Countywide Vulnerability Assessment

IMPACT OF SEA LEVEL RISE & STORM SURGE ON CRITICAL INFRASTRUCTURE





Countywide Vulnerability Assessment

- \$300k RESTORE Act grant to assess the vulnerability of our critical infrastructure to sea level rise & storm surge
- Project Partners: Tampa Bay Regional Planning Council, Forward Pinellas, and Pinellas Municipalities
- Four phases of project; up to a 3-year study





SE FL Regional Climate Change Compact: Asset Analysis

Physical features:

- Ports and airports
- Hospitals
- Schools
- Water & wastewater treatment plants
- Power plants
- Marine facilities
- Landfills
- Railroads
- Evacuation routes
- Emergency shelters

Types of outputs generated for each sea level rise scenario:

- Total acres impacted
- Taxable value of property
- Impact on assets
- Miles of road by FDOT category
- Critical habitat by category (mangroves, wetlands, etc.)
- FLU categories by acre





Hillsborough County MPO Vulnerability Assessment and Adaptation Pilot Project

Project Goals:

- Identify transportation assets vulnerable to sea level rise and storm surge
- Develop adaptation strategies for a subset of the vulnerable assets
- Econometric modeling using REMI to assess cost/benefit of the strategies
- Incorporate results into LRTP





Credit: Planning.org

Project Kickoff:

 Confirm project goals and objectives with partners – begin stakeholder outreach process

Pinellas County

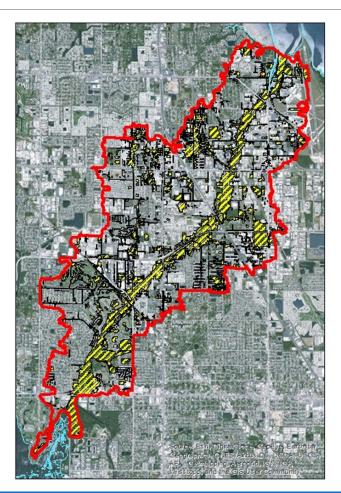
 Identify/establish working groups and planning teams



Obtain & Format Data:

- Sea level rise and storm surge
- Transportation assets, stormwater infrastructure and utilities (water, wastewater, natural gas & electricity)
- Update GIS Decision Support Tool





Data Analysis:

 Utilize GIS decision support tool to identify vulnerable critical infrastructure

Pinellas

Count

- Conduct scenario planning/vulnerability assessments on identified critical assets
- Conduct economic analyses



Strategy Development & Final Report:

- Development of adaptation strategies
- Consider relationships & opportunities presented via interplay between the natural and built environment
- Draft final report, including summary of findings and policy recommendations



Questions?

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