

PROJECT OVERVIEW REPORT

1. UTC Identifying Number
69A3551847102
2. Center Identifying Number
CAIT-UTC-REG38
3. Project Title
Risk and Resilience Analysis Tool for Infrastructure Asset Management
4. Principal Investigator & Contact Information
Yun Bai
Assistant Research Professor
Rutgers, the State University
Center for Advanced Infrastructure and Transportation
100 Brett Road
Piscataway, NJ 08854
5. Rutgers/CAIT Project Manager
Patrick Szary, Ph.D.
6. Customer Principal
Richard Voith, Principal
Econsult Solutions Inc.
1435 Walnut Street, 4th Floor
Philadelphia, PA 19102
7. Project Description
There is a pressing need from agencies for a quantitative, risk- and resilience-based framework that can address high level IAM questions. The primary goal of this proposal is to evaluate and demonstrate the application of prevailing risk and resilience assessment approaches and integrate them in a holistic transportation asset management (TAM) framework.
8. Implementation of Research Outcomes (or why not implemented)
The intended outcome is an analytical platform with input-output dashboard that can be used to run the analysis, produce results and generate reports. Meetings with agencies such as NJ Transit, Port Authority, NJDOT will be held to discuss research outcomes and potential implementation roadmap.
9. Impacts/Benefits of Implementation (actual, not anticipated)
To Be Determined

10. Dates and Budget

Start date: 11/1/2020
End date: 12/31/2021
UTC (CAIT) Dollars: \$80,000
Cost Sharing: \$0
Total Dollars: \$80,000

11. Keywords

Infrastructure asset management, risk, resilience, life cycle cost analysis, capital planning

12. Web Links (Reports and Project Website)

<https://cait.rutgers.edu/research/risk-and-resilience-analysis-tool-for-infrastructure-asset-management/>