

Our Trees.

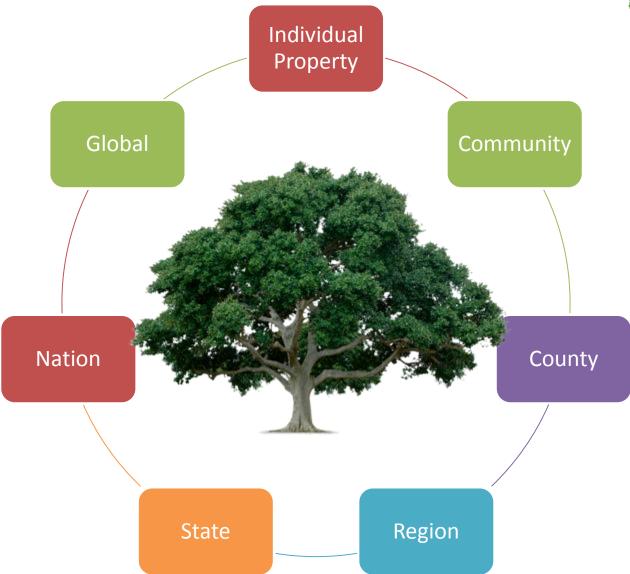
Our Communities.

Science to Action



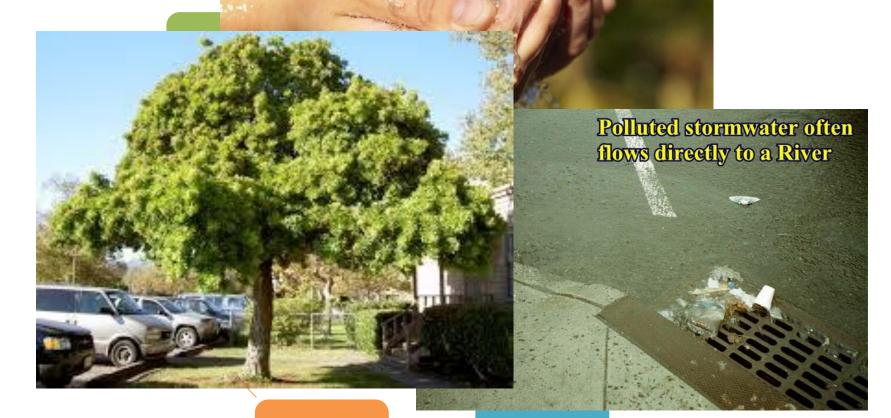
Forest Resource





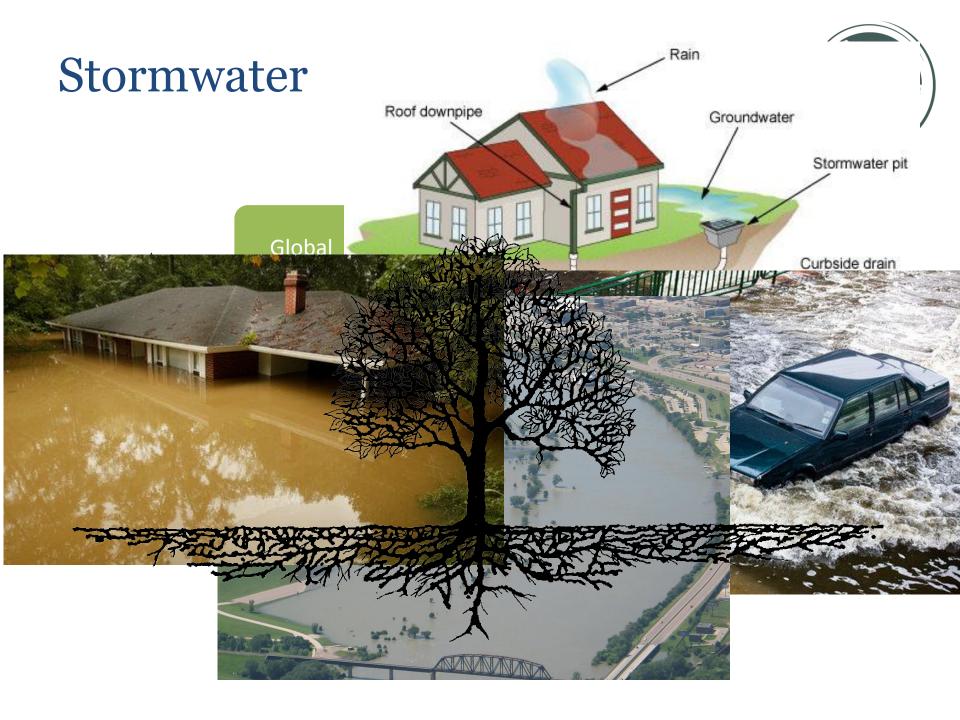
Water Qual

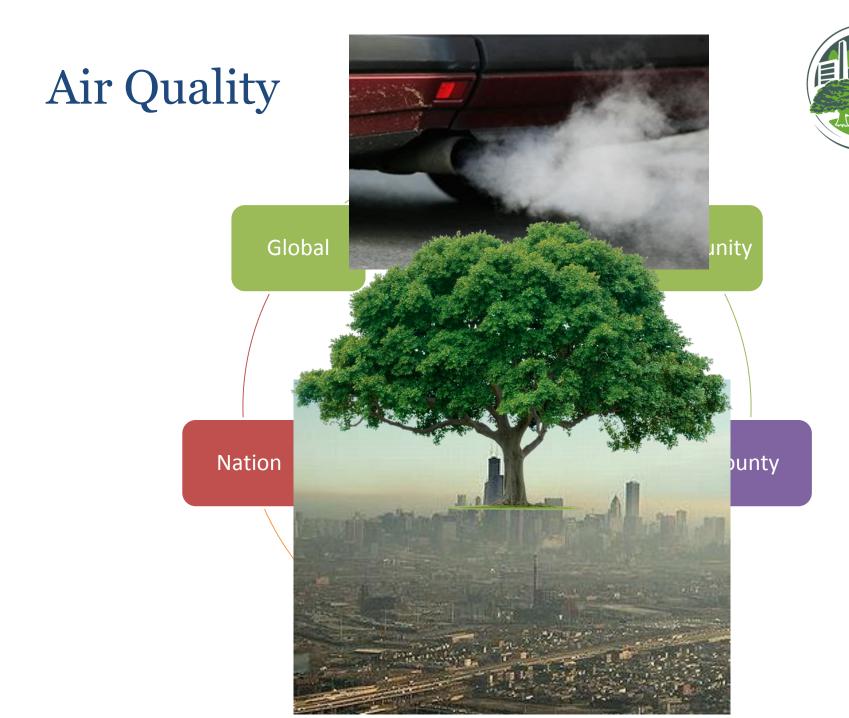




State

Region





Social



- Improved social interaction
- Increased community activity
- Increased creative play
- Decreased crime



Economic

Reduced ene

Reduced air

Reduced he

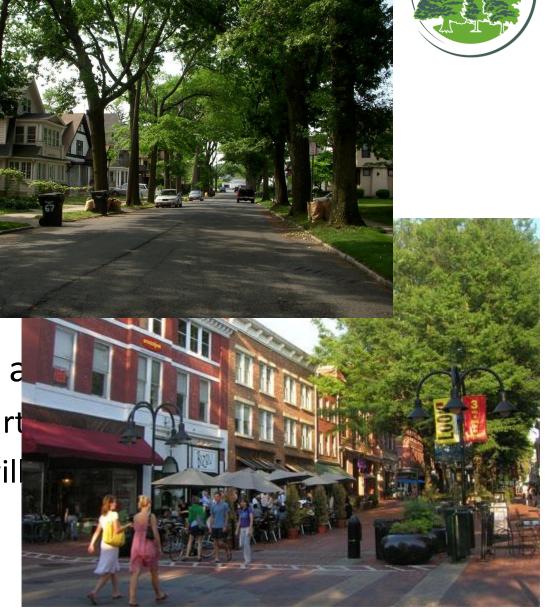
Increased present

Aesthetics (1070)

Increased business a

People will drive fart

 People are more will trees (12% more)



Wildlife

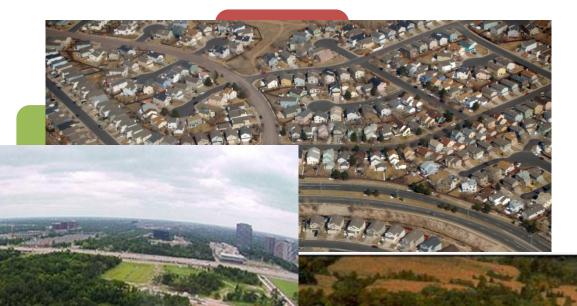


- Life web
- Habitat



Corridors and Connectors





Chicago Region Trees Initiative:



A collaborative effort to support and host a healthier urban forest in the Chicago Region by 2040. This forest will be comprised of a diversity of tree species and ages, appropriately distributed across land use types in the region. The forest will provide the region improved environmental, economic and social benefits.

Built on science!

7 County Chicago Region

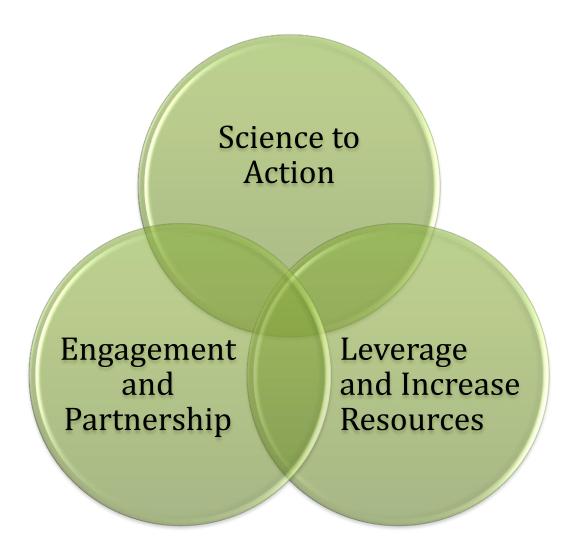


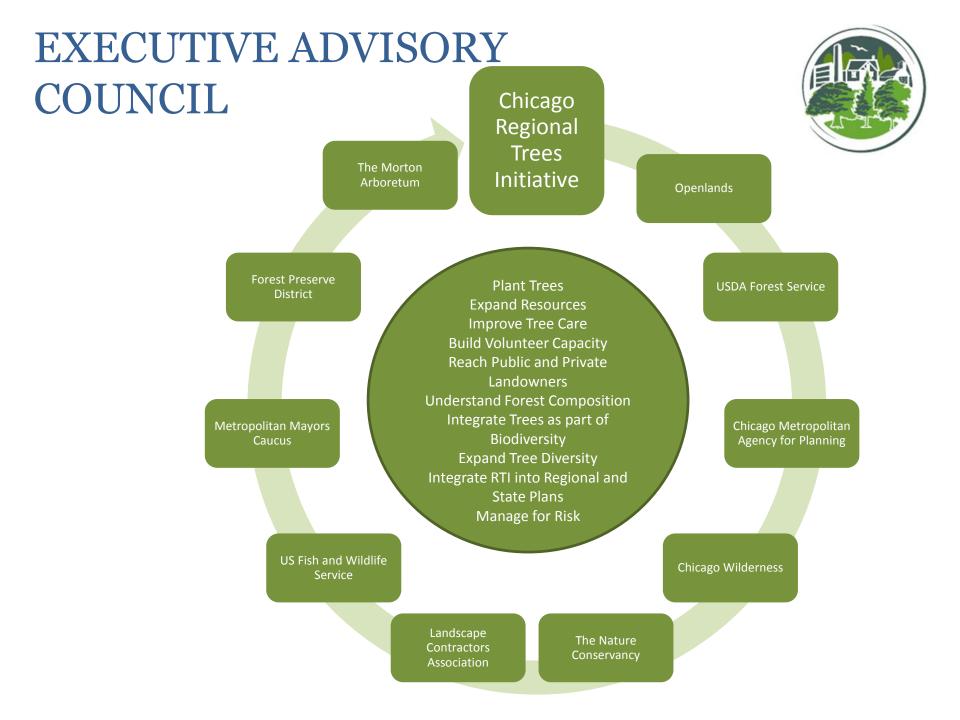
- o Cook
- o Dupage
- o Kane
- o Kendall
- o Lake
- o McHenry
- o Will



Chicago Regional Trees Initiative









Collaborative Approach to Build Capacity

Build municipal capacity and planting

Improve infrastructure and design specification for trees

Leverage funding for trees and tree care

Increase nursery capacity and diversity

Build consensus and application of correct practices

Regional Trees
Initiative
Speak with One Voice
Inspire Action

Expand private property knowledge and planting

Improve wildlife habitat and ecosystem services

Educate on strategies to manage for risk – including invasive species

Working Groups



Tree Stewardship and Planting



Trees and Green Infrastructure



Communications & Education



Risk Assessment



Composition



Industry and Associations



Resources

-Build Volunteer Training – TreeKeepers

-Private Property Education

-Build Capacity and Opportunities for Planting

-Short Course

-Research

-Outreach

-Integrate

Biodiversity Recovery Plan

-State Urban Forestry Plan

-Green Infrastructure Vision

-GoTo 2040

Ordinances

-Research

-Outreach

Mentor Network

-Identify Key Messages

-Gather and/or Develop Materials

Develop Materials
-Develop Message

-Develop Messag Distribution Strategy

-Build Website

-Intranet

--Outreach

-Invasive Pests and Pathogens

-Tree Failure

-Climate Adaptation

-Research Outreach -Regional Tree Census

-Urban Tree Canopy Assessment

> -Oak Recovery Mapping

-Green Infrastructure

-Analysis

-Operational Capacity

-Technical Training

-Consistent Standards and Specifications

-Nursery Production and Resources

-Research -Outreach -Collaborate on Funding Opportunities

-Build on Existing Programs

-Outreach



Our Trees.

Our Communities.

Foundation

Forest Composition Operations Capacity



Forest composition workgroup



- Determine a realistic and obtainable canopy cover goal for the region
- Ascertain an appropriate age and species distribution
- Develop achievable regional planting goals



Forest composition workgroup



- Determine a realistic and obtainable canopy cover goal
- Ascertain an appropriate age and species distribution
- Develop achievable regional planting goals





Chicago's regional forest

- Published in 2013
- Sampled 1400 plots
- Across 7 county region
- Recorded
 - Species
 - Diameter at breast height
 - Canopy cover





Urban Trees and Forests of the Chicago Region

David J. Nowak Robert E. Hoehn III Allison R. Bodine Daniel E. Crane John F. Dwyer Veta Bonnewell Gary Watson





Number of trees

157,142,000

Canopy cover (trees and shrubs)

21.0%

Most dominant trees by stem count

European buckthorn, green ash, boxelder, black cherry, American elm

Most dominant trees by leaf surface area

Silver maple, boxelder, green ash, European buckthorn, black walnut

Carbon storage

16.9 million tons (\$349 million)

Pollution removal

24,170 tons/year (\$183 million annually)



- Invasive species are a problem
- Pre-settlement species (especially oaks and hickories) are not abundant
- Ashes and maples are very common







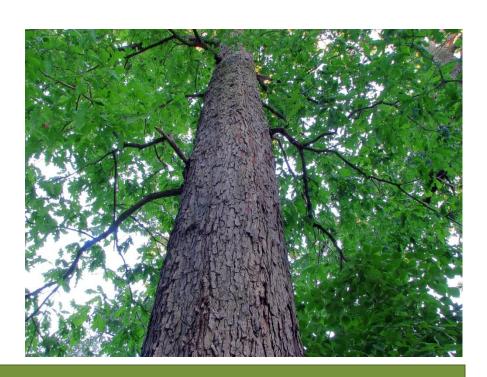


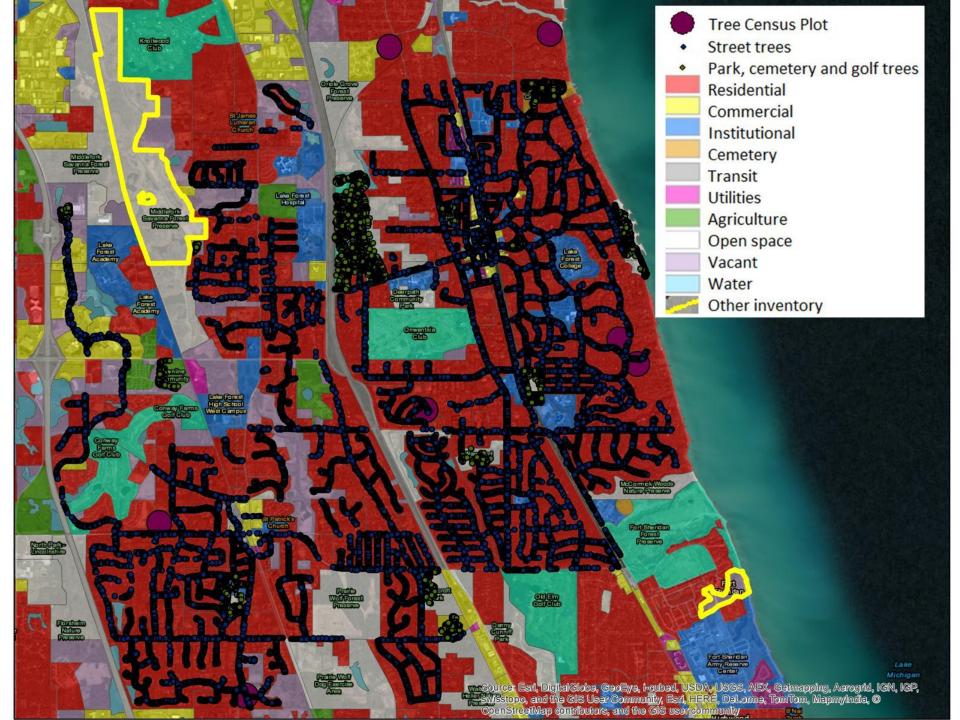
"A state of transition"

Data types



- Composition distribution
- Age class distribution
- Canopy cover





Canopy cover



- Remotely sensed
 - o LiDAR
 - o Flyover and satellite imagery



Urban tree canopy









Our Trees.
Our Communities.
Our Future.



Urban tree canopy

- Seven county region
- ½ meter resolution
- Seven land cover types
- Cook county is done!
- Rest of the region in September









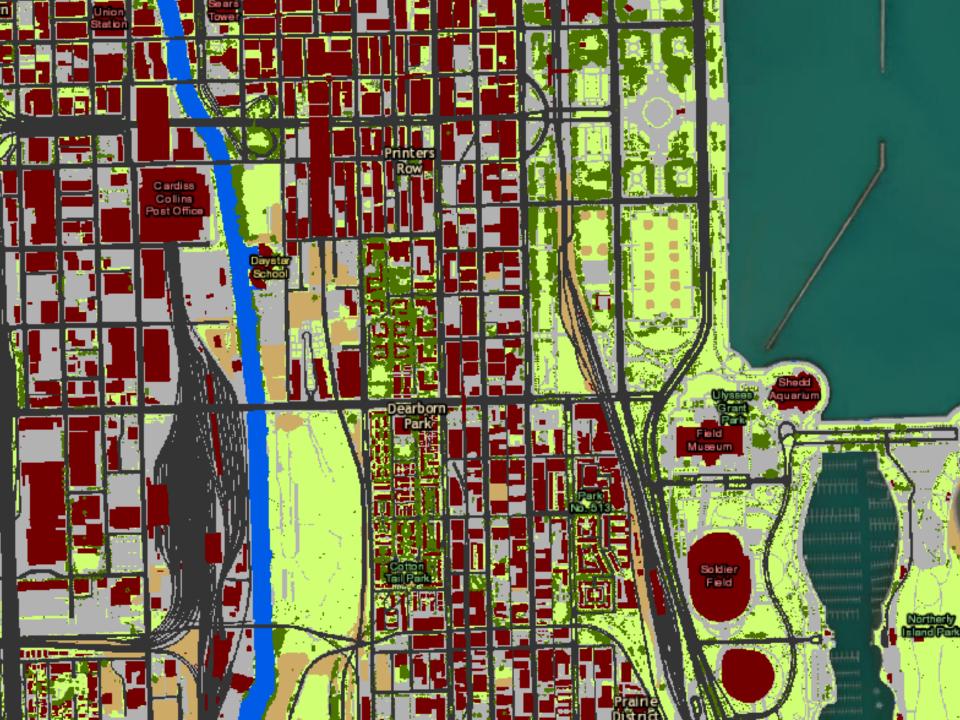






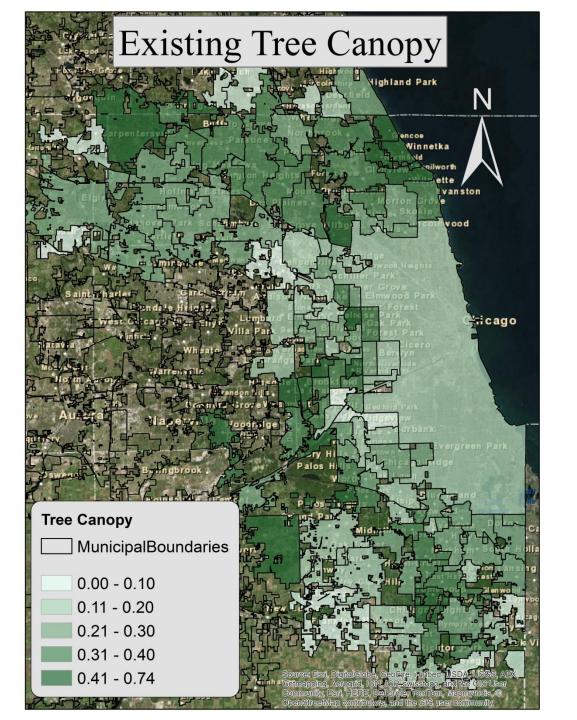


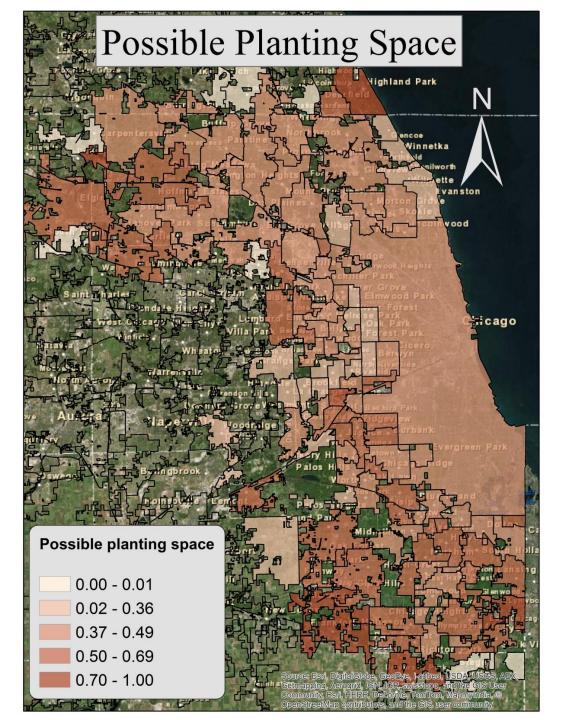






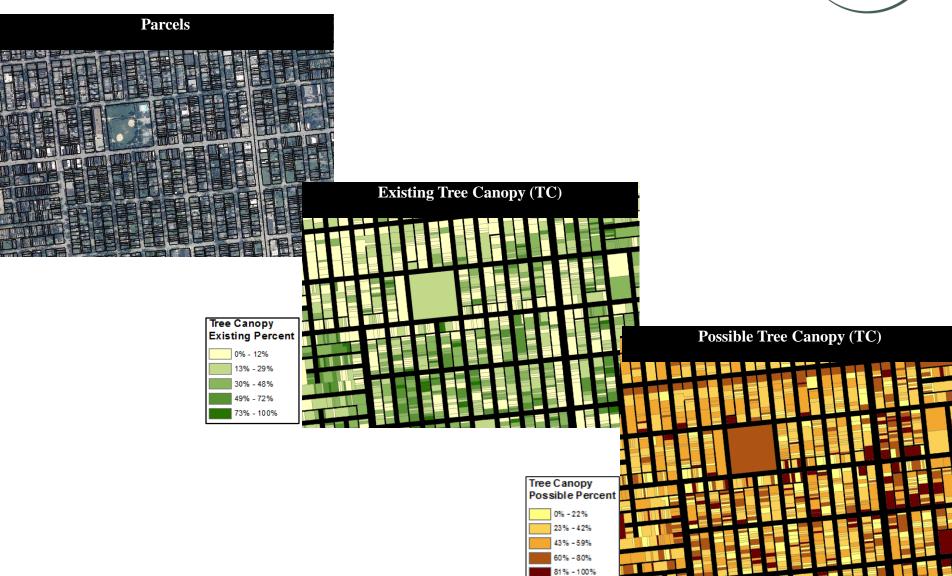
- Identify priority places to plant
 - Gaps in tree canopy





Urban tree canopy

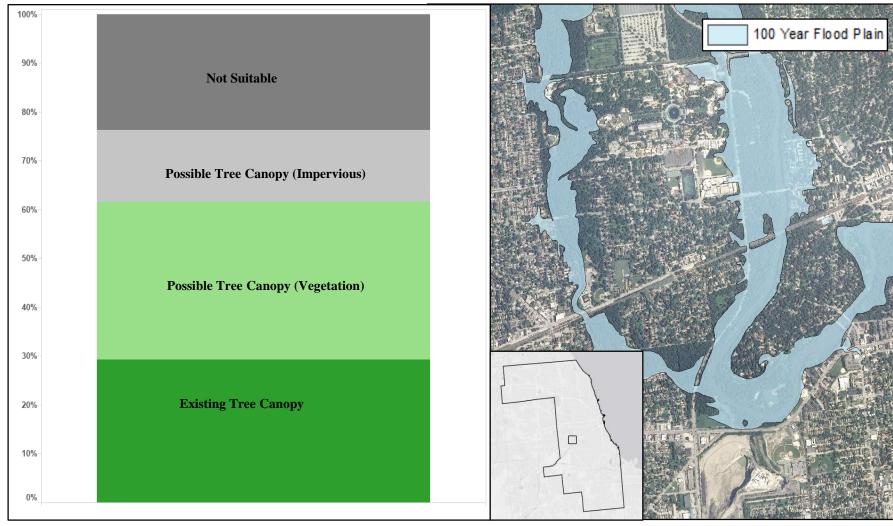




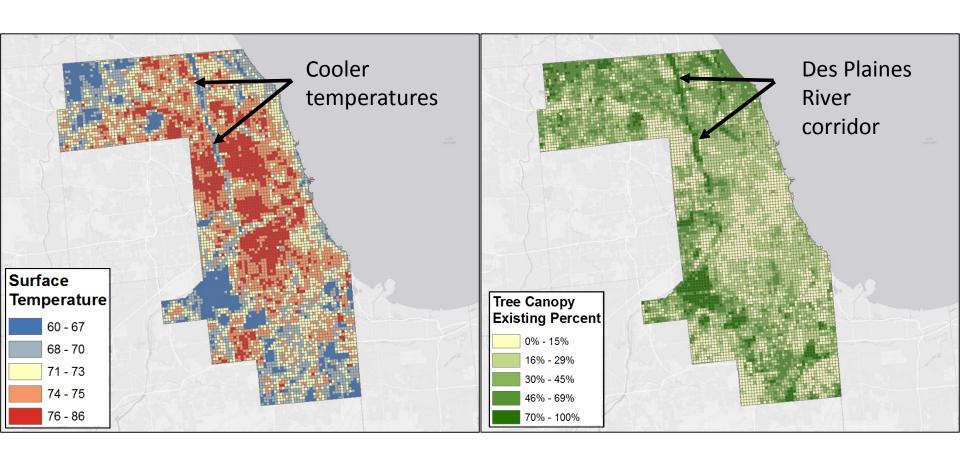


- Identify priority places to plant
 - Gaps in tree canopy
 - Green infrastructure planning









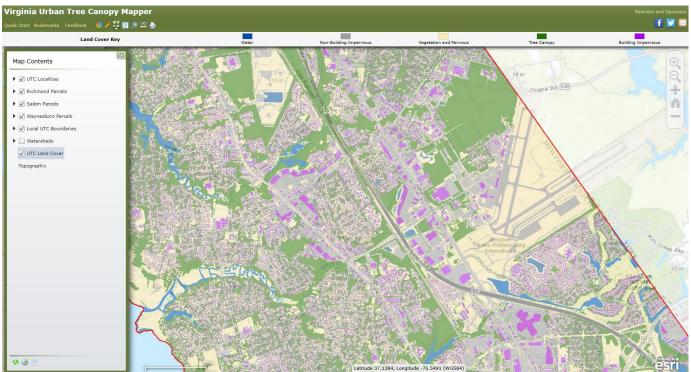


- Identify priority places to plant
 - Gaps in tree canopy
 - Green infrastructure planning
 - Social justice
 - Decrease crime
 - Decrease health maladies
 - Increase property values

How can you get these data?



- Download the file
 - Hosted on CMAP's datahub
- Interactive maps
 - Field Museum and CRTI to make interactive maps



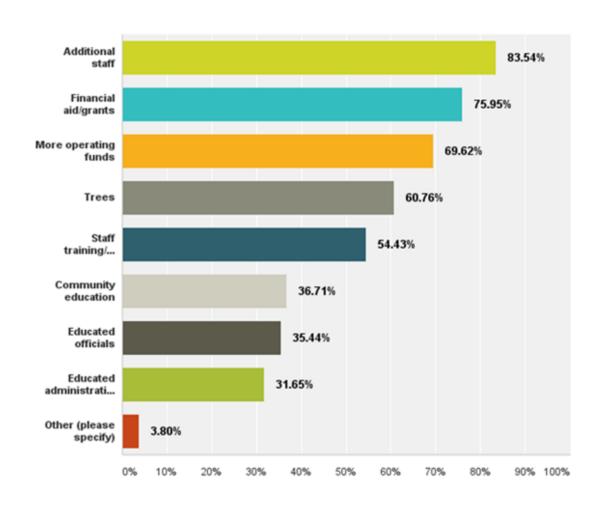
Interactive maps



- Tree canopy
- Possible planting space
- Heat island
- Socio-economic factors
- Health issues

Operations Capacity





Climate Change Response Framework Home Our Approach Projects Products Partners Demos Resources Contact What is the Climate Change Response Framework?



Partnerships



Vulnerability Assessments



Forest Adaptation Resources



Demonstration Projects



The Framework is a collaborative, cross-boundary approach among scientists, managers, and landowners to incorporate climate change considerations into natural resource management. It provides an integrated set of tools, partnerships, and actions to support climateinformed conservation and forest management.

Six Framework projects encompass 19 states, including 14 National Forests and millions of acres of forestland. Each regional project interweaves four components: science and management partnerships, vulnerability assessments, adaptation resources, and demonstration projects. Learn more about how the components interact to build a flexible, scalable, and effective Framework at Our Approach. Use the interactive map to learn more about Framework activities in your region.



Trainings



- Forestry Management Plans and Ordinance Development
- Community Trees Network
 - May 7th
- Annual Celebration and Recognition Event
 - July 14th
- Urban Forestry Basic Training
 - August 20th and September 10th
- Risk Assessment and Management Conference
 - December 2nd
- Corridors and Trees (IDOT, Metra, Utilities)
- Contract Growing
- Extending Your Resources Volunteers
- Climate Vulnerability and Adaptive Capacity

Questions



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