

Broward County and Compact Resilience Update

Presented to the Broward
Climate Change Task
Force

November 2, 2023



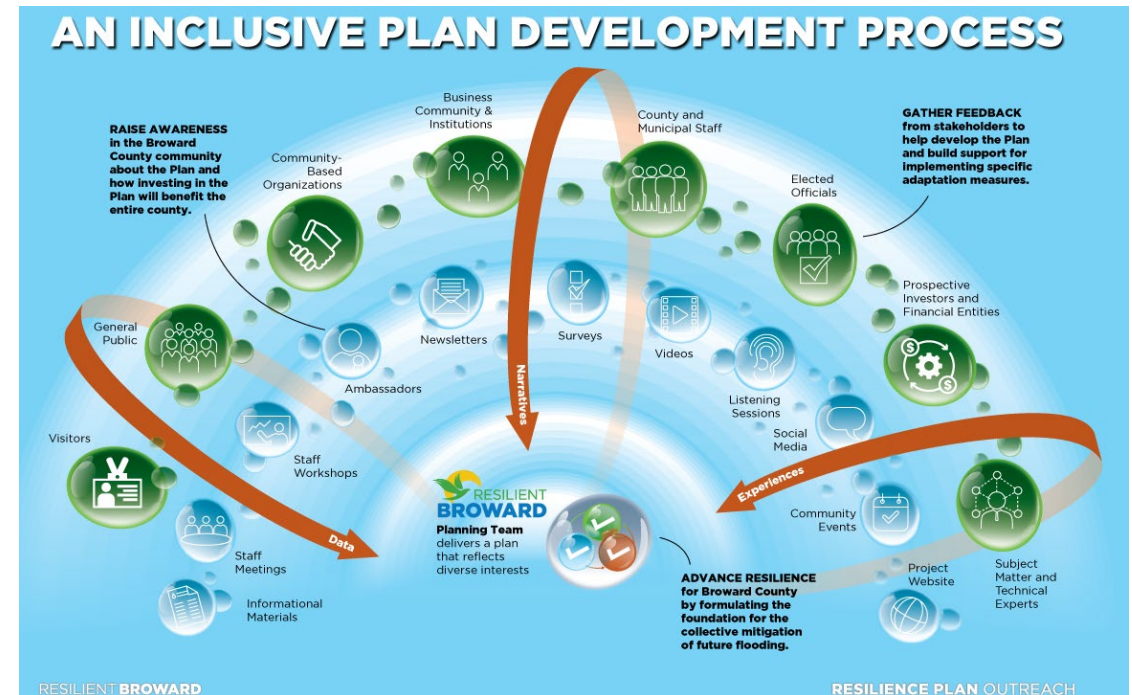
Overview

- Resilience Plan Update
- Policy Update
 - Heat Resolution
 - Under 2 MOU
- Procurement Update
- Underwater: Broward
- Compact
 - Summit
 - Economic Resilience
- Broward Resilience Roundtable
- Engagement



Broward Resilience Plan

- Economic Modeling
 - Presented to Steering Committee
 - Blue Ribbon Committee Review
- Adaptation Scenarios
 - Sub-regional approach
 - Sensitivity analyses
 - Feedback
- Listening Sessions
 - Impacts
 - Concerns
 - Priorities



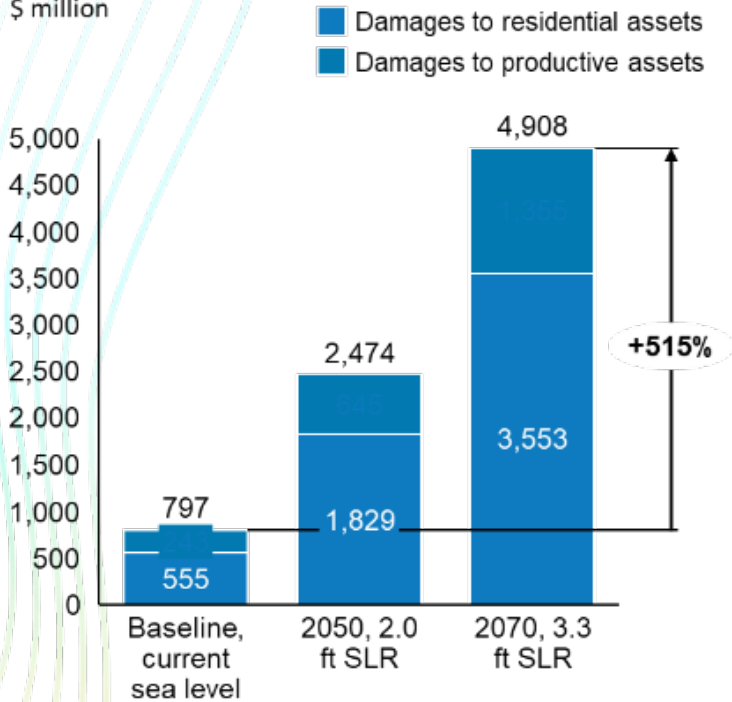
Risk Assessment and Resilience Plan

Economic Modeling

NO ADAPTATION INCLUDED

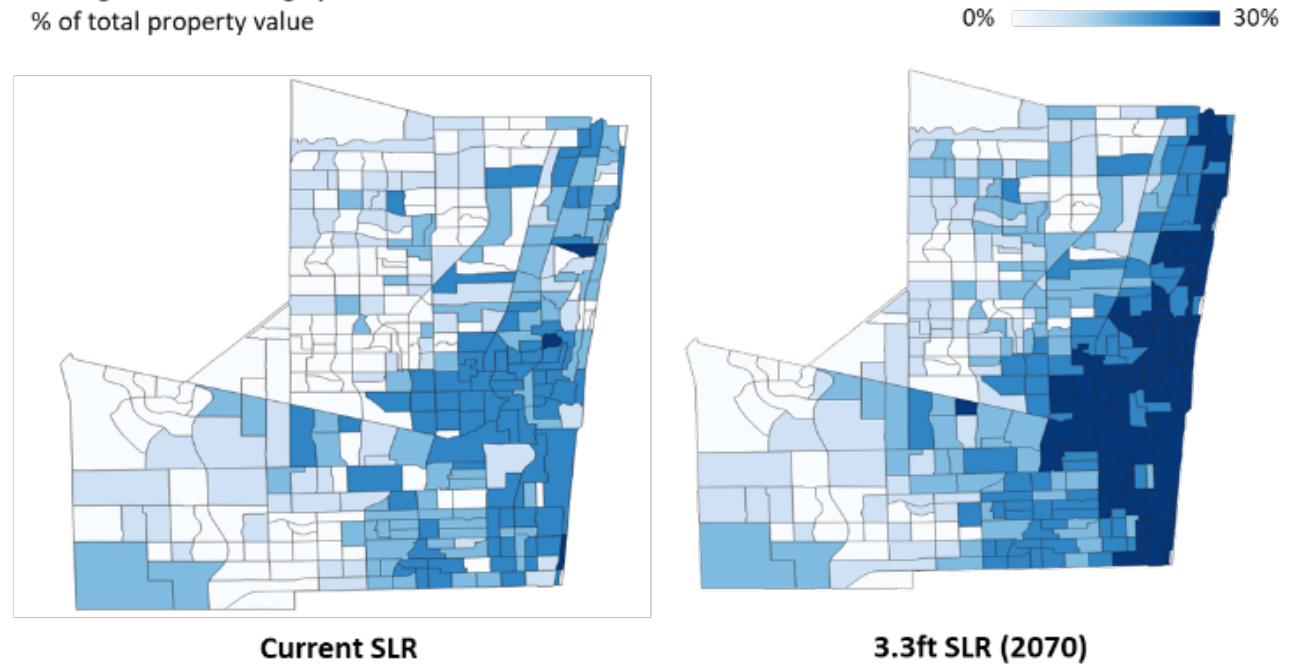
By 2070, residential/productive asset damage could increase 6.4x/5.6x times compared to baseline

Average annual damage, total
\$ million



Most flood damage is concentrated along the coast

Average annual damage per census tract
% of total property value



Risk Assessment and Resilience Plan

Economic Modeling

Overall, without adaptation, increased flood risk will likely affect residents, business owners, and the economy of Broward County

POTENTIAL IMPACTS IN 2050 WITHOUT ADAPTATION; BASED ON PRESENT DAY ECONOMY

	Today	2.0ft SLR (2050)	3.3ft SLR (2070)
Annual average damages	\$797M	\$2,474M (+210%)	\$4,908M (+515%)
NFIP policy count	175,002	49,479 (-72%)	41,069 (-77%)
Property value change	-	-13%	-21%
Property tax change	-	-18%	-27%
Annual jobs at risk	3,300	~5,700 (+70%)	~12,100 (+265%)



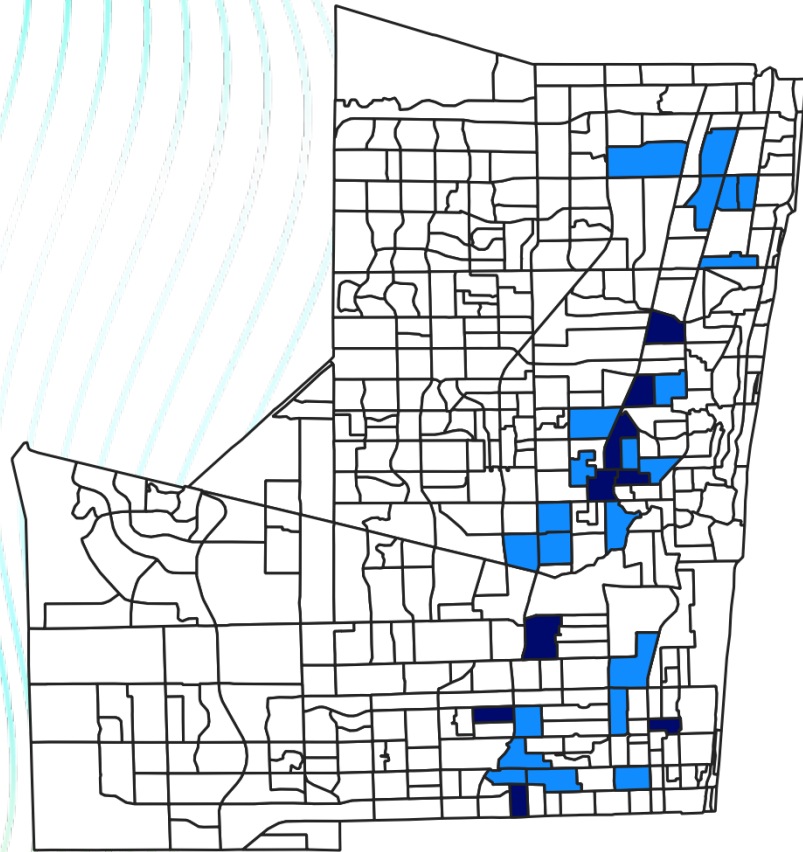
Broward County's **adaptation efforts will be of critical importance**, given the baseline results



Adaptation options will allow for comparison against this baseline to **quantify return on investment** across the economy

Interim Results (Baseline/No adaptation actions considered)

Substantial flood damage could affect 41% more vulnerable people by 2050

Census tracts with substantial flood damage and vulnerable population, total SVI metric^{1,2}



-  High-risk areas under current SLR
-  Additional high-risk areas under 2.0ft SLR

By 2050, high flood damage could be experienced by

Number of affected people (% of total vulnerable population in municipality)



45,000 (86%)

below 150% poverty population in Fort Lauderdale



33,000 (88%)

elderly population in Fort Lauderdale



51,000 (53%)

minority population in Dania Beach

1. Vulnerable people are defined across 16 metrics in the [SVI database](#) for state of Florida. Total SVI metric is composed of all 16 metrics of vulnerability.
2. High flood damage census tracts are defined as being in the top quartile of current flood property damage, across all census tracts in Broward County.

Source: Hazen and Sawyer for flood modeling and damages; Center for Disease Control and Prevention's Social Vulnerability Index

Risk Assessment and Resilience Plan

Outreach: Listening Sessions



Urban League of
Broward County

Neighborhood Meeting - December 20, 2023



COMMUNITY
FOUNDATION
OF BROWARD

Staff Focus Group - October 31, 2023



MUSEUM OF DISCOVERY AND SCIENCE
AutoNation **IMAX 3D** Theater

Student Focus Group - November 14, 2023



Staff (and member) Focus Groups - TBD

Climate Policy Updates – Heat Resolution

- Broward County Heat Resolution
 - Resolution 2023-421 - Approved on 10/10/2023 as Item #22
 - Recommended by CCTF
 - Co-sponsored by Vice-Mayor Rich and Commissioner Furr
 - Thank you!!!



Policy Updates – Under 2 MOU

- 2021 Global Climate Leadership
 - First supported in 2017
 - County Commitment to clean energy fleet
 - 2021 Update - Reaffirmed County support and approved on 10/24/2023 as Item #50
 - Sponsored by Commissioner Furr
 - County to engage in Under 2 convenings at COP 28



Annual Broward Leaders Resilience Roundtable

- Friday, October 6, 2023, at Long Key Nature Center in Davie
- 81 attendees
 - Hosted by Senator Rich and Commissioner Furr
 - Attended by County Administrator Monica Cepero
 - Representation by the Seminole Tribe
 - Officials from 28 municipalities
 - Guest speakers
 - U.S. Army Corps of Engineers
 - South Florida Water Management District
 - Fort Lauderdale Chamber of Commerce

2023 Top Themes:

Collaboration – Tiered Planning – Implementation





Procurement Update

- Net Zero Plan - Advertised
- EV Charging Infrastructure Strategy –
 - Pending Approval 12/12/23
- EV Software – In Negotiations
- Contaminant Modeling
 - Proposals under evaluation
- Solar Energy Loan Foundation
 - Sole Source request in process
- Underwater: Broward
 - Kicking Off!



The Underwater: Broward

- Partnership with climate artist Xavier Cortada
- Integration of climate and art in the delivery of a high impact public engagement program
- Designed to educate, convene, and motivate
 - environmental,
 - community, and
 - public health



Public School Engagement

- Artist-led workshops across 10 Broward County Public Schools in 2023 - 2024
- Students research their elevation and artist guides the creation of elevation markers
- At least 100 personalized elevation markers to be created by students at each event



Underwater: Broward Timeline

Dates subject to shift depending on circumstance

Project Kickoff
Nov. 6, 2023

Townhall Event
Early 2024

School Workshops
Spring Semester

School Engagement
Preparations
(current)

Water Matters Day
Bus Wrap Reveal
March 9, 2024

Sculpture Unveiling
April/May 2024

Mural Installations (Throughout)

Social Engagement (Throughout)

15th Annual Regional Climate Leadership Summit



The screenshot shows the homepage of the 15th Annual Southeast Florida Climate Leadership Summit. At the top, there is a navigation menu with links for Home, Agenda, Speakers, Sponsors, Venue, Logistics, and Register. The main header features the Southeast Florida Regional Compact Climate Change logo, a map of Florida, and the event title. Below the header, the dates (Nov 16 - 17, 2023) and location (Miami Beach Convention Center) are displayed. A paragraph of text describes the summit's purpose and theme. A small image of a building is visible at the bottom right of the page.

SOUTHEAST FLORIDA REGIONAL COMPACT CLIMATE CHANGE

15th Annual Southeast Florida Climate Leadership Summit

SOUTHEAST FLORIDA REGIONAL COMPACT CLIMATE CHANGE

Southeast Florida Regional Climate Leadership Summit

Register Event App

Nov 16 – 17, 2023 | Miami Beach Convention Center

The Annual Climate Leadership Summit is a major regional event hosted by the [Southeast Florida Regional Climate Change Compact](#) to share knowledge, showcase climate action, engage leadership across sectors, and mobilize the collaboration needed to tackle this significant challenge at scale. This year's theme *Transformative Climate Action* will inspire

Speakers



Duanne Andrade

Executive Director
Solar and Energy
Loan Fund



Dale Andree

ArtSail



Yoca Arditi-Rocha

Executive Director
The CLEO Institute



Suzee Bailey

Founder Residents
for Resilience
Residents for
Resilience



Drew Bartlett

Executive Director
South Florida



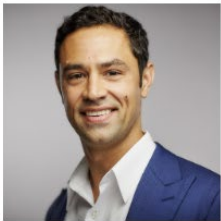
Michael Berkowitz

Climate Resilience



Pamela Berkowsky

President/Senior



Kieran Bhatia, Ph.D.

Vice President,

Summit Session Highlights

- State of Climate – Dr. Ben Kirkman
- Seaside Chat – Victoria Salinas, Deputy Director, FEMA
- Weathering the Storm – Insurance
- Its Electric
- Negotiating Resilience – Partnering with the Private Sector
- Keynote: Michael Conner, Asst Secretary of the Army for Civil Works
- Inspiring Activism through Art
- Grass Roots Efforts
- Teen Talk: There's no Planet B, and I'm not Moving to Mars
- Resilient Water Management



Collaboration on Economic Resilience



Communications

- The latest issue of our “Resilience!” newsletter was in your mailbox in early October
- Focused on Heat and the County’s planning efforts
- Spotlights:
 - CITY Furniture
 - Broward County Public Schools



Engagement and Advocacy

- Florida Climate Educators Network
- Palm Beach County Economic Development Council
- SB 102 – Live Local – Legislative Briefings
- White House Climate Summit - Roundtable
- Regional Collaboratives Lunch and Learn
- Florida APA
- Travelers Insurance Institute
- Senate Committee on Environment and Public Works
- National Institute of Standards and Technology - Sea Level Rise Scenarios
- Univision Podcast



Questions ?

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Resilient Environment Department

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RESILIENT
ENVIRONMENT

