

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







Building resiliency involves concerted, regional planning efforts that consider natural and naturebased infrastructure

Working Group Kickoff



Portfolio

projects

Where we are:

1. Working Group Kickoff meeting July 2021

2. Funding source meeting Aug. 2021

3. Working Group Session 2 Aug. 2021

- Mapping existing efforts
- Hazards considerations for suitability mapping
- Interests & Priorities for specific NBS types



Objectives

- 1. Central map of existing planning efforts and projects with a NBS component across Bay, Gulf, and Franklin Counties (ie. EnvisionPC, Tyndall, Franklin 98).
- 2. List of NBS project types for SUNS consideration (selected from list of NBS types that are applicable to Panhandle)
- 3. Regional NBS Strategies for project development that reflect WG members' concurrent plans and strategic priorities.
- 4. List of potential projects and project locations
- 5. Prioritized portfolio of NBS project recommendations for Bay, Gulf, and Franklin Counties



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- 5. Prioritized portfolio of NBS project recommendations for Bay, Gulf, and Franklin Counties



Understanding Existing Planning Efforts

Name	Plan or Project	Project Type (NBS)	Managing Organization Partners	Jurisdiction	Status	Phase	Funding	Description	Location
Recovery and Resiliency Partnership Projects (R2P2)	Plan		- EPA	Mexico Beach, Parker, Springfield,	Complete	• •	r -		Jurisdiction
8th Street Canal, R2P2	Project		 City of Mexico Beach 	City of Mexico Beach		 Conceptual Design 	-	Convert canal t	io 29.937968,
Central Wetland Park, R2P2	Project	Stormwater Parks	 City of Mexico Beach 	City of Mexico Beach		Conceptual Design		Restore vacant	ι v 29.942063,
East Wetland Park, R2P2	Project	Stormwater Parks	 City of Mexico Beach 	City of Mexico Beach		Conceptual Design 🔻	~	Restore vacant	t v 29.935934,
Beach & Dune Restoration	Project	Beaches & Dunes	 City of Mexico Beach 	City of Mexico Beach	Complete	• •	State of Floric	a, the Bay County	/ Runs: appro
Trough & Back Dune Restoration	Project	Beaches & Dunes	 City of Mexico Beach 	City of Mexico Beach	Complete	• •		Restoration and	d Runs: appro
Regional Stormwater Detention, R2P2	Project	Stormwater Parks	City of Mexico Beach	City of Mexico Beach		Conceptual Design		The proposed p	pl: ?
Design/Mitigation of Wetland Site	Project	Stormwater Parks	City of Mexico Beach	City of Mexico Beach	Active	Conceptual Design	NFWF (?)	Currently, the 8	5 acres are a
			▼						
Stormwater District, R2P2	Project	Stormwater Parks	 City of Parker 	City of Parker		Conceptual Design		"A districtwide	st ?
Business 98 Redevelopment: Recreation, Stormwater	; Project	Stormwater Parks	 City of Springfield 	City of Springfield		Conceptual Design		Mixed-use rede	ev 30.151689,
Cherry Street Linear Park, R2P2	Project	Greenways	 City of Springfield 	City of Springfield		Conceptual Design 🔻		"Two design co	n 30.145584,
Civic Green Infrastructure	Project	Stormwater Parks	 City of Springfield 	City of Springfield		Conceptual Design 🔻		"Integrate susta	air ?
Envision PC	Plan		•						Boundary o
Historic Bayou & Wetland Expansion: Massalina & Wa	Project	Stormwater Parks	 City of Panama City 	Glenwood, City of Panama City		Conceptual Design		"Restore natura	al 30.159834,
Restoration of Henry Davis Park, Envision PC	Project	Floodplain Restoration	 City of Panama City 	Glenwood, City of Panama City		Conceptual Design		"Restore Henry	/ E 30.172244,
Floodable Parks, Envision PC	Project	Stormwater Parks	 City of Panama City 	Glenwood, City of Panama City		Conceptual Design		"Create a flood	al 30.161002,
Resilient Stormwater System, Envision PC	Project	Stormwater Parks	 City of Panama City 	Millville, City of Panama City		Conceptual Design		A resilient syste	er 30.154329,
Restore natural bayou finger, Envision PC	Project	Floodplain Restoration	 City of Panama City 	Millville, City of Panama City		Conceptual Design		Restore natura	1130.158429,
Relocate wastewater treatment plant and restore shore	e Project	Waterfront/Beachfront Pa	 City of Panama City 	Millville, City of Panama City		Conceptual Design		Upon wasteate	r 30.151481,
Floodable Parks, Envision PC	Project	Stormwater Parks	 City of Panama City 	Millville, City of Panama City		Conceptual Design 🔻		Combine vacar	nt 30.158865,
Joe Moody Harris Park Wetlands Restoration	Project	Stormwater Parks	 City of Panama City 	Millville, City of Panama City		Conceptual Design		"Restore wetlar	nc 30.161305,
Waterfront Park shoreline restoration	Project	Waterfront/Beachfront Pa	 City of Panama City 	Millville, City of Panama City		Conceptual Design	/	"Expand water	irc 30.170523,
Floodable Stormwater Park, Envision PC	Project	Stormwater Parks	 City of Panama City 	St. Andrews, City of Panama City		Conceptual Design		Floodable storr	(confirm) 30 m
Restablish Hydrological connection between Lake Wa	r Project	Restoring Tidal Connecti	 City of Panama City 	St. Andrews, City of Panama City		Conceptual Design		"Widening the	w: 30.170468,
Shoreline restoration of Lake Ware & wetlands	Project	Floodplain Restoration	 City of Panama City 	St. Andrews, City of Panama City		 Conceptual Design 		"Restore natura	al 30.171520,
Sweet Bav Park Wetlands Restoration	Proiect	Floodplain Restoration	 Citv of Panama Citv 	St. Andrews. Citv of Panama Citv		Conceptual Design		Restore wetlan	d: 30.181688.



SUNS Project Planning



Areas within the SUNS project extent where natural solutions are being planned or completed.



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Reviewing Existing Planning and Project Efforts

Projects and Plans should be included in spreadsheet IF:

- Within Bay, Gulf, Franklin Counties
- **Plans:** Include NBS Strategies and/or projects that are consistent with NBS Project Types
- Projects:
 - Employ one/more NBS Project Types
 - If site-scale, could it link to other projects (be scaled up)?
- **Study:** Provides data essential for project development and/or provides environmental or ecological data



What types of projects are Nature-based Solutions?

TABLE 3-2 EXAMPLE INDIVIDUAL



Scale	Setting	Riverine/Urban Flooding	Coastal Flooding			
		Greenways				
	More	 <u>Culvert Upgrades</u> 	Culvert Upgrades			
Watershed/ Landscape	Urban	Daylighting	Waterfront Parks			
		Low Impact	 Beach Parks* 			
		Development	Tidal Circulation			
		 Stormwater Parks 	Living Shorelines			
		Riparian Buffer	Channel Restoration			
		 Stream/River 	 <u>Beaches and Dunes</u>* 			
		Restoration	<u>Coral Reef</u>			
		 Horizontal Setback 	Restoration			
		Levee	 Coastal Wetlands 			
		 Floodplain 	Restoration (Marsh,			
	More	Restoration	Mangroves)			
	Rural	 Dam Removal 	 Land Conservation 			
		Land Conservation				

MITIGATION DRO IECTS D



Reviewing Existing Planning and Project Efforts

1. Review spreadsheet

2. For additions/amendments/changes:

- Are all relevant planning efforts and sites documented? (If not, what should be added or who should be consulted to ensure accuracy?)
- Are there supporting shape files or images or plans that would help make the map (and/or should be linked to)



SUNS Portfolio Development Process

What is the SUNS portfolio?

It is a **suite of NBS projects** that:

- Align with regional strategies
- Are suitable for state and/or federal NBS funding
- Reduce risk
- Benefit fish and wildlife



The SUNS Portfolio ...

....Will be a **document and map** that detail:

- NBS project type and locations
- Likely project benefits
- Regional, strategic importance of the project
- Potential funding sources for implementation





The SUNS Portfolio can be used to scale up funding and construct NBS projects in the region to reduce risk and benefit fish and wildlife.

How do we develop the SUNS Portfolio?

An Example NBS Project Planning Workflow

This planning is approach is useful for identifying an appropriate Naturebased solution for mitigating hazards at a **known location**.

To develop a planning approach for the SUNS project, we need to **adapt and scale up** this approach.







SUNS Portfolio Development Process



DiscussionIdentifying Hazards & DataSources

SUNS Portfolio Development Process



Hazards and Data sources

Hazard	Types	Data source(s)		
Storm Surge	Coastal Storms	NHC Storm Surge Hazard Maps		
Flooding	Coastal	FEMA National Flood Hazard Layer NOAA High Tide Flooding		
	Urban/Riverine			
Erosion	Coastal	FL DEP Critical Erosion Layer		
(Shoreline recession)	Urban/Riverine?			
Sea Level Rise	Sea Level Rise	2017 NOAA Intermediate-Low and		
		Intermediate-High SLR Projections		
		(Planning horizons for 2040 and 2070)		
Other		Local and/or county models		



Poll: Which hazards are most critical for your geography?

Go to: www.menti.com

Enter the code: 4405 8880

Pick 3 options



Discussion Identifying NBS Types

SUNS Portfolio Development Process



Hazard	Types	Data source(s)	NBS
Storm Surge	Coastal Storms	NHC storm surge hazard maps	Beaches and Dunes, Coastal Wetlands Restoration (marsh, mangroves), Oyster Reef Restoration, Living Shorelines, Riparian Buffer
Flooding	Coastal	FEMA National Flood Hazard Layer NOAA High Tide Flooding	Culvert Upgrades, Waterfront/ Beach Parks, Restoring Tidal Connection, Living Shorelines, Channel restoration, Beaches and Dunes, Oyster Reef Restoration, Coastal Wetlands Restoration (marsh, mangroves), land conservation
	Urban/Riverine		Greenways, Culvert Upgrades, Daylighting, Low Impact Development, Stormwater Parks, Riparian Buffer, Stream/River Restoration, Horizontal Setback Levee, Floodplain Restoration, Land Conservation
Erosion (Shoreline	Coastal	FL DEP Critical Erosion Layer	Beaches and Dunes, Coastal Wetlands Restoration (marsh, mangroves), Oyster Reef Restoration, Living Shorelines
recession)	Urban/Riverine?		Living shorelines, Riparian Buffer
Sea Level Rise	Sea Level Rise	2017 NOAA Intermediate-low and intermediate-high SLR Projections	Beaches and Dunes, Coastal Wetlands Restoration (marsh, mangroves, Living Shorelines), Stormwater Parks
Other		Local and/or county models	



NBS	Storm Surge	Coastal Flooding	Urban/Riverine Flooding	Coastal Erosion	Riverine Erosion	SLR
Beaches & Dunes	Х	х		Х		Х
Coastal Wetlands	Х	Х		Х		Х
Oyster Reef Restoration	Х	Х		Х		
Living Shorelines	Х	Х		Х	Х	Х
Riparian Buffer	Х				Х	
Culvert Upgrades		Х	X			
Waterfront/Beach Parks		Х				
Restoring Tidal Connection		Х				
Channel Restoration		Х				
Land Conservation		Х	X			
Greenways			X			
Daylighting			X			
Low Impact Development			X			
Stormwater Parks			X			Х
Stream/River Restoration			X			
Horizontal Setback Levee			X			
Floodplain Restoration			Х			,

Poll: Which NBS Types would you prioritize for SUNS consideration?

Go to: www.menti.com

Enter the code: 4405 8880

Pick 5 options



Next Steps

 Follow up with shapefiles for Planning and Project Efforts Footprint Map – email Anna Jane at annajane.jones@tnc.org

2. September 30th Working Group Session 3

- Virtual (1.5 hour)
- Priority Locations and Regional Strategies
- Accelerator Update

