



RESILIENCE ACTION PLAN

presented to

*Resilience Action Plan
Public Comment
Webinar*

presented by

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Office of Policy Planning*

May 25, 2023



RESILIENCE ACTION PLAN



STATE HIGHWAY SYSTEM




ATTENDEE PARTICIPATION PANEL



Attendees are automatically muted throughout the webinar



Click the  to open the panel box and submit a question



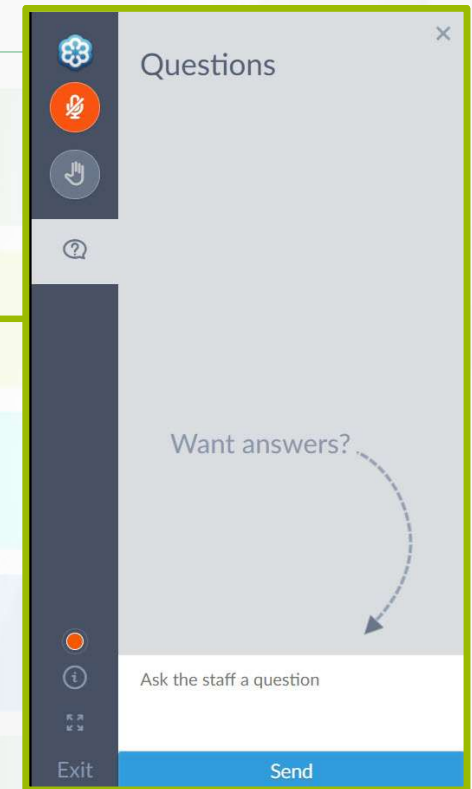
Questions will be answered either verbally or in the question box



The webinar is being recorded and will be available with other materials on the Resilience Action Plan website



Please complete the follow up survey that will be sent via email at the conclusion of this webinar



MISSION

The Florida Department of Transportation is committed to providing a safe transportation system that ensures the mobility of people and goods, enhances economic prosperity, and preserves the quality of our environment and communities.





FLORIDA'S COMMUNITY TRENDS & CONDITIONS

FLORIDA HAS A POPULATION OF

22.2 MILLION

TODAY, RANKING

3RD

AMONG
THE STATES

Source: Bureau of Economic and Business Research (BEBR).



FLORIDA'S

65+ POPULATION

IS PROJECTED TO

GROW BY

73%

BY 2045

Source: BEBR.



15 MILLION
PEOPLE

[3 IN 4]
FLORIDA
RESIDENTS

LIVE IN A
COASTAL
COUNTY

Source: US Census.



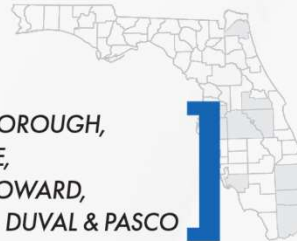
60% **OF POPULATION**
GROWTH

BETWEEN 2021 AND 2050 IS
PROJECTED TO BE CONCENTRATED IN

10 COUNTIES

Source: BEBR.

[ORANGE, HILLSBOROUGH,
MIAMI-DADE, LEE,
PALM BEACH, BROWARD,
POLK, OSCEOLA, DUVAL & PASCO **]**



THE TOTAL NUMBER OF

OUT-OF-STATE
VISITORS

TO FLORIDA IS PROJECTED TO

INCREASE

55% BETWEEN
2019 AND 2031

Source: Economic Demographic Research.



FLORIDA IS PROJECTED TO ADD

548 NET **NEW PEOPLE PER DAY**
BETWEEN 2021 AND 2050

Source: BEBR.

FLORIDA'S TRANSPORTATION SYSTEM

 **12,121** CENTERLINE MILES OF SHS

 **19** COMMERCIAL SERVICE AIRPORTS

 **8** ACTIVE SPACEPORT LAUNCH SITES

 **2,738** MILES OF MAINLINE RAILROAD TRACK

 **4,850** BRIDGES ON SHS

 **16** PUBLIC SEAPORTS

 **30** URBAN TRANSIT SYSTEMS

 **18** RURAL TRANSIT SYSTEMS

Source: FDOT Florida Transportation Fast Facts.

FLORIDA TRANSPORTATION PLAN

SAFETY AND SECURITY FOR RESIDENTS, VISITORS, AND BUSINESSES

TRANSPORTATION SOLUTIONS THAT ENHANCE FLORIDA'S ENVIRONMENT



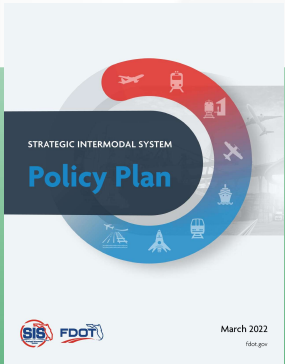
AGILE, RESILIENT, AND QUALITY TRANSPORTATION INFRASTRUCTURE

TRANSPORTATION SYSTEMS THAT ENHANCE FLORIDA'S COMMUNITIES

CONNECTED, EFFICIENT, AND RELIABLE MOBILITY FOR PEOPLE AND FREIGHT

TRANSPORTATION SOLUTIONS THAT STRENGTHEN FLORIDA'S ECONOMY

TRANSPORTATION CHOICES THAT IMPROVE ACCESSIBILITY AND EQUITY



RESILIENCE FOCUS IN FLORIDA

- Sea Level Impact Projection (SLIP) Studies
- Resilient Florida
- Florida Flood Hub
- Statewide Office of Resilience/Chief Resilience Officer
- FDOT Resilience Action Plan (RAP)



STATE LEGISLATION

CS/HB 7503 (Section 339.157, F.S.)

➔ FDOT Resilience Action Plan (RAP)

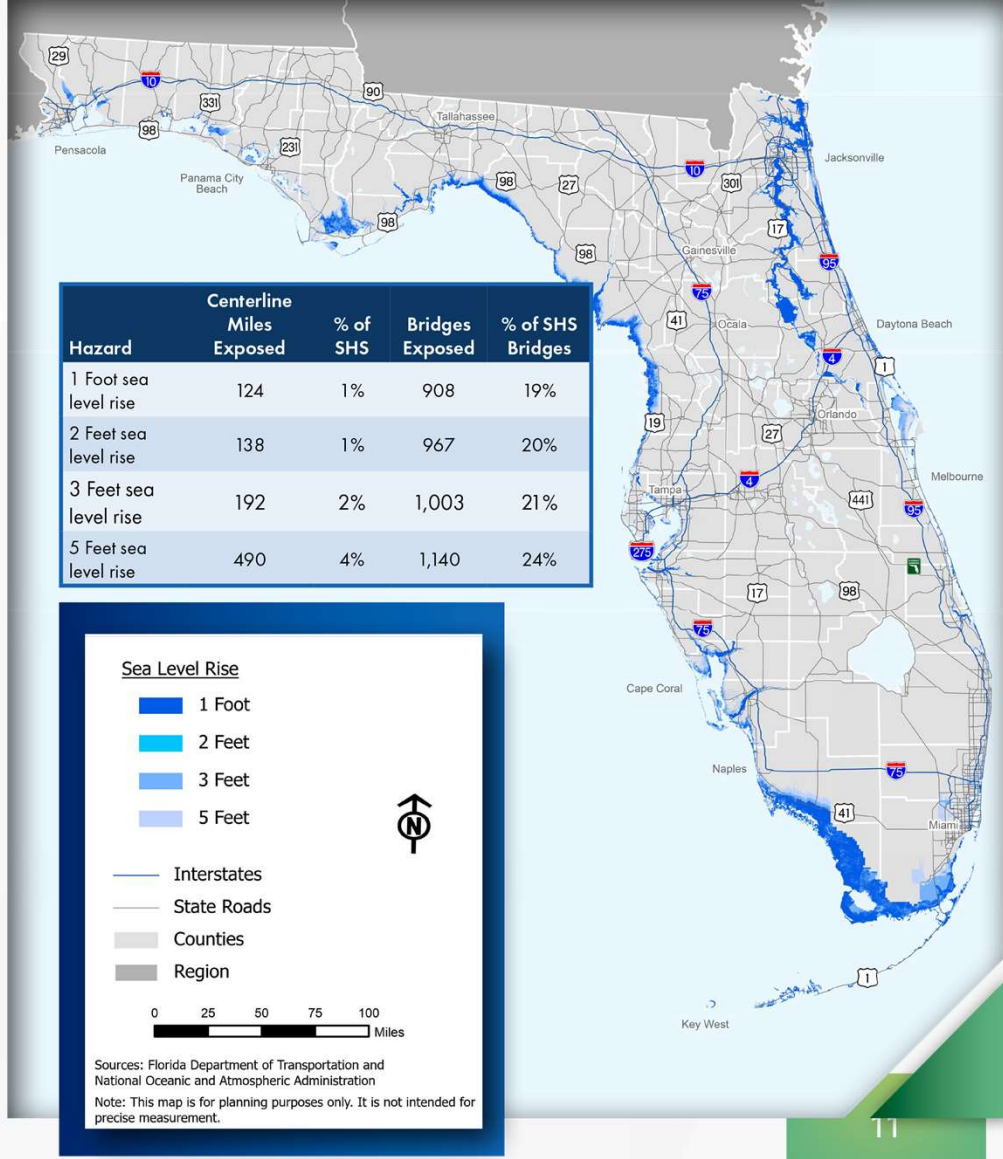
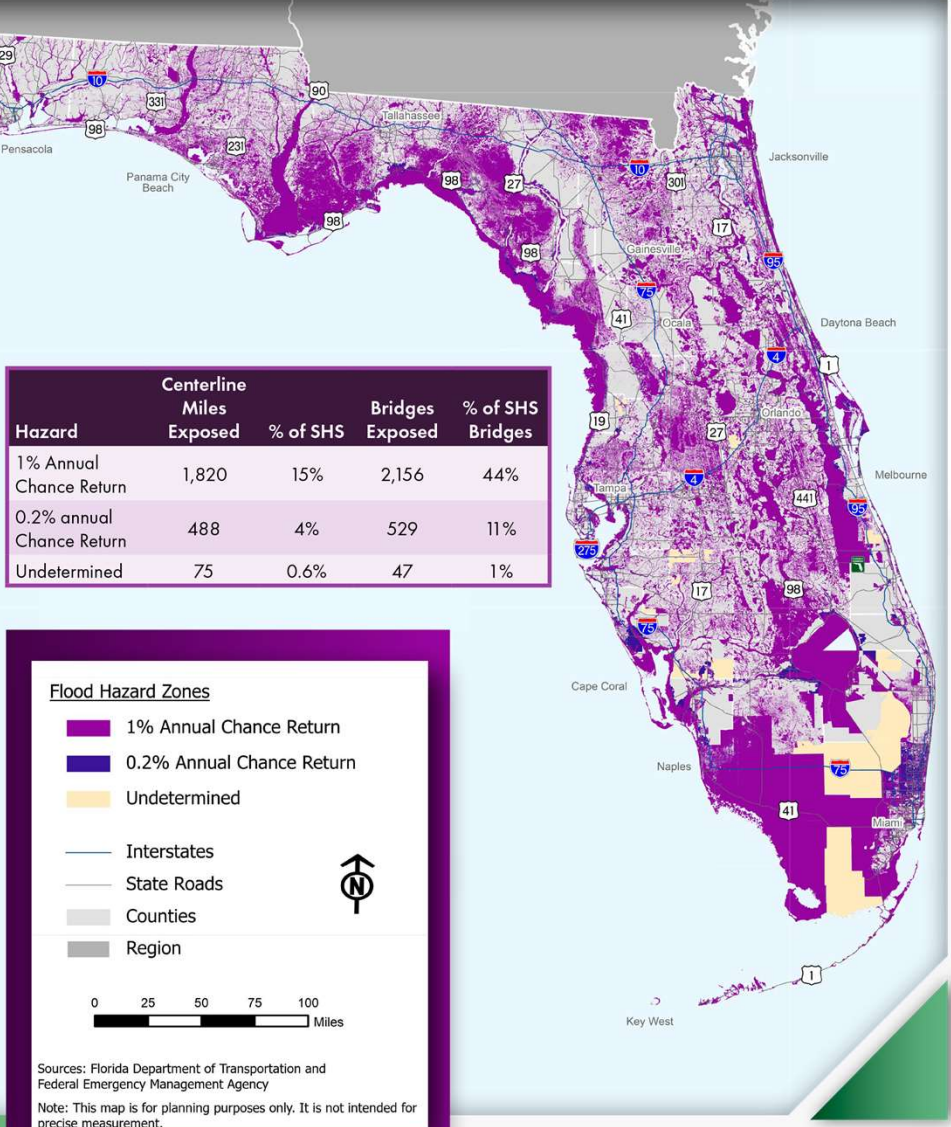
- Enhance infrastructure and operational resilience
- Design retrofits and construct highway facilities
- Enhance partnerships to address multijurisdictional needs



APPROACH



- Leverage existing resources
 - Capability Maturity Framework
 - Existing Resilience Strategies
 - Internal & Community Collaboration
 - Technical Advisory Team
 - MPOs & Regional Collaboratives
 - FL Chief Resilience Officer
 - GIS data

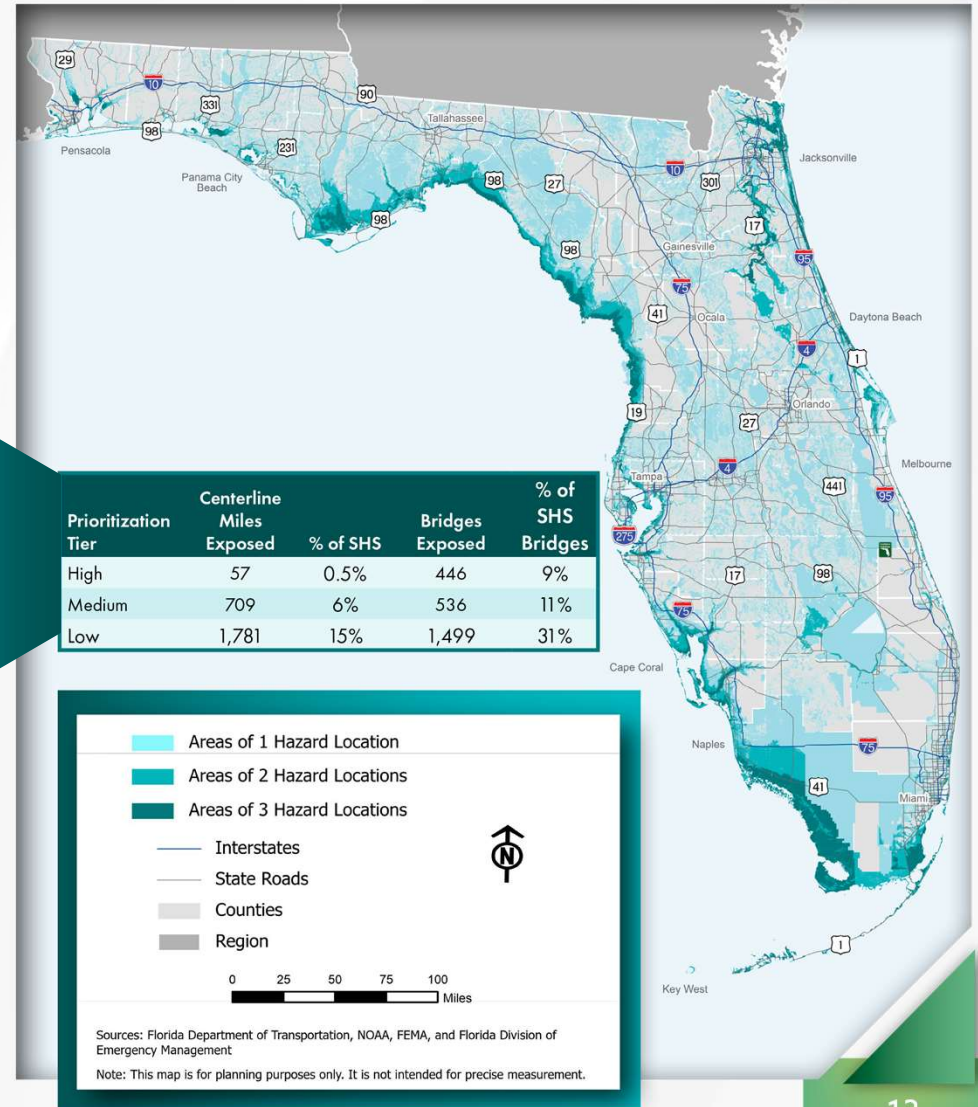


VULNERABILITY TIERS

VULNERABILITY	HAZARDS AFFECTING A GEOGRAPHIC AREA		
	1% CHANCE OF FLOODING (100-YEAR FLOOD ZONE)	2 FEET OF SEA LEVEL RISE	CATEGORY 3 STORM SURGE
High	Geographic areas affected by all three hazards		
Medium	Geographic areas affected by any two of the three hazards		
Low	Geographic areas affected by any one of the three hazards		

VULNERABLE AREAS

Prioritization Tier	Centerline Miles Exposed	% of SHS	Bridges Exposed	% of SHS Bridges
High	57	0.5%	446	9.2%
Medium	709	5.8%	536	11.1%
Low	1,781	14.7%	1,499	30.9%



RESILIENCE PROJECT LIST

PROJECT COST SUMMARY BY TIER

Tier	Exposed SHS Centerline Miles	Exposed Bridge Centerline Miles	Total Number of Projects	Number of Projects in 5-Year Work Program	Total Cost Currently Programmed in 5-Year Work Program (Millions of \$)	Average Cost per Project (Millions of \$)
High	57	46	41	32	\$411.25	\$10.89
Medium	709	61	116	38	\$203.15	

RESILIENCE STRATEGIES



PLANNING

**PROJECT DEVELOPMENT
& ENVIRONMENT**



**DESIGN, MATERIALS,
& CONSTRUCTION**

**TRAFFIC OPERATIONS
& EMERGENCY MANAGEMENT**



**ASSET MANAGEMENT
& MAINTENANCE**

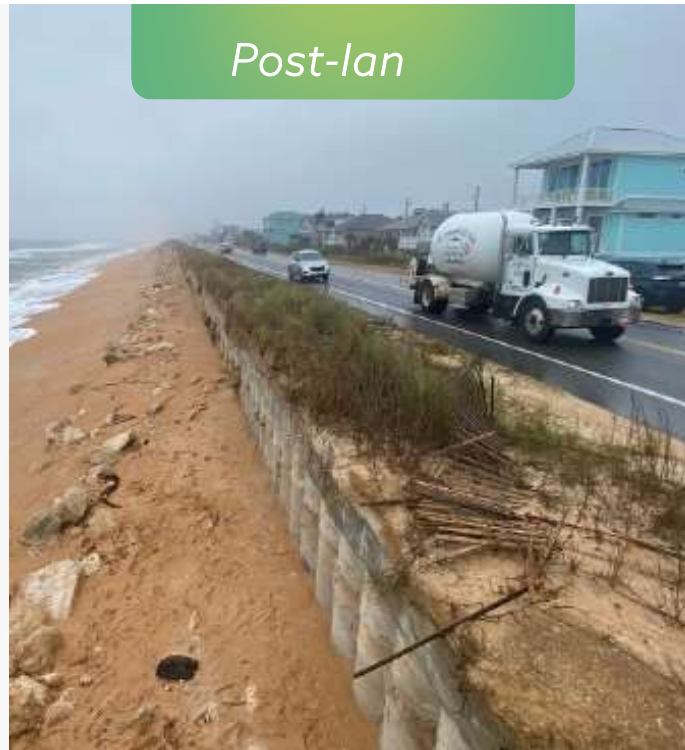
INHERENT RESILIENCE

- Design criteria
- Stormwater/drainage design procedures
- Nature-based solutions
- Context sensitive, complete streets
- Local partner coordination

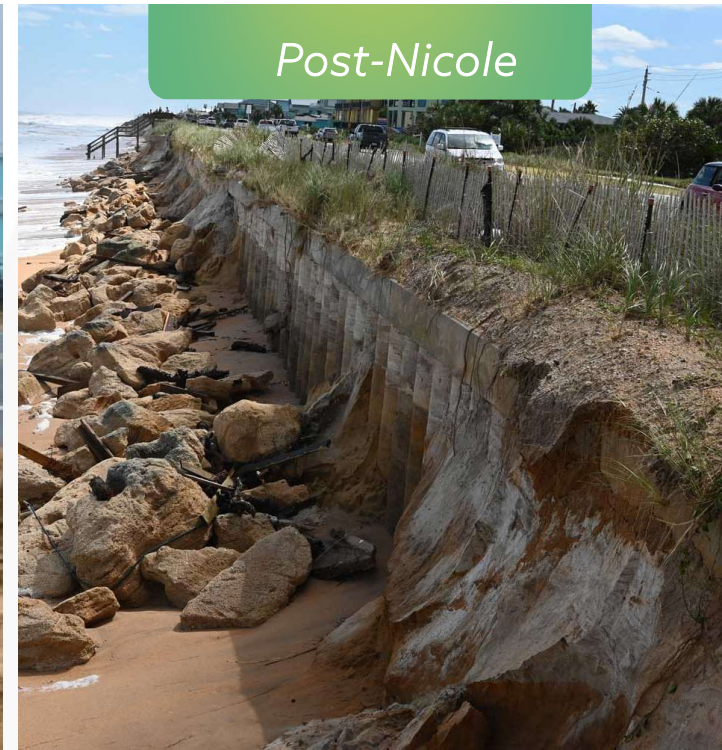




Pre-Ian



Post-Ian



Post-Nicole

SR A1A HURRICANES IAN & NICOLE

- Nature-based hybrid solution
- Dune washed away, but buried secant-pile bulkhead/seawall
- Protect transportation facility from storm-related wave action and erosion

IMPLEMENTATION

- Plan monitoring and updates
- Integration into other plans and guidance
- Data and tools
- Training and communication
- Internal coordination
- Community collaboration



HOW TO COMMENT

Draft Resilience Action Plan is available here:



Three Ways to Comment on the Draft Plan

- ✓ Comment or ask questions in this session
- ✓ Comment using the linked comment form by 6/8/2023:
<https://www.surveymonkey.com/r/RAPCommentPeriod>
- ✓ Email comments to resiliency@dot.state.fl.us by 6/8/2023

NEXT STEPS

- Public Comment Period
 - May 25, 2023 - June 8, 2023
 - Public Webinar: May 25, 2023 (recorded)
- Submit to Governor and Legislature by June 30, 2023
- Enhance Resilience Action Plan to meet requirements of federal Resilience Improvement Plan



Don't Drive Into the Unknown.....



.....Stay Away from Flooded Streets!

For more information, please contact:

Jennifer Z. Carver, AICP



Jennifer.Carver@dot.state.fl.us



850-414-4820

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