IntelliDrive^{SM} Pooled Fund Study

Program to Support the Development and Deployment of Infrastructure IntelliDrive^{SM} Applications

University of Virginia Center for Transportation Studies

Progress Report
February 2010

Project Activities/Progress

Project Management

1. *Selection of the Contractors for the Year 1 Applications*

    - Critical questions on the work scope and the budget proposed in the proposals were sent out to the agencies for negotiations.
    - Agencies provided written responses by February 5.
    - Finally, based on the evaluation scores and the negotiation results, the University of California PATH Program was selected for the Signal Phase and Timing (SPAT) Data Application project and Auburn University for the Pavement Maintenance Support Application (PMSA) project.

2. *Initiation of the Contracts*

    - Purchase orders were issued to the selected contractors and the actual contract has initiated.

IntelliDrive^{SM} Traffic Signal Algorithms

1. *Continued Literature Review*

    - For all the four selected focus areas, the project team has carried out a review of existing literature. As can be expected, the existing literature is focused on existing technologies (such as point detectors). A few conceptual papers using probe data were also found and studied

2. *Algorithm coding in VISSIM network*

    - For implementing the first three algorithms, VISSIM has been selected as the microscopic traffic simulation program for development and evaluation. The Component Object Model (COM) interface will be used through the C# programming language. This common platform is selected for all the algorithms to facilitate integration as the project progresses.

- For simulation, the research team is using a calibrated and validated model of a 16-signal corridor in Northern Virginia region. The corridor is comprised of Route 50 near Route 28 in Chantilly, VA. Parts of this corridor will be used for algorithm development and evaluation.

Project Status

The project is on schedule. Kick-off conference calls with the selected contractors will be held in March and a face-to-face meeting with the pooled fund study members will be planned. Further literature review and actual algorithm coding is planned for March.

Invoice Notes

None