

PROJECT OVERVIEW REPORT

1. UTC Identifying Number
69A3551847102
2. Center Identifying Number
CAIT-UTC-REG 10
3. Project Title
Policies, Planning, and Pilot Testing on Infrastructure Readiness for Electrical, Connected, Automated, and Ridesharing Vehicles
4. Principal Investigator & Contact Information
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7. Project Description
The primary goal of this proposal is to
8. Implementation of Research Outcomes (or why not implemented)
The intended outcome of the project is to conduct (i) A comprehensive review of the existing ITS system architecture and implementation in New Jersey; (ii) Document the best practices in ITS system architecture practices in the country, which support transition to connected and electric vehicles; (iii) Identify gaps in New Jersey compared to these best practices; (iv) Develop a preliminary system architecture for New Jersey that supports connected and electric vehicle technologies; and (v) Identify critical infrastructure barriers and challenges in New Jersey to make the transition.

A preliminary plan will be developed for a test bed. The research outcome will lead to preliminary design plan of a test bed, a simulation model demonstrating scale up, and a preliminary system architecture.

9. Impacts/Benefits of Implementation (actual, not anticipated)
To Be Determined

10. Dates and Budget

Start date: 9/1/2018

End date: 9/30/2020

UTC (CAIT) Dollars: \$249,740

Cost Sharing: \$89,740

Total Dollars: \$339,480

11. Keywords

Infrastructure Readiness; Connected and Autonomous Vehicles, Electric
Vehicles Charging

12. Web Links (Reports and Project Website)

<https://cait.rutgers.edu/research/policies-planning-and-pilot-testing-on-infrastructure-readiness-for-electrical-connected-automated-and-ridesharing-vehicles/>