

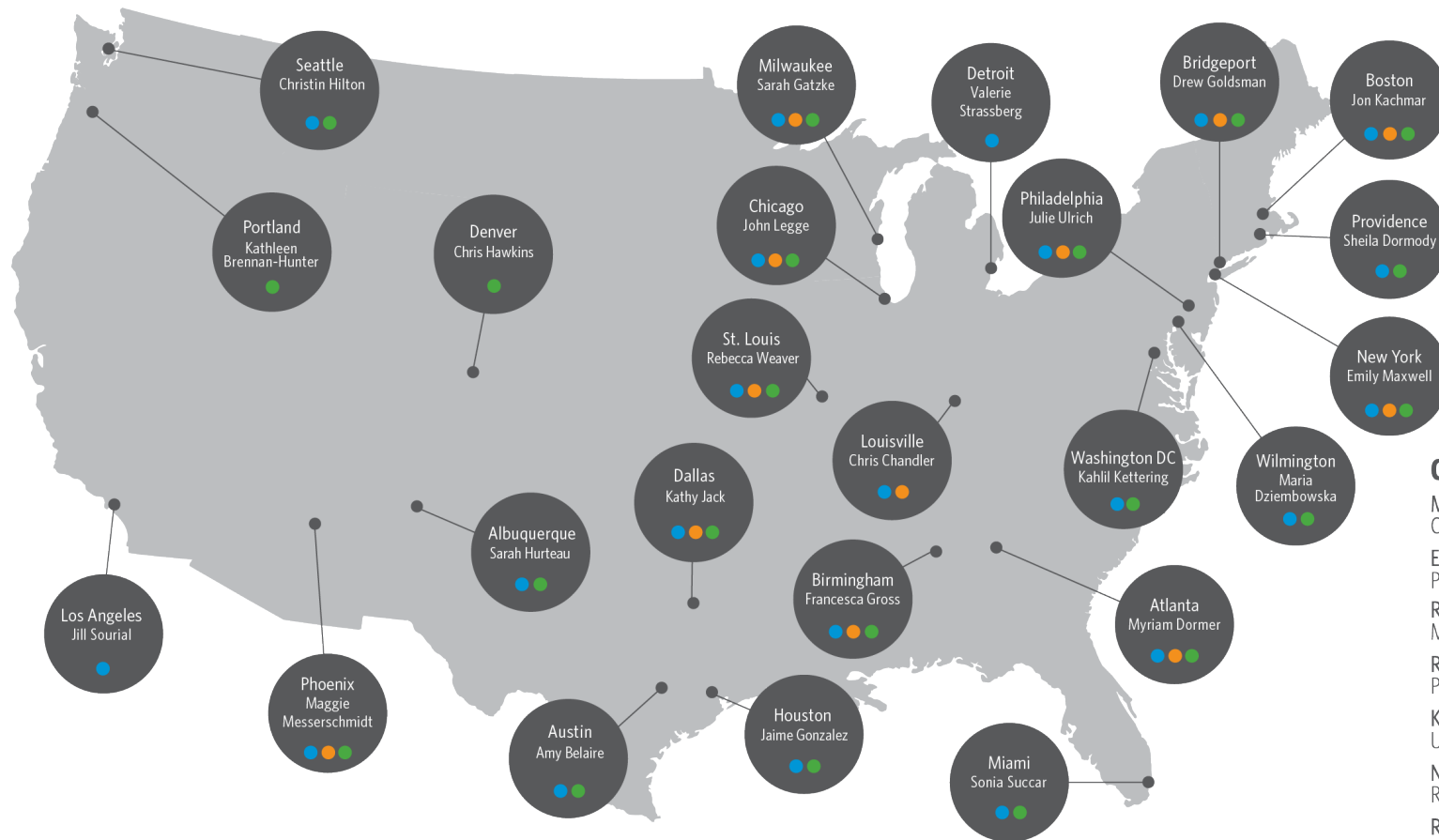


Urban Tree Health Monitoring

North America Cities Network

Rachel Holmes
Urban Forestry Strategist

CITIES NETWORK: **EQUITABLE, TRANSPARENT**



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Urban Tree Health Monitoring: Update



Healthy Trees, Healthy Cities App

HEALTHY TREES · HEALTHY CITIES



Download on the
App Store



ANDROID APP ON
Google™ play

2014

- Funding from NISC and partnership with Davey Tree Expert Company
- 1 crew
- 1 city: NYC

2016

- Funding from USFS and corporate sponsorship
- 2 cities: NYC, Washington, DC
- 3 crews
- External Partners – Casey Trees in DC, Chicago Parks District

2018

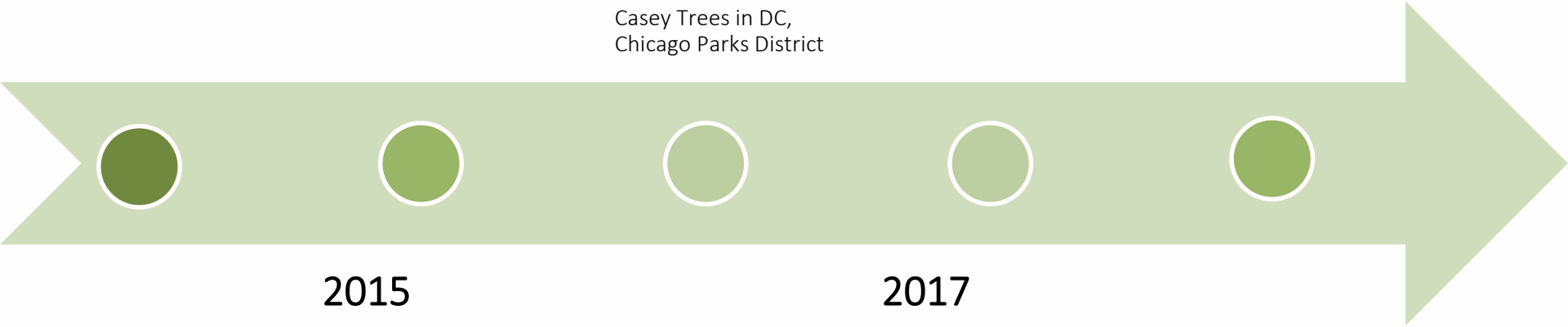
- Funding from USFS and corporate sponsorship
- 9 cities
- External Partners: *(Numerous)*

2015

- Funding from USFS and corporate sponsorship
- 5 crews
- 2 cities: NYC, Philadelphia
- HTHC Smart Phone App First Used

2017

- Funding from USFS and corporate sponsorship
- 3 cities: NYC, Washington, DC, Chicago
- External partners: Casey Trees, DC and Chicago Parks District

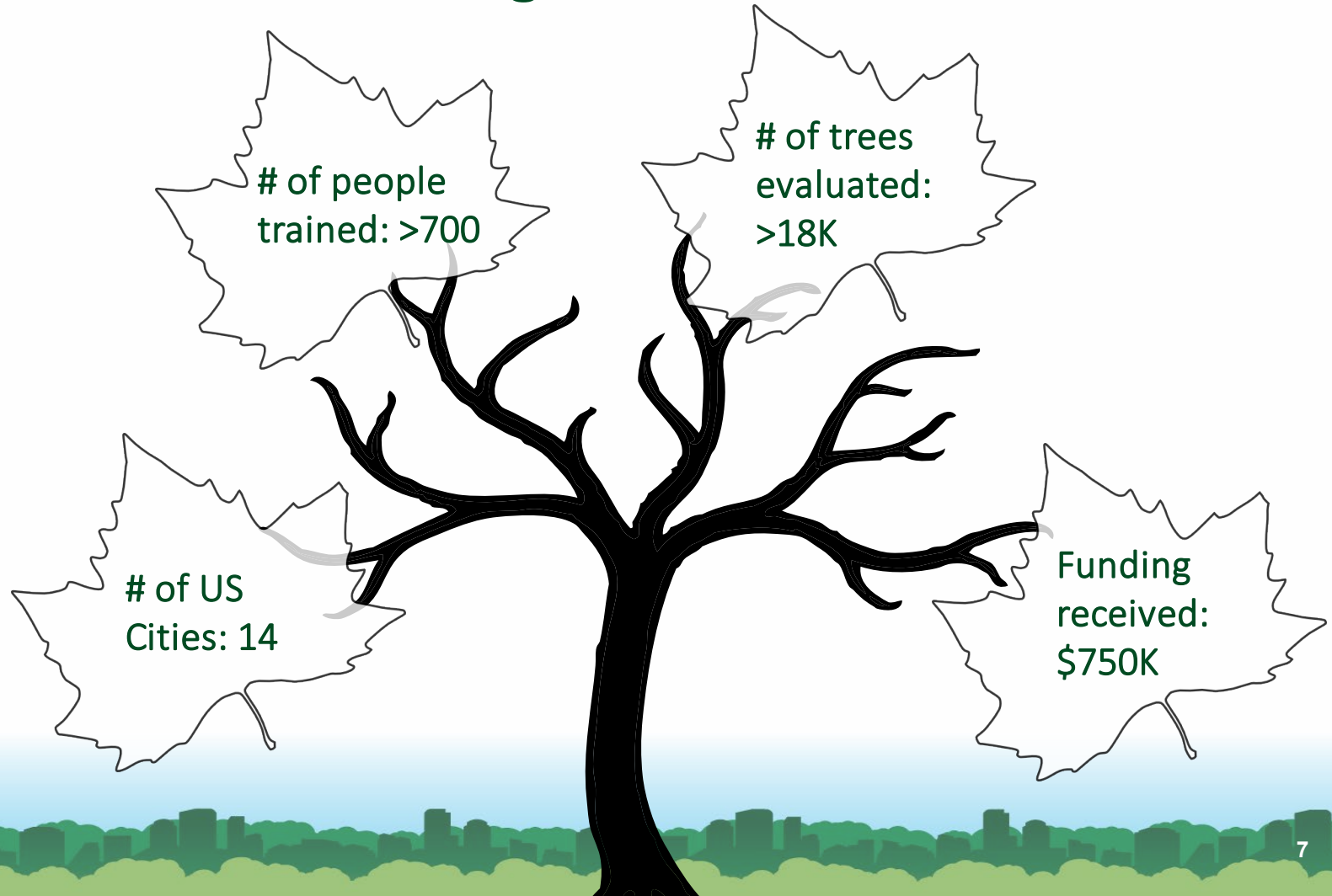


Service Areas/ Cities

Since 2014	2018/19 Field Season
Atlanta, GA	Albuquerque, NM
Boston, MA	Atlanta, GA
Chicago, IL	Chicago, IL
Dallas, TX	Dallas, TX
Louisville, KY	Denver, CO
New York, NY	Las Vegas, NV
Philadelphia, PA	Milwaukee, WI
Washington, DC	New York, NY
Watertown, MA	Wilmington, DE
Wilmington, DE	



Tree Health Monitoring Efforts: Stats at a Glance



...but how is the data being used?



How is the data being used?

RESEARCH PROJECTS

1. Research Project: Hurricane Sandy Post-Flooding assessment [Published]
2. Research Project: Urban Heat Island Impact Study in New York City
3. Research Project: Cues to care – correlation between stewardship and tree health
4. Research Project: Parking lot regulations' impact on urban ecosystems, esp trees
5. Research Proposal: Remote Sensing Project with MIT, proposal to NASA



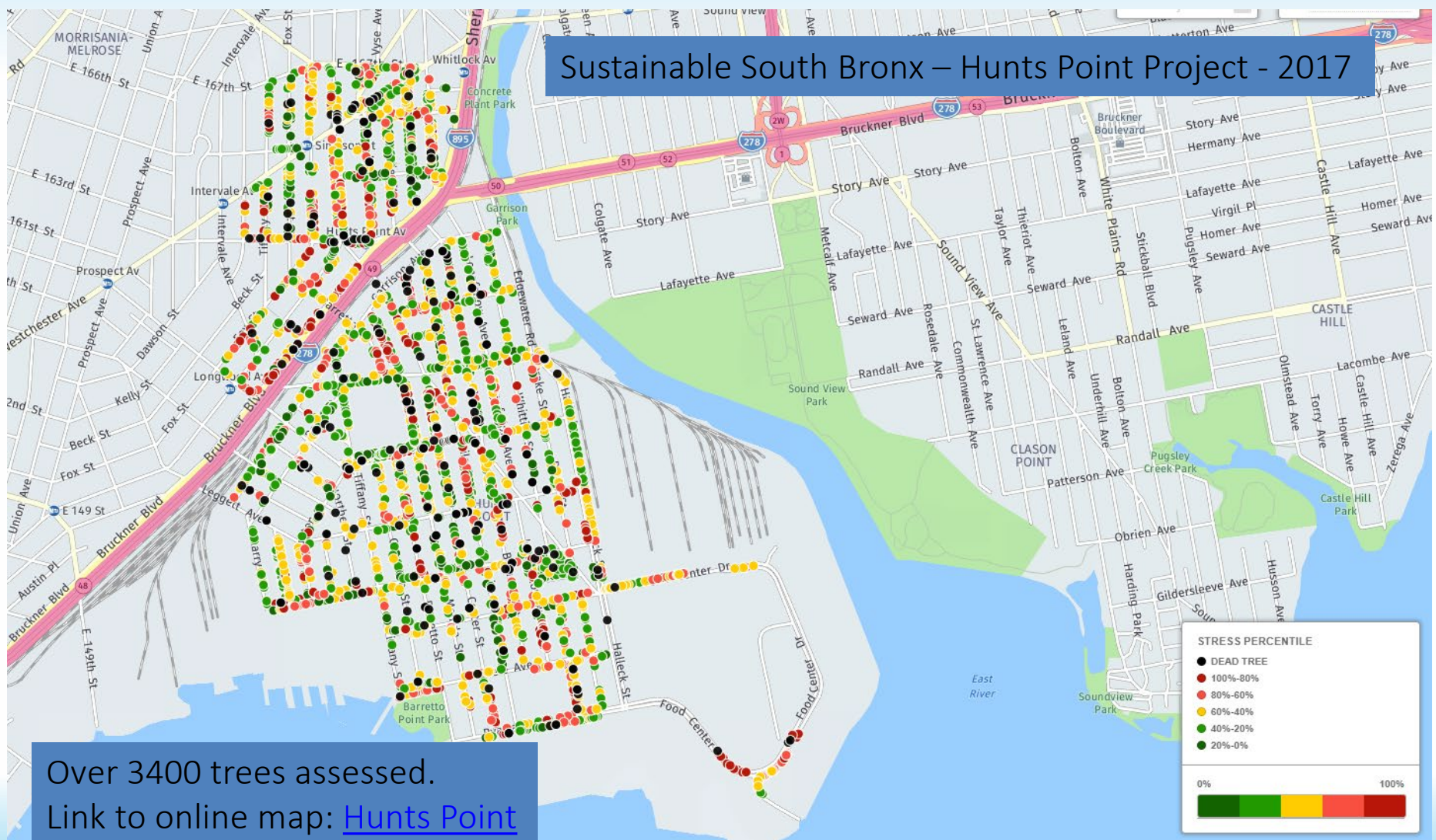
How is the data being used?

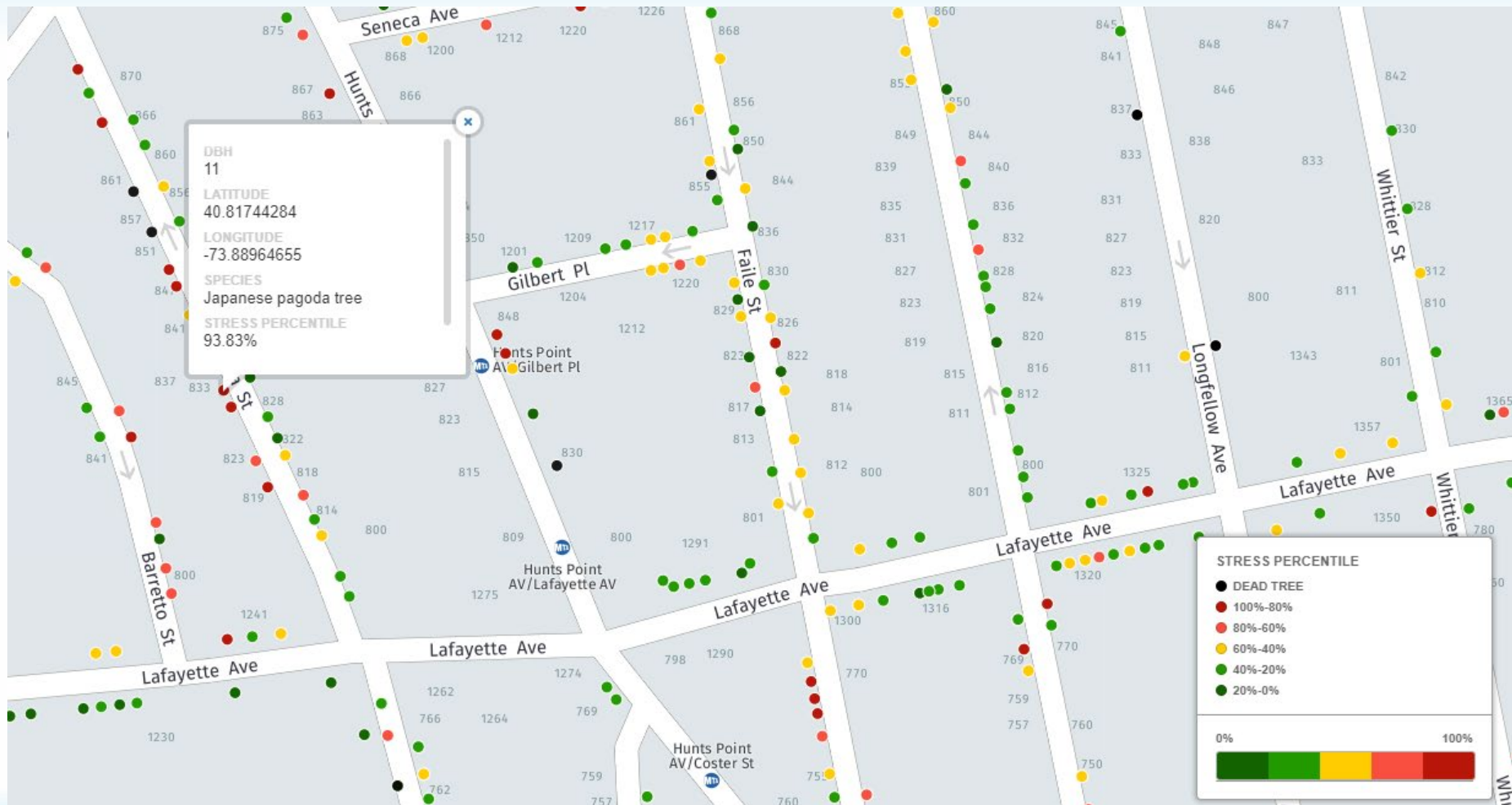
MANAGEMENT EFFORTS

1. NYC Parks Department – *Fraxinus spp.* assessment and response
2. NYC Parks Department – neighborhood-level management prioritization
3. City of Albuquerque – tracking tree health for maintenance prioritization
4. City of Albuquerque – Establishing cause for additional municipal resources
5. Codman Square Neighborhood, Boston – evaluating the health of trees for tree-planting prioritization
6. Imani Green Health Advocates in Chicago – Evaluating correlation between urban tree health and human health in Pullman Neighborhood, for health intervention



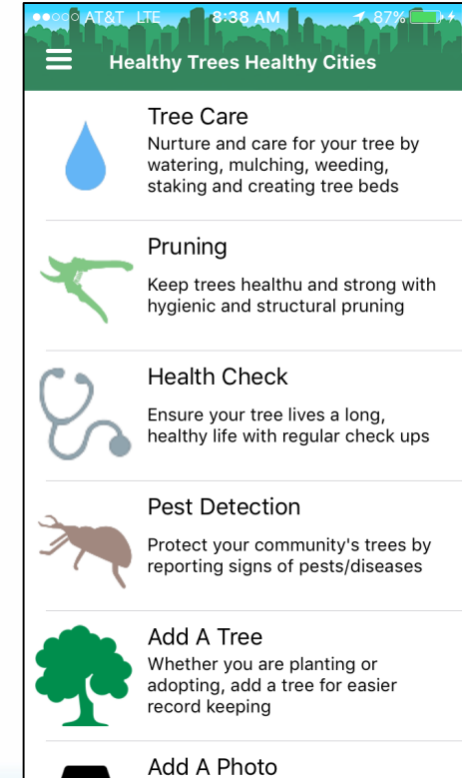
Sustainable South Bronx – Hunts Point Project - 2017







MyTree + HTHC App



1. What are the universal signs/symptoms to be included in MyTree?

2. Are the 13 most wanted insects/ diseases in the HTHC app still relevant?



QUESTIONS?

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