



# SEA LEVEL RISE RESILIENCY IN BREVARD COUNTY



For more information about the Space Coast  
Transportation Planning Organization's resiliency planning go to  
<https://www.spacecoasttpo.com/what-we-do/planning/resiliency-planning>

# Roadways in Brevard County are exposed to risks from sea level rise today and in the future.

The Transportation Resiliency Master Plan (RMP) identifies a baseline for the impacts of sea level rise and other natural hazards on roads in Brevard County. This booklet summarizes key takeaways and impacts identified in the Transportation RMP.

## What does sea level rise impact?



### Inundation

Low lying parts of Merritt Island and portions of the barrier islands are expected to be inundated by seawater by 2100.



### Hurricanes

Rising seas make hurricanes and other storms more dangerous through higher storm surges and increased flooding.



### Inland Flooding

A higher water table and submersion of stormwater outfalls increases inland flooding.



### Movement of People and Goods

Sea level rise inundates roads that serve as delivery routes of goods and services. It will impact roads that provide access to critical regional assets.

### Satellite Beach prepares for possible sea level rise

City moving fire station, public works codes ahead of 2070



SATELLITE BEACH, Fla. – Take in the surf and beautiful coastline. City Manager Courtney Barker has lived there since she was a child.

"It's paradise," she said. "We have a beautiful beach, we have a great community."

Barker said this special place faces a threat, though: rising sea levels.

...that we take care of people.

## Planned projects offer opportunities to include resiliency elements to address sea level rise.

**8** projects in the Long Range Transportation Plan, Cost Feasible Plan are on roads anticipated to be impacted by sea level rise

**9** upcoming FDOT resurfacing projects are on roads anticipated to be impacted by sea level rise

**More funding opportunities than ever before are available from the federal and state government!**

**29%**  
of roads in  
Brevard are  
impacted

**Prepares for  
rise of 3 feet**

...s, changing construction



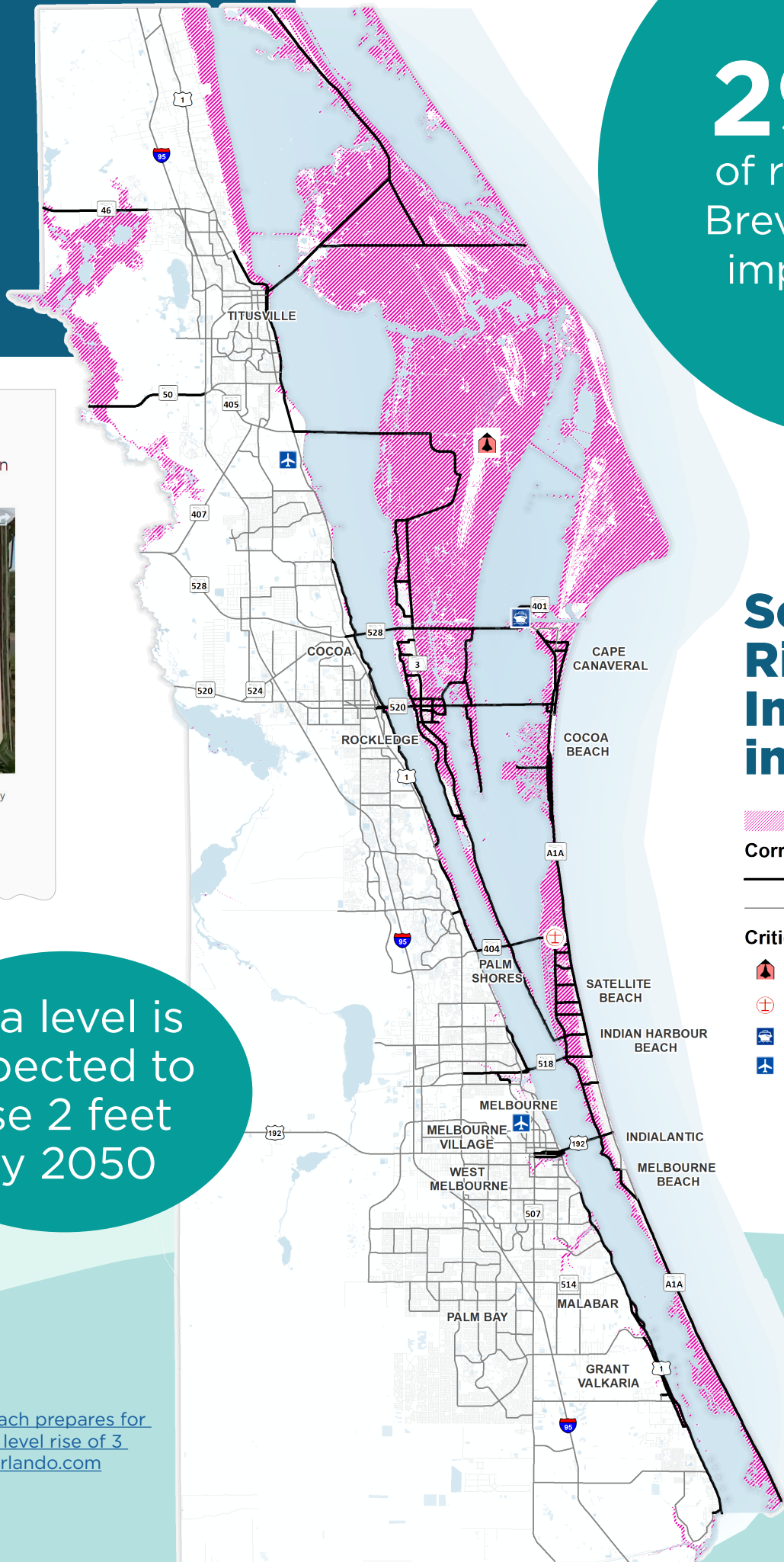
...ine of Satellite Beach, and one can see why

...child.

...beautiful rivers, it's just a special place."

Sea level is  
expected to  
rise 2 feet  
by 2050

["Satellite Beach prepares for possible sea level rise of 3 feet", ClickOrlando.com](#)



**Sea Level  
Rise  
Impacts  
in 2100**

Sea Level Rise (2100)

**Corridors**

Impacted

Not Impacted

**Critical Regional Asset**

Kennedy Space Center

Patrick Space Force Base

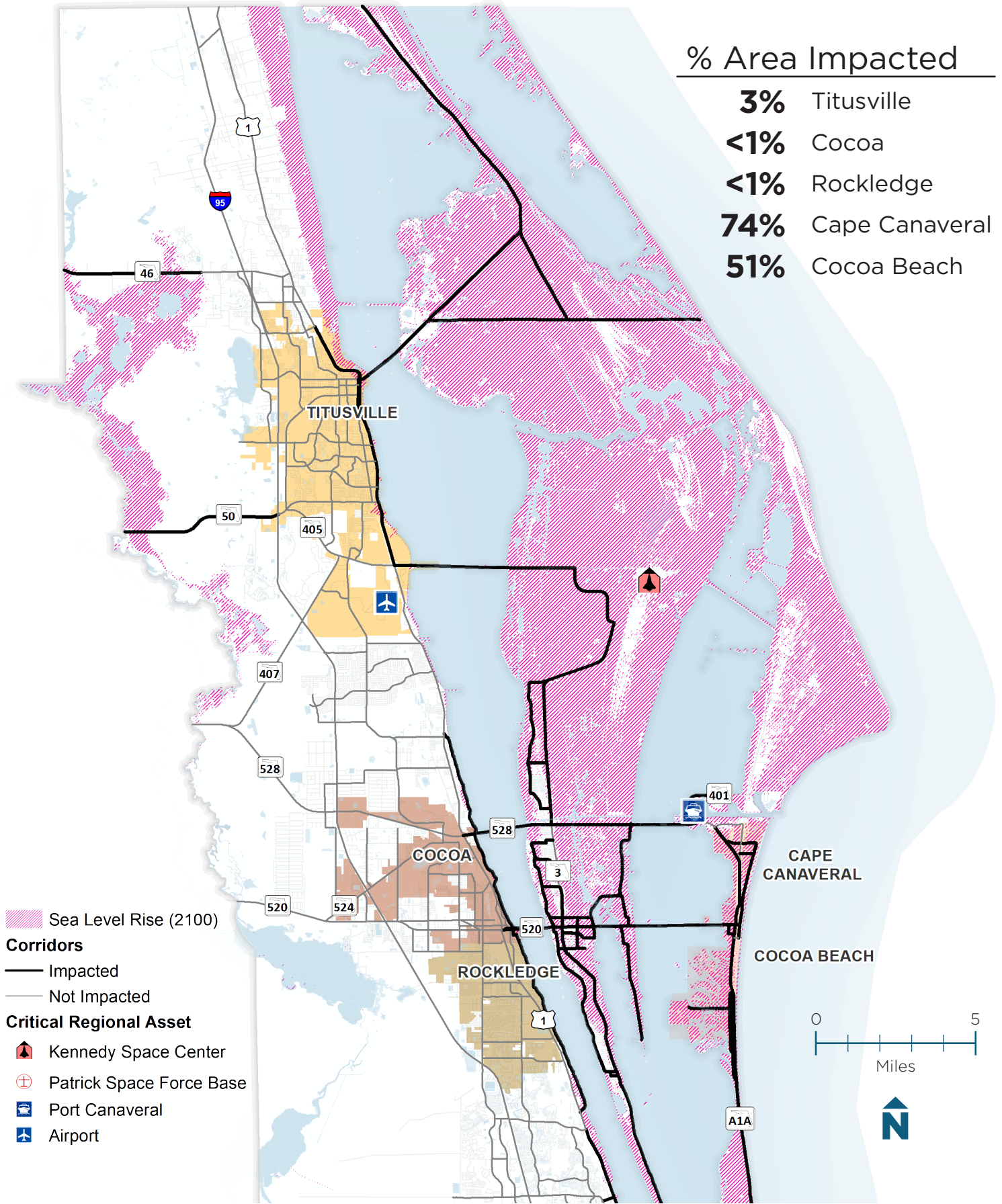
Port Canaveral

Airport

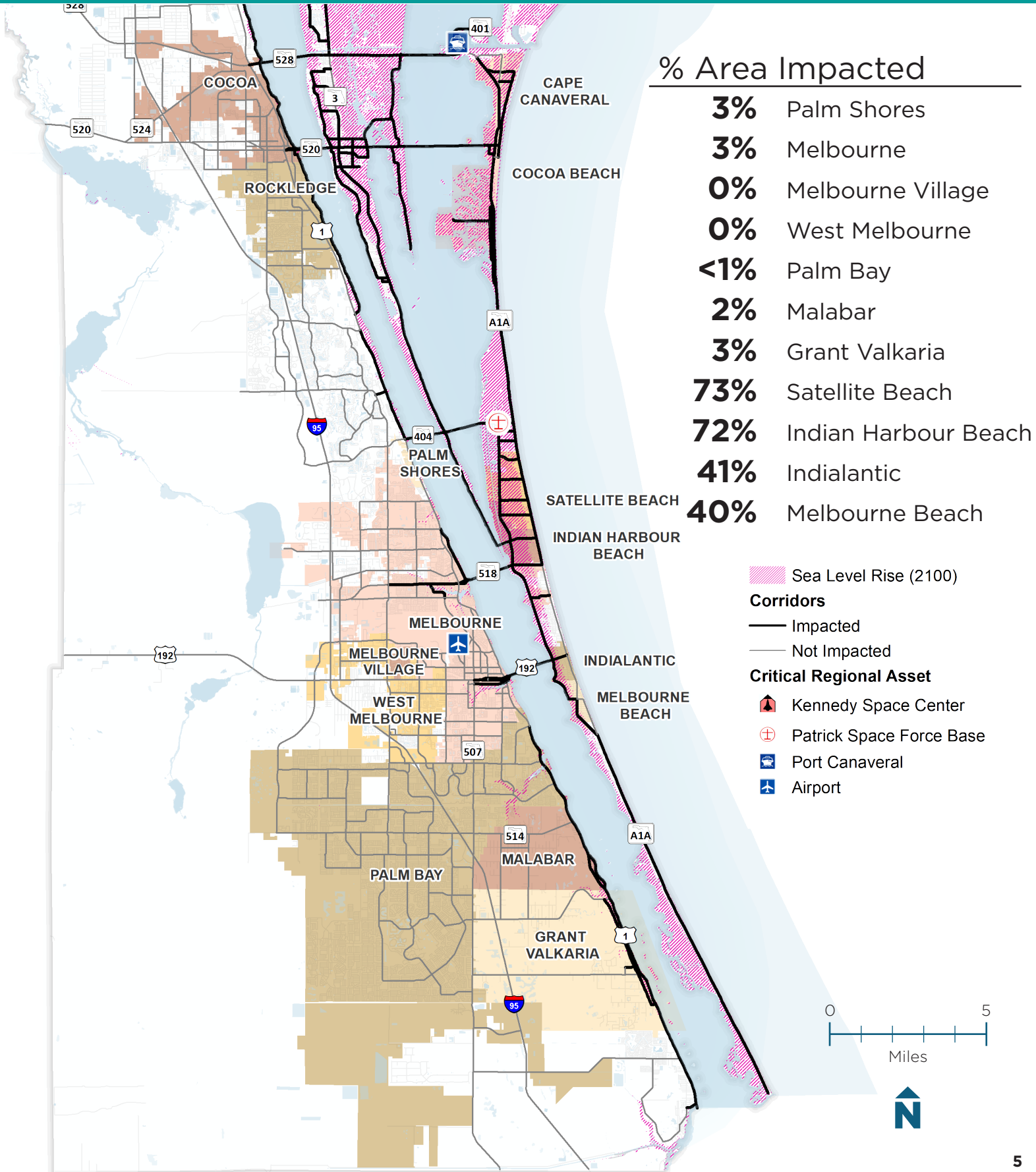




# Percentage of Incorporated Area Impacted by Sea Level Rise in 2100



Want to zoom in? Turn layers on and off?  
 Try the online map at <https://arcg.is/OTvOq8>



# Communities in Brevard County are impacted differently by sea level rise.

## A resilient transportation system serves everyone in Brevard County.

### In Brevard County:



**1 in 4**

(137,000) residents are over the age of 65



**1 in 3**

(66,000) households include someone with a disability



**1 in 3**

(175,000) residents live below or near the poverty line



**1 in 20**

(11,000) households do not have a car

Source: 2019 American Community Survey

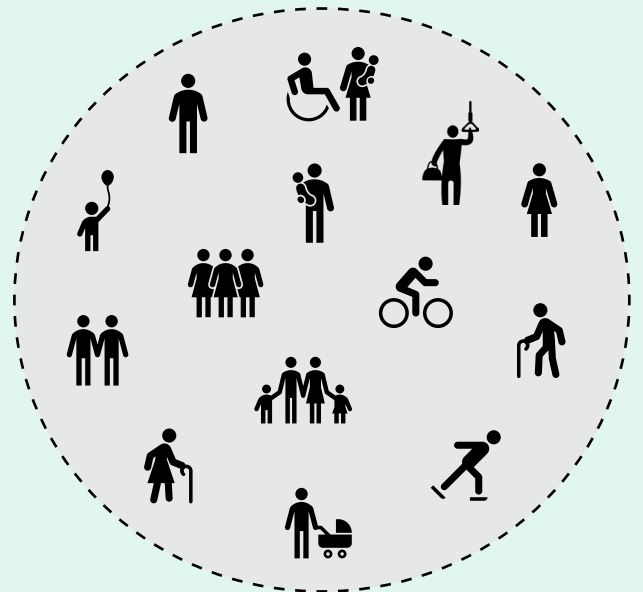


**585,507**

people live in 230,417 households



Resiliency projects consider the needs of **everyone**



## Methodology

The Transportation RMP followed a two-step process to identify roads impacted by sea level rise in Brevard County.

**1**

**Identify Impacted Areas:** The NOAA 2100 Sea Level Rise High Curve identifies areas that are expected to be covered by the sea in 2100.

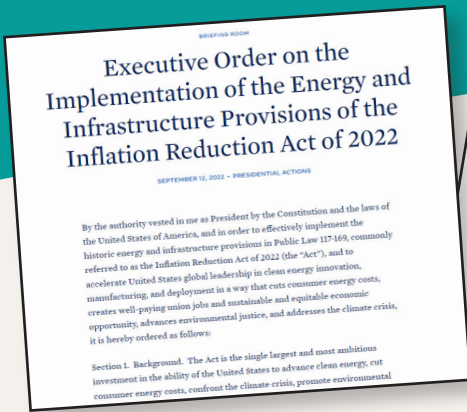
**2**

**Identify Impacted Roads:** Roads that go through impacted areas are identified as being impacted by sea level rise.

A more detailed explanation of the analysis methodology can be found in the Transportation RMP documentation.



# Funding for Transportation Resiliency is Available for Brevard County.



**Over \$200 Million in New Grants Beyond Programmed Funding**

**The Inflation Reduction Act** contains \$2.6 billion for nature-based coastal resilience projects, such as wetlands and seagrass restoration. The BIL's investment and focus on resilience continues the policy set in 2015's Fixing America's Surface Transportation (FAST) Act, requiring MPOs to consider resiliency in the transportation planning process.

**FHWA National Highway Performance Program (NHPP):** Added eligibility for measures that increase resiliency to the impacts of sea level rise, extreme weather events, flooding, wildfires, and other natural disasters

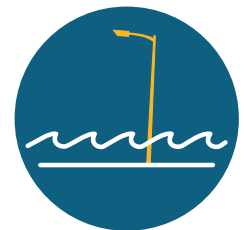
**Promoting Resilient Operations for Transformative, Efficient, and Cost-Saving Transportation (PROTECT) Formula Program:** MPOs in coastal states are eligible for at-risk coastal infrastructure grants for strengthening, stabilizing, hardening, elevating, relocating, or otherwise enhancing the resiliency of highway bridges, roads, pedestrian walkways, and bicycle lanes, and associated infrastructure.

**Rebuilding American Infrastructure with Sustainability & Equity (RAISE):** Opportunity to incorporate resiliency strategies to help urban and rural communities move forward on projects that modernize roads, bridges, transit, rail, ports, and intermodal transportation.

## PROGRAMMED RESILIENCY FUNDING OPPORTUNITIES

**Funding Sources with Added Focus/Eligibility for Resiliency**

**Resilient Florida: Planning Grants**  
Prioritizes the most vulnerable infrastructure to adverse impacts from flooding of rainfall events, storm surge, and sea level rise.

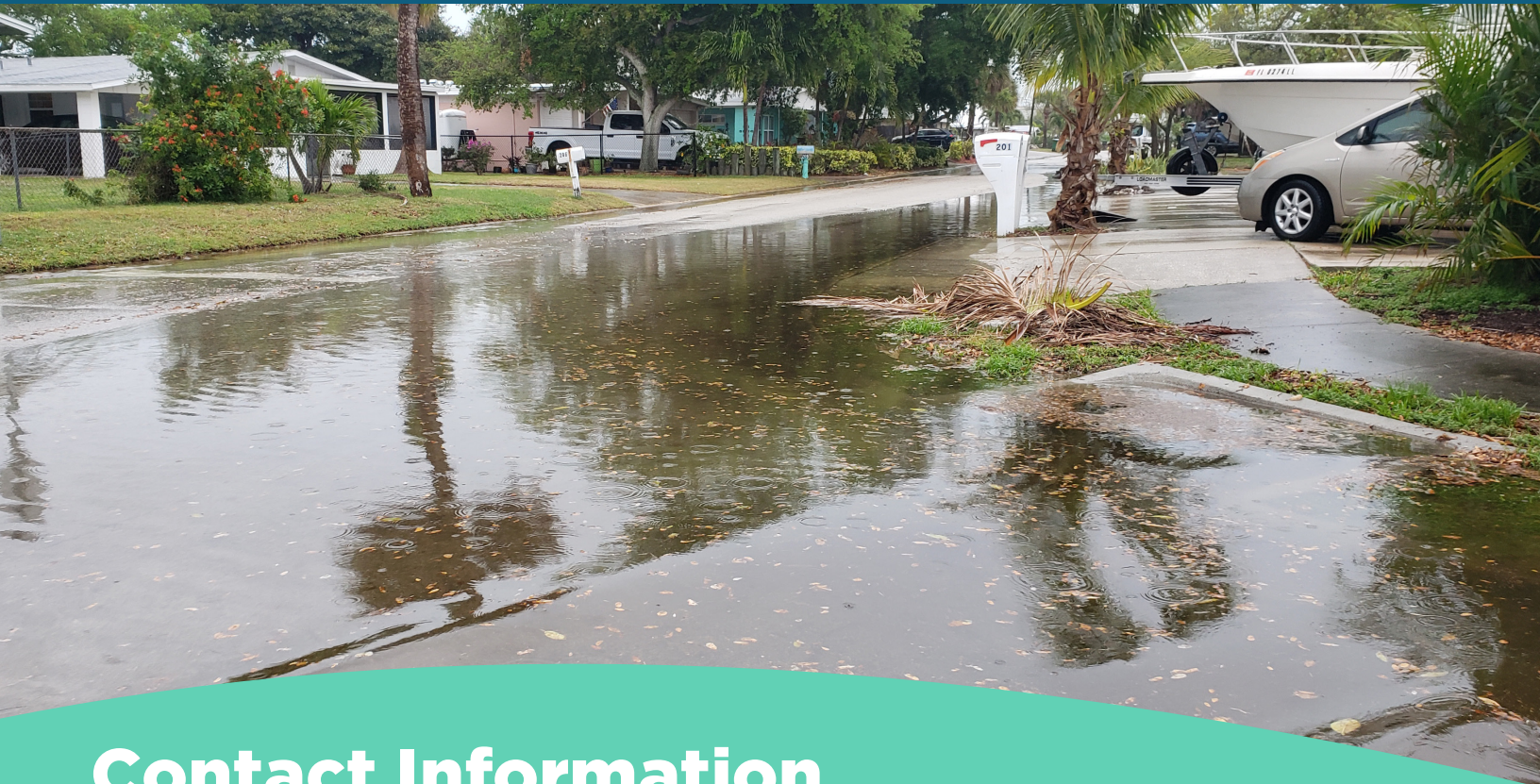


**Florida Resilient Coastlines Program (FRCP)** Grant funding for both Planning and Implementation projects that further coastal resilience.



**Community Planning Technical Assistance Grants**  
Used to assist with disaster recovery, resiliency, and economic development planning for rural and suburban areas.





## Contact Information

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 [https://www.spacecoasttpo.com/what-we-do/  
planning/resiliency-planning](https://www.spacecoasttpo.com/what-we-do/planning/resiliency-planning)