



World Forum on
Urban Forests
Mantova 2018

PS 5.4 Changing benefits

i-Tree: Assessing Changes in Urban Forests Benefits and Values Across the World

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What is i-Tree?

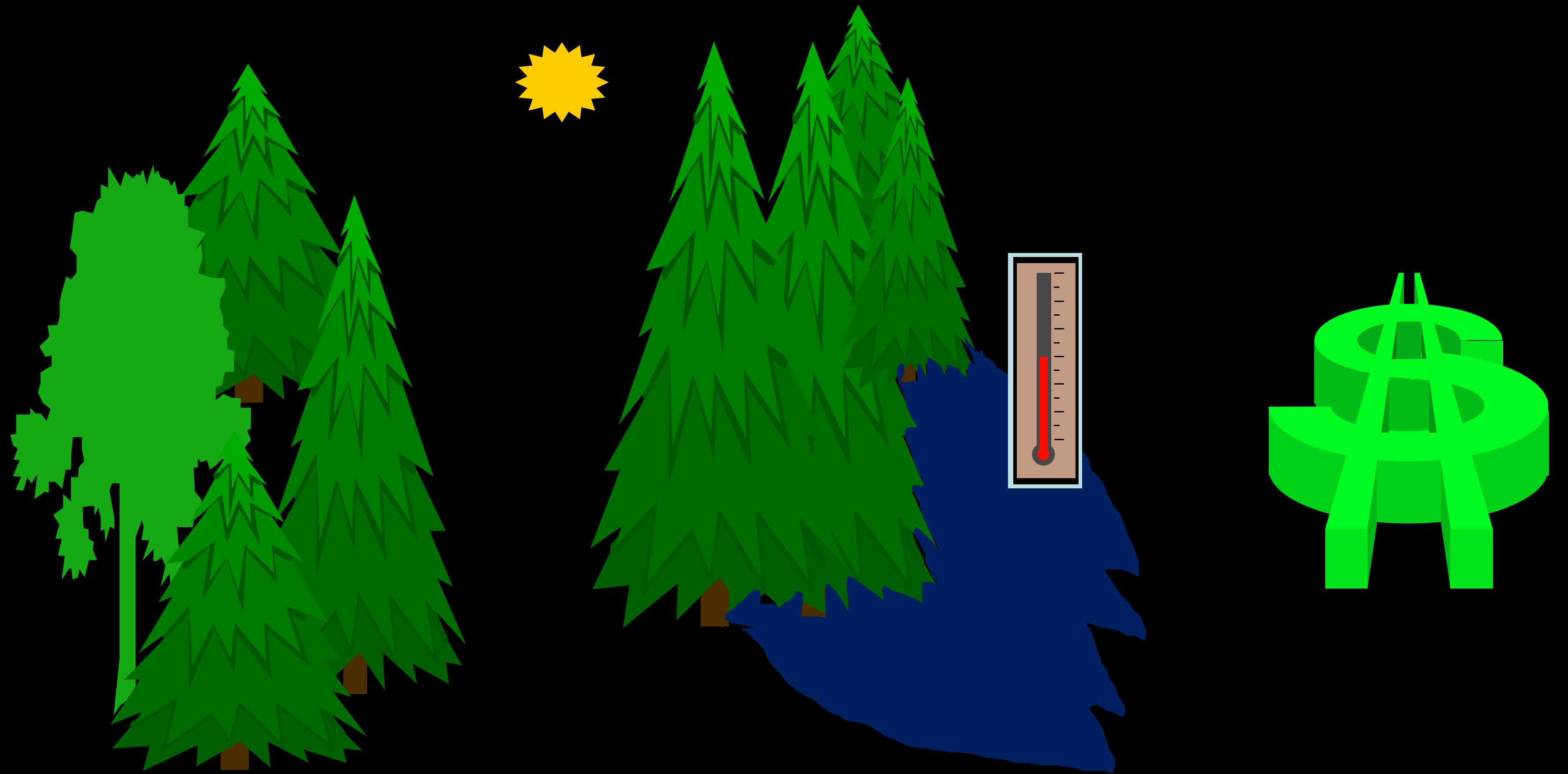
A series of **FREE** tools that quantify ecosystem services and values from trees and aid forest management



i-Tree is a
Cooperative
Initiative



Model Framework

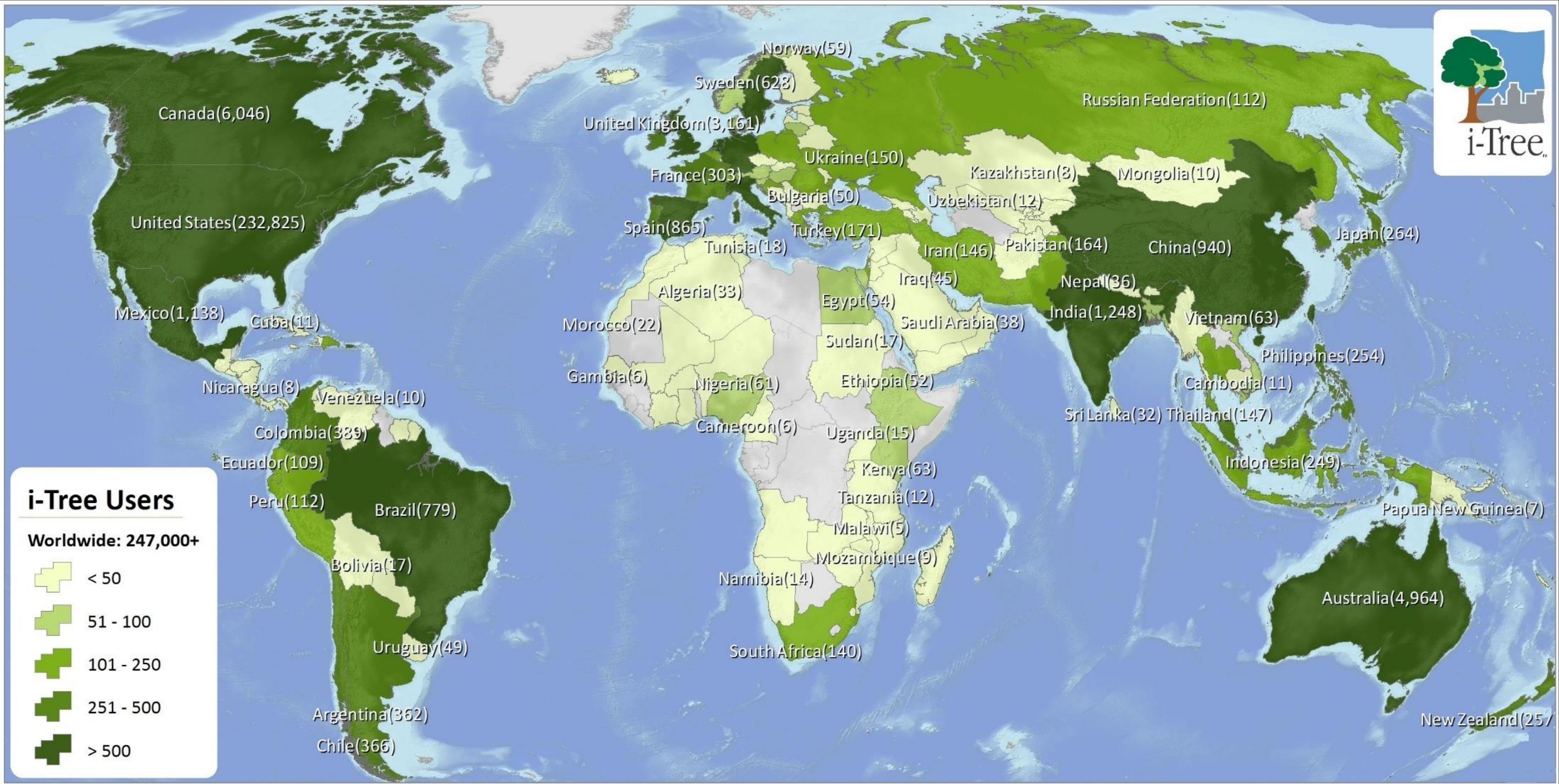


Structure ➡ **Function** ➡ **Value**

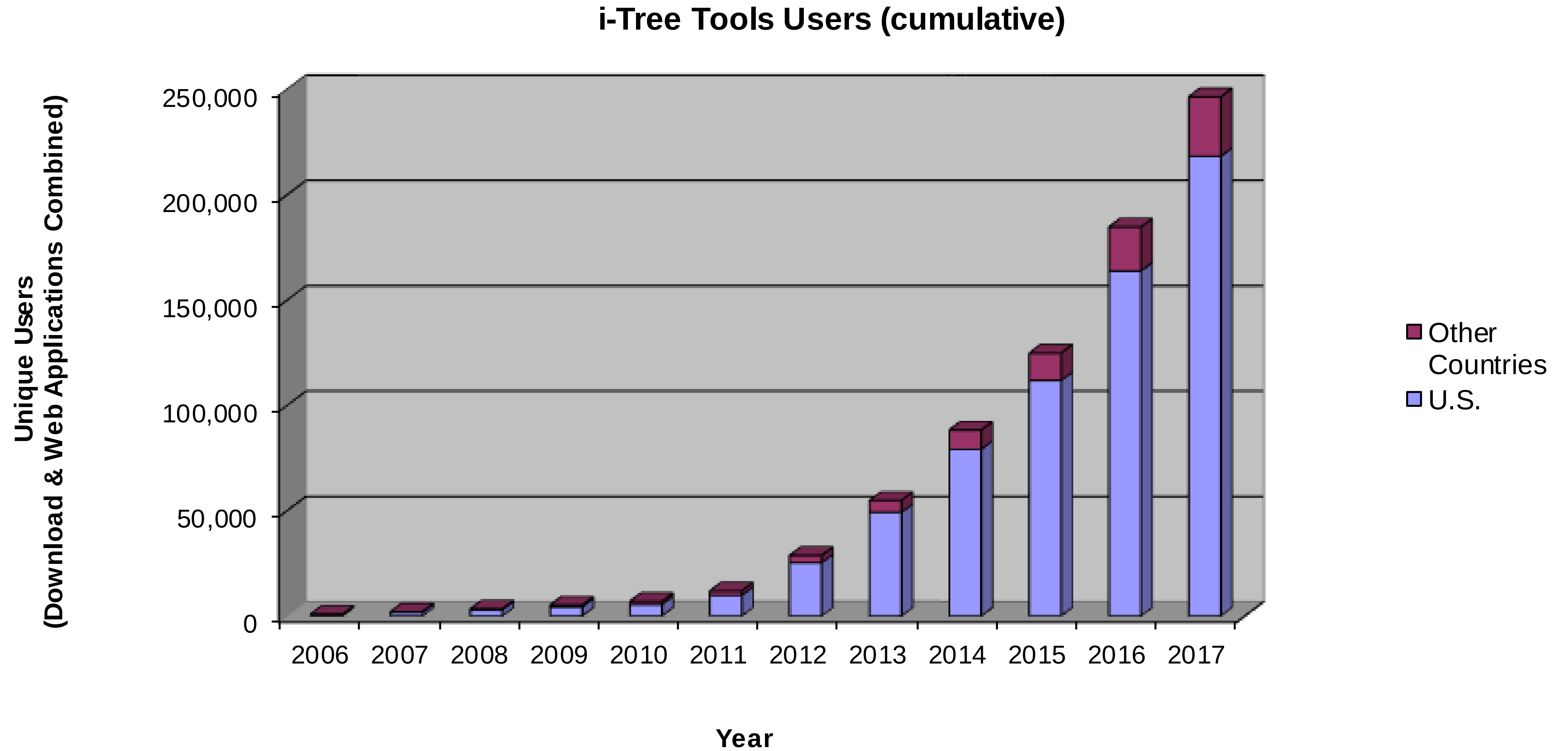
i-Tree Calculated Services

- ❧ Air quality improvement
- ❧ Water flow and water quality improvement
- ❧ Greenhouse gas reduction
- ❧ Building energy use conservation / altered emissions
- ❧ Oxygen production
- ❧ Health benefits
- ❧ UV radiation reduction
- ❧ Wildlife habitat (9 bird habitats)
- ❧ Cooler air temperatures
- ❧ Pollen
- ❧ Insect biodiversity
- ❧ Products: timber, food, fiber, ethanol

Global Usage



Growing Usage



i-Tree: Quantifies Tree and Forest Resources



www.itreetools.org



Structure

- Number of trees, species distribution, canopy cover, species diversity, etc.
- Forecast populations

Functions / Ecosystem Services

- Energy use
- Air pollution (w/ health impacts)
- Carbon storage / sequestration
- Biogenic VOC emissions
- Avoided runoff
- Reduced UV radiation

Management needs

- Pest risk
- Tree health
- Exotic/invasive spp.

\$ Value



International

🌿 Current versions

🌿 Australia

🌿 Canada

🌿 U.K.

🌿 2018 new versions

🌿 Mexico (en español)

🌿 Europe

🌿 Other countries (in development)

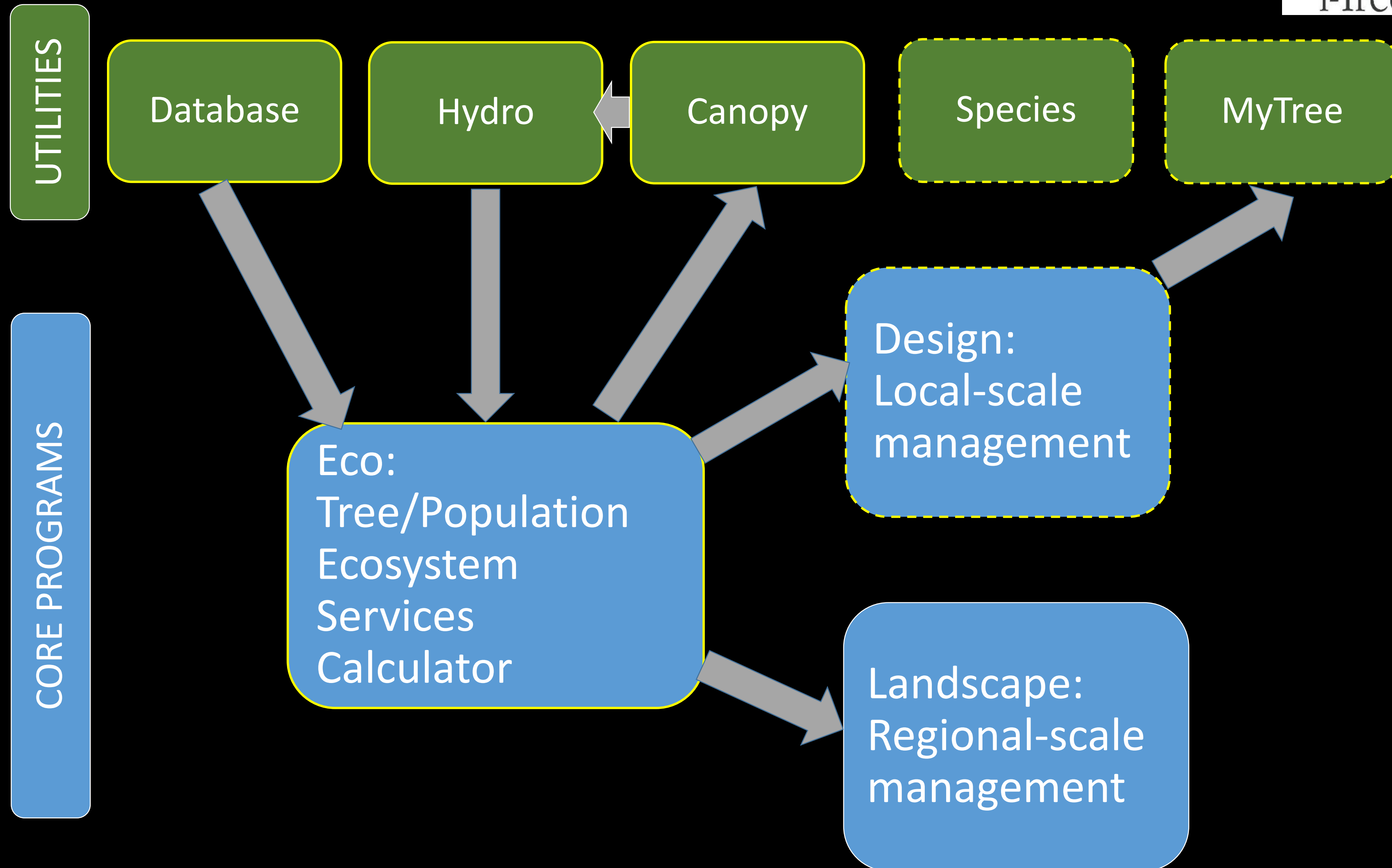
🌿 Colombia

🌿 New Zealand

🌿 South Korea



i-Tree Tools



Global i-Tree Science & Users Symposium: Discovering the Value of Your Forest

June 16 – 19, 2019

SUNY-ESF
Syracuse, NY

Please mark your calendars to attend the first global i-Tree Symposium held in the United States.

Call for Abstracts

The Abstract Selection Committee is currently seeking presentation proposals.

- [Abstract Submission Form](#)



Do you?

This event is intended bring i-Tree users and developers together to help attendees:

- Learn how to use i-Tree to create successful projects to improve urban forest management and enhance local human health and well-being

www.esf.edu/itree/



Thank You

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