RIDOT Resilience Improvement Plan

Executive Climate Change Coordinating Council (EC4)















RESILIENCE DEFINITION

The ability of the Rhode Island transportation system to anticipate, prepare for, and adapt to changing conditions; and withstand, respond to, and recover rapidly from any disruptions.





ALIGNS WITH RIDOT VISION:

Designs, constructs, and maintains the state's surface transportation system Create a multimodal transportation network that connects people, places, and goods in a safe and resilient manner by providing effective and affordable transportation choices that are supportive of healthy communities, provide access to jobs and services, and promote a sustainable and competitive Rhode Island economy



LRTP Goals						
	Maintain Transportation Infrastructure	Connect People & Places	Promote Environmental Sustainability	Strengthen Communities	Support Economic Growth	
Resilience & RIP	By protecting asset integrity and minimize damage due to extreme weather or climate events	By providing efficient and effective travel, reducing network disruptions or closures, and enhancing emergency management	By investing in carbon reduction strategies, green infrastructure, and nature- based solutions	By developing resilience strategies responding to needs of vulnerable communities	through safe and reliable transportation connectivity and choices and expanding workforce in resilience and sustainability industry	











Hazards

- Inland Flooding
- Storm Surge
- Sea Level Rise



Consult Hazard Mitigation Plan

Horizons:

- 2035
- 2050
- 2100







important to the unimpeded operation of the transportation system in Rhode Island The degree to which a system is susceptible to, or unable to cope with adverse effects of climate change or extreme weather events



Criticality Score = Usage and Operational Score + Socioeconomic Score + Health and Safety Score



Socioeconomic Importance

Equity Areas (4)

Population Density (3)

Employment Density (3)

Health and Safety Importance

Access to Dam (1)	
Access to Fire or Police Stations (1)	
Access to Hospitals (1)	
Access to Schools (1)	
Access to Emergency Shelters (1)	
Access to Power plants (1)	
Access to Transit Centers (1)	
Access to Airport (1)	
Access to Seaports (1)	
Access to Maintenance Facilities(1)	
Access to Military Installations(1)	

Criticality Assessment - Preliminary Results

- Tested three weighting options
- Selected as it best highlights the assets that are most important to the operation of RIDOT transportation system, including providing accessibility and mobility to underserve communities
- Refined based on inputs from stakeholder workshop and public meetings









Preliminary Results

Exposure – Sea Level Rise Inundation



Sensitivity – Pavement Condition



Adaptive Capacity - Network Density







FHWA Division Coordination



Stakeholder Workshops







Overall Progress and Next Steps

- » Complete vulnerability and risk analysis
- » Develop resilience strategies
- » Create framework for integration
 - Project Development
 - Coordination with other
 planning activities
 - Current Practices and Functions





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