Project Title: C-05-04 : Route Guidance Exploratory Research
PIN: R020.69.881
Responsible Unit: Statewide Transportation Policy & Strategy Division
Project Manager: Higle, Jay

Project Goal:
Design and study an analytic framework to alleviate congestion and manage traffic through anticipatory route guidance (ARG) systems. Incorporate traffic stochasticity; examine the efficient solution to the problem; and validate results to crate software useful to

Actions Proposed:
- Analyze origin-destination (O-D) flows which may change paths at intermediate nodes.
- Conduct rigorous analysis of existence of solutions under weak assumptions.
- Develop practical solution algorithmic
- Analyze toll setting policies in a dynamic traffic assignment.
- Test the proposed framework and establish its validity.
- Establish connections to supply chain management and dynamic pricing.

Anticipated Work Products and Accomplishments:
The project will focus on predictive driver information systems that provide messages to facilitate drivers path trip decisions before and during a trip. The message may:
- Inform drivers about different traffic conditions and different available paths.
- Ensure reactions to guidance do not validate forecasts, based on traffic condition forecasts.
- Establish a mini-symposium.

Proposed Budget: $26,250