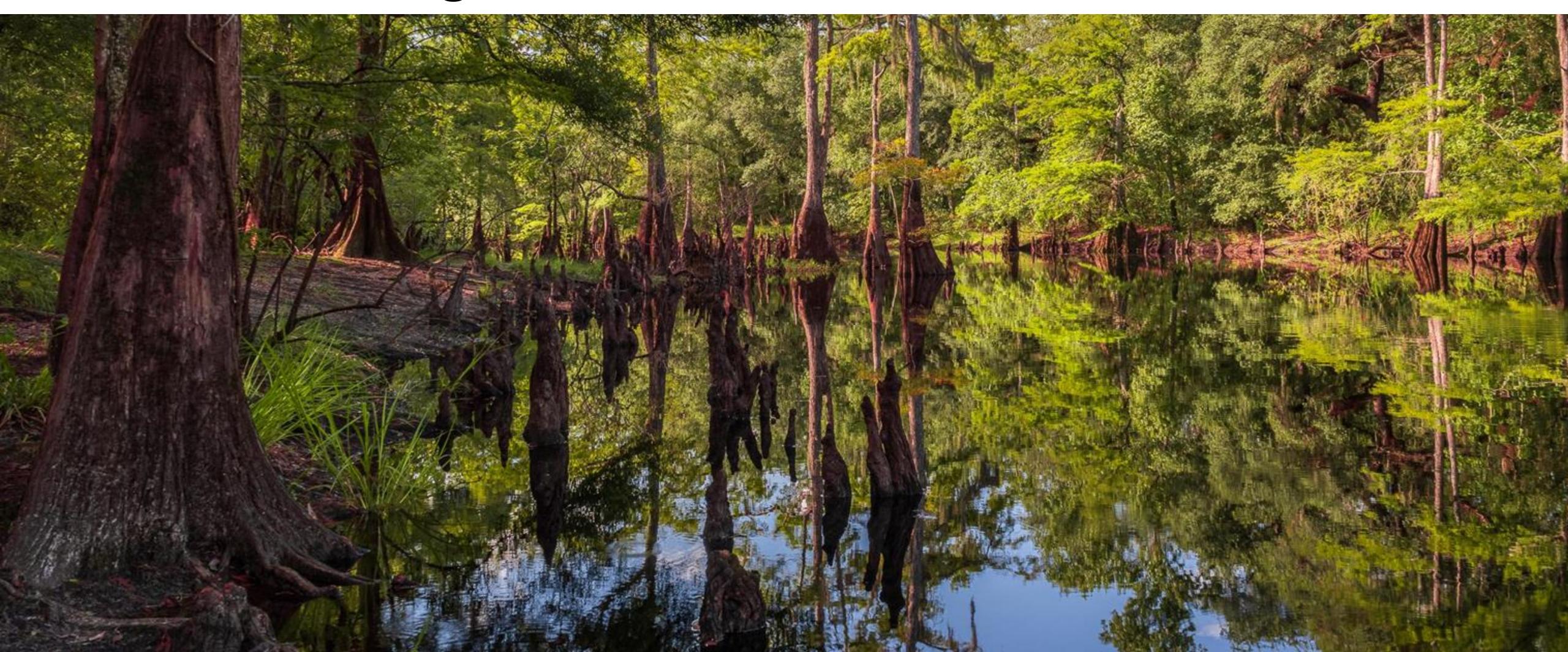
## FROM THE MACRO TO THE MICRO:

Connecting the Corridor with Collaborative Tools



## **Conservation Strategies**

- 1. City-County Partnership Approach to Environmental Connectivity
- 2. Transfer of Development Rights Programs
- 3. Rural Protection Areas
- 4. Conservation Subdivisions
- 5. Creation of a Blueway
- 6. Fee Simple Acquisition and Conservation Easements
- \*Recognition of the FWC



## Collaborative & Strategic Approach

- JPA Initiative (Sept 2022)
  - Across 14 municipalities
  - East Central Florida Regional Planning Council
  - 1000 Friends of Florida
  - UCF & Stetson University
  - County & City Staff
- Strong Towns Initiative
- Rural Conservation Subdivision Design Standards



# Highest. Marxan Output V2 Lake County, Florida

Natural Lands Inventory and Planning Strategies Review in Support of Resilient Green Space Conservation in Lake County, Florida

The Marxan model map of Lake County ranks undeveloped lands for potential inclusion within a resilient open space network.

Dark Pink=Highest Priority
Light Pink=Lowest Priority



This case is reserved to be used the greating procures only and in roll to be compared on a larger recoverable to the compared on the compared

012345

## Joint Planning Area Visioning

Looking at a city and its surroundings to plan for future growth, development and annexations to ensure growth is aligned with the city's and county's vision for the future.



## Strategic Plan

Adopted June 21, 2022

#### Mission

The City of Groveland is an ecosystem intentionally connecting safety, service, and innovation to support a vibrant welcoming community with natural charm.

#### Vision

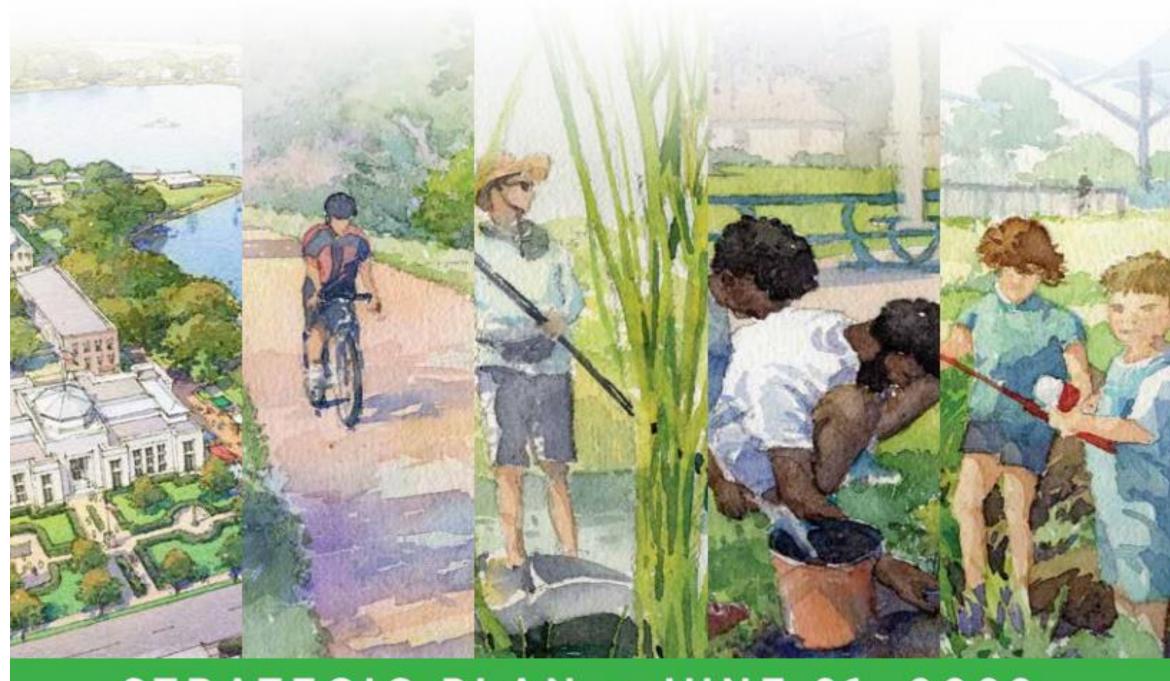
Groveland is a collection of towns, villages, and hamlets interweaving a diversity of people into an eco-agrarian landscape.

#### **Values**

Intentionality, Connectivity, Vitality, Knowledge, Heart



City with Natural Charm

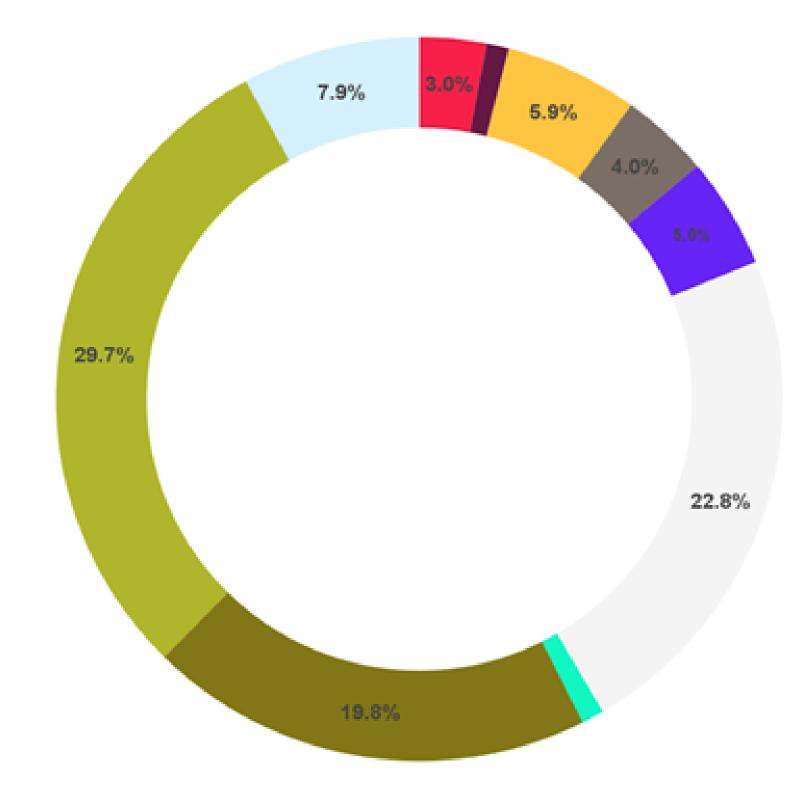


STRATEGIC PLAN • JUNE 21, 2022

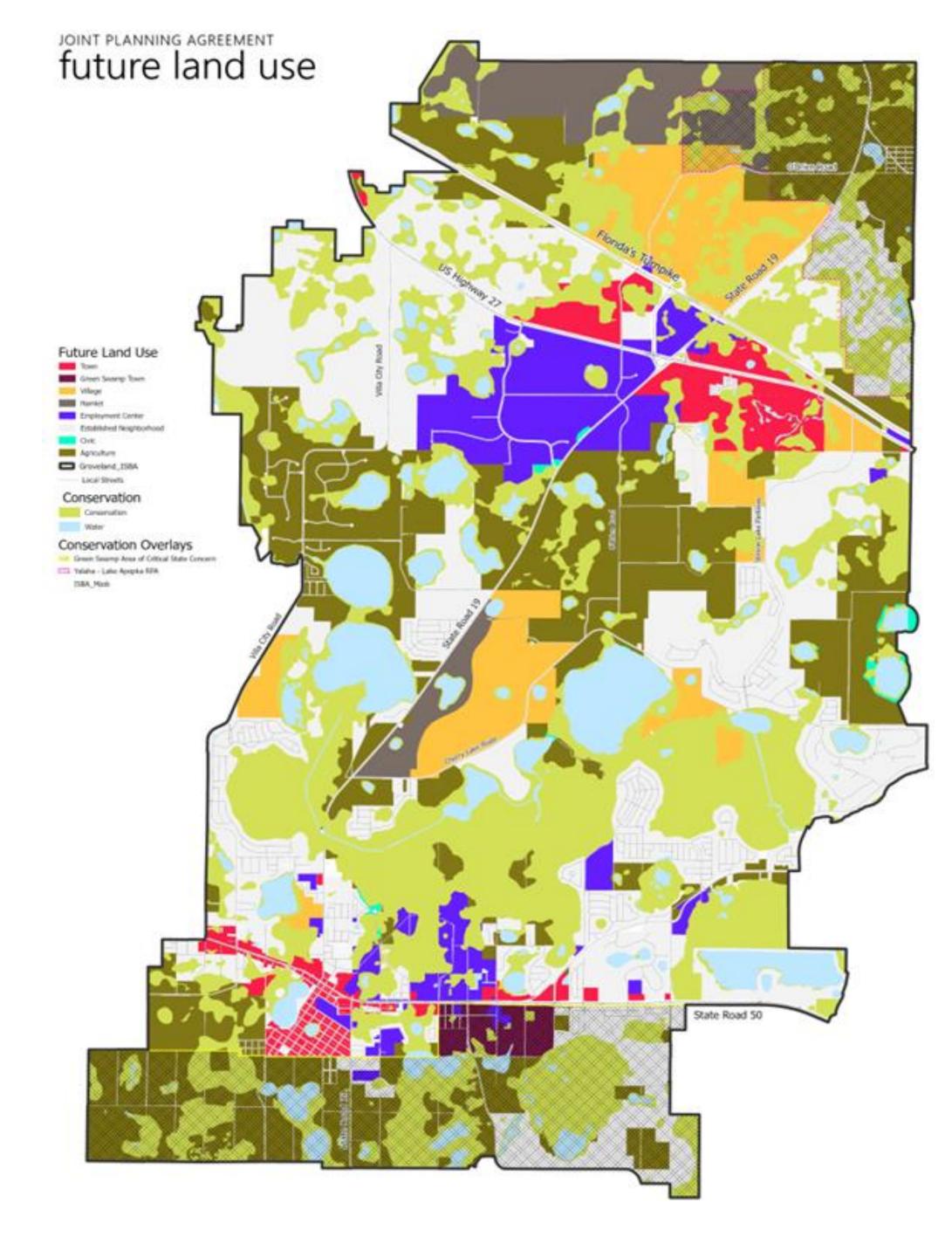
## JPA Map

#### **Future Land Use Distribution**

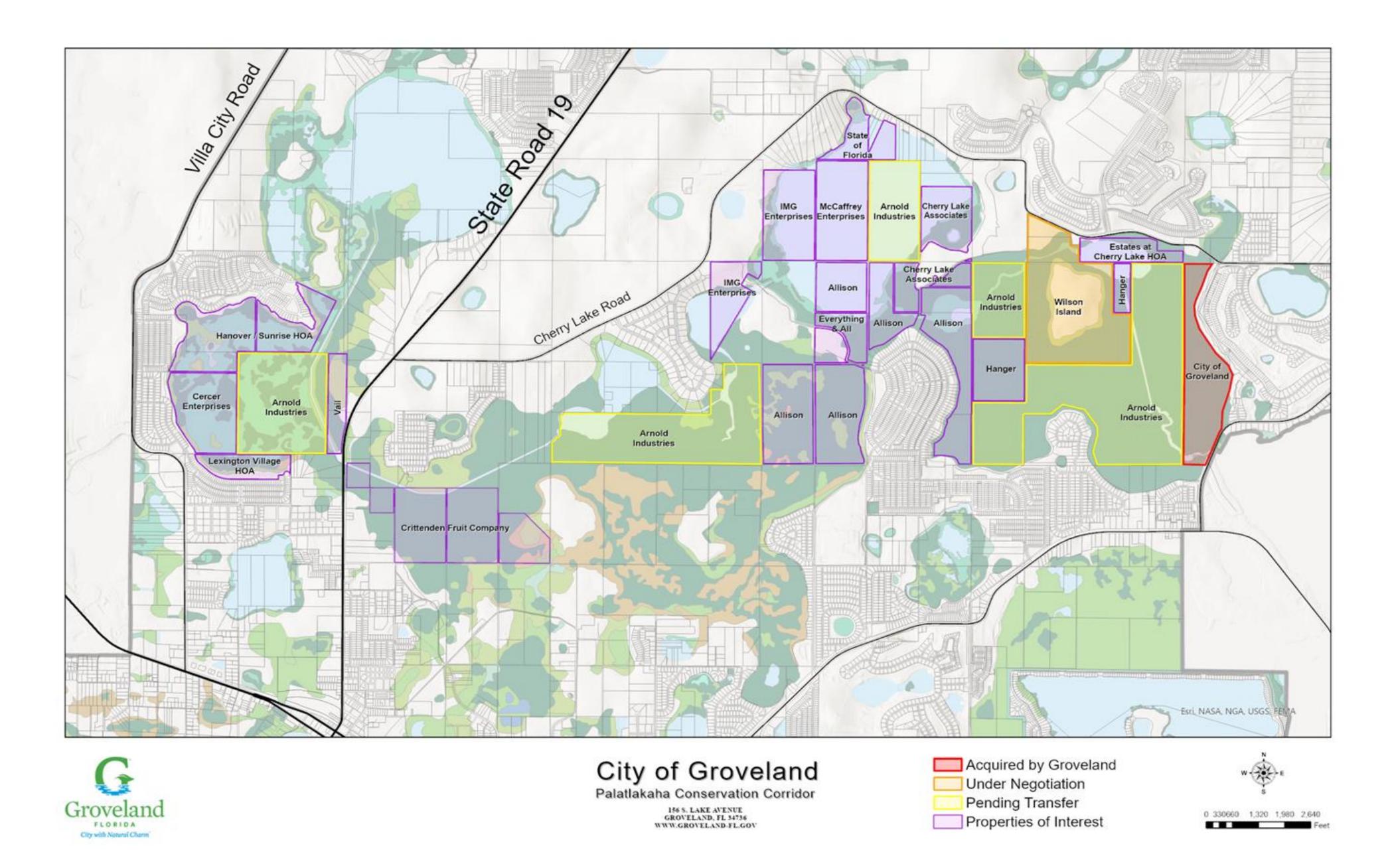
- Town
- Green Swamp Town
- Village
- Hamlet
- Employment Center
- Established Neighborhood
- Civic
- Agriculture
- Conservation
- Water







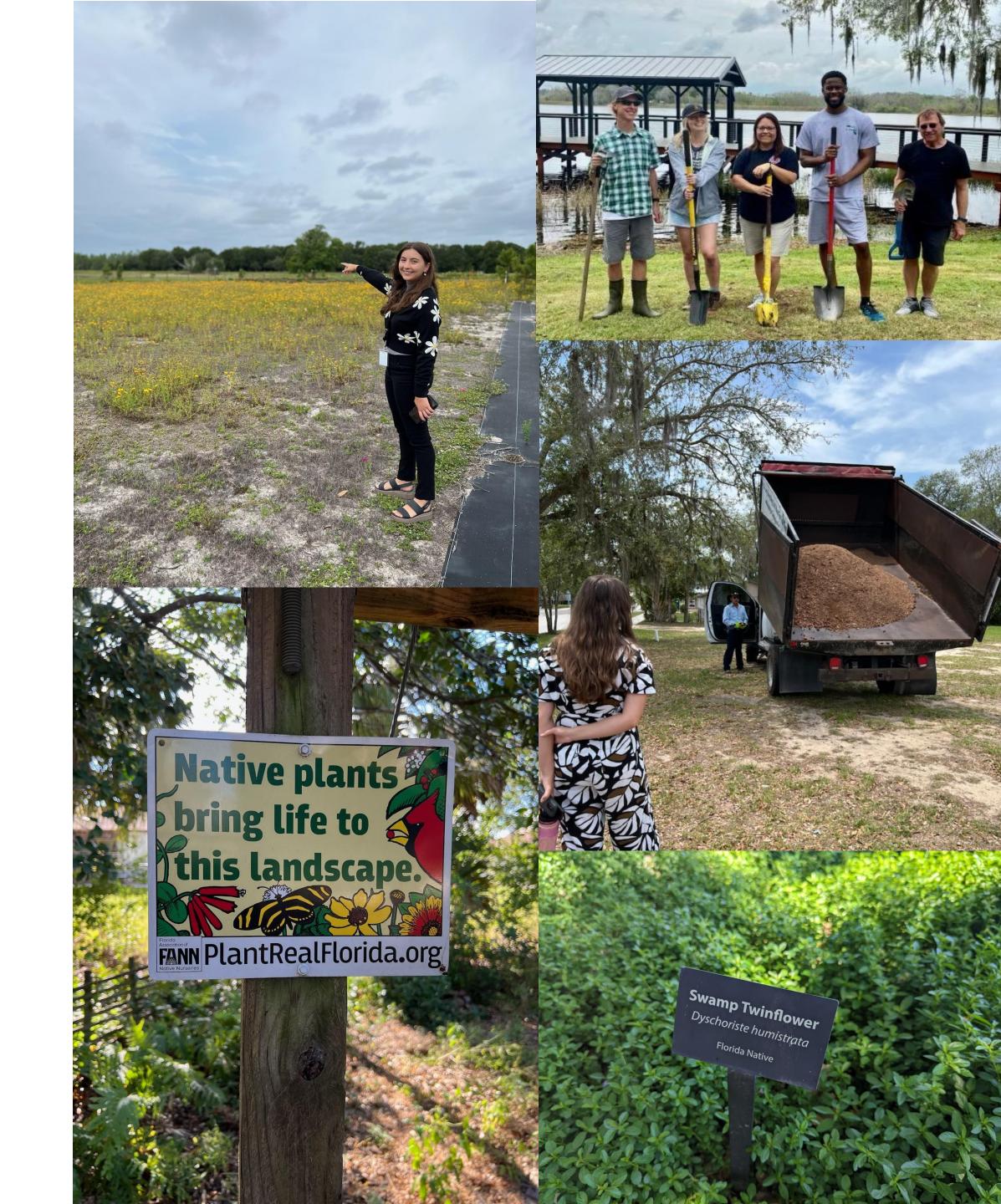
## **Conservation Efforts**



## **Current Projects**

- Wildflower Medians
- SR 50 Splitter Island
- Urban Forestry Program
- Landscape Code Update:
   Conservation Landscapes
- Historic Oak Tree Union Colored
   Cemetery of Taylorville Restoration





## **Agrarian Code**

























#### Agrarian Transect Code Summary DRAFT 3/21/2025 ZONING DISTRICTS Conservation Agriculture Village Edge Town Edge Town Center Town Core Core Hamlet Edge Village Center Village Core Single Family Limited Hamlet Center Hamlet Core Single Family Res. Moderate Density Res. Low Density Res. Uses Along the Transect GS Rurel GS Law Density **GARDENS** Community Gerden Front Yard Gerden Backyard Garden Green Roof Balcony Garden Window Gerden FARMS & FOODSCAPES Hand-tended Farm/Orchard Tractor Farm Foregeable Wildemess ACCESSORY STRUCTURES Aqueponics NC: Hydraponics Coop. Aplety Rain Harvesting Compost Greenhouse Ferntstand Livestock

Key: P Permitted 8 Spesial Exception NC Neighborhood Consent



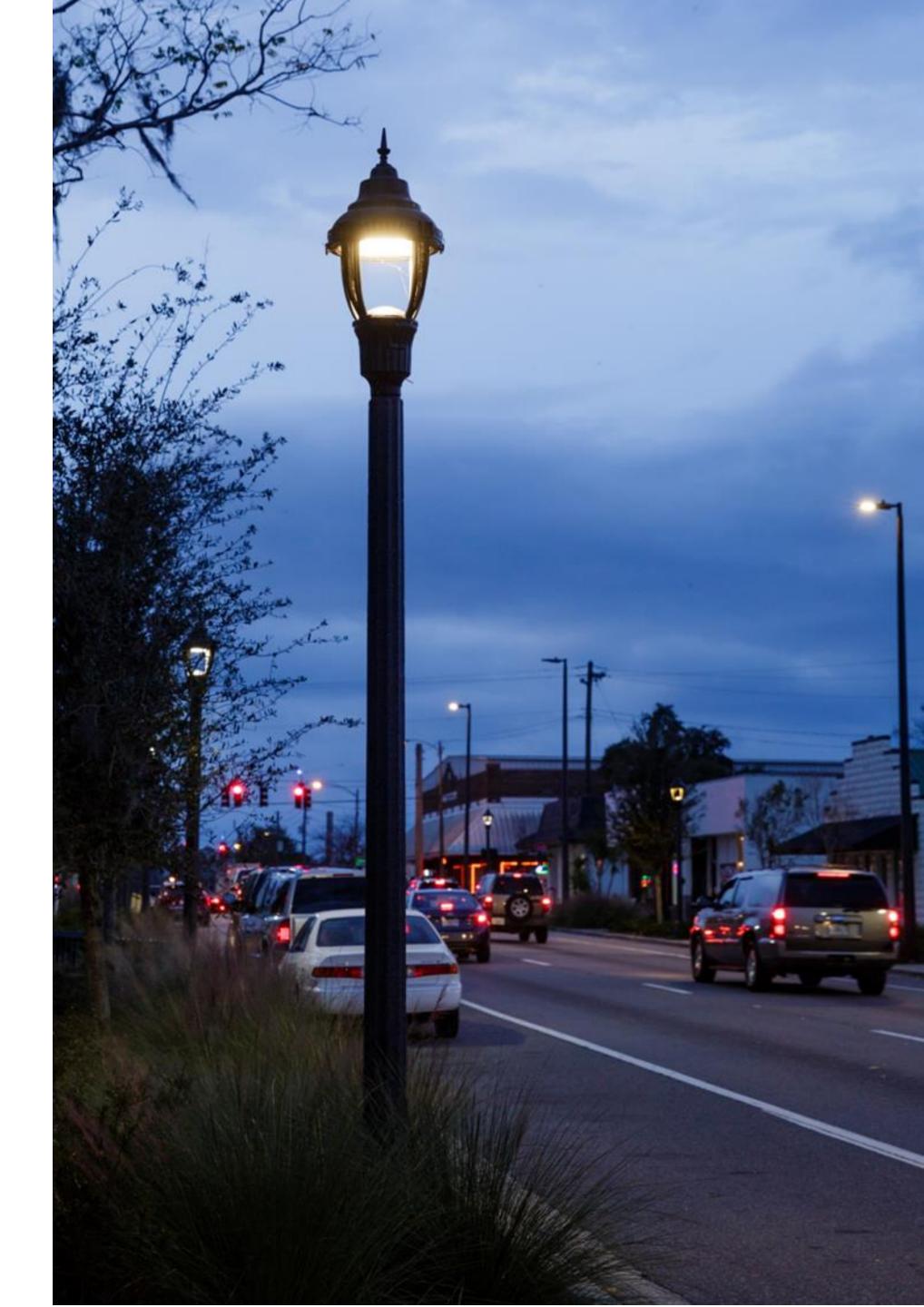
## **Dark Sky Certified**

Dark Sky Certification - August 2022

Dark Sky Lighting Standards

Annual Star Party - CherryLake Tree Farm

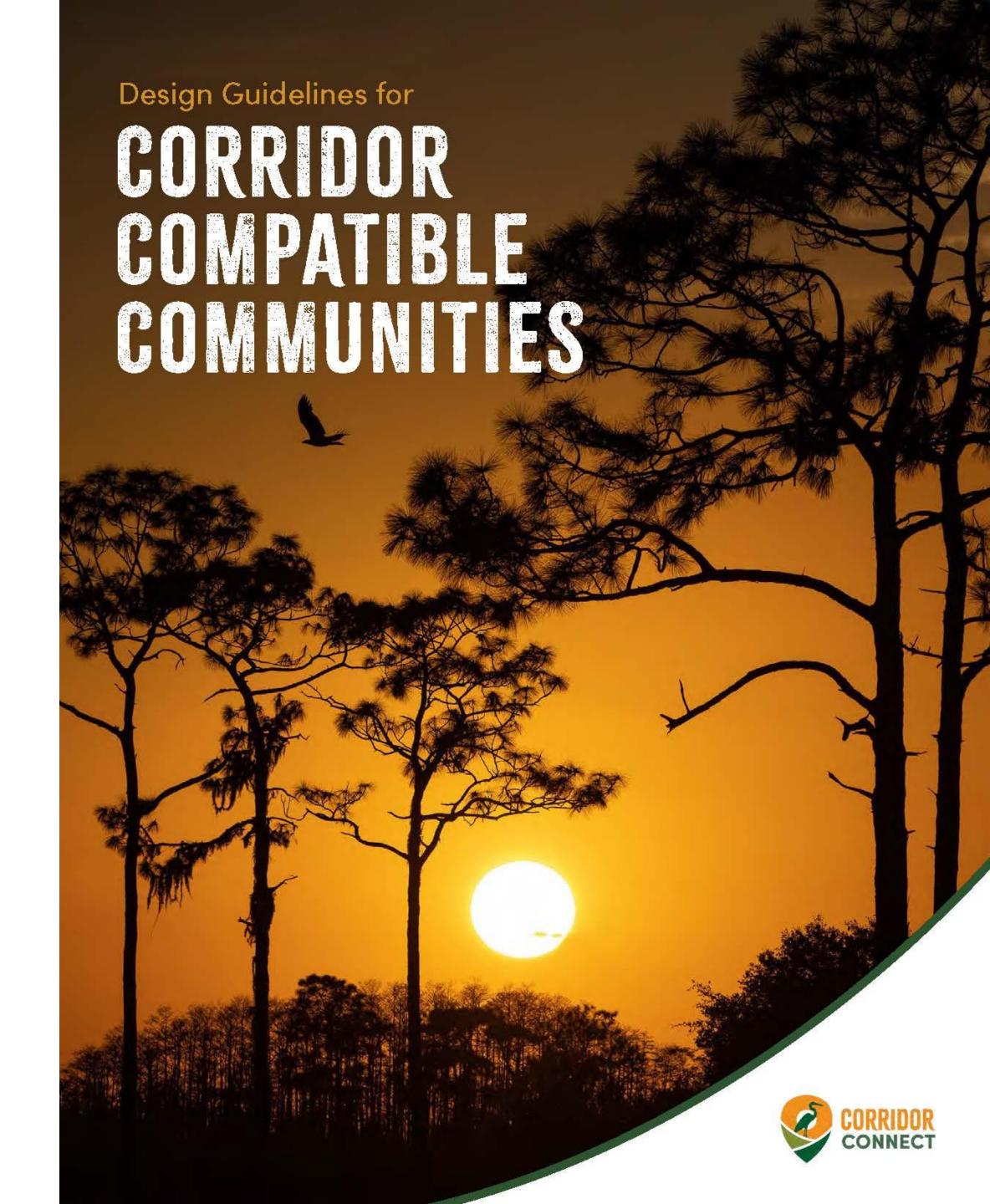






## FWC Corridor Compatible Communities (CCC) Design Guidelines

- Category 1: Site Planning and Design
- Category 2: Reducing Impacts from Infrastructure
- Category 3 Biodiversity and Ecological Improvements
- Category 4 Community Access, Culture and Education

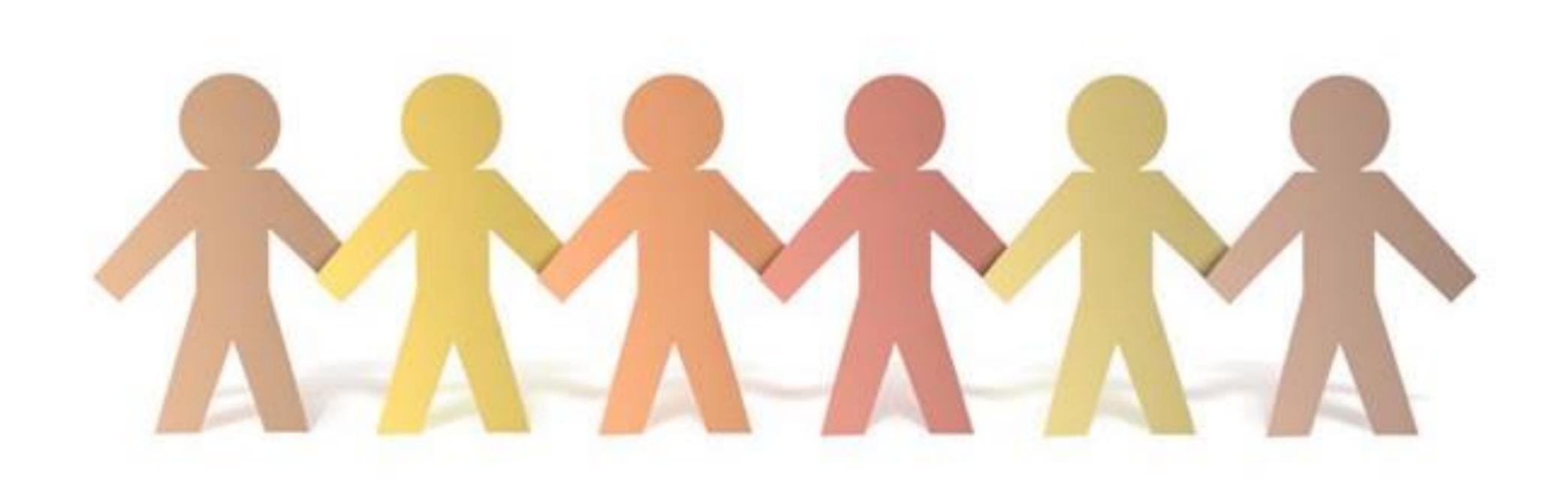


## City of Jacksonville Resiliency



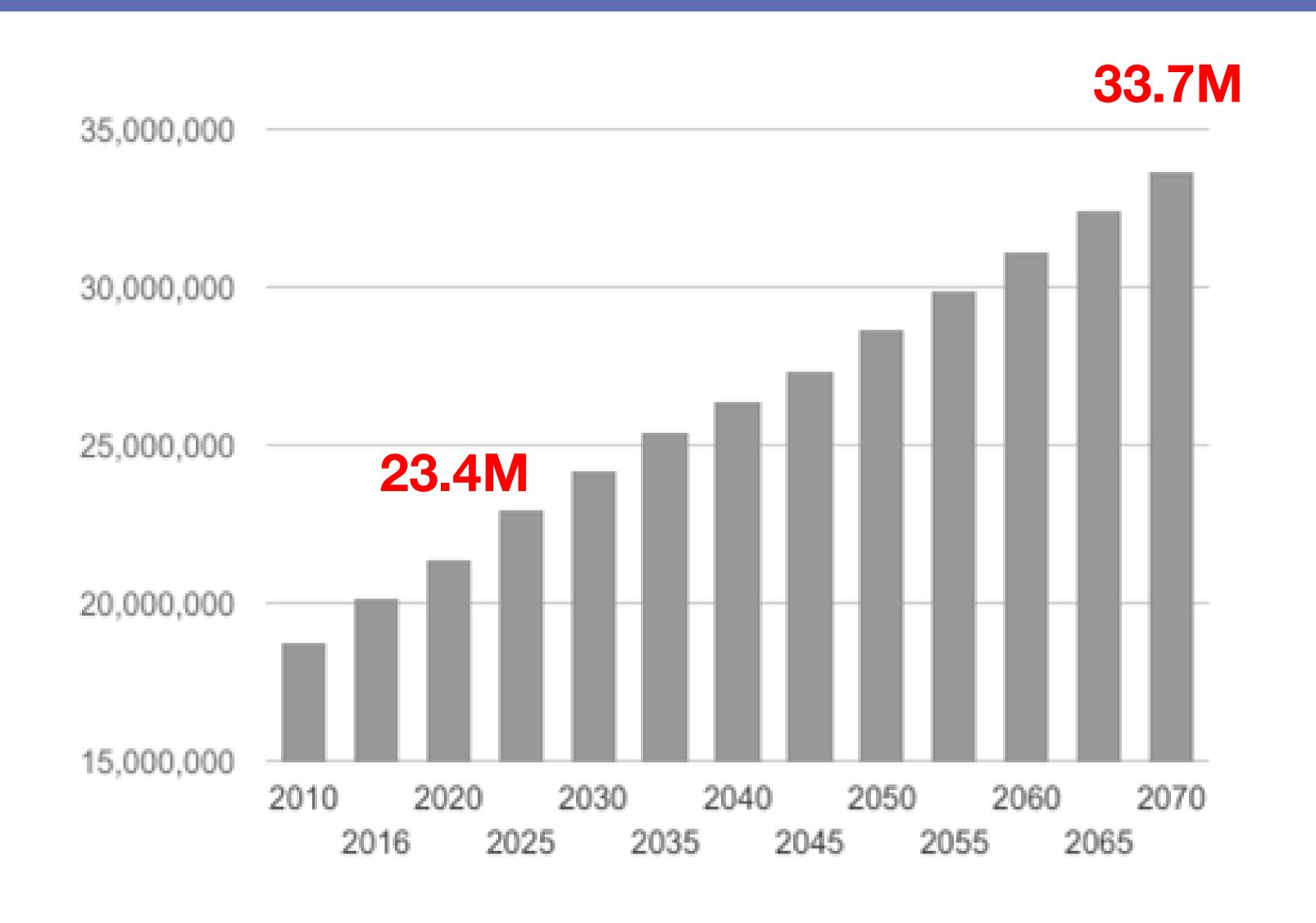


## CHAIN OF CUSTODY



COLLABORATION

## BEBR: FLORIDA POPULATION FORECAST



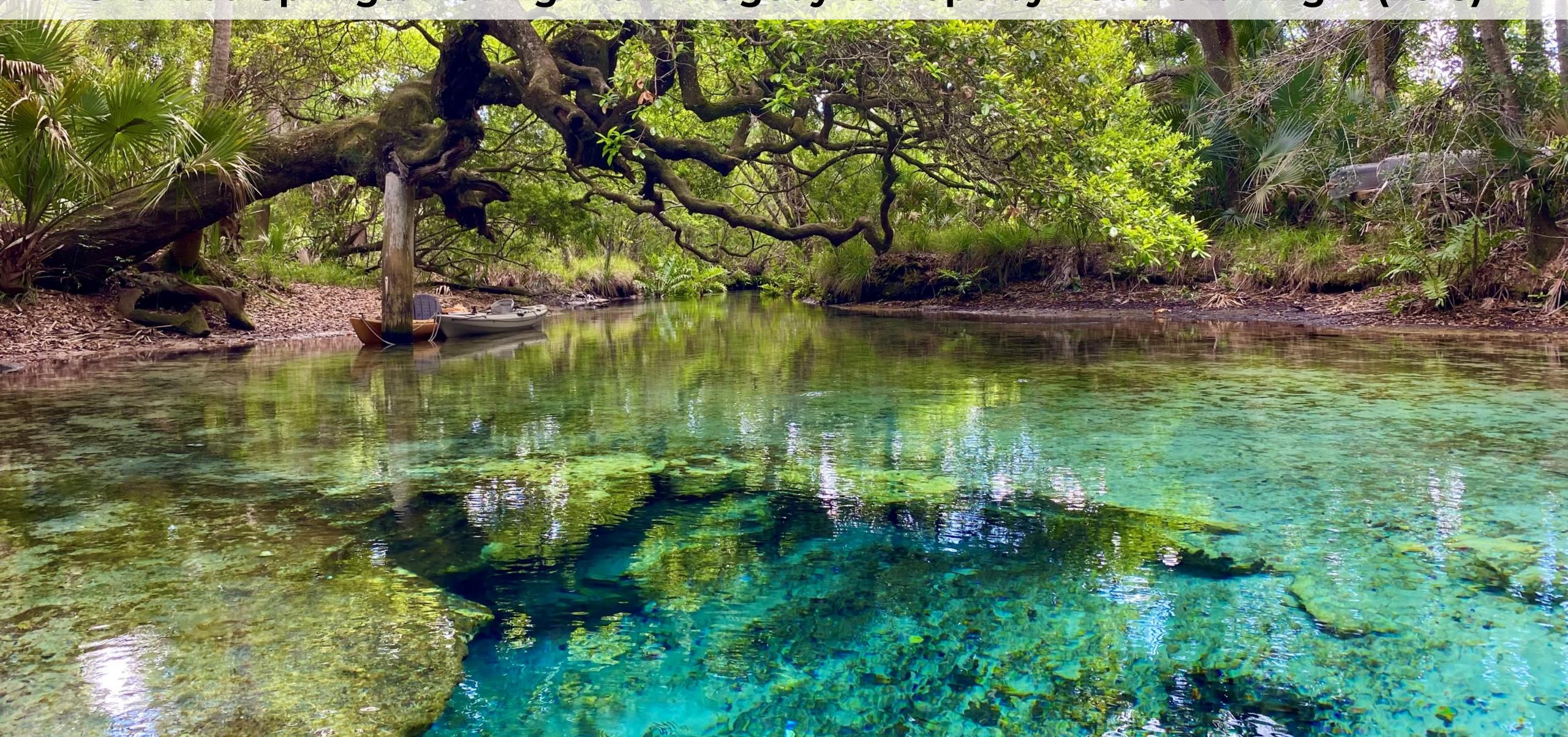


FLORIDA IS ALREADY EXPERIENCING WATER SUPPLY SHORTAGES

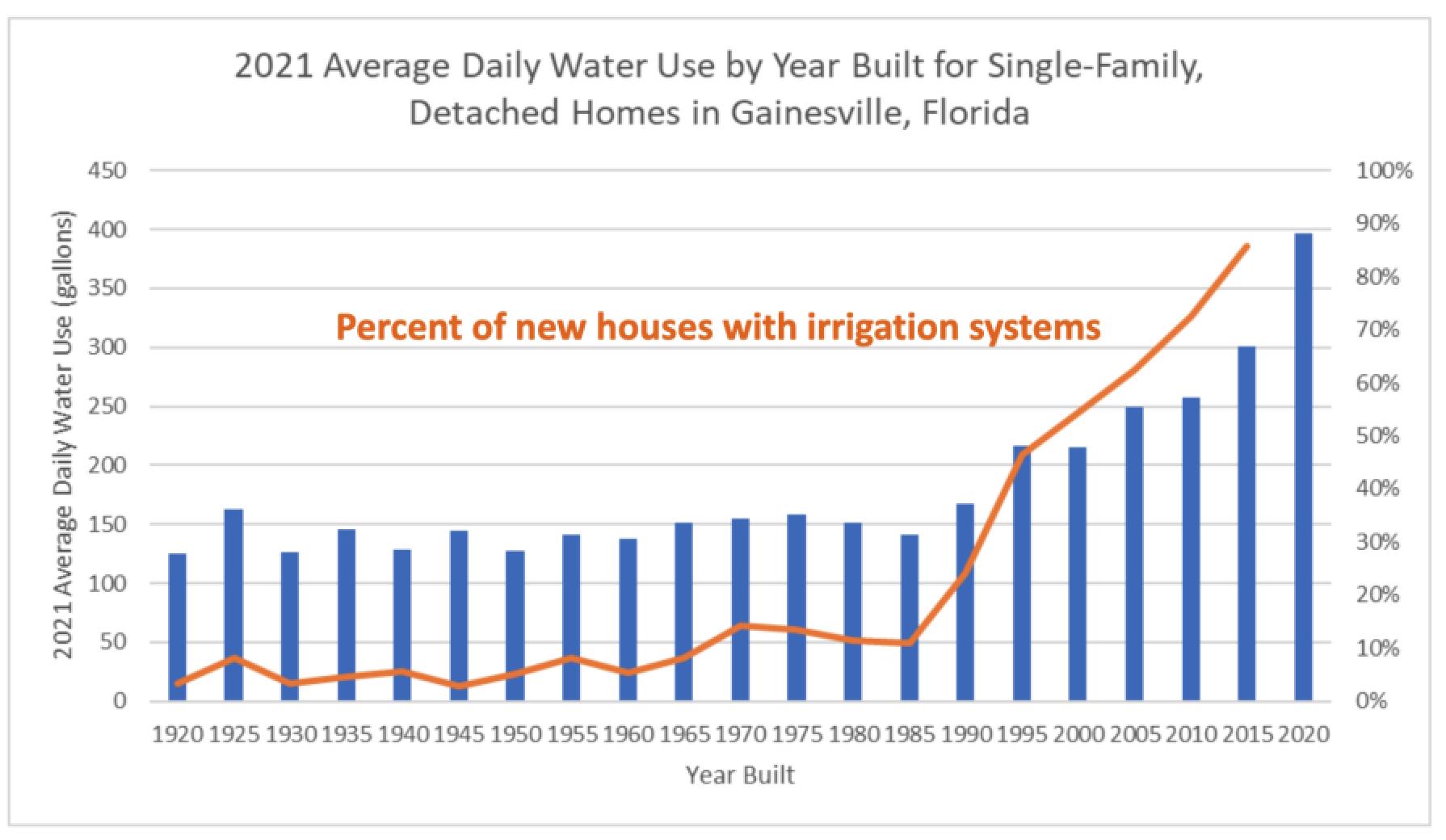
**Source: Water 2070** 

"Any decline in aquifer levels translates into reduced spring flows. The number of Florida springs that have decreased or ceased flows increases every year"

Silenced Springs: Moving From Tragedy to Hope by Robert L. Knight (2015)



### IRRIGATION SYSTEMS DRIVE UP WATER USE



Source: UF IFAS Program for Resource Efficient Communities









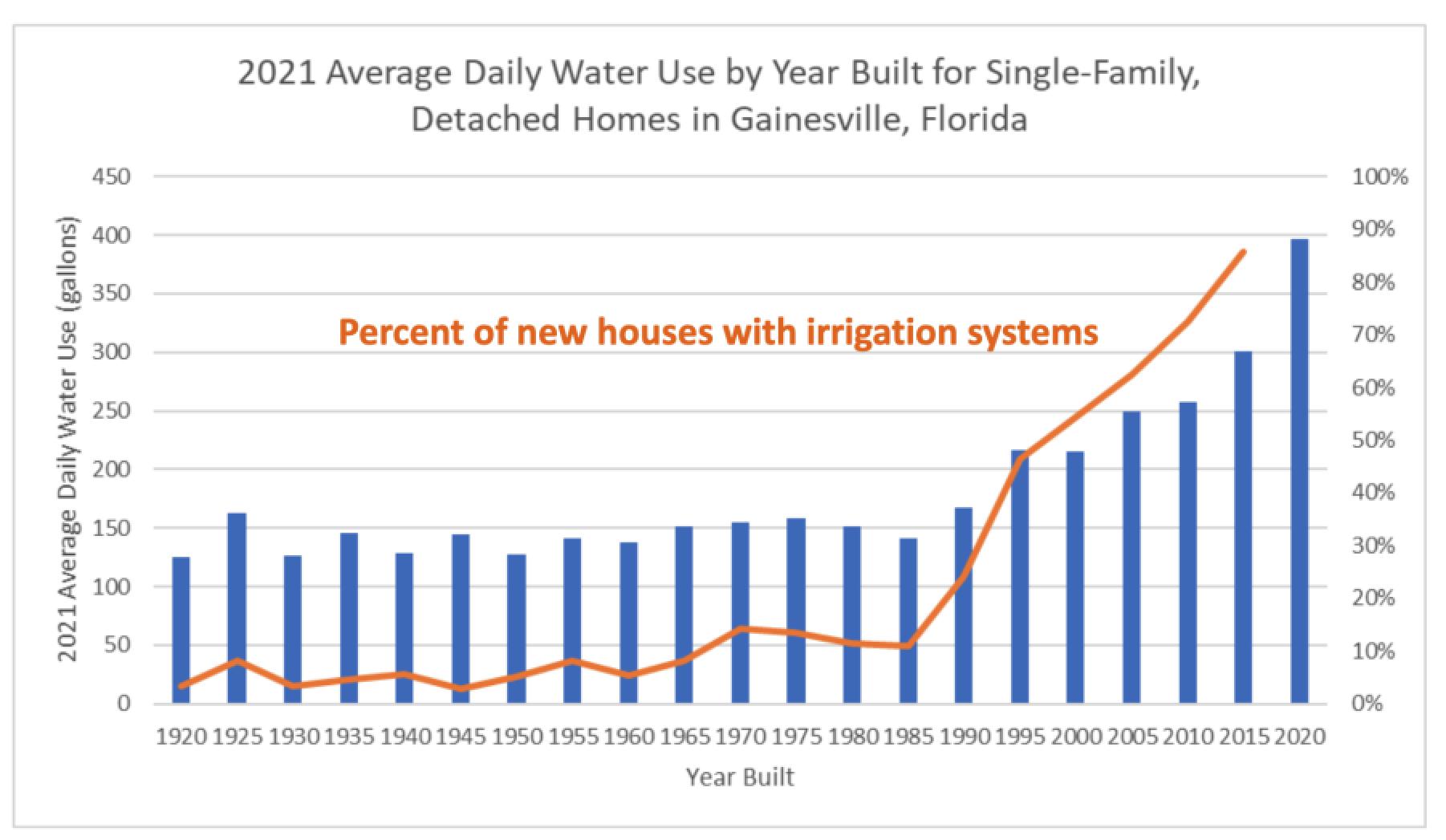


For more information, visit: 1000friendsofflorida.org/florida2070/





## IRRIGATION SYSTEMS DRIVE UP WATER USE



Source: UF IFAS Program for Resource Efficient Communities





# BIODIVERSITY: A UNIFYING THEME

- Ecosystems and biodiversity are declining more rapidly than ever
- Can't reach sustainability goals without sustaining biodiversity
- Need local to global efforts
- Landscape planning and design can make a difference



Home Ab

About

Campaigns v

Goals v

Take Action

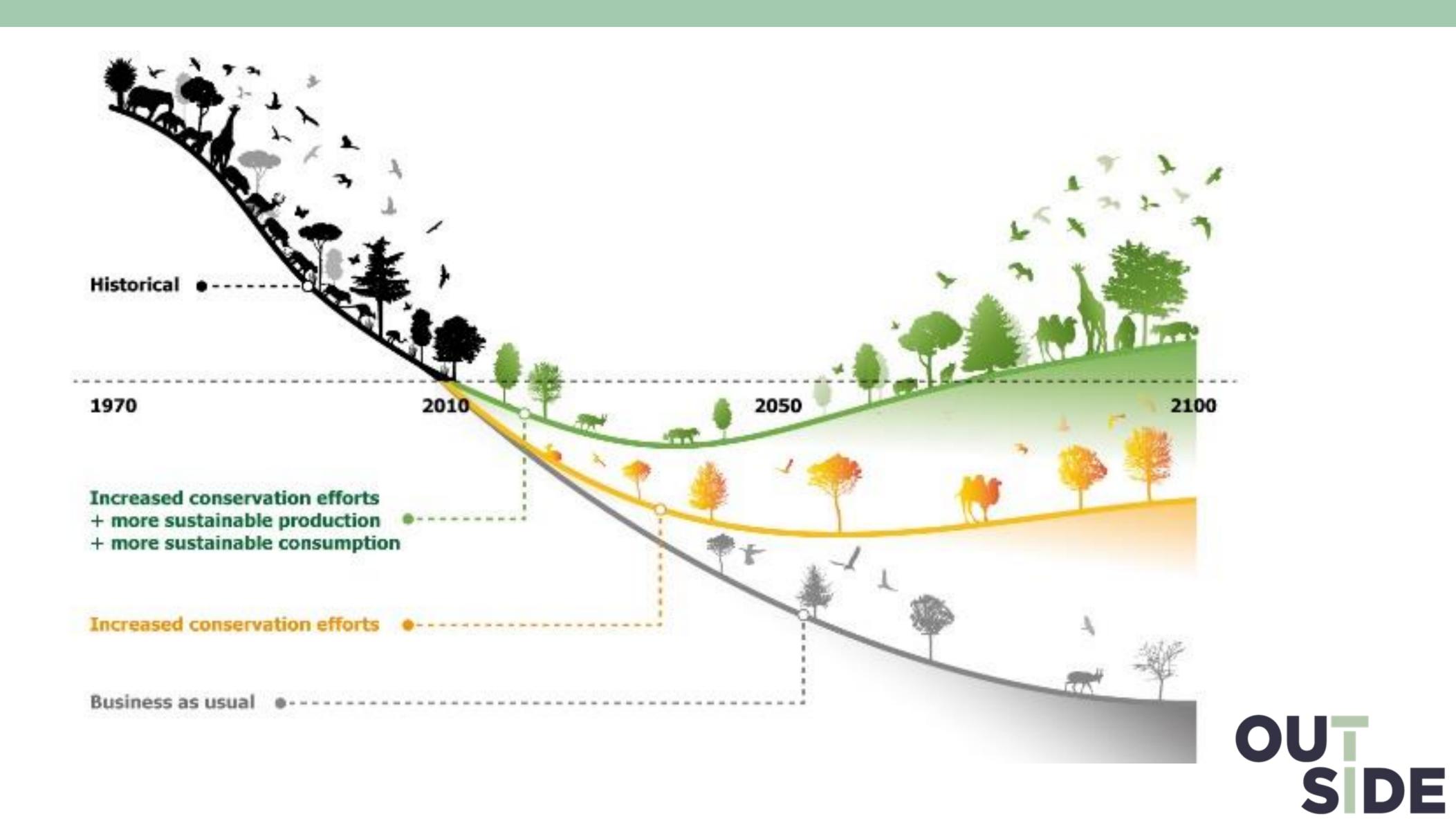
erships 🗸 News And N

Learn More v

UN Report: Nature's Dangerous Decline 'Unprecedented'; Species Extinction Rates 'Accelerating'



## **BIODIVERSITY LOSS**







## THE BIG 4

- Minimize/Eliminate Irrigation Beyond Establishment
- Minimize/Eliminate Mineral Fertilizer
   Use
- Minimize/Eliminate Pesticides
- Promote/Maximize Ecosystem
   Services





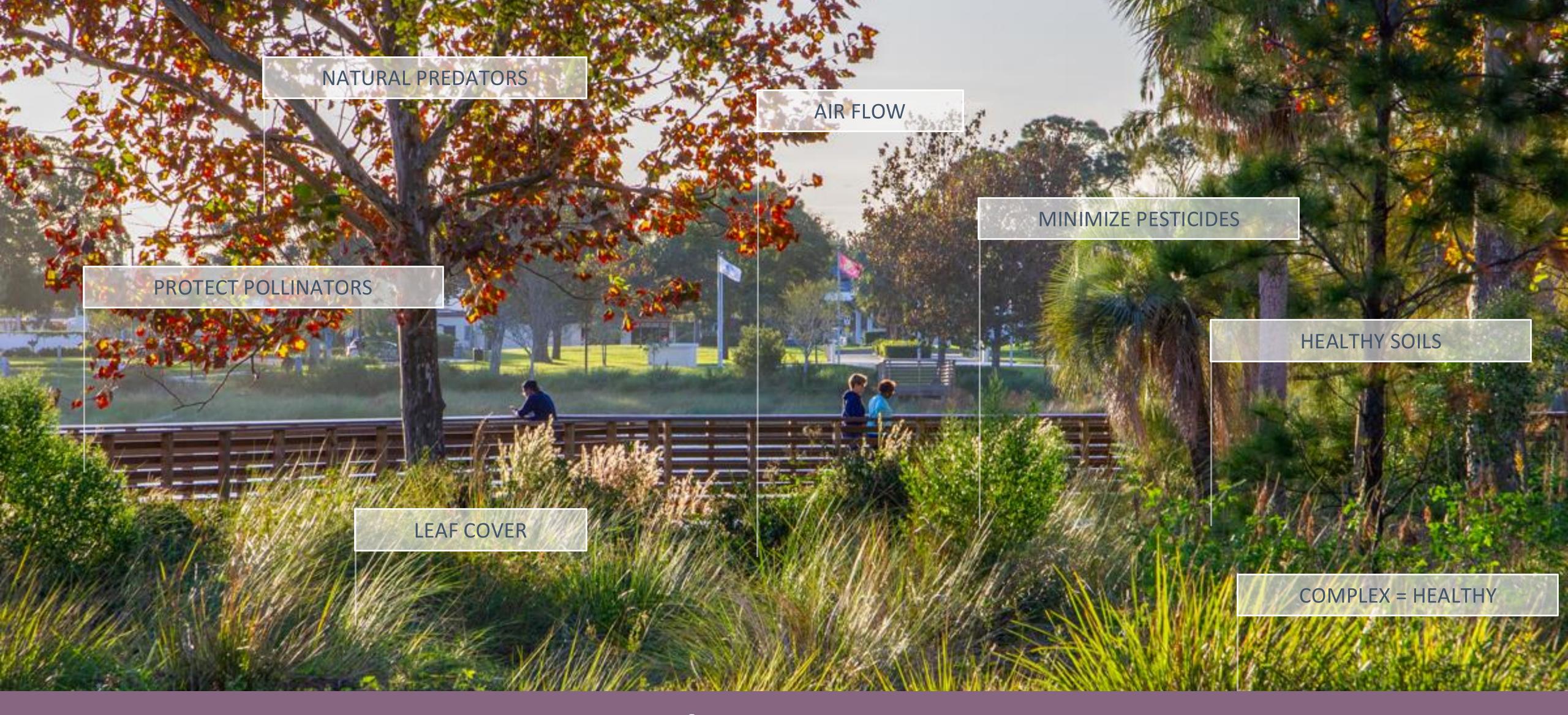
Minimize/Eliminate Irrigation Beyond Establishment



## Promote/Maximize Ecosystem Services



Minimize/Eliminate Mineral Fertilizer Use



Minimize/Eliminate Pesticides



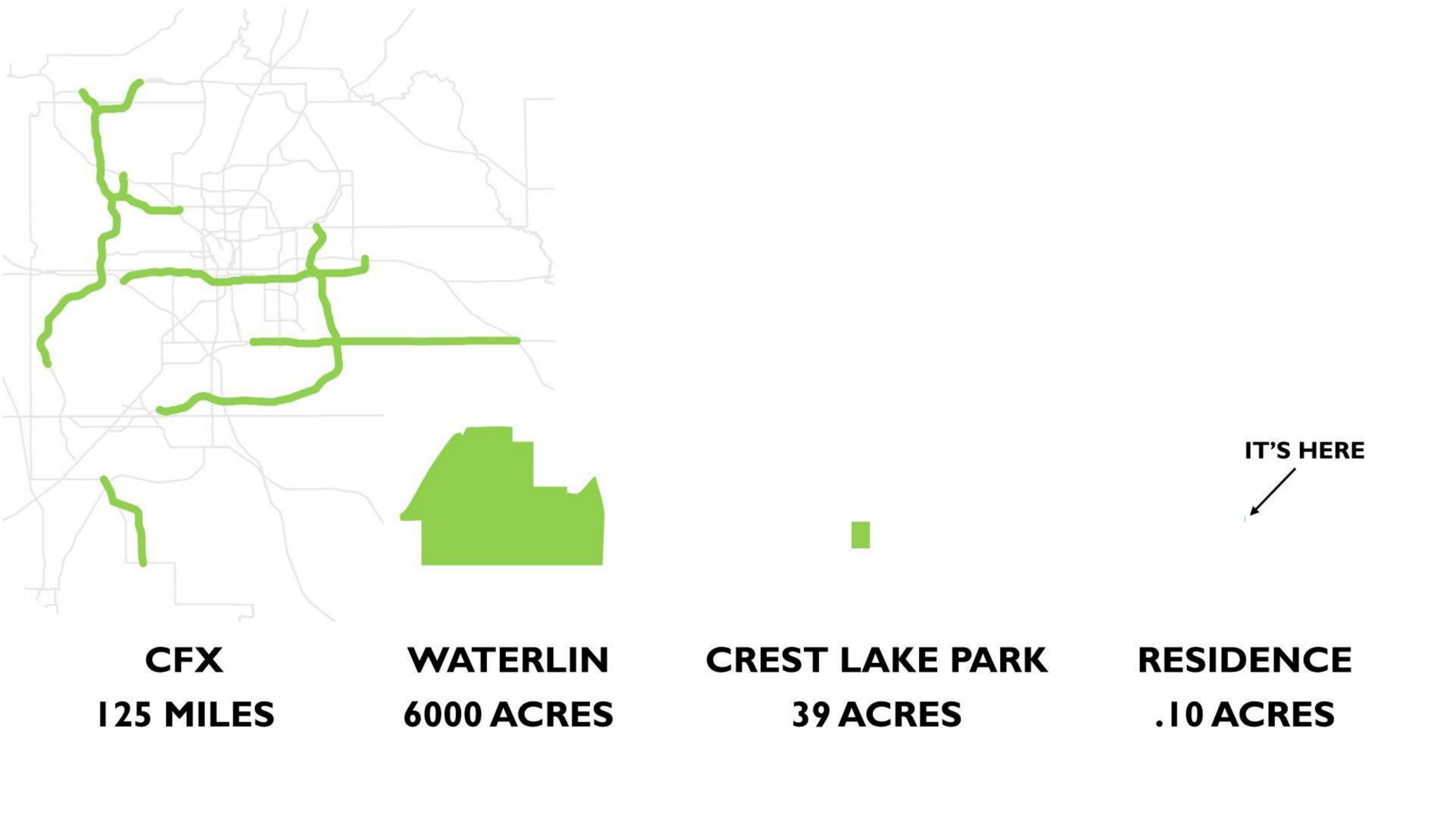
Tangible Results: TIME + COST SAVINGS











## **OVERALL DESIGN INTENSITY**

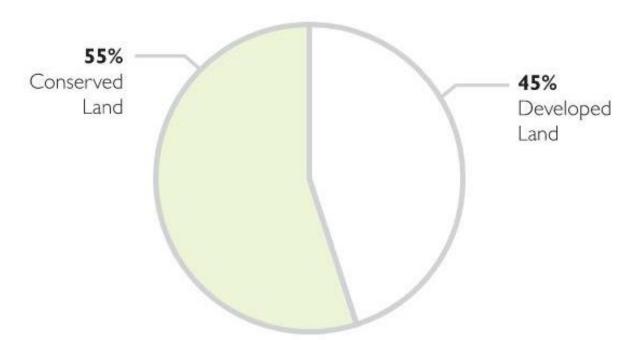


### **DEVELOPMENT IMPACT**

HGH

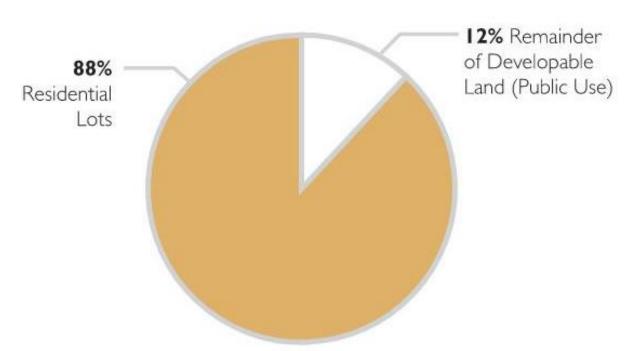
MEDIUM

WO



Around 45% of the site will be developed for residences, amenities, park spaces, and roadways with about 55% remaining undeveloped.

### RESIDENTIAL IMPACT



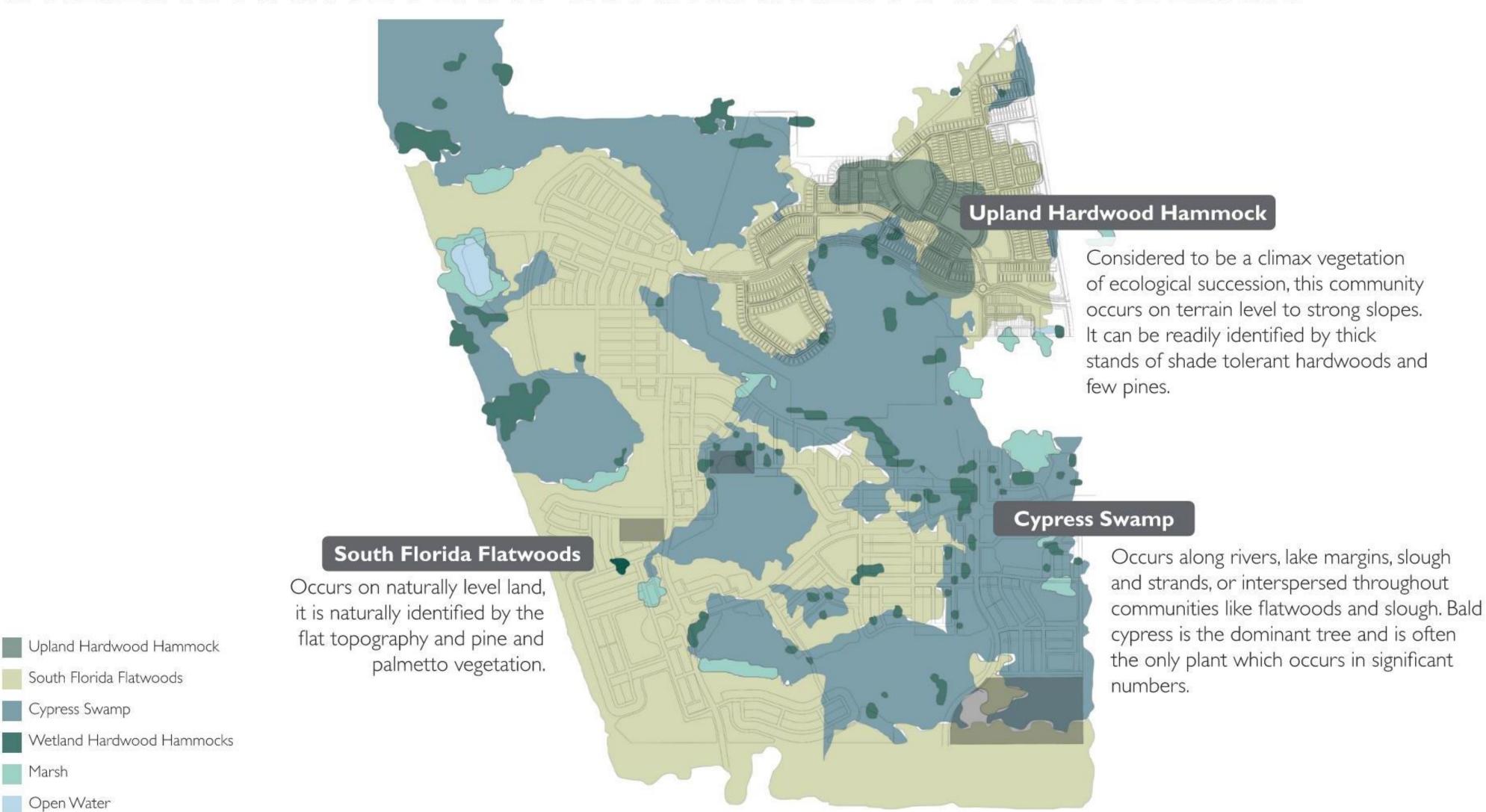
Around 88% of **developable land** on the site is comprised of residential lots.

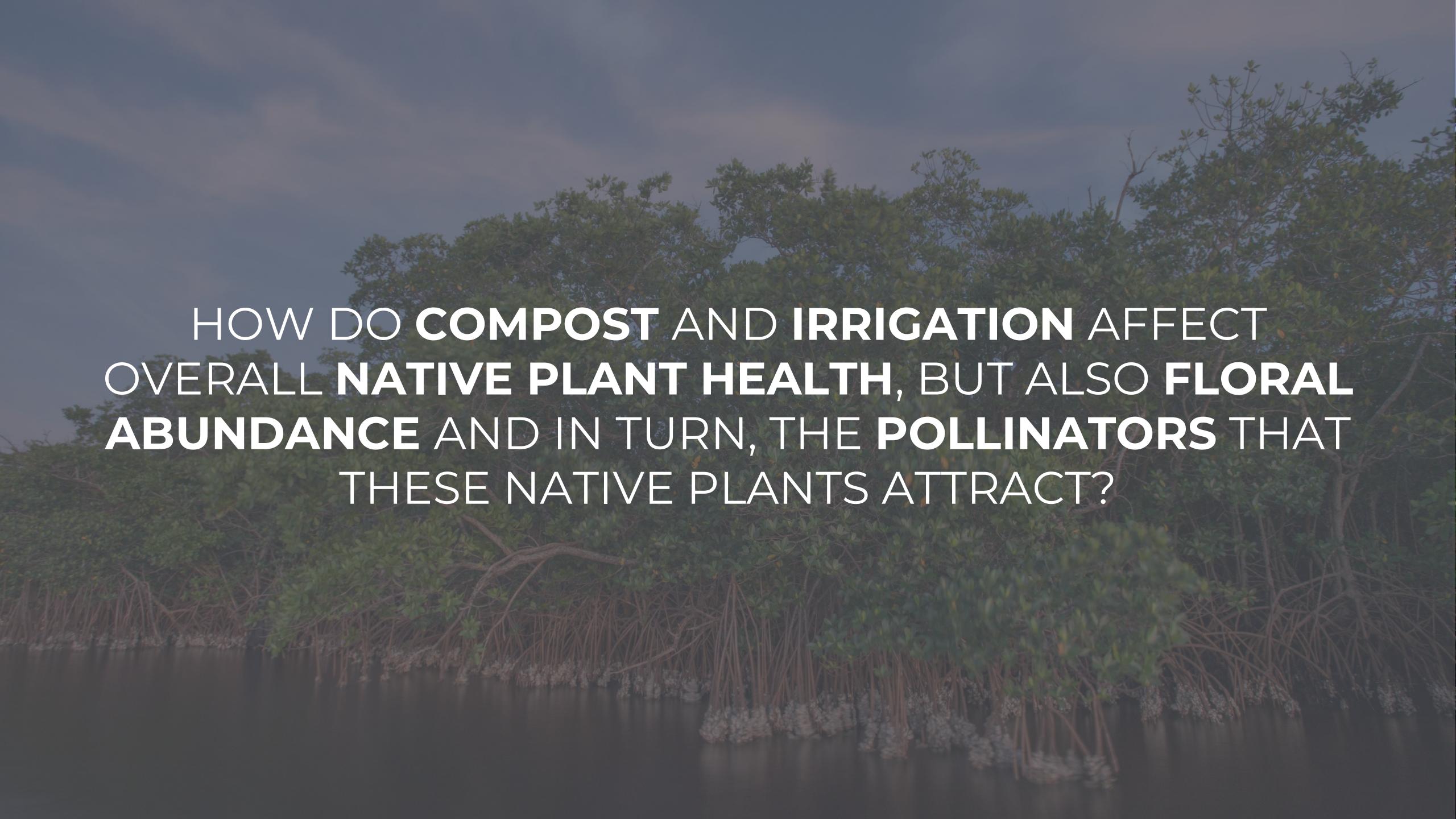
## UTILIZING NATIVE PLANT COMMUNITIES TO INFORM DESIGN

Cypress Swamp

Marsh

Open Water





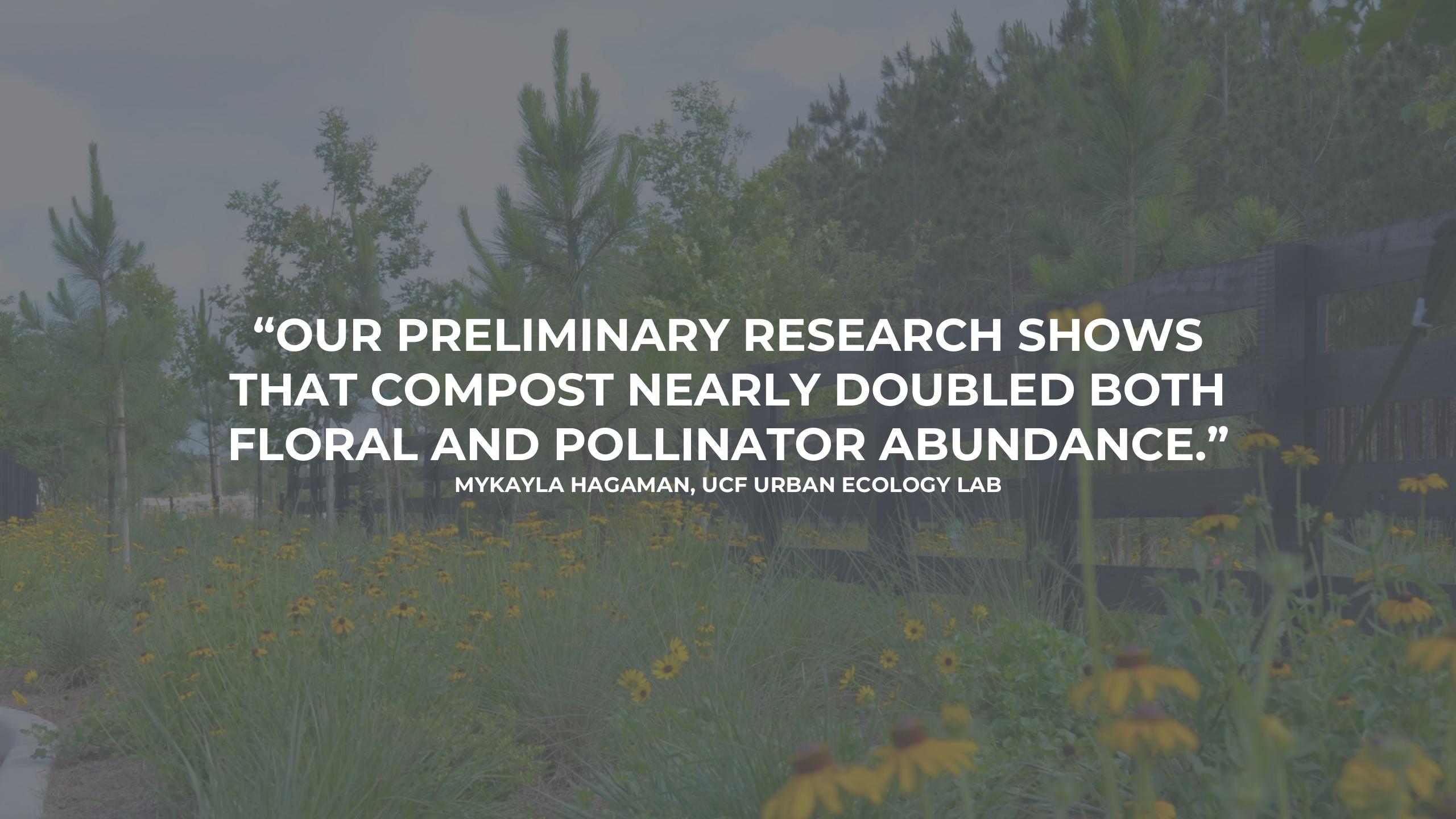






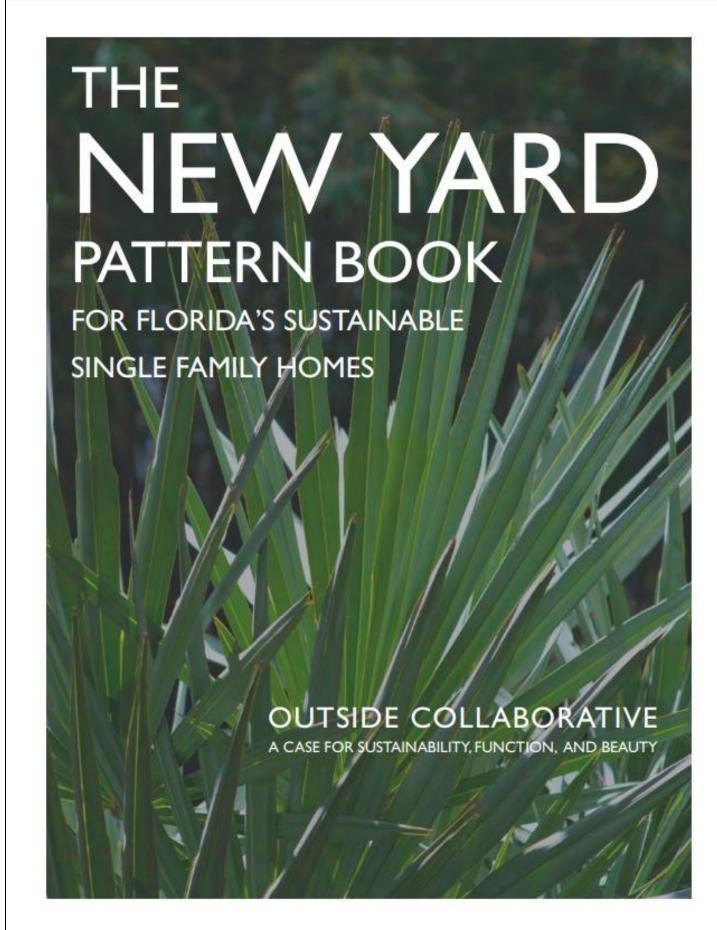




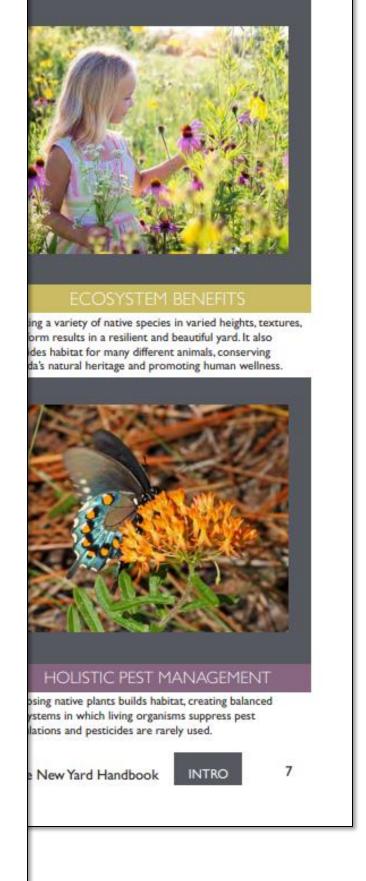


## GOALS: THE BIG 4

## THE FLORIDA ECOSYSTEM









## THE BIG 4

- Minimize/Eliminate Irrigation Beyond Establishment
- Minimize/Eliminate Mineral Fertilizer Use
- Minimize/Eliminate Pesticides
- Promote/Maximize Ecosystem
   Services





## RESIDENTIAL LANDSCAPE LOT GUIDELINES

#### 10' STREET BUFFER

Celebrates native ecology and connects with the story of place at a human-scale and brings it to our front door.

#### **ACCESSIBILITY**

From the path outside your door, connect to neighborhood centers, work, school, a night out, enjoy a bike ride or a walk with your dog.

#### **OUTDOOR LIVING**

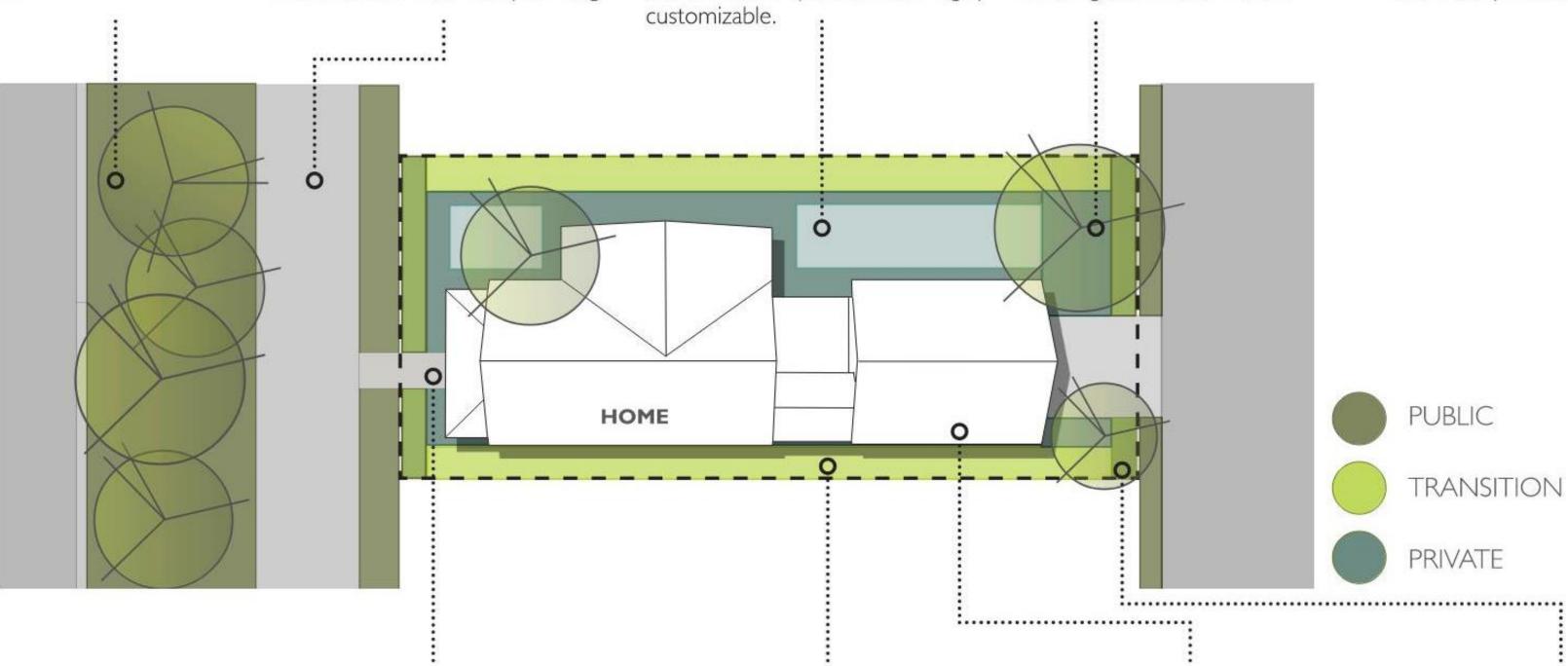
An extension of the home, these connection to the outdoors, shade, cooling the home and extend livable space and are highly

#### TREE CANOPY

Canopy trees provide valuable programmable spaces promote ecosystem services by providing reducing stormwater runoff.

#### **CHOOSE NATIVE**

Choosing native species in varied heights, textures and form creates resilient and beautiful landscapes and healthy habitat.



#### **LOW IMPACT DESIGN**

Opportunities for stormwater collection and remediation through use of rain gardens, swales, and rain barrels manages rainfall at the with path continuity and visually lot level and reduces taxation on establishes a sense of place. infrastructure.

#### **VISUAL CONNECTION**

Rear-loaded lots contribute to community connection and build relationships, promote wellness

#### PERIMETER PLANTING

Vegetative height at lot edges extends livable space and enhances sense of agency and enclosure within the private realm.

#### **NATURAL RESOURCES**

Capture solar energy with Supportive elements that honor photovoltaic roof material, capture stormwater on-site to minimize irrigation needs, use shade as a tool for reducing solar heat gain.

#### TRANSITIONAL SPACES

and enhance the threshold between public and private realms.

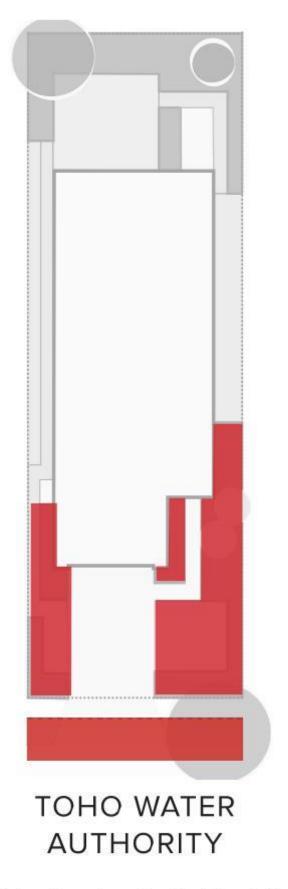
# TYPICAL FRONT YARD CONDITION



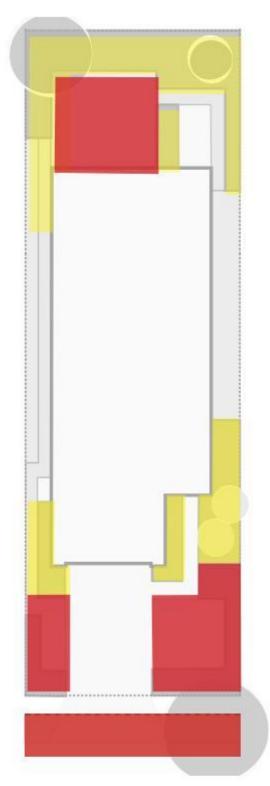
## IRRIGATION

## What does irrigating 50% of the lot look like?





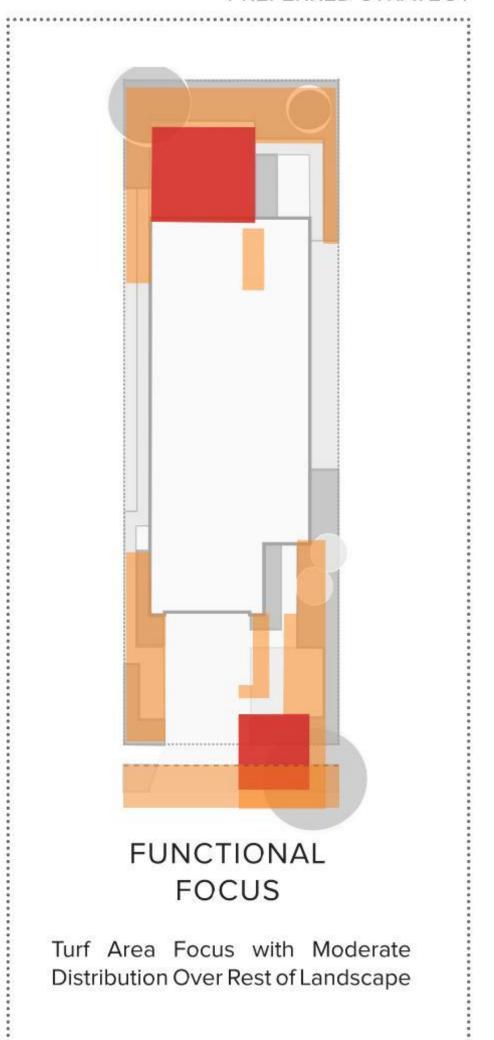
Full Irrigation Applied to Front Yard



ENHANCED FRONT YARD

Irrigation Focus on Front Yard and Turf Areas, Remaining Landscape is Irrigated at a Minimum. Requires Multiple Hydrozones.

#### PREFERRED STRATEGY



......



# Landscaping Practices @ Sunbridge Del Webb vs Weslyn Park











# Landscaping Practices @ Sunbridge Del Webb vs Weslyn Park



Fertilizer
Blanket Applications/yr
6 vs 0

Pesticides
Blanket Applications/yr
4 vs 0





# Projected Landscaping Impact Reductions Sunbridge Stewardship District – 36,000 Dwelling Units

Mowing Avoided: 430 Acres/day

Fertilizer (N) Avoided: 1,790 Lbs/day

Pesticide Avoided: 40 Acres/day

Irrigation Avoided: 10,600,000 Gal/day







# NOT THIS





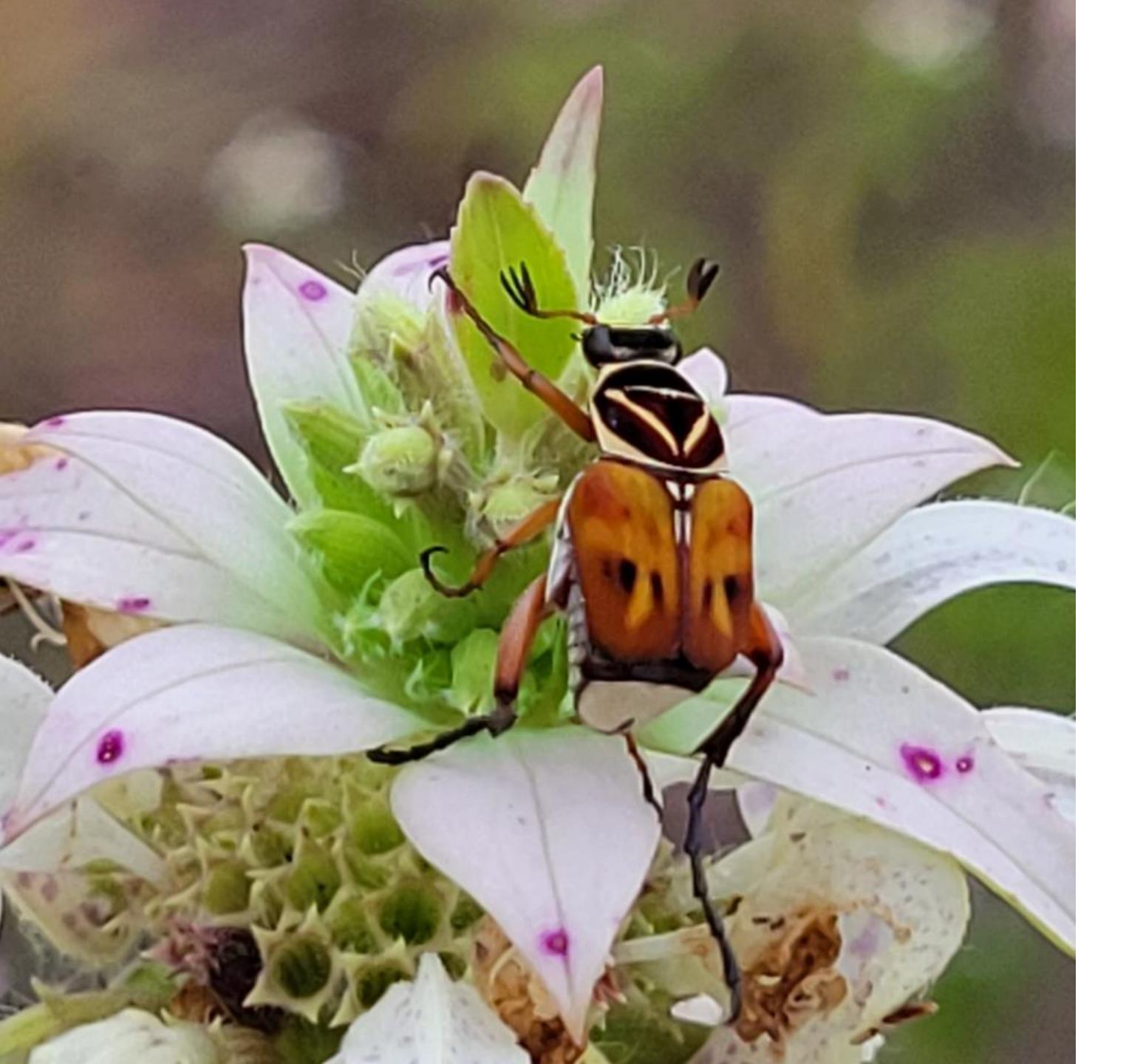












"In the past, we have asked one thing of our gardens: that they be pretty.

Now they have to support life, sequester carbon, feed pollinators and manage water"

Doug Tallamy, Co-founder HNP

