

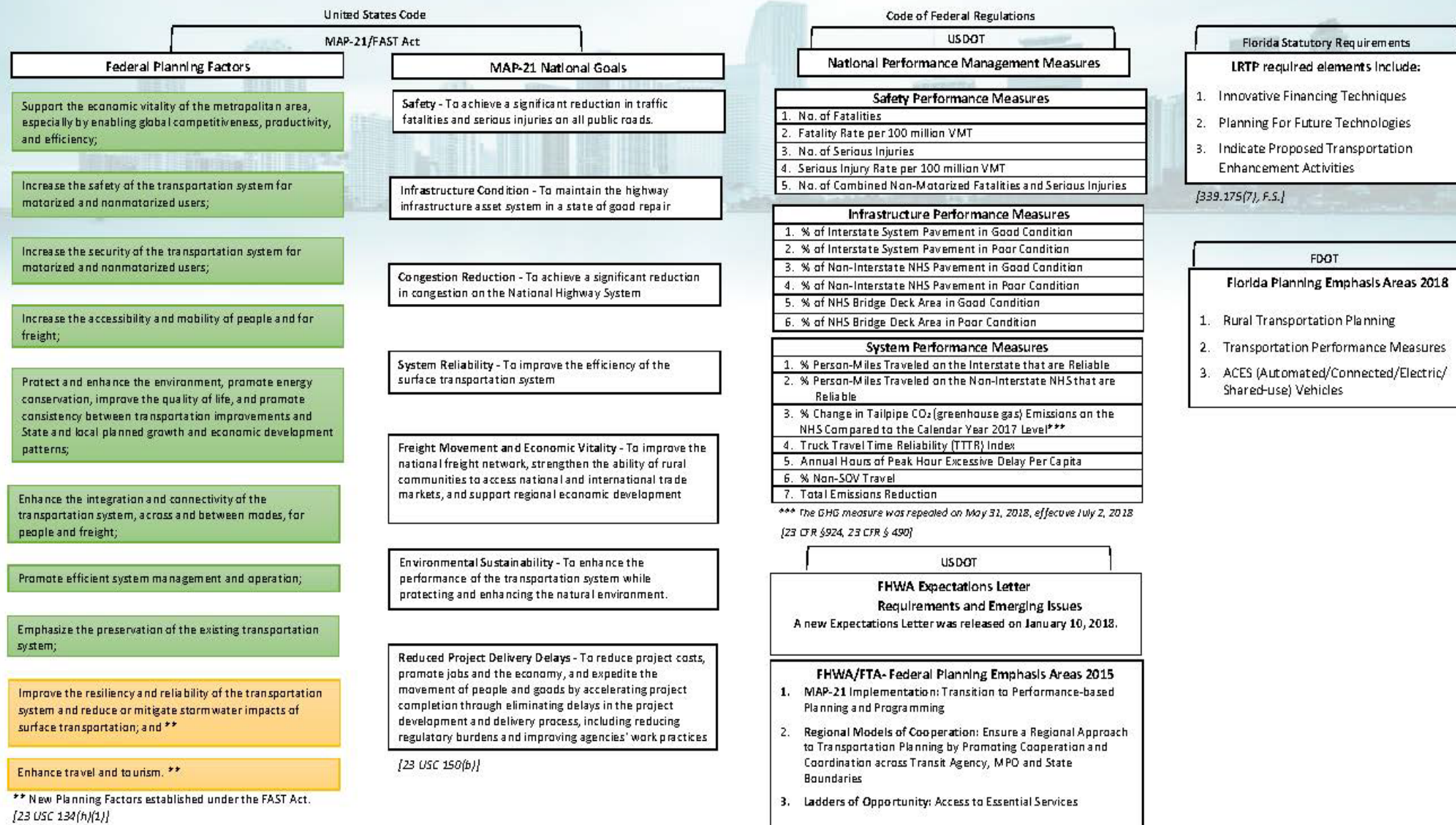
# Resilience, Environment and Sustainability Update

Lisa Colmenares, AICP  
Program Development Manager  
October 12, 2018

# AGENDA

- MAP 21 and FAST Act Planning Factors
- Resiliency, Environment, Sustainability, Livability and Climate Change Considerations in the 2045 LRTP
- Strategies to Reduce Vulnerability of Transportation Infrastructure to Natural Disasters
- Resiliency Efforts
- Next Steps

## Federal and State Planning Requirements and Expectations



# 2045 LRTP Goals

## GOAL 1

### Improve System And Travel

- Reduce Congestion
- Enhance mobility for people and freight
- Promote system reliability and fill transit services gaps

## GOAL 2

### Increase Safety

- Reduce Crashes
- Improve Facilities' safety
- Provide safe and easy pedestrian and non-motorized travel

## GOAL 3

### Increase Security

- Enhance evacuation corridors
- Ensure emergency evacuation options
- Ensure security ports, airports, and multi-modal centers

## GOAL 4

### Support economic vitality

- Increase employment site access
- Enhance efficient movement of freight and goods
- Support economic development

## GOAL 5

### Protect/Preserve Environment and Quality of Life

- Support livable communities
- Minimize to established areas
- Minimize impact on air and water quality

## GOAL 6

### Enhance Connectivity

- Improve connectivity to intermodal facilities
- Maintain consistency with Local Government
- Improve movement of goods via intermodal access & connectivity

## GOAL 7

### Optimize Sound investment Strategies

- Maximize funding sources
- Maintain consistency with Local Government
- Strong linkage with Southeast Florida

## GOAL 8

### Preserve Existing System

- Maintain existing infrastructure
- Improve existing system with new tech
- Reserve corridors for future facilities and services

## Considerations in the 2045 LRTP

- Resiliency
- Environment
- Sustainability
- Livability
- Climate Change





## Resiliency Efforts

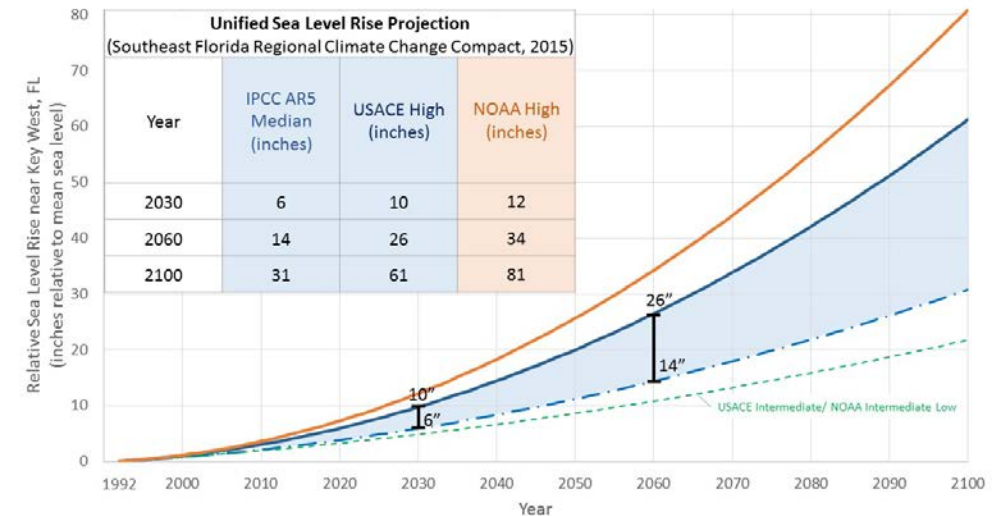
- Resiliency Plan, Comprehensive Plan and Other Plans
- Adaptation Action Areas
- Water and Wastewater Utility
- Stormwater & Flood Control
- Collaborative & Regional Efforts
- Energy Resiliency



Photo: City of Miami and Miami Beach: 2018 Champion City Mayor Bloomberg's Challenge

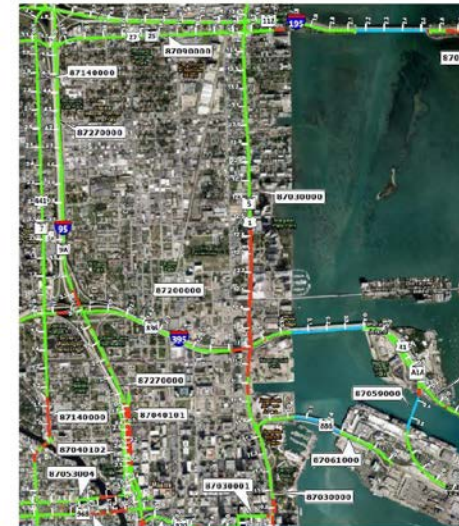
## Existing Studies and Plans

- GIS Screening of State Highways Impacted by the Design High Water and Based Clearance Requirements in Miami-Dade County, FL, Florida Department of Transportation, District 6
- Southeast Florida Regional Climate Change Compact: Climate Action Plan & Unified Sea Level Rise Projections
- Greater Miami and the Beaches Resiliency Strategy Report
- Miami-Dade County GreenPrint
- Local Plans and Action Areas



## GIS Screening of State Highways Impacted by the Design High Water and Based Clearance Requirements in Miami-Dade County, FL, FDOT, District 6

- FDOT evaluated the impacts of increasing the Design High Water (DHW) elevation due to SLR on the roadway base clearance.
- The study area limited to State Roads under the jurisdiction of District Six located east of the Salinity Control Line (SCL) in Miami-Dade County.
- Of the 144.6 miles of state roadways in Miami-Dade County that were east of the Salinity Control Line, 24.8 miles (17.1%) were identified by the GIS screening analysis for being at-risk of failing the Base Clearance criteria at a DHW elevation of 1.0 foot NAVD.
- Surveyed spot elevations at the edge of pavement along all state roads should be collected during Phase II to provide the higher accuracy elevation data needed to refine the analysis.



GIS Screening of State Highways Impacted by the Design High Water and Base Clearance Requirements in Miami-Dade County, FL

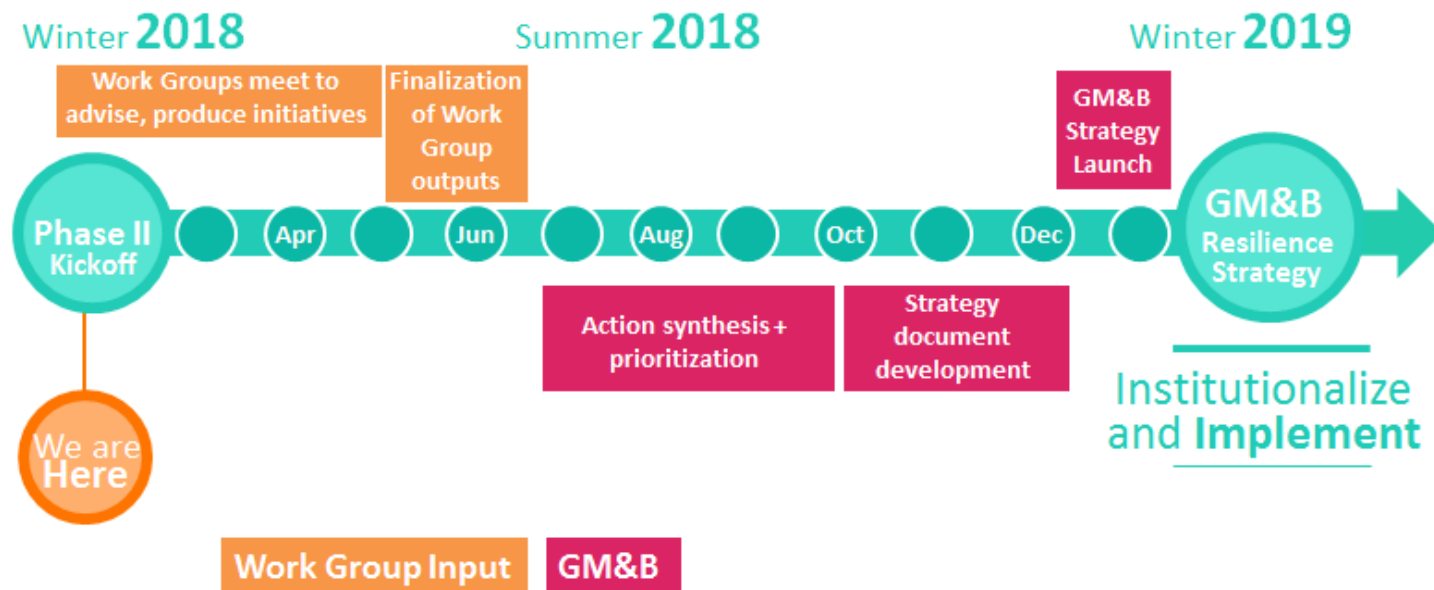
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TWO #19, FPID No. 250759-3

Florida Department of Transportation, District Six  
November 2, 2016



## Greater Miami and the Beaches Resiliency Strategy Report



## Greater Miami and the Beaches Resiliency Strategy Report: Discovery Areas



## 2045 LRTP Steering Committee Next Steps

- Provide a copy of your plans and studies
- Follow-up teleconferences and/or meetings with key leading agencies
- Presentation to update Steering Committee on Goals and Strategies

# Questions?

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