

Resilient Tampa Bay Transportation



Hillsborough MPO
Metropolitan Planning
for Transportation



RESILIENT TAMPA BAY: Transportation Pilot Background

- A 2014 federal report, the Third National Climate Assessment, labeled the Tampa Bay area as one of three areas in Florida particularly vulnerable to rising sea levels. (Tampa Bay Times, 10/5/18)
- An insurance industry group has ranked the Tampa Bay region as the most vulnerable metropolitan area in the United States to storm surge, with \$175 billion in potential losses. (Tampa Bay Times, 10/5/18)
- This initiative is one of 11 Federal Highway Administration Resilience and Durability to Extreme Weather Pilot Program projects to improve transportation infrastructure.
- Pilot's purpose is two-fold: 1) to address Fixing America's Surface Transportation (FAST) Act requirements for MPO long range transportation planning to consider way to improve the resilience and reliability of the transportation system, and 2) to provide information and recommendations to ensure the region's transportation system meets near and long term functional, economic, and quality of life goals of Tampa Bay's residents, businesses, and visitors.

www.fhwa.dot.gov/environment/sustainability/resilience/pilots/resdurpilot.cfm

» Key Facts

- 2.8 million persons
- 2nd largest population in Florida
- 1000+ miles of shoreline
- 58% population in flood zones
- 2,990 lane miles of roads in Hillsborough, Pinellas, and Pasco Counties potentially affected by Category 3 hurricane with sea level rise (2017 NOAA High projection)
- 1,214 lane miles of roads in Hillsborough, Pinellas, and Pasco Counties potentially affected by a rain even that results in 9 inches over 24 hours

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www.planhillsborough.org/resilient-tampa-bay-transportation/

Project Timeline



Stakeholder Engagement:

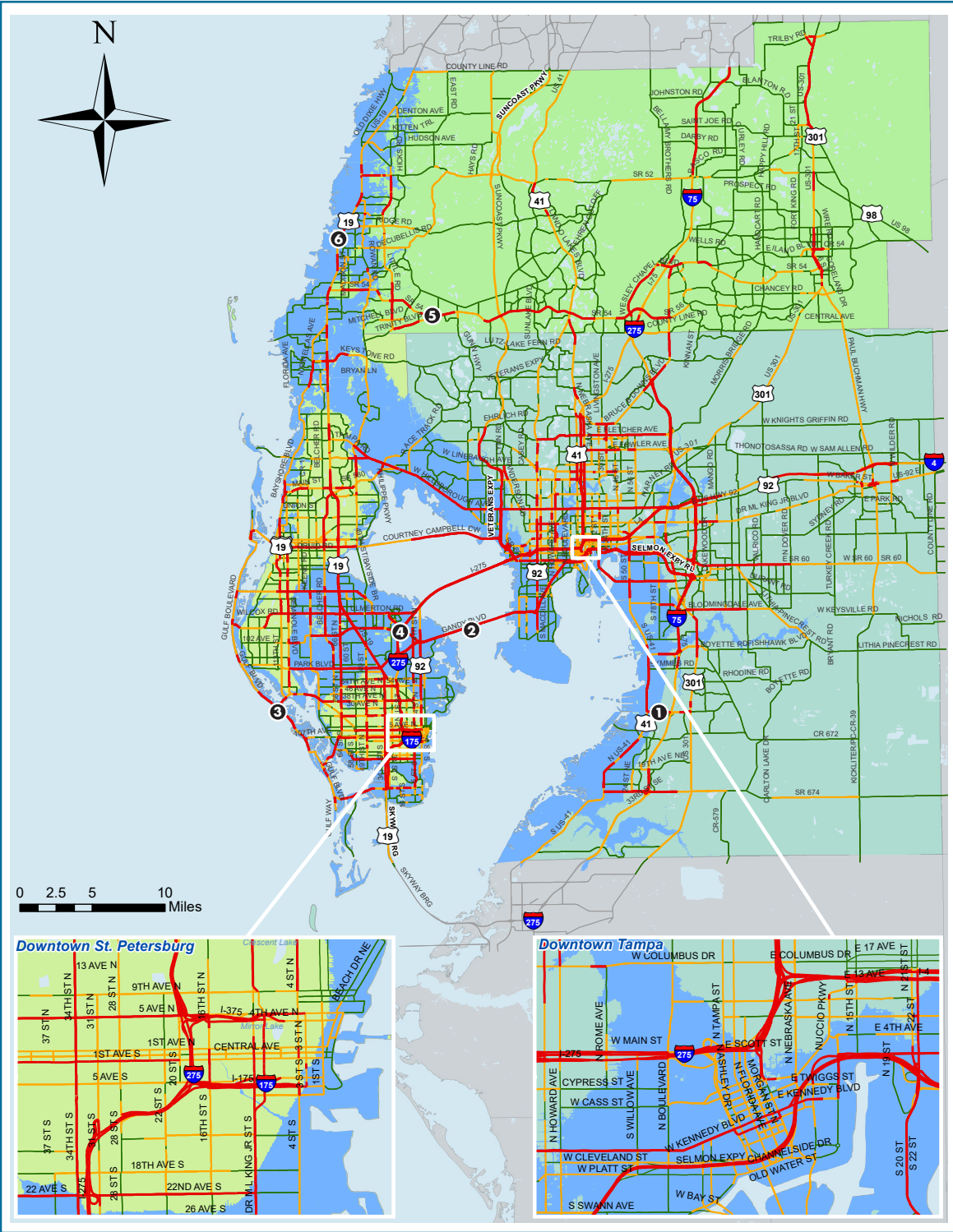
- ONE BAY Livable Communities Working Group
- Local Mitigation Strategy Working Groups (Hillsborough, Pasco, and Pinellas Counties)
- Hillsborough MPO, Pasco MPO, and Forward Pinellas Boards and Committees
- Criticality and Flooding Survey (agency and public stakeholders)

Critical Transportation Facilities and Category 3 Storm Surge with NOAA High Sea Level Rise Projection for 2045

The following information was used to determine criticality. Each factor was given a score from 1-3. Segments with scores greater than 13 are classified of “High” criticality. Those with scores of 11 through 13 are “Moderate” and the remainder are “Low” criticality.

Factor	Max
Evacuation Route	3
Projected 2040 Traffic volume	3
Proximity or primary route to major economic and social activity centers	3
Projected Population density	3
Transit Corridor	2
Part of adopted land use and/or transportation plans (ex. LRTP, TIP, SIS, National Highway Freight Network)	2
Projected Employment density	2
Percentage of Zero-Car Households (house hold with no access to a personal vehicle)	2
Intermodal Connectivity (Port/Rail connectors)	1
Projected Truck Traffic or Freight Corridor	1
Equity areas (Environmental Justice/Disadvantaged Populations, as identified by the metropolitan planning organizations)	1

The 2017 Nation Oceanic and Atmospheric Administration (NOAA) high sea level rise projection for 2045 is 2.18 feet increase, with 8.46 feet projected for 2100.



LEGEND

Countries

- Outside Study Area
- Hillsborough
- Pinellas
- Water Bodies

Transportation Network Criticality

- Low
- Moderate
- High

Inundated Land

-

Representative Projects

- 1 Big Bend Rd from US 41 to I-75
- 2 Gandy Blvd from 4th St to S Dale Mabry Hwy
- 3 Gulf Blvd Bath Club Cir to I25 Ave & Tom Stuart Cswy Bridge
- 4 Roosevelt Blvd/SR 686 from Ulmerton Rd/SR 688 to Gandy Blvd
- 5 SR 54 from US 19 to Suncoast Pkwy
- 6 US 19 from SR 54 to SR 52

The surface transportation system and these six projects will be evaluated regarding mobility and economic impacts for the region, as well as to identify appropriate mitigation strategies and costs for consideration as part of the Long Range Transportation Plan process.