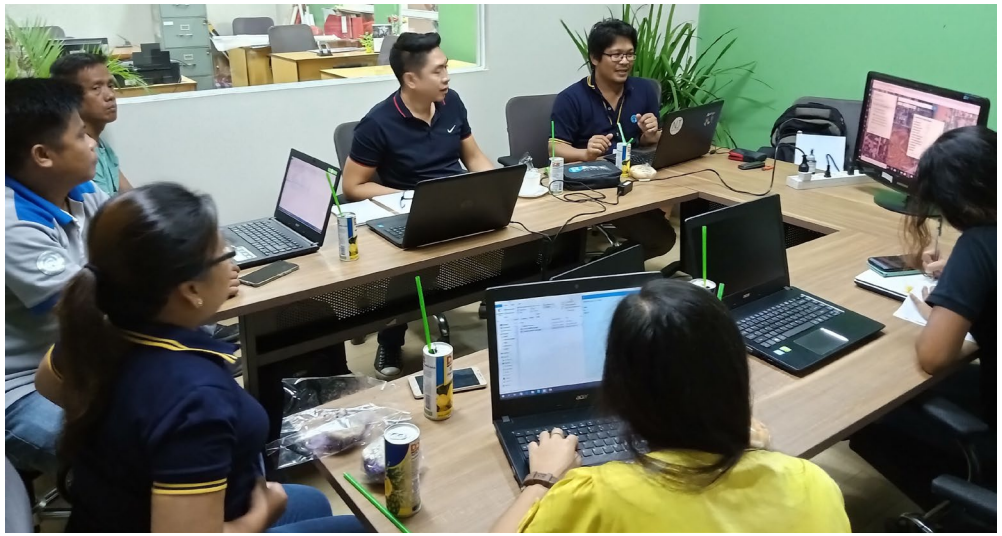
Plan for today

1. Intro to i-Tree
2. i-Tree Landscape
3. i-Tree Canopy
4. i-Tree Planting

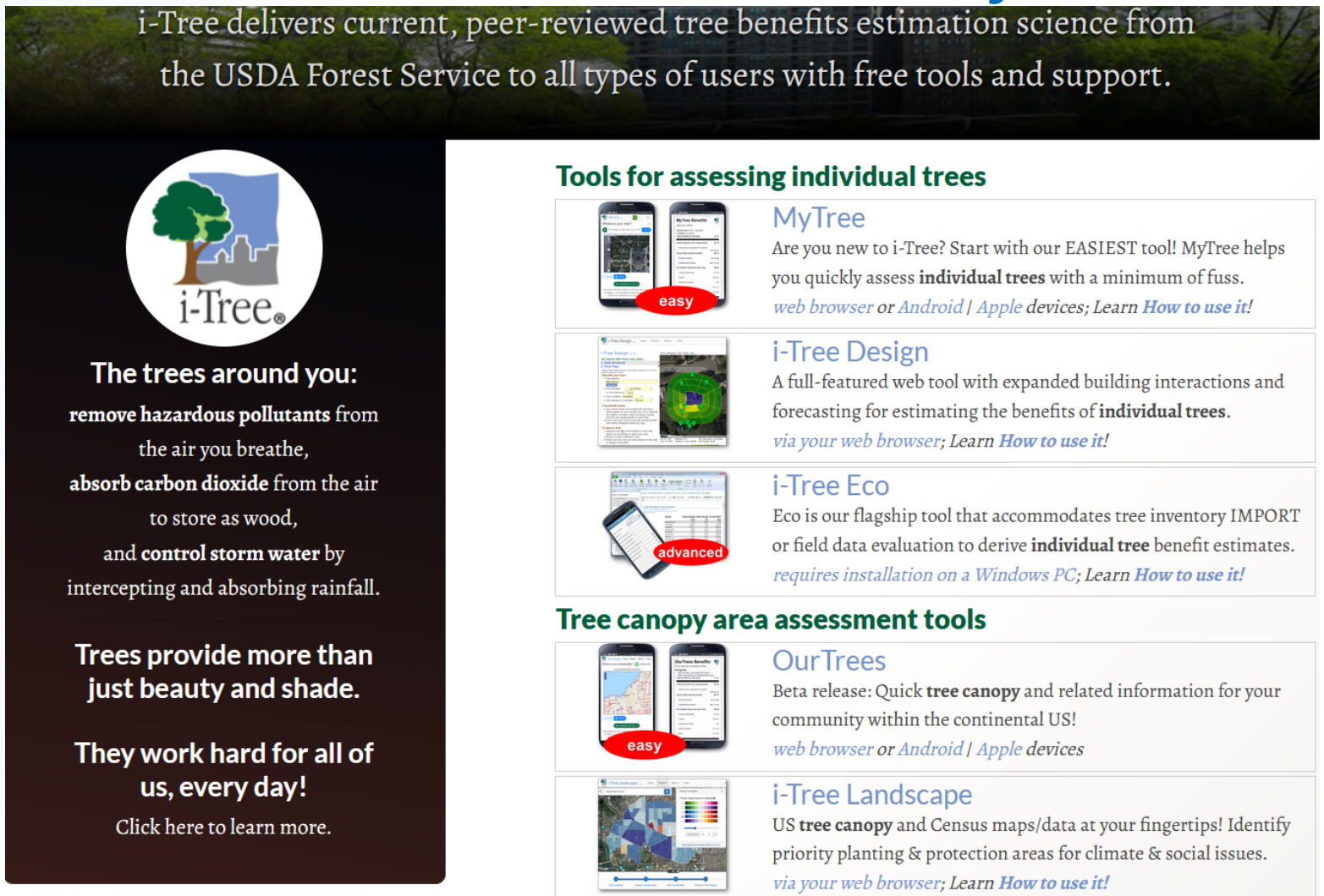


What is i-Tree?

"Putting USFS Urban Forest science into the hands of users"

- Public domain science
- Free tools
- Continuously improved
- Dedicated outreach
- Technical support

www.itreetools.org



i-Tree is a Cooperative Initiative

DAVEY

Arbor Day Foundation

sma SOCIETY OF MUNICIPAL ARBORISTS

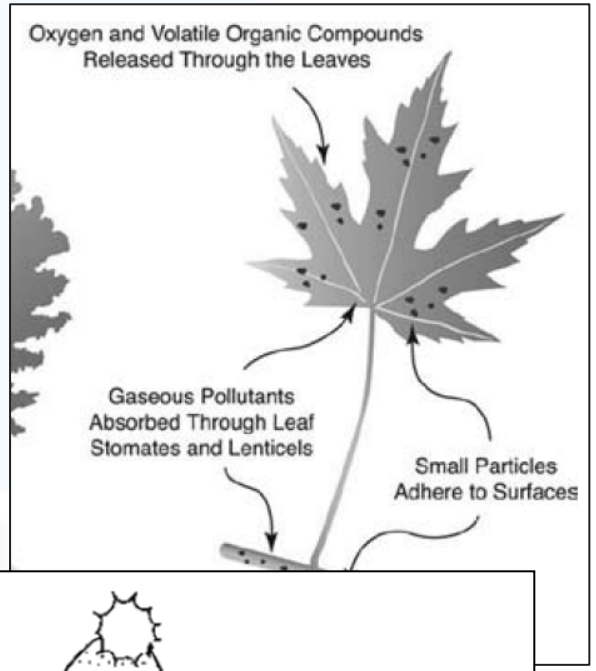
ISA

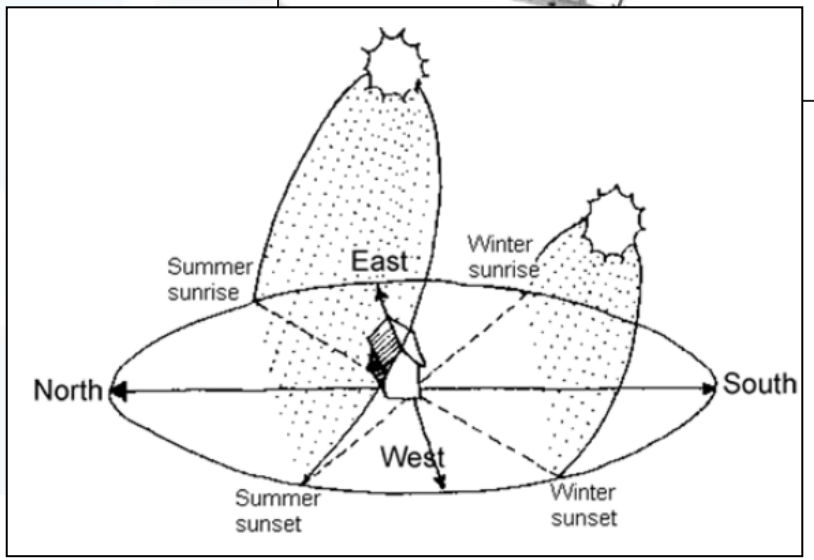
Casey Trees

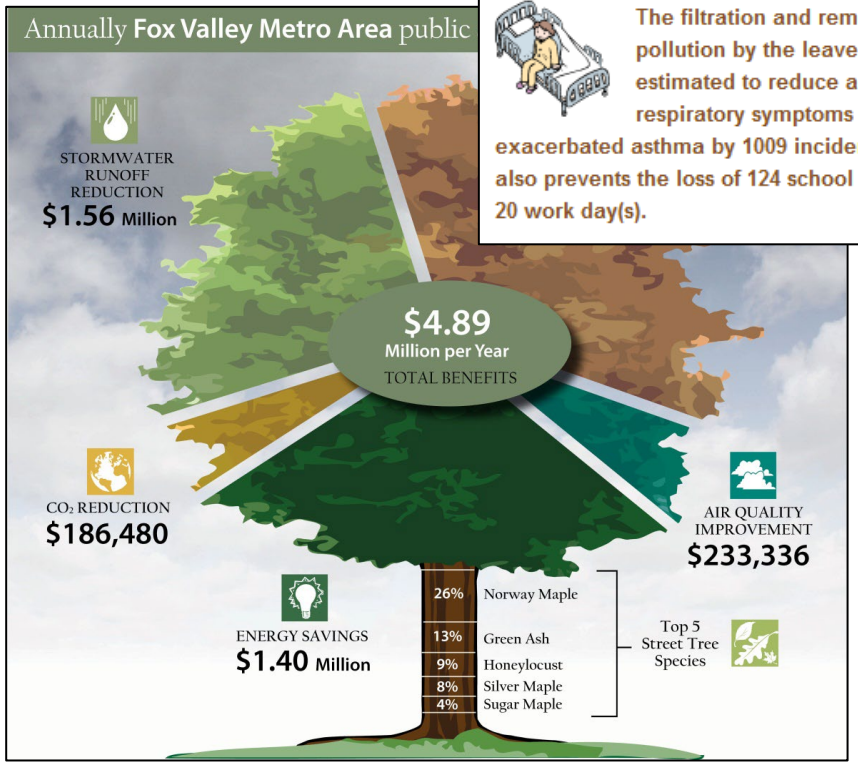
ESF

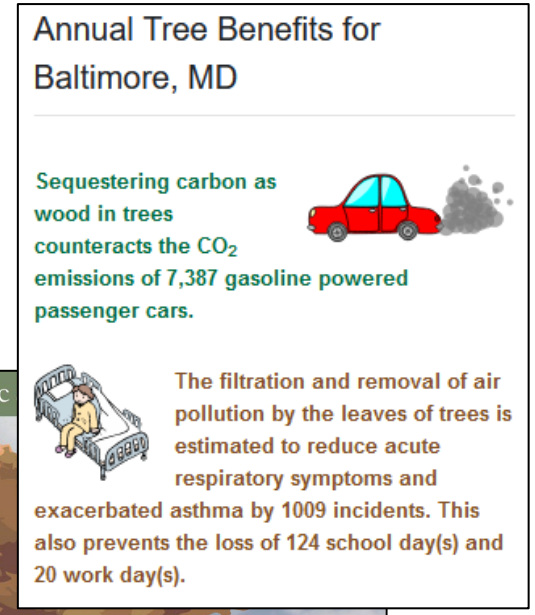
i-Tree Demonstrating tree value

Structure → Function → Value

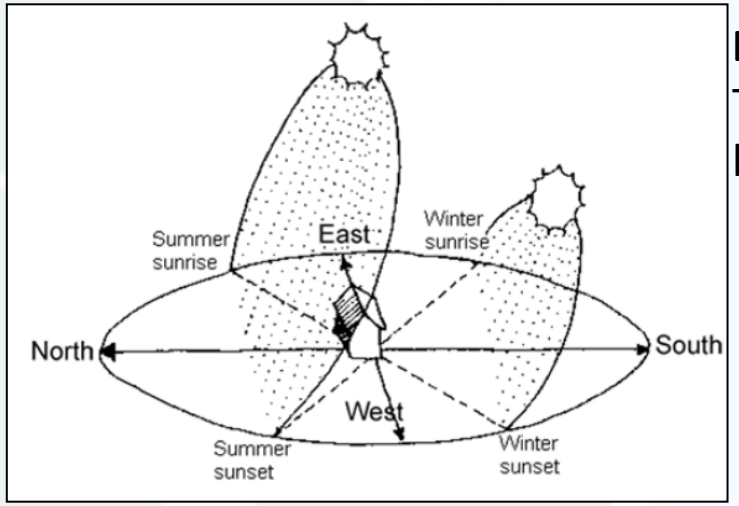






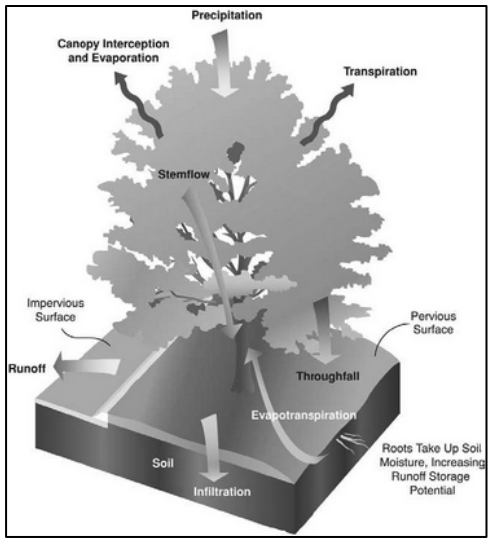


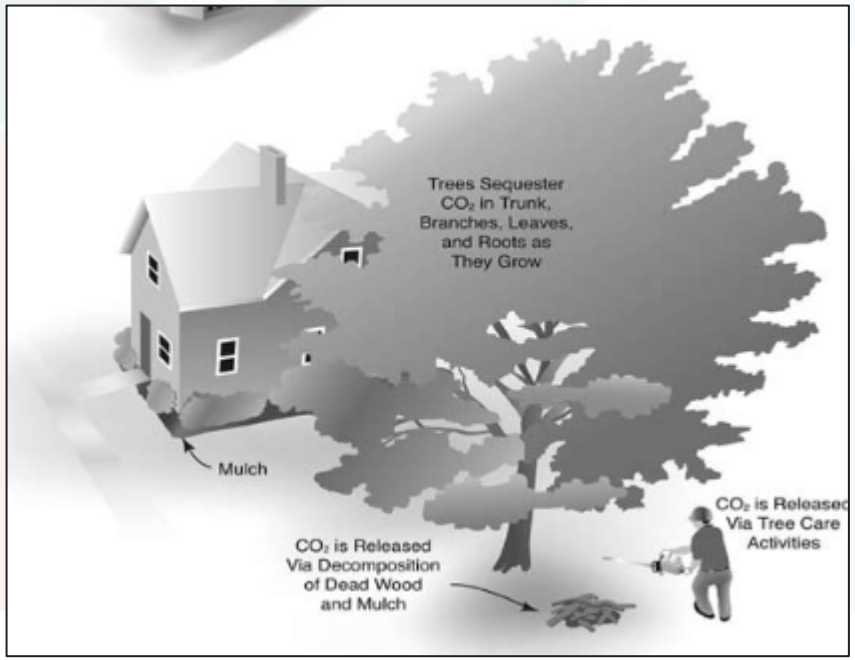
What does i-Tree Estimate and Why?



Energy
Tree impacts on heating and cooling

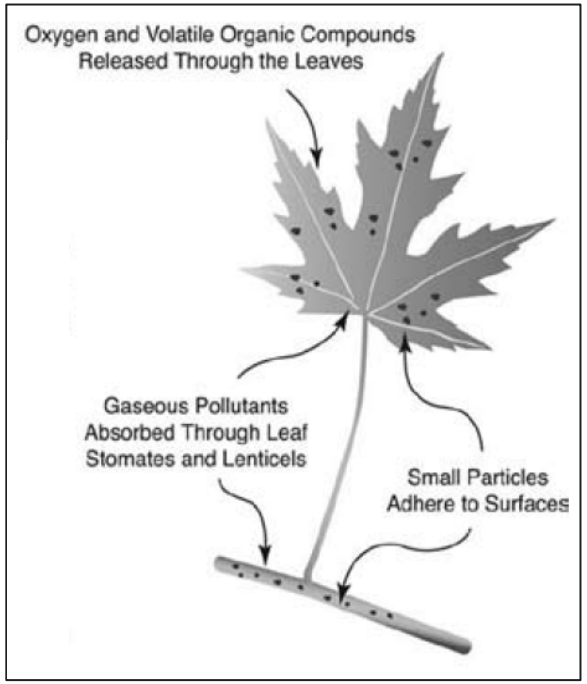
Stormwater
Avoided runoff, evaporation, transpiration





Carbon dioxide
Storage and sequestration of a greenhouse gas

Air Quality
Interaction with EPA criterion pollutants resulting in improved health



The 2023 i-Tree Suite of Tools

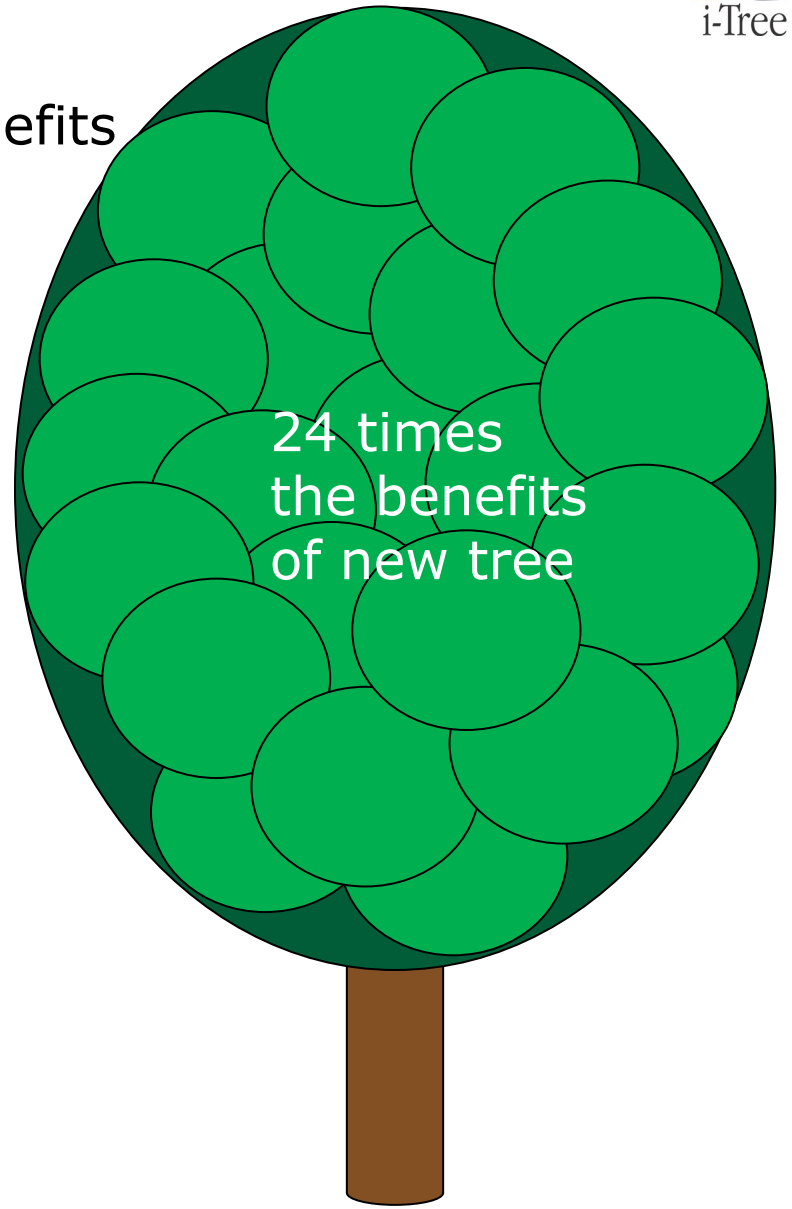
Core individual tree tools

Core canopy tools

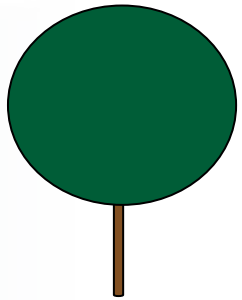
Opportunities for Communities…

- Deliver tree benefits…not just trees
- Monetary estimates to communicate to diverse audiences
- Connect trees to people
- Help throughout grant project
  - Develop your plan
  - Project impact
  - Monitor your work
  - Report out

18 inch red maple
$40.35 / yr in benefits



2 inch red maple
$1.64 / yr in benefits



Tree planting plan for Everett

<u>All hands approach…</u>

Public property → 100 trees focusing on large stature

Commercial property → 100 trees to increase community engagement

Residential property → 100 trees in consultation with residents, focus on energy benefits

$200/tree * 300 trees = $60,000

Let’s put this in i-Tree Planting

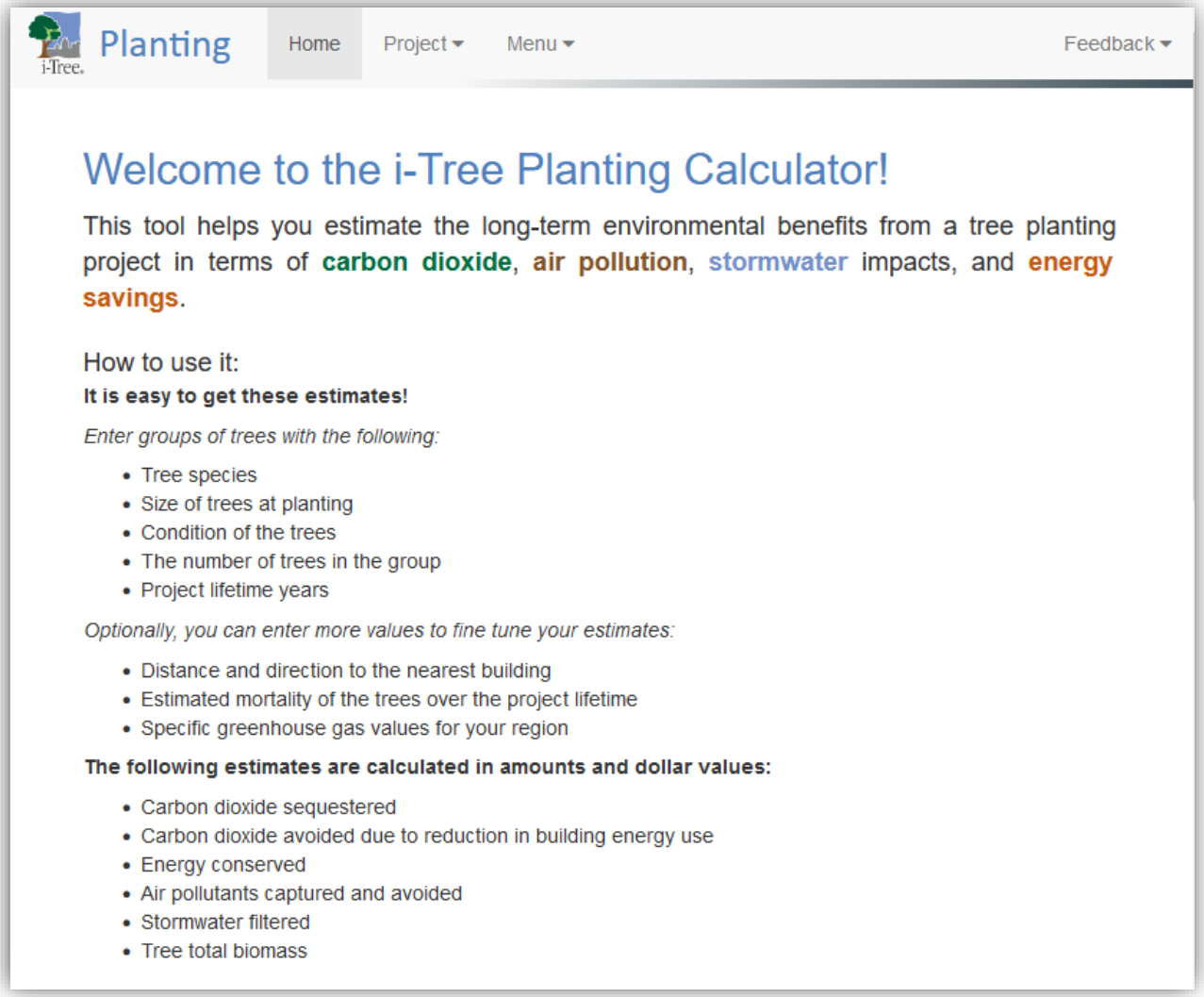
Showing impact

	Trees	CO2 avoided	CO2 sequestered	Electricity saved	Fuel saved	Avoided runoff	Air pollution avoided	Air pollution removed
Public planting	100	$ -	$ 12,897	$ -	$ -	$ 78,188	$ -	$ 7,924
Commercial planting	100	$ -	$ 20,171	$ -	$ -	$ 87,007	$ -	$ 6,290
Private planting	100	$ 2,362	$ 20,546	$ 10,420	$ 4,762	$ 88,792	$ 53	$ 7,303
Total	300	$ 2,362	$ 53,614	$ 10,420	$ 4,762	$ 253,987	$ 53	$ 21,518

$350,000 in benefits on a $60,000 investment

More options with i-Tree Planting

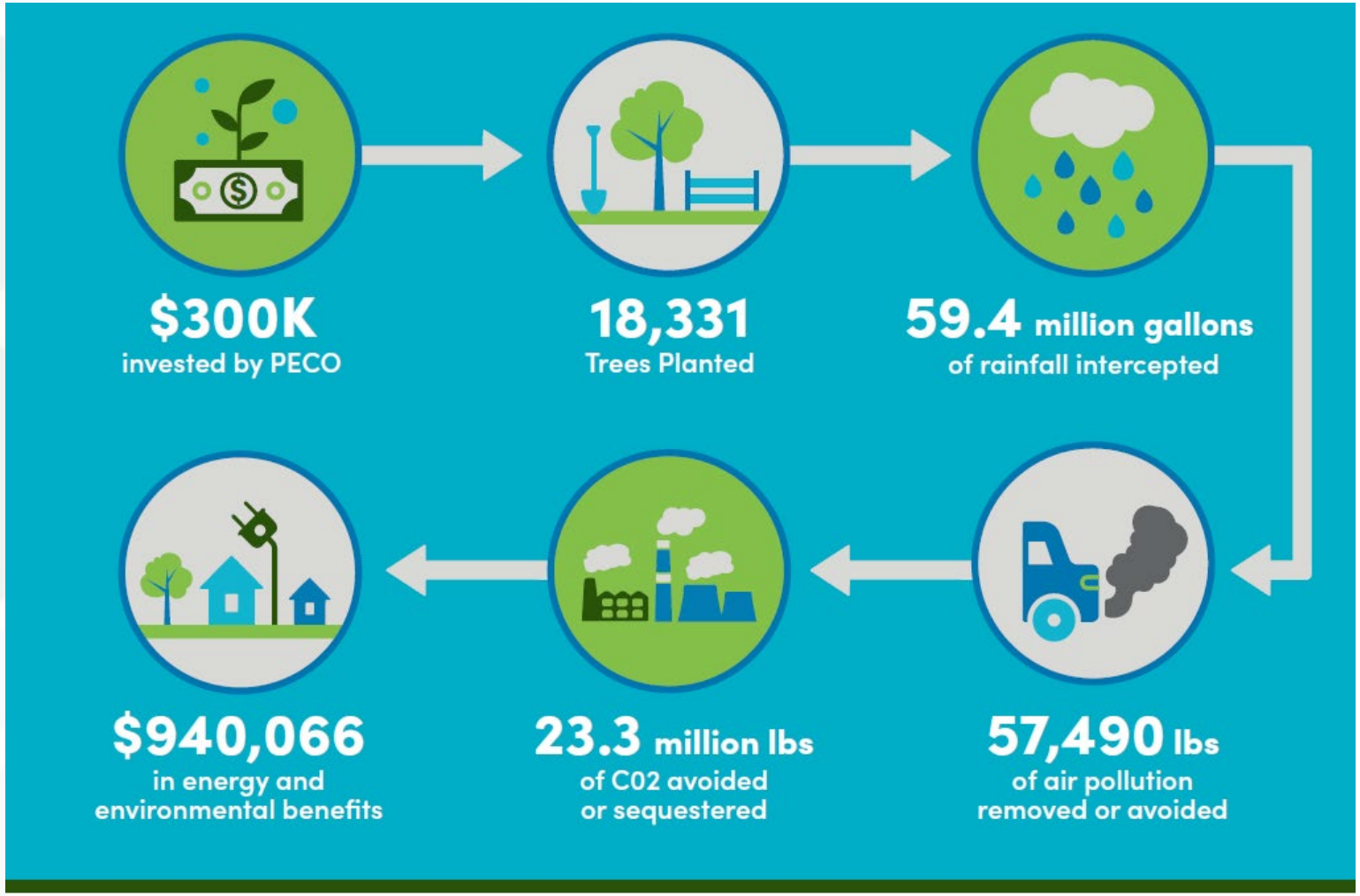
- Small trees = small benefits
- Provide support for your approach
- Include reasons for maintenance
- Evaluate species



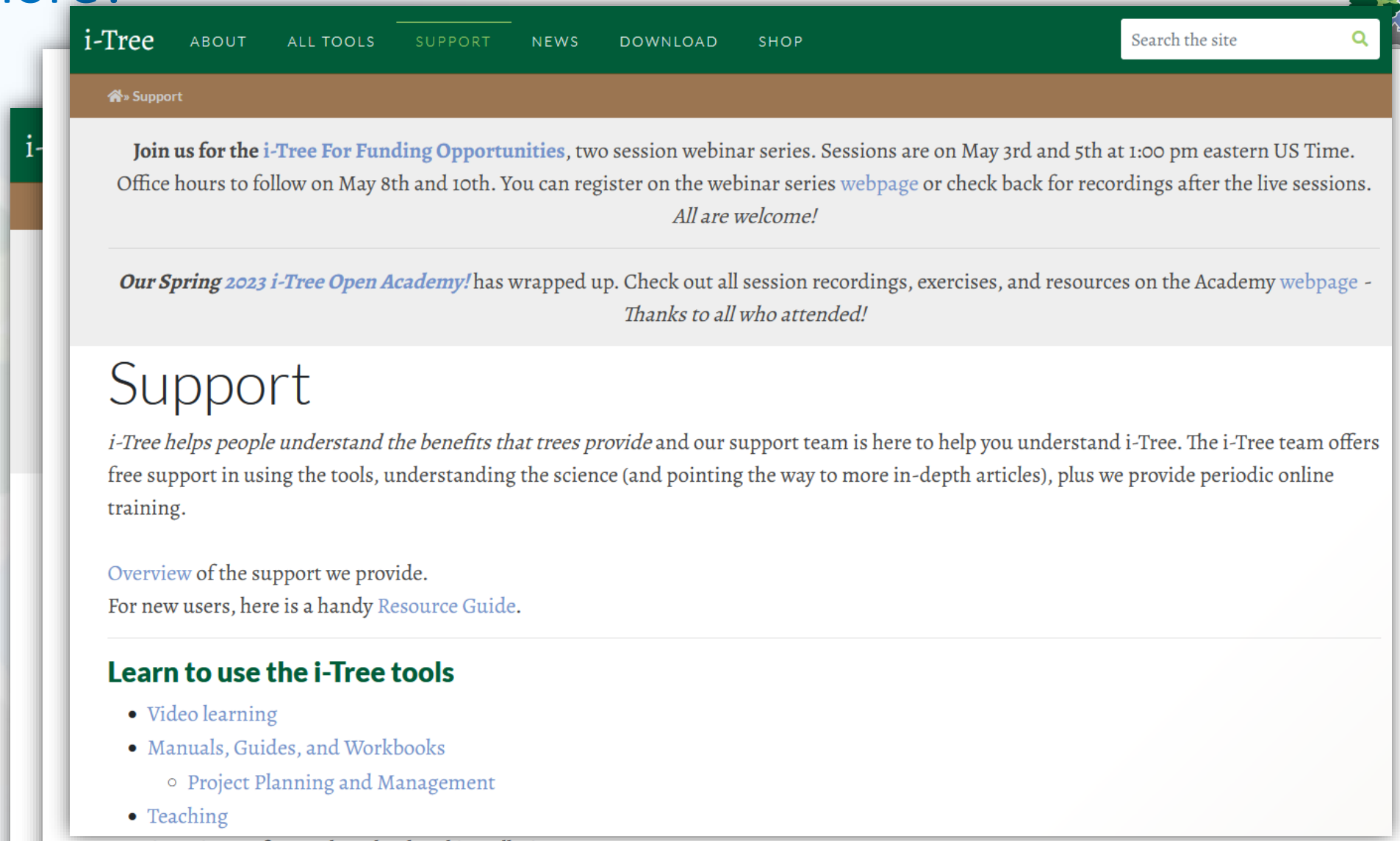
Why use i-Tree Planting?

- Fast!
- Ties directly into funding for planting
- Justification for your design
- Already accepted
  - CalFire
  - LEED certification
  - NJ Trees for Schools

Don’t forget reporting



Want to learn more?

- Start at the Funding Opportunities page
- i-Tree Academy page
- Video learning page
- Support page
- Session 2: Monitoring, Forecasting, and Strategic Management - Friday, May 5, 1:00-2:00 pm ET
- Office hours – 5/8 and 5/10 1:00-2:00 pm ET

info@itreetools.org