Session 2.4

Elysium: Creating the policy and legal framework to support the role of urban forests as public health infrastructure

Chair: Matt Spitsen

World Forum on Urban Forests

2nd World Forum on Urban Forests

Washington DC, 2023

City of Pittsburgh Tree Equity Initiatives

Presented by

Michael P Kelley, MNR

Pittsburgh, Pennsylvania

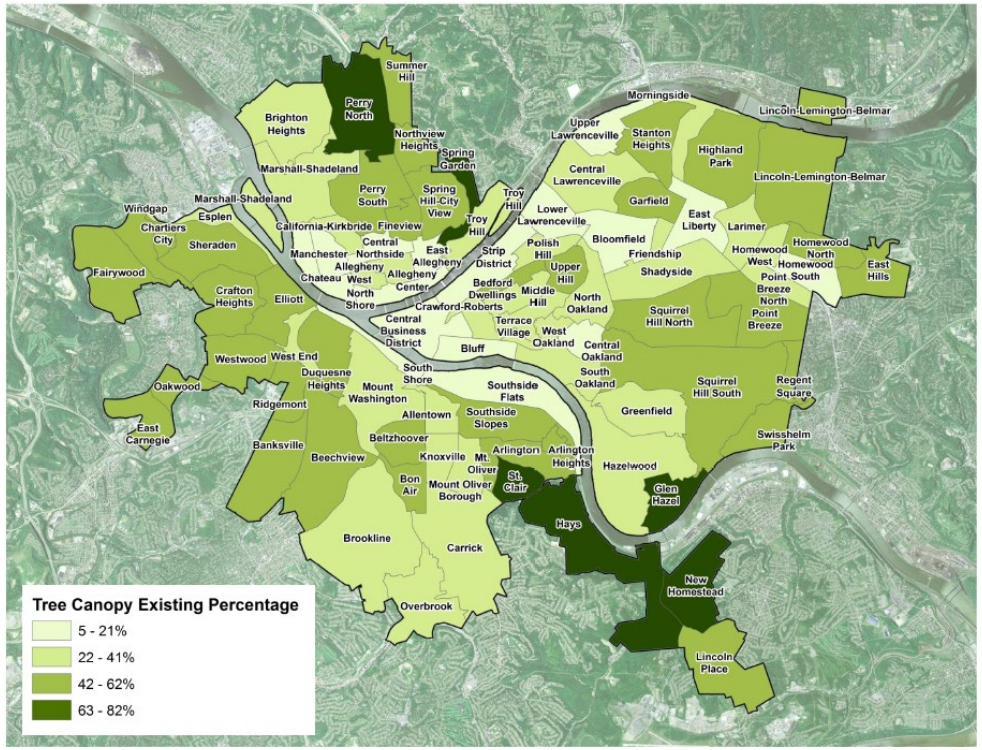
America's Most Livable City

Planting for the future

Coverage for All

Contributing Factors to Canopy Inequity

- Redlining
- Disinvestment in Poor and Minority Communities
- Economic Collapses
- Lack of Intentional Reinvestment



Program History

- 2012: ReLeaf Program Launches in Manchester
- 2019: City Convenes Tree Equity Subcommittee
- 2020: Tree Equity Subcommittee Develops Equity Matrix; Releases Street Tree Equity Plan
- 2021: First Round of Tree Plantings in Equity Neighborhoods
- 2022: DCNR Grant Focusing on Replanting in Equity Neighborhoods Awarded
- 2022: Trust Trees campaign launches; ReLeaf Beltzhoover
- 2023: City and Partners Awarded $9M in IRA grant funds for Justice40 Neighborhoods across Allegheny County

Partner Organization

City of Pittsburgh Forestry Division

Show Up and Own Up

- Refocus energy on clearing backlog of work in Equity Communities
- Work with partner organizations and community groups to identify areas of greatest need
- Community Forestry Specialist
- 3TB Community Forest Initiative
- Supporting planting initiatives of partner organizations

Partner Organization

Tree Pittsburgh

ReLeaf Plans

Partner Organization

Western Pennsylvania Conservancy

TreeVitalize

- WPC has planted 40,000 trees since 2008
- TreeVitalize Pittsburgh partnership, which includes many organizations and municipal stakeholders across the City and County
- Proper site preparation, tree selection, community engagement, and maintenance.

Partner Organization

Landforce

Investing in People Restoring the Land

- Employment social enterprise nonprofit
- Trains and hires people typically excluded from family sustaining green jobs Works on environmental stewardship projects including tree planting, care, GSI, and habitat restoration
- Supports trainees/hirees to transition to long-term employment
- Launching Urban Wood Reuse program to provide services for full lifecycle of trees

Partner Organization

Resilient Cities Catalyst

Help cities and communities create catalytic change

- Making the case for sustained data-informed community-centered investments in GI & urban tree canopy
- Utilizing data to tell a story of the opportunity of trees
- Visualizing innovative ways of thinking about what a tree-equitable neighborhood and city look like
- Supporting planting initiatives in neighborhoods facing high levels of climate risk

Partner Organization

UrbanKind Institute

Trust Trees

Thank you

Michael Kelley, MNR| City of Pittsburgh

Michael.Kelley@ pittsburghpa.gov

Food and Agriculture Organization of the United Nations

Arbor Day Foundation

POLITECNICO MILANO 1863

CICEF

ISA International Society of Arboriculture

Smithsonian

Forest Service U.S. Department of Agriculture

2nd World Forum on Urban Forests

2023

World Forum on Urban Forests

2nd World Forum on Urban Forests

Washington DC, 2023

Centering Community in Community Forests

Partnering with environmental justice communities to ensure equitable distribution of urban canopy in the United States

Presented by

Colleen Berg, Molly Codding, Kalaia Tripeaux
Preston Brooks, Ericka Popovich

Environmental Injustice Acknowledgement

Canopy inequity in the United States is the result of decades of systemic racism in housing and lending, and land use disenfranchisement for people of Color and low-income communities.

The opportunity: IRA shifts EJ

In 2022, the United States Congress passed landmark legislation which will provide $1.5 B in funding for urban forest management in environmentally disadvantaged communities.

States will have historic levels of funding dedicated to meeting the needs of EJ communities.

The challenge: States must engage community for long-term change

1. Understand community readiness and motivation to accept trees
2. Make sure planting projects are not drop it and forget it
3. Help communities maintain and care for trees through education
4. Address financial burdens of tree care
5. Provide meaningful employment for community members
6. Work across divides to address intersectional EJ priorities

How to build bridges through community engagement

1. **Start with awareness**
2. **Slow your roll**
3. **Get flexible**
4. **Be Responsive**
5. **Support Sustainability**

Feedback: What's working

- Building relationships before IRA awards
- Removing barriers to resources

Feedback: What's Not

- Lack of awareness of eligibility
- Bureaucracy
- Limitations of our programming
- Timelines to action
- Too much talking, not enough action

Diverse Partnerships: Together we can advance justice

MN:

Working with urban farm and garden groups to co-create mini forests.

Supporting EJ organizers on residential relief efforts.

Photo credit: North News, 2022

PA:

Partnership Planting with TreePhilly

Diverse Partnerships: Together we can advance justice

LA: Food justice Citrus Program

OH: Education and action in community

Sustainability: How to support equity programming and staff

Organizational assessment questions:

- **Are divisions, agencies ready for change?**
- **How much support will existing staff need to support TES? Are you hiring additional staff?**
- **Will TES concentrate on focused efforts or be pulled in too many directions?**
- **How will TES guidance be handled?**
- **How will you involve and consult community with your programming?**

Thank you

Please find us afterwards to connect

Colleen Berg: Colleen.Berg@ dnr.ohio.gov

Preston Brooks: preston@ batonrougegreen.com

Ericka Popovich: epopovich@ bluewaterbaltimore.org

Kalaia Tripeaux: c- ktripeau@ pa.gov

Molly Codding: molly.codding@ state.mn.us

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Arbor Day Foundation

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2023

World Forum on Urban Forests

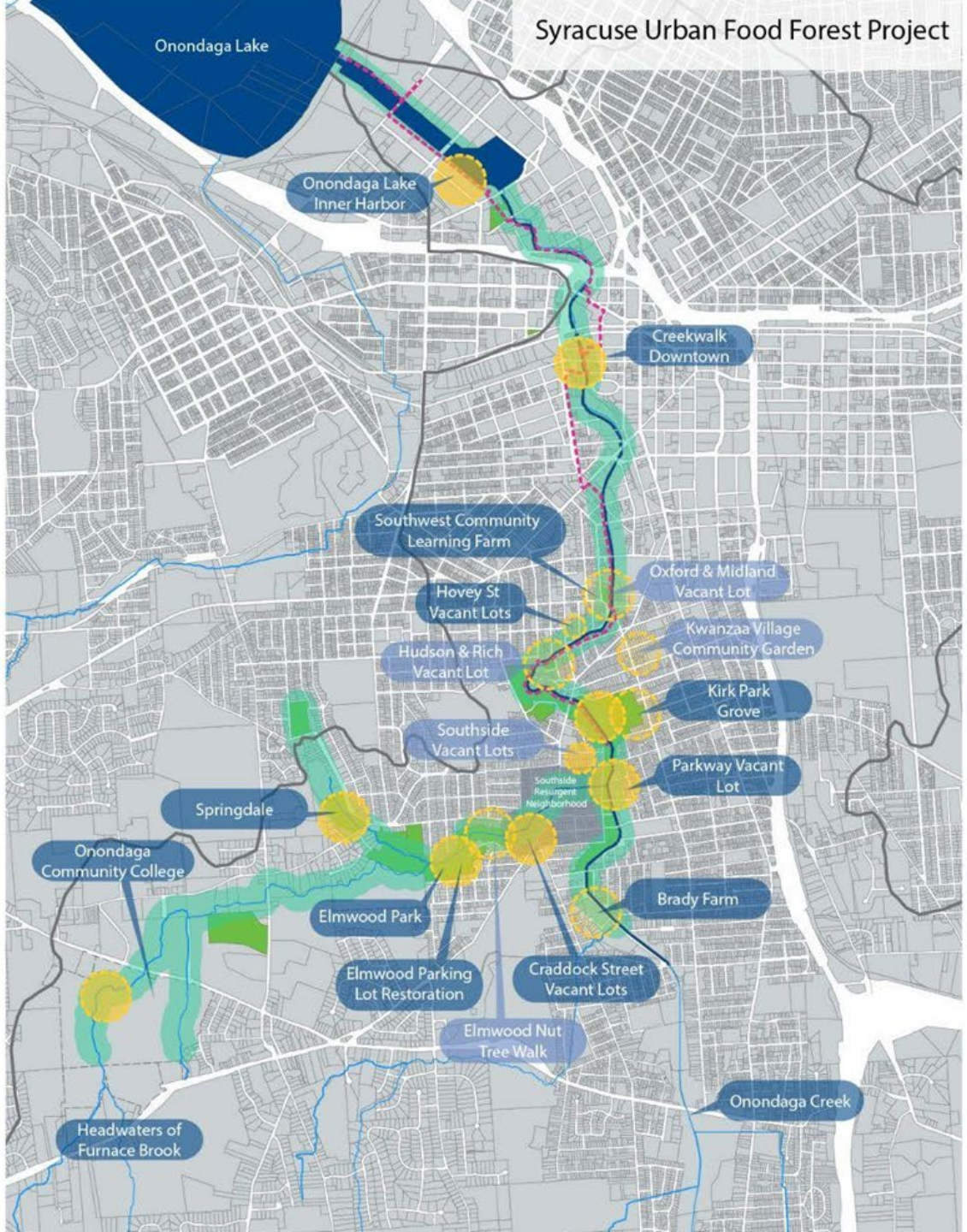
Biocultural Restoration for Canopy, Ecology and Community Equity

USDA Forest Service Great Lakes Restoration Initiative

Kat Korba, Kanopy Works LLC
Anne C Bellows, Professor Food Studies, Syracuse University
World Forum on Urban Forests
Washington D.C., 16-20 October 2023

Syracuse Urban Food Forest Project (SUFFP)

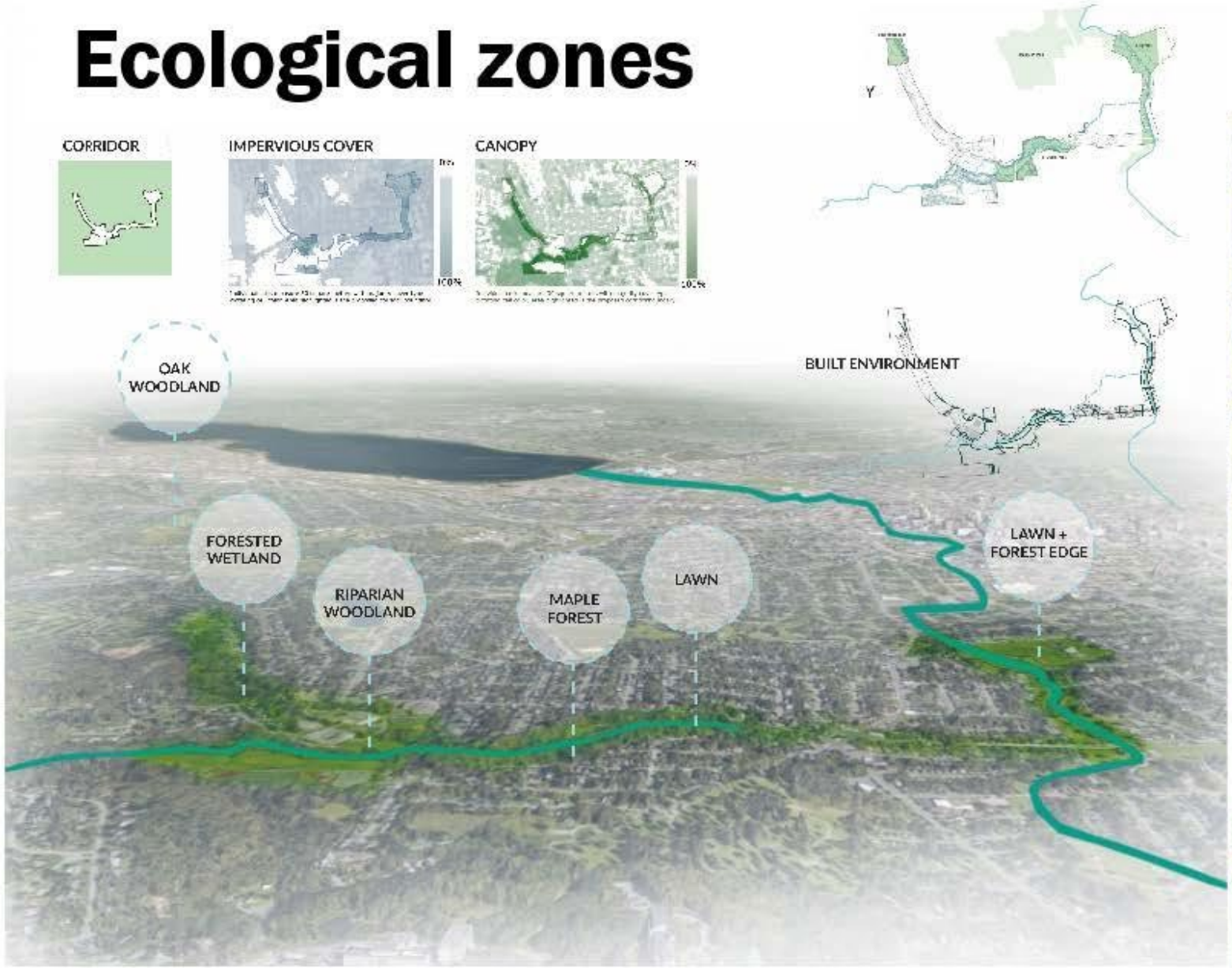
Area Map



Overview

- US Forest Service, GLRI (2021-2024)
- Plant 920 trees and 500 shrubs on 4.0 acres along 9.0 mile corridor in Syracuse, NY
- Community engagement and education with community planting events and community food walks
- Increase intercept by 3.5 M gallons; lower stormwater impact by 0.8M gallons over 20 years

Ecological zones



Lawn and riparian woodland

Syracuse Urban Food Forest Project

- Research collaboration between faculty, students, community organizations in Syracuse
- Combination of naturally growing and intentionally planted food forest
- Promotes community stewardship, restores wild food literacy, and encourages human-environment interaction

Community Researcher: Antonisha Owens
Research Assistants: Jess Cherofsky, Elena Juodisius, Marie Claire Bryant, Lisa Bush, Angelia Rossi, Ethan Tyo, Briana Okebalama, Grace Taylor, Theresa Ferrigno, Anna Gugerty, Gabrielle Reagan

Partners

- Syracuse City Depts Parks & Rec (Urban Forestry), Neighborhood & Business Dev (NBD)
- SUNY College of Environmental Science and Forestry (ESF)
- Syracuse University (SU)
- Onondaga Earth Corps (OEC)
- SW Learning Farm
- Onondaga Community College

Scope of Work

DESIGN

DESIGN a model food forest corridor that integrates ongoing green infrastructure plantings, and ecosystem types

- IA. Develop designs for 3 ecosystem types
- IB. Site-specific designs for 9 planting areas

ENGAGE

ENGAGE neighborhood and business community linked to efforts to improve environmental quality and financial opportunities for local residents

- IIA. Gather community input for design of plantings
- IIB. Share and communicate cross-generational foraging knowledge and practices

PLANT

PLANT food forest for green infrastructure systems in nine locations across a diverse economic and ecological cross-section of the city

- IIIA. Volunteer coordination and training for a total of 4 large community planting events
- IIIB. Maintenance. OEC will water all trees and shrubs planted for the first year after planting

MEASURE

MEASURE performance of food forest green infrastructure systems using quantitative modeling and qualitative assessment through evaluation

- IVA. Water infiltration
- IVB. Food availability
- IVC. Community engagement

Foraging, Public Access and the Honorable Harvest

The SUFFP increases access to public land for foraging

Foundational Underpinnings….

VOLUNTARY GUIDELINES ON THE

Responsible Governance of Tenure

OF LAND, FISHERIES AND FORESTS IN THE CONTEXT OF NATIONAL FOOD SECURITY

CFS Committee on World Food Security

2012

FAO FIAT PANIS

MILAN URBAN FOOD POLICY PACT

Milan Urban Food Policy Pact

15 October 2015

Gathering in Milano on the occasion of the Milan Expo *Feeding the Planet, Energy for Life*, **we hereby state:**

BY SIGNING THE MILAN URBAN FOOD POLICY PACT,
WE, THE MAYORS AND REPRESENTATIVES OF LOCAL GOVERNMENTS,
COMMIT TO THE FOLLOWING:

1. We will work to develop sustainable food systems that are inclusive, resilient, safe and diverse, that provide healthy and affordable food to all people in a human rights-based framework, that minimise waste and conserve biodiversity while adapting to and mitigating impacts of climate change;
2. We will encourage interdepartmental and cross-sector coordination at municipal and community levels, working to integrate urban food policy considerations into social, economic and environment policies, programmes and initiatives, such as, inter alia, food supply and distribution, social protection, nutrition, equity, food production, education, food safety and waste reduction;
3. We will seek coherence between municipal food-related policies and programmes and relevant subnational, national, regional and international policies and processes;
4. We will engage all sectors within the food system (including neighbouring authorities, technical and academic organizations, civil society, small scale producers, and the private sector) in the formulation, implementation and assessment of all food-related policies, programmes and initiatives;
5. We will review and amend existing urban policies, plans and regulations in order to encourage the establishment of equitable, resilient and sustainable food systems;
6. We will use the Framework for Action as a starting point for each city to address the development of their own urban food system and we will share developments with participating cities and our national governments and international agencies when appropriate;
7. We will encourage other cities to join our food policy actions.

…. For public access to urban forests for foraging

Responsible Governance of Tenure faces.....

Local contradictions in Syracuse municipal code...

Sec. 17-8. Interference with trees, shrubs, grass and soil.

No person shall:

(a) Climb, peel, cut, deface, remove, injure or destroy any tree in any park or playground;

(b) Pluck, break, trample upon or interfere with any flower or shrub in any park or playground;

(c) Stand, walk, ride or lie upon any part of a park or playground laid out and appropriated for grass or shrubbery when there shall have been placed thereon a sign forbidding the same;

(d) Take, dig, remove or carry away any sward, gravel, sand, turf or earth in any park or playground;

(e) Injure, deface, disturb or befoul any part of a city park or any buildings, signs, equipment, ornament, statue, fence, bridge, structure or other property within any part or park approach or within any other area under the control of the commissioner of parks, recreation and youth programs.

(Ord. of 6-10-68; L.L. No. 10-1994)

.. *Interfering with* public access to urban forests for foraging

Responsible Governance of Tenure: Amending Syracuse's foraging code

* Review of diverse US domestic codes
* Interviews with US active foragers and municipal officers
* Survey of Syracuse residents
* Proposal to 'Cuse City Council

Draft Municipal Code Proposal for Syracuse City Council

Plant foraging (the practice of identifying, collecting, and consuming wild edibles, also referred to as "gathering" or "harvesting") is permitted on public land in the City of Syracuse. **"Wild edibles"** are defined as both naturally occurring, i.e., without any human support, and as introduced and sometimes managed, as in the case of planted juneberry trees or fiddlehead fern. **Permission to forage is contingent** on its practice as respectful and responsible. Respectful and responsible foraging considers plants' sustainable reproduction needs, other human and non-human foraging interests, and never allows the taking of more than half of the existing edibles in any given space, as articulated in **Traditional Ecological Knowledge systems such as "the Honorable Harvest."** Foragers assume responsibility for their practice. The **City of Syracuse may not be held liable** for misidentification of plants, allergic reactions to plant consumption, or consequences of foraging practices (e.g. from poison ivy or deer tick presence).

Re-thinking Dietary Diversity (good nutrition) in an **Expanded Food System** that Includes Foraging Wild Edibles

We reviewed antioxidant phytochemicals that fight chronic disease

- Vitamin A
- Vitamin C
- Vitamin E
- Selenium
- Riboflavin

- Cancer
- Coronary Heart Disease
- Diabetes
- High blood pressure
- Kidney disease
- Obesity

Public Health

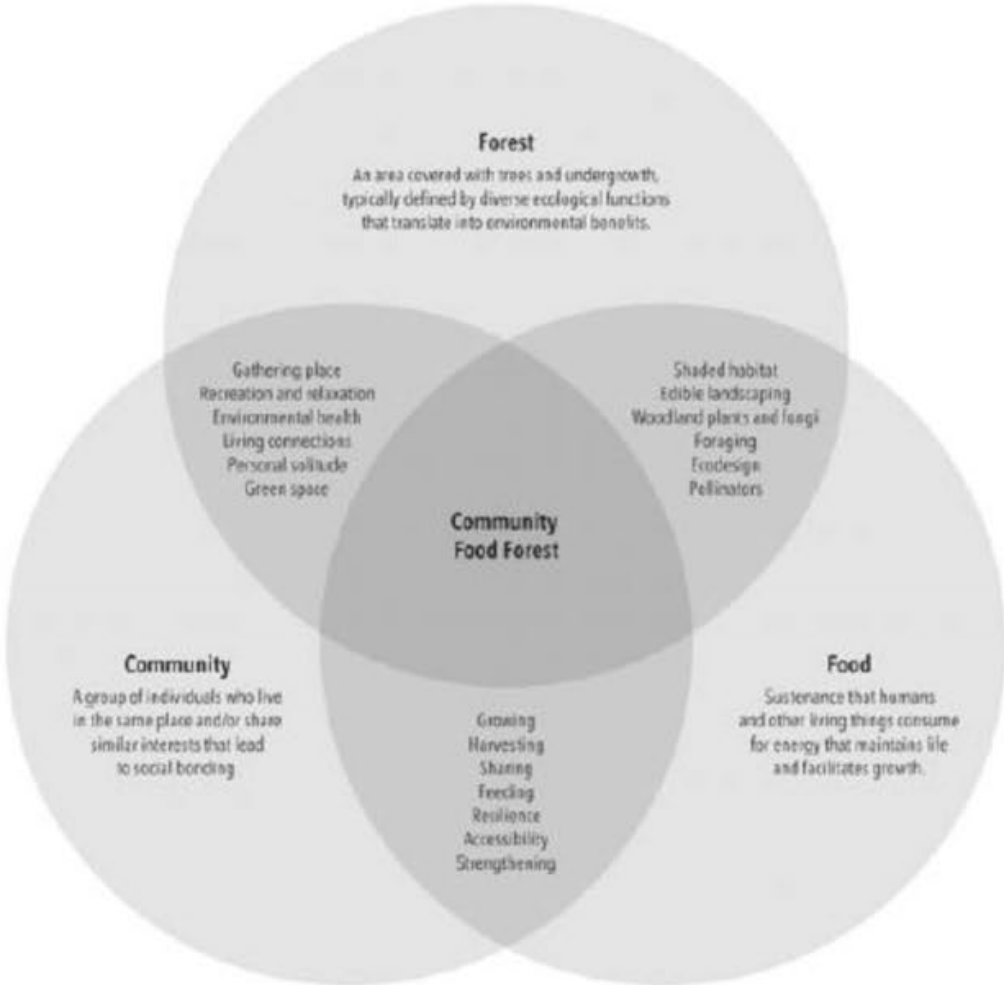
Nutrition Findings

1. **Valuable forageable foods** can be found in your own neighborhood. They are rich in antioxidant phytochemicals and **are at least as nutritionally valuable as commercial varieties.**

1. There is **missing data on nutritional content of most wild forageable foods** (largely free, “whole”, often in public commons) but lots of data on processed foods.

Under review: Bellows, Raj, Pitstick, Diemont, Potteiger. Foraging wild edibles: dietary diversity in expanding food systems. *Nutrients*.

Social Components of Community Food Forests



From Bukowski and Munsell. The Community Food Forest Handbook

The manner in which a food forest is integrated into the fabric of a community is as at least important as the trees that are planted and the food that is produced

Bukowski & Munsell, The Community Food Forest Handbook

Community food walks

Public Health, Community Engagement, and Environmental Justice

ENGAGE

Planting w/ Youth from OASIS SCHOOL

Chinkapin Oak, Quercus muehlenbergii

Chinkapin Oak, Quercus muehlenbergii

Destructive Forces
Ecological Forces
Edible Attributes
Physical Forces
Use Attributes
OAK DOMINATED FORESTS
COMMON SPECIES
White Oak Quercus Alba
Chestnut Oak Quercus Montana
Northern Red Oak Quercus Rubra
Black Oak Quercus Velutina
Sugar Maple Acer Saccharum
American Beech Fagus Grandifolia
NESTING
FRAGMENTATION
HARMFUL TO HUMANS
SOAK IN WATER
TANNIC
ACID
DECOMPOSITION
NATURAL REGENERATION
UPTAKE BY PLANTS
UPTAKE BY SOIL
POLLUTANTS
UNDERSTORY EDIBILITY
*see edibility guide
Extremely important food source

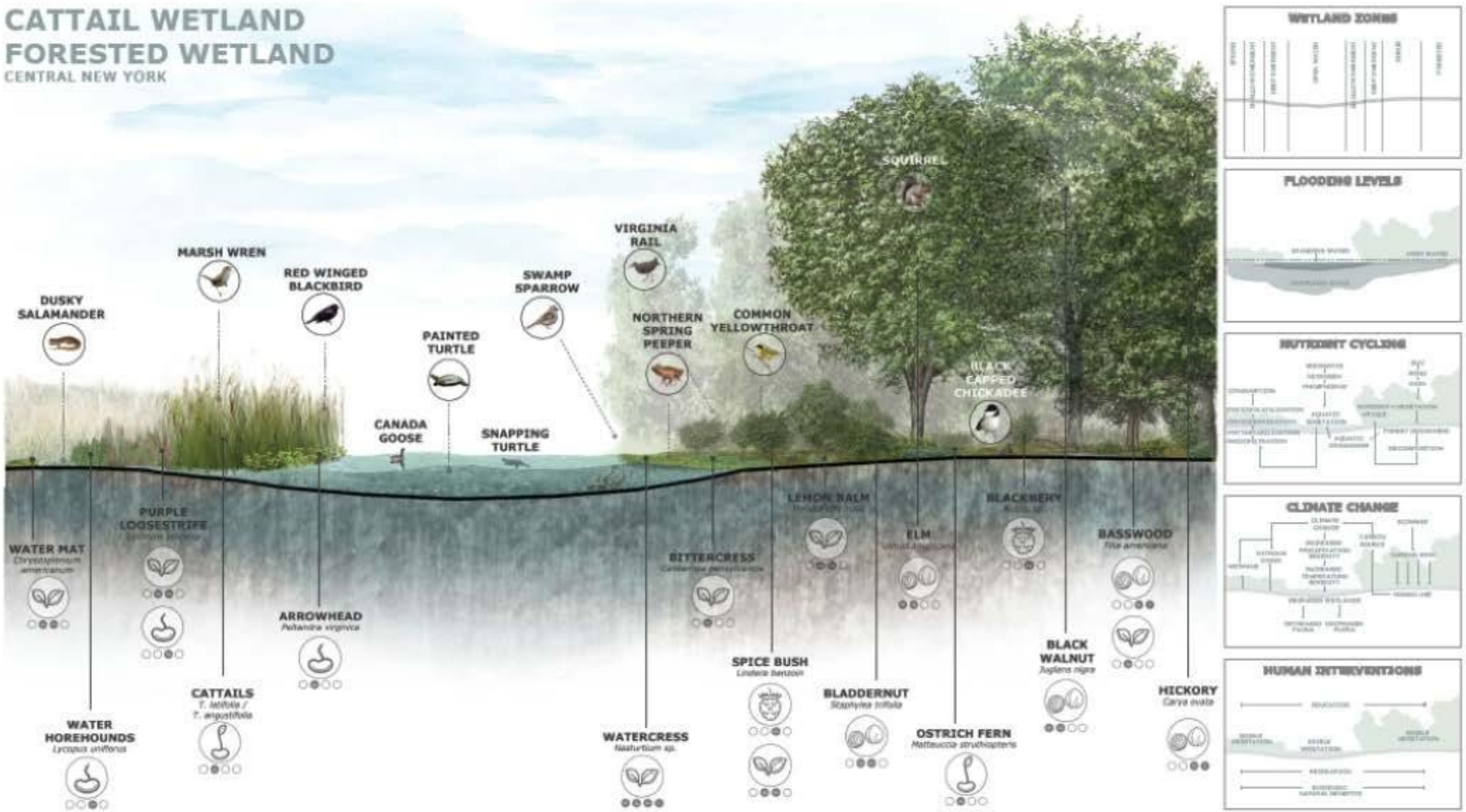
Bird community in food forest

- Quantification of bird community associated with food forest species
- Evaluation of mulberry and serviceberry
- 12 individuals of each tree
- During fruiting (June and July 2020) and during fall

Bird community

- Over 20 bird species found associated with mulberry and serviceberry
- Paired sampling revealed that serviceberry and mulberry support more species than without fruiting serviceberry and mulberry
- Serviceberry appears to have a greater influence on bird community than mulberry

Ecological zones

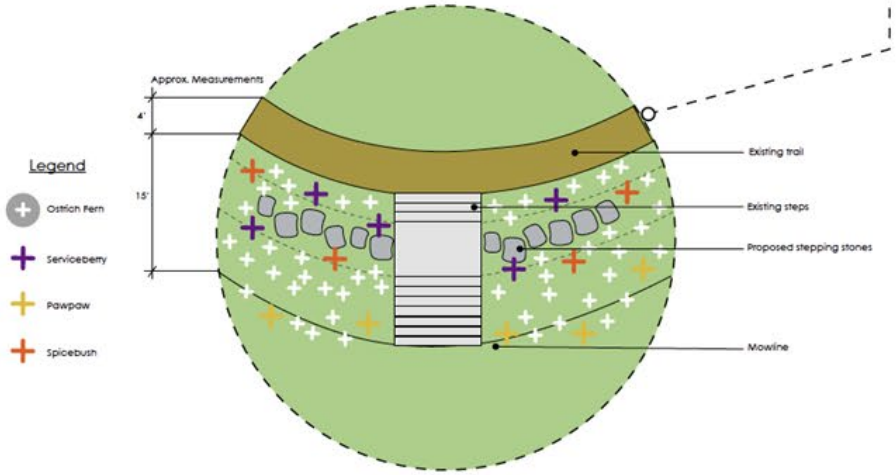


Green Infrastructure

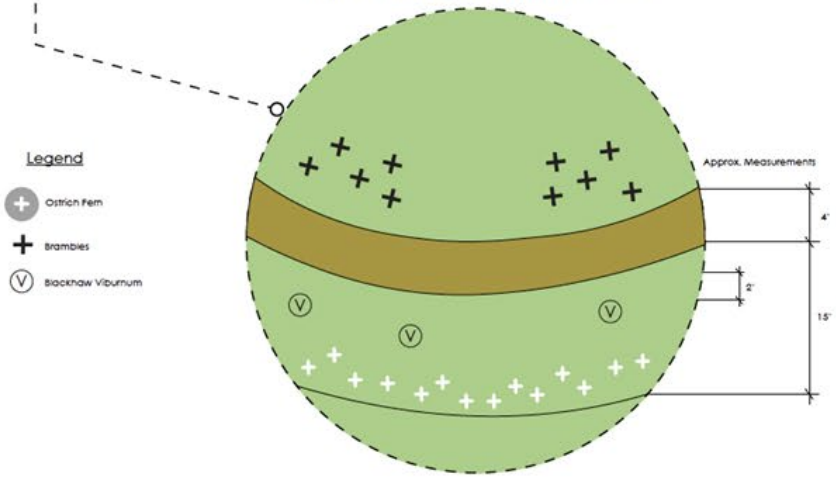
In addition to creating edible ecologies, the SUFFP provides important ecological services

NOVEL ECOSYSTEM STRUCTURE + FUNCTION:
PARKWAY: ELMWOOD PARK PROPOSED PLANT SPECIES

Proposed Planting Schematic: Stairs by Bridge



Proposed Planting Schematic: Brambles



Riparian

Pawpaw,
Asimina triloba

Upland Forest

Shagbark Hickory, Carya ovata

Forest Crop Trifecta

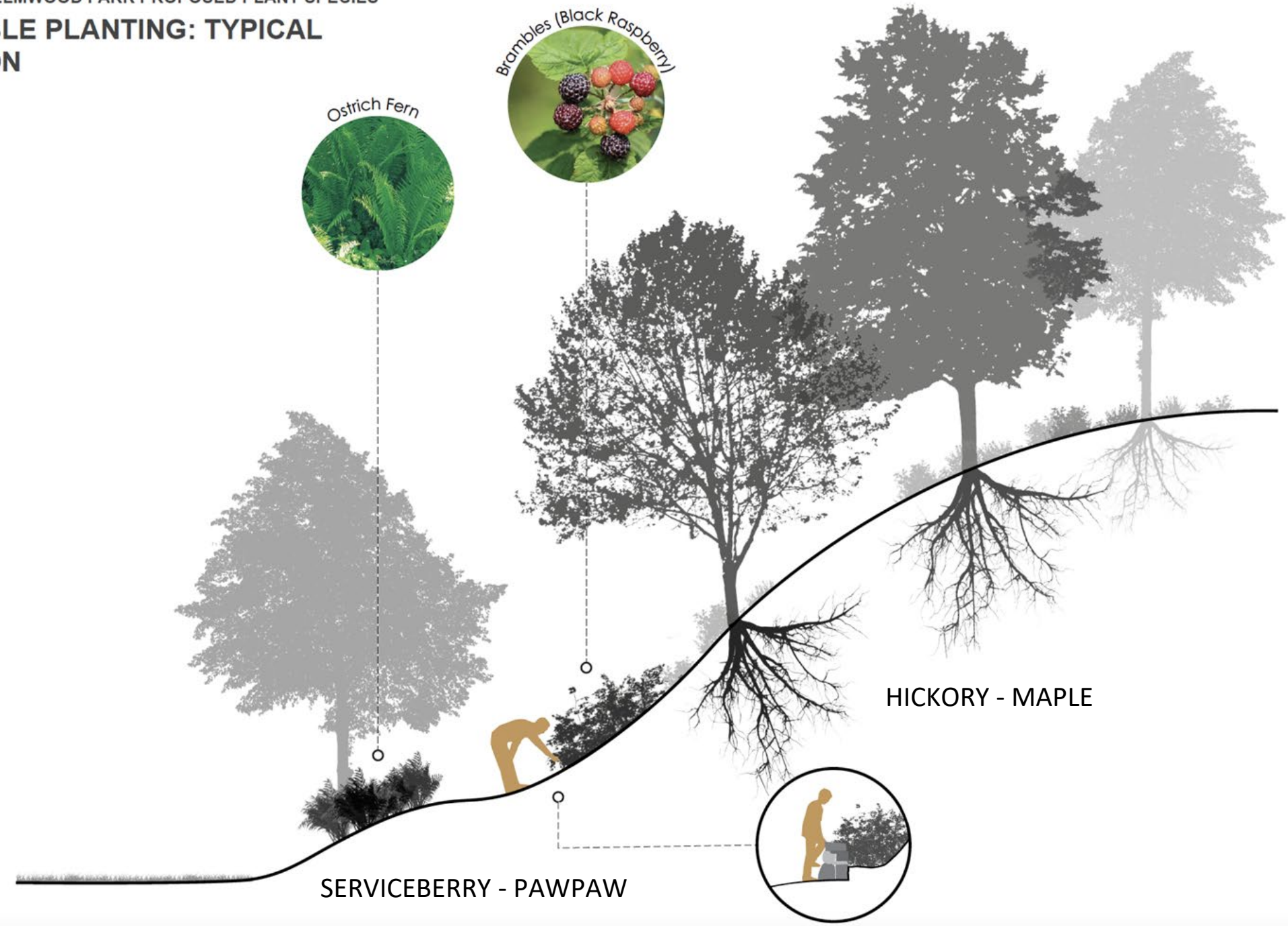
Sugar Maple

Hickory

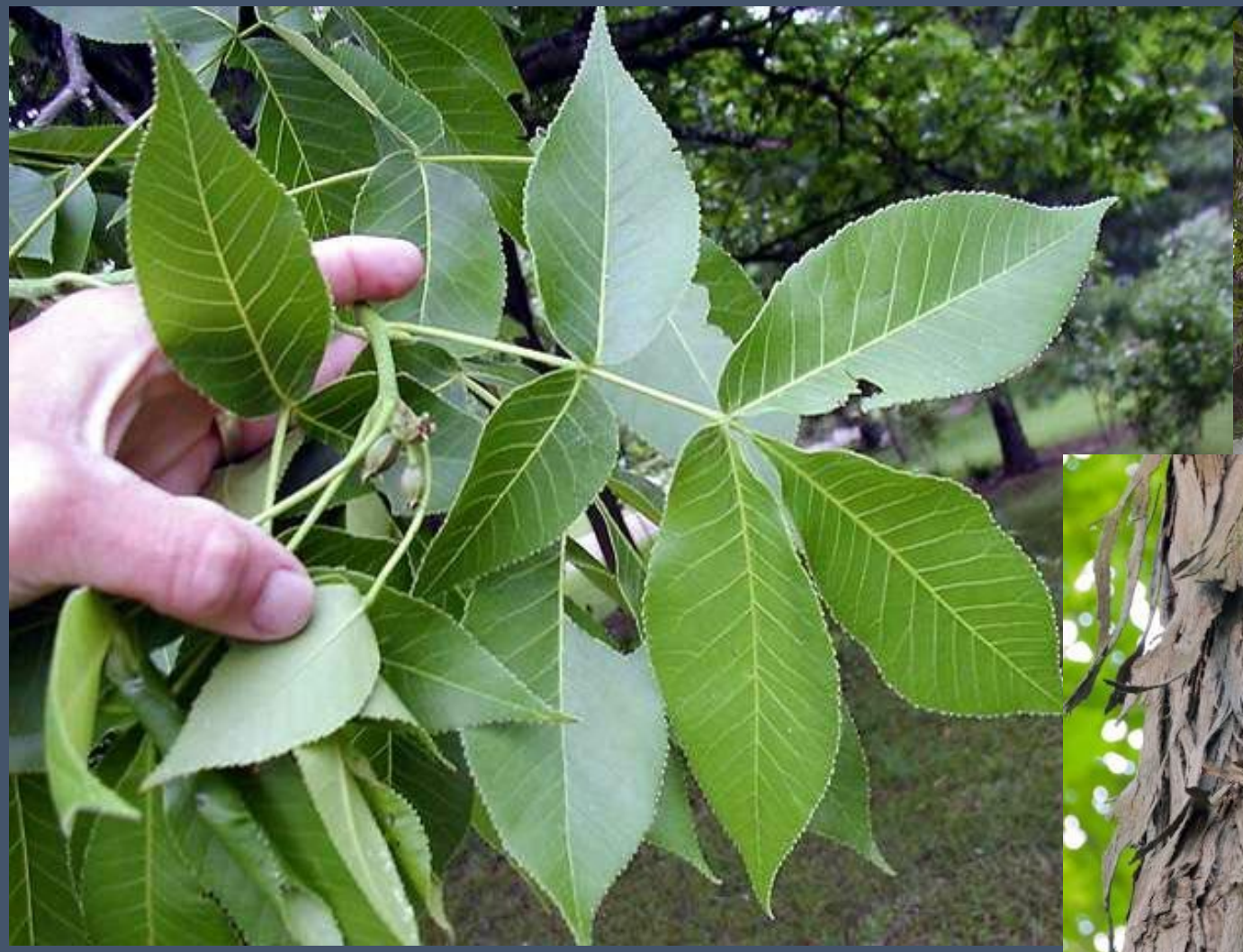
Ramps

PARKWAY: ELMWOOD PARK PROPOSED PLANT SPECIES

BRAMBLE PLANTING: TYPICAL SECTION



Shagbark Hickory (Carya ovata)

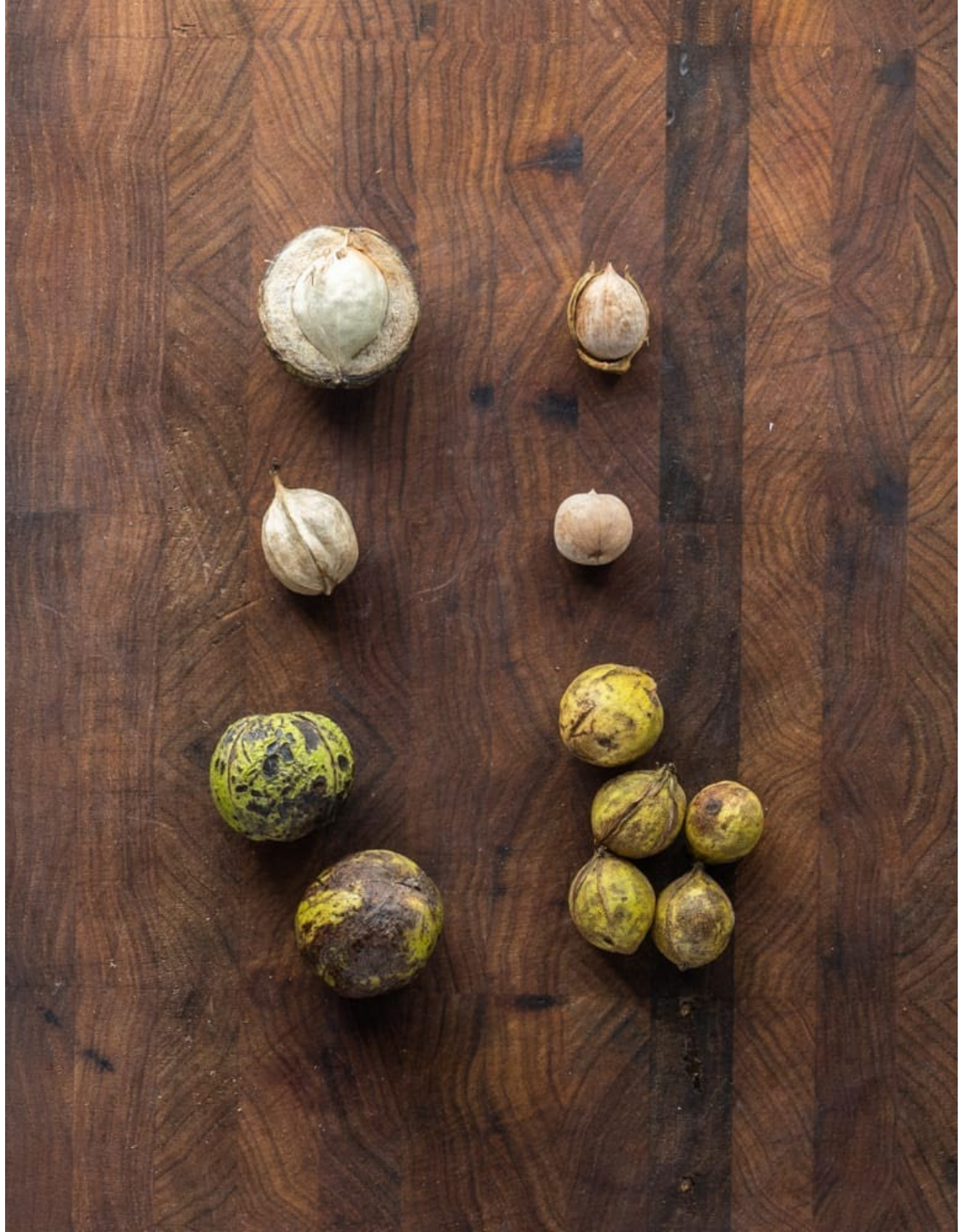


Kingnut Hickory/ Shellbark Hickory (Carya laciniosa)

Bitternut Hickory *(Carya cordiformis)*

Shagbark Hickory Nuts

Nut Weasel

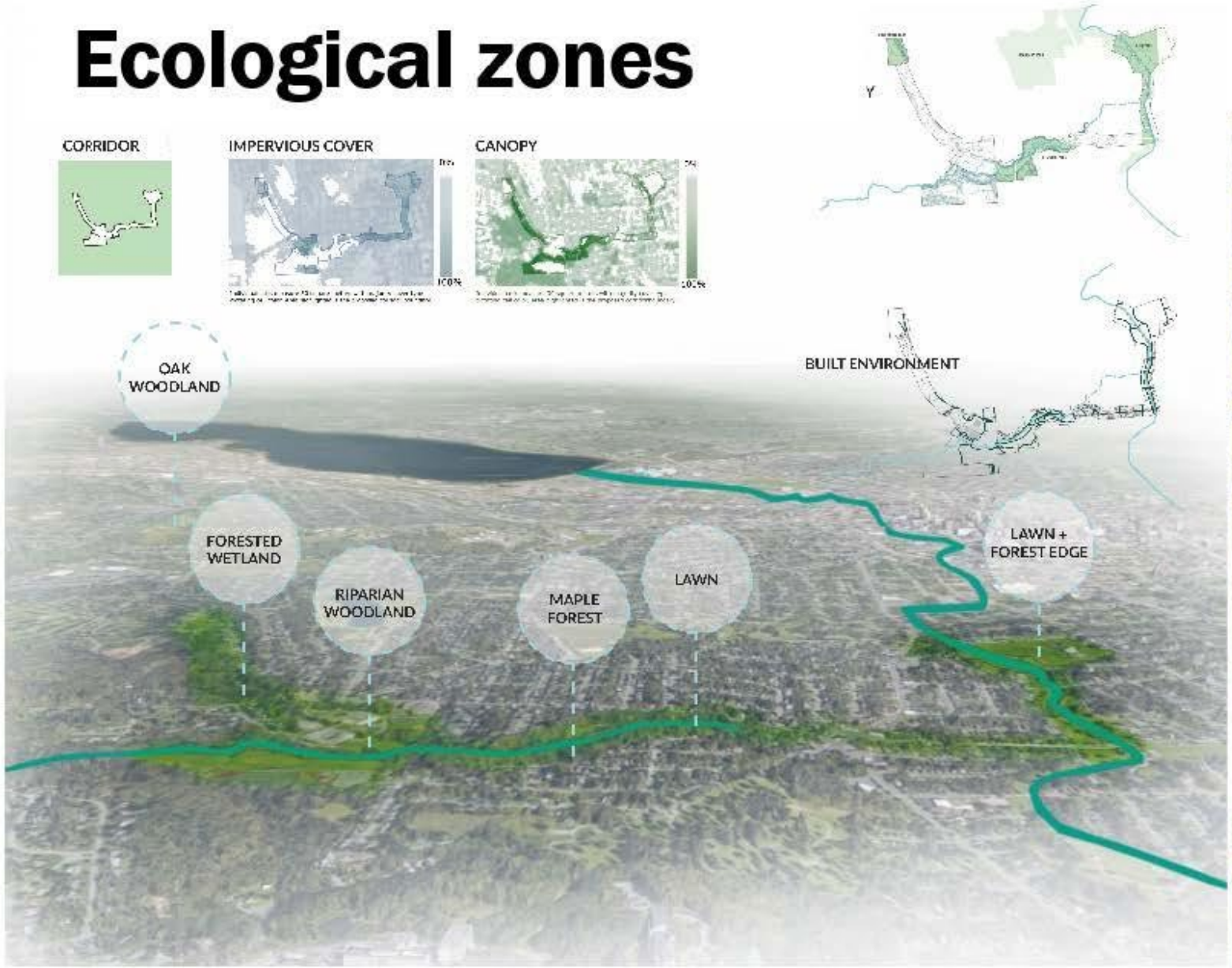


Bitternut Hickory Nuts

Bitternut Hickory Oil

Sam Thayer - https://foragerchef.com/sam-thayers-bitternut-hickory-nut-oil/

Ecological zones



Lawn and riparian woodland

Vacant Lots

HUDSON & RICH LOTS
LB Lindera benzoin Spicebush
VA Vaccinium angustifolium Lowbush Blueberry
RR Ribes rubrum Red Currant
RU Rubus ursinus Darrow Blackberry
RI Rubus idaeus Latham Red Raspberry
PV Prunus virginiana Chokecherry
AC Amelanchier canadensis Serviceberry
QM Quercus Muhlenbergii Chinkapin Oak
HC Castanea dentata x ... Hybrid Chestnut
PA Prunus americana Wild Plum
RA Rhus Aromatica Low Gro Sumac
Mix of: Baptisia, Coneflower, Aster, Goldenrod, Little Blue Stem, Wild Bergamot, Anise Hyssop
1" = 50'
N

Oxford St. Vacant Lot

ONONDAGA EARTH CORPS

90's

Kat Korba, Kanopy Works LLC
Kat.Kanopy@gmail.com

Anni Bellows, SU Food Studies Department
acbellow@syr.edu

2nd World Forum on Urban Forests

2023

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2nd World Forum on Urban Forests

Washington DC, 2023

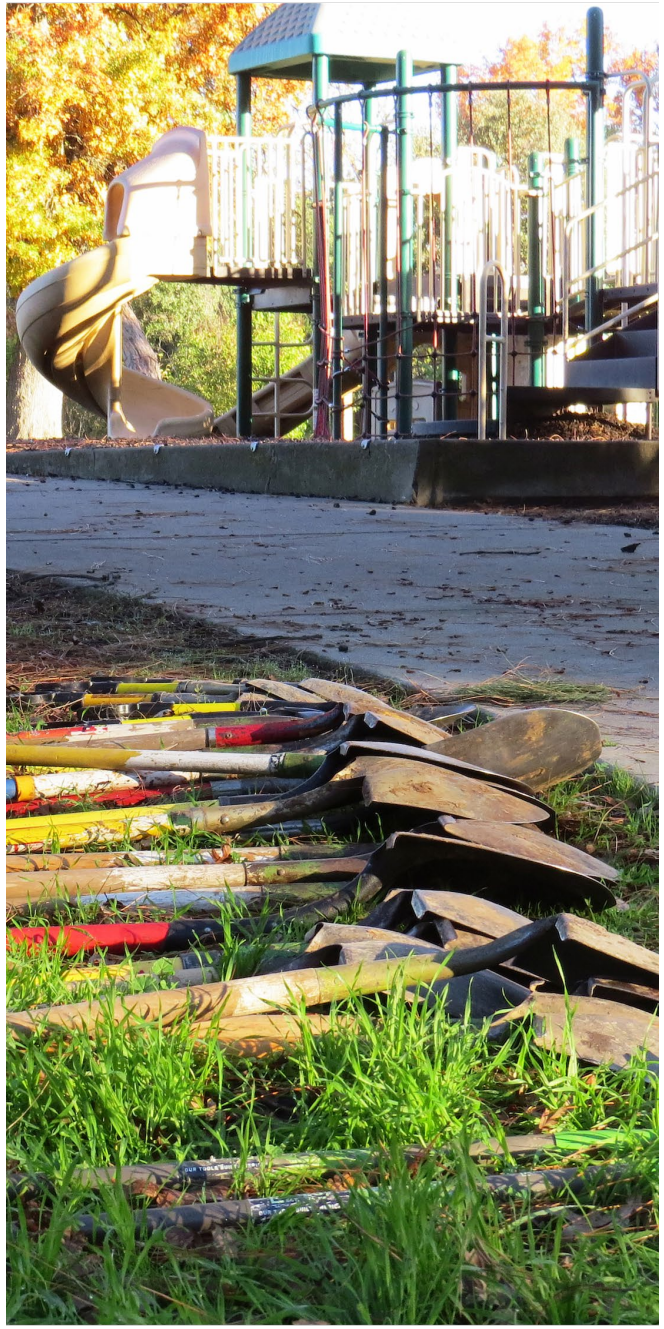
Holistic stewardship - engaging the public in all aspects of trees from seed to slab

Presented by

Jessica Sanders PhD, PMP

Executive Director

Sacramento Tree Foundation

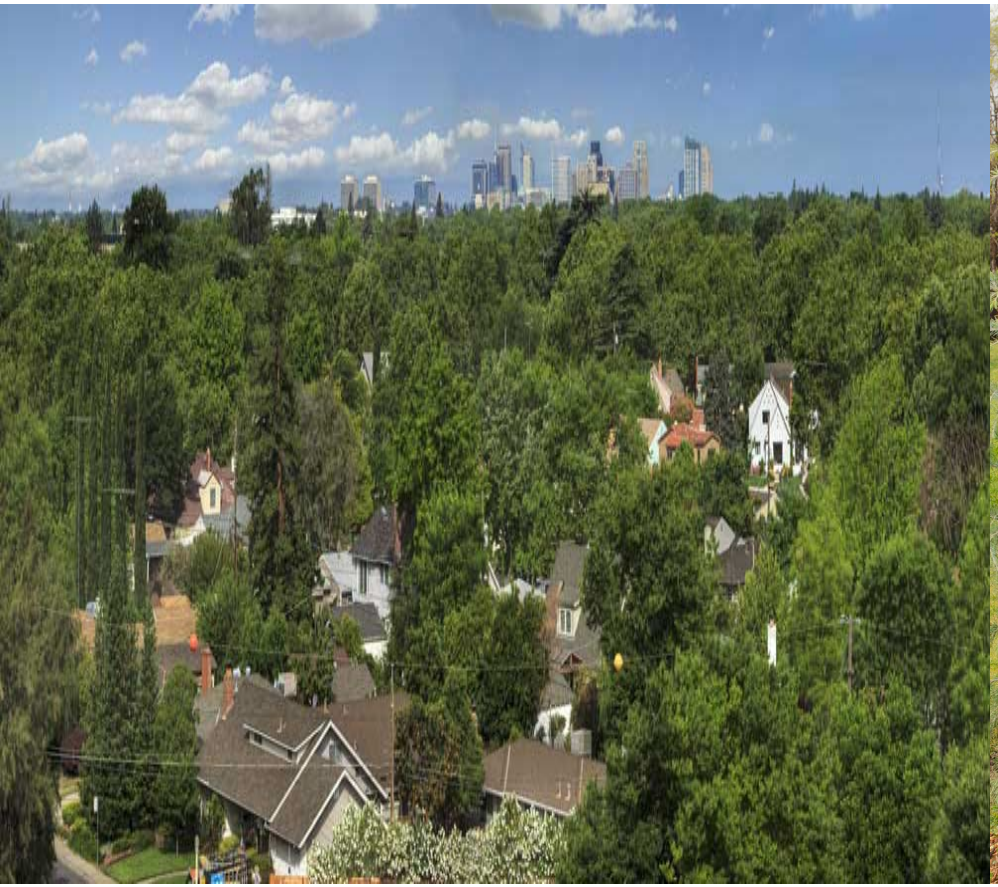


PROUD

Messaging - from Seed to Slab

Engaging the next generation of environmental stewards.

Restoring natural spaces with kids of all ages



Partnering with undercanopied communities to create lasting change.

Honoring our region's trees when they are removed

Placemaking for communities with trees

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Focusing on equity internally

Our Healthy Forest is a Diverse One
Our mission is to grow thriving communities through stewardship of our urban forest. We seek to honor the diversity and roots of this region by prioritizing equity internally and externally. We bring our whole selves and celebrate one another. From seed to slab, we work with communities to create live-able and loveable communities for everyone.
And by everyone, we mean everyone.

Thank you

Jessica Sanders PhD, PMP| Sacramento Tree Foundation

Executive Director

Jessica@ sactree.org

Food and Agriculture Organization of the United Nations

Arbor Day Foundation

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ISA International Society of Arboriculture

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2nd World Forum on Urban Forests

2023

World Forum on Urban Forests

2nd World Forum on Urban Forests

Washington DC, 2023

An ongoing study:

Priorities for afforestation areas on a national scale

Presented by

Chiara Gibertini

Giorgio Vacchiano, Fabio Salbitano, Maria Chiara Pastore

Livia Shamir, Luis Pimentel and Simone Marchetti

Tree restoration

Territorial governance

3 bilions trees by 2030

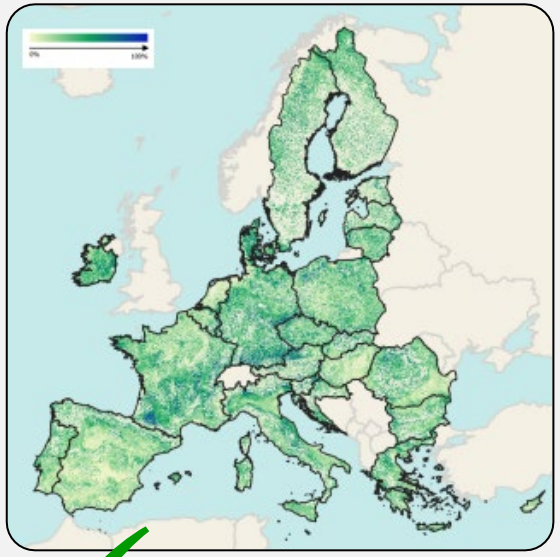
6.6 million trees in metropolitan cities by 2030

and

CO_2 compensation

Where?

What already exists?



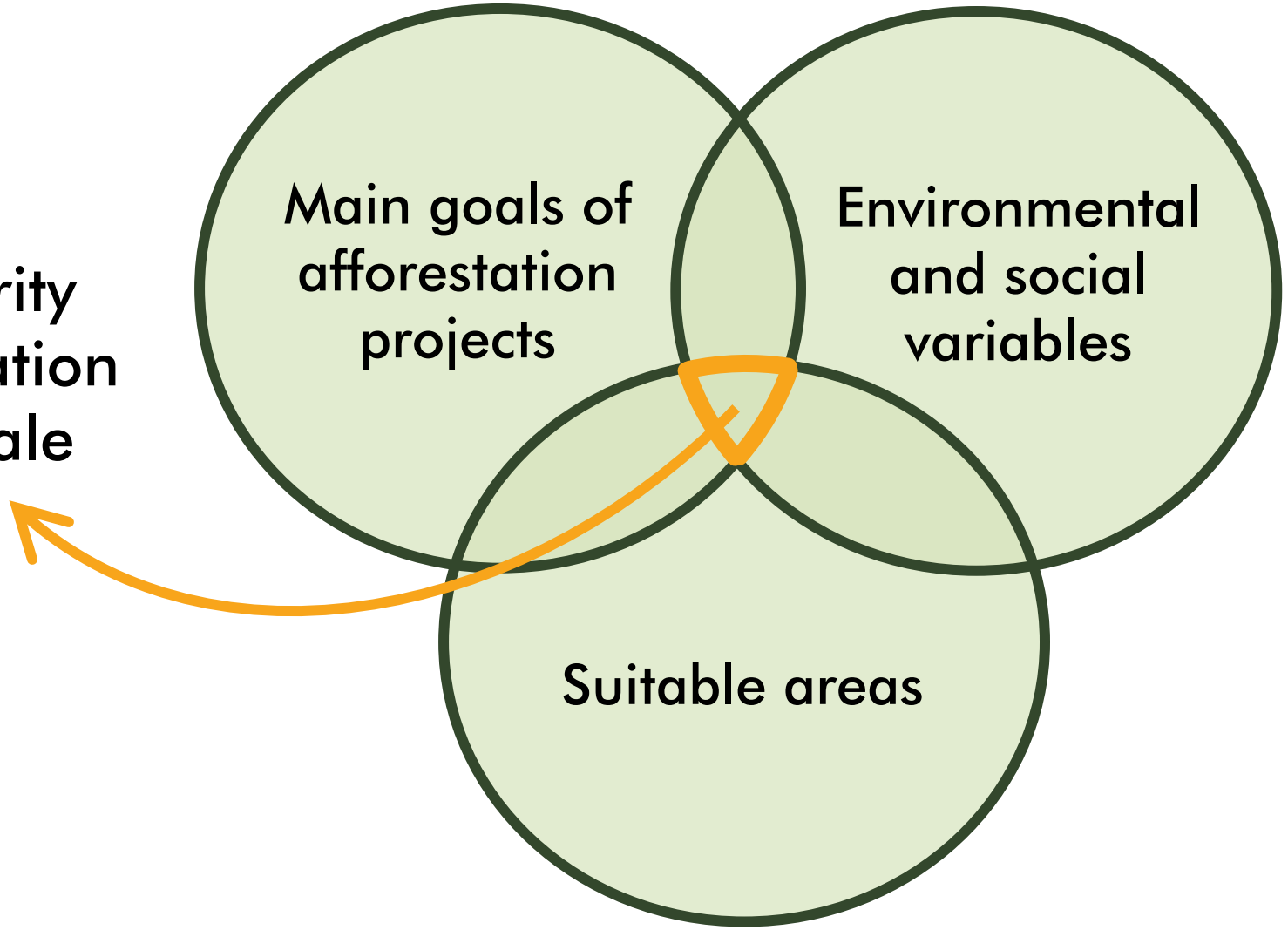
✓ *Map of natural tree restoration potential*

What is missing?

Mapping of priority areas for afforestation to maximize benefits

Objective

Mapping of priority areas for afforestation on a national scale

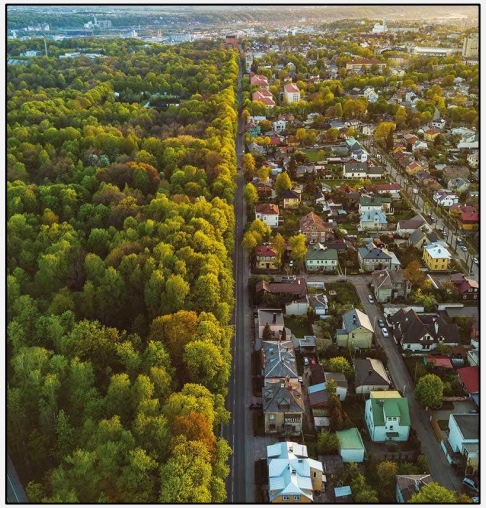


Suitable areas

Excluding:

- ✗ Existing forests - *Source: Corine Land Cover 2018*
- ✗ Impervious surfaces - *Source: Corine Land Cover 2018*
- ✗ Protected areas - *Source: World Database on Protected Areas (WDPA); Ramsar Sites Information Services*
- ✗ Wetlands - *Source: Corine Land Cover 2018*
- ✗ Elevations above 1600 m

- ! Agricultural areas → agroforestry and/or planting along field edges
- ! Urban areas



Main goals of afforestation projects

- Ecological connectivity and biodiversity conservation
- Restoration of degraded areas and ecosystems
- Protection from hydrogeological instability
- Carbon sequestration
- Urban afforestation and provision of ecosystem services
- Wood production
- Combating desertification/drought

Ecosystem Services & Biodiversity

(Source: FAO)

Habitat for species; Pollination

Habitat for species

Moderation of extreme events

Carbon sequestration and storage

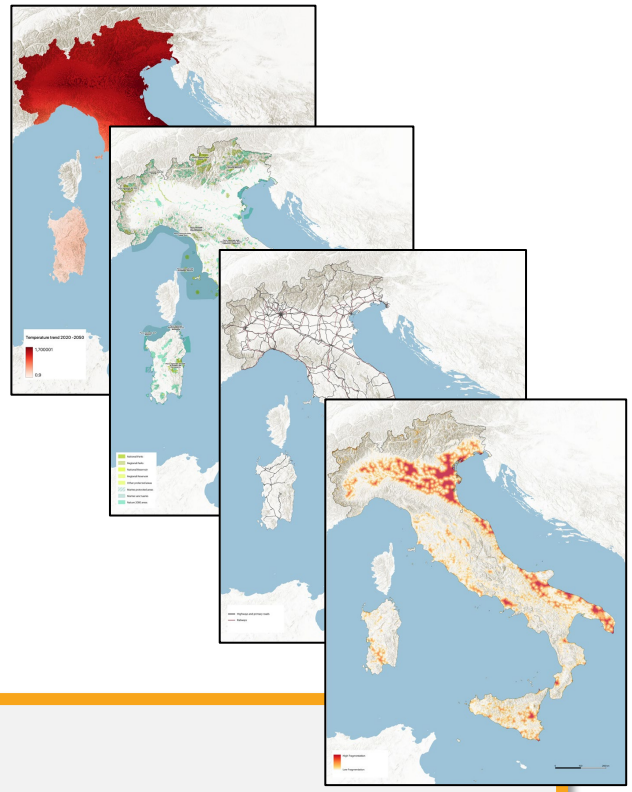
Local Climate Air Quality;
Recreation and mental and physical health;
Aesthetic appreciation and inspiration for culture, art and design

Raw materials

Regulation of Water Flow

Environmental and social needs

Variables



- Spatially explicit
- Mapping available on a national scale

- Distribution of protected and/or natural areas *(e.g. distance to the nearest protected area - Source: WDPA; Ramsar Sites Information Services)*
- Climatic and environmental conditions *(e.g. future temperature trend - Source: ClimateEU)*
- Land use *(e.g. habitat fragmentation - Source: G.Vacchiano & S.Galimberti)*
- Anthropic presence *(e.g. population density per municipality - Source: ISTAT 2022)*
- Prevention *(e.g. hydrogeological risk from superficial landslides and floods - Source: ISPRA)*

Main goals of afforestation projects

There are others?

Variables

There are others?

What are their wheights?

Survey among experts in:

- Forestry
- Agronomy
- Ecology

from all regions of Italy

Structured interview

Semi-quantitative data
(high, medium, low weight of variables)

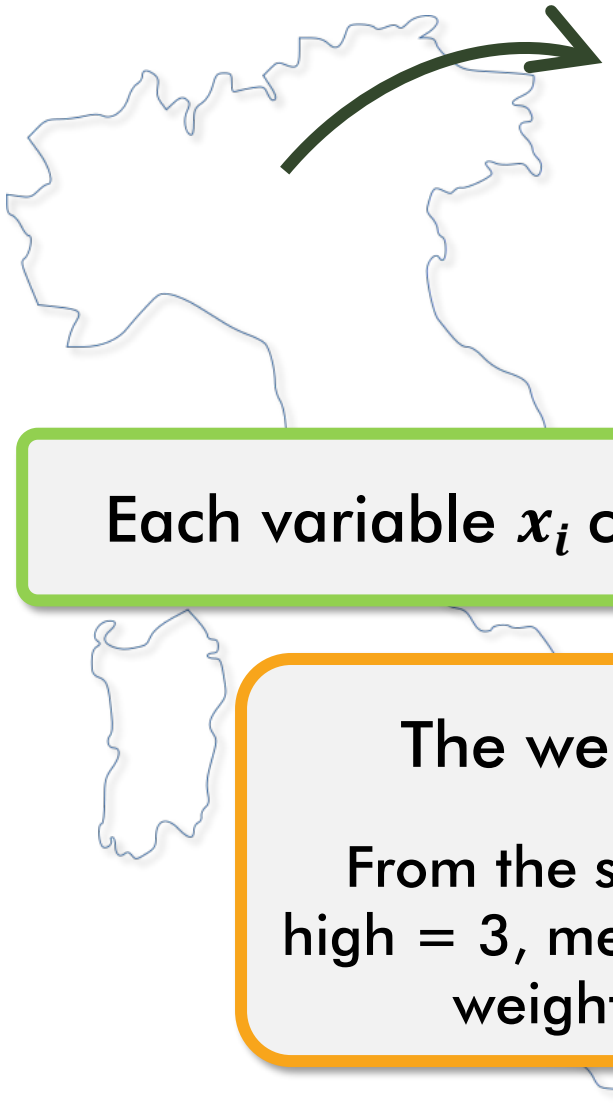
Distribuited online

A raster file made with GIS with a resolution of 1 km

For each main goal (y_j), each point is assigned a score S_j between 0 and 100

$$S_j = \sum_i x_i \cdot w_{ij}$$

A raster file made with a resolution of 1 km



For each main goal (y_j), each point is assigned a score S_j between 0 and 100

$$S_j = \sum_i x_i \, w_{ij}$$

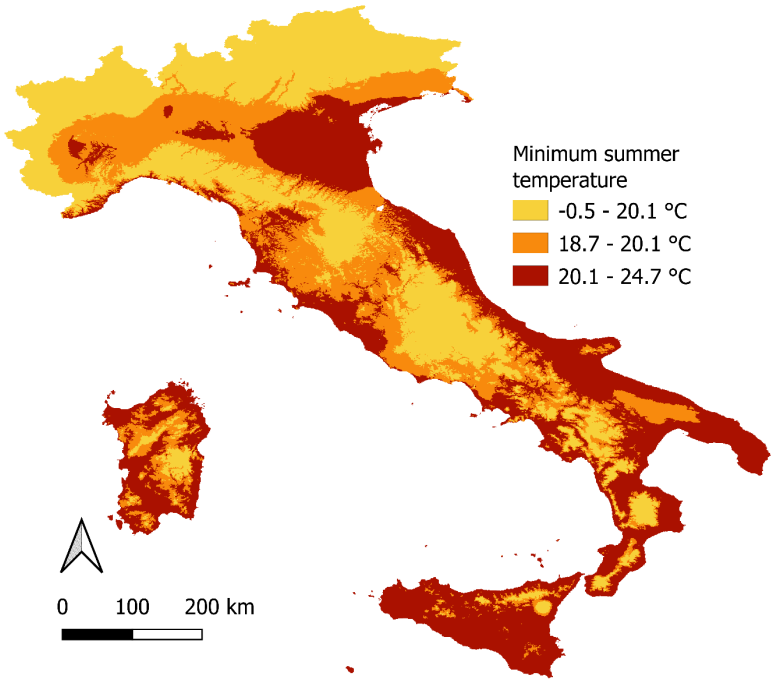
Each variable x_i can take values between 0 and 1

The weight w_{ij} of variable x_i for the main goal y_j. $0 \leq w_{ij} \leq 100$

From the survey responses: high = 3, medium = 2, low = 1 weight of variables → Square of mean value → Percentage value on the total sum

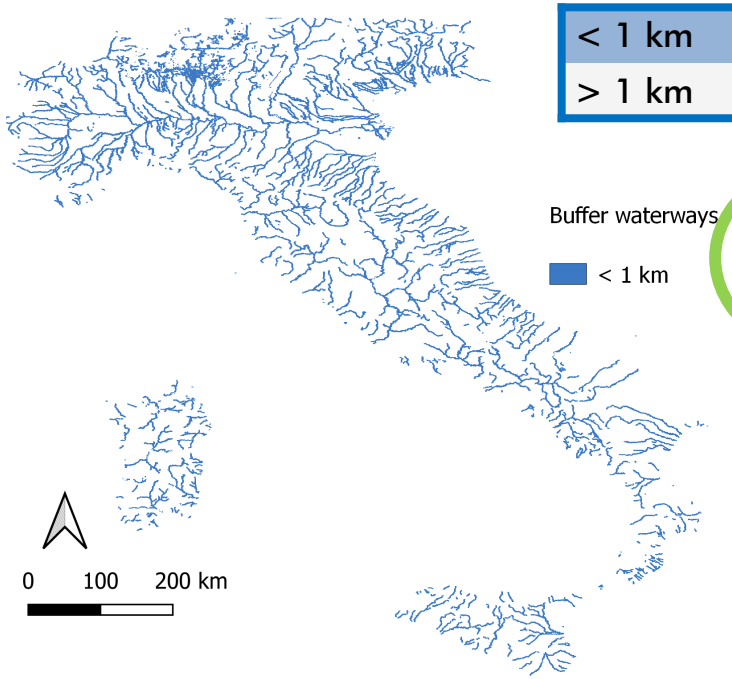
w_{ij}

	Ecological connectivity and biodiversity conservation	Urban afforestation and provision of ecosystem services
Minimum summer temperature	10	15
Proximity to waterways	13	7



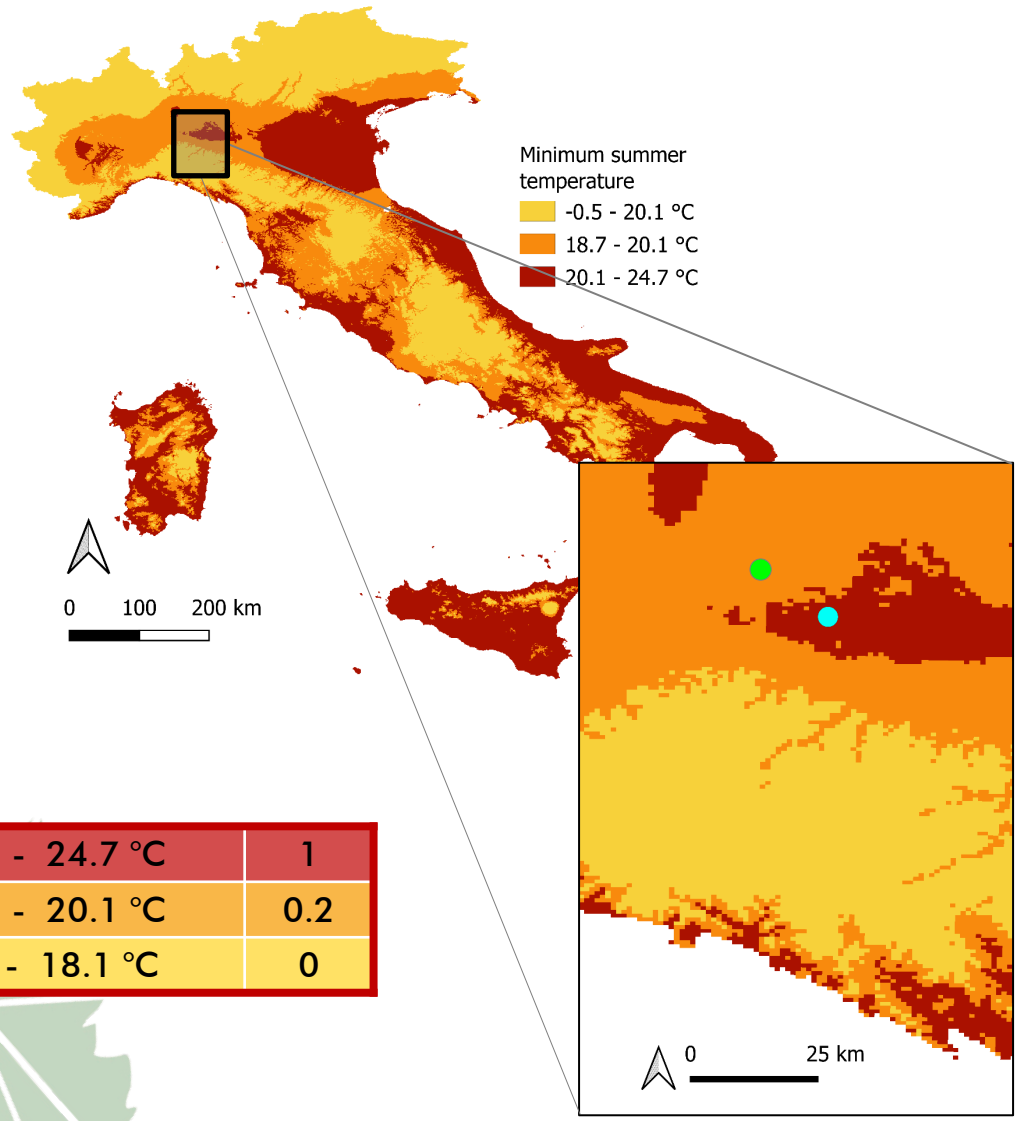
20.1°C - 24.7 °C	1
18.7°C - 20.1 °C	0.2
-0.5°C - 18.1 °C	0

x_i

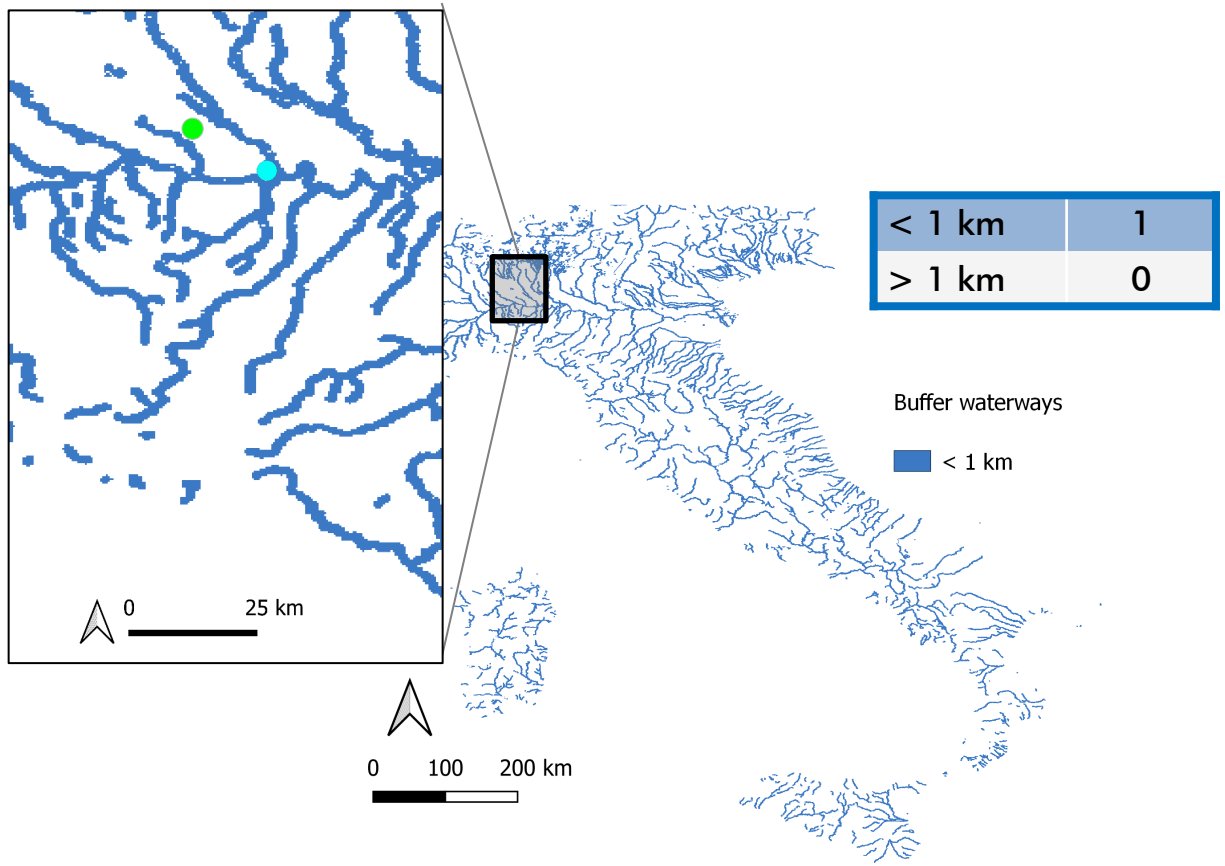


< 1 km	1
> 1 km	0

x_i



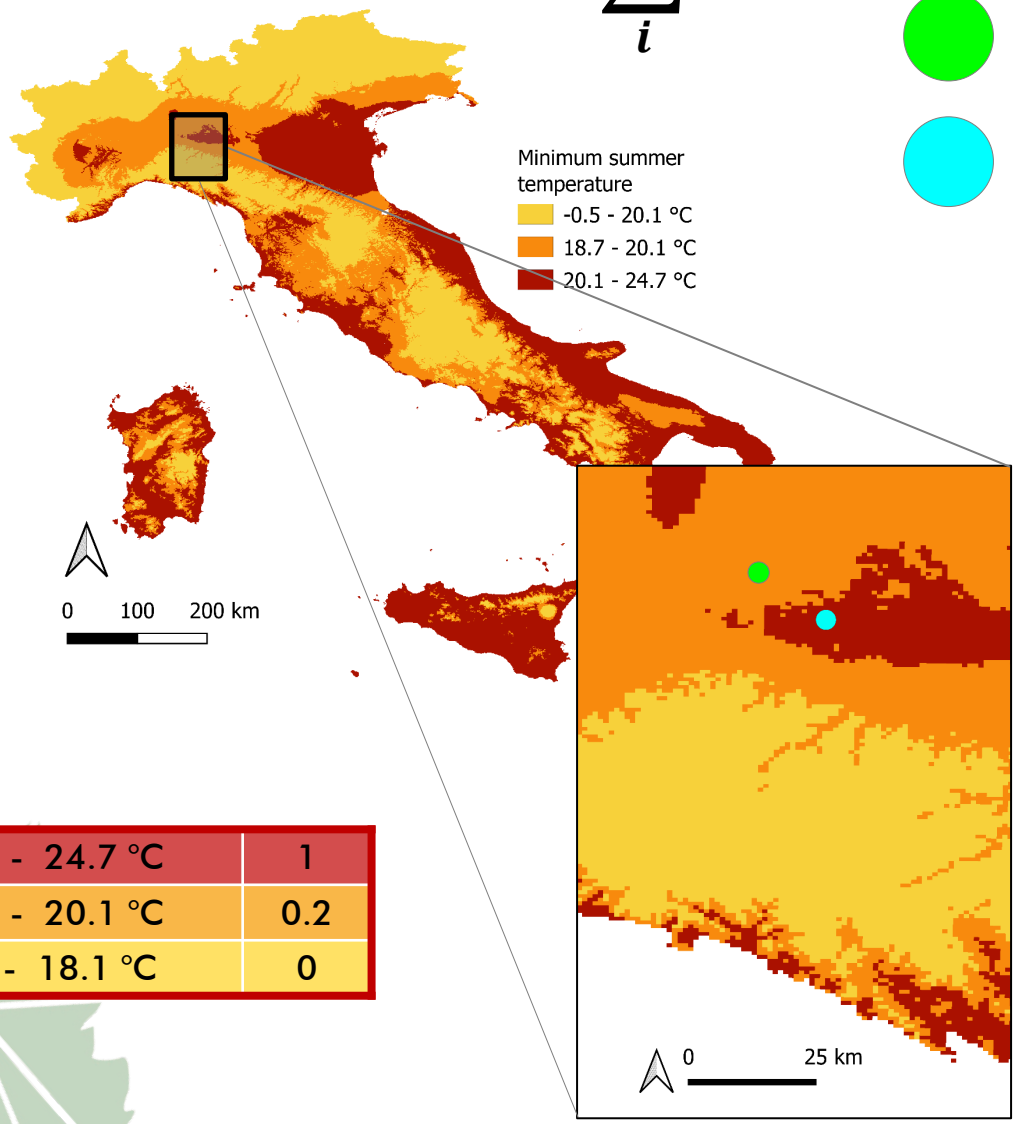
20.1°C - 24.7 °C	1
18.7°C - 20.1 °C	0.2
-0.5°C - 18.1 °C	0



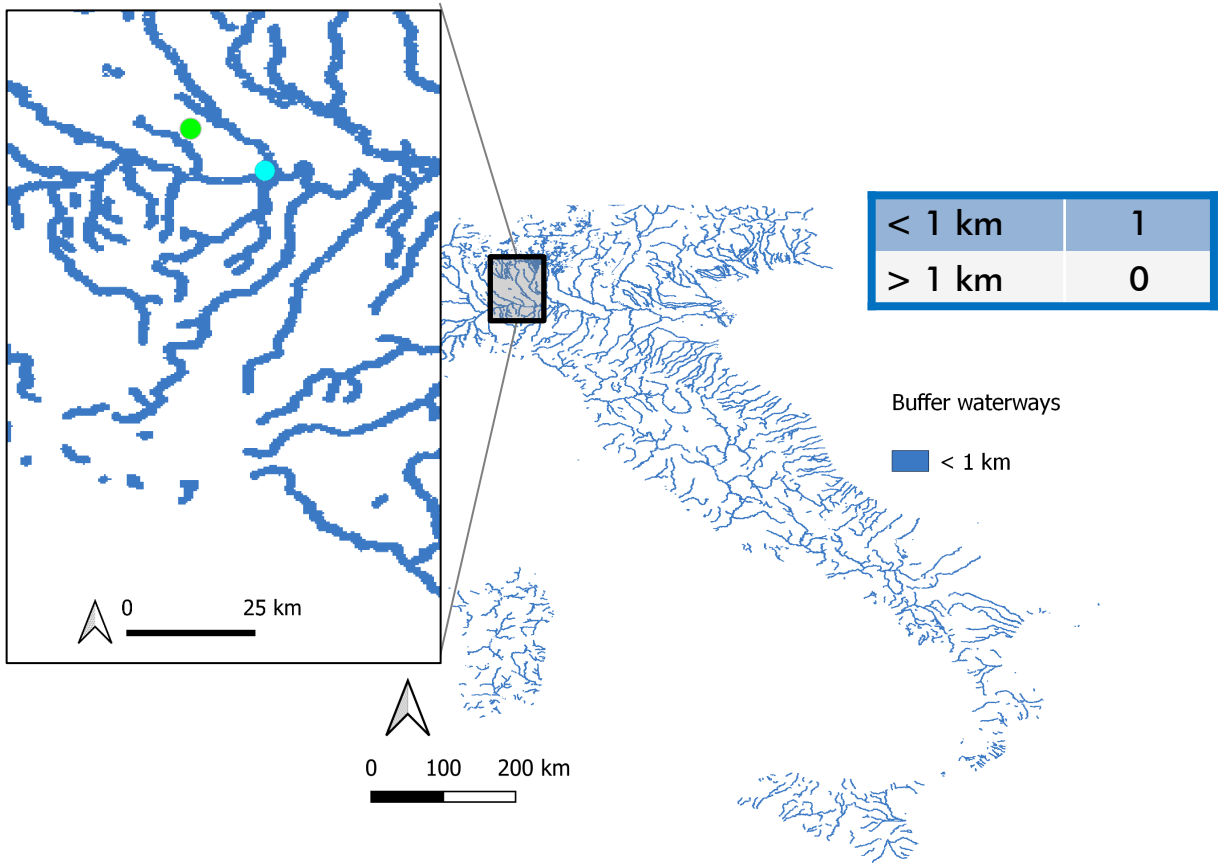
< 1 km	1
> 1 km	0

$$S_j = \sum_i x_i \cdot w_{ij}$$

Ecological connectivity and biodiversity conservation	Urban afforestation and provision of ecosystem services
0.2 x 10 + 0 x 13 + …	0.2 x 15 + 0 x 7 + …
1 x 10 + 1 x 13 + …	1 x 15 + 1 x 7 + …



20.1°C - 24.7 °C	1
18.7°C - 20.1 °C	0.2
-0.5°C - 18.1 °C	0



< 1 km	1
> 1 km	0

Survey results

- > 200 responses
- From all regions of Italy

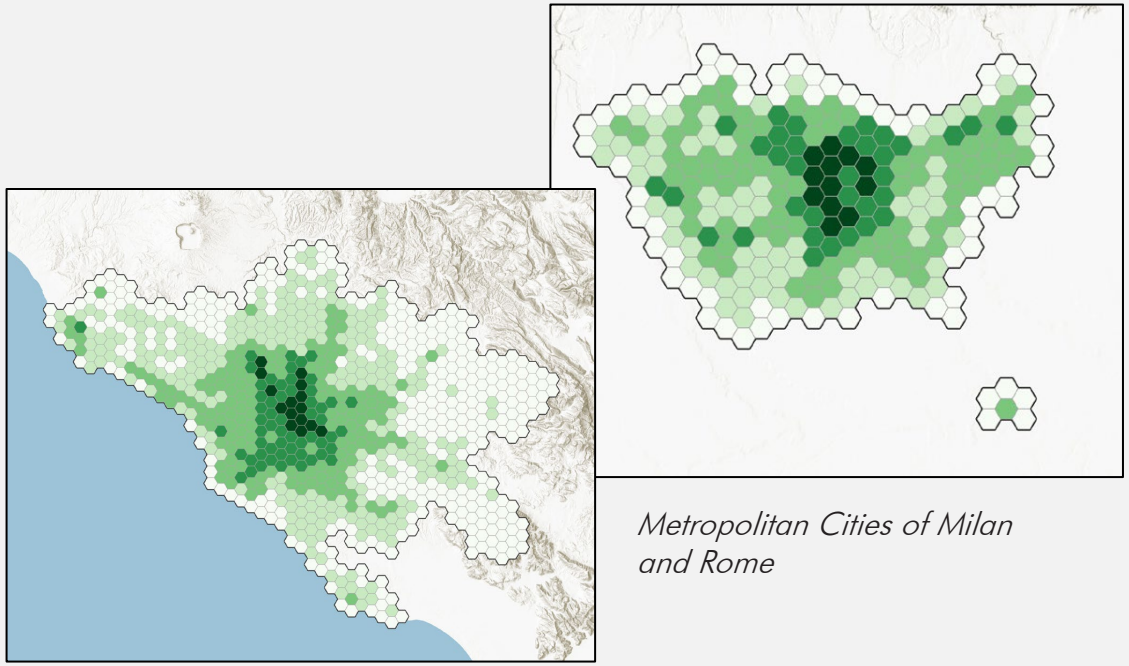
	Ecological connectivity and biodiversity conservation	Urban afforestation and provision of ecosystem services
Habitat fragmentation	17	8
Proximity to roads and railways	7	9
Presence of tourist/cycling itineraries	7	11
Minimum summer temperatures	8	13
Future temperature trend	10	13
Exceeding the daily PM10 limit value	7	14
Density population per municipality	3	11
Hydrogeological risk from superficial landslides and floods	10	5
Post-fire recovery potential	9	5
Proximity to waterways	11	7
Distance from protected natural areas	10	4

Preliminary results of mapping

Ecological connectivity and biodiversity conservation

Urban afforestation and provision of ecosystem services

on the 14 Italian metropolitan cities



Metropolitan Cities of Milan and Rome

Conclusions

- These maps can be used as first support to planning decisions at the regional or provincial scale.

- The same system of scores could be used on a much finer scale to optimize the actual location of each afforestation project → Urban forest

For the future:

- Expand the study to other main goals;

- Add more variables → ! Attention to multicollinearity problems
  ! Availability of adequate maps on a national scale

Thank you

Chiara Gibertini
University of Milan
Chiara.gibertini@ unimi.it

Chiara Gibertini[1], Giorgio Vacchiano[1,2], Fabio Salbitano[2,3], Maria Chiara Pastore[4], Livia Shamir[5], Luis Pimentel[5] and Simone Marchetti[5]

[1] *Department of Agricultural and Environmental Sciences, Università degli Studi di Milano, Italy;* [2] *Fondazione AlberItalia ETS, Santa Sofia, Italy;* [3] *Department of Agriculture, Università degli studi di Sassari, Sassari, Italy;* [4] *Politecnico di Milano, Milan, Italy;* [5] *Stefano Boeri Architetti, Milan, Italy*

2nd World Forum on Urban Forests

2023

World Forum on Urban Forests

2nd World Forum on Urban Forests

Washington DC, 2023

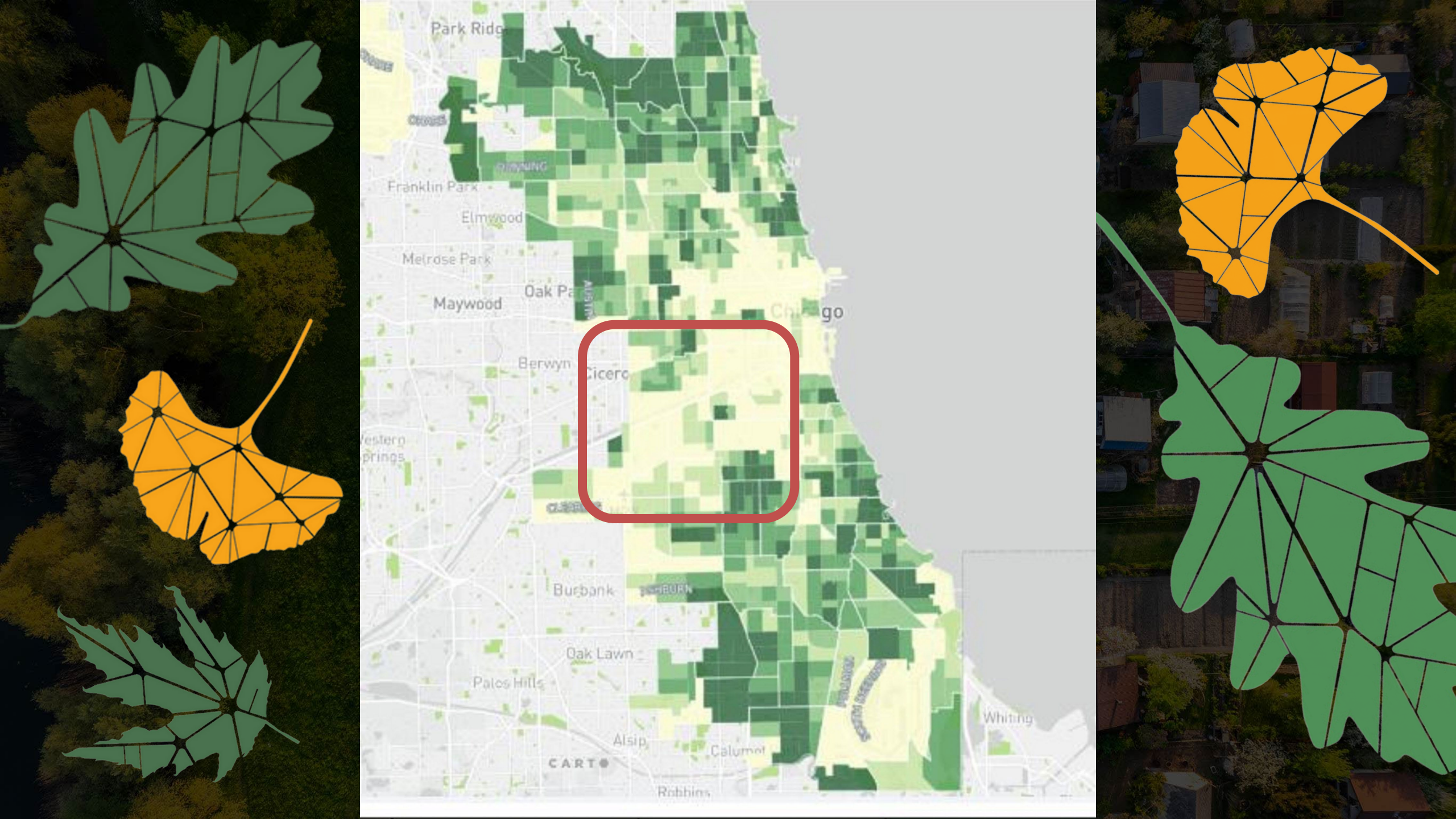
Overcoming Barriers to Community Tree Planting in Chicago, Illinois, USA

Presented by

Tom Ebeling

Community Arborist

Openlands


Park Ridge
Franklin Park
Elmwood
Melrose Park
Maywood
Oak Park
Berwyn
Cicero
Western Springs
Burbank
Oak Lawn
Palos Hills
Alsip
Calumet
Whiting
Robbins
CARTO

Openlands

Openlands protects the natural and open spaces of northeastern Illinois and the surrounding region to ensure cleaner air and water, protect natural habitats and wildlife, and help balance and enrich our lives.

Openlands Forestry: Overcoming Barriers through Partnerships

Over 9,000 trees to date

Over 1,900 TreeKeepers trained

Greater than 90% success rate for trees

Barriers to Tree Planting

- Access to land, tools, trees or time
- Expertise
- Maintenance
- City ordinances
- Language

Barriers: Access to land, tools, trees or expertise; prohibitive city ordinances

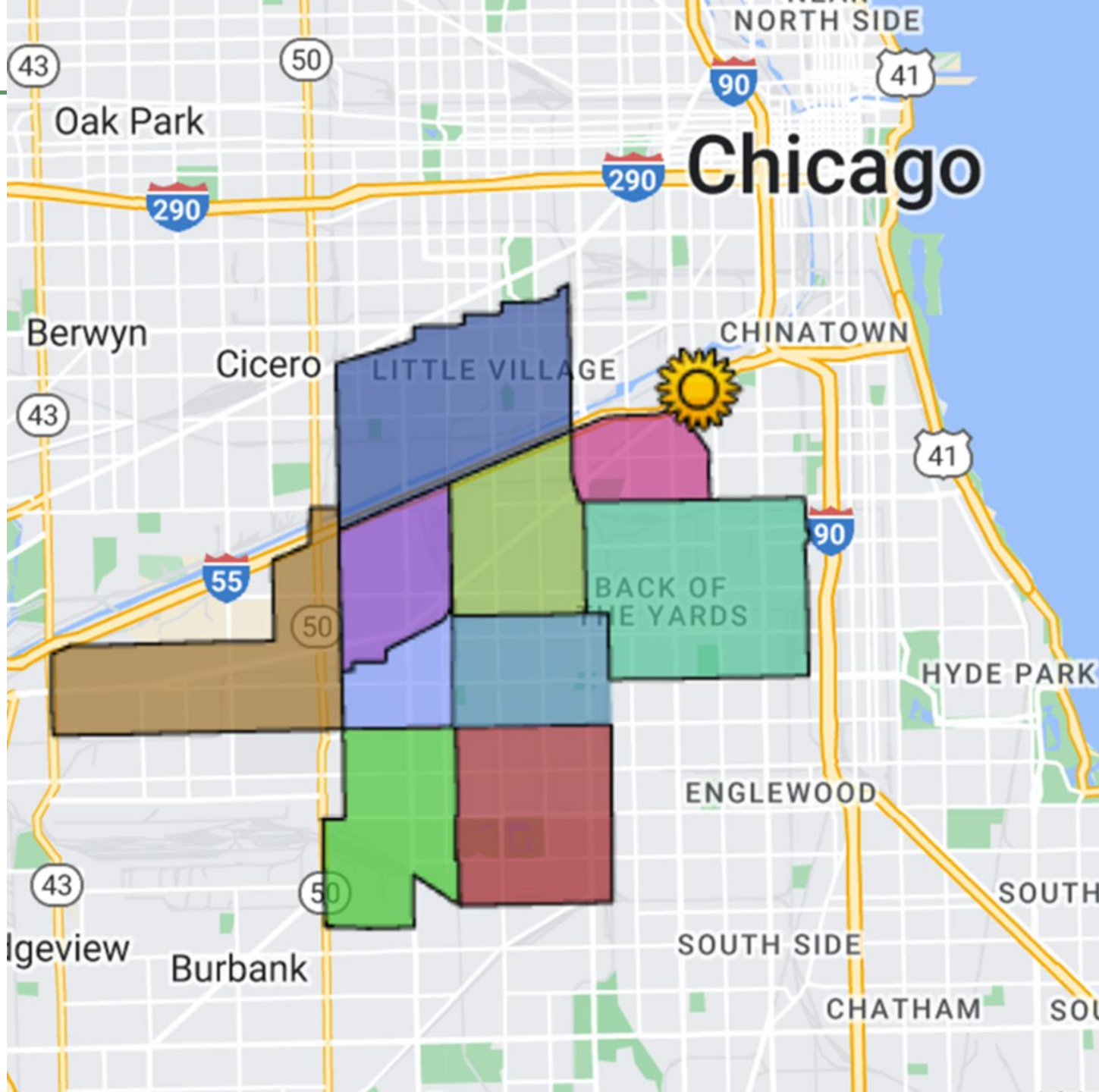
Addressing barriers: Openlands TreePlanters Grant

Barriers: Maintenance; expertise
Addressing barriers: Openlands TreeKeepers;
Arborist Registered Apprentices

openlands

Barriers: Language, lack of free time, maintenance ability

Addressing barriers: Southwest Side priority area, Spanish TreeKeepers, stipends, building staff capacity



Emerald Tree Care
openlands
Coleman

conserving nature for life

Plantación de árboles

¿DESEA PLANTAR GRATUITAMENTE UN ÁRBOL EN SU ARCÉN?

¡Deja que Openlands sepa que quieres árboles en su barrio!

Utilice el siguiente código QR para solicitar un árbol (o árboles) para su acera, y le pondremos en contacto con alguien que esté organizando una plantación de árboles en su comunidad. Se le pedirá que cuide del árbol durante 3 años, principalmente regándolo una vez a la semana durante la temporada de crecimiento.

Inquilinos pueden someter aplicaciones si lo comunican con los dueños de la propriedad.

¿Preguntas?

Nuestros expertos están a su disposición.

Tom Ebeling TEbeling@openlands.org

Overcoming the Barriers: Partnerships, Training, Capacity Building

Navigating bureaucracy, lending legitimacy and expertise

Leveraging corporate and institutional partnerships for community vision

Training and empowering volunteers, developing the forestry workforce

Stipends, accessible materials and programming

Thank you

Tom Ebeling | Openlands
tebeling@ openlands.org

openlands
conserving nature for life

Food and Agriculture Organization of the United Nations
Arbor Day Foundation
POLITECNICO MILANO 1863
CICEF
ISA
Smithsonian

CEUs

Session 2.4: The Divide: Promoting equal distribution of green spaces and environmental services

PP-23-3565

World Forum on Urban Forests