

PROJECT OVERVIEW REPORT

1. UTC Identifying Number
69A3551847102
2. Center Identifying Number
CAIT-UTC-REG82
3. Project Title
Risk and Resiliency Analysis of Infrastructure by Improving RAMCAP Framework
4. Principal Investigator & Contact Information
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7. Project Description
The primary goal of this proposal is to develop a comprehensive risk and resilience assessment framework for critical transportation and coastal infrastructure, using the RAMCAP framework as a baseline. The framework will identify potential risks to the infrastructure and analyze its resilience against natural and artificial hazards.
8. Implementation of Research Outcomes (or why not implemented)
The intended outcome of the project is to provide valuable insights into critical transportation and coastal infrastructure risks and resilience and develop a comprehensive framework for assessing these factors. The proposed framework will help decision-makers prioritize investments and interventions to improve the state of good repair and extend the life of infrastructure.
9. Impacts/Benefits of Implementation (actual, not anticipated)
To Be Determined



Center for Advanced
Infrastructure and
Transportation

10. Dates and Budget

Start date: 5/1/2023

End date: 12/31/2023

UTC (CAIT) Dollars: \$50,000

Cost Sharing: \$50,900

Total Dollars: \$100,900

11. Keywords

Reliability Analysis, Risk Assessment, Resilience Analysis, Infrastructure Safety,
Vulnerability Analysis

12. Web Links (Reports and Project Website)

<https://cait.rutgers.edu/research/risk-and-resiliency-analysis-of-infrastructure-by-improving-ramcap-framework/>