



Dr. John M. DeGrove Webinar Series:

OUTSIDE 2020: Sharing Perspectives

IMPORTANT!

Due to constraints on staff time,
we only apply for professional certification credits
and provide confirmation of attendance
for participants who attend the **live webinar**,
NOT those who view the recorded broadcast at a later date.

1000 Friends of Florida

Building Better Communities & Saving Special Places

Florida's leading nonprofit advocate for sustainable development

Work with citizens, community and state leaders,
conservation and business groups

Educate, advocate and negotiate
to protect Florida's high quality of life

Please support us at www.1000friendsofflorida.org/donate-now/

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Dr. John M. DeGrove

May 4, 1924 – April 13, 2012

Icon of comprehensive planning both in
Florida and across the nation

Co-founder of 1000 Friends of Florida

To find out more, please visit:

www.1000friendsofflorida.org/dr-degrove/



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This webinar has been approved for:

Planners (1.5 AICP CM #9198513)

Certified Floodplain Managers

Florida Certified Environmental Health Professionals

International Society of Arboriculture

An applications has been submitted for Florida Landscape Architects (DBPR) but we cannot guarantee approval.

*At present the Florida Bar is not accepting any new applications for CLE credits **In the follow up email for the LIVE WEBINAR you will receive:***

A link to a **brief survey** to help us improve future webinars

A certificate of attendance

(see directions on next slide for Landscape Architects and ISA)



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For Landscape Architects (approval not received):

1000 Friends only provides certificates of attendance for those who attend the live webinar

1. In the follow up email sent an hour after the live webinar you will receive a certificate of attendance
2. Use Google Chrome to download the certificate
3. Add the course number, provider number and your number to the certificate
4. Submit the certificate yourself to DBPR

Florida Landscape Architects – 1000 Friends of Florida Provider #PVD151)



Dr. John M. DeGrove Webinar Series

- May 13 – Understanding Land Use and Growth Management Planning in Florida

All webinars are from noon – 1:30 Eastern Time unless otherwise noted.

1000 Friends has applied for credits for planners (AICP CM), Florida landscape architects (DBPR), Florida Certified Floodplain Managers (CLE), and Florida Certified Environmental Health Professionals (CEHP), but cannot guarantee that credits will be approved.

Register at: www.1000friendsofflorida.org/webinar/



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Donate on-line at www.1000fof.org/donate

(you may designate it for DeGrove Education Fund if you wish)

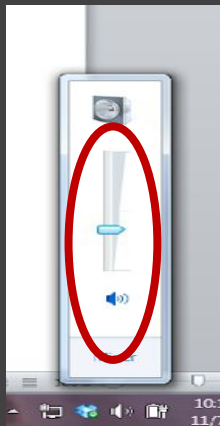
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- Make sure the speaker on your computer is turned on
- Adjust the volume on your computer
- On Go-to-Webinar control panel click on Audio box and do sound check and adjust accordingly

OR

- On Go-to-Webinar control panel click on Audio box and then Telephone and follow directions to call in

The PowerPoint is posted under “What’s New” at www.1000fof.org




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M-CORES Update

1000 Friends strongly opposed the 2019 Legislation to create three toll roads through some of Florida's most pristine lands.

[Find out the latest here](#)



2018-2019 Annual Report

Check out 1000 Friends of Florida's annual report for the period from January 1, 2018 to June 30, 2019 for major highlights and donors.

[Find out the latest here](#)

What's New?

1000 Friends Files Citizen Rights Legal Challenge

M-CORES Webinar Broadcast Available Here

St. Johns County 2070 Events on Nov. 20 & 21

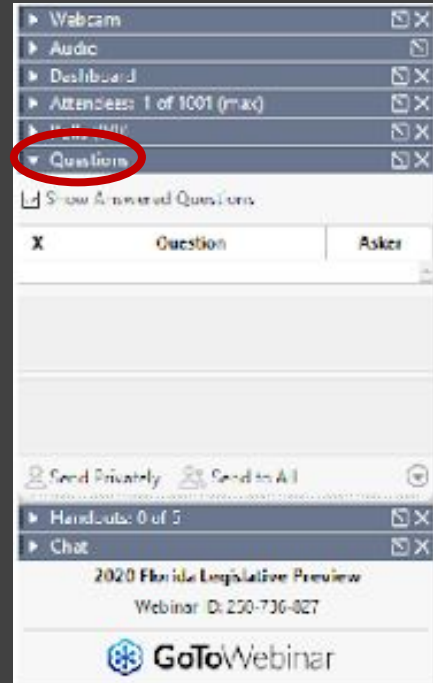
2020 Legislative Priorities

Upcoming Webinars

Upcoming Events

Please ask questions!

- Your webinar control panel includes a “Questions” box
- Please click on “+” sign and type any questions in this box
- Please refer to the slide number and/or speaker when you post your question
- Please keep your questions succinct!
- Staff will ask the presenters questions, as time permits



Presenters



Timothee Sallin

Actively involved in water conservation, sustainable landscaping and responsible agriculture in Florida over the past 15 years through role as President of Cherrylake

Cherrylake is a vertically integrated landscape company providing commercial landscape and irrigation construction and maintenance services and is the largest grower of ornamental trees, palms and shrubs in Florida

Cherrylake and sister company IMG Citrus manage over 6,000 acres of land in Florida and have a long track record of sustainable land management and stewardship

A graduate of New College in Sarasota Florida earning a degree in Economics and International Studies





Sean Parks

Lake County District 2 Commissioner, first elected in 2004

A Central Florida native who enjoys spending time with his family and friends and is very active in the community

Has a Bachelor's degree in Environmental Science and a Master's degree in Engineering Management from the Florida Institute of Technology.

Member of the American Institute of Certified Planners (AICP) and is a Qualified Environmental Professional (QEP). Commissioner Parks was elected in 2004 to the Lake County Water Authority.

Richard L. Levey, Ph. D., AICP

Managing Director, Levey Consulting, LLC,

A senior executive with extensive experience in land development, economic development, master planning, and real estate investment strategy

Assist clients with land use, land development and local government entitlement assistance throughout Florida

Special emphasis in creating unique public-private partnerships to solve critical problems and achieve common goals

Strong network of local government relationships from over 30 years of experience in local government leadership, growth management and development approvals





Patrick Bohlen, Ph.D.

Director of Landscape and Natural Resources (LNR) and Arboretum, and Professor of Biology at the University of Central Florida.

Received his PhD in entomology from Ohio State University in 1994 where he studied soil and ecosystem ecology.

Research biologist at Archbold Biological Station in Lake Placid, Florida for 11 years prior to coming to UCF in 2010.

The LNR department is responsible for landscape operations and natural resource management on UCF's main campus, Lake Nona medical campus, and other UCF facilities.



Introduction

Timothee Sallin
CherryLake



OUT SIDE

SUSTAINABLE LANDSCAPE COLLABORATIVE

outsidcollab.com

OCTOBER 22-23, 2020 | CLERMONT, FL



SUSTAINABLE DEVELOPMENT GOALS

17 GOALS TO TRANSFORM OUR WORLD

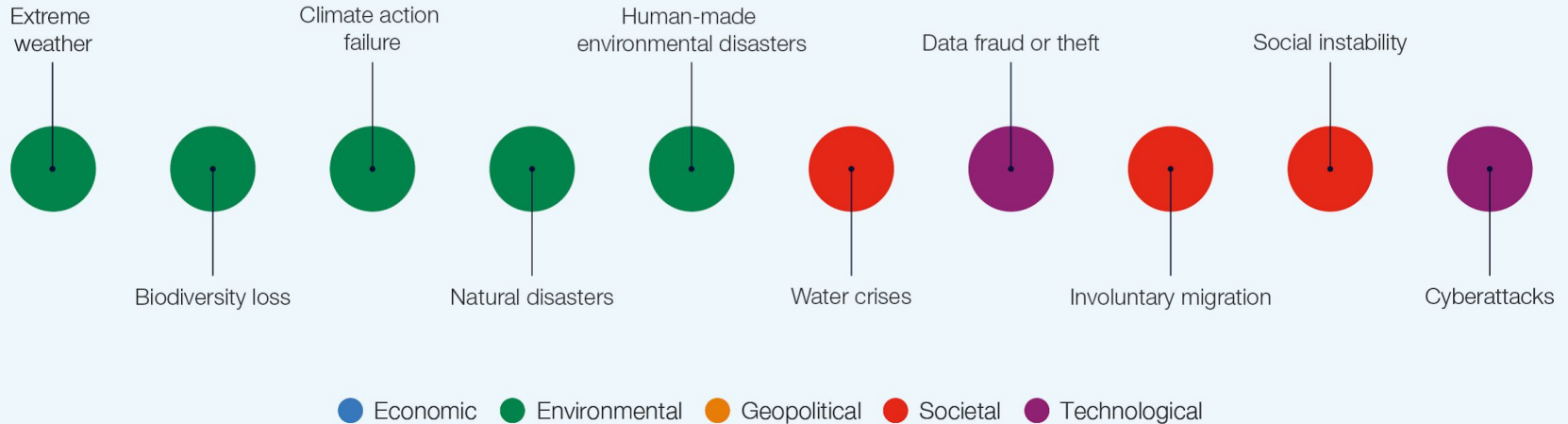
OUTSIDE



TOP 10 RISKS OVER THE NEXT 10 YEARS

Long-Term Risk Outlook: Likelihood

Global Shapers



OUT SIDE

JOIN THE CONVERSATION

OCTOBER 22-23, 2020 | CLERMONT, FL | outsidecollab.com | Whova phone application

OUTSIDE 2020 OCT 22-23RD

CONTINUING EDUCATION

Approved

Landscape Architect DBPR: 12 CE Credits

Certified Floodplain Manager: 10.5 CE Credits

FNGLA: 8 CE credits

Florida Water Star Accredited Professionals: 8 CE credits

Florida Environmental Health Professionals: 10.5 contact hours or 1.5 CE credits

ISA: 10.5 CE credits

Florida Bar Law: 8.5 CLE Credits

AICP: 10.5 CE credits

Pending Approval

Community Association Manager DBPR

OUTSIDE 2020 OCT 22-23RD

SPEAKERS



Bill Truex



Blake Drury



Chris Hite



Claire Lewis



Clay Ferrara



Deirdre Irwin



Donald G. Wishart



Eban Bean



Ernie Cox



Jason Evans



Katrina Locke



Kody Smith



Lauren Hindman



Lee Constantine



Marc Godts



Michael Dukes



Patrick Bohlen



Pierce Jones



Nick Taylor



Richard Levey



Robin Grantham



Sean Parks



Tim Jackson



Timothee Sallin



Warren Gorowitz



Wendy Anderson

LOCAL PROJECT TOURS



Victory Pointe Park:
Green Infrastructure & Downtown
Redevelopment



The Esplanade at Highland Ranch



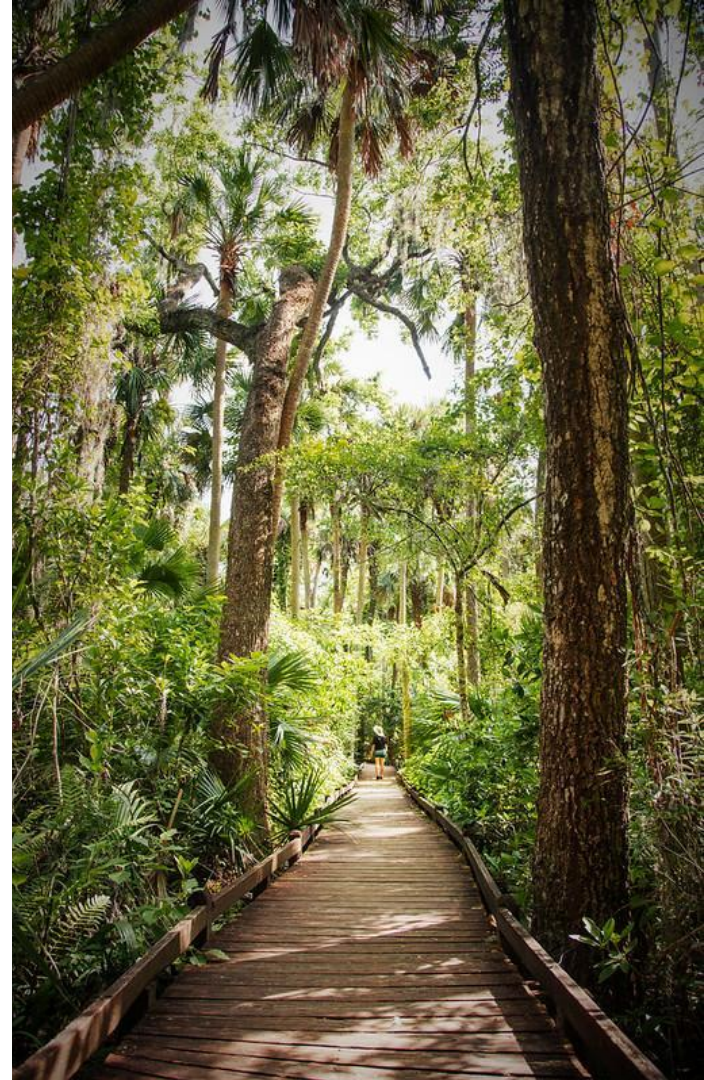
The Florida Scrub-Jay Trail Planting:
Promoting Biodiversity with Native
Landscapes

PROMOTING SUSTAINABLE LANDSCAPES FOR RESPONSIBLE GROWTH & DEVELOPMENT

SEAN PARKS

Lake County District 2 Commissioner

**OUT
SIDE**





REAL FLORIDA.
REAL CLOSE.





REAL FLORIDA.
REAL CLOSE.



**OUT
SIDE**

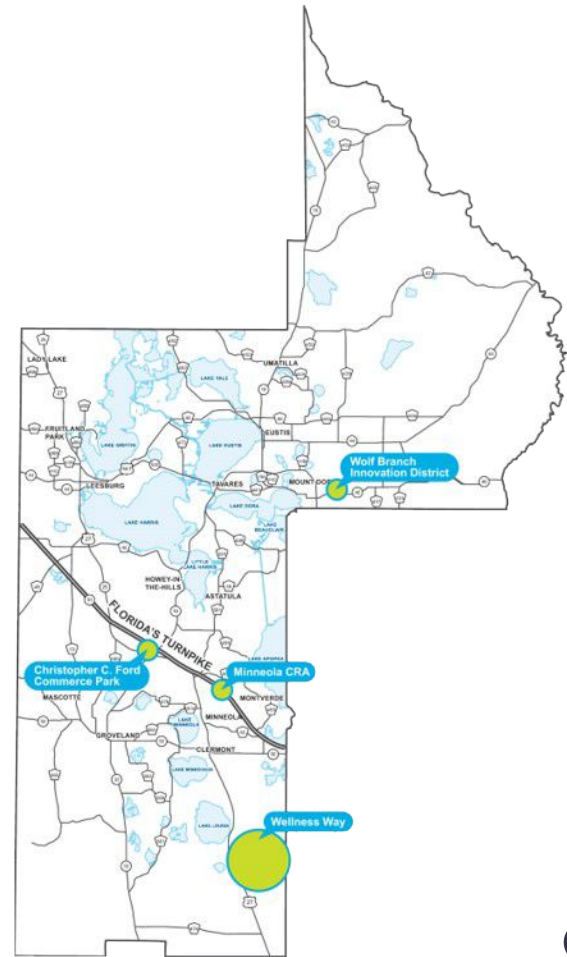
GROWTH CHALLENGES & OPPORTUNITIES



As the Metro-Orlando core continues to approach build-out and growth pressures extend into the surrounding counties, Lake County finds itself uniquely positioned to absorb a significant portion of Central Florida's future growth.

Lake County is ranked among the top 5 fastest growing counties in Florida with a projected growth of 27% by 2030.

The U.S. sustainability market was projected to reach \$150 billion in 2021. As consumer demands are shifting towards sustainability, buy-in from stakeholders may further support environmental responsibility while increasing profitability.

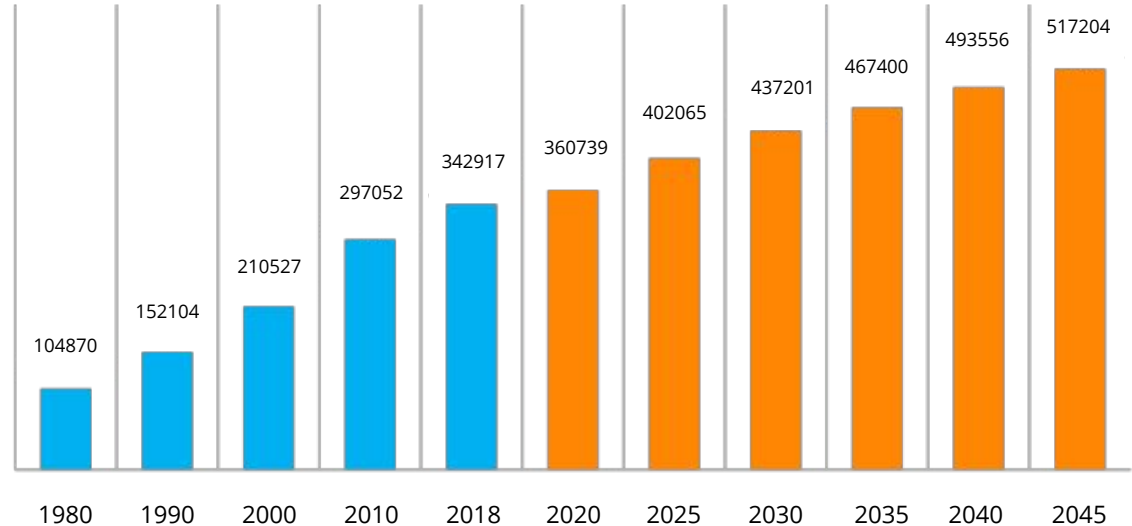


GROWTH CHALLENGES & OPPORTUNITIES



- Wellness Way: 15,000 undeveloped acres with 16,000 dwelling units
- Wolf Branch Innovation District: 1,300 acres

Lake County Population



WELLNESS WAY

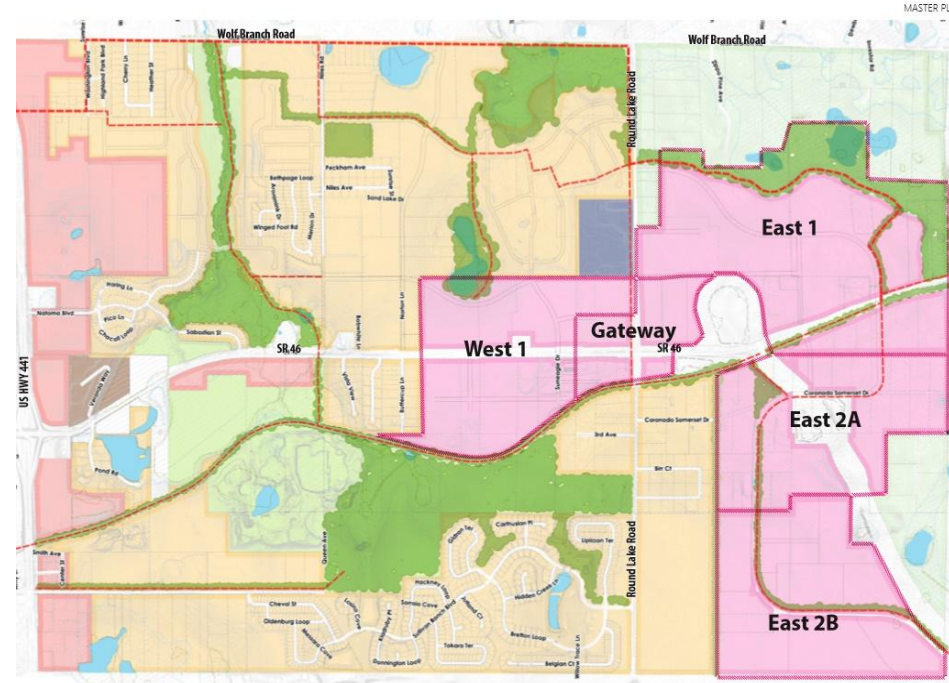
The Wellness Way corridor includes over 16,000 acres located inside of Interstate-4, Florida's Turnpike, and U.S. Highway 27.

Wellness Way will capitalize on the human performance training, nutrition, sports medicine and health sciences work being done at the National Training Center, South Lake Hospital and Lake-Sumter State College, among others while protecting South Lake County's existing natural resources through effective master planning.



WOLF BRANCH

The Lake County Office of Elevate Lake is working jointly with the City of Mount Dora to plan and develop a significant employment center situated on approximately 1,300 acres along the Parkway extension into Mount Dora.



SUSTAINABLE LANDSCAPE

WHY IS A SUSTAINABLE LANDSCAPE IMPORTANT TO LAKE COUNTY?

- Protects Agricultural (lots of \$\$\$) in Lake County – by limiting nuisance/exotic species and limiting excessive nutrient uptake by nuisance/exotic species on our agricultural soils. Protects pollinators critical to agriculture in Lake County
- Enhances wildlife corridors and pathways
- Keeps us consistent with the brand, “Real Florida – Real Close” embraced by the BCC. We are not “Real Somewhere else – Real Close.” We are one of a kind – lets act like it!

SUSTAINABLE LANDSCAPE

WHY IS A SUSTAINABLE LANDSCAPE IMPORTANT TO LAKE COUNTY? [continued]

- Economic Development – Studies show property values are increased on developed lands with enhanced landscaping and buffer zones
- Compliments the growing health and outdoor fitness ethic in Lake County among people moving to the County, particularly Millennials and Gen Z

CURRENT

LANDSCAPE CRITERIA

Lake County Comprehensive Plan:

- Emphasizes use of “right plant-right place” and Florida Friendly landscaping approaches to lawn and landscape design
- Wellness Way prohibits non-native landscape species and requires Florida Water Star irrigation; intent of Wellness Way to require 100% of landscape irrigation to be provided by re-use water
- Requires education programs pertaining to fertilizer use (proper application)

Lake County Land Development Regulations:

- Promotes use of native landscape species and encourages plants that qualify as Florida Friendly to be used in landscaped areas
- Requires at least 50% of landscape materials be native species
- Mandatory Florida Water Star irrigation requirements
- Newly created fertilizer ordinance; proper training for commercial applicators, application rates, separation from water bodies

REAL FLORIDA.

REAL CLOSE.



OUT SIDE

Right Plan, Right Place:

- Low-maintenance ground covers, shrubs, mulch, or other porous surfaces where possible; low maintenance plants reduces need for water, fertilizer, pesticides, and pruning
- Grouping plants according to their water needs
- Shading A/C equipment with trees or shrubs
- Remove invasive exotic plants from yard
- Reduce yard waste by choosing plants that will not require frequent pruning when they reach maturity
- Preserve native plants, especially trees, when developing sites

Challenges In Promoting Florida Friendly:

- Developers typically want the most cost-effective measures possible
- Push back from developers as Florida Friendly or native materials are not always available
- Inaccurate perceptions of Florida's "Tropical" landscape and marketing by some big retailers

LANDSCAPE & SUSTAINABILITY IN LARGE SCALE DEVELOPMENT

Richard L. Levey, Ph. D., AICP

Levey Consulting, LLC

**OUT
SIDE**

LEVEY
CONSULTING





LEVEY CONSULTING

Building Unique Partnerships
Achieving Effective Results

- Entitlements
- Economic development
- Land development
- Master planning
- Governance
- Organizational management
- Expert testimony

Clients:



TAVISTOCK
DEVELOPMENT COMPANY



UNIVERSITY OF
CENTRAL FLORIDA



CITY OF
MOUNT
DORA



Sunbridge

**OUT
SIDE**

DEDICATED TO EXCELLENCE

TAVISTOCK GROUP

Tavistock Group was founded over 40 years ago by private investor Joe Lewis. The group has more than 200 assets across 10 countries with a deep concentration in 11 strategic verticals.

"We are dedicated to excellence in everything we do."
- Joe Lewis



**OUT
SIDE**



TAVISTOCK DEVELOPMENT COMPANY

TAVISTOCK GROUP



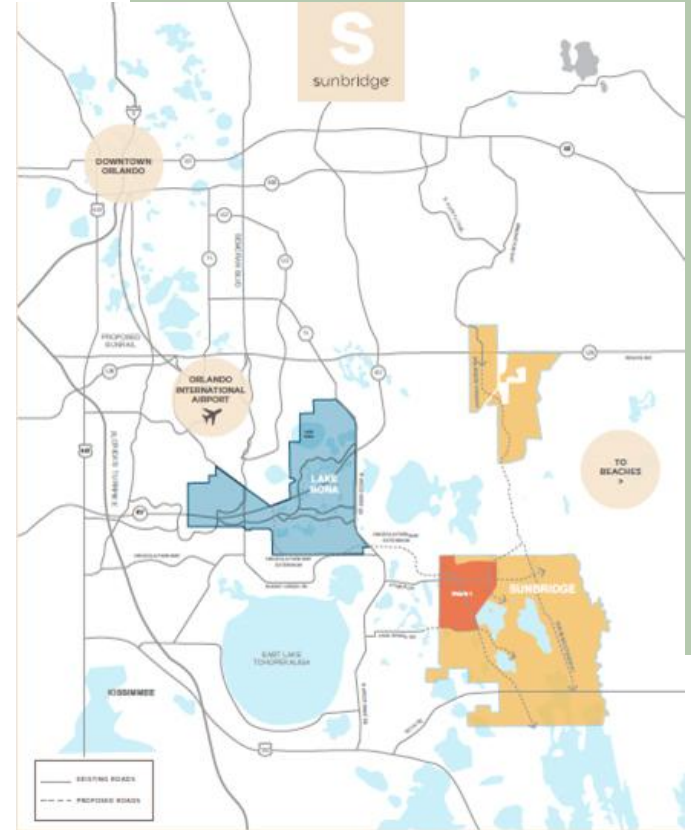
Guided by an experienced leadership team, Tavistock Development's dedication to doing things better is the foundation of every project.

Tavistock specializes in the development of projects across Commercial/Mixed-Use, Education, Health/Well Being, Hospitality, Residential, Performance/Training and Sports

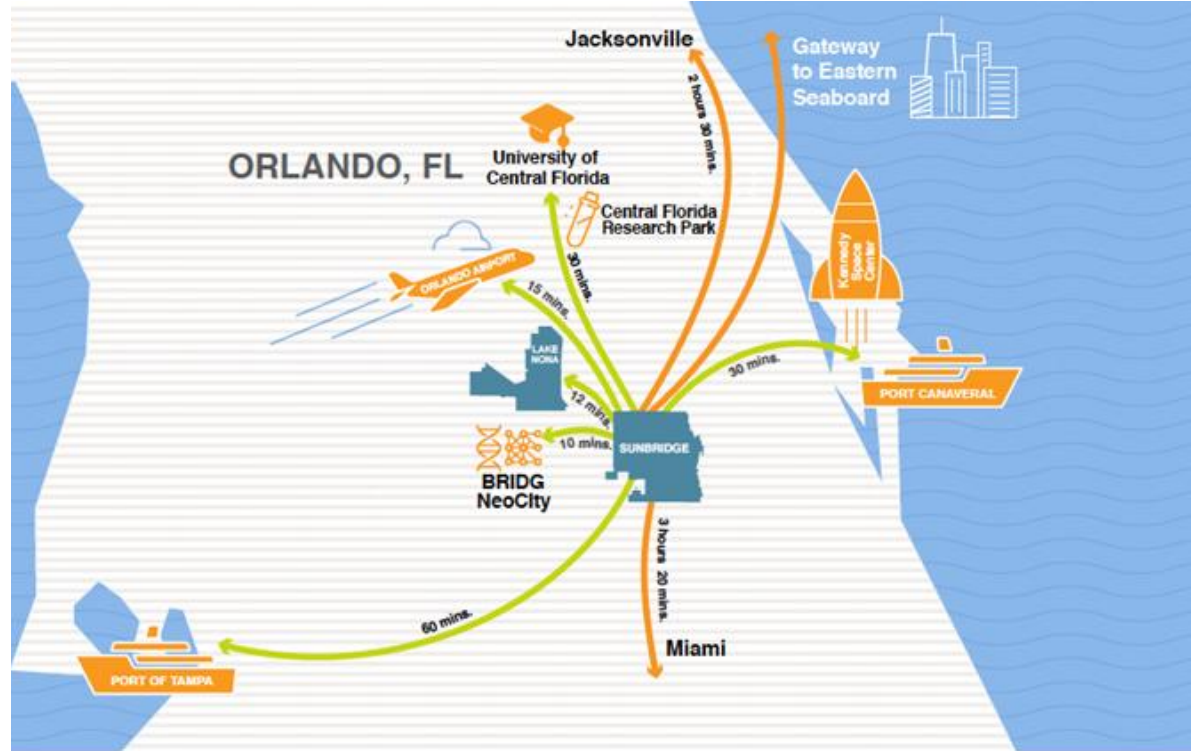
**OUT
SIDE**

SUNBRIDGE

A new, 24,000-acre master-planned community in Central Florida from Tavistock Development Company that will include a diverse range of neighborhoods, employment centers and commercial districts.



REGIONAL POSITION



APPROACH TO LANDSCAPE





The 24,000 acre holding has a wide variety of native communities and ecosystems.

CONTEXT OVERVIEW

- Sets the stage for the identity and character of the overall development.
- Human geography – history, people and culture.
- Native ecological communities play a large directional role in defining the physical character of the built community.
- This region of central Florida area is defined by interconnected lakes, natural forests and improved pastures.
- Home to the pristine Preston Chain of Lakes.
- This land warrants a primary conservation network to maintain the site's natural beauty and provide a system of naturally interconnected native habitats by way of environmental corridors.



OVERVIEW | THE PROPERTY



**OUT
SIDE**

OVERVIEW | ORANGE COUNTY



OVERVIEW | OSCEOLA COUNTY





**OUT
SIDE**

DESIGN PRINCIPLES

AUTHENTICITY

- Embrace Ecological Envelope
- Utilize Contextual Materials
- Promote Positive Cultural/Historical References

DISTRIBUTED EXPERIENCES

- Design Site Circulation with Variable Sized Nodes and Networks for a Balanced Mix of Programs
- Create Diverse Experience Combinations to Generate a Wide-ranging Mix of Spaces
- Design Spaces with Experiential Qualities for Diverse Site Programming and Different User Groups

ICONIC LANDMARKS

- Attract People to the Community with Lakes, Canals, Marina, Parks and Community Gardens





DESIGN PRINCIPLES OVERVIEW

FUN / “LUDIC”

- Provide Fun, Social and Educational Events Within the Community
- Introduce Whimsical Elements into the Design

PROMOTE SOCIAL INTERACTION

- Bringing People Together by Creating a Hierarchy of Distinct Social Spaces
- Nurturing the Physical, Emotional, and Spiritual Needs of a Person and the Community by Incorporating Diverse Spatial Experiences

CONNECTED SYSTEMS

- Use Trails and Waterways to Create Connections
- Connect People to People
- Connect People to Infrastructure
- Connect People to Nature

SUSTAINABILITY



ELEMENTS

LANDSCAPE OVERVIEW

HARDWOOD FOREST

- Large Canopy Spread
- Low Canopy Structure
- Low Lighting in Understory

PINE FLATWOODS

- High Canopy
- High Canopy Structure
- Dappled Lighting in Understory

SCRUB

- Low Vegetation Height
- Drier Conditions

DRY PRAIRIE

- Grasslands
- Drier Conditions

CYPRESS FOREST

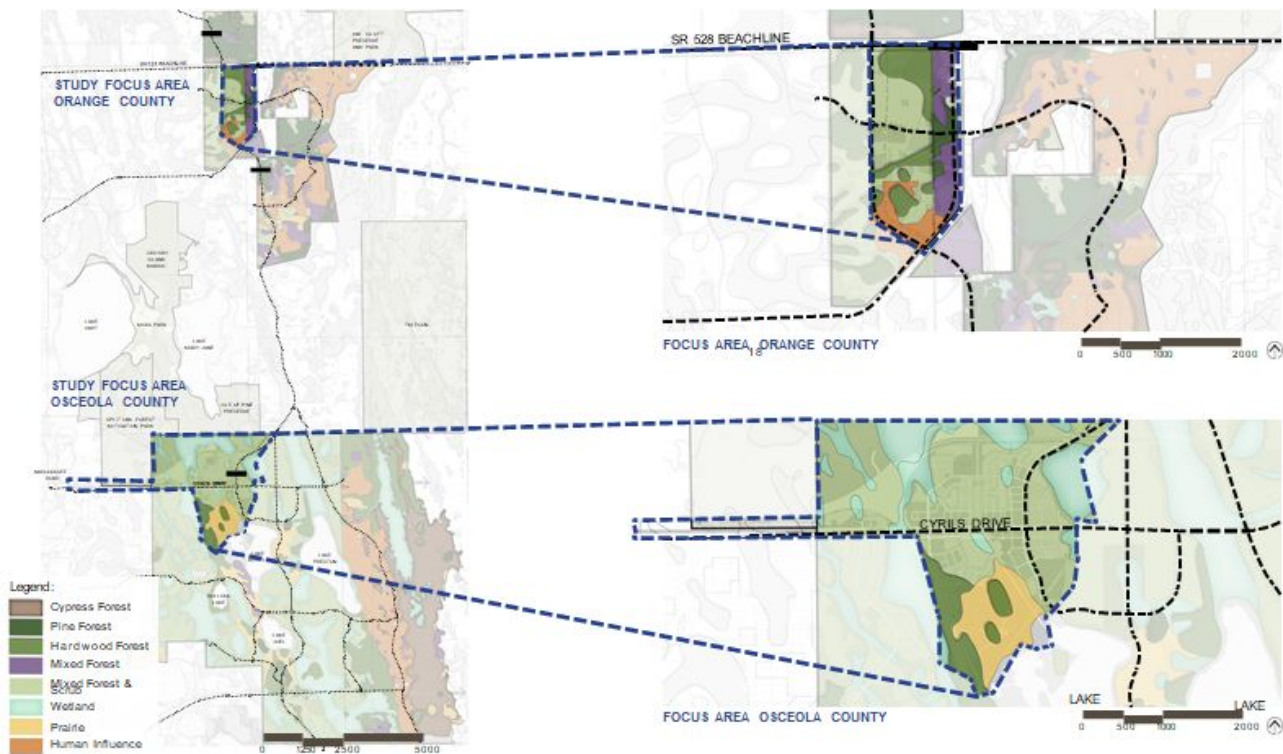
- High Canopy Structure
- Wet Conditions

PONDS AND LAKES



ELEMENTS

LANDSCAPE COMPOSITE DRIVES LAND USE PLAN



SUNBRIDGE OBJECTIVES

- Design with native communities
- Sustainable aesthetic
- Reduction of water consumption
- Lower O & M costs

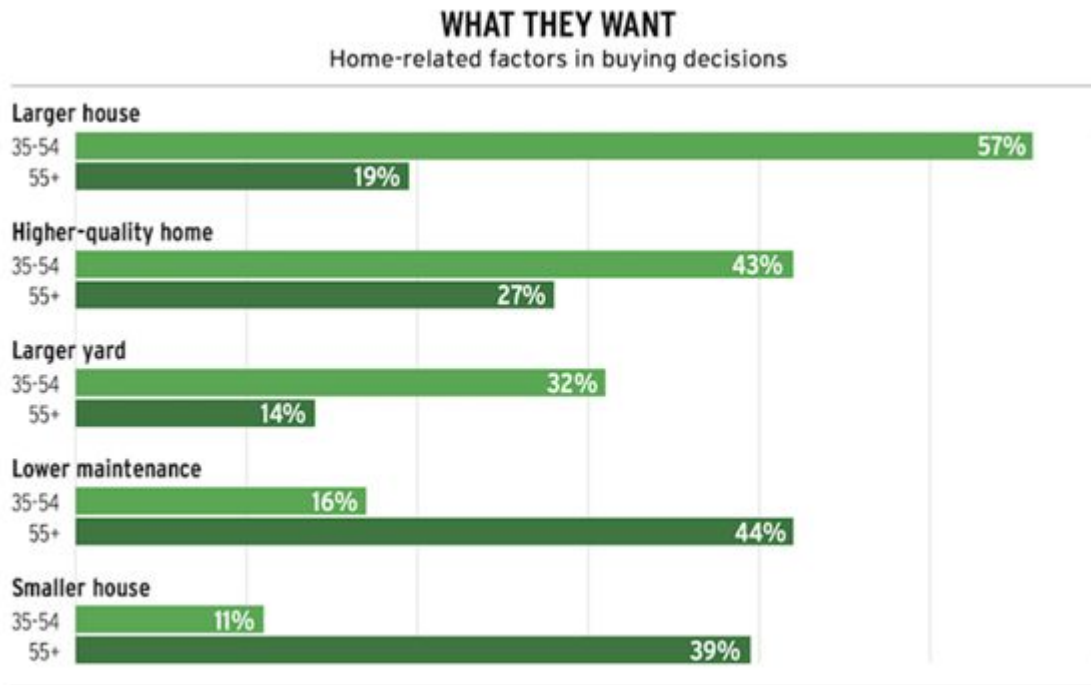


OUT
SIDE

SUSTAINABILITY CHALLENGES



LAND DEVELOPMENT IS FOR A PROFIT BUSINESS

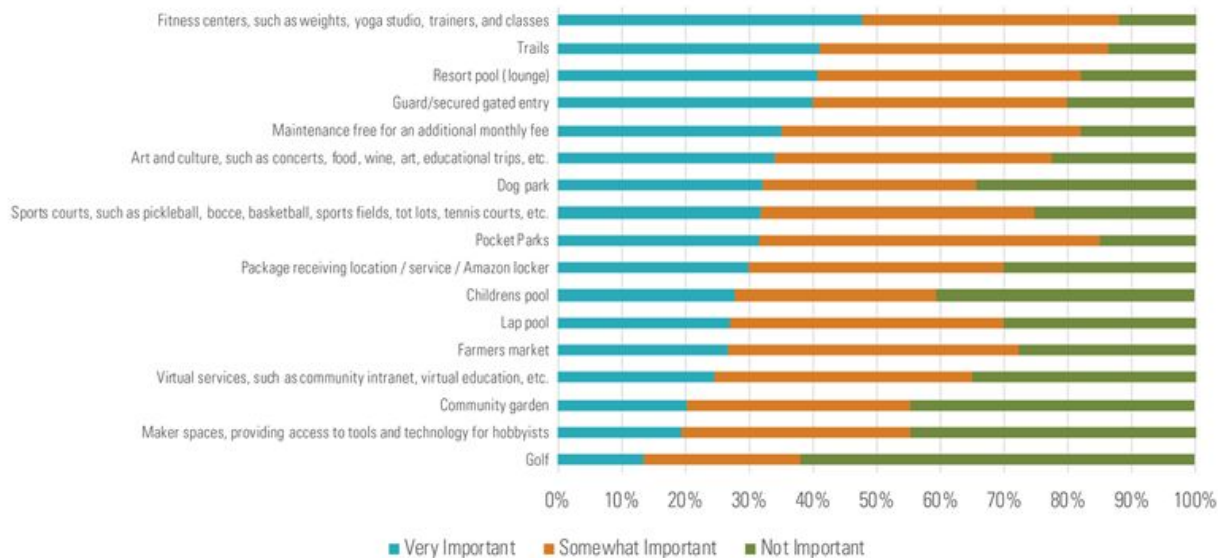


SOURCE: 2019 HOMEBUYER SURVEY, RCLCO REAL ESTATE ADVISORS

LARGE SCALE LAND DEVELOPERS

Look for long term opportunities
Buyer Preferences
Market Segmentation
Flexibility

Fitness Centers and Trails are the Most Preferred MPC Amenities



Source: RCLCO Consumer Research

HISTORY OF LANDSCAPE

- Perception is reality
- Florida is supposed to be 'evergreen & tropical'
- The entrance is the first impression of a project
- If it's not spectacular, it's not 'high end'



MASS GRADING

- 'Master' Stormwater Systems
- Water Table
- Soil Profile
- Fill
- Compaction



STREET TREES

OLD METHODS

- High water table
- No soil testing before landscape design
- Permeability



STREET TREES

NEW METHODS

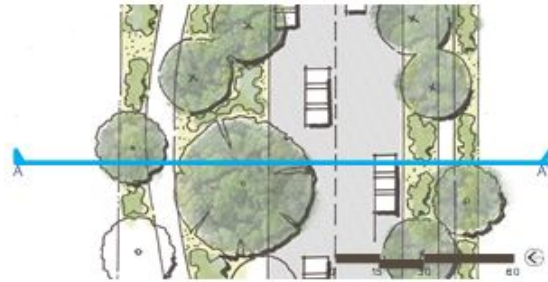
- Test soil before design
- Raise tree well
- Auger below fill level to native soil



OUT
SIDE

APPLICATION | STREET SECTION

Along the collector roads in Sunbridge, a native and 'natural' planting style will reinforce the character of the existing stands of trees found throughout the community. These plantings will provide ample shade and a sustainable landscape that slows stormwater runoff and reduces maintenance needs. Large pedestrian zones will encourage alternative modes of transportation alongside the two lane vehicular movement found on this street type.



SECTION A



LEGACY TREE PROGRAM



LEGACY TREE PROGRAM



LEGACY TREE PROGRAM



REGULATORY ISSUES





REGULATORY ISSUES

- Water supply policy pushing change
- Buyers are more sophisticated on sustainability issues
- Perception of native species and reduction in chemical treatment
- Incremental vs holistic regulatory shift

ECOLOGICAL FOUNDATIONS FOR SUSTAINABLE LANDSCAPES

Patrick Bohlen, Ph. D.

University of Central Florida

**OUT
SIDE**

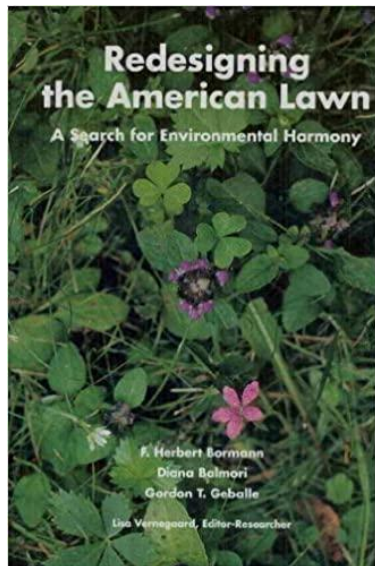


UNIVERSITY OF
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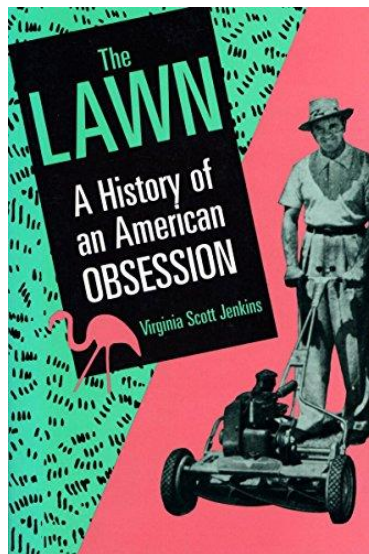


EVOLVING PERSPECTIVES

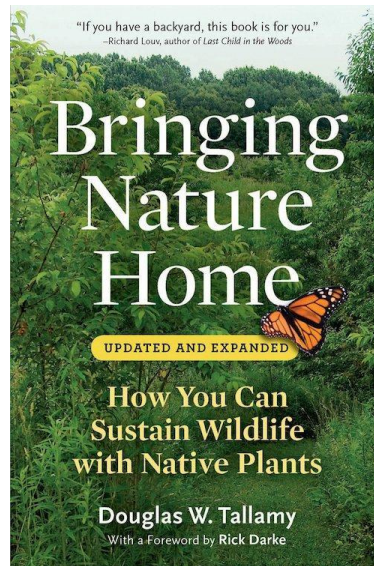
1993



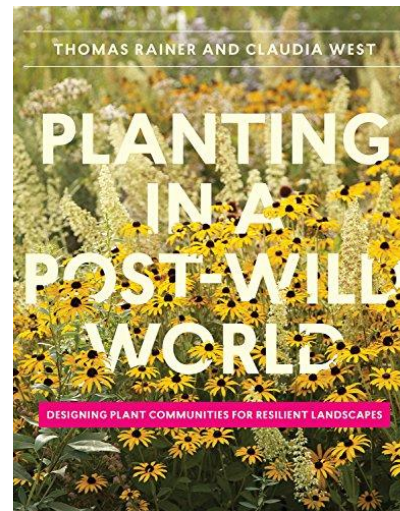
1994



2007



2015



THE POWER OF SOCIAL NORMS



NATURAL ECOSYSTEMS

INPUTS

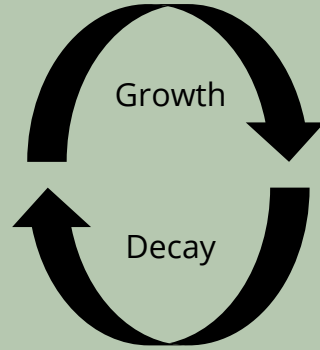


SUNLIGHT

CLIMATE

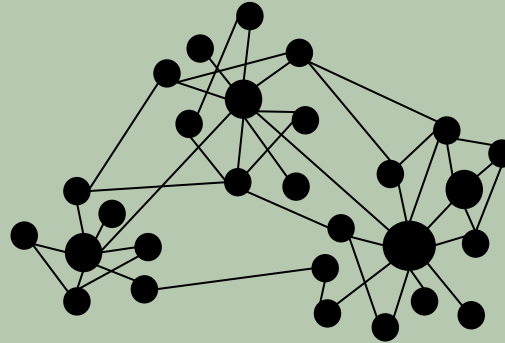
SOIL

TOPOGRAPHY



- Complexity
- Redundancy
- Resilience

Complex
Networks



OUTPUTS



BIODIVERSITY

FOODWEB SUPPORT

HABITAT

GROUNDWATER
RECHARGE

ATMOSPHERIC
EXCHANGE

TYPICAL LANDSCAPE DEVELOPMENT

INPUTS



SUNLIGHT

CLIMATE

SOIL (modified)

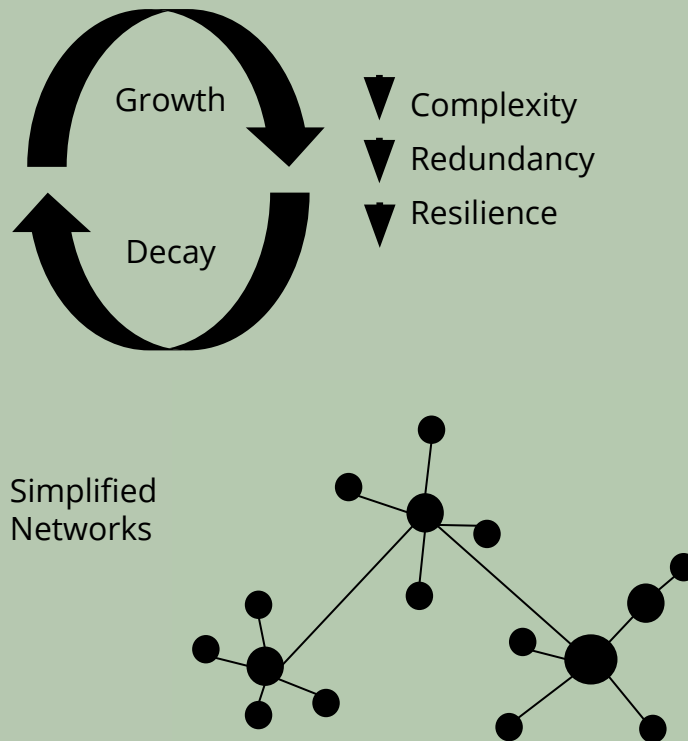
TOPOGRAPHY

PLANT PALETTE

FERTILIZER

PESTICIDES

FOSSIL ENERGY



OUTPUTS

ORGANIC WASTES

SIMPLIFIED FOODWEBS

PREFERRED AESTHETICS

LIMITED HABITAT

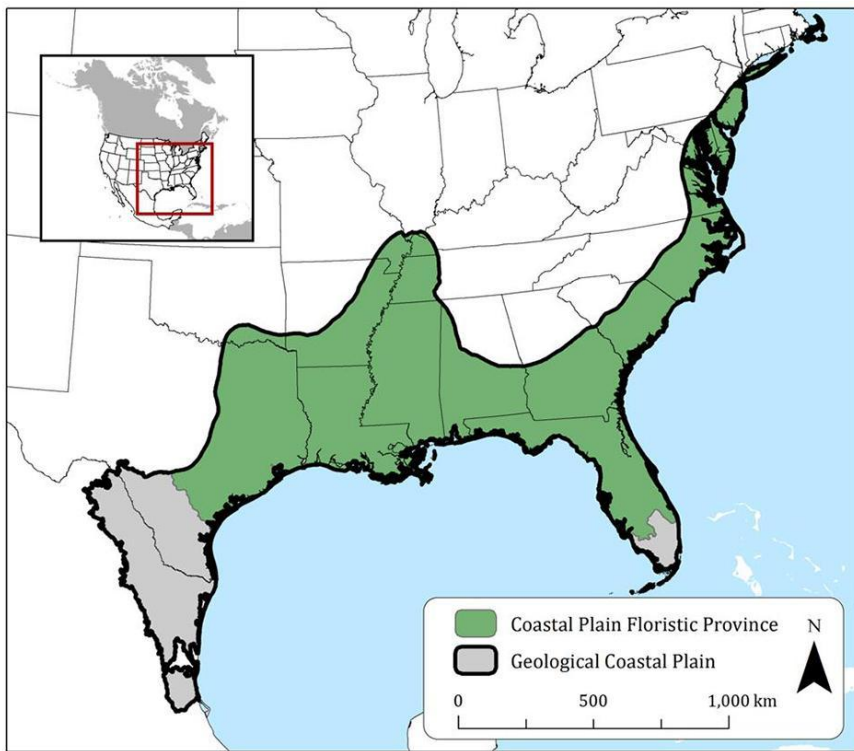
INCREASED RUNOFF

GREENHOUSE GASES

POLLUTION

HEALTH RISKS

OUT
SIDE



REGIONAL CONTEXT

ANNOUNCING THE WORLD'S 36TH BIODIVERSITY HOTSPOT: THE NORTH AMERICAN COASTAL PLAIN

February 18, 2016

By Reed Noss

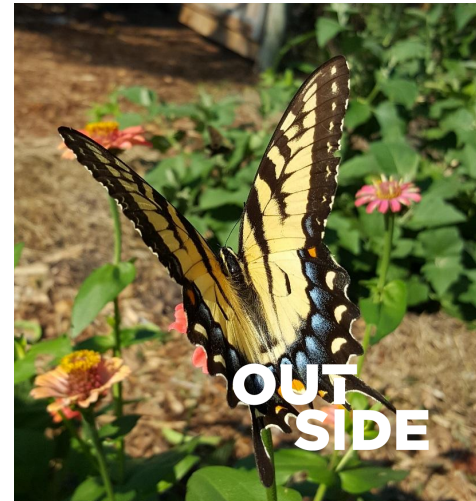
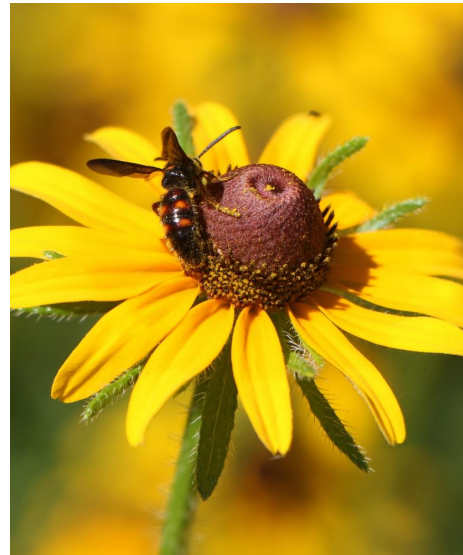
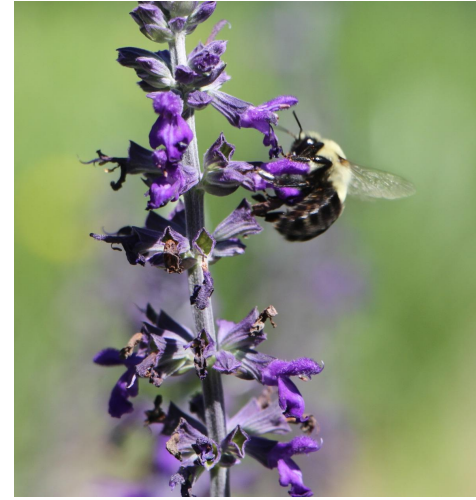
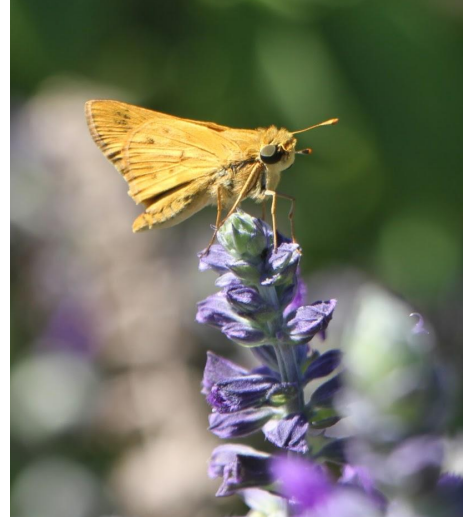
Provost's Distinguished Research Professor
Department of Biology, University of Central Florida

4 PRINCIPLES OF

MORE SUSTAINABLE LANDSCAPING

1. Meet aesthetic, environmental and economic goals
2. Reduce energy inputs, including fertilizers and chemicals
3. Reduce water inputs
4. Increase biological diversity

**FUNCTIONAL
LANDSCAPES:
POLLINATORS**



FUNCTIONAL LANDSCAPES: BIRDS



Photo by Paul Tessier



Photo by Craig Abbott



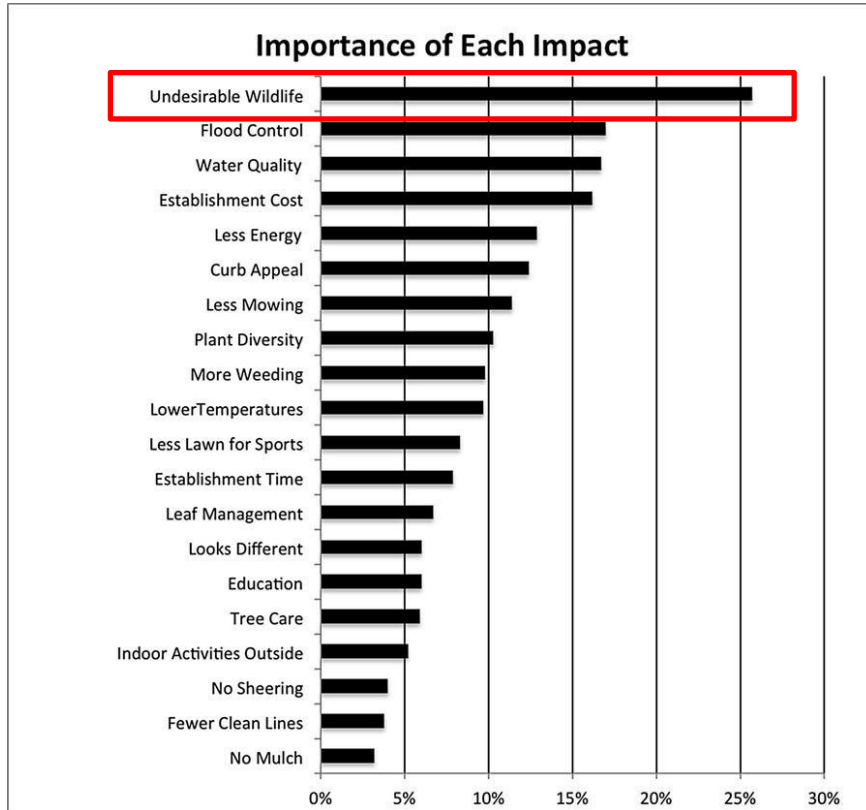
Photo by Kevin Shea

OUT
SIDE

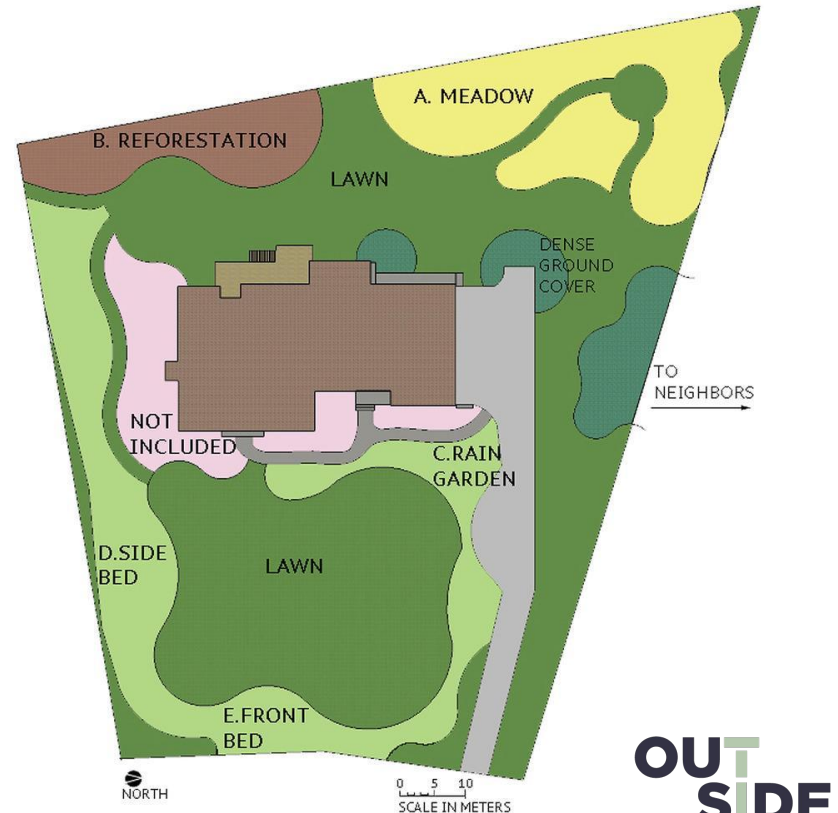
IMPORTANT OF NATIVE SPECIES

- Benefits vary by species
- Depends on specific resources provided
- Exotics change timing and availability of resources
- Native plants support more native insects

UNDESIRABLE ASPECTS OF ECOLOGICAL LANDSCAPES



Source: Joshua Duke et al. *Heliyon* 2 (2016) e00127



OUTSIDE

BARRIERS TO CREATING MORE SUSTAINABLE LANDSCAPES

- Social Norms
- Development constraints
- Codes and ordinances
- Design limitations
- Horticultural limitations

**HOW CAN
WE TURN
THINGS
AROUND?**



**OUT
SIDE**

SIMPLE

SOLUTIONS

- Develop top 40 easy native plant list
- Develop templates and guidelines for designers
- Reduce amount of turf grass—or loosen turf requirements
- Certification for sustainable landscapes

RESEARCH NEEDS

- Urban ecology research
- Plant species and combinations that support biodiversity
- Improvement of native cultivars
- Impacts of chemical use on biodiversity

**WE NEED TO WORK
TOGETHER TO CREATE
MORE SUSTAINABLE
LANDSCAPES**



**OUT
SIDE**



WEBINAR SPEAKERS



Timothee Sallin

Cherrylake



Sean Parks

Lake County District 2 Commissioner



Richard L. Levey, Ph. D., AICP

Levey Consulting, LLC



Patrick Bohlen, Ph. D.

University of Central Florida

A close-up, low-angle shot of a large clump of pink Muhlenberg grass (Miscanthus sinensis) in a field. The grass is in sharp focus, showing its fine, feathery texture and vibrant pink color. The background is a soft-focus landscape with green grass and distant trees under a clear sky.

OUT SIDE

SUSTAINABLE LANDSCAPE COLLABORATIVE

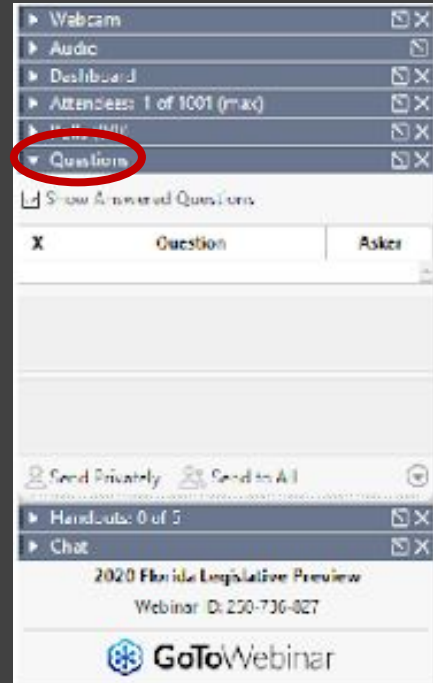
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Questions and answers

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M-CORES Update

1000 Friends strongly opposed the 2019 Legislation to create three toll roads through some of Florida's most pristine lands.

[Find out the latest here](#)

Information on M-CORES only to the Florida Department of Transportation



2018-2019 Annual Report

Check out 1000 Friends of Florida's annual report for the period from January 1, 2018 to June 30, 2019 for major highlights and donors.

[Find out the latest here](#)

1000 Friends Files Citizen Rights Legal Challenge

[M-CORES Webinar Broadcast Available Here](#)

[St. Johns County 2070 Events on Nov. 20 & 21](#)

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[Upcoming Webinars](#)

Upcoming Events

This webinar has been approved for:

Planners (1.5 AICP CM #9198513)

Certified Floodplain Managers

Florida Certified Environmental Health Professionals

International Society of Arboriculture

An applications has been submitted for Florida Landscape Architects (DBPR) but we cannot guarantee approval.

*At present the Florida Bar is not accepting any new applications for CLE credits **In the follow up email for the LIVE WEBINAR you will receive:***

A link to a **brief survey** to help us improve future webinars

A certificate of attendance

(see directions on next slide for Landscape Architects and ISA)



For Landscape Architects (approval not received):

1000 Friends only provides certificates of attendance for those who attend the live webinar

1. In the follow up email sent an hour after the live webinar you will receive a certificate of attendance
2. Use Google Chrome to download the certificate
3. Add the course number, provider number and your number to the certificate
4. Submit the certificate yourself to DBPR

Florida Landscape Architects – 1000 Friends of Florida Provider #PVD151)



Dr. John M. DeGrove Webinar Series

- May 13 – Understanding Land Use and Growth Management Planning in Florida

All webinars are from noon – 1:30 Eastern Time unless otherwise noted.

1000 Friends has applied for credits for planners (AICP CM), Florida landscape architects (DBPR), Florida Certified Floodplain Managers (CLE), and Florida Certified Environmental Health Professionals (CEHP), but cannot guarantee that credits will be approved.

Register at: www.1000friendsofflorida.org/webinar/



Dr. John M. DeGrove Webinar Sponsors

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