RESILIENT CEDAR KEY / PORT ST. JOE A MODEL FOR COMMUNITY-UNIVERSITY PARTNERSHIPS TO ADVANCE CLIMATE ADAPTATION

2024 Symposium on Flooding Adaptation | October 29, 2024







UF College of Design, Construction & Planning UNIVERSITY of FLORIDA Florida Institute for Built Environment Resilience UNIVERSITY of FLORIDA



COMMUNITY-UNIVERSITY PARTNERSHIPS

Communities can leverage universitybased research and faculty expertise to create data-driven plans that articulate flood risk-reduction goals, develop realistic adaptation actions, and catalyze future resources for implementation.



UF COLLEGE OF DESIGN, CONSTRUCTION + PLANNING

Faculty *expertise* in hazard mitigation + climate adaptation

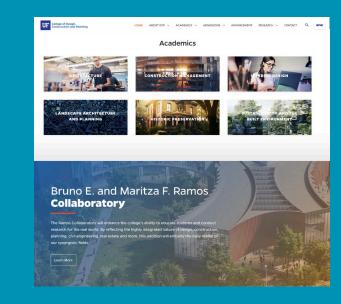
• Planning, architecture, landscape architecture, construction management, historic preservation, fire + emergency services

Research integrates *new technology* + *innovation*

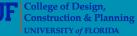
• Al, interactive mapping applications, digital twins for spatial analysis, visualization, and communications

Serving the public is in our mission

• As Land Grant / Sea Grant institution, UF is dedicated to supporting communities across Florida



UF



Case Study 1- Resilient Cedar Key

Partnership between:

- City of Cedar Key
- UF Florida Institute for Built Environment Resilience (FIBER)
- UF Center for Landscape Conservation Planning (CLCP)
- UF Shimberg Center for Housing Studies
- UF/IFAS Nature Coast Biological Station
- UF/IFAS Food and Resource Economics Dept.
- Florida Sea Grant









F Shimberg Center for Housing Studies UNIVERSITY of FLORIDA

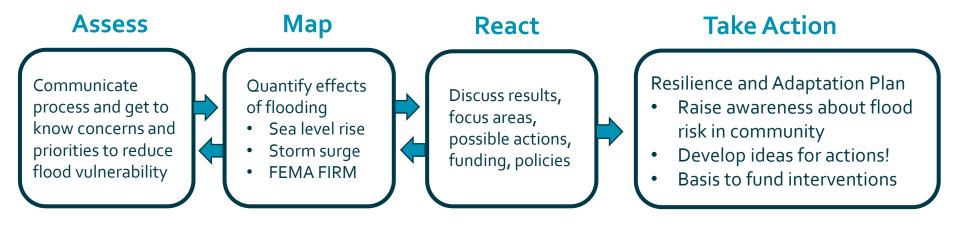




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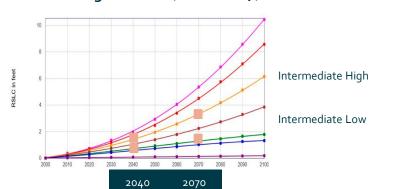
Action-Focused Planning Process



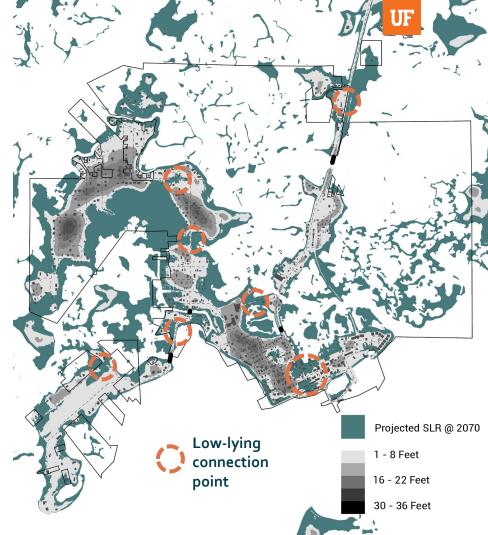
Vulnerability Assessment

Included several flood hazards in response to FDEP requirements and community interests:

- High-tide flooding
- 1-year, 2-year, 10-year return events
- FEMA 100-year floodplain
- Category 1, 3, 5 hurricanes
- Sea level rise (NOAA Intermediate High, 2040/2070)

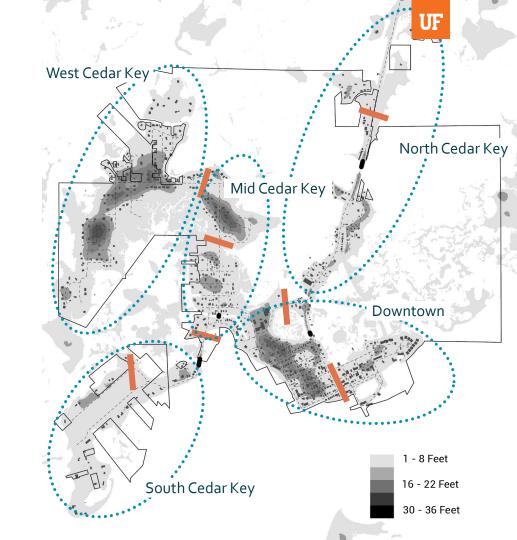


Planning Horizons (NOAA 2017)



Study Areas

- Given these natural breaks across the island, the city can also be seen through a collection of interdependent sub-geographies.
- The Cedar "Keys" study areas shaped analysis and drove adaptation planning:
 - Downtown CK
 - Mid-CK
 - North CK
 - South CK
 - West CK
 - Also, inland areas (Levy county)



Resilient Cedar Key

A Dashboard to explore the impacts of compound flooding with different storm events under different sea-level rise scenarios.





Disclaimer

The data and maps in this tool illustrate the scale of potential flooding, not the exact location, and do hot account for erosion, subsidence, or future construction. Although every effort has been made to ensure that information is comprehensive and accurate, errors and omissions may exist. The data and the information included therein is provided on an "as is" basis. The Fordia Institute (or Built Environment Resilience (FIER), Fordia See Grant, the University of Florida, or any of their respective faculty, staff, or administration specifically disclaim any warranty, either expressed or implied, including but not limited to the implied warranties of merchantability and fitness for a particular use. The entire risk as to quality and performance is with the user. This tool should be used strictly as a planning reference tool and not for navigation, permitting, or other, legal purposes.

https://resilientcedarkey.web.app/

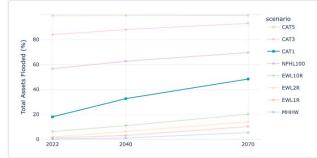
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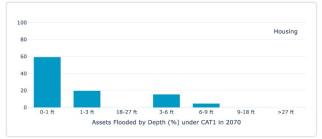
TRANSPORTATION CRITICAL INFRASTRUCTURE COMMUNITY SERVICES NATURAL & CULTURAL LOCAL ECONOMY

Affordable Housing

Overview: Cedar Key is a historic community with a range of housing stock, ages, construction types, and economic values. This housing stock traditionally supported a diverse community across race, age, and economic status.

Challenges: Like many coastal communities in Florida, Cedar Key has seen property values rise substantially in recent years, making housing unaffordable to many people. Coupled with increased risk from rising tides/coastal flooding, structure age, and costs of upkeep, Cedar Key's housing stock is vulnerable to storm damage as well as conversion to short-term rental properties.















Overarching Themes

Theme: Cedar Key is an archipelago.

Approach: Restore Hydrologic Connectivity Theme: Cedar Key depends on its transportation network.

Approach: Strengthen Transportation Network

Approach: Tailor Adaptation Actions for Diverse Districts

Theme:

Cedar Key is a

collection of

diverse

districts.

its identity and will sustain its future.

Theme:

Cedar Key's natural

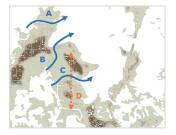
systems have defined

Approach: Preserve Natural Systems and Functions that Sustain the Local Economy

Adaptation Action Areas + Project Priorities



Downtown "Reconnect and Redefine"



Mid CK "Restore Keys Hydrology"



West CK "Individual Action, Collective Impact"



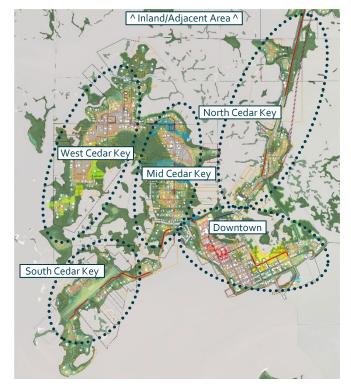
North CK Local + Regional Connections



South CK Infrastructure & Shorelines



Inland Area "Protect and Plug-In"



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Redefining Downtown- A New Civic Center



Redefining Downtown- Priority Projects

1

Relocation of City Hall, library, emergency and community services, etc. to higher ground by Community Center

Redevelop areas of higher ground for more mixed income/affordable housing in vicinity of G St. and 6th St.



Restore hydrologic connectivity along Whiddon Ave. at west side of CK School





Moving Forward



City of Cedar Key, Florida Cedar Key Community Redevelopment Agency

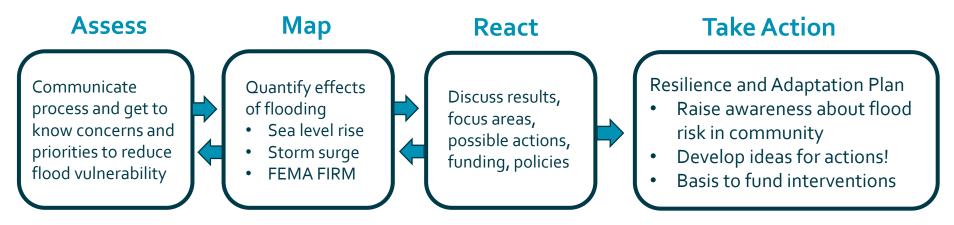
Linking adaptation plan with City's CRA plan

- Catalyzing mitigation projects:
 - Relocation of City Hall & other city departments
 - Land acquisition grants
 - Prioritization of FEMA relief funds
 - Identifying target properties for buyout offers
- Preparing future applications for infrastructure funds

Case Study 2- Port St. Joe The Context



Planning Process



Collective Mapping

Resilient Port St. Joe WebApp

Adaptation Plan Spatial Framework Adaptation Overlays

Community Input Collective Mapping



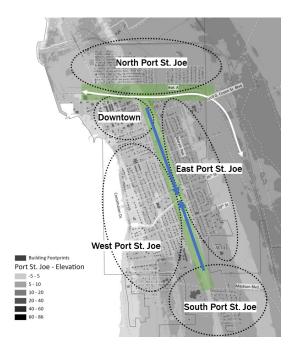
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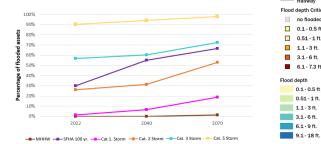


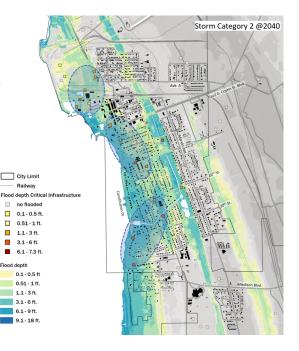
Vulnerability Assessment Results



Critical Infrastructure Exposure Analysis

- By 2040, a Category 2 storm will flood over 30% of critical infrastructure, by 2070 this percentage rises to over 50% (almost double of flooded assets in 2022).
- By 2040, a Category 3 storm will flood almost 60% of critical infrastructure, with several assets including lift stations, hazardous waste facilities, and communication facilities getting over 3ft and even 6ft of water.



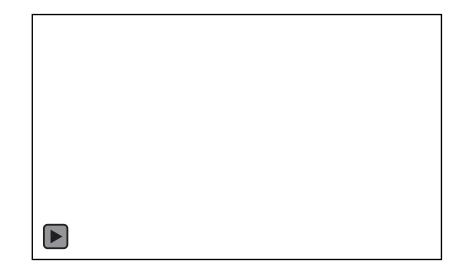


Railway

Vulnerability Assessment Results

Zone 1, Downtown Critical assets inventory, exposure levels

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Adaptation Plan **Spatial Framework** Ensemble **Adaptation Plan** Vulnerability Assessment **Adaptation Project** Area 1 Overarching Value **Statements** Themes Adaptation Project Area 2 Adaptation Prioritization Actions Asset exposure **Adaptation Project** & sensitivity Area 3 Needs Focus Areas Adaptation Project Area 3

Adaptation Overlays

Implementation

Adaptation Plan Principles

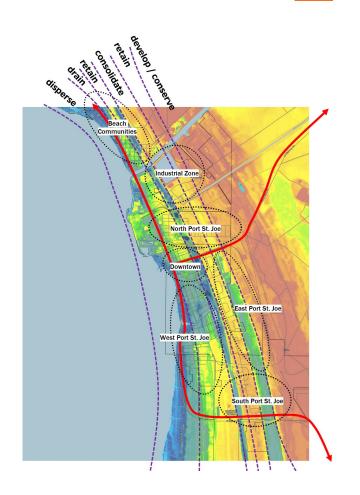
Theme 1: Port St. Joe's Land Morphology Role in Flood Mitigation.

Approach: Enhance Hydrologic Conditions

Theme 2: Vulnerability of Main Transportation Routes to Severe Flooding **Approach:** Strengthen Transportation Network

Theme 3: Diversity of Districts in Port St. Joe

Approach: Tailor Adaptation Actions for Diverse Districts



Adaptation Plan Spatial Framework

Port St. Joe's topographic bands, consisting of ridges and low swale areas, influence flood patterns and vulnerability based on elevation. The Spatial Framework assigns each band a specific zone—disperse, drain, retain, consolidate, develop/conserve, or special conditions—with tailored flood strategies that leverage the city's unique hydrologic and topographic features.





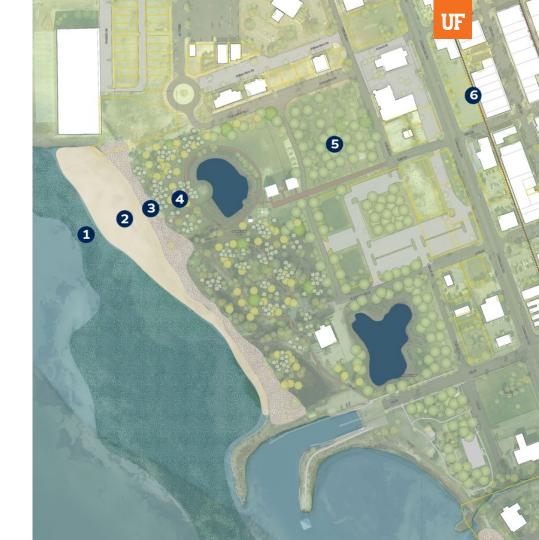
Adaptation Plan Spatial Framework

Re-structure Marina Drive, ensure connectivity

Sand Hills Pond Park, Shipyard Cove, and Maddox Park

- 1. marsh restoration
- 2. beach nourishment
- 3. dune restoration and retrofit revetment
- 4. mix low vegetation and deciduous trees
- 5. high vegetation

6. Dry floodproof Reid Ave.



Adaptation Plan Adaptation Overlays

- The disperse overlay applies to the land closest to the coast and involves bolstering infrastructure and defenses from waves, rising ocean waters, and extreme storm events.
- The drain overlay covers low-elevation areas that need improved drainage.
- The retain overlay covers areas that could benefit from increased water retention capacity and natural condition restoration.
- The consolidate overlay involves encouraging future growth in high-elevation areas with low flood vulnerability and good accessibility.
- The conserve overlay focuses on preserving ecosystem functions and managing building development.
- The "special conditions" designation focuses on improving stormwater drainage and retention for certain facilities with preexisting nonconforming uses.



Legend

City Limits Parcels

Railway

disperse drain

retain

conserve



THANKYOU

resilientcedarkey.web.app resilientpsj.web.app



