

# TRANSPORTATION RESILIENCE PLANNING: SUBCOMMITTEE

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## Subcommittee Formation + Program Update

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TPB Technical Committee Meeting  
October 4, 2024



# Today's Objectives

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- Overview of mission + goals for new Regional Transportation Resilience Subcommittee
- Update on program activities



# Subcommittee Mission

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The mission of the Regional Transportation Resilience Subcommittee is a) to provide a forum and framework for the coordination of transportation resilience planning throughout the National Capital Region, and b) to incorporate resilience into the National Capital Region Transportation Plan (NCRTP) and Transportation Improvement Program (TIP). The subcommittee aims to foster robust and adaptive transportation systems in the National Capital Region that have the ability to anticipate, prepare for, or adapt to conditions or withstand, respond to, or recover rapidly from disruptions, ensuring the continuous movement of people, goods, and services. Through collaboration, coordination, and strategic planning, members aim to enhance the resilience of transportation systems and infrastructure, mitigate potential current and future risks, and build community resilience with a focus on equity to better adapt to impacts from natural hazards, technological failures, and other unforeseen challenges.



# Subcommittee Objectives

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1. Create a space for transportation and resilience planners in the NCR to share information on local resilience projects that are currently underway or are being planned
2. Create a space for transportation and resilience planners in the NCR to collaborate on issues of regional significance
3. Guide regional transportation resilience analysis and study priorities – help TPB choose which projects to pursue and serve as advisory body for those studies
4. Expand regional capacity by facilitating presentations, workshops, and other means of sharing best practices in the transportation resilience field



# Miscellaneous Info

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- Meetings to be held once per quarter
- Membership from:
  - TPB Member Jurisdictions
  - TPB Member Agencies
  - Regional Transit Agencies/Authorities
  - Regional Planning Organizations
- First meeting November 14, 2-4pm



# TRANSPORTATION RESILIENCE PLANNING PROGRAM UPDATE

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# Future TRIP Enhancements

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Potential future improvements to the TRIP include:

- **Additional flooding impact analysis**  
Consider urban flooding, pluvial flooding, floodplain change due to climate change, combined effects of sea level rise and coastal and riverine flooding; ground-truth flooding results.
- **Increased consideration of equity and potential impacts to critical services**  
Conduct user-based analysis, critical service access analysis.
- **Economic impacts and system-level analysis**  
Identify monetary risk associated with hazard; consider how alternative transportation options or a lack thereof impact vulnerability.
- **Mapping regional closures due to natural hazards**  
Analyze Regional Integrated Transportation Information System data alongside hazard data.

# Regional Inland Flooding Analysis

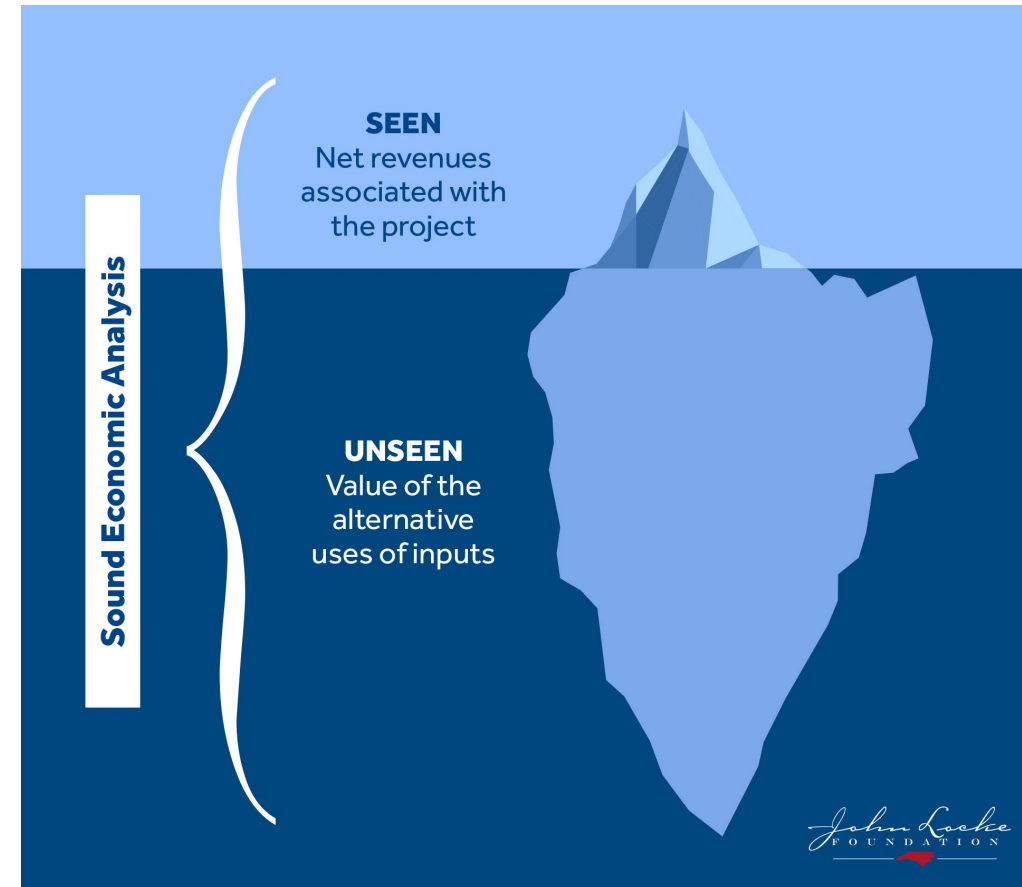
- TRIP Working Group identified the need for enhanced understanding of potential flooding impacts to the region's transportation system
  - FEMA floodplain data is only historical
  - Three potential data sources
  - Updating TRIP risk scores for inland flooding
  - Target completion date end of June 2025





# Economic Impact Analysis + Case Studies

- New effort to conduct economic analysis to demonstrate the cost of inaction and provide support for the benefits of proactive resilience investment.
  - Five transportation assets analyzed for no/medium/high-cost adaptation interventions
  - Generalized best practices/flow chart framework for benefit-cost assessment
  - Completion date targeted for end of June 2025



# Other Program Updates

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- PROTECT Discretionary Grant NOFO – now listed for October
- GIS Work
  - RITIS road closure mapping project
  - Critical Infrastructure layer
- Continued engagement with FHWA on emerging transportation resilience planning issues/opportunities



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