What we do

We develop, support and execute programs that support the missions of our partners and benefit the greater community.

Education and Training
STP supports the development of training materials and capacity-building programs to improve understanding of the urban forest.

Emergency Operations Planning

STP has synthesized strategies of preparedness into a guide for those working with trees: The Urban Forestry Emergency Operations Planning Guide for Storm Response.

Kaulunani Program
Since 2011, STP has been administering Hawaii's urban forestry program, Kaulunani. The program looks to advance urban forestry state-wide through small community grants, supporting innovation, and leading strategic planning efforts.

What we do (Cont.)

Tree Inventory Systems and Programs
STP supports efforts to develop and maintain tree inventory systems. STP is also eager to support efforts to document and quantify the benefits of trees.

Urban Tree Canopy Assessment
In 2012 STP completed a spatial urban tree canopy assessment of urban Oahu, resulting in a precise accounting of tree canopy cover and the ability to visualize tree resources down to the parcel level. STP is offering this technology to provide the best means for managing and expanding the urban tree canopy.

Legend
Tree Canopy (15%)
Grass\Shrubs (44%)
Bare Soil (2%)
Water
Buildings (26%)
Roads (4%)
Other Paved (10%)
Agriculture

SMART TREES
PACIFIC

www.smarttreespacific.org
Contact: Teresa Trueman-Madriaga 808-672-3383

Seeking solutions to establish a diverse and healthy urban tree canopy that makes it possible for communities to thrive.

SMART TREES
PACIFIC

ANNUAL BENEFITS OF TROPICAL URBAN TREES

When added together, the impact of trees on the overall economy and society is tremendous. Investing in trees is a low-cost alternative to mitigating many problems through other means. In fact, many of these benefits are impossible to achieve otherwise.

Trees Benefit Society

- ☑ Reduce stress and improve overall well-being.
- ☑ Improve learning & concentration in schools (particularly attention deficit & self discipline).
- ☑ Lead to Reduced Crime.
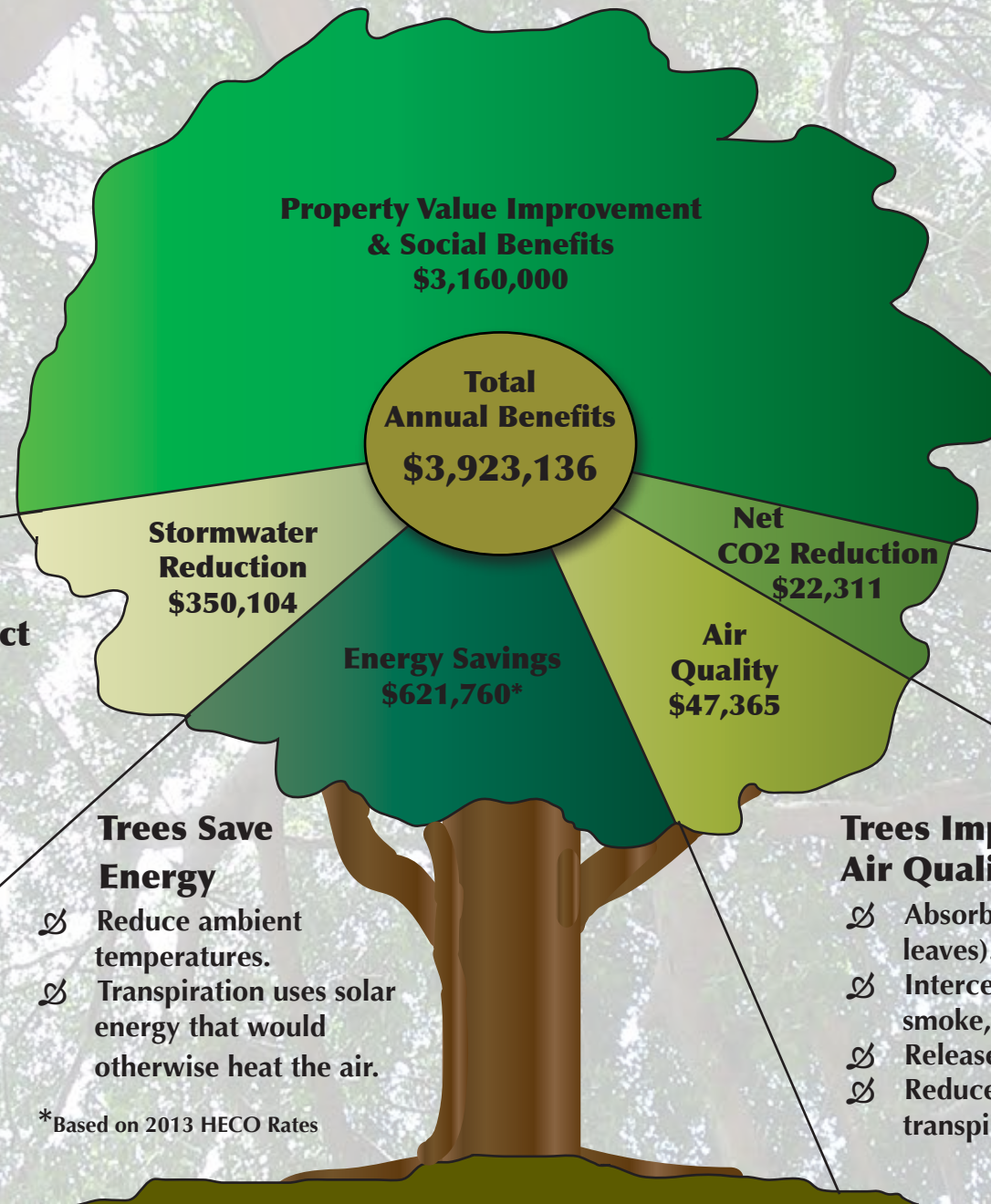- ☑ Lead to improved health & faster hospital recovery

Property Value Improvements

- ☑ People show a willingness to pay more (up to 6%) for trees on the property.
- ☑ People show a preference for retail locations with trees and will spend more time and money (9-12% more) while shopping there.

Trees Make Communities More Livable

Property Value Improvement & Social Benefits
$3,160,000

Total Annual Benefits
$3,923,136

Stormwater Reduction
$350,104

Net CO2 Reduction
$22,311

Energy Savings
$621,760*

Air Quality
$47,365

Trees Improve Watersheds and Protect Coral Reefs

- ☑ Intercept rainfall and slow down runoff.
- ☑ Increase the infiltration capacity of soil.
- ☑ Improve water quality and coral reef health by removing pollutants and reducing soil erosion, which causes harmful sedimentation.

Trees Reduce Atmospheric CO2

- ☑ Reduce the need for air conditioning.
- ☑ Sequester and store CO2 in woody biomass and leaves thereby removing it from the atmosphere.

Trees Save Energy

- ☑ Reduce ambient temperatures.
- ☑ Transpiration uses solar energy that would otherwise heat the air.

*Based on 2013 HECO Rates

Trees Improve Air Quality

- ☑ Absorb gaseous pollutants (via leaves).
- ☑ Intercept particulates (dust, smoke, dirt).
- ☑ Release O_2 (photosynthesis)
- ☑ Reduce ozone levels (through transpiration).