

### GREEN GOING GREENER

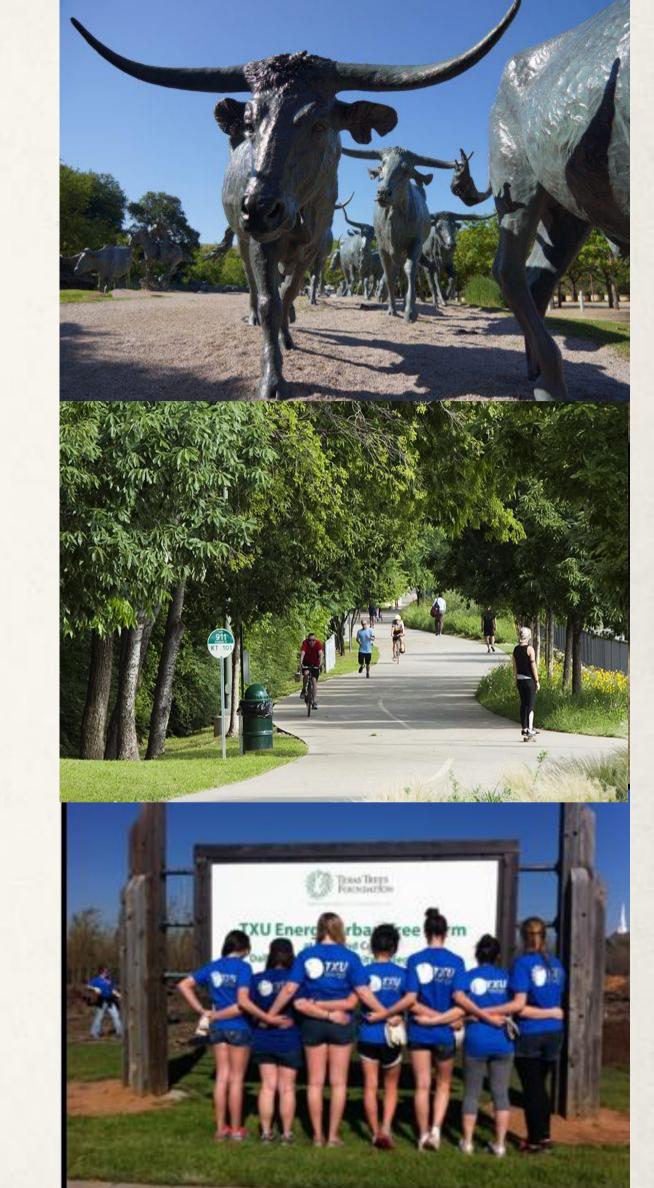
Dallas' First Urban Forest Master Plan

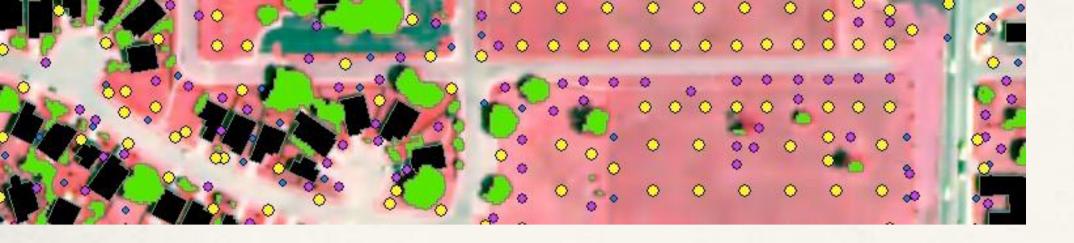




#### Serving Dallas since 1982!

- 1982 Founded as the Dallas Trees and Parks Foundation
- 1988 Secured donation of a 3.7-mile section of the MKT Rail that was used to form the Katy Trail
- 1994 Pioneer Plaza opened to the public
- 2000 Opened the nations largest Urban Tree Farm
- 2006 Partnered with Super Bowl XLV and the NLF Environmental to plant over 6,000 trees









# 2010 – First Urban Tree Canopy Assessment (UTC)

#### The Dallas Roadmap - Results at a Glance:

Urban Tree Canopy (UTC): 30% of land area - excluding water citywide and ranging from 16-39% within City Council districts

#### Number of Planting Sites by Roadmap Criteria:

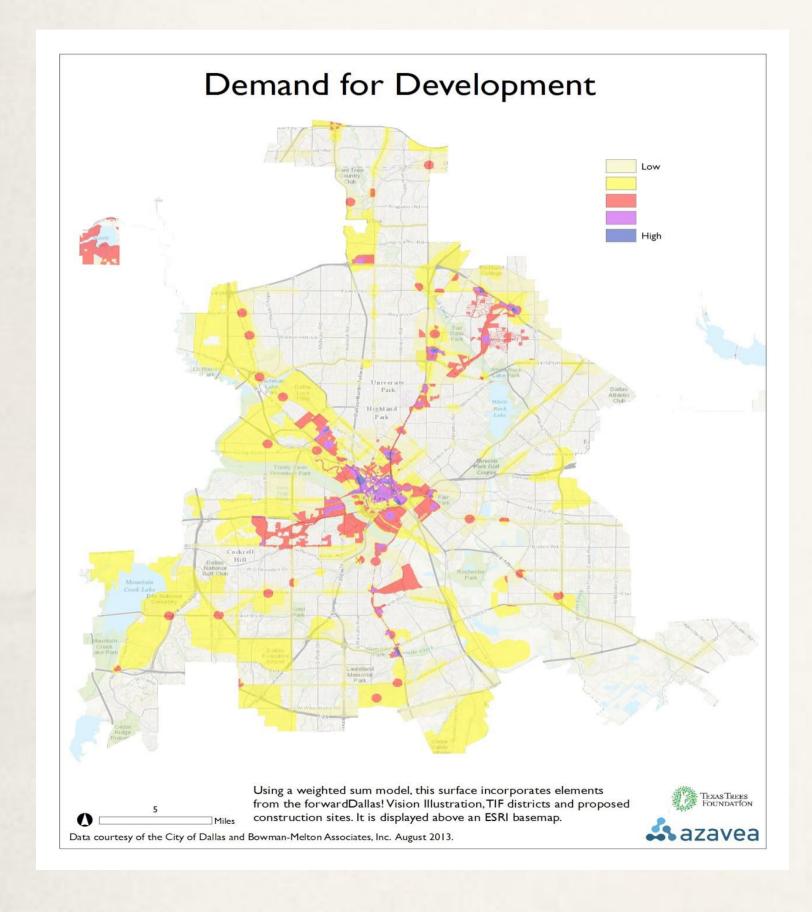
Maximum Energy Savings Potential:	332,194
Single Family Residential (SFR) Property:	458,850
Public rights-of-way (PROW):	480,790
<ul><li>On Commercial Property:</li></ul>	301,648
On School Property:	53,019
In or Adjacent to Parking Lots:	84,577
<ul><li>Lowest income range (&lt;\$20K);</li></ul>	214,809
<ul><li>Highest urban heat island range (&gt;140F):</li></ul>	19,097

\*Planting sites falling in multiple criteria categories were only accounted for in one category

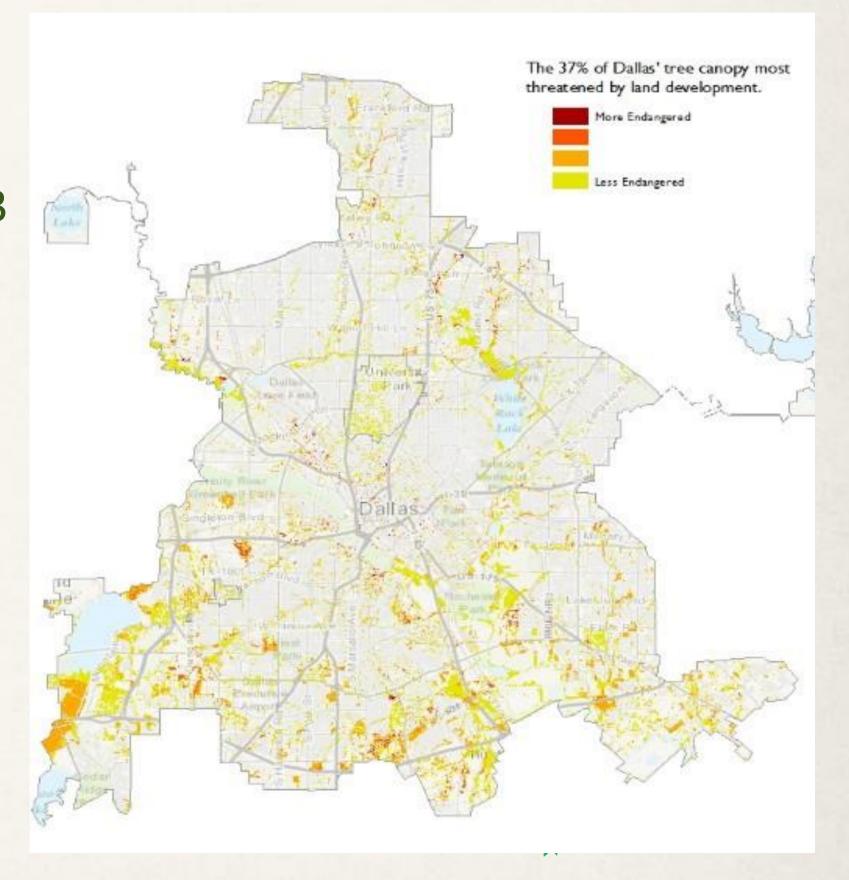
1,855,310\*

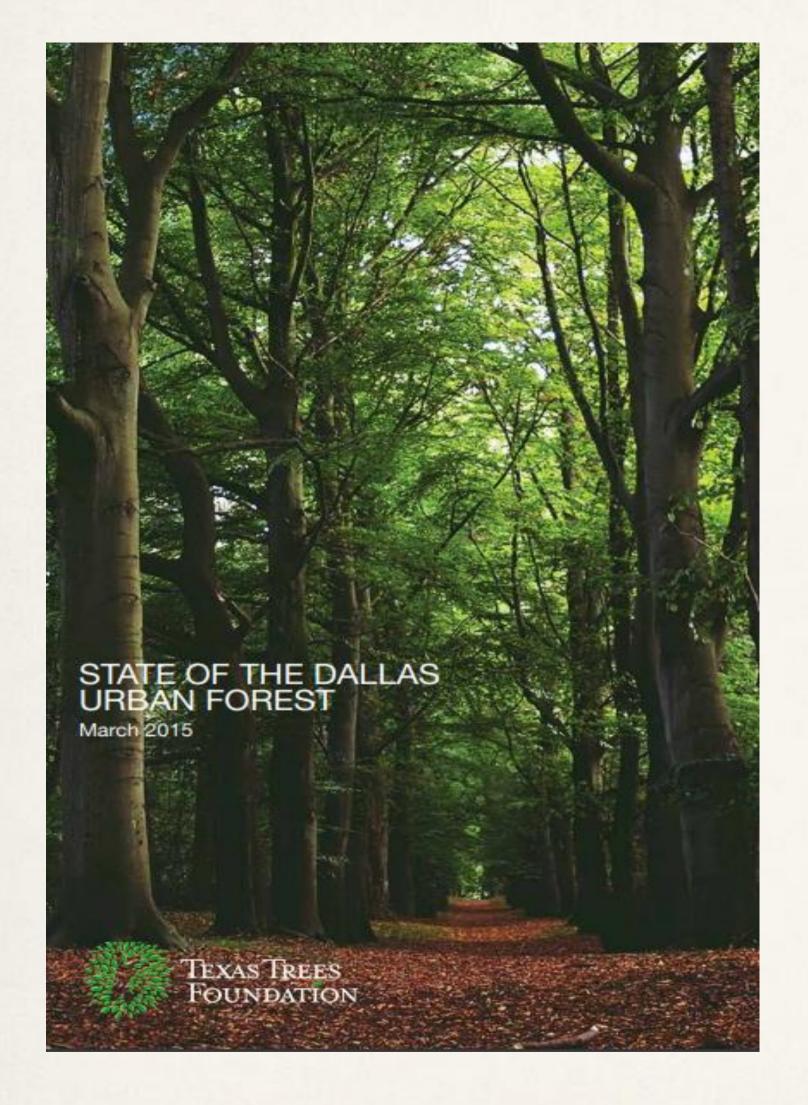
Total Potential Planting Sites:

### 2013 - Open Space Analysis



- Study conducted in the summer of 2013
- Utilized a variety of information including
  - Forward Dallas
  - TIF boundaries
  - Transportation corridors

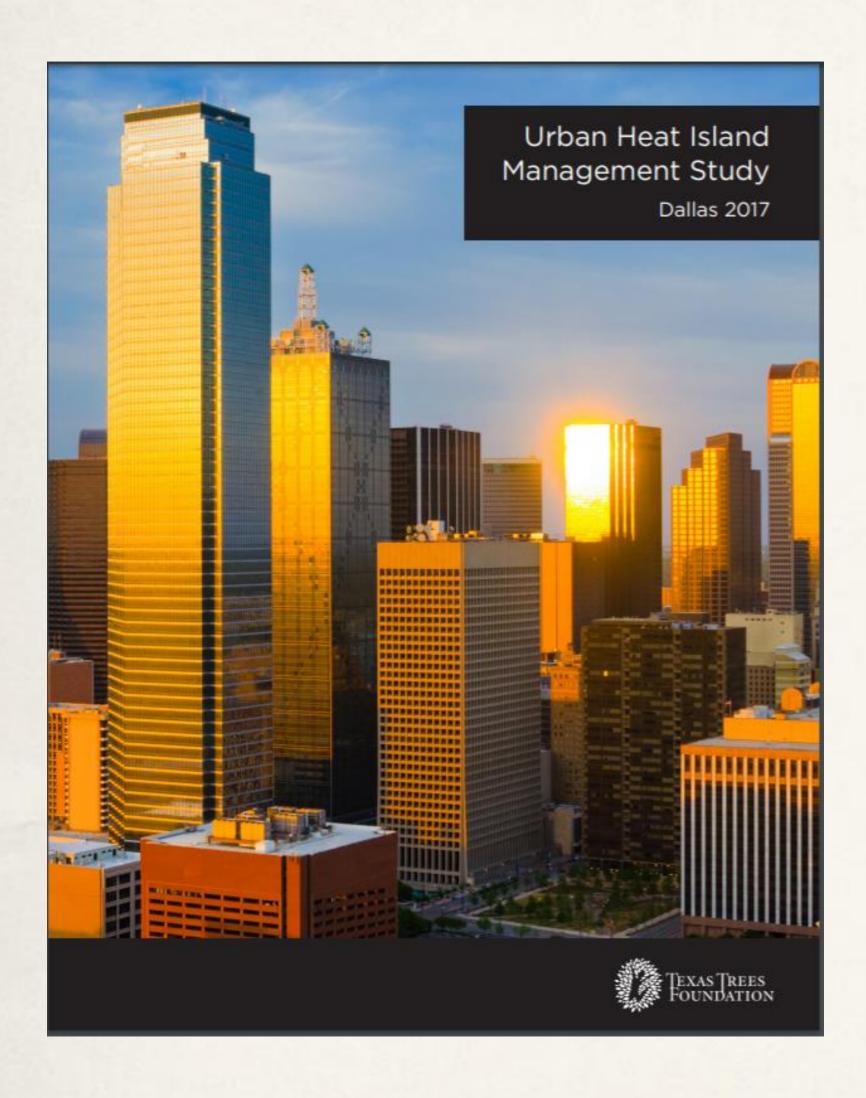




### 2015 – State Of The Dallas Urban Forest Report

- There are 14.7 million trees in the City of Dallas.
- These trees provide an annual savings of over \$9 million in energy savings.
- Capture 60 million cubic feet of stormwater for a savings of \$4 million dollars.
- Annual environmental benefits of \$38.4 million per year.
- OStructural value of \$9.02 Billion





### 2017 – Urban Heat Island Management Study

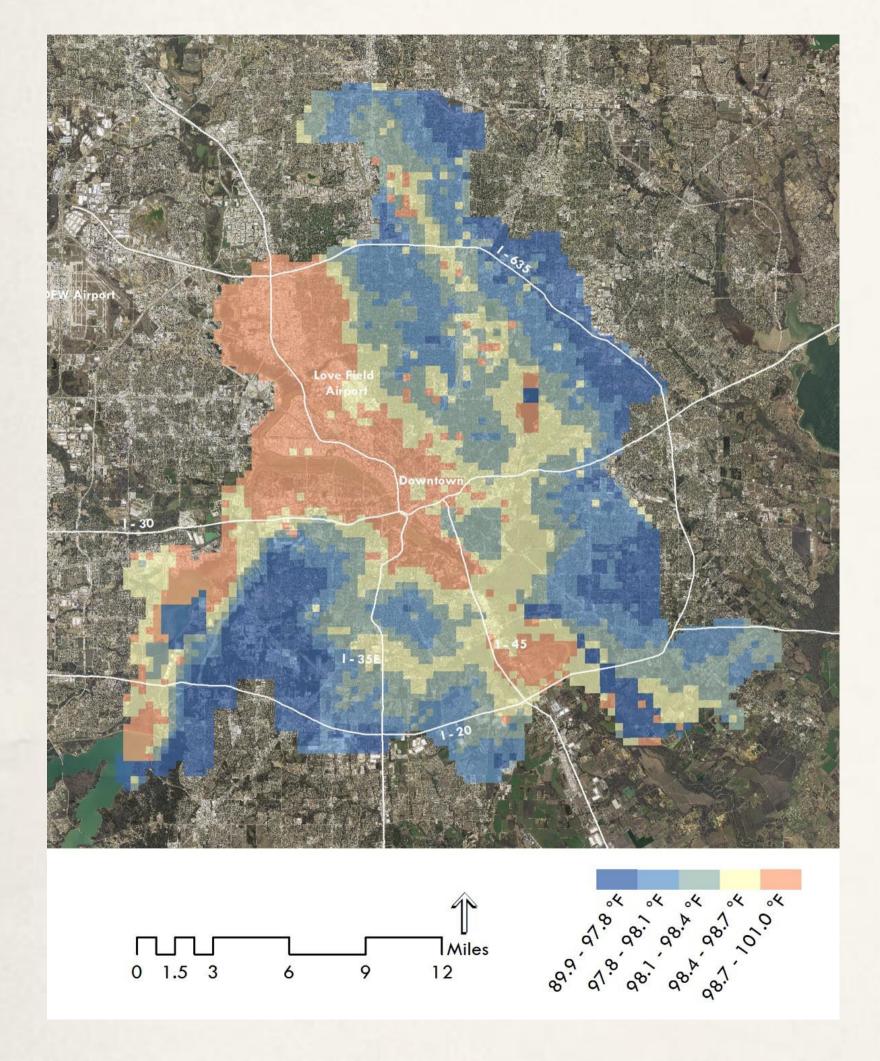
- Tree planting and preservation in Dallas can change the weather
- Tree planting and preservation in Dallas can save lives. When implemented in concert with more reflective paving and roofing materials, tree planting was found to reduce the number of deaths from hot weather by more than 20%.
- Greening strategies were found to be more than 3x's as effective in lowering temperatures around Dallas than cool materials strategies.
- Dallas can achieve significant cooling benefits from the setting of a very feasible tree planting goal: 285,000 trees.



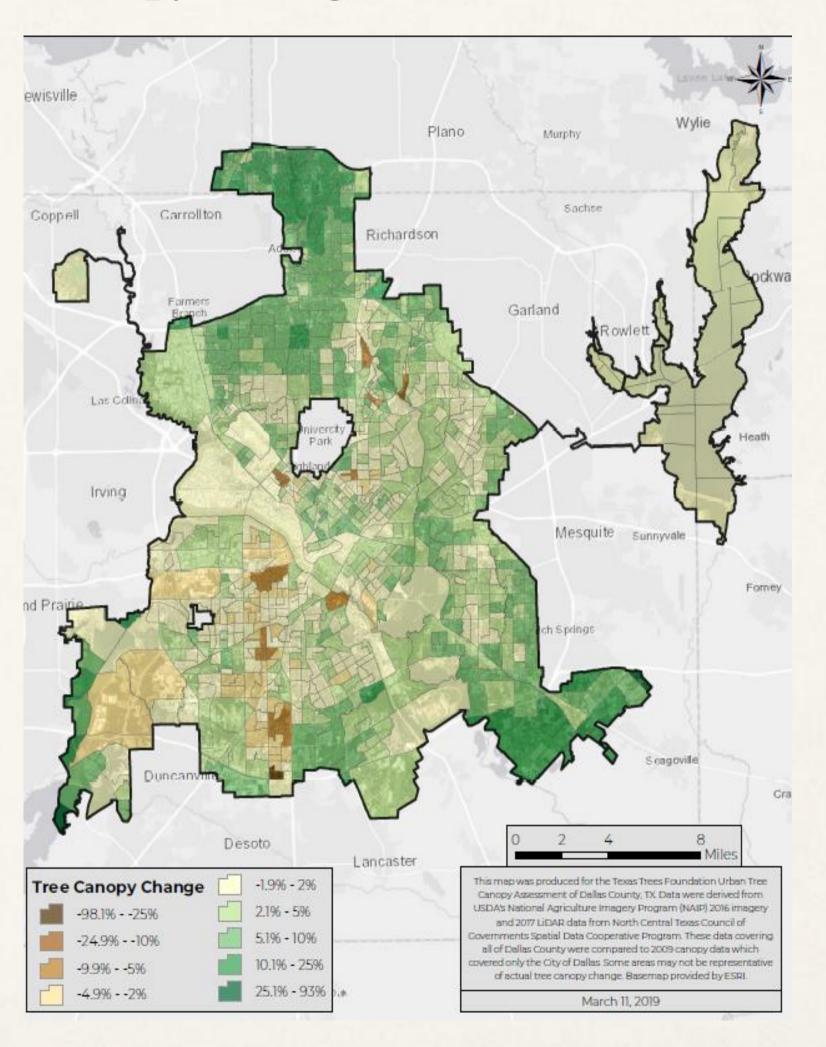
### Summer Daily High Temperatures



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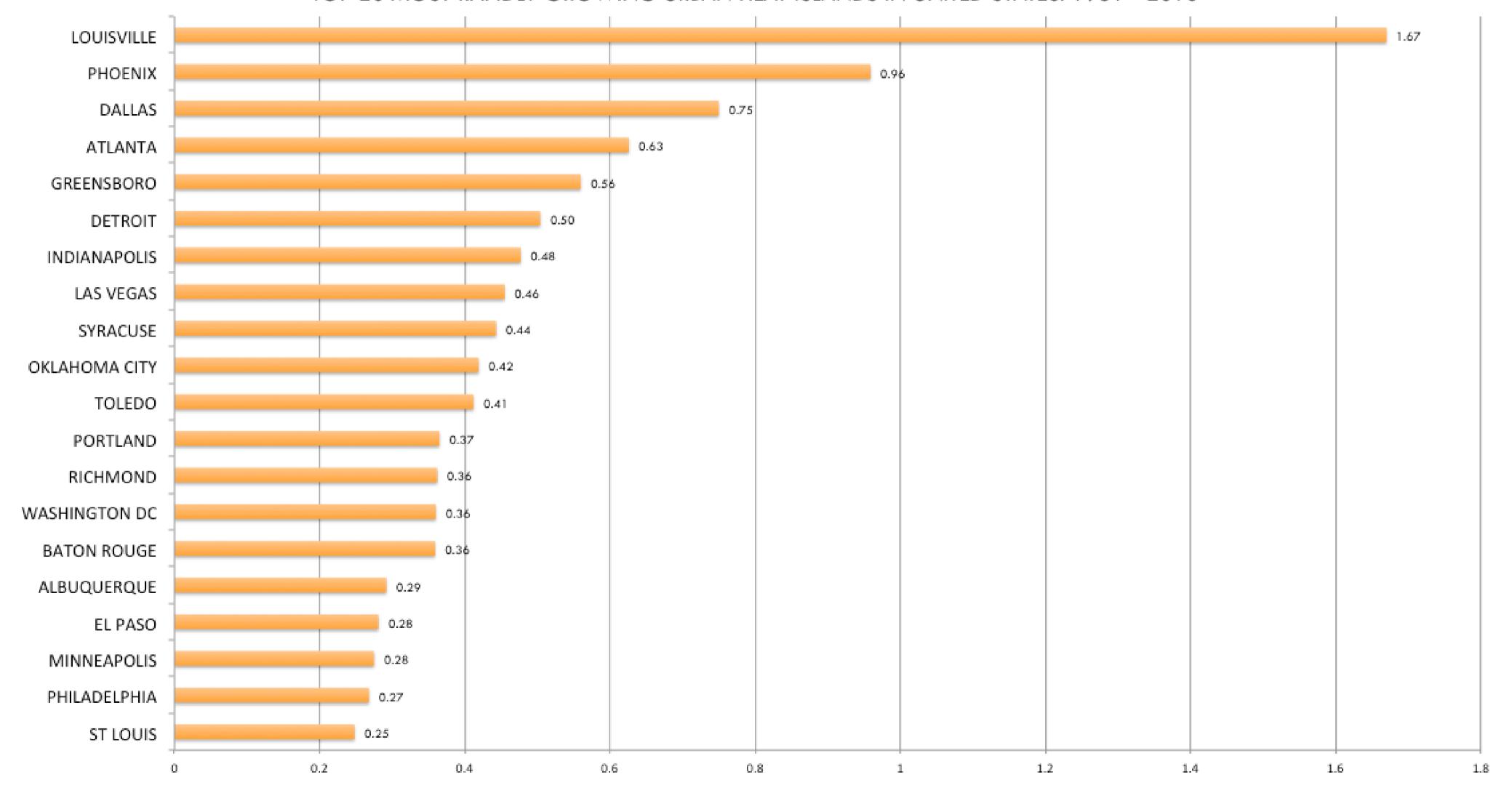


### Canopy Change From 2009 - 2019





#### TOP 20 MOST RAPIDLY GROWING URBAN HEAT ISLANDS IN UNITED STATES: 1961 - 2010



### **NO TREE PLAN**

Buildings and Energy	
Sustainable Development & Construction: Green Building	2017
Ordinance	
Food Security and Urban Agriculture	
Healthy Food Dallas Presentation	2017
Parks / Open Space / Forest	
Dallas Park & Recreation Comprehensive Plan	2016
Trail Network Plan Update	2009
Great Trinity Forest Management Plan	2015
Solid Waste	
Local Solid Waste Management Plan "Zero Waste Plan"	2013
Litter and Illegal Dumping Assessment	2018
Transportation & Land Use	
Downtown Dallas 360 Plan	2017
Mobility 2045: Metropolitan Transportation Plan	2018
Dallas Bike Plan	2011
Complete Streets	2017
2030 Transit System Plan	2006

Water / Wastewater	
Water Conservation Five-Year Work Plan	2016
Interim Bacteria Reduction Plan (TMDLs)	2012
City of Dallas, MS4 Stormwater Management Plan	2019
2014 Dallas Long Range Water Supply Plan to 2070 and Beyond	2015
Wastewater Treatment Facilities Strategic Plan	2010
Multiple	
Resilient Dallas	2018
Neighborhood Revitalization Plan for Dallas	2015
ForwardDallas	2006
Building a Cool, Clean and Resilient Dallas	2018
Balanced Vision Plan & Environmental Impact Statement	2014
Climate Vulnerability Assessment Review	
Climate Change/Extreme Weather Vulnerability and Risk Assessment for Transportation Infrastructure in Dallas and Tarrant Counties	2015
Dallas Urban Heat Island Management Study	2017
Smart Growth for Dallas	2018
City of Dallas Risk Assessment Case Study	2015
The Tornado Damage Risk Assessment: Predicting the Impact of a Big Outbreak in Dallas-Fort Worth, TX	2000
City of Dallas Community Wildfire Protection Plan	2015
3	

# WHY DO WE NEED AN URBAN FOREST MASTER PLAN?

An Urban Forest Master Plan serves as a road map providing detailed *information*, recommendations and the resources needed to effectively and proactively manage and grow a city's tree canopy.

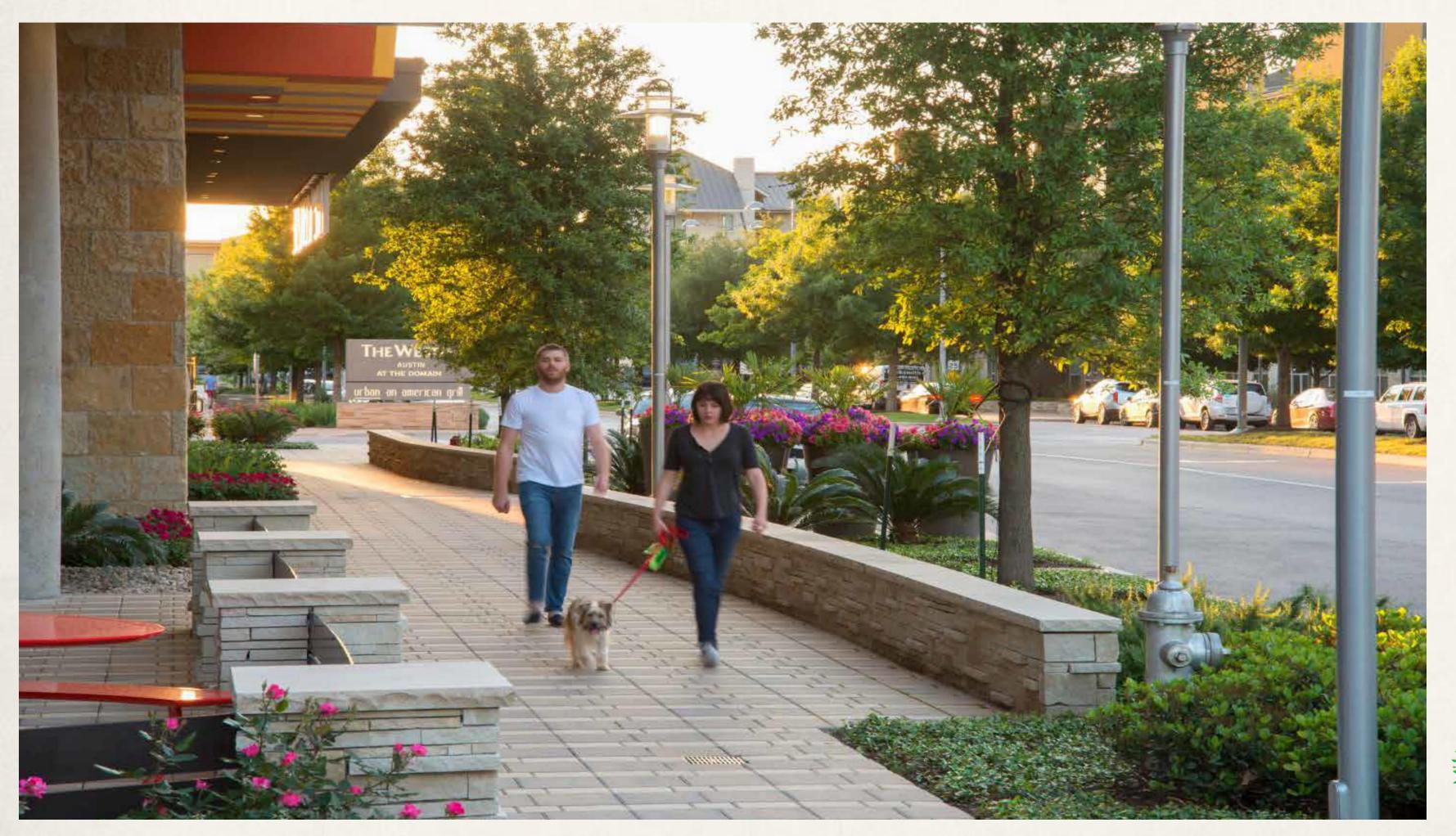
It provides a shared vision for the future of the urban forest to inspire stakeholders in the care, planting and protection of trees.

The opportunity is NOW!





### Opportunity - 38% of all public land in the City of Dallas is public right of way





#### Innovative Development Of Public Rights Of Ways Are Key To A Sustainable Future

#### **GREEN**

A term used to refer to goods and services, laws, guidelines and policies claimed to inflict reduced, minimal, or no harm at all, upon ecosystems or the environment.







#### **STREET**

Paved public thoroughfare in a built environment; a public parcel of land adjoining buildings in an urban context, on which people may freely assemble, interact, and move about.







#### **DEMONSTRATION**

Showing by reason or proof, explaining or making clear by use of examples or experiments; to clearly show.

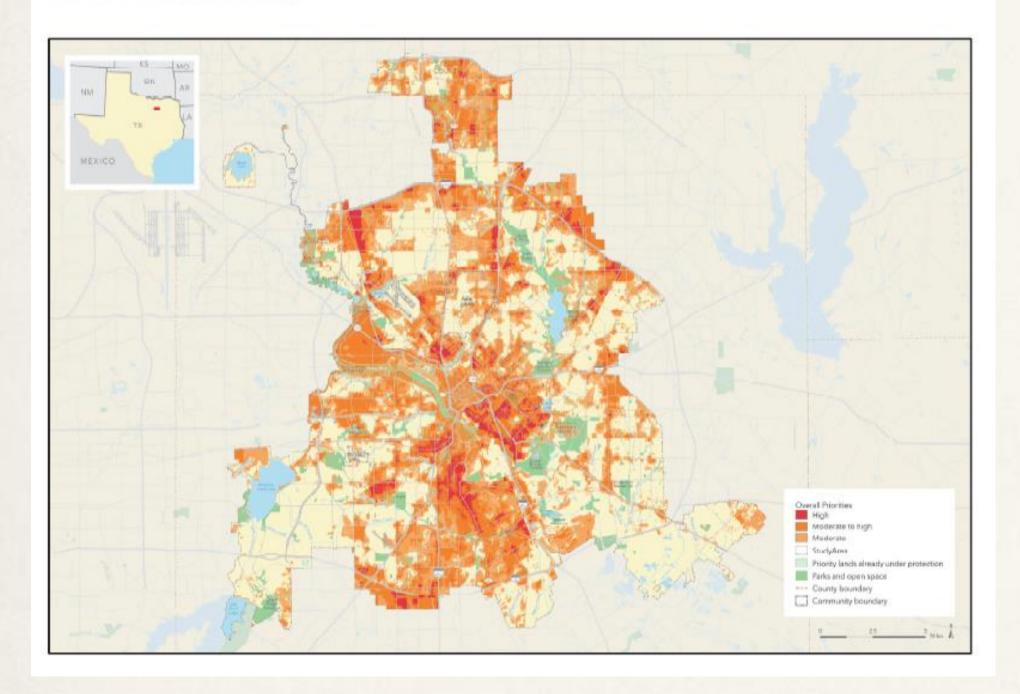
### Opportunity – To use what we've learned to influence the future

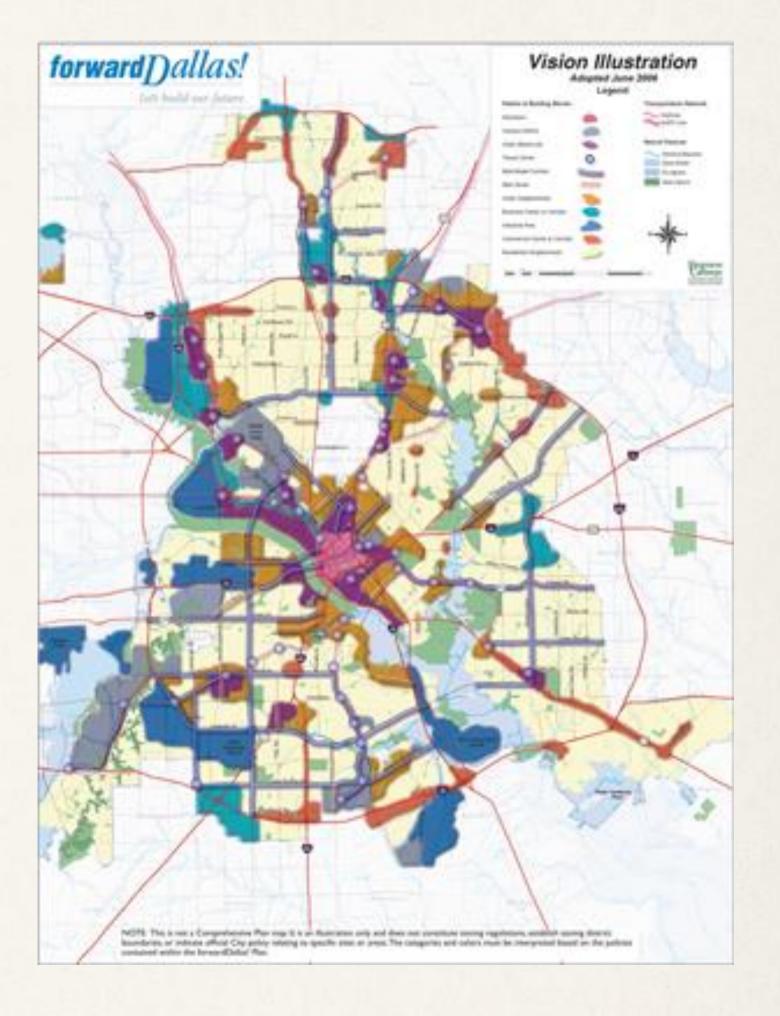
### Smart Growth for Dallas













### The Pallas Morning News

**NEWS** 

# Dallas officials estimate the city's parks lost more than 600 trees in storm

And they say it could take three to four years before the city can finish playing catch-up.

**NEWS > WEATHER** 

# Thousands still without power Monday after powerful storms rake Dallas-Fort Worth



### What Do We Hope to Address

- To proactively address growing environmental challenges with an urban forestry focus
- To create a coordinated vision for Dallas' urban forest
- To practice and model efficiency and cooperation
- To create clear goals and objectives for Dallas' urban forest
- To develop long term advocates
- Continue to build on the momentum from the work that has been done



### PROJECT TEAM

#### **Texas Trees Foundation**

- Matt Grubisich, Director of Operations
- Zach Wirtz, Urban & Community Forester

#### City of Dallas

Susan G. Alvarez, Assistant Director, Environmental Quality & Sustainability

#### Davey Resource Group & Preservation Tree

- Kerry Gray, DRG, Principal Urban Forestry Consultant/ Project Manager
- Dana Karcher, DRG, Project Developer
- Micha Pace, Preservation Tree, Director of Consulting
- Sam Heywood, DRG, Urban Forester
- Mike Harris, DRG, Plan Writer
- Will Ayersman, DRG, GIS Services Coordinator











### PLANNING PROCESS: HOW DO WE GET THERE?

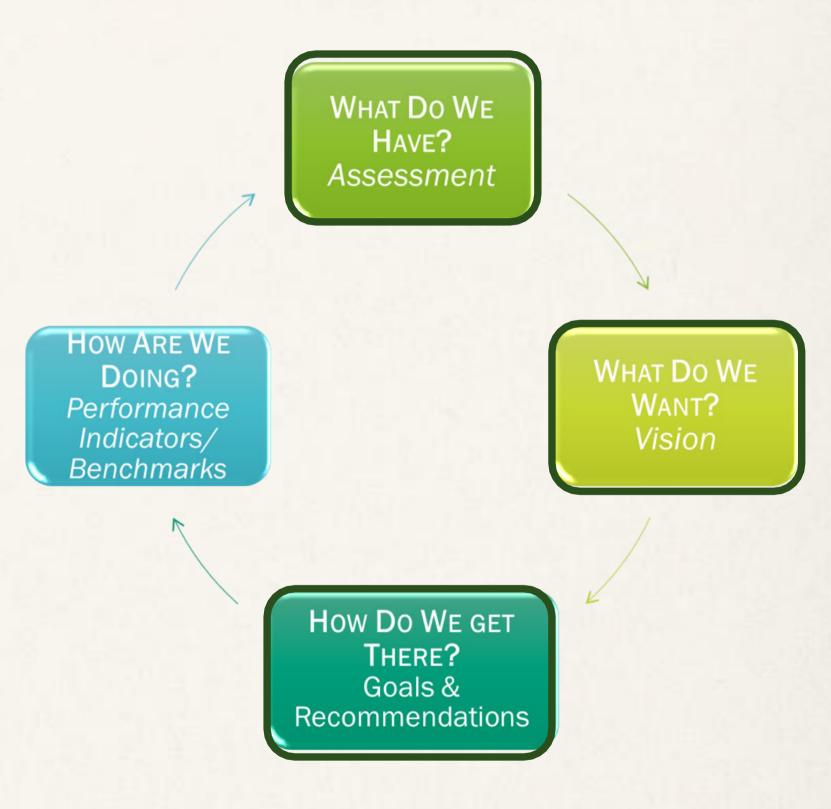
The feedback, vision and data & information analysis from first two phases



Development of Goals, Recommendations & Action Steps



Input & Engagement





### PLANNING PROCESS: WHAT DO WE HAVE?

### Research, Review & Analysis

- Tree Inventory Data
- Urban Tree Canopy Assessment
- Urban Forestry Operations Review
- Regulations Review
- Plan & Document Review
- GIS Data Analysis





### PLANNING PROCESS: WHAT DO WE WANT?

### Engagement

- Stakeholder Meetings & Interviews
  - Internal & External
- Operations Review Interviews
- Community Meetings
- On-Line Survey



### PLANNING PROCESS: HOW ARE WE DOING?

### Measuring Success

- Key Performance Indicators
  - Indicators of a Sustainable
     Urban Forest Moving to
     "Good"
- Metrics/targets for measuring progress in implementing Urban Forest Master Plan recommendations

			Assessed	
	Indicators of a Sustainable Urban Forest	Pen	formance L	evel
		Low	Medium	High
	Urban Tree Canopy			
The Trees	Equitable Distribution			
	Size/Age Distribution			
	Condition of Public Trees - Streets, Parks			
	Condition of Public Trees - Natural Areas			
	Trees on Private Property			
	Species Diversity			
	Suitability			
	Space and Soil Volume			
	Neighborhood Action			
	Large Private & Institutional Landholder Involvement			
	Green Industry Involvement			
	City Commission and Committee Engagement			
The	City Department/Agency Cooperation			
Players	Funder Engagement			
	Utility Engagement			
	Developer Engagement			
	Public Awareness			
	Regional Collaboration			
	Tree Inventory			
	Canopy Assessment			
	Management Plan			
	Risk Management Program			
	Maintenance of Publicly-Owned Trees (ROWs)			
	Planting Program			
The Mgmt Approach	Tree Protection Policy			
Арргоасп	City Staffing and Equipment			
	Funding			
	Disaster Preparedness & Repsonse			
	Communications			
	Contractors and Contracts			
	Best Management Practies/Standards			

### PLANNING PROCESS: ANTICIPATED SCHEDULE

### City of Dallas Urban Forest Master Plan

				Aug 2019	Sept 2019	Nov 2019	Dec 2019	Jan 2020	Feb 2020	Mar 2020	Apr 2020	May 2020
	Projected Start Date	Projected Completion Date										
What Do We Have? (Assessment)	8/22/19	11/30/19	~									
Analysis: Document/Data/Information			-									
Input: Indicators of a Sustainable Urban Forest self-assessment			*									
Review: Urban Forestry Operations			*									
What Do We Want? (Vision)	8/22/19	2/1/20	Ŧ									
Input: Stakeholder Meetings/Interviews,			*									
Input: City Staff Interviews			-									
Input: Community Meetings			*									
Input: On-line Survey			*									
How Do We Get There? (Goals & Recommendations/Final Plan)	2/2/20	5/1/20	*									
Review, Analysis & Synthesis: Data, information, Feedback			*									
Input: City Staff, Community, Stakeholders			~									
Approval & Adoption			~									
How Are We Doing? (Performance Indicators/Benchmarks)	5/1/2020		+									
Plan Implementation and Monitoring			-									



What's next!

Dallas Urban Forestry Master Plan

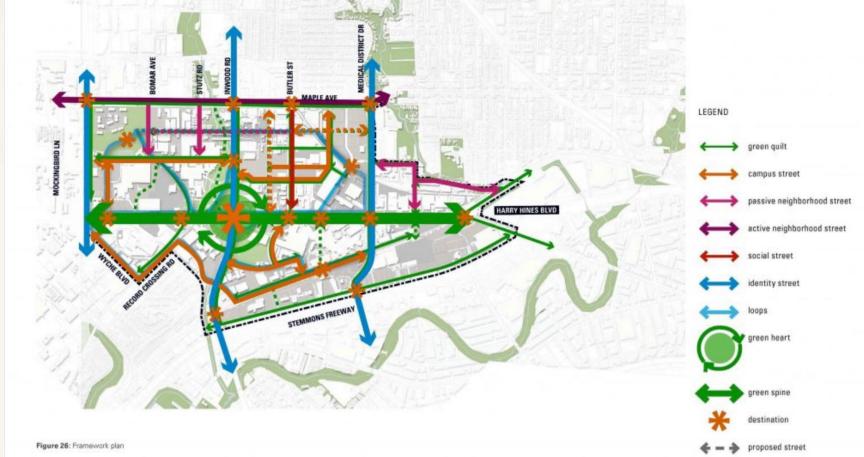
Release updated urban tree canopy cover

Re-plant 600 trees in Dallas Parks

Cool School Initiative – "No child left inside"

Southwestern Medical District Urban Streetscape Master Plan

Linking our urban forest to our community health







#### **Dallas Urban Forest Master Plan Community Survey**

The Texas Trees Foundation, the City of Dallas and Davey Resource Group, Inc. have kicked-off the development of the city's first Urban Forest Master Plan. The Plan will serve as a road map to proactively manage and grow the city's tree canopy and provide a shared vision for the future of the urban forest to help inspire us to care, plant and protect our trees here in Dallas.

This survey is part of an initial outreach effort to hear your thoughts about Dallas' urban forest, it should take less than 5 minutes to complete. The results of this survey will be used to guide development of the Urban Forest Master Plan.

For more information on the plan, planning process and how to stay involved, please visit the <u>Texas</u> <u>Trees Foundation</u>.

Thank you for your input!

Next

O of 15 answered

## Thank You

www.texastrees.org/urban-forest-master-plan

