

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
Dr. Mohsen A. Jafari
Professor
96 Frelinghuysen Rd
Piscataway, NJ 08854
5. Rutgers/CAIT Project Manager
Patrick Szary, Ph.D.
6. Customer Principal
Susan Catlett, Project Manager
Division of Mobility Systems and Engineering
NJ Department of Transportation
P.O. Box 600
Trenton, NJ 08625-0600
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: 9/30/2019

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/>