

IntelliDriveSM Pooled Fund Study

Program to Support the Development and Deployment of Infrastructure IntelliDriveSM Applications

University of Virginia Center for Transportation Studies

Progress Report
April 2010

Project Activities/Progress

Project Management

1. *Face-to-Face Meeting Preparation*

- The primary focus of the management team this month was preparing the face-to-face meeting scheduled in Houston, Texas on Wednesday, May 5th 1:00-5:00PM CDT. Specific tasks conducted are as following:
 - First, a draft agenda was prepared and then modified through various discussions.
 - Secondly, a preliminary list of applications that can be considered for the Year 2 program was developed. This list was prepared based on 1) US DOT day-1 use cases, 2) applications studied at the proof of concept test in Detroit, Michigan, and 3) five applications endorsed by AASHTO in the IntelliDrive deployment analysis RFP. Discussions on this list will take place at the meeting.
 - Finally, other arrangements for the meeting including a projector/screen/microphone for presentations, a speaker phone for teleconferencing, beverages and so on, were made.

IntelliDriveSM Traffic Signal Algorithms

1. *Continued Literature Review*

- Two algorithms, network optimization and flexible lane markings, continued literature review efforts in April.

2. *Algorithm coding in VISSIM network*

- Two algorithms, saturation and platoon-based, continued coding in C# using VISSIM COM.

3. *Algorithm Visualization*

- In preparation for the May 5th meeting, the project team developed a short animation visualizing a feedback control algorithm demonstrating an IntelliDrive traffic signal control application.

Project Status

The project is on schedule. The face-to-face meeting will be held on May 5th and, according to the results of the meeting, several action items will be derived and communicated with the PFS members. Further literature review and actual algorithm coding continues in May.

Invoice Notes

None