

**TRANSPORTATION POOLED FUND PROGRAM
Quarterly Report**

PROJECT TITLE: Program to Support the Development and Deployment of Infrastructure IntelliDrive Applications

OBJECTIVES: To provide a means to conduct the work necessary for infrastructure providers to play a leading role in IntelliDrive

PERIOD COVERED: July – September 2010

PARTICIPATING AGENCIES: California DOT, FHWA, Florida DOT, Maricopa County, Michigan DOT, New York DOT, Texas DOT, Virginia DOT and Washington DOT

PROJECT MANAGER:

SP&R PROJECT NO:

PROJECT IS:

LEAD AGENCY: Virginia DOT

Planning

PRINCIPAL INVESTIGATOR:

Research & Development

ANNUAL BUDGET: \$350,000

PROJECT EXPENDITURES TO DATE \$193,637

WORK COMPLETED:

Project Management

1. A conference call held on July 15th

- At this call, the chairs of the four technical committees presented their recommended activities for the year 2 program of the pooled fund study as follows:
 - Policy/Strategic planning committee (Chair: Greg Larson)
 - Transition Handbook for Executives
 - Outreach Package for Local/Regional Transportation Agencies
 - Retrofit/After-Market IntelliDrive Equipment for Light-Duty Vehicles
 - Software Licensing for IntelliDrive Infrastructure Components
 - Data Access/Privacy Protection for Public Agencies
 - Infrastructure committee (Chair: Richard McDonough)
 - IntelliDrive Financial Transactions and Processing
 - Standards Compliance and Interoperability Certification for IntelliDrive Hardware and Software
 - Development of a Multi-Configurable (cell, satellite) 5.9GHz OBE
 - Signalized Intersection – Traffic Data Collection Application
 - Highway/Arterial Performance Metrics
 - Safety committee (Chair: Alex Power)
 - Intersection safety
 - Lane convergence
 - Traveler information
 - Mobility committee (Chair: Elizabeth Birriel)
 - Pending submission

2. Pooled fund study meeting on September 23rd in California

- Specific items discussed at this meeting were:
 - General updates on the pooled fund study
 - Updates on the current financial status of the PFS
 - New and potential members
 - Year 2 applications selection

- Two projects were selected to comprise the year 2 program:
 - Development of a Multi-Configurable 5.9 GHz OBE and Retrofit / After-Market IntelliDrive Equipment for Light-Duty Vehicles
 - Standards Compliance and Interoperability Certification for IntelliDrive Hardware and Software
- Draft scopes of the selected projects will be prepared next quarter
- MOU between PFS and USDOT for Dynamic Mobility Applications
 - An initial list of potential applications that will be supported by DMA fund will be prepared in the next quarter

IntelliDriveSM Traffic Signal Algorithms

1. Task2 and Task3 reports delivered

UVA CTS has submitted a report for Task2: Development of New Traffic Signal Algorithms and Task3: Development of Tools for Arterial Performance Measures. These reports along with the deliverables from other two projects (see below) were reviewed and distributed to the pooled fund study members for comments.

Pavement Maintenance Support Application

1. Second quarter report submitted

The second quarter report describing the recommended methodologies for IRI estimation and preliminary results was submitted by Auburn University.

Signal Phase and Timing Data Application

1. Task2 report delivered

California PATH has submitted a report for Task2: Identification of Use Cases. This report identifies and provides concise descriptions of ten potential SPAT applications.

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

- In the next quarter, scopes of work for the selected year 2 projects will be prepared and finalized. A procurement process for these projects will then initiate.
- A list of potential applications for DMA fund will be prepared and several applications will be selected.
- Work will continue on the IntelliDrive Signal System Application, Pavement Maintenance Support Application, and Signal Phase and Timing Data Application based on the schedule provided in the project plans.

STATUS AND COMPLETION DATE:

Percentage of work completed to date for total project

Project is: 28 %

 on schedule X behind schedule, explain: Procurement time required for Year 1 and Year 2 projects resulted in delay. Sufficient funds remain to complete work – but may require a

no-cost extension.
Expected completion Date: June 30, 2011