

## IntelliDrive<sup>SM</sup> Pooled Fund Study

### Program to Support the Development and Deployment of Infrastructure IntelliDrive<sup>SM</sup> Applications

University of Virginia Center for Transportation Studies

Progress Report  
December 2010

#### Project Activities/Progress

##### Project Management

1. Year 2 Program
  - a. Requests for proposals for the following two projects were released:
    - i. Aftermarket IntelliDrive<sup>SM</sup> On-Board Equipment on December 9th
    - ii. Certification Program for IntelliDrive<sup>SM</sup> on December 10th
  - b. Call with OmniAir on December 20, 1:00-1:30PM
    - i. OmniAir raised a concern that the work they have been conducting for USDOT is somewhat similar to what the Certification project intends to perform. Therefore, a call was held to understand OmniAir's work and to see if there exists a significant overlap.
    - ii. Attendees: Rick McDonough (NY State), Hyungjun Park (UVA), Michael Warlick (UVA Procurement), Tim McGuckin, Steve Ezar (OmniAir)
    - iii. It was determined that the PFS team will have a call regarding this issue and will determine how to go with the Certification project.
  - c. PFS call on December 21, 1:00-2:00PM
    - i. The purpose of this call was to discuss the issue raised by OmniAir and to make a decision on the Certification project.
    - ii. It turned out that the majority of PFS members were more inclined to keep the RFP as it is and to see what other proposers can come up with. Once the final product from OmniAir becomes available, PFS members will hold another call to see if their work satisfactorily covers the scope of the Certification project and if any modification on the Certification project is needed.
2. IntelliDrive PFS Dynamic Mobility Application (DMA) Program
  - a. Call on December 16, 12:00-1:00PM
    - i. The purpose of this call was to select projects for the PFS DMA Program.
    - ii. The lists of candidate applications discussed were:
      1. Two application ideas based on Year One projects. The signal application was discussed during our AASHTO working group meeting. UVA put together an application idea based on the pavement project as well to through in the idea pool.

2. Results from the Member Rankings from the DMA Workshop Applications
  3. IntelliDrive Safety Applications Guide – provided by CAMP
  4. AASHTO’s Deployment Plan – Task 2
- iii. Finally, two projects were selected as follows:
    1. IntelliDrive-Enabled Traffic Signal Operation System
    2. Traveler Information and Dynamic Routing to Support System Management
- b. The PFS management team prepared and distributed the program description document to the members for comments.
3. Meetings
    - a. Attended a IntelliDrive Dynamic Mobility and Environment Workshop
      - i. Date: November 30th and December 1st
      - ii. Location: George Mason University, Arlington, VA
    - b. Attended a webinar “An Overview of IntelliDrive Applications for the Environment: Real-Time Information Synthesis (AERIS)”
      - i. December 8th, 1:00-2:30PM
    - c. Attended a ITSA IntelliDrive Taskforce Web Meeting
      - i. December 15th, 2:00-3:00PM

### IntelliDrive<sup>SM</sup> Traffic Signal Algorithms

1. *Task 4 Report*
  - The project team completed work on the Task 4 report, which discusses the results from testing the algorithm in the IntelliDrive testbed environment. The report was posted online: [http://cts.virginia.edu/PFS\\_SIG05\\_Task4.pdf](http://cts.virginia.edu/PFS_SIG05_Task4.pdf)
2. *Task 1 and 5 Reports*
  - The project team is finalizing and internally reviewing the Task 1 and Task 5 reports, which discuss IntelliDrive data sources and deployment analysis, respectively. The final report will be posted online in January 2011.
3. *Transportation Research Board Annual Meeting*
  - The project team prepared for the TRB Annual meeting held January 23-27 in Washington DC. The project team is presenting results from this project at three sessions:
    - Event 104, Doctoral Student Research in Transportation Operations and Traffic Control, “Predictive Traffic Signal Control Algorithm with IntelliDrive.” (January 23, 9AM-12PM).
    - Event 390, Intelligent Transportation Systems Development and Applications, “Application of IntelliDrive to Address Oversaturated Conditions on Arterials.” (January 24, 7:30PM-9:30PM).
    - Event 393, Results from Ongoing IntelliDrive Research, “IntelliDrive Traffic Signal Control Algorithms.” (January 24, 7:30PM-9:30PM).

**Project Status**

The project is on schedule.

**Invoice Notes**

None