

IS FLORIDA RESILIENT ENOUGH?



Transportation, Growth and Infrastructure Summit
Hollywood, FL

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CHIEF RESILIENCE OFFICER ROLE



Develop **strategic resilience goals** for protecting coastal communities and fortifying infrastructure for continued state prosperity

Coordinate **statewide policy** to prepare for impending environmental, physical, and economic challenges

Advocate for **high-priority resilience** initiatives throughout the state in order to better **integrate resilience planning** at all levels

Partner with **state agencies** (FDEP, FDOT, FDEM, FDACS, FWC, DEO), **local communities and stakeholders**

WHY BE RESILIENT?

NOAA SLR PROJECTIONS



SEA LEVEL RISE

1.5ft of SLR by 2030 and 4ft of SLR by 2060 (NOAA EXTREME SCENARIO)

MEXICO BEACH, FL 2017



PHOTOS: NOAA

MEXICO BEACH, FL 2018 (POST HURRICANE MICHAEL)



HURRICANES

120 direct hits to all Florida coasts since 1851, most in the US (NOAA)

DAMAGE FROM 25 INCHES OF RAIN COLUMBIA COUNTY

PHOTO: FEMA



FLOODING

Florida has 2,555 miles of roads, 3 feet below the high tide line, at risk to flooding (Climate Central)

ECONOMIC IMPLICATIONS

Hurricane Irma Impacts:

\$50B IN DAMAGE

Hurricane Irma destroyed 25% of the keys

\$2.5B LOST

From destruction to Florida's crops

\$27B BUSINESSES IMPACT

Across all counties in Florida

\$2.5B TOURISM INDUSTRY IMPACT

Associated with less visitor spending

Florida has \$2.86 trillion insured property vulnerable to hurricanes

Response to sea level rise and flooding in Florida may cost \$76B by 2035



DISASTER MITIGATION

BRIC allows FEMA to invest grant funds in infrastructure projects before a disaster affects an area

RECOVERY COMMITMENT

Governor DeSantis efforts:

\$1B FOR RECOVERY

Awarded by FDEM for hurricane recovery

\$28M INVESTED

In Northwest Florida, one year after Michael

\$1.2M TO STUDY EVACUATIONS

As part of the Bolder, Brighter, Better Future budget – the Governor has committed funds for several recovery efforts, including proactive planning

SOURCE: FDEM





Looking ahead to prepare for the future



MORE INTENSE/FREQUENT RAIN

Increasing daily downpours and flooding



HIGH INTENSITY HURRICANES

Increase of up to 10% in destruction potential and higher rainfall rates



MORE TIDAL FLOODING

Tidal flooding has increased 352% since 2000



PHOTOS: PIXABAY

FLORIDA'S FUTURE (2030)



Population
increase from
21 Million to
26 Million



Employment
increase from
8.6 Million to
10.1 Million



Visitor
increase from
126 million to
175 Million



Economy - \$1
trillion GDP
today
**Continued
Prosperity**

We have a lot at stake.....



RESILIENCE SOLUTIONS

Ability of physical,
social, environmental,
& governmental assets
to absorb, recover, &
adapt to adverse
events

This has to be our approach



FLORIDA RESILIENCE IS TAKING SHAPE

State agencies are beginning to incorporate resilience into infrastructure planning

- FDEP Florida Resilient Coastlines Program
- FDOT Resiliency Primer/ Strategic Intermodal System Vulnerability and Risk Assessments
- Florida Ports Council Seaport Resilience Report

Local & regional investment efforts are occurring

- Miami Beach is investing \$400 million toward seawalls and other mitigation
- Fort Lauderdale has a \$1 billion stormwater plan for increased flooding
- Hillsborough County and south Florida communities have invested in Vulnerability Assessments to find at risk infrastructure



FLORIDA 2030 TARGETS & STRATEGIES

Florida 2030 Goal: All Florida residents protected by resiliency plans

Support and incentivize communities to complete **vulnerability assessments** and develop resilient redesign efforts.

Identify and implement actions to improve **Adaptation Action Areas** throughout Florida for coastal communities at risk.

Encourage and incentivize communities to enter the **Community Rating System (CRS) program** and reduce their CRS score, making them less vulnerable and reducing flood insurance costs for property owners.

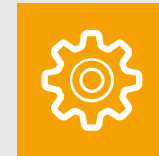
Make **science-based decisions** about how to protect, increase responsiveness, and invest in regions and communities at risk from extreme weather, coastal flooding, and other dangers.



CALL FOR ACTION



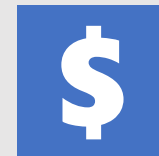
Collaboration



Strategic & Tactical Plans



Legislative Actions



Funding and Implementation

Let's Create Resilient Communities & Infrastructure



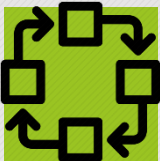
ROLE OF BUSINESS LEADERS



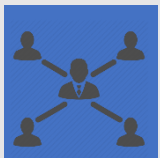
Prepare Workforce



**Build Safer and Smarter
Facilities/ Systems**



Secure Supply Chain



Connect with Community



Act and Advocate



Leading the way in community resilience

