SUNS

SCALING UP NATURE-BASED SOLUTIONS

Building Capacity and Partnerships to Plan and Implement a Portfolio of Nature-Based Coastal Resilience Actions in Three Florida Panhandle Counties

The Nature Conservancy

USNA

Northeastern University

Northwest Florida Water Management District

Ice Breaker Activity

Panhandle Highlights

1. Turn on video (if you are able)
2. Share your name, organization, location
3. Chris & Anna Jane are planning a visit in January – what is one thing we should not miss?
4. Anna Jane will pass it on

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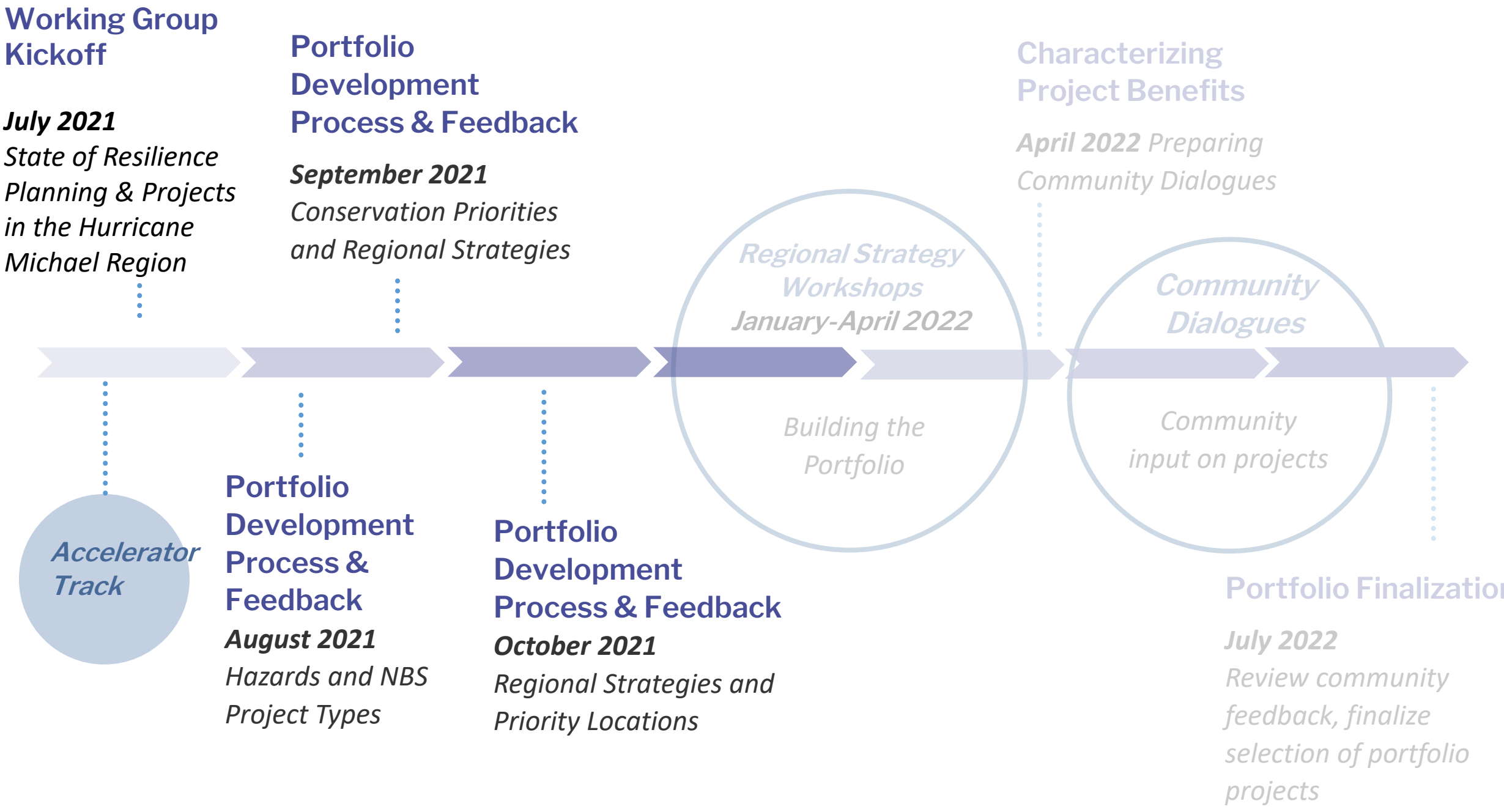
SUNS Progress & Roadmap


Working Group Kickoff
July 2021
State of Resilience Planning & Projects in the Hurricane Michael Region
Portfolio Development Process & Feedback
September 2021
Conservation Priorities and Regional Strategies
Characterizing Project Benefits
April 2022 Preparing Community Dialogues
Regional Strategy Workshops
January-April 2022
Building the Portfolio
Community Dialogues
Community input on projects
Accelerator Track
Portfolio Development Process & Feedback
August 2021
Hazards and NBS Project Types
Portfolio Development Process & Feedback
October 2021
Regional Strategies and Priority Locations
Portfolio Finalization
July 2022
Review community feedback, finalize selection of portfolio projects

Where we are:

1. Working Group Kickoff *July 2021*

2. Funding Source Webinar *Aug. 2021*

3. Working Group Session 2 *Aug. 2021*
   - Mapping existing efforts
   - Hazards considerations for suitability mapping
   - Interests & Priorities for specific NBS types

4. Working Group Session 3 *Sept. 2021*
   - Mapping existing efforts
   - Existing GIS layers of priority habitat
   - Interest & Priorities: Regional Strategies

5. Working Group Session 4 *Oct. 2021*
   - Finalizing Regional Principles & Strategies
   - Working Group Priority locations

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Defining Regional Principles & Strategies

SUNS Portfolio Development Process

Example Strategies

1. Living Shorelines
2. Recreation Economy
3. Community Stormwater Mgmt.
4. Greenspace in the Floodplain

Hazards

NBS Suitability

Fish + Wildlife Habitat

Local Expertise & Knowledge

NBS Opportunity Areas

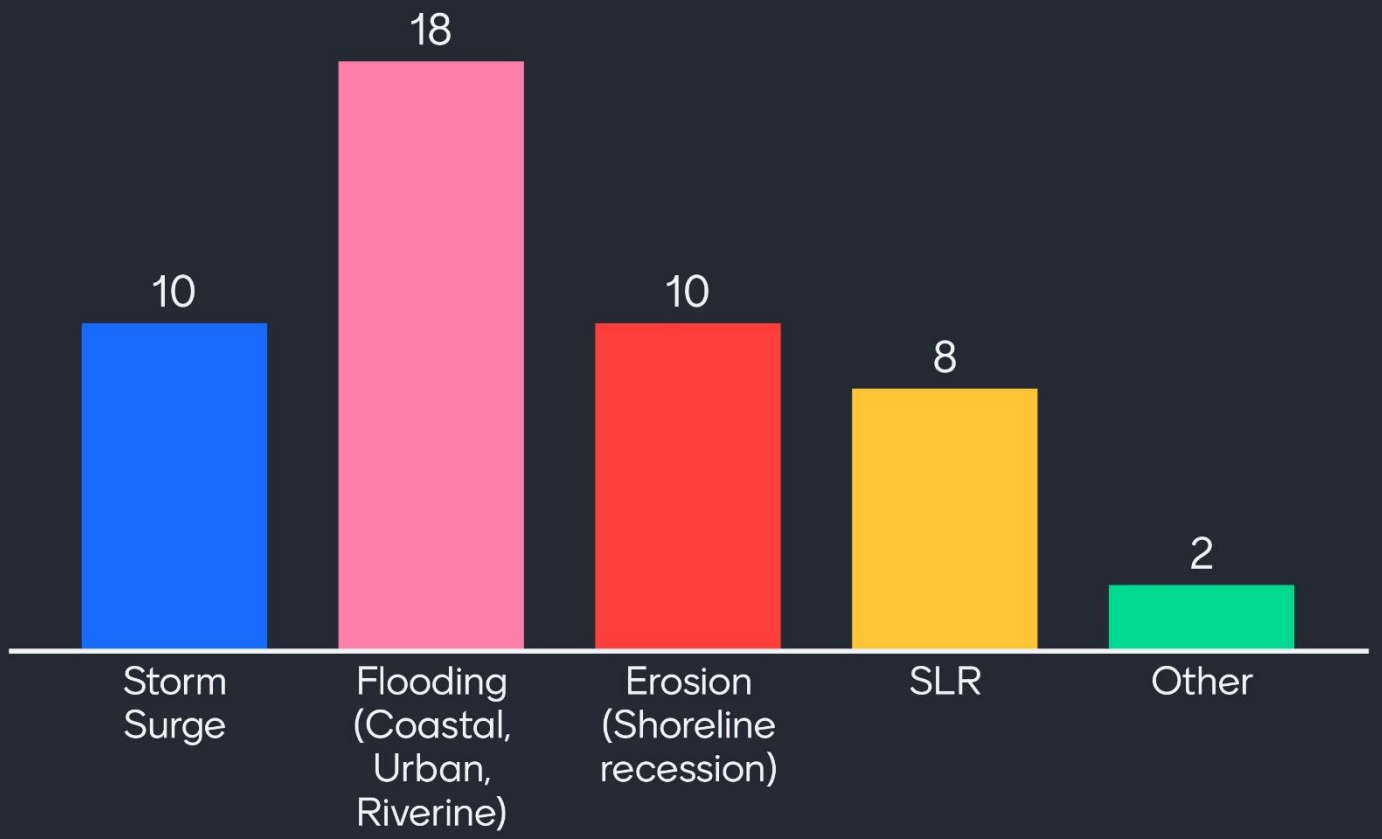
Regional Strategies

Portfolio

Existing NBS Planning and Project Efforts

Which hazards are most critical for your geography?

Mentimeter



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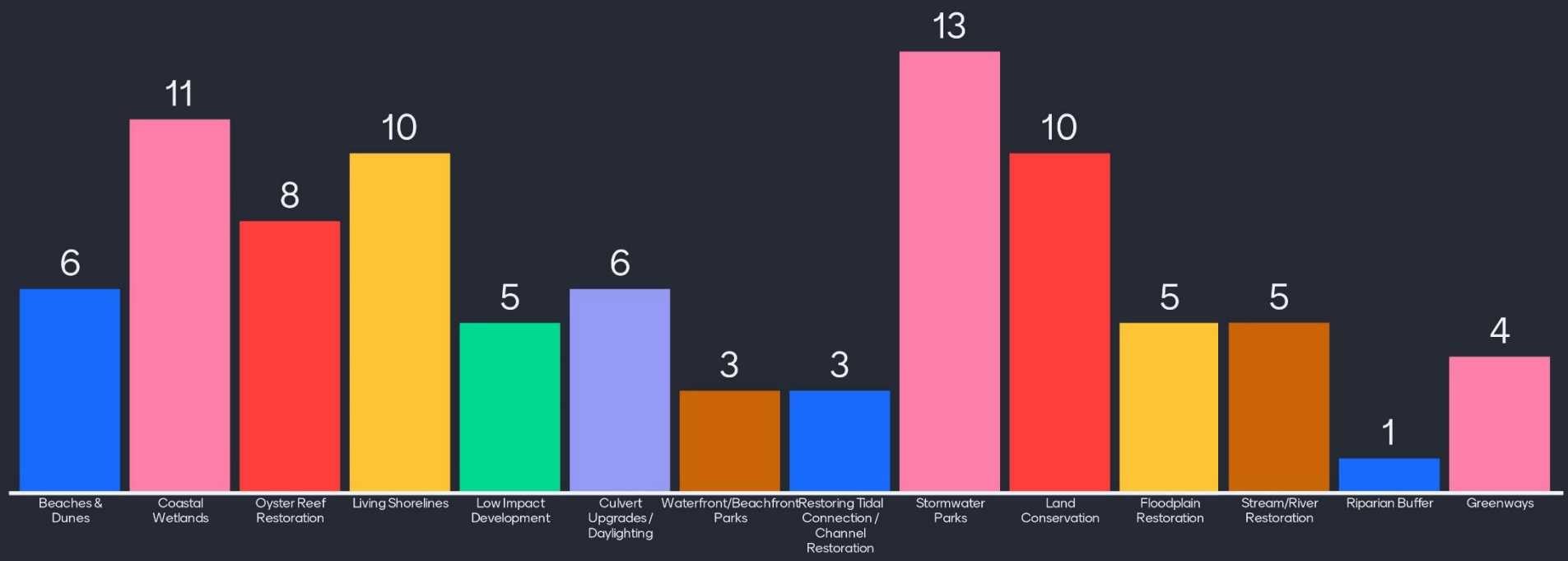
Which NBS Types would you prioritize for SUNS consideration?

Mentimeter



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Fish and Wildlife Priority Areas

- CLIP- Critical Lands and Waters Identification Project
- FNAI Rare Species Habitat Conservation Priorities
- Florida Ecological Greenways Network (subset of CLIP)
- Significant Surface Waters
- Florida Fish and Wildlife Conservation Commission's Strategic Habitat Conservation Areas
- Under-protected Natural Communities
- Florida Forever Priority List
- Florida's State Wildlife Action Plan
- TNC Resilient and Connected Lands
- NFWF CREST Tool
- USFWS Critical Wildlife Habitat
- Others?

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Regional Strategies

What is a regional NBS strategy?

- An approach to project planning that **aligns NBS projects** around a **common objective** or **co-benefits**
- Allows for the **linking of projects** across jurisdictions
- Guides project development during Portfolio Workshop Sessions

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SUNS NBS Strategy Brainstorming

Export | Login

Breakout Group 1

To use ideaboardz: 1) View section: Breakout Group 1; 2) Click "+" to add a sticky note and start typing; 3) click on a sticky note to upvote ("thumbs up" / "like"), edit, or delete +0	FEMA CRS- protecting the floodplain to earn CRS points and reduce flood risk +2
Identify multiple locations for similar projects so that implementation can be done efficiently by one entity +1	Community Stormwater Management +1
NBS to protect Critical Infrastructure +1	climate adaptation, sea level rise resilience +1
Green Buffers/Wetlands +0	Regional Recreation Economy- where can NBS advance recreation-based economic development-link to Rick +0
Fisheries - rec species and oysters, supporting fisheries through NBS	

Breakout Group 2

To use ideaboardz: 1) View section: Breakout Group 2; 2) Click "+" to add a sticky note and start typing; 3) click on a sticky note to upvote ("thumbs up" / "like"), edit, or delete +0	Flood resiliency +1
Lumping whole suites of projects into a comprehensive permitting process. +0	Stormwater management +1
Wastewater management +0	Multi-site funding strategies in which several smaller projects can be combined in one funding proposal. +0
Watershed-wide planning +1	Getting comprehensive vulnerability assessments done for whole regions +2
shoreline protection	Integrating NBS projects with conservation areas to obtain human and natural system benefits.

Breakout Group 3

To use ideaboardz: 1) View section: Breakout Group 3; 2) Click "+" to add a sticky note and start typing; 3) click on a sticky note to upvote +0	Shoreline protection +0
Road Protection +0	Alligator Point (road flooding issues) +0
Natural Landscaping +0	Clean Drinking Water +0
Community Coordination +0	Turtle Preservations +0

Hazard-oriented Strategies

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SUNS NBS Strategy Brainstorming

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Process-oriented Strategies

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SUNS NBS Strategy Brainstorming

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Solution-oriented Strategies

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Which NBS Strategy Types would you prioritize for SUNS consideration?

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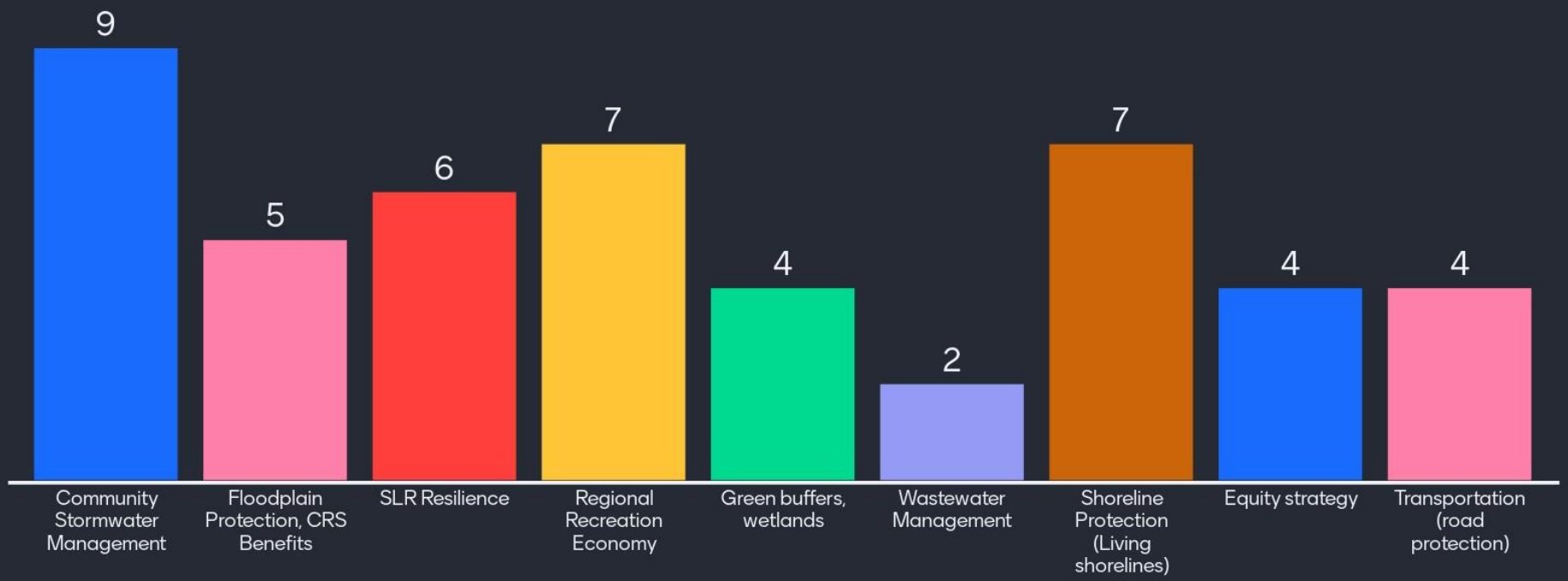

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Guiding Principles for Building the Portfolio

Guiding Principle	Description	How ?
Critical Infrastructure	*Where can projects protect transportation and other critical infrastructure?*	Map of critical infrastructure (including roadways, transportation infrastructure) Map of culverts Each session, examine opportunity areas in relation to the co-benefits they could offer transportation infrastructure Priority areas
Equity	*Where can projects benefit disadvantaged, marginalized, or vulnerable communities?*	Social vulnerability data layers (At what scale?) Priority areas
Regional approach	*Where can projects enhance one another's impact and objectives?* - *Building out from existing projects* - *Co-locating NBS project types where possible*	*Existing Plan & Project Footprint Spreadsheet and Map* Consider proximity of projects & co-locating multiple project types where possible
Building off of and supporting existing work	*Where can SUNS projects build off of and enhance existing plans or projects?*	Examine proposed projects in relation to the *Existing Plan & Project Footprint Spreadsheet and Map*, developed in Sessions 2 and 3

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The Plan for Building the Portfolio

Strategy Workshop	Description	NBS	Hazard
Greenspace in the Floodplain *(January)*	A strategy to mitigate current flooding and prevent future flooding by maintaining open space for floodwater storage and fish and wildlife habitat in the floodplain	**Land Conservation, Coastal Wetlands, *Stormwater Parks*** *(address at a later session)* Riparian Buffer, Waterfront/Beach Parks, Floodplain Restoration, Horizontal Setback Levee, Low Impact Development, Green buffer/wetlands	Flooding SLR Storm Surge
Community Stormwater Management *(February)*	A strategy that leverages a host of nature-based solutions to manage stormwater, mitigate the effects of urban flooding, and protect coastal and riparian habitat	**Stormwater Parks**, **Culvert Upgrades**, **Coastal Wetlands,** Low Impact Development, Greenways, Daylighting, Channel Restoration, Riparian Buffer, Floodplain Restoration	Flooding SLR
Shoreline Protection *(March)*	A strategy that stabilizes the shoreline, mitigates erosion, and provides coastal habitat using a variety of techniques to mimic the natural shoreline	**Living Shorelines, Beaches & Dunes**, **Coastal Wetlands**, **Oyster Reef Restoration**, Stream/River Restoration, Riparian buffers, Waterfront/Beach Parks,	SLR Storm Surge Erosion
Regional Recreation Economy *(April)*	A strategy that aligns flood mitigation with recreation opportunities and supports local/regional economic development	**Land Conservation, Stormwater Parks, Living Shorelines**	Flooding SLR Erosion

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Greenspace in the Floodplain

Description A strategy to mitigate current flooding and prevent future flooding by maintaining open space for floodwater storage and fish and wildlife habitat in the floodplain

Current & Future Greenspace:

- Where are the opportunities to ensure floodplain benefits in the future?
- Where are the wetlands not protected?
- Where are the wetland migration corridors?

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Greenspace in the Floodplain

Hazards: Flooding, SLR, Storm Surge

NBS:
Land Conservation, Coastal Wetlands, Stormwater Parks, riparian Buffer, Waterfront/Beach Parks, Floodplain Restoration, Horizontal Setback Levee, Low Impact Development, Green buffer/wetlands

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Community Stormwater Management

Description:

A strategy that leverages a host of nature-based solutions to manage stormwater, mitigate the effects of urban flooding, and protect coastal and riparian habitat

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Community Stormwater Management

Hazards: Flooding, SLR

NBS:
Stormwater Parks, **Culvert Upgrades**, **Coastal Wetlands,** Low Impact Development, Greenways, Daylighting, Channel Restoration, Riparian Buffer, Floodplain Restoration

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Shoreline Protection

Hazards: SLR, Storm Surge, Erosion

NBS: Living Shorelines, Beaches & Dunes, **Coastal Wetlands**, **Oyster Reef Restoration**, Stream/River Restoration, Riparian buffers, Waterfront/Beach Parks,

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Regional Recreation Economy

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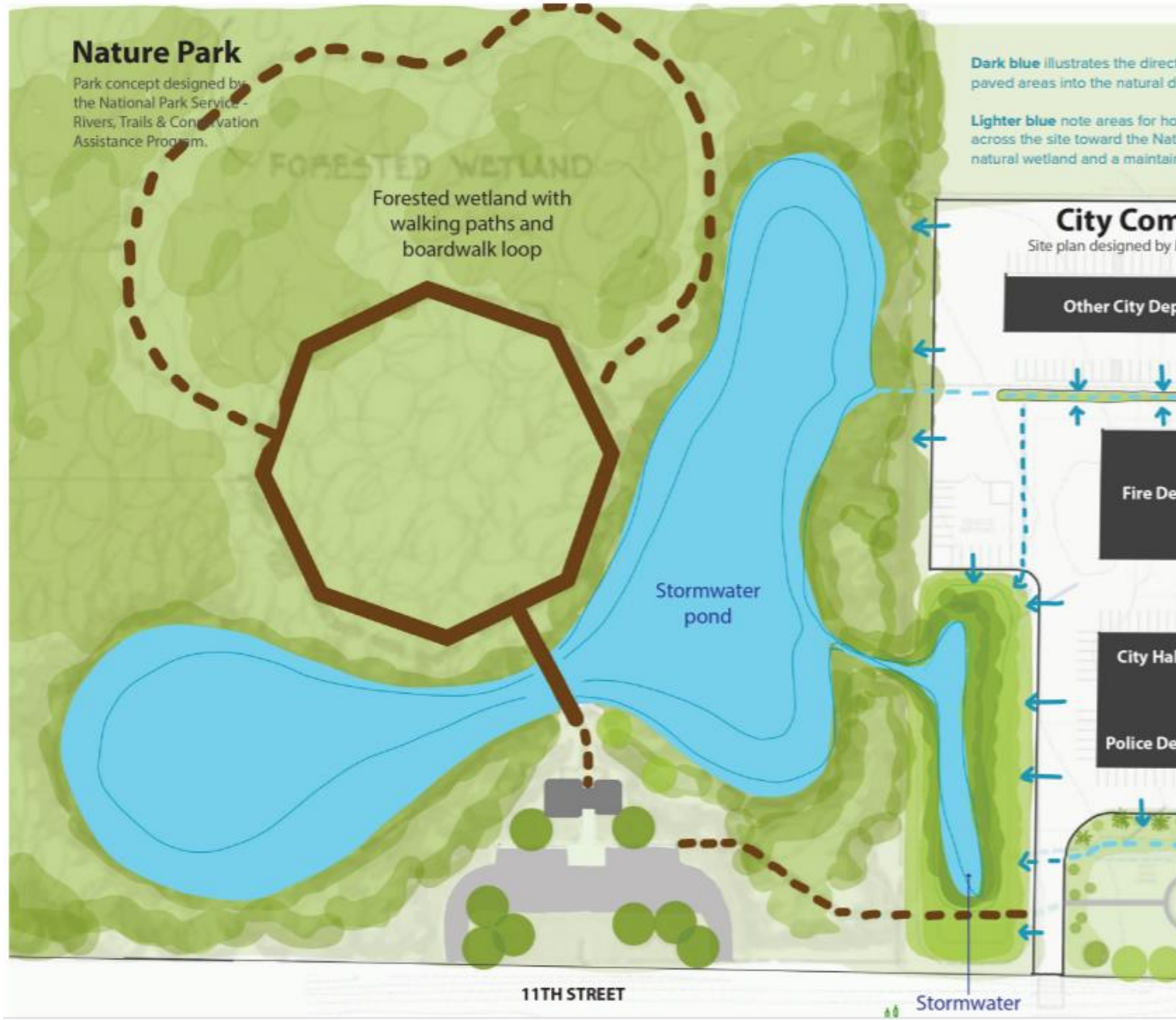

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Regional Recreation Economy

Hazards: Flooding, SLR, Erosion

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Priority Locations

SUNS Portfolio Development Process

Example Strategies

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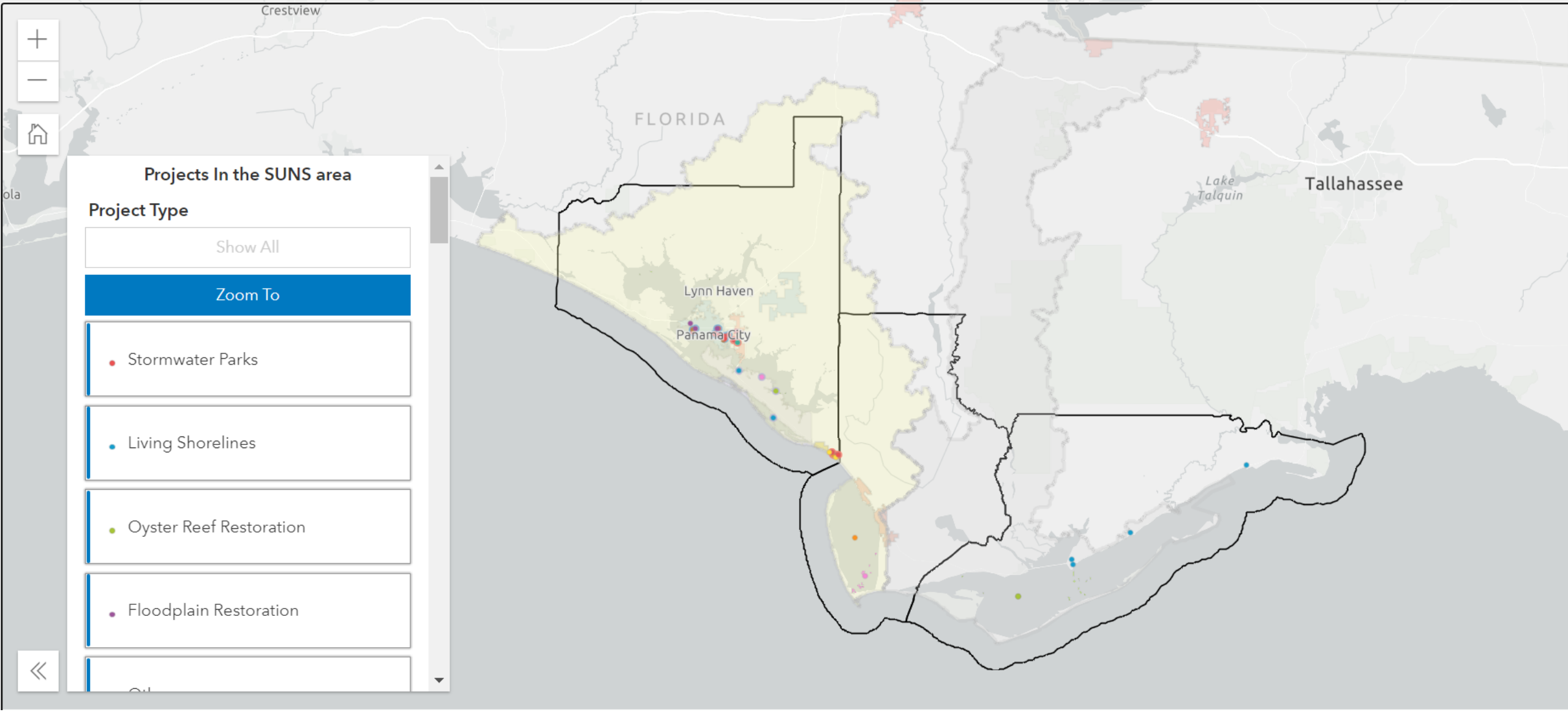
SUNS Project Planning and Studies



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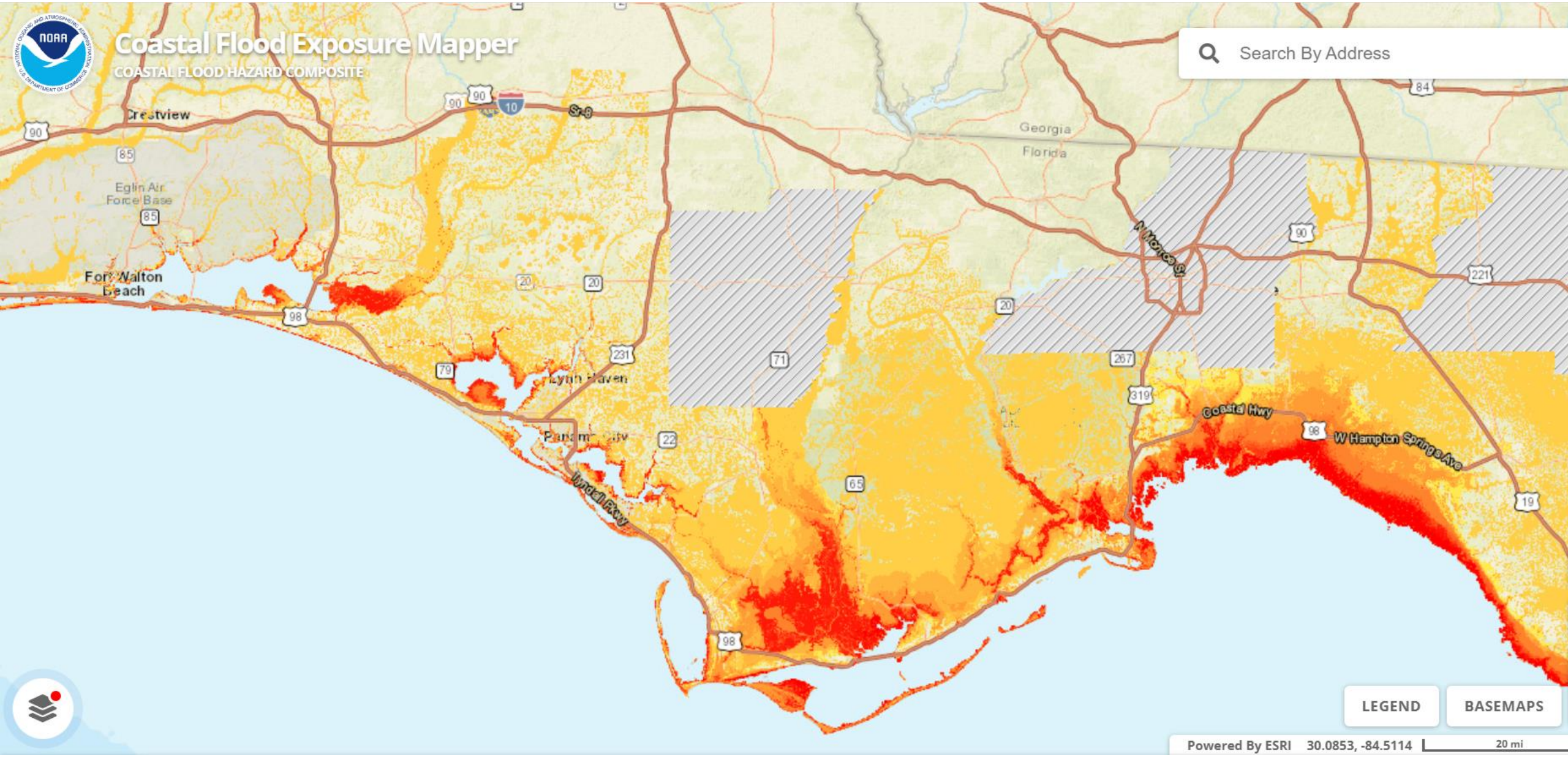

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Priority Locations

Priority Locations are sites (parcels, small areas, neighborhoods) that represent local priorities.

Priorities Include:

- Economic development
- Resilience Challenges
- Vulnerable Community
- Etc.

What and where are your priorities?

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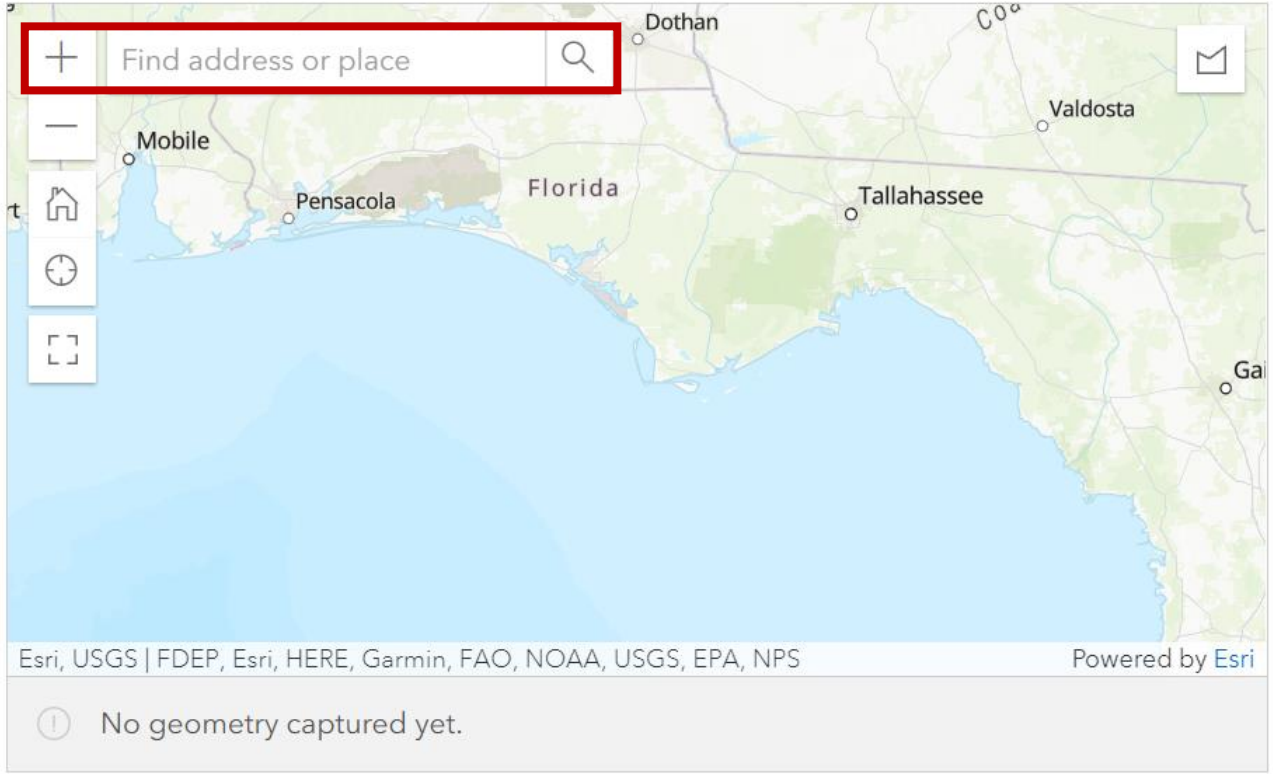
Instructions: Mapping Priority Areas

1. Go to https://arcg.is/1qWbqq
2. Zoom into your interest area or type in address



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Next Steps

1. Add any additional priority locations: https://arcg.is/1qWbqq

2. Project team will begin compiling data & prepping for 2022 Workshop Meetings

3. Working Group Session 5 – **December**
   - Virtual (1 hour)
   - Preparing for Regional Strategy Sessions
   - Updates: other planning initiatives (EPs, etc.)
   - Accelerator Update

4. Building the Portfolio Workshops: January – April 2022

5. Review the new website for updates! www.nature.org/SUNS

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