22
Parking Lot (sq. ft.): 0.00	Cal EnviroScreen Pollution (%): 99.50
Available Solar (sq.ft.): 1000.00	Cal EnviroScreen Population: 56.45
Cal EnviroScreen Ozone: 0.02	Cal EnviroScreen Population Score (1-10): 5.64
Cal EnviroScreen Ozone (%): 39.83	Cal EnviroScreen Population (%): 61.96
Cal EnviroScreen Particulate Matter: 15.27	Cal EnviroScreen Score Pot Range: Top 10%
Cal EnviroScreen Particulate Matter (%): 92.99	Cal EnviroScreen Score: 40.74
Cal EnviroScreen Toxic Releases: 4680.27	USC PERE EJ Scrn. Cum. Impact Score: 12.00
Cal EnviroScreen Toxic Releases (%): 82.84	USC PERE EJ Scrn. Cum. Imp. Vuln. Ind. Score: 17.00
Cal EnviroScreen Traffic Density: 1674.97	Park Need Assessment Results: Low
Cal EnviroScreen Traffic Density (%): 76.36	Vacant: No

#### Legend

 Los Angeles Parcels



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## Climate-Smart Cities, Los Angeles

### Parcel Report

January 4, 2018

Page 2 of 3



Parcel ID: 5163017901      Owner: LACMTA      Acres: 8.01  
Address:

#### AB31 Criteria:

Acres of Park per 1k Residents: 0.29  
Median Household Income <80%: No  
Less than 3 acres Park per 1k Residents: Yes

Overall Stacked Priorities	Acres	Percent	Present
Stacked Priorities	8.01	100.0%	Yes

Goal: Cool	Acres	Percent	Present
Daytime Urban Heat Islands	8.01	100.0%	Yes
Nighttime Urban Heat Islands	8.01	100.0%	Yes
Cool Priority Areas	8.01	100.0%	Yes

Goal: Absorb	Acres	Percent	Present
Riparian Areas	0.00	0.0%	No
Flood Prone Areas	0.00	0.0%	No
Permeable Soils	8.01	100.0%	Yes
Spreading Grounds	0.00	0.0%	No
Wetland Areas	0.00	0.0%	No
Lakes and Ponds	0.00	0.0%	No
Groundwater Forebay	8.01	100.0%	Yes
Groundwater Basin	8.01	100.0%	Yes
Absorb Priority Areas	8.01	100.0%	Yes

Goal: Protect	Acres	Percent	Present
Coastal High Hazard Areas	0.00	0.0%	No
Projected Storm Inundation Areas	0.00	0.0%	No
Cliff Erosion Areas	0.00	0.0%	No
Shoreline Change	0.00	0.0%	No
Flood Prone Areas	0.00	0.0%	No
Protect Priority Areas	0.00	0.0%	No

# The Technical Advisory Team

---

## PURPOSE

Provide expert review and advice regarding design, data input, rationale, outcomes, and mapping.

## RESPONSIBILITIES

- Identify most appropriate criteria.
- Recommend best available data sources.
- Verify the completeness and appropriateness of model criteria.
- Help ensure that defensible science is used for all models and assumptions.
- Review input data and model results for accuracy and currency.

# Technical Advisory Team Launch – Nov. 30, 2017

Over 60 participants, representing dozens of departments and organizations:

- Park & Recreation
- Dept. of Transportation
- Planning + Urban Design
- Trinity Watershed Management
- Office of Environmental Quality
- Communication & Information Services
- City Manager's Office
- Urban Forestry Advisory Committee
- Dallas Public Library
- Office of Resilience
- City Plan Commission
- DART
- NCTCOG
- SMU
- Texas A&M
- UT Dallas
- Dallas County
- ...and more

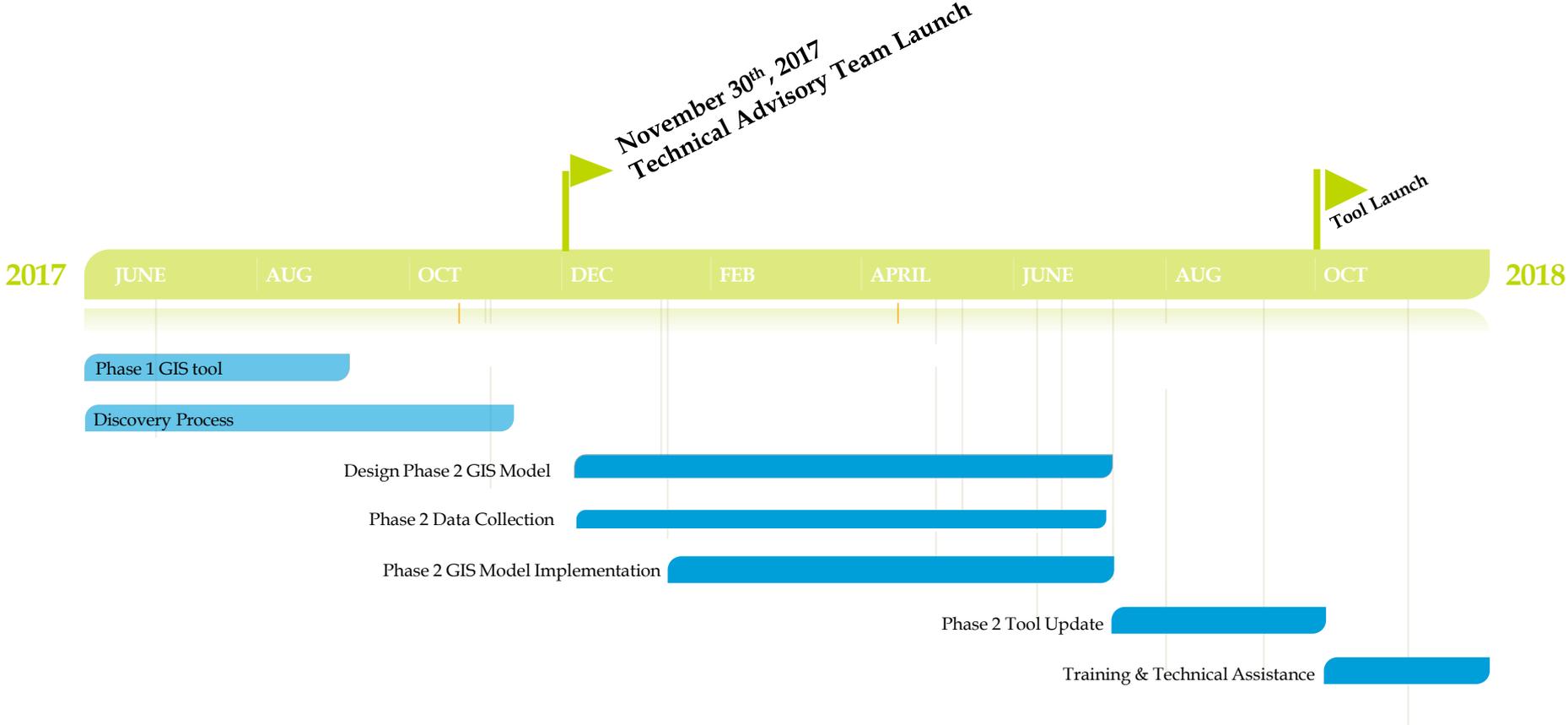


# The Role of the Technical Advisory Team

---

1. Collaboratively develop **conceptual framework** for our Decision Support Tool
2. Place each of our Smart Growth for Dallas **planning objectives** (Connect, Cool, Absorb, Protect, Equity, and Health) in the Dallas context using a “current conditions report” to frame the discussion
3. **Identify criteria** (location-based characteristics) for each planning objective and the most appropriate data sources needed to develop those criteria
4. **Identify potential datasets** for inclusion in our GIS models
5. **Identify use cases and design parameters** to maximize usefulness of Decision Support Tool for users

# Project timeline



# Next Steps

---

- Prepare GIS Model
- Start GIS Data Collection
- “Connect” Objective TAT Webinar – January 29<sup>th</sup>

## **Long-term:**

- Monthly TAT Webinars (January – September)
- June 2018 – Mid-project check-in
- October 2018 – Decision Support Tool Launch!
- November – December 2018 - Training

# Contact Us

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FOUNDATION

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