### Winter 2025

## i-Tree International Academy







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## i-Tree International Academy



### **Helpful guidelines for this session:**

- Please mute your audio during presentations
- Use chat window for comments and questions
- Please be patient we will try to answer all questions

#### i-Tree website:

www.itreetools.org

#### i-Tree Support email:

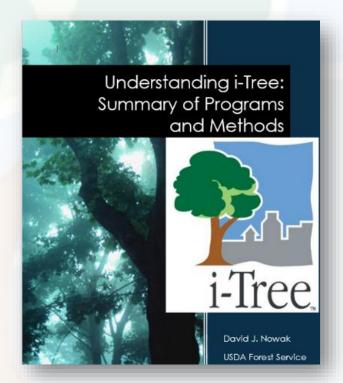
info@itreetools.org

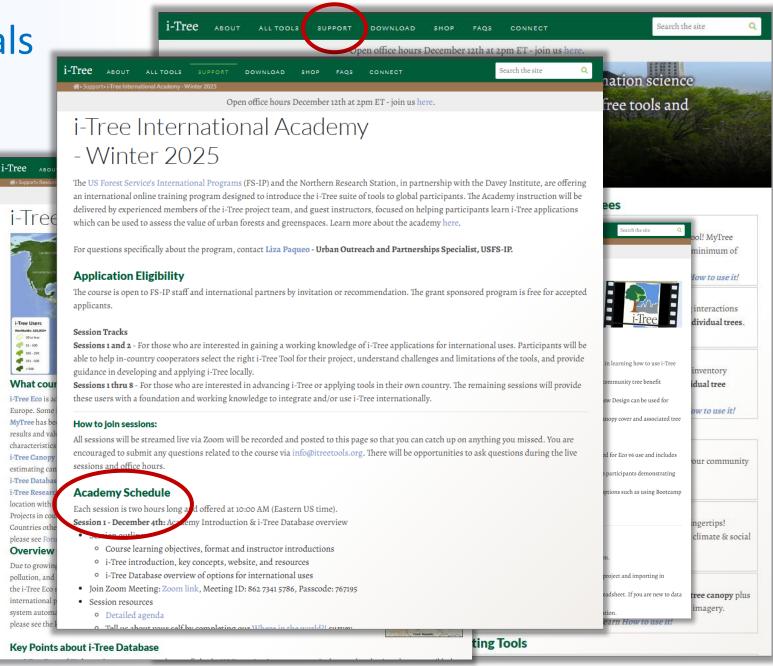


### Website & Course Materials

### www.itreetools.org

- Links for all tools
- Manuals and videos
- International reports





### *Winter 2025*

## i-Tree International Academy



Meet the i-Tree Team!

Scott Maco
The Davey Institute

Jason Henning The Davey Institute USDA Forest Service

Krista Heinlen
The Davey Institute
USDA Forest Service

Ana Castillo
The Davey Institute

Dave Bloniarz
USDA Forest Service
Northern Research Station

Akshat Tyagi Give Me Trees Trust India

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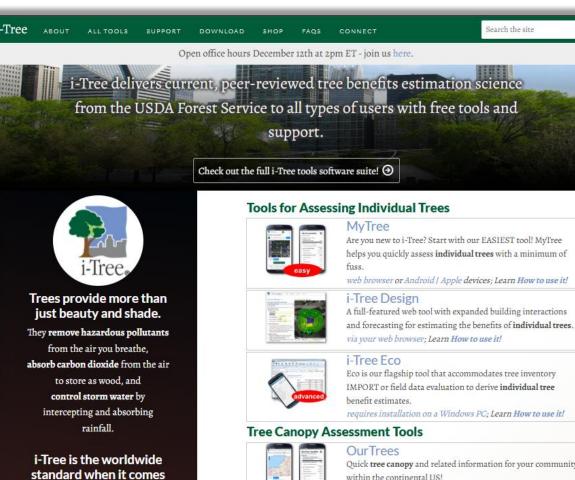
info@itreetools.org



## You Are Here/Plan for today

- Session 6: Processing Data
  - Inventory methods
  - Input considerations
  - Thinking through project needs

- **Next Steps: Data Reports** 
  - Understanding what the data means
  - Communicating data
  - **Action Plans**



to quantifying the

benefits that trees

provide.

Click here to learn more.



Quick tree canopy and related information for your community within the continental US!

Search the site

web browser or Android | Apple devices



#### i-Tree Landscape

US tree canopy and Census maps/data at your fingertips! Identify priority planting & protection areas for climate & social

via your web browser; Learn How to use it!



#### i-Tree Canopy

From your chair, easily estimate land cover and tree canopy plus benefits using random point sampling on aerial imagery. via your web browser; Learn How to use it!

#### **Tree Planting Tools**



## Turning i-Tree into Action

i-Tree Academy Session 7

## How to put the i-Tree tools to work



### **Showing trees provide benefits**

- Education
- Outreach
- Communication

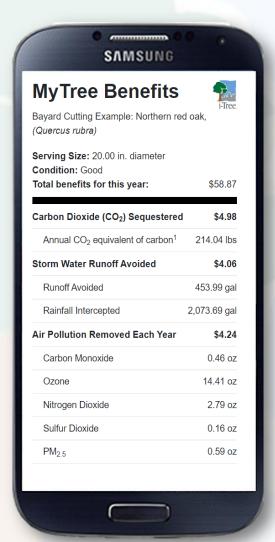
### **Assessing what you have**

- How many trees? How much canopy?
- What benefits are they providing?
- Inform policy makers

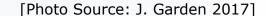
### Making a plan

- Strategic management
- Where do trees do the most good?
- · Maximize tree benefits

## **Engagement and Outreach**











**Engagement and Outreach** 

CLICK ON ANY IMAGE BELOW TO DOWNLOAD AN EDITABLE PDF FILE FOR YOUR OWN USE.









Courtesy Jenni Garden Edge Env. South Adelaide, AU

Delve into the wonderful world of the City of Tea Tree Gully's trees

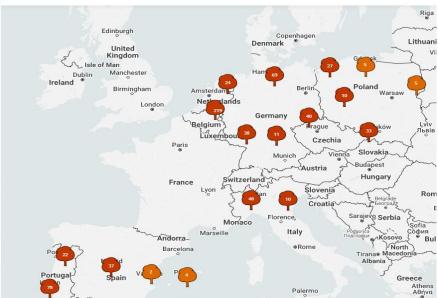


https://www.itreetools.org/support/resourcesoverview/marketing-i-tree

### **#EUTreeTag Campaign**







www.treetags.eu/en

TreeTags map



3

39 followers 1mo • 😯

Today, as the European TreeTag Campaign unfolds across Europe, the southwest region of Poland, including several participating cities, is facing severe flooding.

While local events have prevented some of us from fully carrying out the campaign, this situation only strengthens our belief in the need to raise awareness about the vital role trees play in our environment — especially in their water retention and soil reinforcement capacities.

Despite the challenges, we proudly placed approximately 80 TreeTags on trees across Poland today, reminding everyone of the critical benefits trees provide.

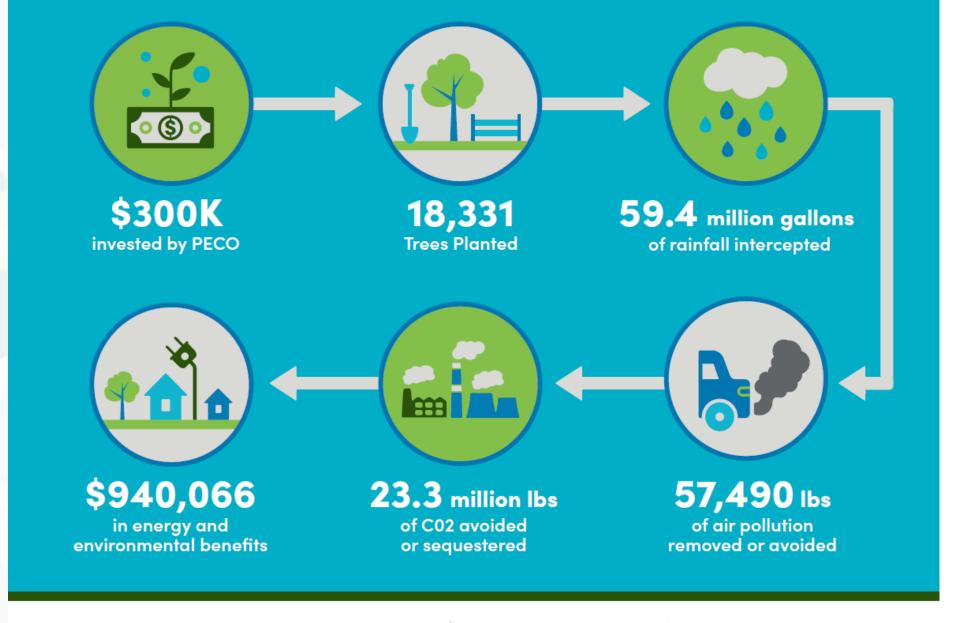
Let's continue working together to spread this important message, now more than ever.

The map of TreeTagged trees is available here: https://lnkd.in/d3KJ2AzQ

#EUTreeTag #TreeTagCampaign #SustainableFuture #UrbanForestry #ClimateResilience #NBTM



# Engagement: Infographics

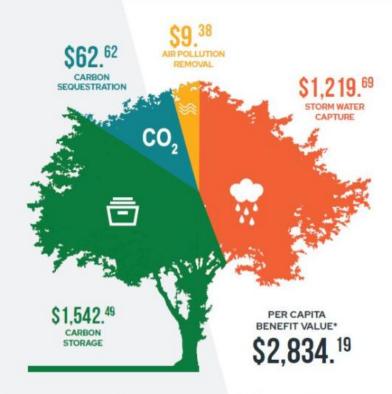






#### 2019-2021 Tree Planting

Projected 20 year cumulative values Source: US Forest Service Northern Research Station & iTree



#### What do your community's trees do for you?

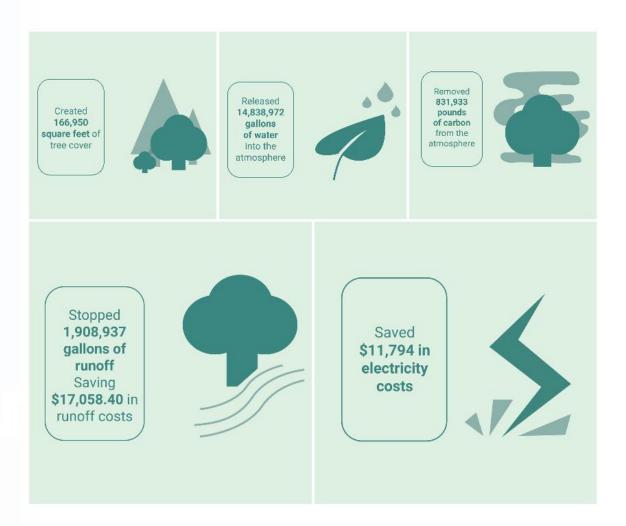
Trees provide substantial added value to the quality of life of Wake County's residents. The ecosystem services contributed to the community by its tree canopy infrastructure can be quantified and valued on an individual level.

Over their lifespan, the county's trees have stored an estimated accumulated total of 9.04 tons of carbon per county resident, translating to a per capita carbon storage value of \$1,542.49.

Per resident, Wake County's tree canopy annually removes 19.5 pounds of air pollution, capture 7,174 gallons of stormwater and absorbs 734 pounds of carbon. These vital eco-services translate to an annual per capita value of \$1,291.70.

The combined per capita benefit value of Wake County's tree canopy is estimated to be \$2.834.19.

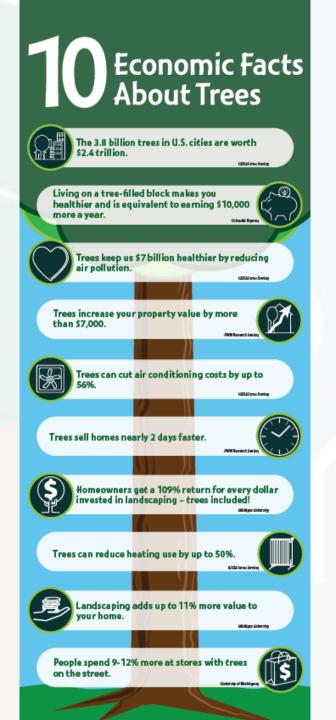
\*Per capita refers to the average value per Wake County resident. As of 2020, Wake County had a resident population of 1,129,410 with a tree canopy valuation of \$3,200,958,479.



Baltimore Tree Trust

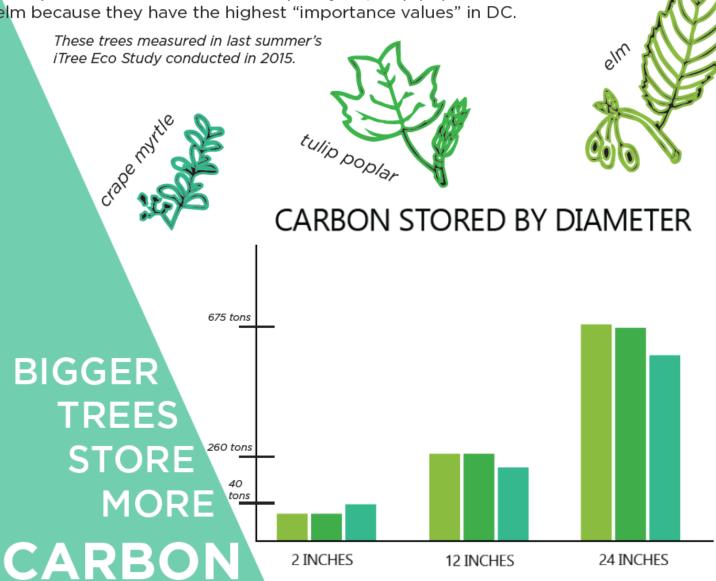
Spring 2022 Season Analysis

## WAKE COUNTY LAND COVER ANALYSIS &TREE CANOPY ASSESSMENT



### CARBON STORED GRAPH

Below is a table showing the amount of carbon in differnt size and species of trees. We chose crape myrtle, tulip poplar and elm because they have the highest "importance values" in DC.



## Australia: Complete Inventory for Community Engagement







Jenni Garden

# Define your goals:

## Benefits data for community engagement

Change behavior: people value tree benefits more

Reduce barriers: fear/risk, development/space, lack of knowledge

Desired outcomes: more trees retained on private land, canopy cover across city improved, increased benefits

Strategy: surveys, tree tags













# Influencing policy: Street tree value





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#### **About MTNYC**

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Educate

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#### **Quick Links**

ATTEND A WORKSHOP
ADOPT A TREE
ATTEND A TREE PLANTING
REQUEST A STREET TREE
PICKUP A FREE TREE
REGISTER YOUR TREE
APPLY FOR A MINI-GRANT

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follow 7.1K

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Please Wait



Press Releases



## NYC MAYOR MICHAEL BLOOMBERG AND BETTE MIDLER PLANT TREE ONE - THE FIRST OF ONE MILLION TREES - AND LAUNCH MILLIONTREESNYC

Today New York City Mayor Michael R. Bloomberg and New York Restoration Project (NYRP) Founder Bette Midler launched the MillionTreesNYC initiative to plant and care for one million trees throughout the City's five boroughs in the next decade. The Mayor and Ms. Midler planted a street tree in the Morrisania section of the Bronx – a neighborhood with too few trees and high rates of asthma – and declared the Carolina Silverbell to be the first of one million trees.

Through a mix of public and private plantings, MillionTreesNYC, an important initiative of *PlaNYC*, will expand New York City's urban forest by 20%. All New Yorkers will share in the many benefits that come from planting trees – more beautiful neighborhoods and parks; cleaner air and water; higher property values; energy savings; cooler summer streets, yards, and public open spaces; and a healthier, more environmentally sustainable City.

MillionTreesNYC will get New Yorkers involved in the planting and caring of trees for the pext decade

Mayor Bloomberg and Bette Midler were joined at the announcement by First Deputy Mayor Patricia E. Harris, Deputy Mayor for Economic Development and Rebuilding Daniel L. Doctoroff, Parks Commissioner Adrian Benepe, City Planning Director Amanda M. Burden, Director of the Mayor's Office for Long-term Planning and Sustainability Rohit T. Aggarwala, United States Forest Service Abigail Kimbel and The Home Depot Foundation President Kelly Caffarelli.

"New York City has always been a place of big dreams and big ideas – and our Administration has never been afraid to embrace them," said Mayor Bloomberg. "Over the next decade, with our friends at the New York Restoration Project, we are going to plant an unprecedented one million new trees across the City. *PlaNYC* is our plan to make New York a greener.



#### New York City Street Tree Map

Explore and Care For NYC's Urban Forest

Map | My Trees | Learn | Groups

Text Size **T**‡

Language AZ

### **Tree Care Activities**

There are no activities reported.

**Record Tree Care** 

### **Ecological Benefits**

★ Stormwater intercepted each year

468 gallons Value: \$4.63

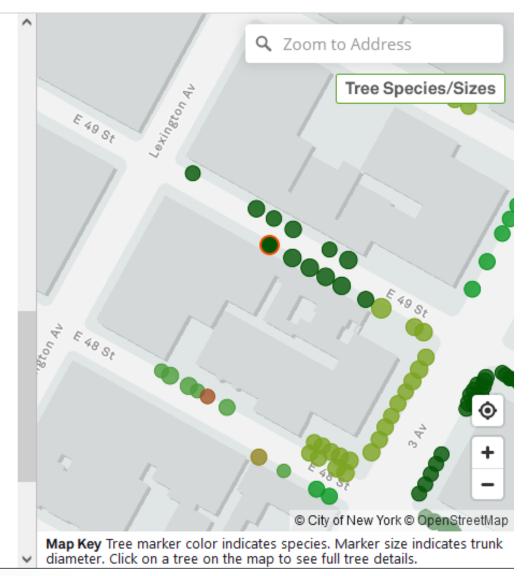
477 kWh Value: \$60.27

Air pollutants removed each year

1 pounds Value: \$4.3

Carbon dioxide reduced each year

224 tons Value: \$0.75

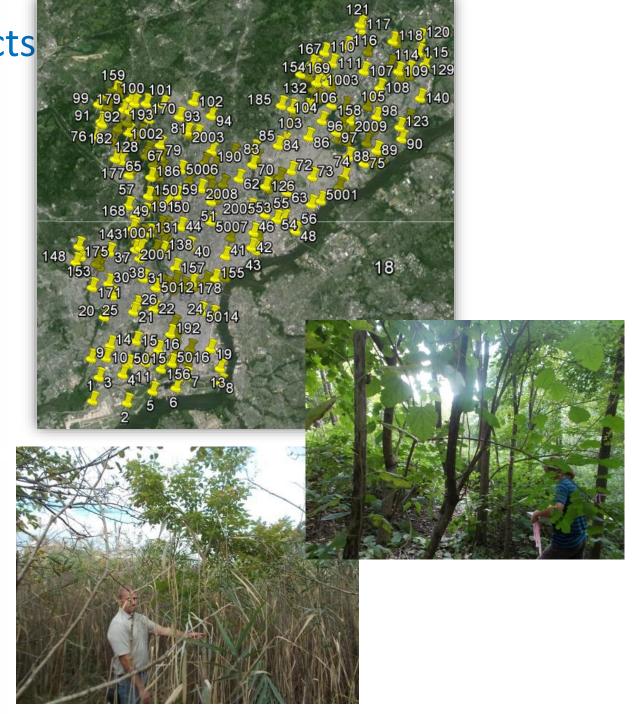


i-Tree Eco Example: Citywide projects

### **Philadelphia Citywide assessment**

### Sample (plots)

- Typically 200 circular plots
- Random locations in area of interest
- Plot size 1/10<sup>th</sup> acre



## Stratification can be powerful

City owned parkland is 9% of the city

Trees on city owned parkland account for 40% of carbon storage and sequestration

Feature	Estimate
Number of trees	1,100,000
Tree Cover	64%
Carbon Storage	273,000 tons (\$19.4 million)
Pollution Removal	179 tons/yr (\$6.6 million/yr)

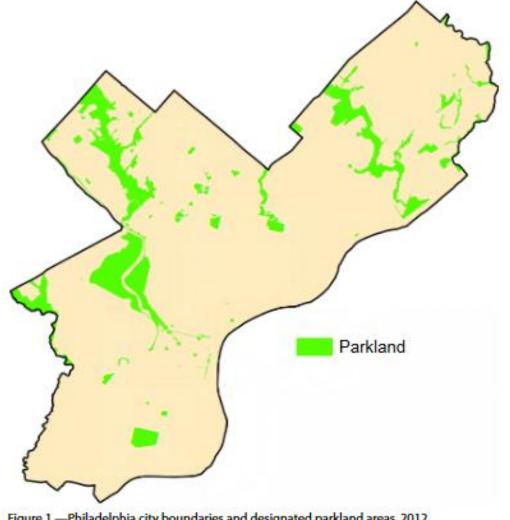
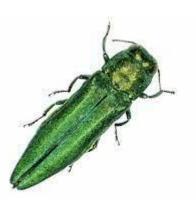


Figure 1.—Philadelphia city boundaries and designated parkland areas, 2012.

## i-Tree Eco Example: Large project with targeted results

Ash Trees:
City stands to lose
7.1% of its forest
and millions in
benefits to
emerald ash borer



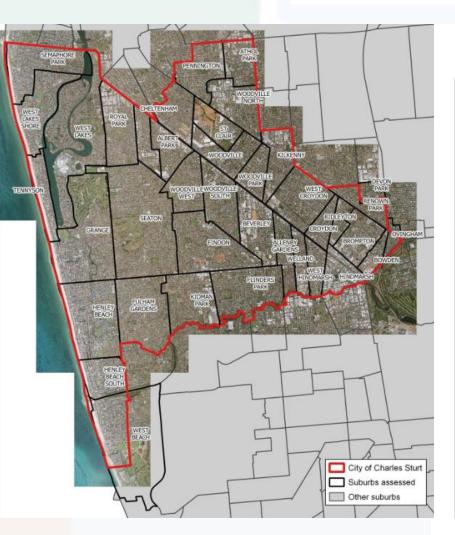
Parameter	Estimate	Units	% of Total City	Species Group Rank
Population	206,996	number	7.1	3
Density	2.3	trees/acre		3
Carbon stored	35,742	tons	5.1	7
Carbon sequestered	1,025	tons/year	3.8	11
Net carbon sequestered	935	tons/year	4.0	10
Leaf area	4,818	acres	5.2	7
Leaf biomass	1,936	tons	6.3	3
Trees, diameter 1-3 in.	111,777	number	$54.0^{a}$	2
Trees, diameter >18 in.	10,557	number	5.1 <sup>a</sup>	12

<sup>&</sup>lt;sup>a</sup> Percent of all ash trees

# Tree Canopy Cover in the City of Charles Sturt

#### **Benchmark Assessment**





	Tree (	canopy	cover	lmp	ervious c	over	Planta	ble space	cover
(a) Total city trends	14.81%	15.51%	4.28% <b>•</b>	55.25%	57.23%	60.16%	23.63%	21.14%	19.38%
(b) Private land trends	15.06%	15.17%	13.54%	57.62%	60.71%	64.22%	24.91%	21.82%	20.05%
(c) Public land trends	14.28%	16.24%	15.91%	50.03%	49.58%	51.23%	20.80%	19.66%	17.92%
	1998	2008	2014	1998	2008	2014	1998	2008	2014

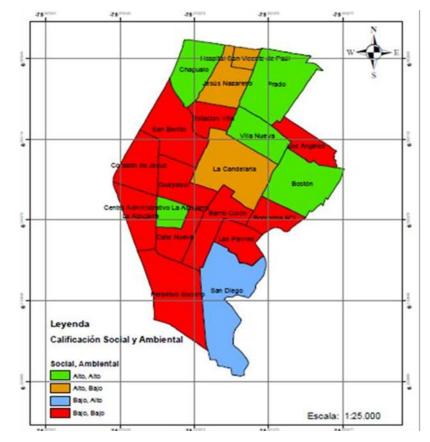


## Ecological and Social Indicators in Comuna 10, Medellín



## Ecological variables (i-Tree Eco)

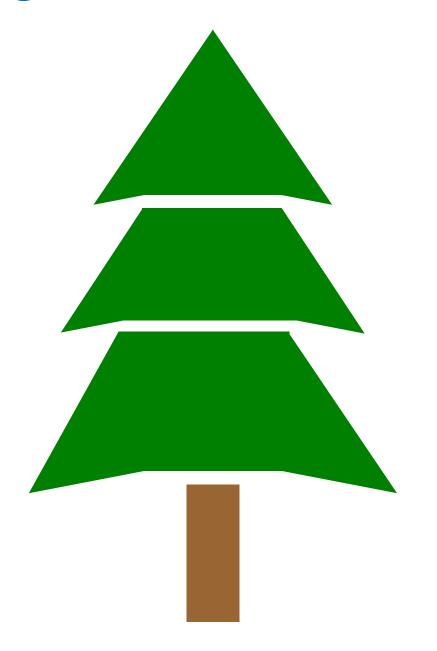
- Number of species
- Number of trees/ha
- Carbon sequestration (ton/year\*ha)
- Pollutant removal (Kg/year\*ha)



## Social variables (STEW-MAP)

- Number of organizations
- Number of connections among organizations
- Number of activities of each organization
- ✓ Neighborhoods in Green: High values in both social and ecological variables
- ✓ Neighborhoods in Orange: High values in social variables, Low values in ecological variables
- ✓ Neighborhoods in Blue: Low values in social variables, High values in ecological variables
- ✓ Neighborhoods in Red: Low values in both social variables and ecological variables

## Turning i-Tree Into Action



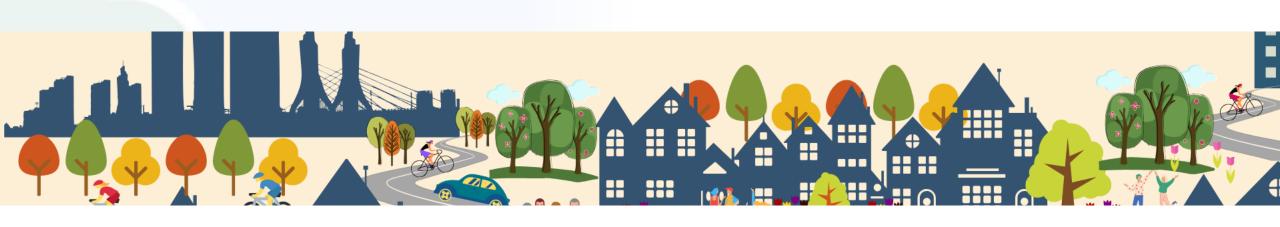
### Potential applications of i-Tree

- Outreach/Education
- Knowing your tree resource
- Support Strategic Management

### Key considerations

- What outcomes would you like to see?
- What audience are you trying to reach?
- There are many different ways to use i-Tree
- Combine tools and try multiple approaches
- Use data to tell a story
- There are lots of examples and resources





# Urban Tree Inventory of Dhaka



## ABOUT DHAKA, **BANGLADESH**



Dhaka ranks world's sixth most 

Population has increased by 3.39% since last year

The New York Times Style Magazine

The Bangladeshi Traffic Jam

Of all the dysfunctions that plague the world's megacities, none may be more pernicious than bad (really, really bad) traffic. Sitting still

In Pictures

Gallery | Climate Crisis

**That Never Ends** 

Give this article

in Dhaka, where bad desis

By Jody Rosen





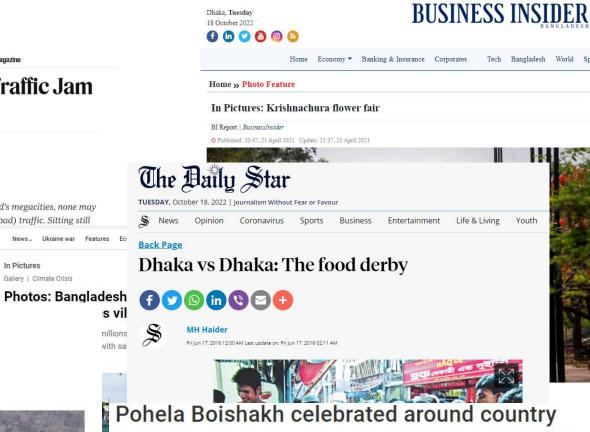


populous city



Wed Sep 28, 2022 12:11 PM Last update on: Wed Sep 28, 20

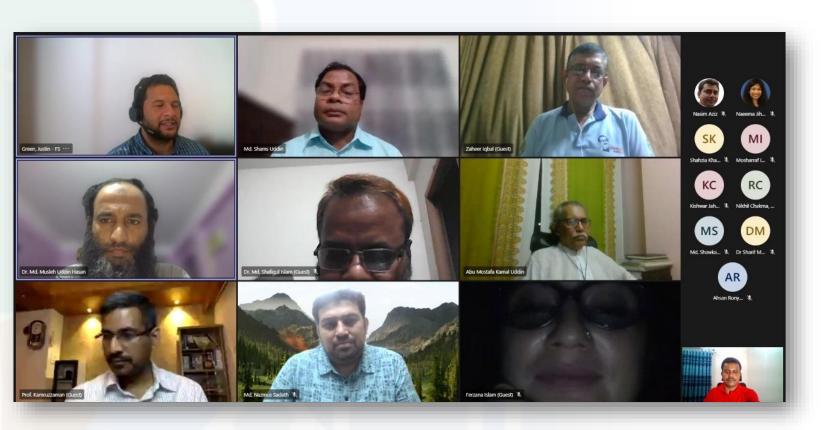




#### Pohela Boishakh celebrated around country

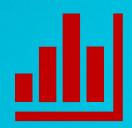


## **Kick-off**



- Multi-stakeholder meeting
- Representatives from 14 different organizations
- Forest Department, Universities, City Corporations, Inventory Experts, Civil Society

## Why urban tree inventory in Dhaka?



Establish the baseline of urban trees of Dhaka



Evaluate selected urban tree benefits



Create awareness on conservation



## **Preparations**

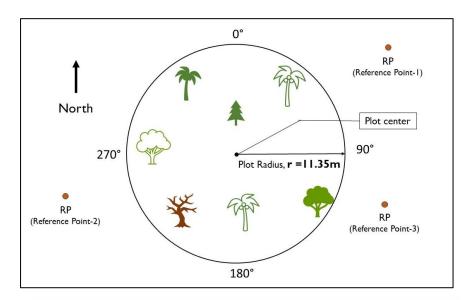
#### Ia. ZONING: Satellite imagery analysis

Zone	DN	CC	DSCC		
	Area (sq.kı	m) Plots*	Area (sq.km)	Plots	
Trees	16	35	12	47	
Built up with scatter trees	114	241	13	51	
Others	52	110	70	272	
Total	183	386	95	370	

\*Circular plot radius- 11.35m

Ib. SAMPLING: Stratified random Confidence interval- 95% Margin of error- 05%

- 2. TRAINING MANUAL
- 3. Standard Operating Procedure (SOP)
- 4. Pollution (2012-2020) and rainfall (2015-2020) data harmonization





## **Capacity Building**

**Training-** Day 1: theory; Day 2: demonstration, Day 3-4: practice and evaluation

### **Skills developed**



finder (Height, Crown willin)

> GPS (Location)



Suunto
Clinometer
(Bearing, direction)



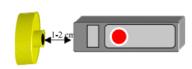
Dia Tape (DBH)



GRS
Densitometer
(Crown missing)



Measuring Tap (Distance)



DME (Plot radius)



**Tab** (Data input)



## Fieldwork and Teamwork

24 enumerators from 5 Universities with background of Forestry, Botany, and Environmental Science



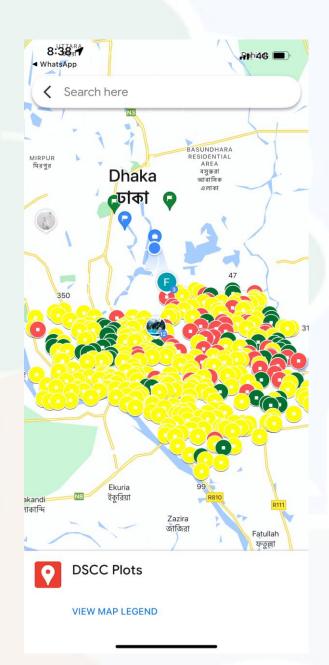






- DNCC data collected in 2021 & analyzed in 2022
- DSCC data collected in 2022 & analyzed in 2023

### Real Time Monitoring and Navigation















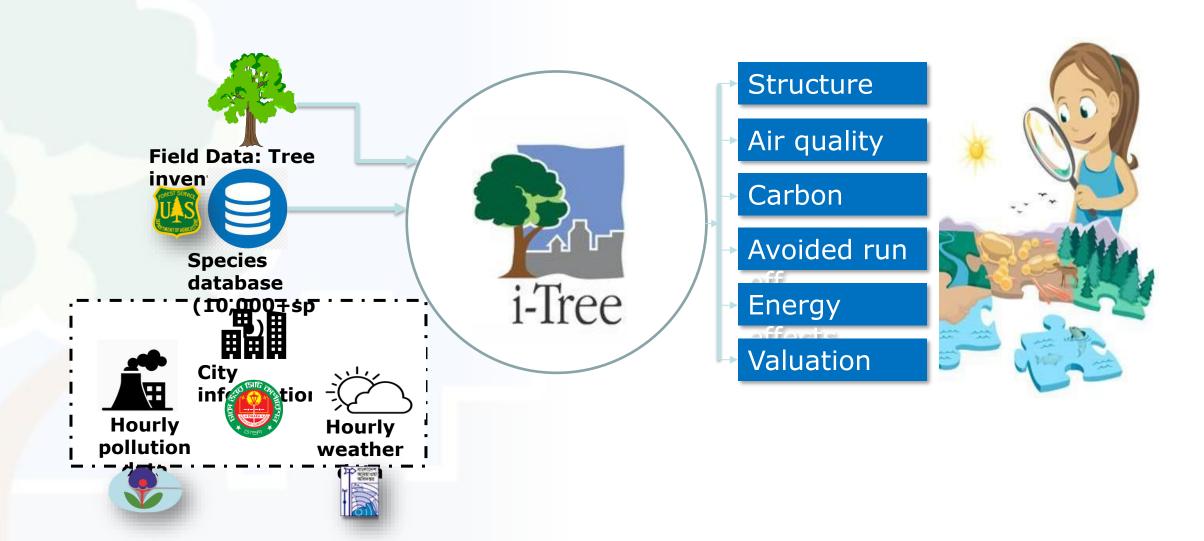


## **Analysis**





## i-Tree process



$\Box$	NI	C	
	INI		
$\boldsymbol{\boldsymbol{ u}}$	l v	V.	

DSCC



10.5 %

10.8%



98.74 Thousand Metric Tons (Tk 16.8 Crore)

103.1 Thousand Metric Ton: (Tk 17.1 Crore)



319.3 Metric Tons/year (Tk 26.2 Crore/year)

219.2 Metric Tons/year (Tk 17.5 Crore/year)



11.12 Thousand Metric Tons (Tk 1.89 Crore/year)

10.8 Thousand Metric Tons (Tk 1.79 Crore/year)



26.42 Thousand Metric Tons/ year

27.13 Thousand Metric Tons/ year



603.9 Thousand Cubic Meter/year (Tk 15.4 Crore/year)

378.4 Thousand Cubic Meter/year (Tk 9.38 Crore/year)



## Summary: i-Tree in Bangladesh

#### Completed

# Inventory- 2

# Census-I

#Trained- 250+

# Species to database- 36

#QA/QC R scripts - I

# Organizations worked- 10+

# Organizations consulted - 20+

#### **Achievements**

- Talk of the Town- (800+ registered for a training)
- Urban Forestry Center- (BFD announced it)
- Awareness and engagement- (More organizations working)
- Institutionalization- (Taught in graduate level at IFESCU)

# Stories through photos

















### **Engagement**

নর্থ সাউথ ইউনিভার্সিটির সাথে অংশীদারিত্বের মাধ্যমে ইউএসএআইডি বাংলাদেশ আমাদের এই গ্রহের সুরক্ষায় জলবায়ু পরিবর্তন বিষয়ে পদক্ষেপ নেয়ার আহ্বান জানাতে পেরে গর্বিত। টেকসই উন্নয়ন কর্মসূচিকে শক্তিশালী করার লক্ষ্যে ইউএসএআইডির কমিউনিটি পার্টনারশিপস কার্যক্রমের সাথে অংশীদারিত্বের ভিত্তিতে সম্প্রতি নর্থ সাউথ ইউনিভার্সিটি তাদের ক্যাম্পাসে সেমিনার, ইন্টারাক্টিভ গেমস ও প্রদর্শনীর আয়োজন করেছে যেখানে শিক্ষার্থী ও শিক্ষকদেরকে বায়ু ও মাটি দৃষণের হুমকি, প্রাকৃতিক সম্পদের ক্ষতি এবং জলবায়ু… See more









93 Comments 47 Shares

O Love Comment Comment

**10K** 





USAID Bangladesh ONOvember 14, 2021 · O



SAVE the trees, PLANT more trees: In partnership with the U.S. Forest Service, USAID - US Agency for International Development's Compass

program trained 26 volunteers to conduct a full-scale urban #treemapping exercise in Dhaka North City Corporation (DNCC) using state-of-the-art "i-Tree Eco" technology to monitor and protect trees. The i-Tree Eco software provides valuable information on how trees remove carbon dioxide and improve air quality in cities, reduce storm



স্টামফোর্ড ক্যাপস এবং ইউএস ফরেস্ট সার্ভিসের সঙ্গে







The training ends at the BFRI





ড. ফারহিনা

বএফআরআই এবং ইউএস ফরেস্ট সার্ভিস এর

**3.5**K

15 Comments 28 Shares





### i-Tree International Academy

# Tree inventory with i-Tree Eco in Colima City, Mexico



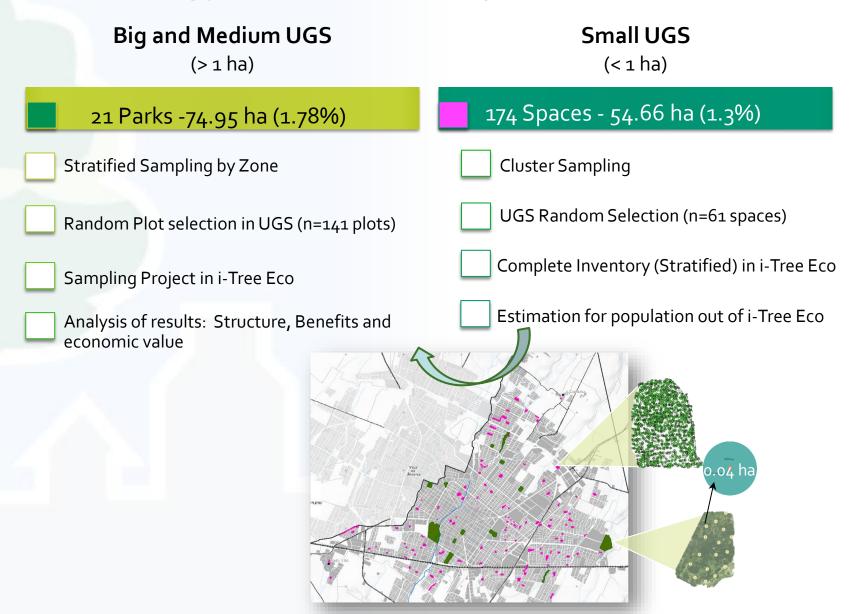
Fabiola Lopez 2022

### Introduction

- Colima municipality is located in western Mexico
- Objective: Conduct a tree inventory and develop a management plan for urban trees in Colima
- i-Tree Eco Workshop for participants involved in the project (IPCO, FONNOR A.C. students, municipality workers and volunteers)

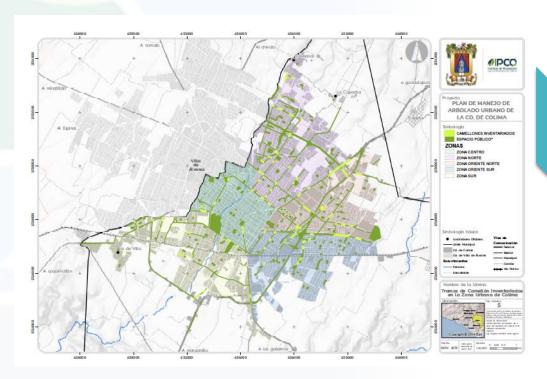


### **Methodology – Urban Green Spaces (UGS)**



### **Methodology - Median Strips**

Street tree Simple Random Sampling – Block Segment Lengths Known (Nowak *et al.*, 2015)



### **Variables**



- Specie
- DBH
- Total height
- Crown base height
- Crown width
- Crown light exposure
- Percent crown missing
- Crown dieback
- Land use
- Task of maintenance

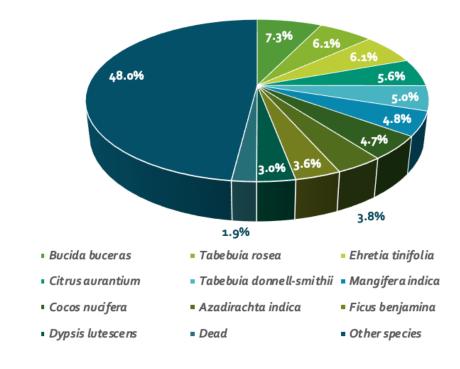


- Land use
- GPS coordinates
- Percent measured
- Tree cover
- Ground cover
- Reference objects



### **Results – Structure UGS**

- Recorded **154 species** in Colima's UGSs
- No species was more than 10% of total trees.
- Total UGSs has 21,541 trees
- Canopy cover (1,301,570 m²)
  represents 3.09% of total city
  area (4,217 ha).







### Results – Benefits UGS



Carbon storage: 8,582.4 Mg

(\$331,423 USD)



Avoided run-off: 12,264.2 m<sup>3</sup>/yr (\$551,627.41)

(\$25**,**074 USD)



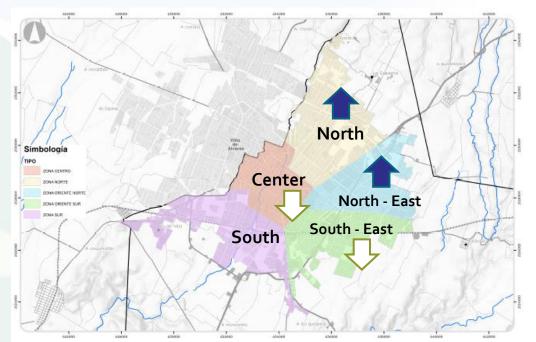
Carbon sequestration: 422.7 Mg/yr



Pollution removal: 6,204.5 Kg/yr

(\$136,963 USD)

(\$16**,**338 USD)



# Enterolobium cyclocarpum

## RIV (15.03) 8.11 % % %

# **Colima Urban Forest Management Plan**

- Benefits generation by zone
- Identification of potencial tree species
- Plant and maintenance strategies



http://ipco.gob.mx/ipco/proyectos/proyectos/ambiental/PM AU.pdf

# Who is using i-Tree in Mexico?

- Municipalities & consultants are using Eco to create tree maintenance or management plans or plant strategies
- NGOs are using it to encourage community engagement and urban greening efforts
- Strength tree advocacy efforts



2018

### San Marcos Neighborhood – Merida City (in process)

1<sup>st</sup> Social Assessment

Survey to know the community perception about trees

Tree Inventory with i-Tree Eco – Tree trial

Measurement of different tree species to estimate benefits and economic value Create a tree trial to show the importance of trees.

Community Engagement Activities

Youth education (Children and university students) Involve in tree plantings.

2<sup>nd</sup> Social Assessment

Survey to know if community have a better perception about trees after the activities

# **Conclusions**

# An i-Tree project shows you:



Communities know what they need!

# **Interdisciplinary uses of i-Tree**

# **University of Dundee Botanic Garden Tree Asset Valuation**

Dundee, Scotland



University of Dundee Botanic Garden

Tree Asset Valuation Report

An i-Tree Eco and CAVAT assessment



<u>University of Dundee Botanic Garden Tree Asset</u> <u>Valuation - Treeconomics</u>

### **Headline Figure**

Structure and Composition		
Number of Trees	1,378	
Number of Species	243	
Most Common Tree Species	Pinus sylvestris, Betula pendula, Eucalyptus gunnii	
Replacement Cost (CTLA)	£1.48 million	
Amenity Valuation (CAVAT)	£38.1 million	

Combined Botanic Garden & Campus Ecosystem Services		
Annual Carbon Storage	633 tonnes	£624,000
Annual Carbon Sequestration	15.7 tonnes	£15,400
Annual Pollution Removal	60.3 kg	£4,400
Annual Avoided Runoff	1,600 m <sup>3</sup>	£2,600
Total Annual Benefits	£22,400	

# **University of Dundee Botanic Garden Tree Asset Valuation**

sustainable

land use

A university asset where Nature-based Solutions (NbS), Conservation of Biodiversity and Human Wellbeing are being explored using STEAM (STEM together with Art), gaining the evidence base for external interventions within

the "Living Lab".

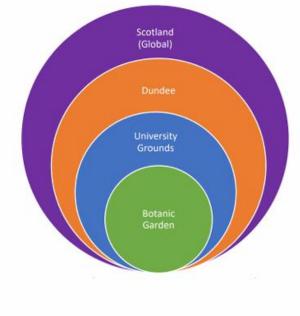


Figure 4: The five interconnected Botanic Garden and Grounds workstreams that are described in the strategic plan (Frediani, 2021).



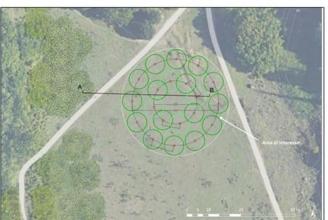
Figure 5: The importance of diversifying green spaces in the city is a new area of focus recently introduced by the gardens, engaging primary school children to codesign a Wee Forest and outdoor learning space in the Maryfield ward.

# Aula Verde Aniene – Rome, Italy



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**Figure 3.** The first picture is a satellite image from Google Earth software showing the location of Aula Verde and nearby citizens' utilities. The second and third images show the project of Aula Verde Aniene and have been extracted from the rendering of the Aula Verde project design prepared by the architect in charge of the regulatory procedure for Aula Verde implementation.

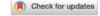


https://www.andreco.org/portfolio/aula-verde-aniene-river/

### Aula Verde Aniene – Rome, Italy

www.nature.com/scientificreports

### **scientific** reports



### **OPEN** Aula Verde (tree room) as a link between art and science to raise public awareness of nature-based solutions

A. Conte<sup>1,2</sup>, R. Pace<sup>0,3,4</sup>, Q. Li<sup>5,6</sup>, S. Carloni<sup>7</sup>, A. Boetzkes<sup>8</sup> & L. Passatore<sup>7</sup>

Nature-based solutions inherently require a multifaceted perspective that encompasses diverse fields. The aim of this project is to develop more effective nature-based solutions, climate action and environmental awareness by breaking down boundaries between disciplines and fostering a co-creative process. Concepts of ecology and urban forestry were combined with the research on political ecology, environmental humanities, land art, regenerative art, performing art, participatory art, and more-than-human art. This process resulted in the creation of Aula Verde Aniene. It is located in an urban park in Rome and consists of a stand of trees arranged in circles with a specific design to give the perception of being in an outdoor vegetated room. The project activities involved community participation through art performances and citizen science initiatives. Regulating and cultural ecosystem services of Aula Verde were assessed using i-Tree Eco software and citizens' surveys. Beyond numerical descriptions of ecosystem services, the manuscript introduces shinrin-yoku as a practice to raise awareness of nature. The distinctive approach here described contributed to convey a sense of belonging to the ecosystem to citizens. The project framework and study findings have been developed to formulate policy recommendations and disseminate a format that can be adapted to diverse locations.

https://www.nature.com/articles/s41598-024-51611-9

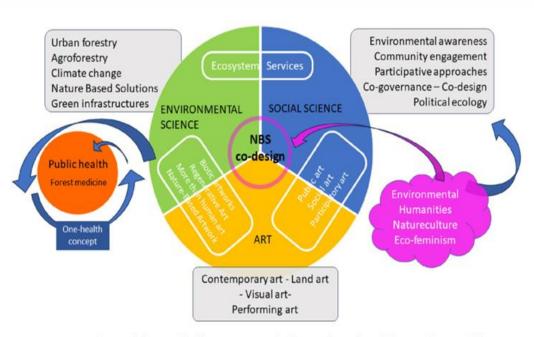


Figure 1. Theoretical framework of the manuscript. The diagram shows the collaboration between different disciplines and the key concepts related to the work. It describes an innovative version of NBS—co design process that take in consideration: art practices, social sciences, political ecology, one health theories and environmental science.

Aula Verde Aniene at

# Beyond the written report

### Infographics, story maps, tree tags, and other unique communication examples

### **Tree tags**

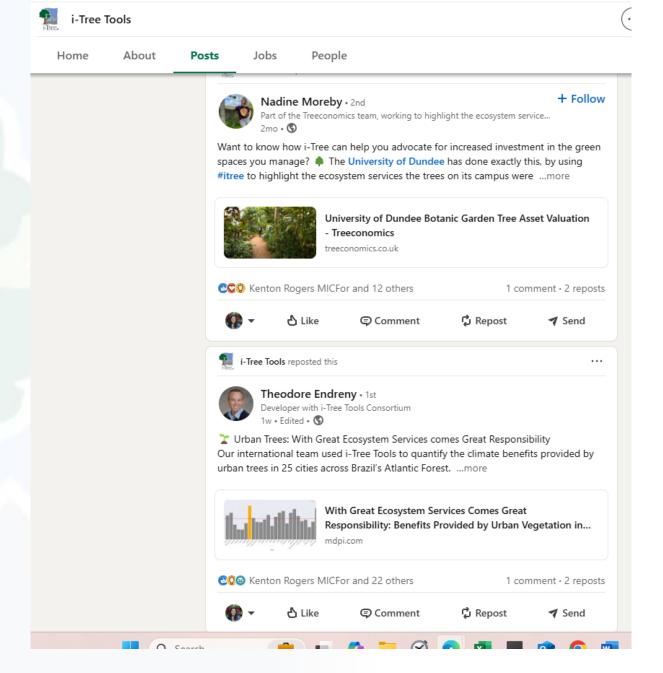
- Clear and concise tree tag from a volunteer urban tree steward in Lancaster PA
  - o Tag image for printing add your own logos and tree details
  - Instructions for using MyTree to fill in your tag
- Editable tree tag pdf from our collaborators at UNRI.

### **Infographics**

- Summarizing benefits provided by plantings supported by PECO Energy Company.
- Liege Infographic for the City of Liege in Belgium shared by Wissal Selmi.
- Casey Trees Carbon Benefits summary brochure.
- One page summary of tree planting for the School of the Art Institute of Chicago.
- Summaries of community forest benefits in the Netherlands shared by BTL consulting. Stadspolder and Den Haag.
- Selected examples from students at the University of Texas Rio Grande Valley created as
  part of their Community Forestry 3301 course with Bill Green Bookmark style, Health
  focus, i-Tree Landscape Comparisons, i-Tree Landscape Summary and i-Tree Canopy
  Summary.

### Story maps and webpages

https://www.itreetools.org/support/resources-overview/beyond-written-report



https://www.linkedin.com/company/i-tree-tools

