



The SECAS Third Thursday Web Forum

Carbon and stormwater credit parks for regional recreation, social equity, and resilience in Florida

Agenda

- Introduction
- Monthly topic
- Q&A and discussion
- Preview of next webinar
- Staff updates



Carbon and stormwater credit parks for regional recreation, social equity, and resilience in Florida

Kyle Buck and Rick Durbrow, U.S. Environmental Protection Agency

10-20-2022



Carbon and Stormwater Credit Parks for Regional Recreation, Social Equity and Resiliency

Southeast Conservation Adaptation Strategy Thursday Forum - October 20th, 2022

Rick Durbrow and Drew Parker
Environmental Protection Agency Region 4
Mission Support Division and
Water Management Division
Atlanta, Georgia

Kyle Buck, Katie Bennett*, Rebecca
Dunn* and Justin Bousquin
Gulf Ecosystem Measurement and
Modeling Division
Gulf Breeze, Florida

Recreation and Resiliency for Long-term Community Recovery

Cities of Springfield, Parker, Mexico Beach, Marianna, Chattahoochee and Quincy, Florida

Pam Swingle, Cynthia Van Der Wiele, Vickie Tellis, Angie Billups, Bryan Hummel, Trip Boone and Dawn Taylor

U.S. Environmental Protection Agency, Region 4

Erin Riggs and Christy Ihlo, U.S. EPA, Environmental Finance Center

Louise Vaughn and Rua Mordecai U.S. Fish and Wildlife Service

Alisa Wilson, Catherine Brown, Miranda Maupin and Marrisa Sperry Skeo Solutions

Janet Cakir, National Park Service

Ada Clark and Leah Fox, Emerald Coast Planning Council

Ben Chandler, Apalachee Regional Planning Council

Darryl Boudreau, Northwest Florida Water Management District

Justin Baldwin, Florida Environmental Protection Division

Regional Recreation Economy Alliance

Hurricane Michael

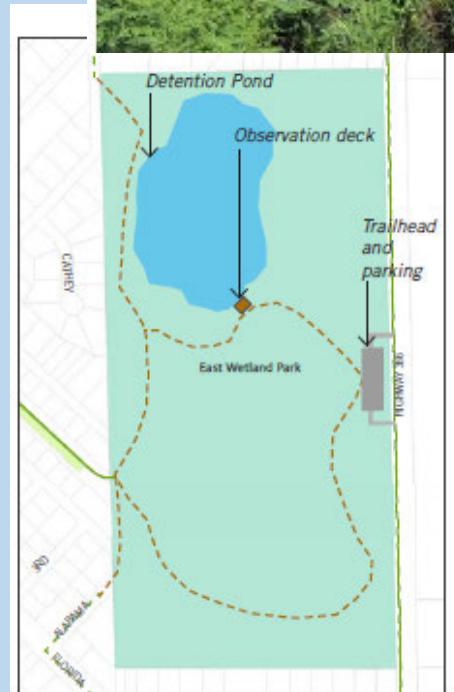


City of Mexico Beach

Recovery and Resiliency Partnership



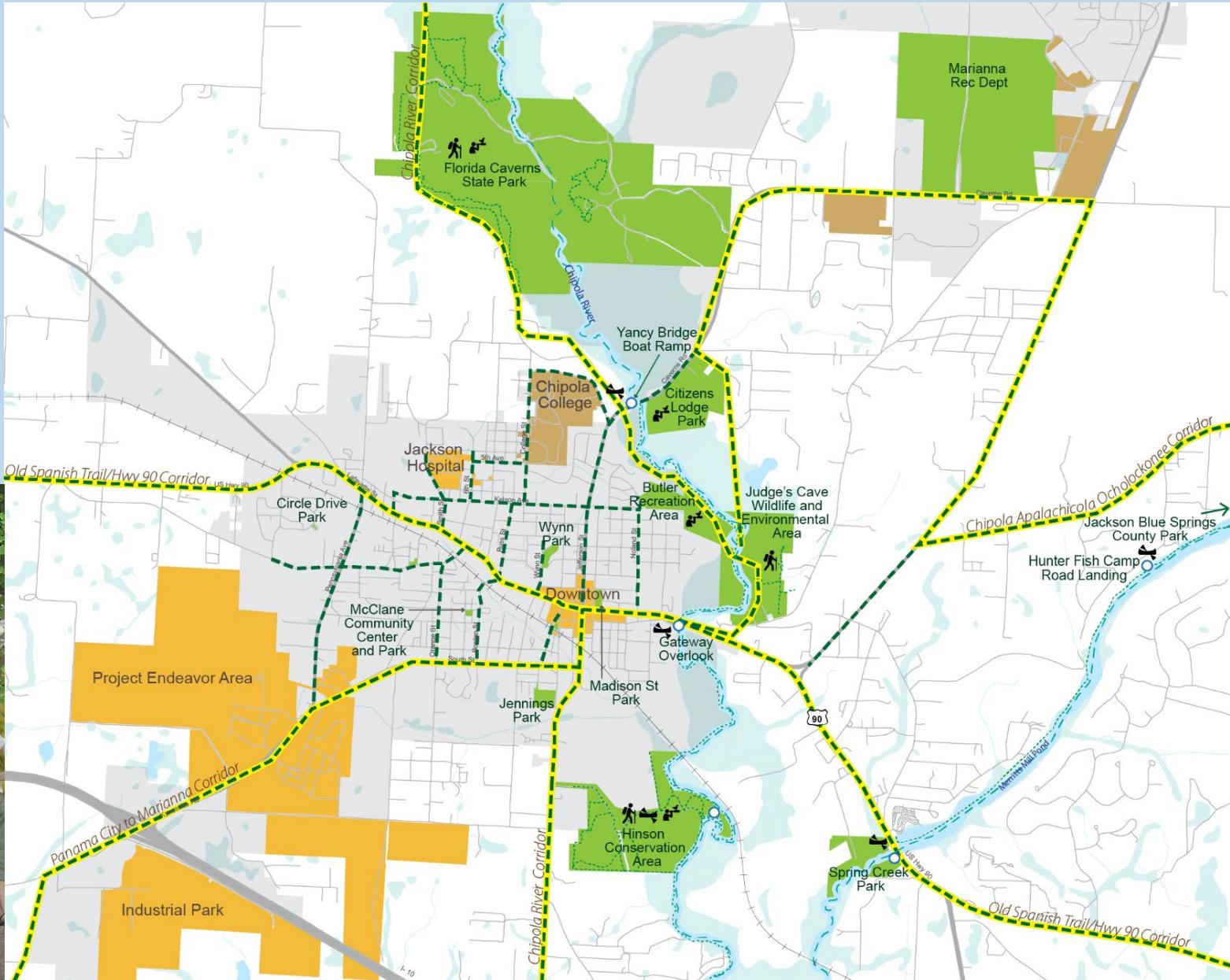
Linking Stormwater Management and Greenspaces for Economic Resiliency



City-Scale Assets and Connectivity

City-scale approach:

- Identify citywide pedestrian and bike connections to natural, cultural and recreational assets
- Prioritize key areas for investments/improvements



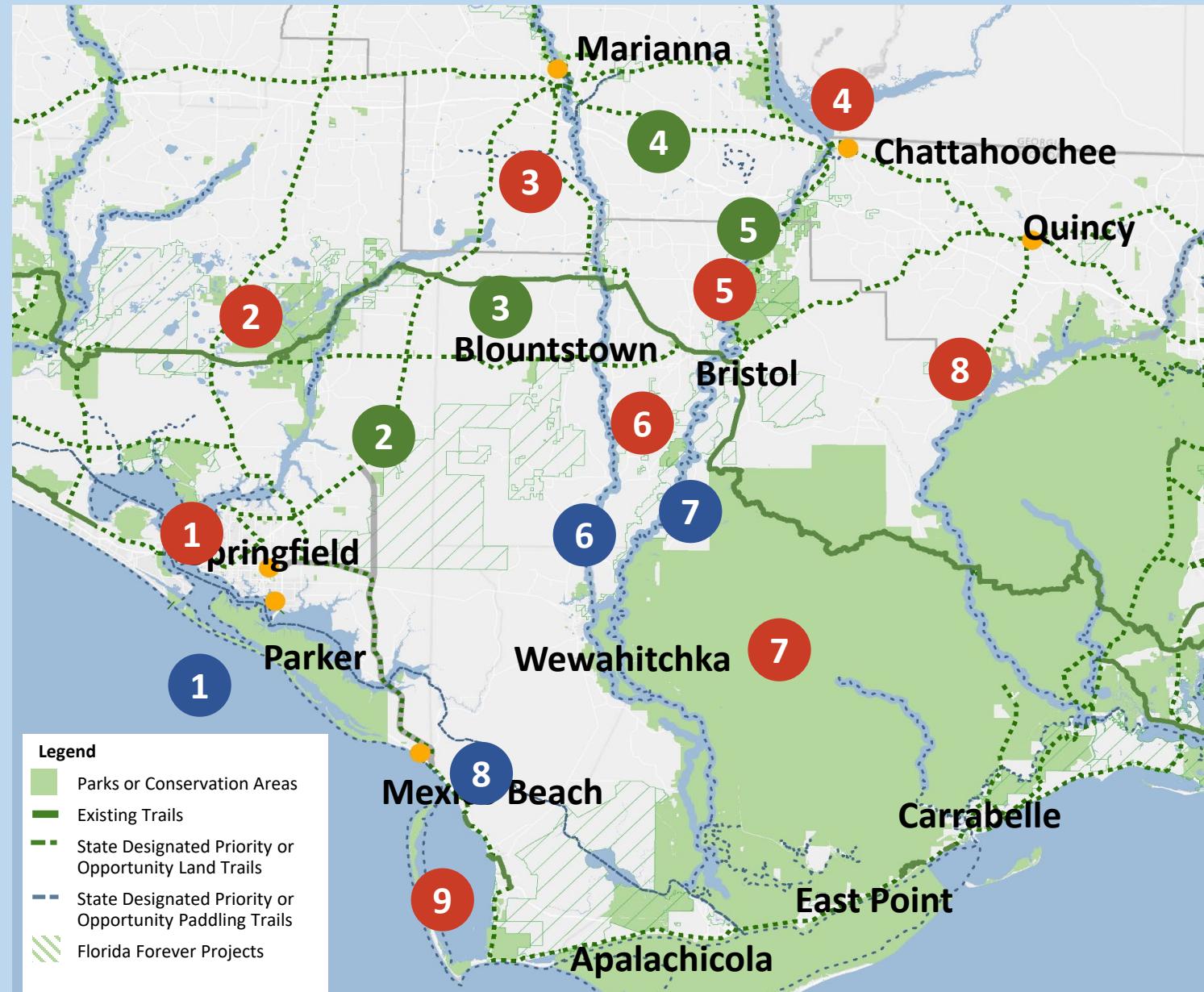
Regional Recreation Economy Assets

Regional natural area resource assets:

1. St. Andrews Bay and Estuary
2. Econfina Creek Recreation Area
3. Chipola River
4. Lake Seminole
5. Torreya State Park
6. Apalachicola River
7. Apalachicola National Forest
8. Lake Talquin State Forest
9. St. Joseph Bay and Estuary

Regional land trails and blueway corridors:

1. Florida Circumnavigational Saltwater Paddling Trail
2. Panama City to Marianna Corridor
3. Florida National Scenic Trail
4. Old Spanish Trail/HWY 90 Corridor
5. Chattahoochee to Bristol Trail
6. Chipola River State Paddling Trail
7. Apalachicola State Paddling Trail
8. Panhandle Intra Coastal Waterway Paddling Trail



Regional Recreation Economy Alliance

**THE FLORIDA PANHANDLE
REGIONAL RECREATION ECONOMY**
BUILDING AN ALLIANCE FOR LONG-TERM
RESILIENCE AND ECONOMIC RECOVERY



FINAL SUMMIT REPORT 2021

Goals to Support Regional Recreation Alliance

Trails



Develop the regional trail system.

[View More](#)

Land



Restore and protect landscapes.

[View More](#)

Water



Enhance rivers, lakes and bays.

[View More](#)

Culture



Celebrate cultural resources.

[View More](#)

Economic



Support cities in recovery.

[View More](#)

Explore

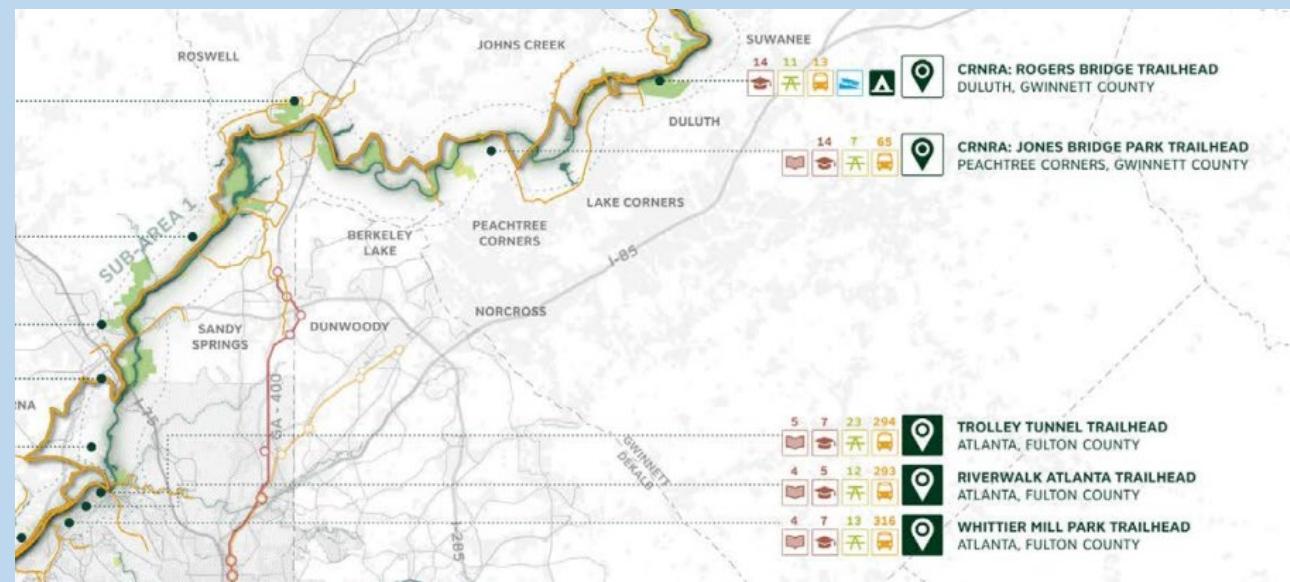
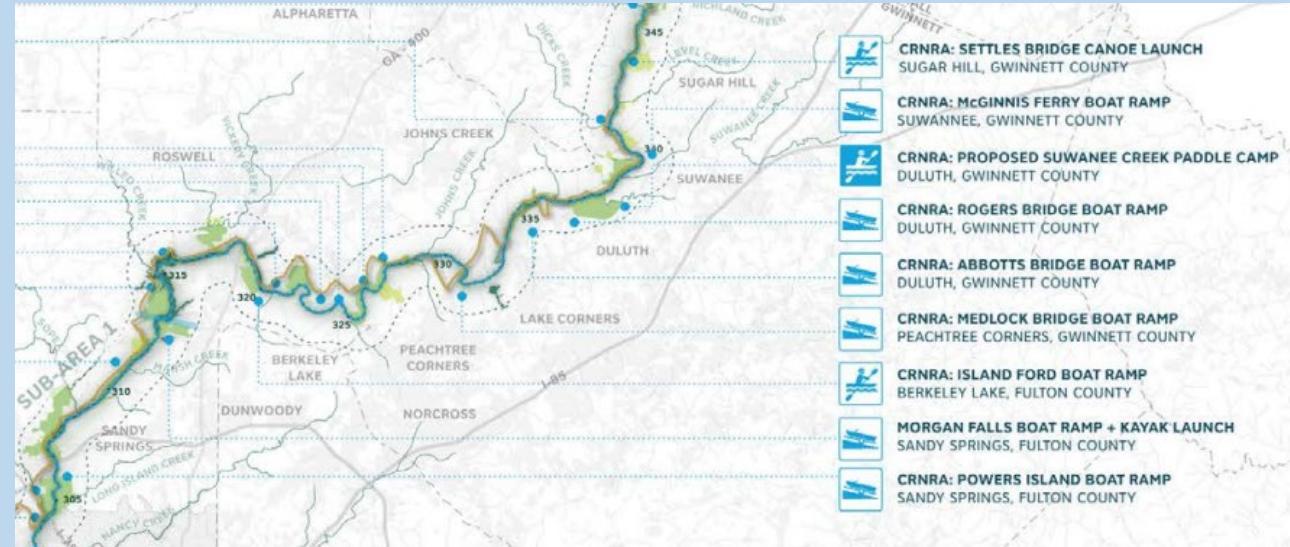
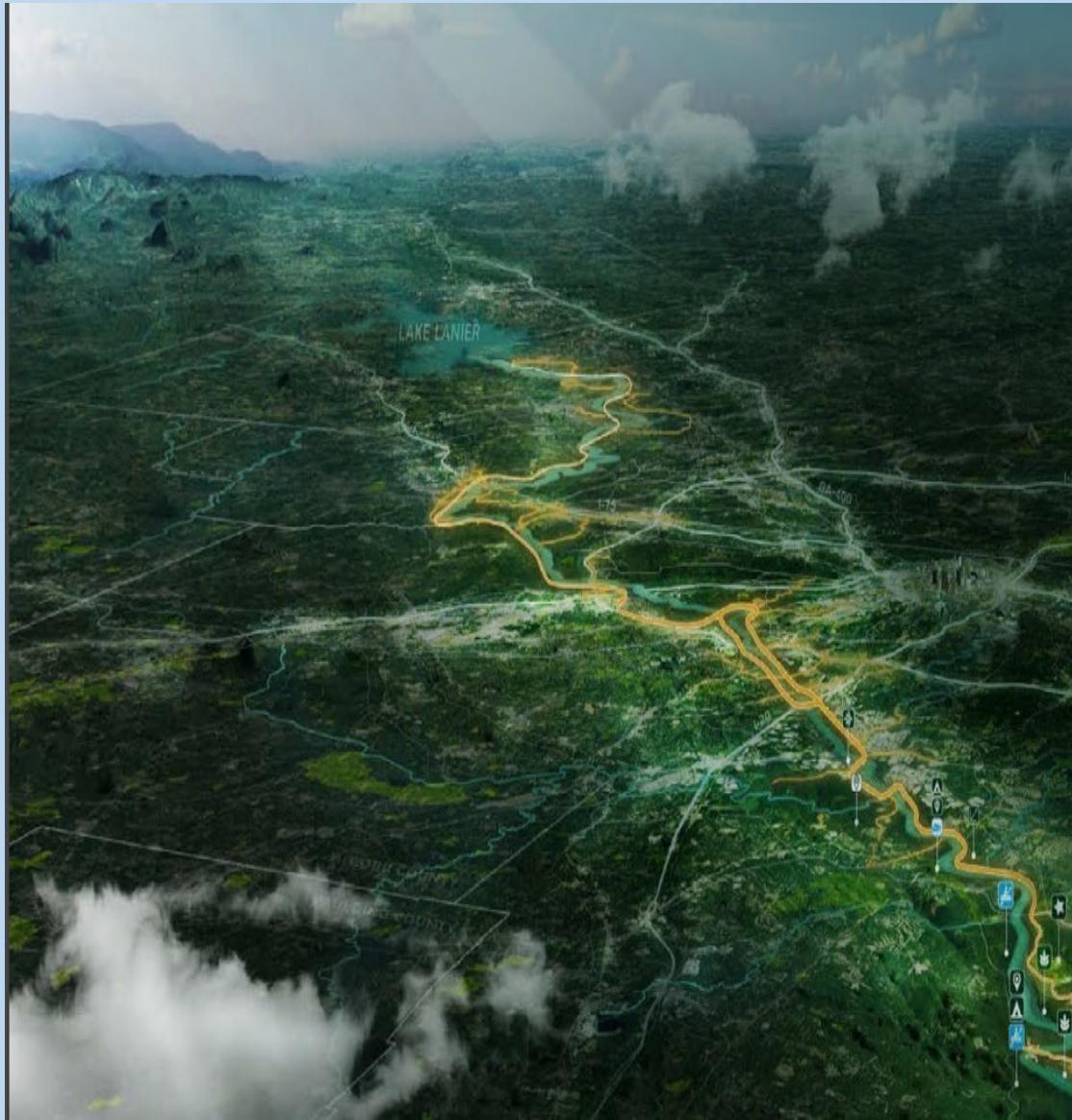


Promote regional recreation.

[View More](#)

Website: <http://www.rrealliance.skeo.com/>

Recreational Prospectus Capacity Support



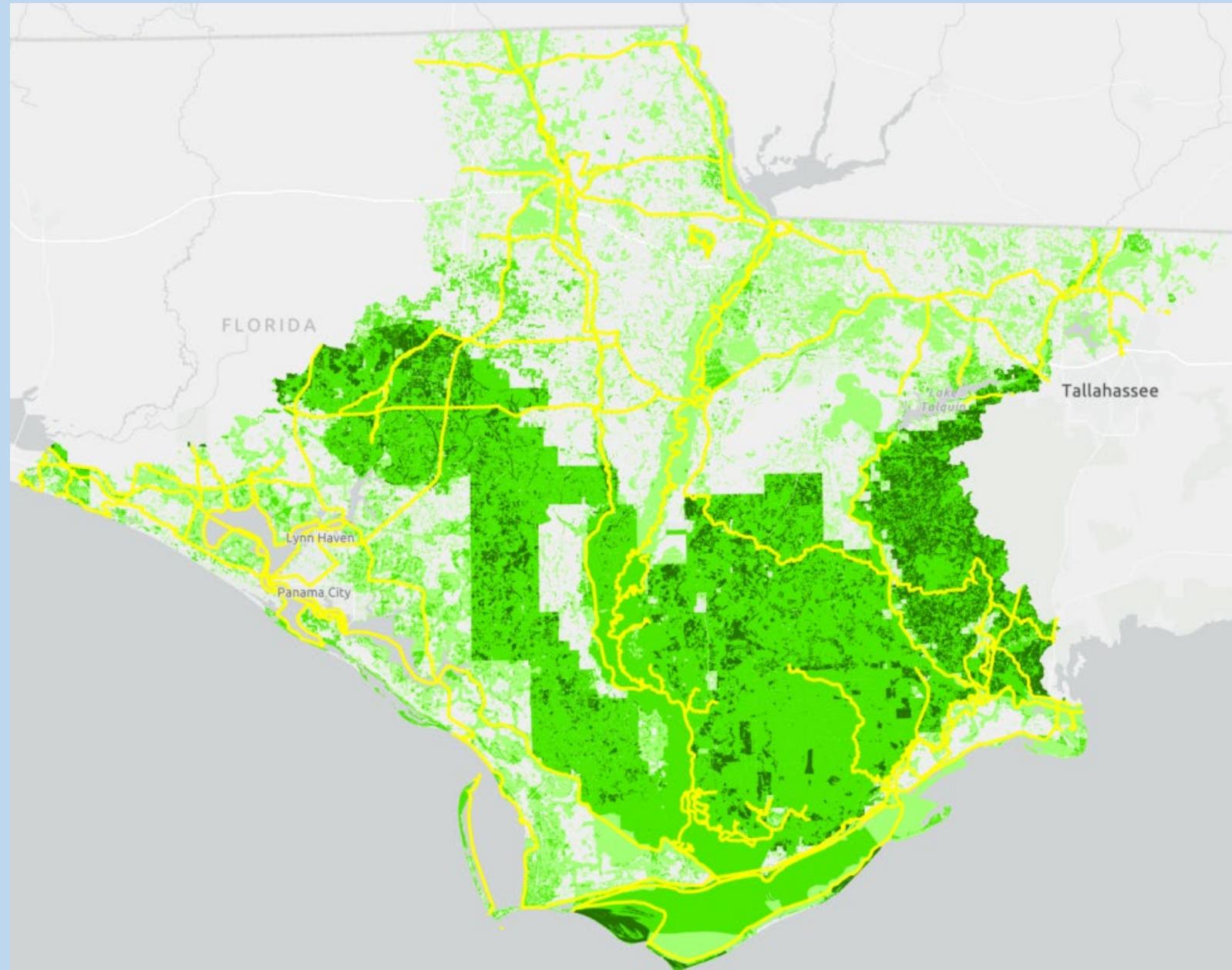
Critical Ecosystems and Recreational Trail System

Ecosystem Base

- Florida Ecological Greenways Network
- Southeast Conservation Adaptation Strategy
- Natural Community Priorities

Trail Buffer

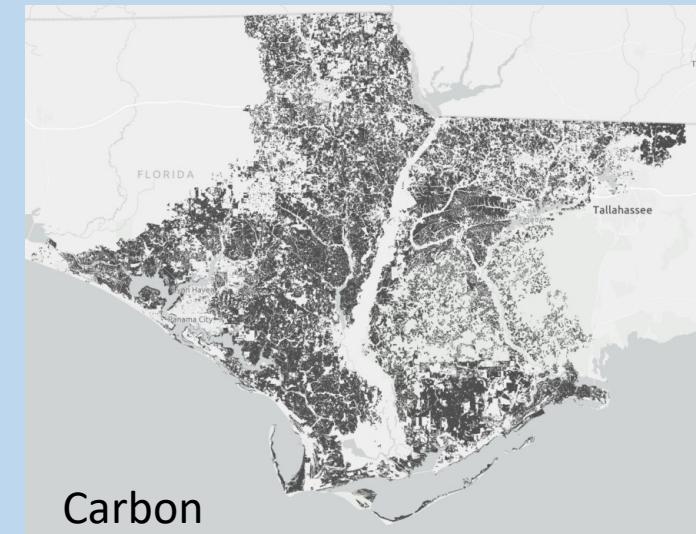
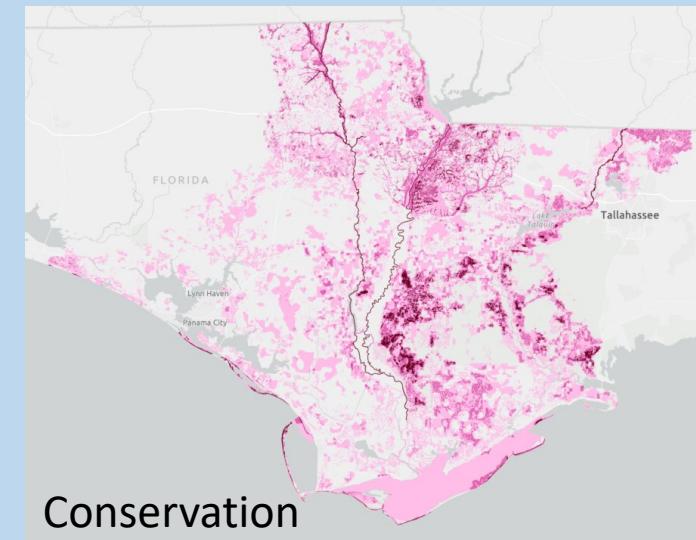
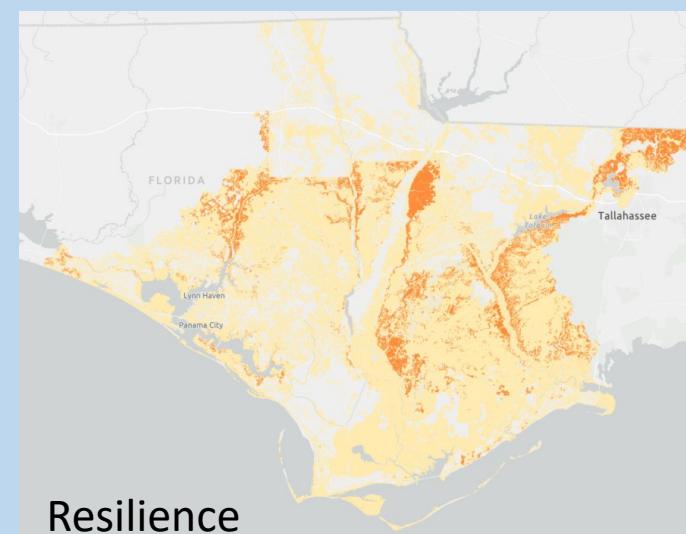
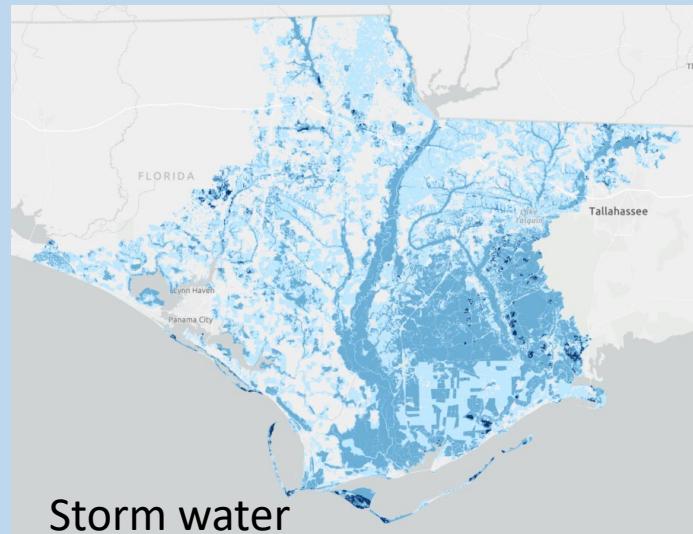
- Priority Land Trails
- Opportunity Land Trails
- Priority Paddle Trails
- Opportunity Paddle Trails



Mitigation and Banking Priority Area Identification

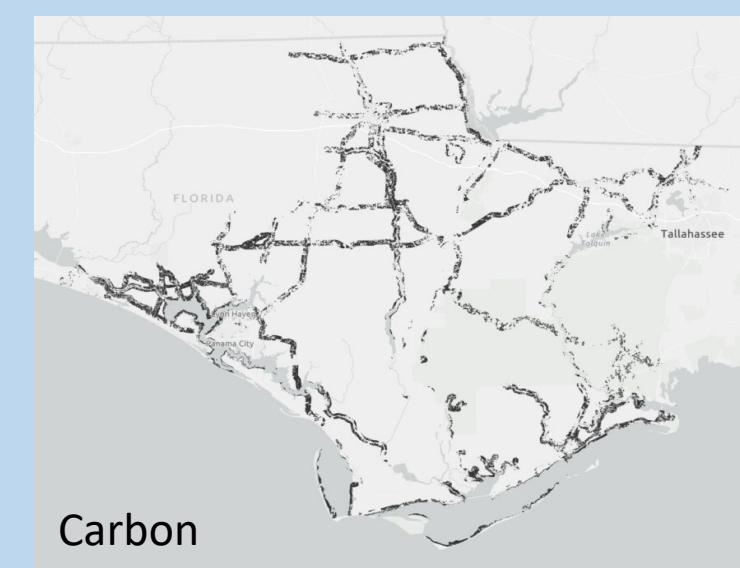
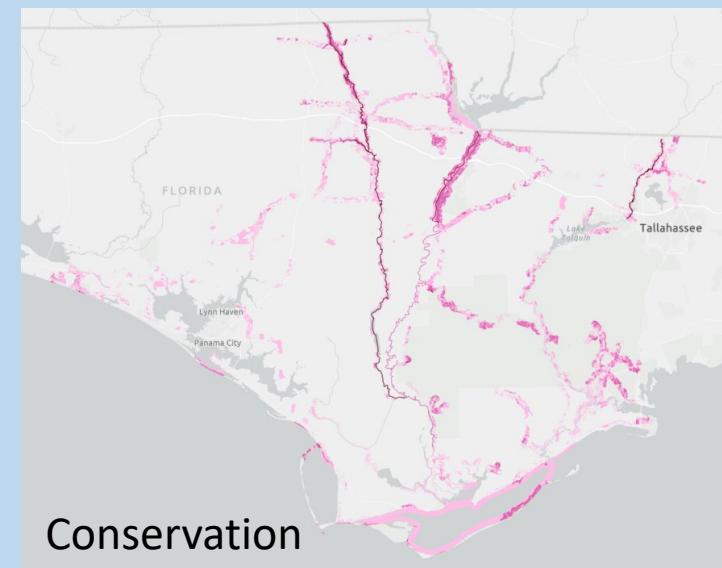
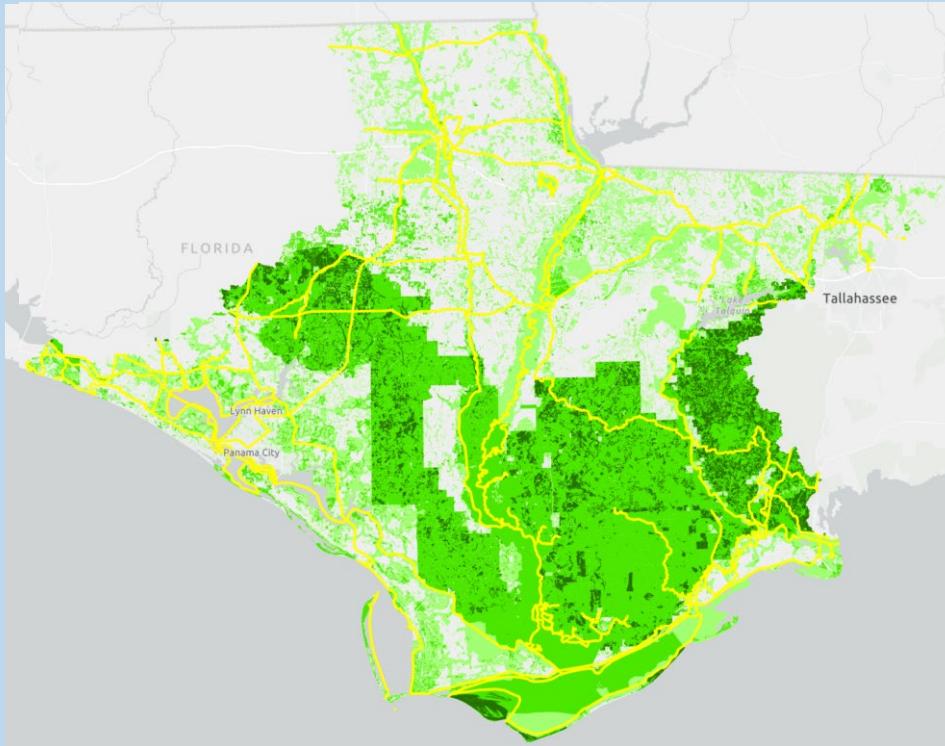
Datasets

Storm water	Resilience	Conservation	Carbon
Water Quantity <ul style="list-style-type: none">FloodplainRecharge AreasIntact Cores	<ul style="list-style-type: none">The Nature Conservancy AquaticThe Nature Conservancy TerrestrialFederal Emergency Management Agency Flood Composite	Threatened and Endangered <ul style="list-style-type: none">T&E LinearT&E PolygonSpecies RichnessLongleaf Species HabitatStrategic Habitat Conservation AreasPollinator Richness	Agriculture <ul style="list-style-type: none">Crop Lands Silviculture <ul style="list-style-type: none">Pine Plantations Blue Carbon <ul style="list-style-type: none">SeagrassTidal Marsh
Water Quality <ul style="list-style-type: none">Riparian Buffer303d & TMDLsOyster BedsWetlands			

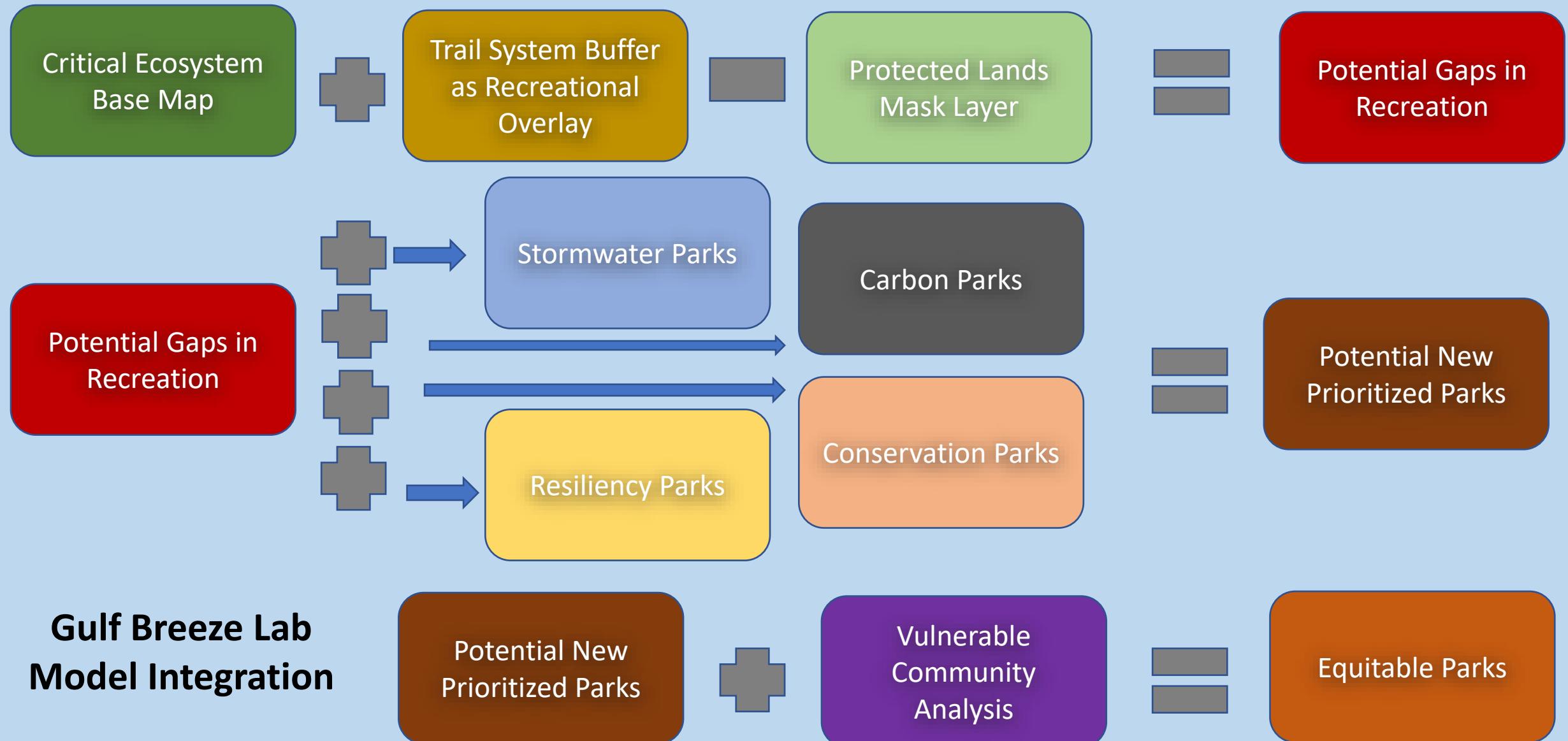


Potential New Parks for Private/Public Partnership

Ecological Priority Lands and Florida Trail Systems



Model Design



Equitable Community Access Analysis

**Kyle Buck, Katie Bennett, Rebecca Dunn, Justin Bousquin
Gulf Ecosystem Measurement and Modeling Division
Gulf Breeze, FL**



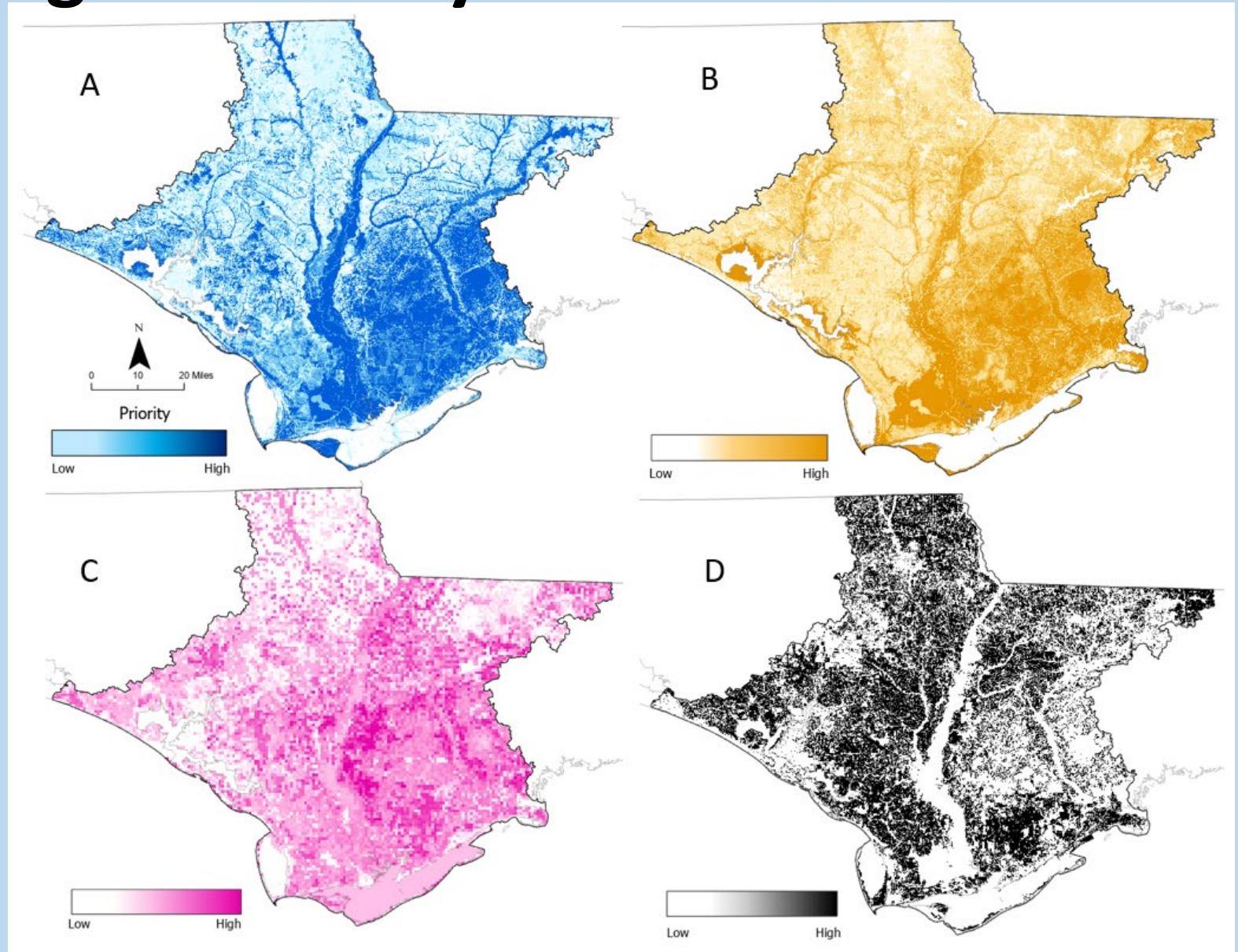
The views expressed in this presentation are those of the author and do not necessarily represent the views or policies of the U.S. Environmental Protection Agency. Any mention of trade names, products, or services does not imply an endorsement by the U.S. Government or the U.S. Environmental Protection Agency. The EPA does not endorse any commercial products, services or enterprises.

Ecological Priority Index

4 credit park categories:

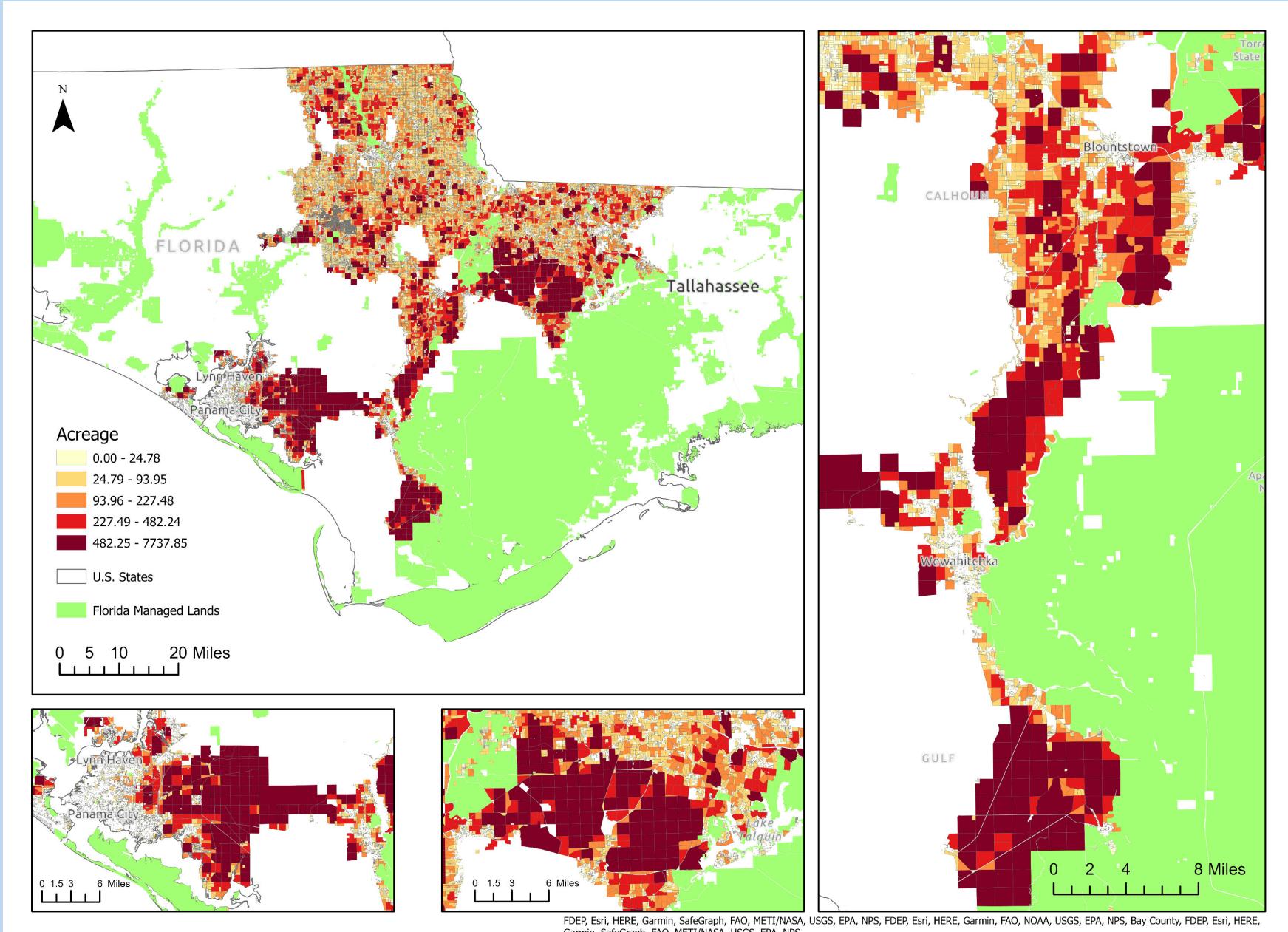
- A) stormwater,
- B) resilience,
- C) conservation, and
- D) carbon.

These credit park categories were chosen to prioritize areas of significant ecosystem services and conservation importance.



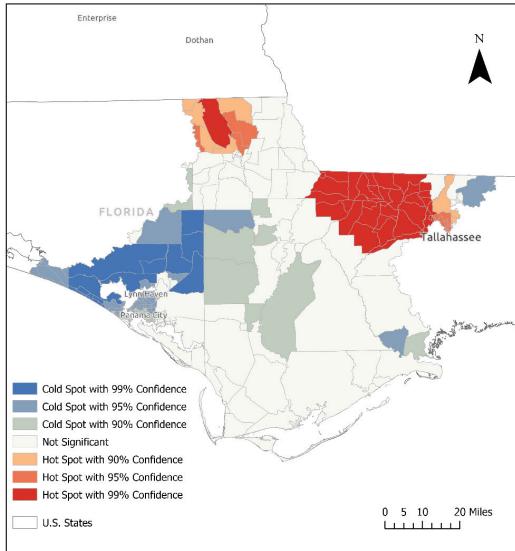
Available Parcels Acreage and Florida Managed Lands

- Available unprotected parcels were symbolized by acreage to visualize the locations of larger parcels. In this map.
- Opportunities for corridor connectivity between potential recreational prospects and existing protected land.

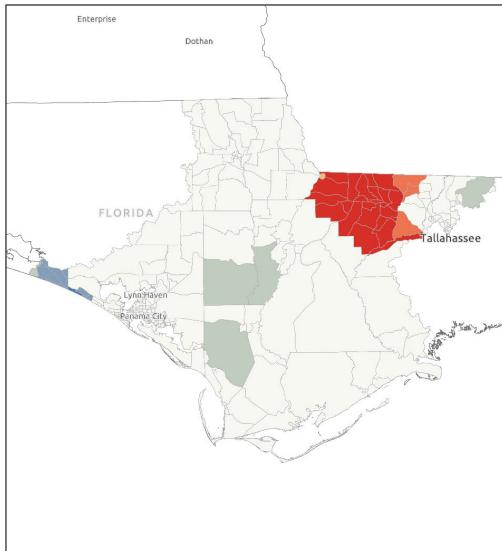


Social Vulnerability Hotspots by Census Block Group

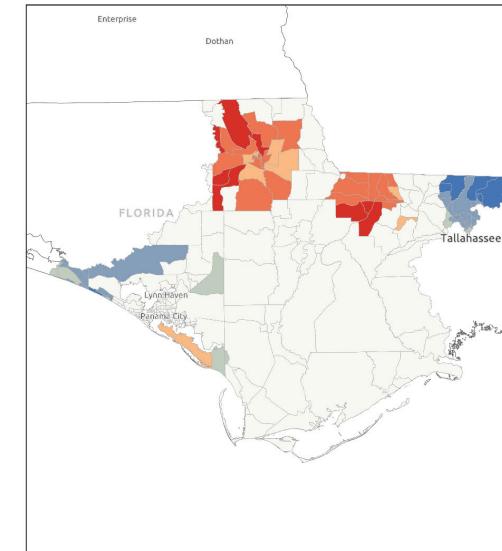
Nonwhite (%)



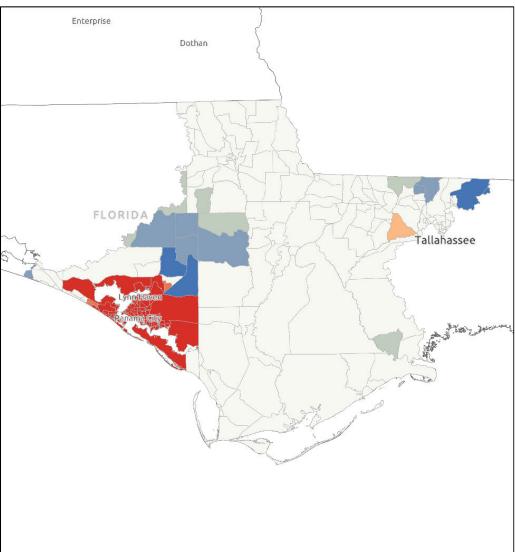
Single Parent Households (%)



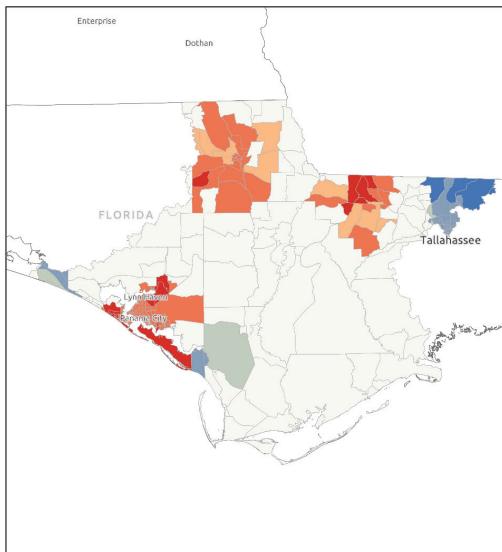
Poverty (%)



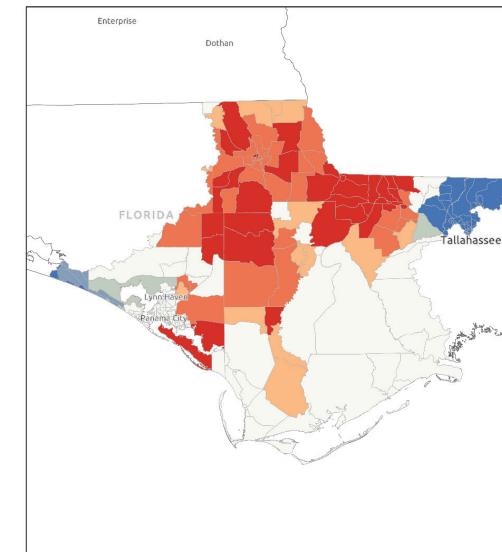
Population Renters (%)



No Vehicle (%)



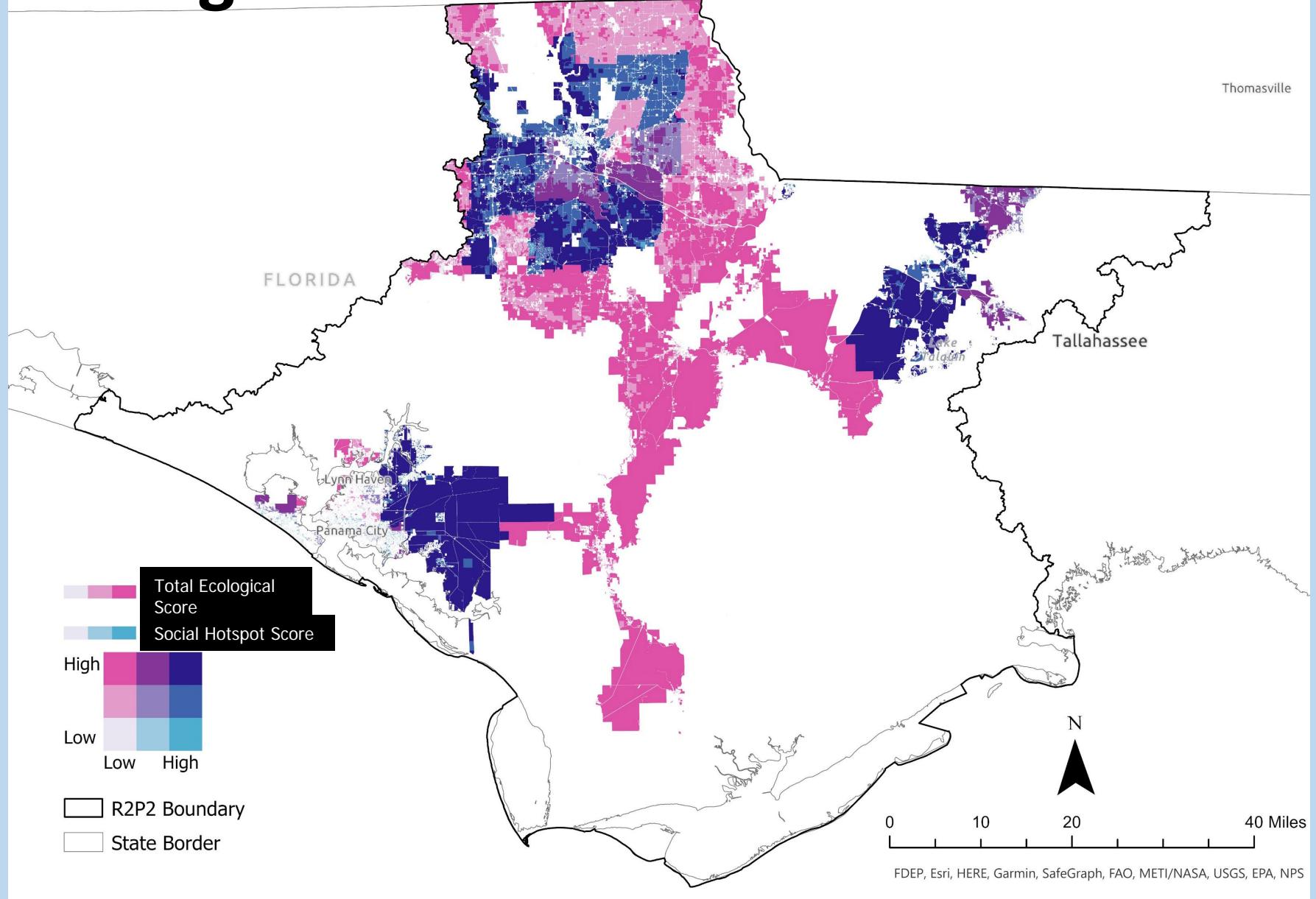
No College Degree (%)

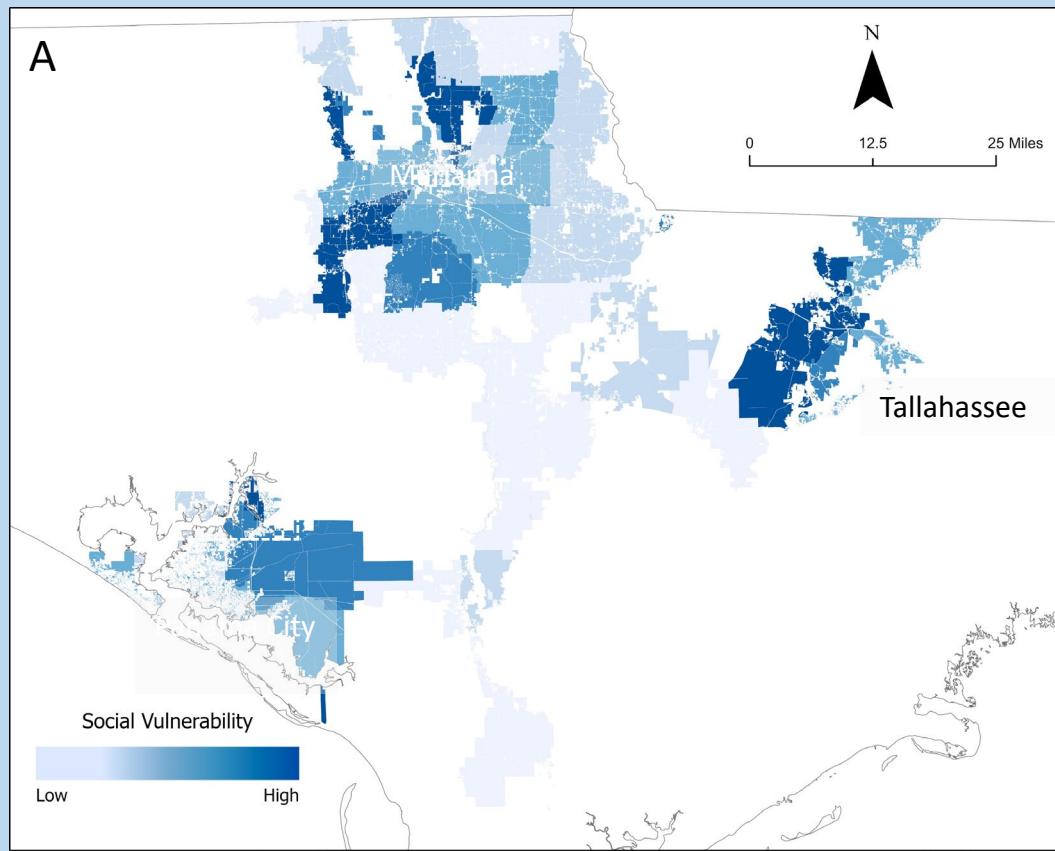


Social and Ecological – Potential Recreation

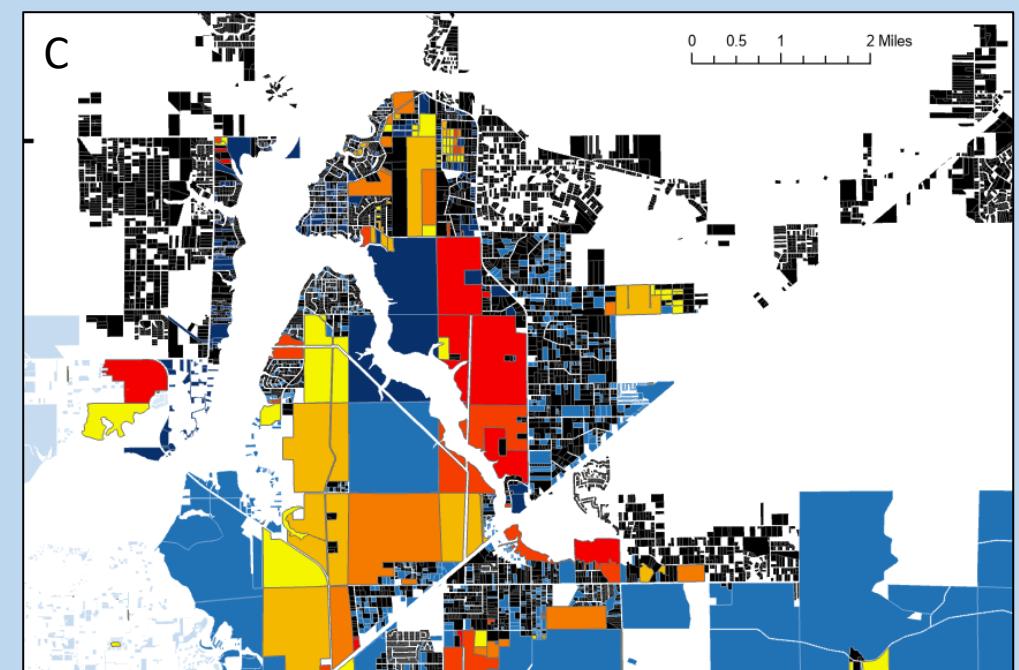
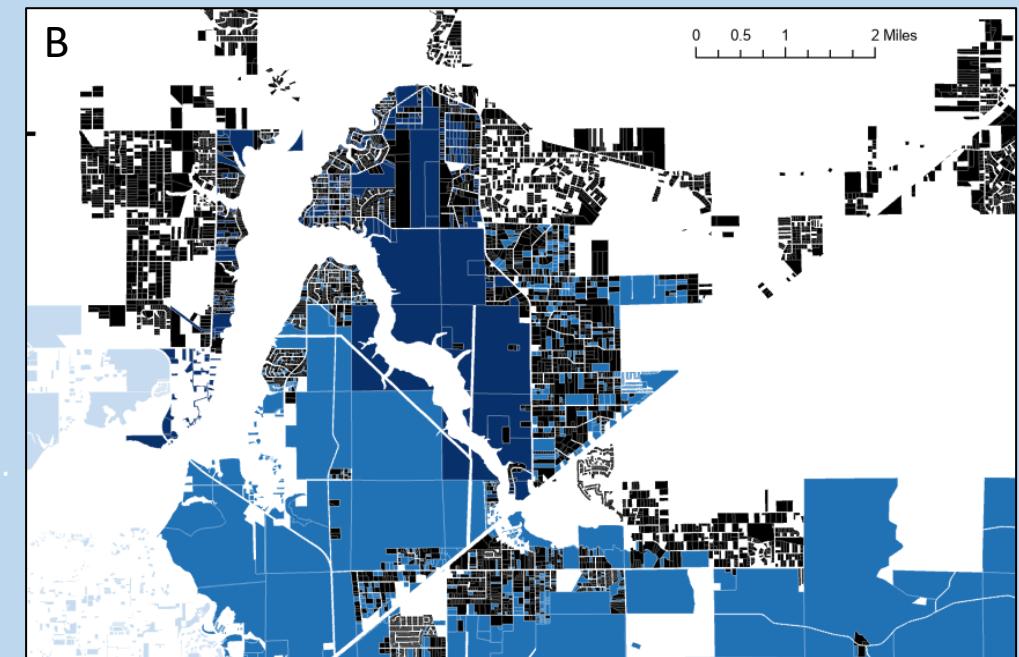
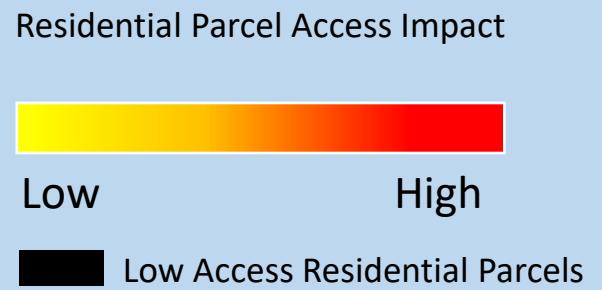
Social Hotspot Score represents areas with significant outdoor recreational opportunities

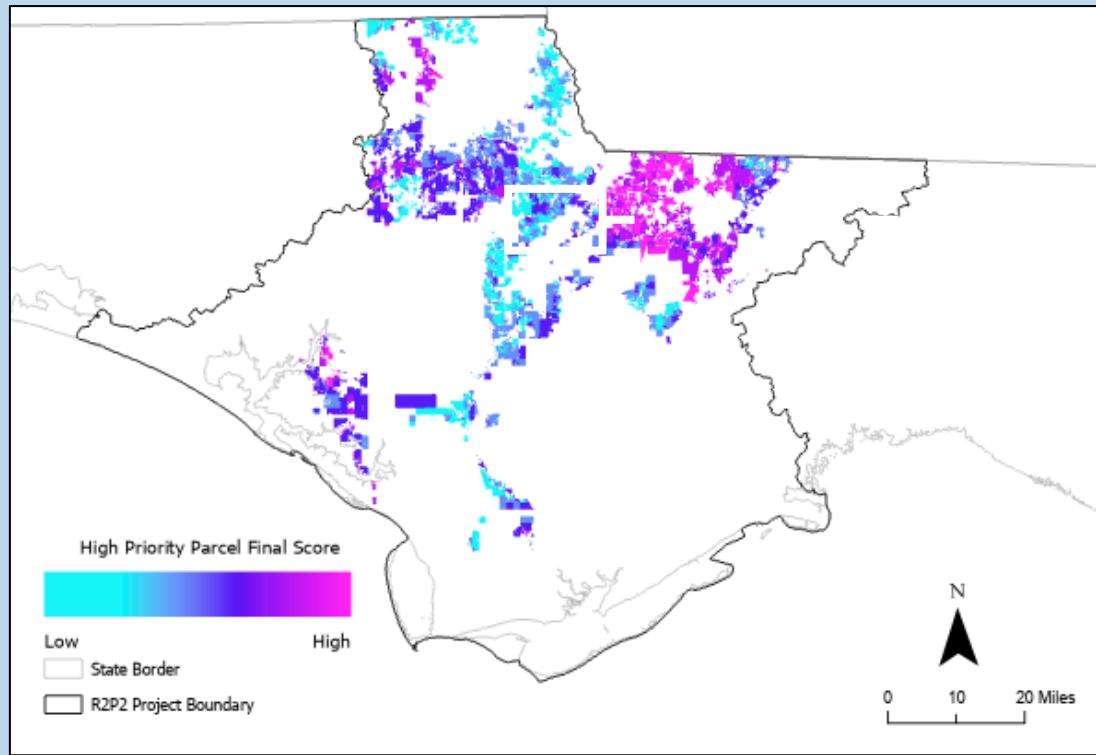
Ecological Score represents areas where available parcels exist with high ecological significance.





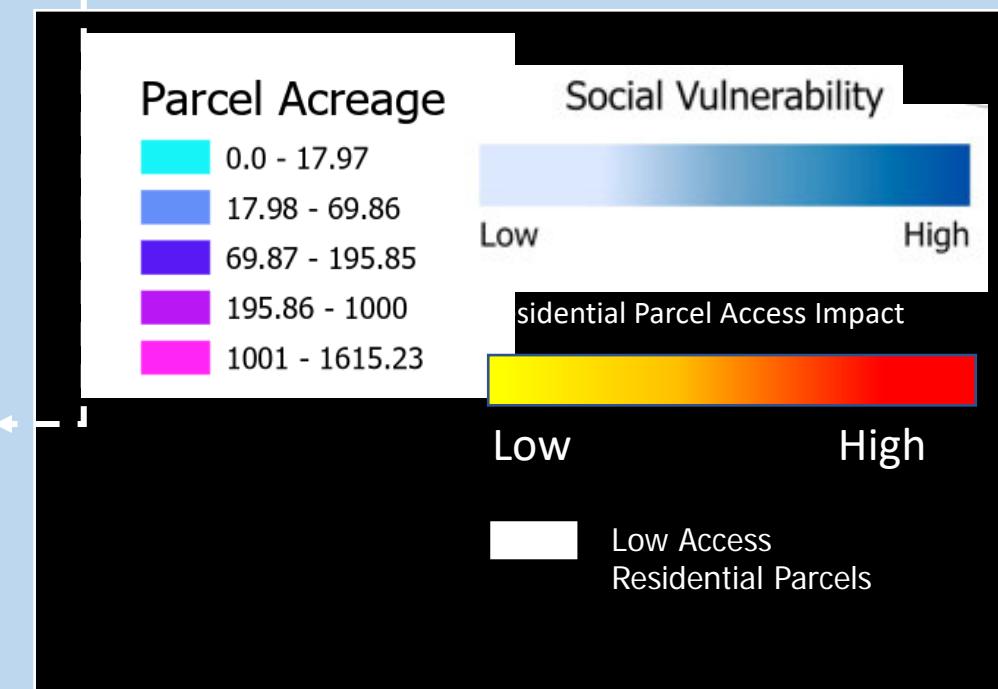
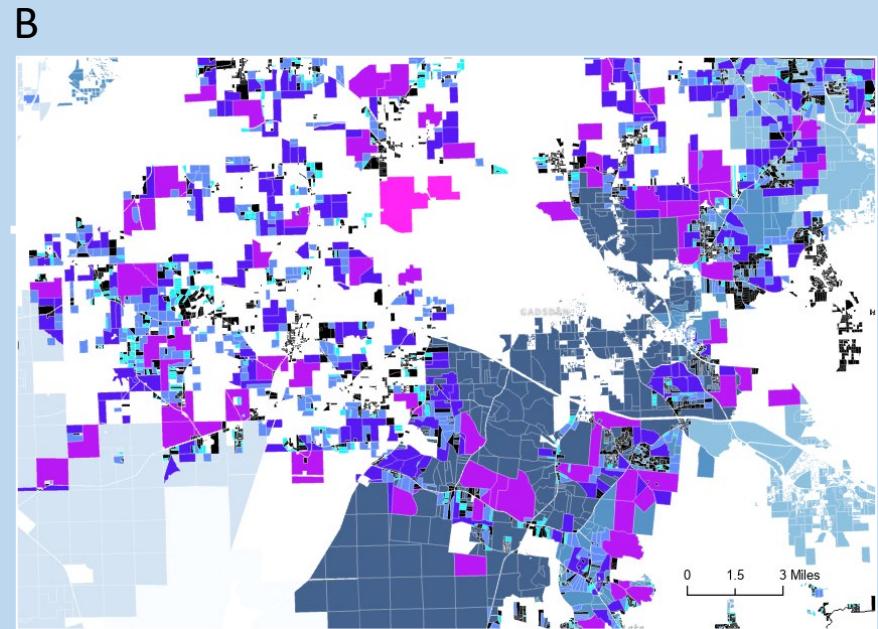
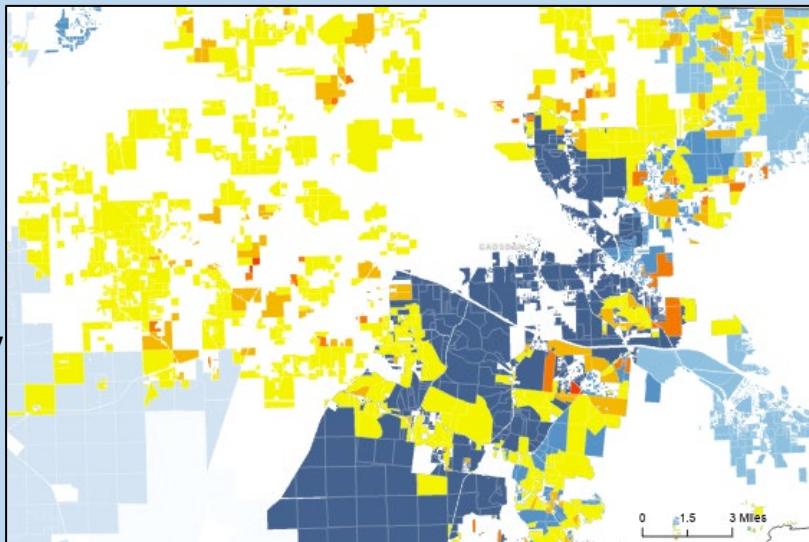
In socially vulnerable communities A), Network Analysis was used to identify residential parcels with low access to existing parks and recreation B). Additionally, this analysis was used to create a score that assesses the residential access impact of potential recreational opportunities C).

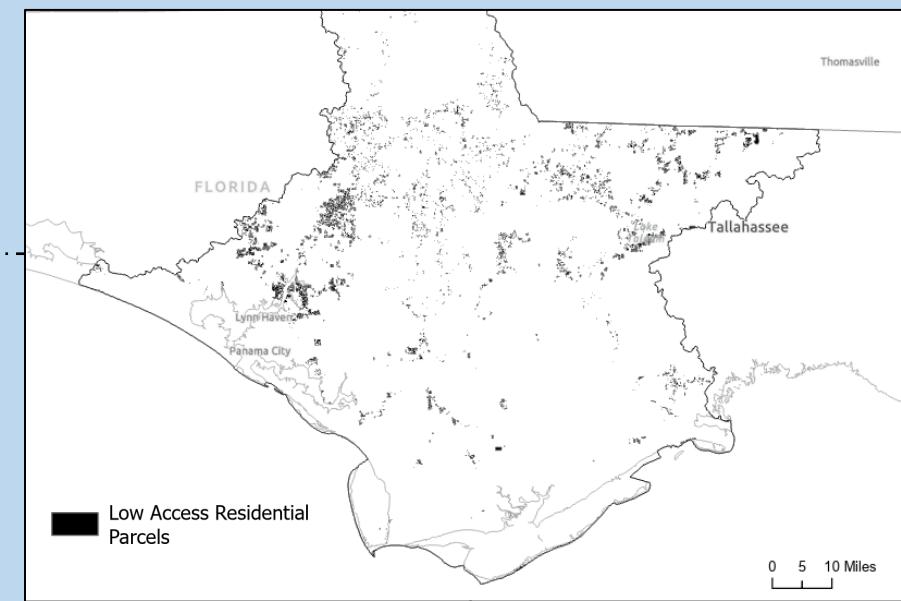
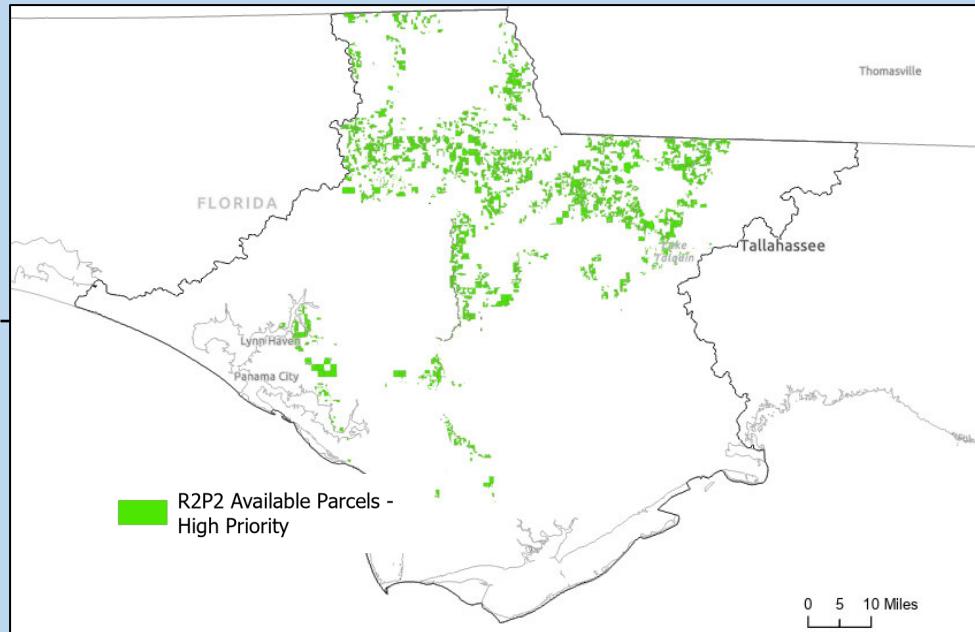




The ecological priority score, social hotspot analysis results, and access impact score were used to create a final priority score for possible recreational opportunity parcels A).

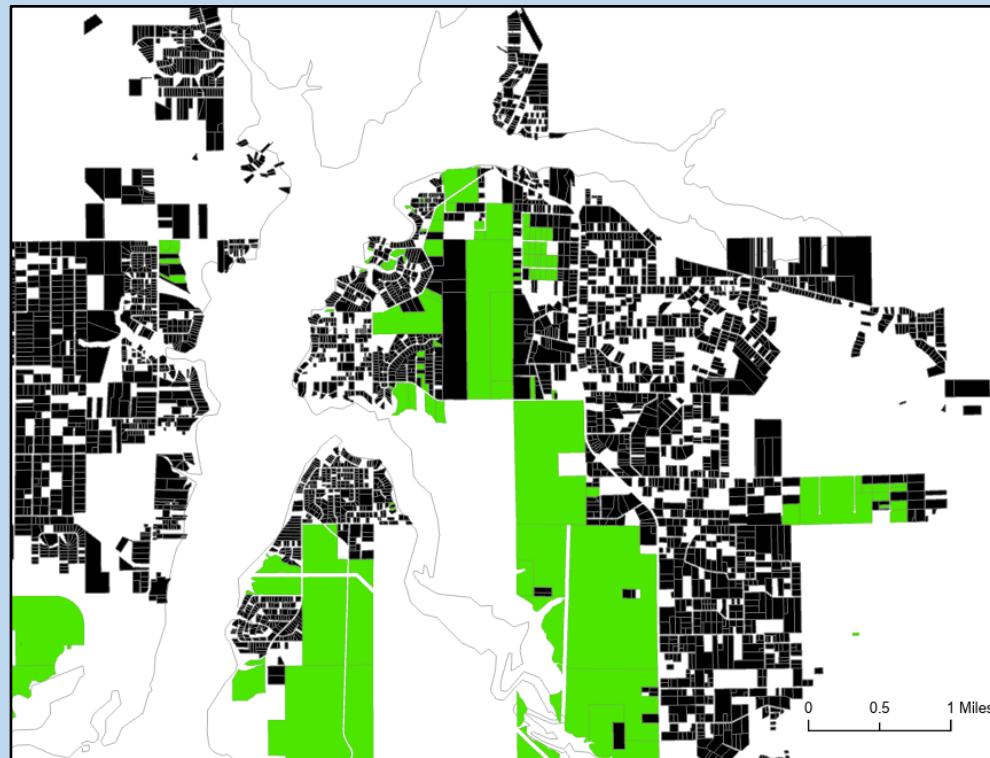
Parcel acreage B) and parcel access impact C) can be used to further select parcels for possible recreational opportunities that may benefit potentially vulnerable communities.





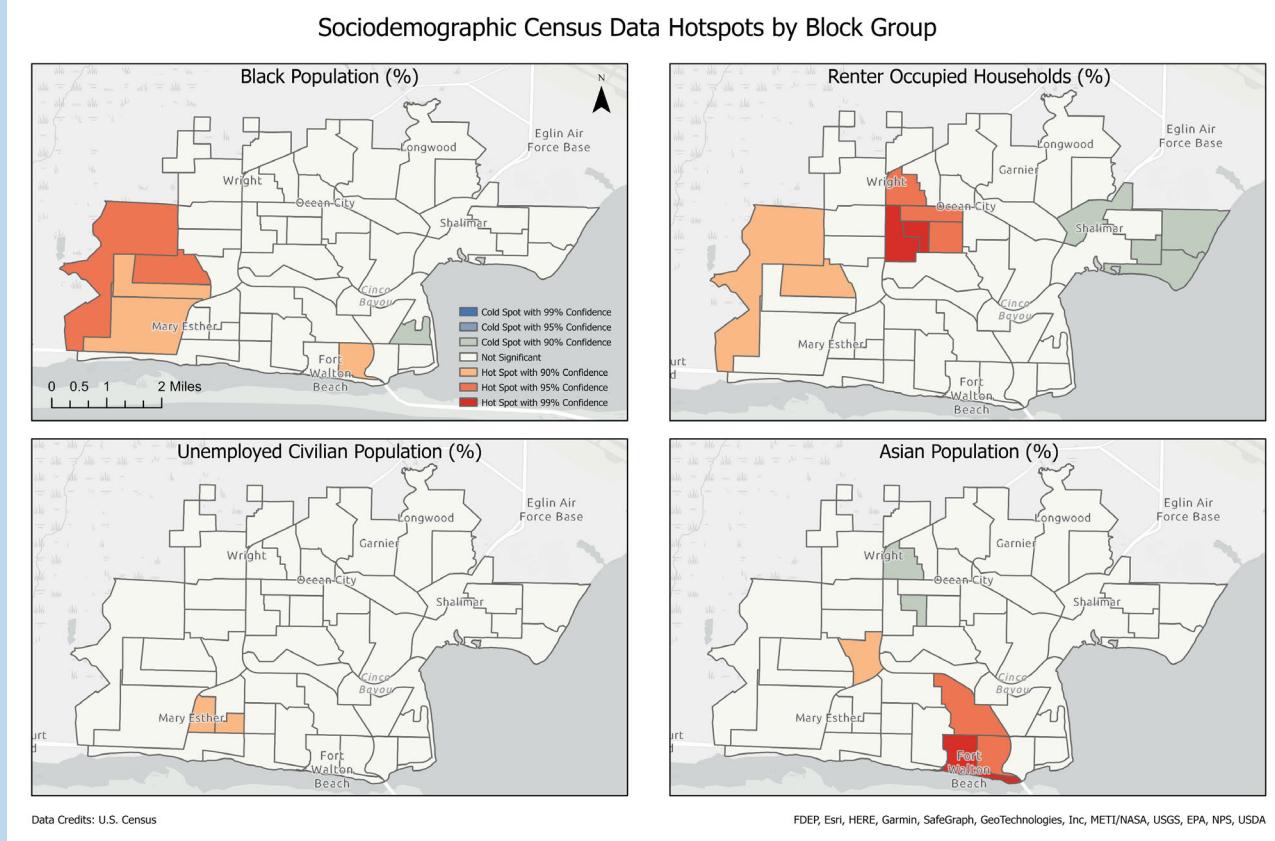
C

Area acres	Residential_Impact Score	Environmental Score	Social Score	Final Score
37.220616	0.005115	0.14008	0.428571	0.573766
57.190627	0.007673	0.118192	0.428571	0.554436
660.319925	0.099744	0.106065	0.428571	0.634381
3.153426	0.283887	0.161209	0.5	0.945097
2.900417	0.002558	0.237664	0.5	0.740222
2.870907	0.017903	0.104969	0.5	0.622872
3.296781	0.475703	0.065371	0.5	1.041075
4.781183	0.585678	0.057395	0.5	1.143072
0.641509	0.314578	0.175556	0.5	0.990134
0.884127	0.033248	0.061661	0.5	0.594909
2.949717	0.051151	0.090868	0.5	0.642019
4.338953	0.084399	0.059201	0.5	0.6436
31.434854	0.017903	0.121169	0.5	0.639071

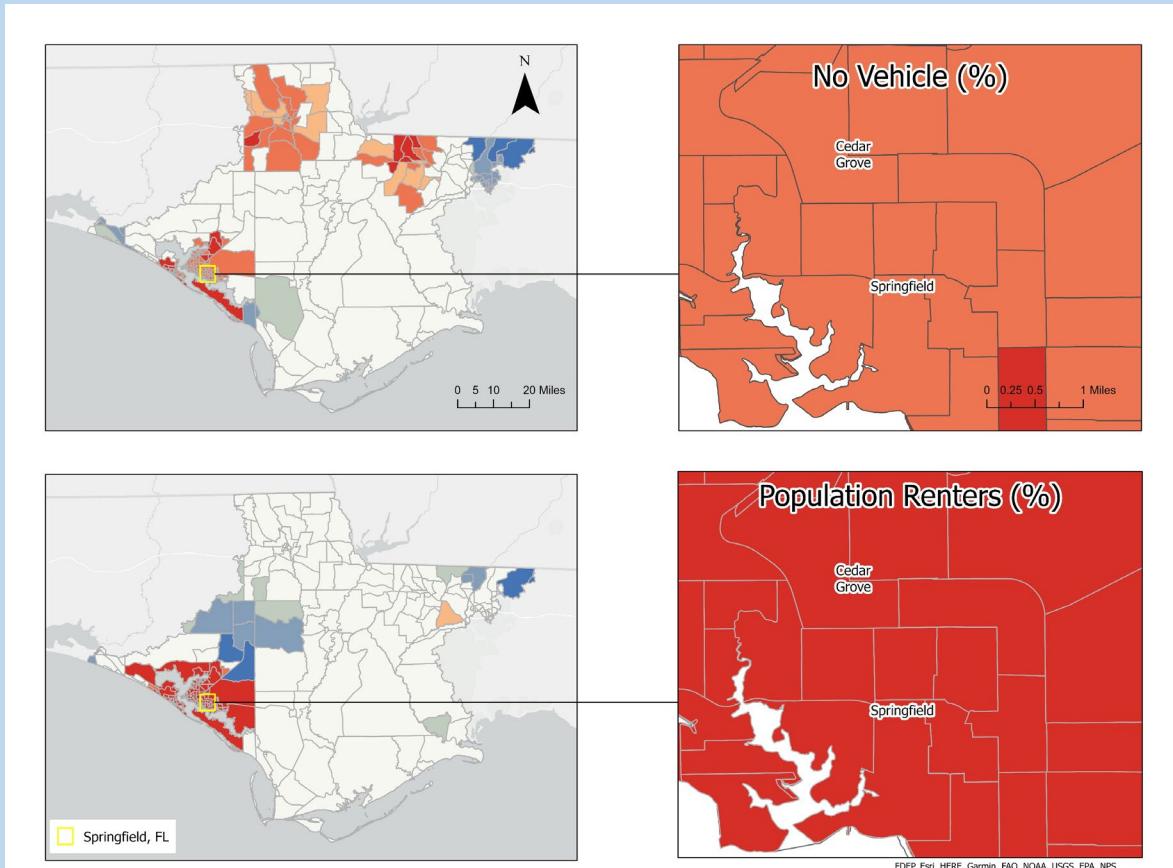


Research Applications – Grant Proposals

Cinco Bayou / Gap Creek Watershed



R2P2 Area: Springfield



Summary

- Increased climate hazards, development, and limited resources drive need for identification and prioritization of lands for restoration or conservation
- Leverage existing community assets and ecological capacities in a regional network
- Collect data to summarize current ecological and social conditions along with locations/extents.
- Create prioritization scales using refined data
- Identify existing access and characteristics of high vulnerability populations
- Create final prioritization matrix that incorporates locations and characteristics of the natural and social landscape to quantify highest impact parcels aligned with regional goals.



Next Third Thursday
Web Forum

11-17-2022

10:00 am

Rua Mordecai

Southeast
Conservation
Adaptation Strategy

secassoutheast.org

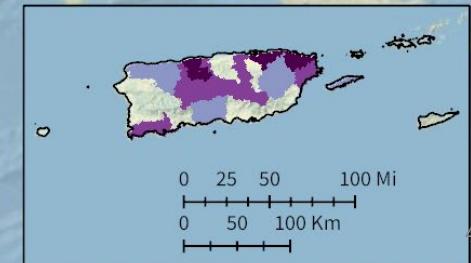
Southeast Conservation Blueprint 2022: Results from the new consistent approach for the Southeast

Priorities for a connected
network of lands and waters

- Highest priority
- High priority
- Medium priority
- Priority connections

0 150 300 Mi

0 150 300 Km

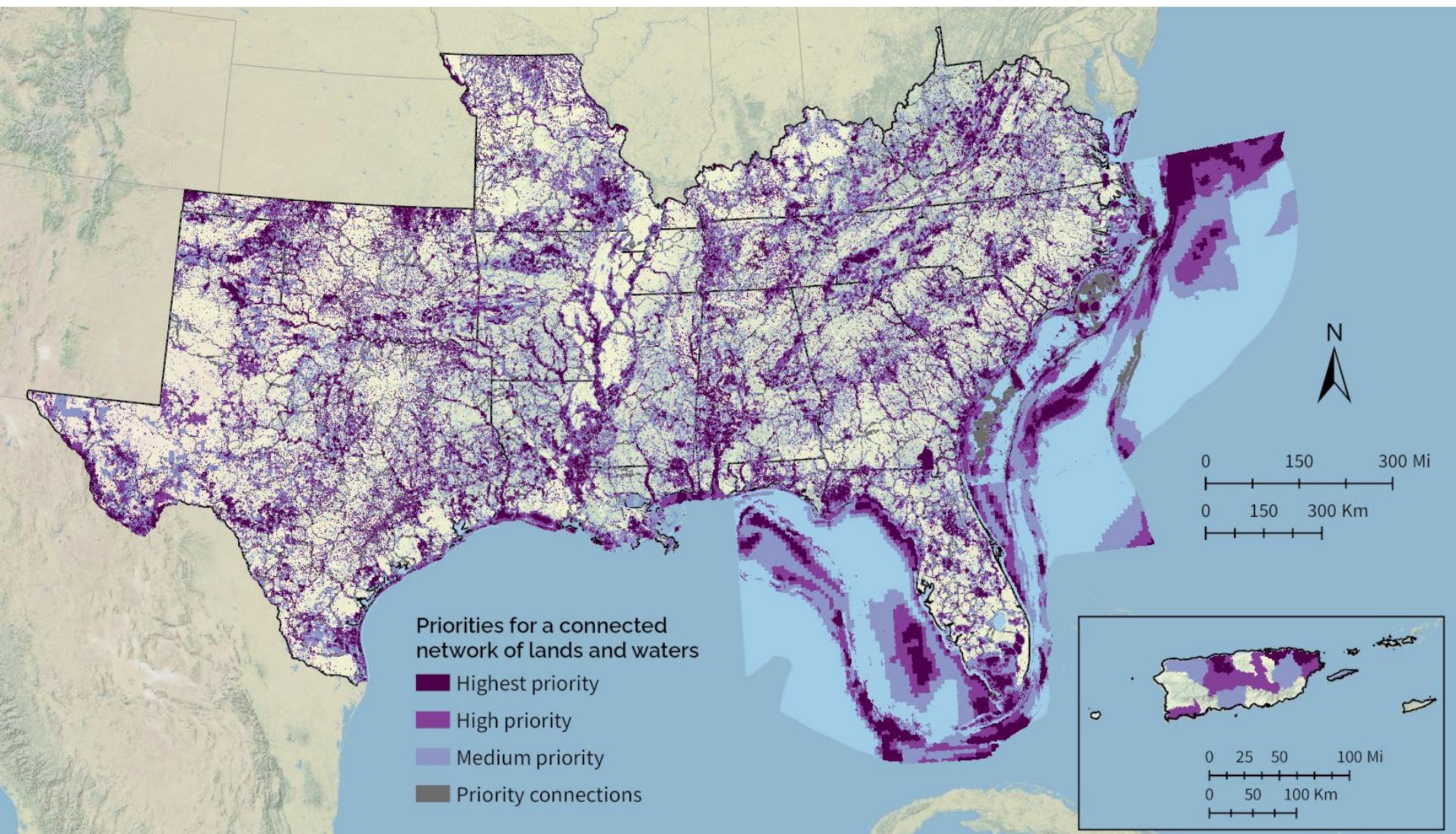


A photograph of a waterfall in a lush, green forest. The waterfall flows down several tiers of dark, mossy rocks, creating a misty spray at the bottom. The surrounding trees are dense and vibrant.

Staff updates

- Southeast Conservation Blueprint 2022 now available
- South Atlantic LCC website coming down soon

Southeast Conservation Blueprint 2022 now available



South Atlantic LCC website coming down soon



SOUTH ATLANTIC
LANDSCAPE CONSERVATION COOPERATIVE



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South Atlantic Landscape Conservation Cooperative

What can we do to sustain our lands, waters and cultural treasures today and for future generations? The South Atlantic Landscape Conservation Cooperative is a partnership that brings together federal, state and local organizations across six states to answer that critical question. Together, we're creating a blueprint for action.

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Events

Featured Posts



By Hilary Morris | September 16th, 2022

Southeast Conservation Blueprint 2022 on track for final release this fall

Shared from Hilary's blog post on the Southeast Conservation Adaptation Strategy (SECAS) website We're still on track to release Southeast Conservation Blueprint 2022 this fall. We're planning to make it available by late October in time for the annual conference of the Southeastern Association of Fish and Wildlife Agencies (SEAFWA). We're [...]

[Read More >](#)

How to get involved in SECAS

- Sign up for the SECAS newsletter

secassoutheast.org

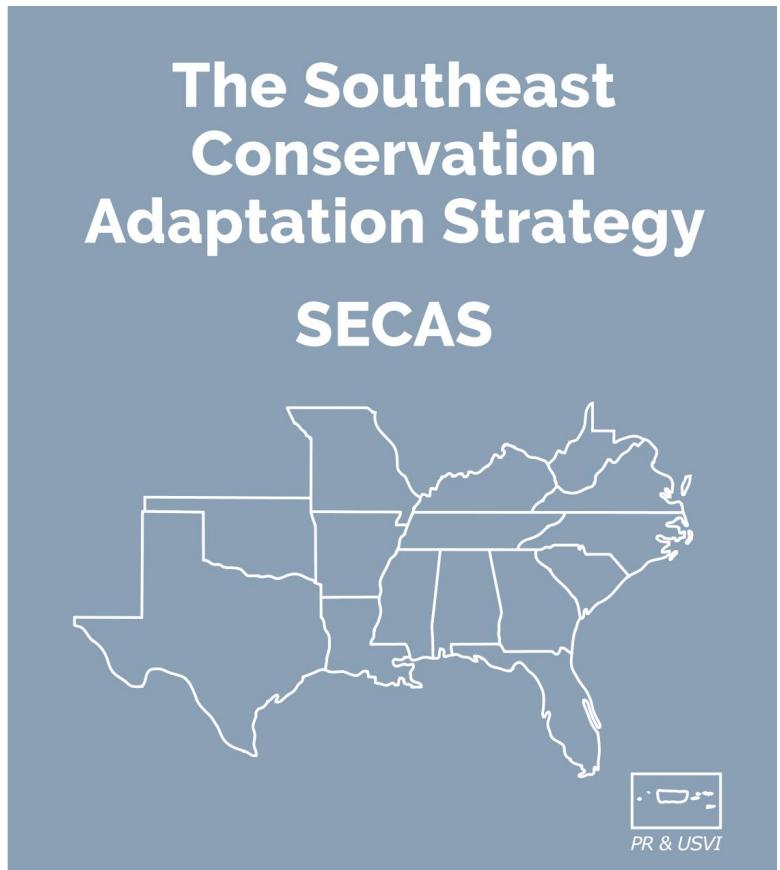
- Connect with SECAS staff or partners

secassoutheast.org/staff

secassoutheast.org/partners

- Explore the Southeast Conservation Blueprint

secassoutheast.org/blueprint



A photograph of a lighthouse at sunset or sunrise. The sky is filled with wispy clouds colored in shades of orange, yellow, and blue. The lighthouse is visible on the right side, standing tall against the horizon. In the foreground, there's a dark, textured area that looks like tall grass or brush. A large, solid dark blue rectangular box is overlaid on the left side of the image, containing the text "Questions?" in a white, sans-serif font.

Questions?