



# Statewide Community Resiliency Initiative : *Planning for Adaptation*



Julie A. Dennis

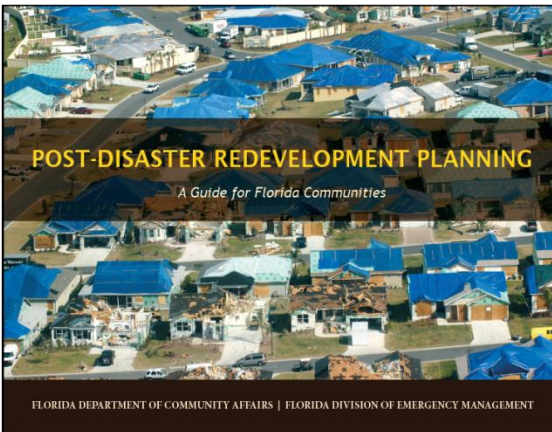
Division of Community  
Development

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# Coastal Planning Initiatives

*Waterfronts Florida*  
PARTNERSHIP PROGRAM





# POST-DISASTER REDEVELOPMENT PLANNING

*Addressing Adaptation  
During Long-term Recovery*



# Community Resiliency Scope of Work

- **Year 1:** Partnership building, information gathering and establishing parameters.
- **Year 2:** Evaluating vulnerability analyses, selecting pilots and developing preliminary guidance on adaptation planning / Adaptation Action Areas Pilot Project
- **Year 3:** Piloting adaptation planning guidance in two different communities.
- **Year 4:** Compiling Lessons Learned and disseminating results.
- **Year 5:** Information Dissemination and Outreach.



# Community Resiliency Project Goals

- Follow the lead of local governments
- Provide the coastal resilience and adaptation technical assistance to local governments in the way that is most useful to them.
- Approach community resiliency at both the “grassroots” and statewide level.
- Coordinate all existing efforts regarding adaptation in Florida.
- Better prepare the state for a resilient future.



# Focus Group Members

## Local Government

- Lorenzo Aghemo, Palm Beach County
- Joan LeBeau, City of Punta Gorda
- Eugene Henry, Hillsborough County
- Christine Hurley, Monroe County
- Dr. Jennifer Jurado, Broward County
- Susanne Torriente, City of Fort Lauderdale
- Nichole Hefty, Miami-Dade County
- Jimmy Morales, City of Miami Beach



## Regional Planning

- James F. Murley, South Florida Regional Planning Council
- Jim Beever, Southwest Florida Regional Planning Council
- Margo Moehring, Northeast Florida Regional Planning Council
- Jayantha Obeysekera, South Florida Water Management District
- Hugh Harling, East Central Florida Regional Planning Council

# Focus Group Members

## State Government

- Jim Wood, Dept. of Transportation
- Danielle Irwin, Department of Environmental Protection
- Kelly Samek, DEP Florida Coastal Management Program
- Whitney Gray/Scott Saunders, Florida Wildlife Conservation Commission
- Joy Duperault, Division of Emergency Management
- Meredith Jagger, Department of Health
- Rosalyn Kilcollins, DEP Coastal Training Program

## Federal Government

- Heidi Stiller, NOAA, Coastal Service Center
- Valerie Anderson, FEMA Region IV
- Tucker Mahoney, FEMA IV
- Glenn Landers, Army Corps of Engineers
- Amanda Smith, Navy



# Focus Group Members

## Private Sector and Non-Profit Organizations

- Todd Powell, Plum Creek Timber Co.
- Alex Magee, American Planning Association, Florida Chapter
- Eric Draper, Florida Audubon
- Gary Appelson, Sea Turtle Conservancy
- Janet Bowman, The Nature Conservancy
- Steve Adams, Institute for Sustainable Communities
- Leticia Adams, Florida Chamber of Commerce
- Stan Bronson, Florida Earth Foundation
- Charles Pattison, 1000 Friends of Florida



## University System

- Dr. Len Berry, Florida Center for Environmental Studies, FAU
- Dr. James Jones, Florida Climate Institute, UF
- Dr. Bob Deyle, Dept. of Urban and Regional Planning, FSU
- Thomas Ankersen, Law Conservation Clinic, UF
- Dave Markell, College of Law, FSU
- Dr. John Jaeger, Professor/GSAA Vulnerability Assessment Representative, UF
- Dr. Kathryn Frank, Dept. of Urban and Regional Planning, UF
- Thomas Ruppert, Florida Sea Grant, UF (Built Environment)
- Whitney Gray, Florida Sea Grant, UF (Natural Environment)
- C.J. Reynolds, Coastal Areas Climate Change Education Partnership, USF



# Project of Special Merit

- Implementing “Adaptation Action Area” Policies in Florida
- Partnership with City of Ft. Lauderdale, Broward County, South Florida Regional Planning Council and Southeast Florida Regional Climate Compact.
- Address AAA in City of Ft. Lauderdale Local Comprehensive Plan.
- Create guidance for statewide dissemination.



# Adaptation Action Areas

## Section 163.3164(1), Florida Statutes

*“Adaptation action area” or “adaptation area” means a designation in the coastal management element of a local government's comprehensive plan which identifies one or more areas that experience coastal flooding due to extreme high tides and storm surge, and that are **vulnerable to the related impacts of rising sea levels** for the purpose of prioritizing funding for infrastructure needs and adaptation planning.*

# Adaptation Action Area

## Section 163.3177(6)(g)(10), Florida Statutes

*At the option of the local government, develop an adaptation action area designation for those low-lying coastal zones that are experiencing coastal flooding due to extreme high tides and storm surge and are vulnerable to the **impacts of rising sea level**. Local governments that adopt an adaptation action area may consider policies within the coastal management element to improve resilience to coastal flooding resulting from high-tide events, storm surge, flash floods, stormwater runoff, and **related impacts of sea-level rise**. Criteria for the adaptation action area may include, but need not be limited to, areas for which the land elevations are below, at, or near mean higher high water, which have an hydrologic connection to coastal waters, or which are designated as evacuation zones for storm surge.*

# Satellite Beach – Adaptation Action Areas

- *Objective 1.3 The City will continue to limit use of public funds and discourage use of funds by other levels of government that subsidize new, private development or redevelopment in the Coastal High Hazard Area.*
- *Policy 1.3.2 - The City shall coordinate with service providers to replace and mitigate damaged infrastructure within the Coastal High Hazard Area and other parts of the Adaptation Action Area consistent with other policies of the Comprehensive Plan. (Refer to Policy 1.12A.2 in which the Adaptation Area is established.)*
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# Satellite Beach – Adaptation Action Areas

- Objective 1.4A *The City will strive to reduce the exposure of human life and public and private property to natural hazards while reducing the cost of flood insurance.*
- *Policy 1.4A.1 - The City **will initiate a public process to identify Adaptation Action Areas (AAAs)** in accordance with Sections 163.3164(1) and 163.3177(6)(g)10 Florida Statutes. The purpose of the AAAs is to increase grant and other funding opportunities and identify creative solutions to achieve the following goals:*
  - *Protect the health, safety and welfare of residents,*
  - *Prevent damage to public and private property, and*
  - *Reduce National Flood Insurance Program premiums to property owners.*



# Satellite Beach – Adaptation Action Areas

- ***Objective 1.12A Development and redevelopment within the City will be permitted only when consistent with sound planning practices that will protect life and property from the effects of coastal erosion, flooding, sea level rise, or damage to environmental systems.***
- ***Policy 1.12A.2 – The City of Satellite Beach designates the Adaption Action Area (AAA) as that area which includes the CHHA and other areas of the City as may be identified by the City Council in the future as being subject to coastal erosion, flooding, sea level rise, or damage to environmental systems.***

# Potential Adaptation Action Area Alternatives (FSU DURP, 2013)

20-year horizon  
low SLR projection



Type I (no regrets): low risk averseness; low opportunity cost tolerance; low uncertainty tolerance

100-year horizon  
high SLR projection



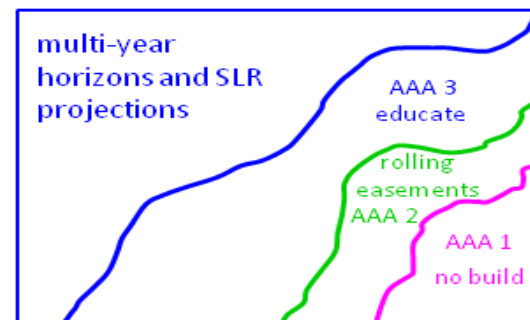
Type III (precautionary): high risk averseness; high opportunity cost tolerance; high uncertainty tolerance

50-year horizon  
medium SLR projection



Type II: medium risk averseness; medium opportunity cost tolerance; medium uncertainty tolerance

multi-year horizons and SLR projections



Type IV: diverse-community attitude compromise



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