Los Angeles Tree Summit

Miranda Hutten, U.S. Forest Service

May 22, 2020

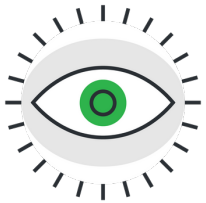
TODAY'S PRESENTATION

Los Angeles
Center for Urban Natural
Resources Sustainability
Rooted in Research

- Our unique model
- Research programs
- Tools and resources available to you
- How to engage with us

WHO WE ARE

Need



Vision

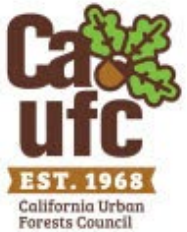
Mission

- Annual Partner Meeting
- Fellows Seminar Series
- Hot Topic Seminars on Drought, Fire, and Forest Health

- Climate Ready Trees Study
- STEW MAP
- Tree Planting Preference Study
- Environmental Justice and Tree Plantings

- Arborfest
- Tree Plantings
- Research Database

Executive Oversight Team



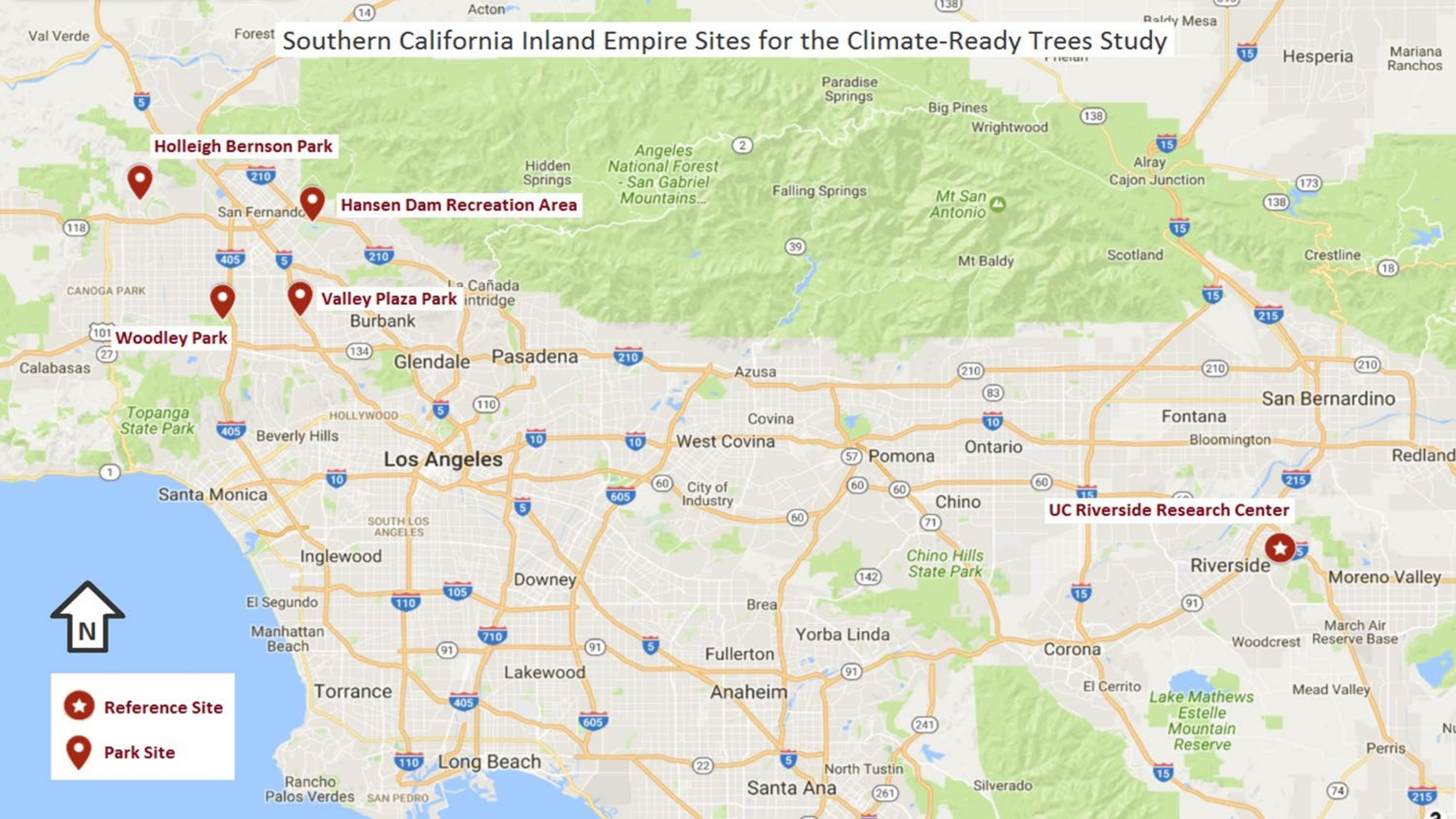

BISCAILUZ BUILDING
INSTITUTO CULTURAL MEXICANO

Ongoing Research Programs

Climate Ready Trees

- **A 20-year study** to test tree species based on:
  a) Qualities as urban trees
  b) Potential resilience to anticipated climate
     change impacts

Southern California Coast Sites for the Climate-Ready Trees Study


Southern California Inland Empire Sites for the Climate-Ready Trees Study
Holleigh Bernson Park
Hansen Dam Recreation Area
Valley Plaza Park
Woodley Park
UC Riverside Research Center
N
Reference Site
Park Site
Val Verde
Forest
Acton
Baldy Mesa
Hesperia
Mariana Ranchos
Paradise Springs
Big Pines
Wrightwood
Hidden Springs
Angeles National Forest - San Gabriel Mountains...
Falling Springs
Mt San Antonio
Alray
Cajon Junction
San Fernando
Mt Baldy
Scotland
Crestline
CANOGA PARK
La Cañada Flintridge
Burbank
Calabasas
Glendale
Pasadena
Azusa
Topanga State Park
HOLLYWOOD
Beverly Hills
Covina
West Covina
Los Angeles
Pomona
Ontario
San Bernardino
Fontana
Bloomington
Redland
Santa Monica
City of Industry
Chino
SOUTH LOS ANGELES
Inglewood
Chino Hills State Park
Riverside
Moreno Valley
Downey
El Segundo
Brea
Manhattan Beach
Yorba Linda
Fullerton
Corona
Woodcrest
March Air Reserve Base
Lakewood
Torrance
Anaheim
El Cerrito
Lake Mathews Estelle Mountain Reserve
Mead Valley
Perris
Long Beach
North Tustin
Santa Ana
Silverado
Rancho Palos Verdes
SAN PEDRO

Tree Stewardship Best Practices in Environmental Justice Communities

- A research pilot program that applied the a community-based social marketing to the challenges of urban tree stewardship

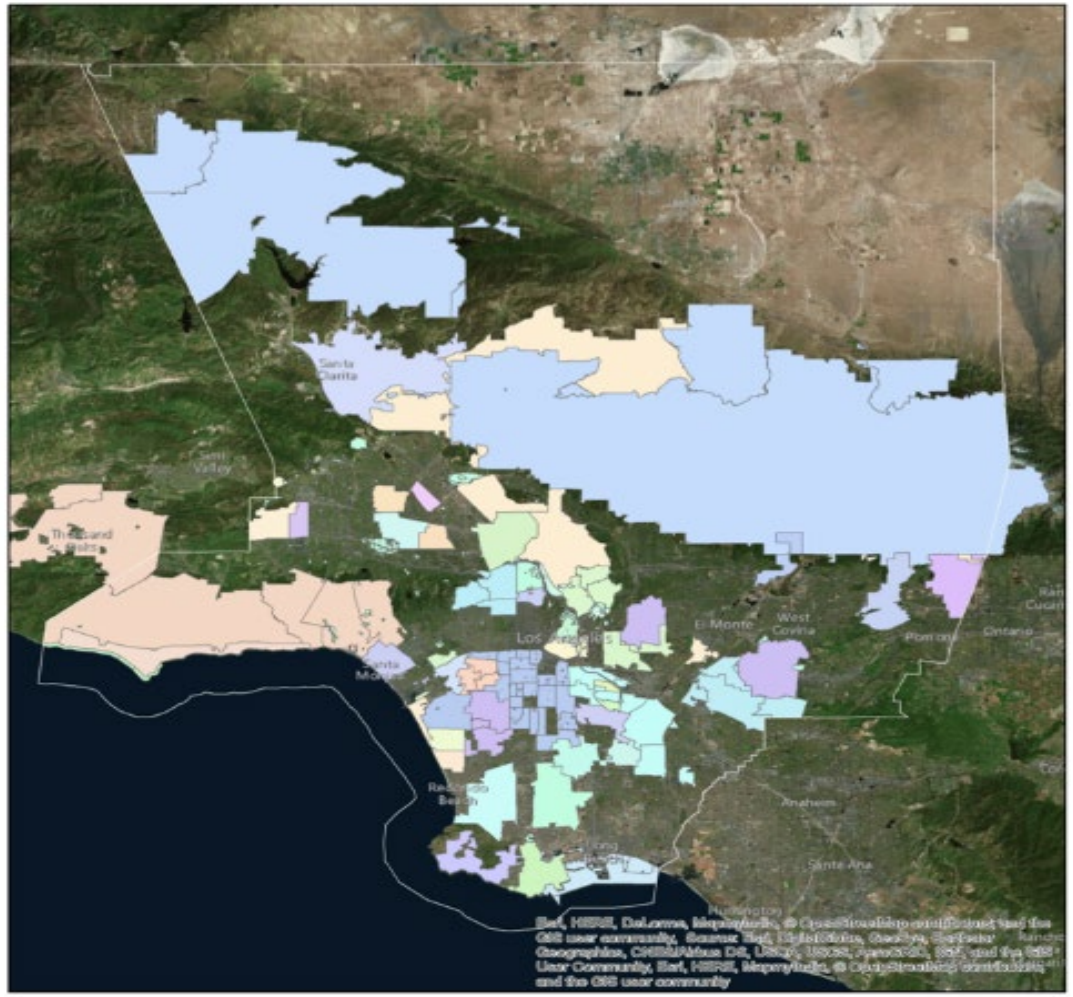
Me has revisado esta semana?

TreePeople

Have you checked me this week?

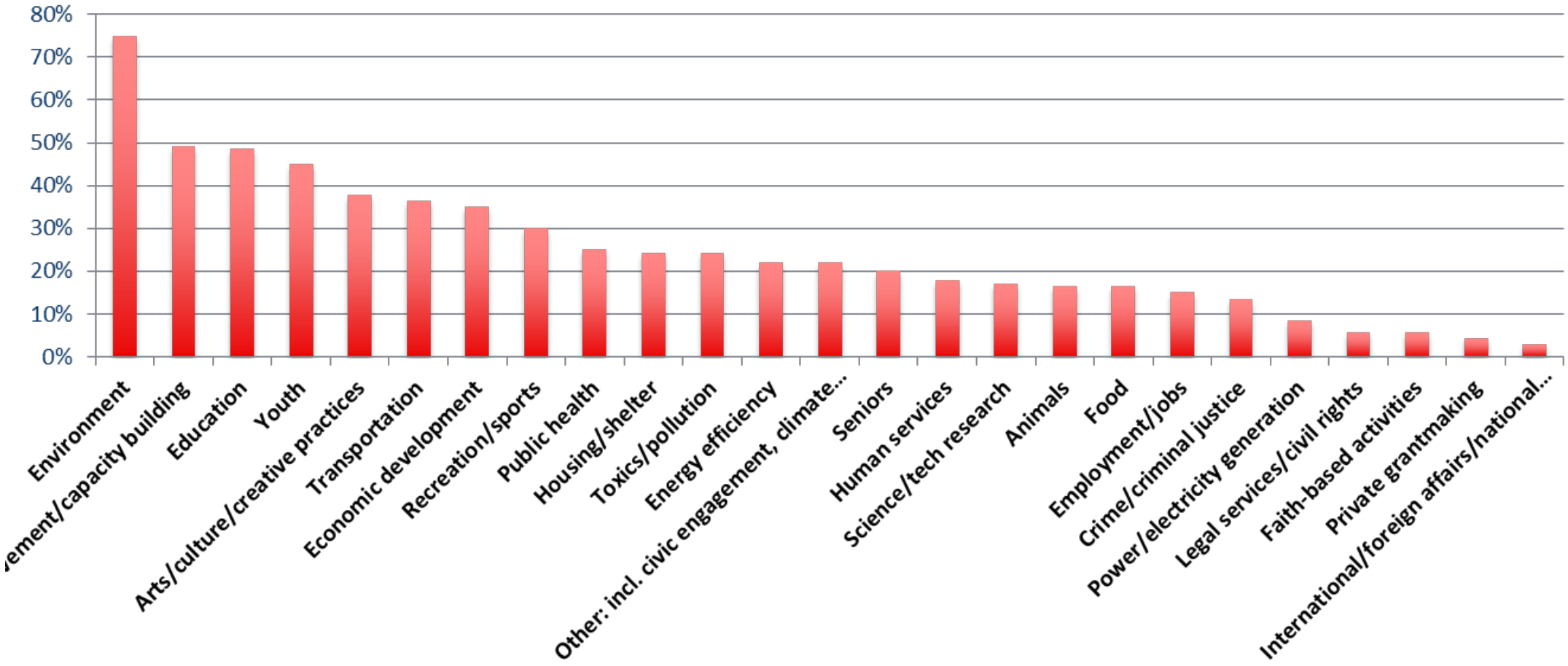
TreePeople

LA STEW-MAP

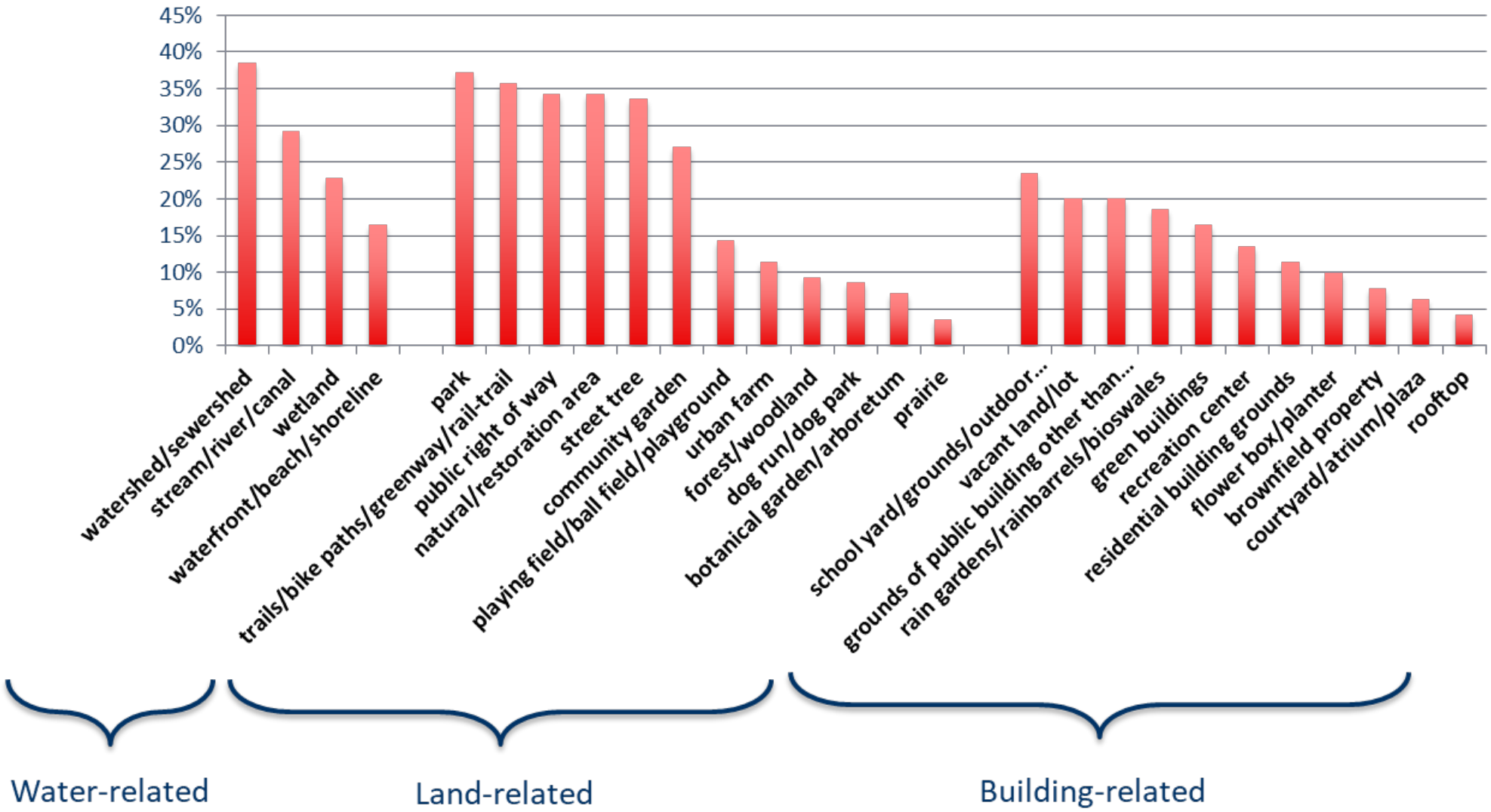


- Network analysis that seeks to inventory, characterize, and geographically map the activities and relationships of environmental stewardship organizations in urban areas

What do you work on? Select all that apply.
N=136

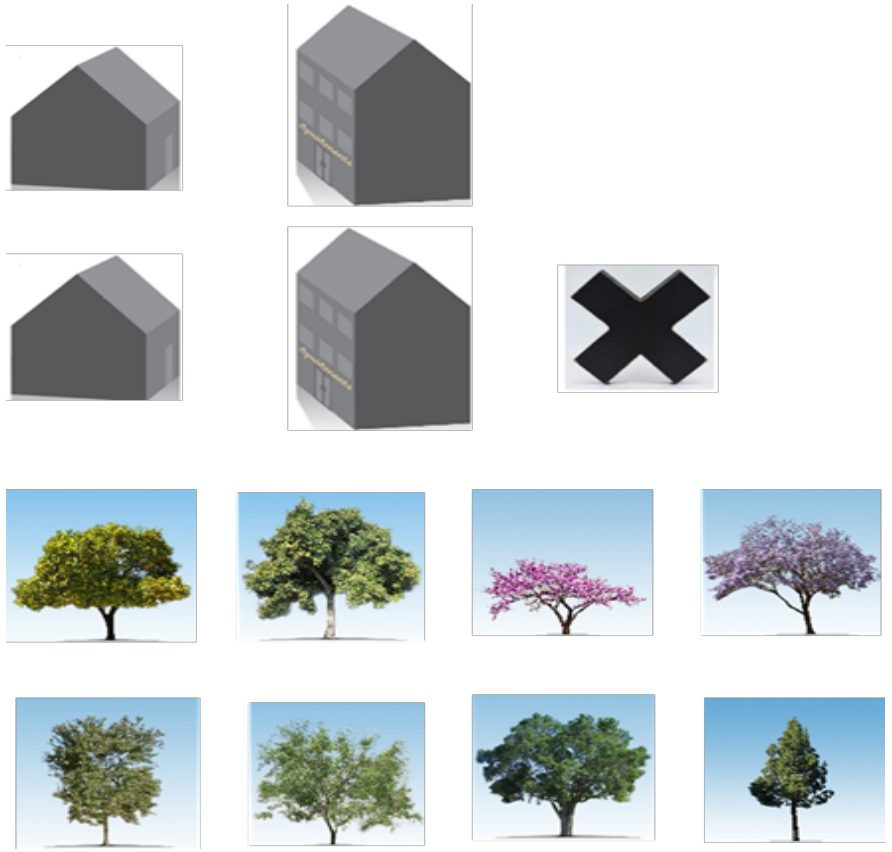


Where do you conduct stewardship activities? Select all that apply.
N=130



The Plant Your Street Game: Tree Preference Study

- The study aims to improve understanding of urban tree planting preferences and public engagement by plant your street research garme



HOME
HOME
CITY PARK

Fellowship Program

Announcing the 2020-2021 Science Fellowship cohort

The LA Urban Center Executive Oversight Team is pleased to announce the selected 2020-2021 Science Fellowship cohort:

Stephanie Piper

University of California, Riverside

—

Research Topic Area:

Urban Tree Canopy & Air Quality

Christian Benitez

California State University, Los Angeles

—

Research Topic Area:

"Quantifying Bird Habitat Using LiDAR," Urban Tree Canopy Biodiversity, Urban Tree Canopy and Green Infrastructure, Urban Tree Canopy and Environmental Justice

Corinne Bassett

University of British Columbia

—

Research Topic Area:

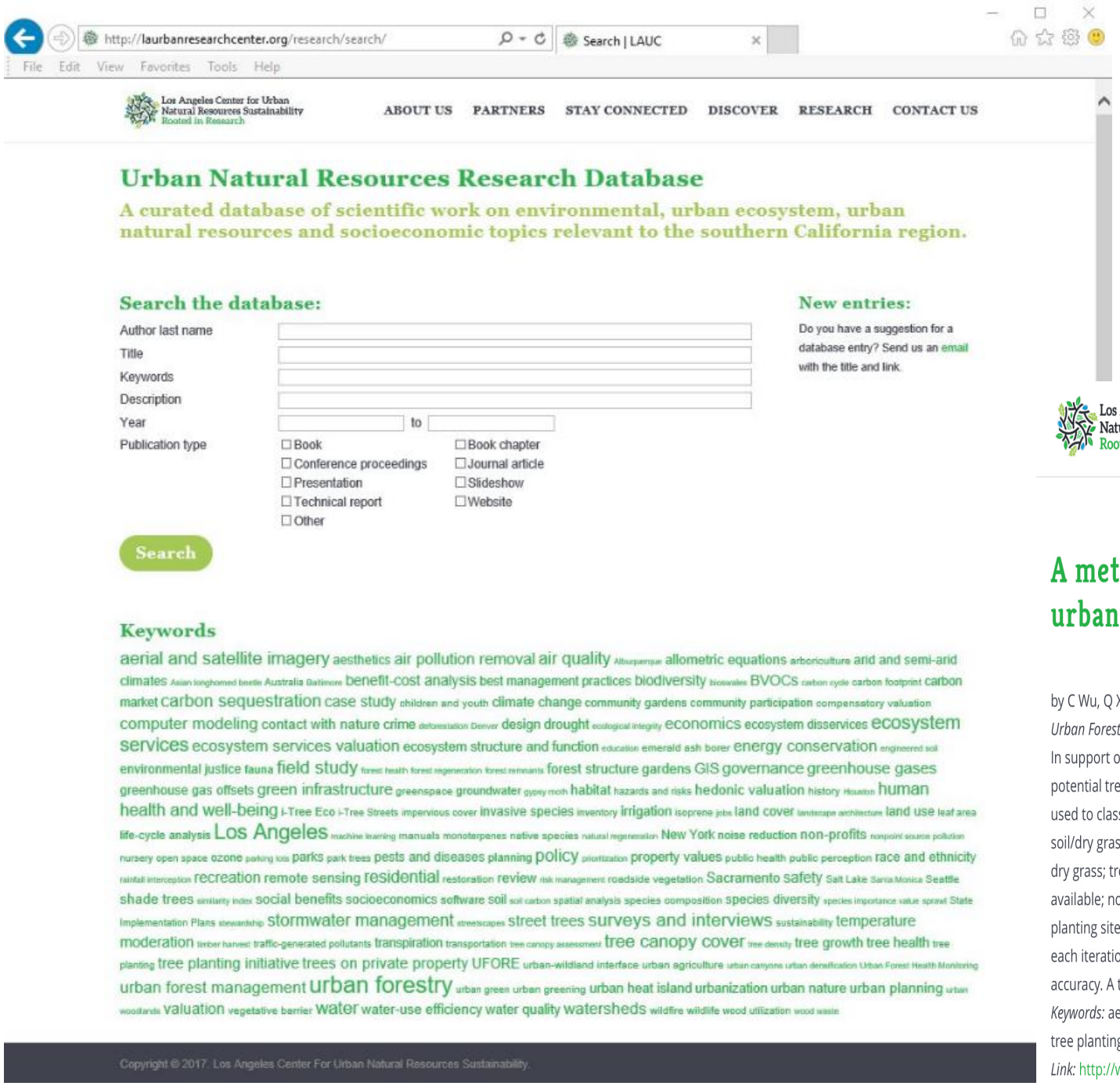
Urban Tree Canopy Change Analysis & Impacts of Development


SMOKE


SMOKEY

Online Resources

Research Database



A method for locating potential tree-planting sites in urban areas: A case study of Los Angeles, USA

by C Wu, Q Xiao, EG McPherson

Urban Forestry & Urban Greening 7(2):65-76 **2008**

In support of Los Angeles's Million Tree Initiative, a method was devised to determine if there were sufficient potential tree planting sites for the project. Remote sensing technology and QuickBird satellite imagery were used to classify land cover into four tree-relevant categories: impervious surface, trees, irrigated grass, bare soil/dry grass. An algorithm was developed to find suitable planting spaces (land cover of grass, bare soil, or dry grass; tree trunks a specified distance from impervious surface; minimum square feet of pervious surface available; no crown overlap with existing trees). The algorithm featured two modules, the first to identify planting sites and the second to "plant trees" within those areas. It was designed to be run repeatedly, with each iteration adding trees to appropriate areas that remain open. Ground-truthing was performed to assess accuracy. A total of 2.2 million suitable planting sites were found.

Keywords: aerial and satellite imagery, computer modeling, GIS, land cover, remote sensing, tree canopy cover, tree planting initiative, and urban forestry

Link: http://www.treesearch.fs.fed.us/pubs/30226

Engaging Youth

Be a Green School.

Discover how and why to become a green school.

VISIT

Discover the Forest.

DISCOVER the FOREST

Learn more about the forest and all that they have to offer! Enjoy these science tips and fun facts to help you appreciate and conserve our natural lands.

VISIT

Tools & Presentations

Los Angeles Center for Urban Natural Resources Sustainability
Rooted in Research

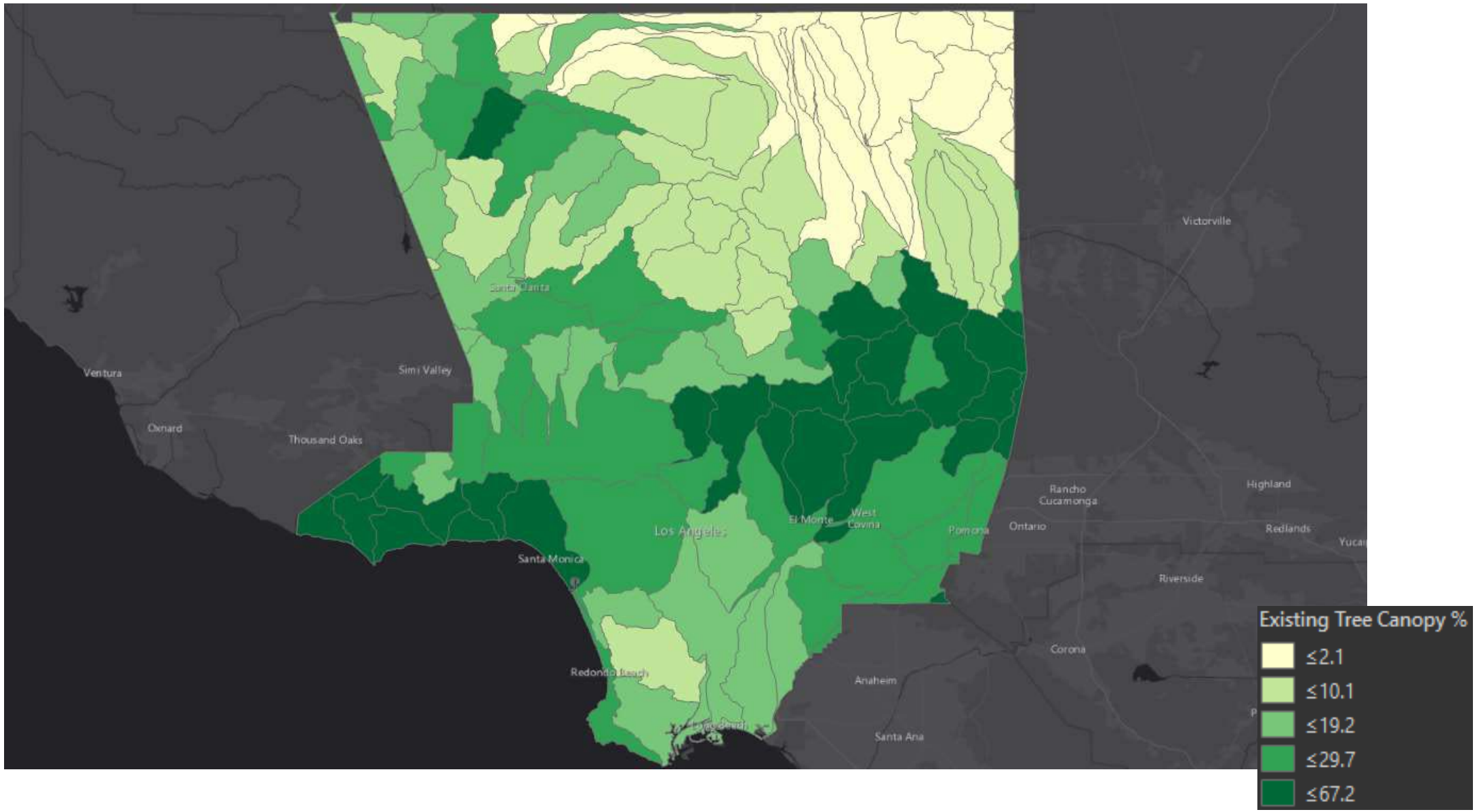
ABOUT US PARTNERS STAY CONNECTED DISCOVER RESEARCH 3 CONTACT US

Stewardship Mapping and Assessment Project

The Stewardship Mapping and Assessment Project (STEW-MAP) is an online, searchable GIS database that helps people identify and locate environmental stewardship organizations, partnerships, and opportunities in their city.

VISIT

Coming Soon
LiDAR Online
Viewer


Victorville
Ventura
Simi Valley
Oxnard
Thousand Oaks
Los Angeles
El Monte
West Covina
Pomona
Ontario
Rancho Cucamonga
Highland
Redlands
Riverside
Santa Monica
Redondo Beach
Anaheim
Corona
Santa Ana
Existing Tree Canopy %
≤2.1
≤10.1
≤19.2
≤29.7
≤67.2

How to Engage With the LA Urban Center

Partners meetings / workshops/ science seminars

How to Engage With the LA Urban Center

Connect with ongoing studies.

Share your work / resources / products

How to Engage With the LA Urban Center

Join an outreach event – connect with urban publics & the next generation of conservation leaders

Stay Connected

Email Us:
info@laurbanresearchcenter.org

Call Us:
(213)628-3718

Visit Our Website:
www.laurbanresearchcenter.org