



**I-95 CORRIDOR COALITION
YEAR 14 and 15
SCOPE OF WORK FORM**

Project Title: Vehicle Probe Project

Project Code: 14Ba2V/15a2V

Coalition Funding Amount: 1,530,275

Program Track: 2: Traveler Information Services

Program Year: Year 14 and 15

SECTION A – BACKGROUND

The I-95 Corridor Coalition has developed a traffic monitoring project to provide accurate, reliable, and real-time traffic data in order to deliver traveler information to inter-corridor drivers and support various applications currently in need of such data. The I-95 Corridor Coalition's goal is to reduce congestion and delays caused by major incidents, bottlenecks, and roadway construction by providing its member agencies with accurate travel time information for long distance travelers, commercial vehicle and bus operators.. In addition to traveler information services, the data will also enable and enhance engineering, traffic, performance measurement, and planning applications, not only for individual coalition members, for on a corridor wide basis.

To this end the Coalition released an RFP in April 2007 to procure traffic from vehicle probe technologies within the corridor. Proposals were evaluated in 2007 and a contract was awarded to Inrix corporation in December 2007. The Inrix approach combines multiple sources of data using statistical inference technology. The primary source of information is from organizations whose truck and bus fleets are equipped with GPS tracking devices. However, the Inrix architecture can take advantage of any data source including data from fixed sensors, information obtained from the anonymous tracking of cellular telephones and electronic toll tags, and other technologies as they mature and become cost competitive in order to build a picture of travel times and conditions. The contract allows for expansion of the network through additional task orders, and consulting services to streamline the integration of the data into applications.

This is a ground-breaking, multi-state project to provide regional management of traffic and traveler information useful to long-distance travelers.

Objectives:

The objective of this project is to acquire probe-based traffic flow data within the corridor to support members operations, engineering and planning activities, to validate the usefulness of this type of data and to support the ICAT and ISN activities of the Coalition.

SECTION B – TASKS AND DELIVERABLES

Task 1: Complete the RFP to be used for traffic data contractor selection. RFP development has been completed. This task includes additional refinements and modifications that may be required as a result of interactions with UMD contracts personnel, as well as questions and comments received from members.

Task 2: Manage the selection and negotiation with a traffic data contractor

- Participate on the panel for the evaluation of proposals and contractor selection
- Participate in contract negotiations with the selected firm
- Coordinate and support UMD procurement staff in connection with the acquisition including support of presentation before Board of Public Works

Task 3: Manage and support the activities of the selected contractor including ongoing monitoring of provided data and services

- Review and recommend approval of contractor invoices including the overall degree to which data meets the needs of Coalition members

Task 4: Manage the Implementation of the Core System Coverage

With the award of the contract in December 2007, initial core coverage is expected by July 1, 2008. In order to enable delivery of traffic data in this time frame, coordination between the contractor, Coalition, the project team and UMD is required to finalize the coverage area, develop the initial task for core region coverage, and to communicate all information necessary to quickly and efficiently deploy the core system network.

Deliverables, Activities and Milestones:

- (1) Finalized Core System Coverage Maps
- (2) Initial Task Order (NTP) for the delivery of Vehicle Probe based traffic data on the core system
- (3) Periodic meetings with Project Team to coordinate technical and administrative details.
- (4) UMD will meet with contractor personnel to coordinate all technical aspects of data delivery.
- (5) Provide project information in organized and detailed format on a project web site so that the Coalition and member organizations can quickly and efficiently access and benefit from the vehicle probe project.
- (6) Traffic data service available to the Coalition and Member Organizations
- (7) Process contractor invoices and payment

Task 5: Validate Data Accuracy and Timeliness

The RFP explicitly specifies accuracy and timeliness requirements for the data. The validation will commence upon notice from the contractor of data availability (expected on or about July 1, 2008). Initial validation is expected within 3 months. A program to assess and quantify accuracy and timeliness on an on-going basis is needed to process payment to the contractor.

Deliverables, Activities and Milestones:

- (1) Develop plan in cooperation with contractor and project team for the initial and ongoing validation of data accuracy and timeliness.
- (2) Identify independent data sources for use in validation process.

- (3) Perform initial validation within 3 months of data flow.
- (4) Manage ongoing validation of vehicle probe data.

Task 6: Application and Extension of Vehicle Probe Project

This task involves all necessary coordination needed for the Coalition and its members to efficiently integrate vehicle probe data into applications, and to extend the contract for additional coverage.

Deliverables, Activities and Milestones:

- (1) Facilitate communication of technical and administrative details needed for the Coalition and member organizations to prepare for, and access vehicle probe data quickly and efficiently.
- (2) Meet with member organizations to promote the use of the data.
- (3) Develop any necessary MOU's or other contractual documented needed to access data.
- (4) Coordinate extension of the contract to extend coverage by member organizations.

SECTION C – BUDGET

General Budget Information (same as idea form information):

\$1,530,275 Total project costs.

\$1,530,275 In Coalition funds.

Please provide information below regarding other funding sources available/required including: agency, private, or other federal funds.

N/A

No other funding sources will be available or required. Matching funds for this project will be provided during subsequent funding years by member-funded task orders issued on their behalf to the vendor, for supplemental services such as expansion of coverage, extension of services beyond three years, system integration, etc. Feasibility of this approach has been established through responses received to a questionnaire survey of members conducted prior to releasing the RFP. The match will increase the total project budget, but will have no impact on Year 15 funding.

Detailed Budget Information:

Please submit a detailed budget breakdown for this project. Include cost per task, allocations by firm by task, labor hours, labor dollars and directs.

SECTION D - SCHEDULE

Provide a schedule by task. Include an anticipated NTP date, key milestones and completion date.

Activity	Start Date	End Date
Notice to Proceed	May 1, 2007	May 1, 2007
Task 1 – RFP	May 1, 2007	May 24, 2007
Task 2 – Manage Selection	May 1, 2007	Jan. 15, 2008
Pre-Proposal Conference	May 1, 2007	May 17, 2007
Proposals Due		June 22, 2007
Evaluation	June 22, 2007	Sept. 30, 2007
Negotiation	Sept. 30, 2007	Oct. 31, 2007
Contract Approvals and Award	Oct. 31, 2007	Jan. 15, 2008
Task 3 – Manage Contract	Jan. 15, 2008	May 1, 2008
Task 4 – Implement Core System Coverage	Jan 1, 2008	July 1, 2008
Finalize Core System Coverage Maps	Feb 1, 2008	Mar 1, 2008
Develop Initial Task Order	Jan 14, 2008	Mar 1, 2008
Periodic Project Team Meetings	Jan 1, 2008	Oct 31, 2008
Coordinate technical details with Contractor	Jan 1, 2008	July 1, 2008
Develop and Maintain Project Web Site	Feb 1, 2008	Oct 31, 2008
Enable Traffic Data Service to Coalition	Feb 1, 2008	July 1, 2008
Process contractor invoice and payments	Feb 1, 2008	Dec 31, 2008
Task 5 – Validate Traffic Data	Feb 1, 2008	Dec 31, 2008
Develop Data Validation Plan	Feb 1, 2008	May 1, 2008
Identify Data Independent Data Sources	Feb 1, 2008	July 1, 2008
Perform Initial Validation of Service	July 1, 2008	Oct 1, 2008
Manage Ongoing Validation of Data	Oct 1, 2008	Dec 31, 2008
Task 6 – Application and Extension of Probe Data	Feb 1, 2008	Dec 31, 2008
Communicate Technical and Administrative Data to Coalition	Feb 1, 2008	Oct 1, 2008
Meet with Coalition Members to Promote Data Use	Jan 1, 2008	June 1, 2008
Develop any Necessary MOU's	Jan 1, 2008	July 1, 2008
Coordinate Expansion of Coverage by Coalition	Feb 1, 2008	Dec 31, 2008
Completion Date		Dec 31, 2008

SECTION E – CONTACT INFORMATION

Sponsoring or Managing Agency Project Manager:

Stanley E. Young Title: Research Engineer
University of Maryland, Center for Advanced Transportation Technology
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Project Scope of Work Approval

The Project Management Team for all projects consists of a Project Coordinator/Manager, Coalition Staff, Program Track Lead(s), and consultant(s). Projects are performed either through the competitively procured consultant contract or through Coalition Member Agencies. Scopes are developed in the following manner:

Projects performed by Coalition Consultants: The assigned Coalition Consultant under the supervision of Coalition Staff will prepare the scope of work for the project. Coalition Staff will ensure coordination with both the Project Coordinator/Manager and Program Track Lead(s). The levels of scope approval include: the Project Coordinator/Manager, Consultant Staff in consultation with Program Track Lead(s), and Consultant Team Program Manager.

Projects performed through Member Agencies: The Project Coordinator/Manager will prepare the scope in consultation with the Member Agency and Coalition Staff. Coalition Staff will coordinate with Program Track Lead(s). The levels of scope approval include: the Project Coordinator/Manager and Coalition Staff in consultation with Program Track Lead(s).

The Coalition Staff approval is the final step in the approval process for all projects and signifies that all required Project Staff have approved of the scope of work.

The Project Manager/Coordinator, Coalition Staff, and Consultant Program Track Lead will retain copies of the executed version of this form as part of the official project records.

Project Manager Submittal

I have prepared the attached scope of work that is hereby submitted for approval of the Consulting Team Program Track Lead (consulting team projects)/Member Agency Point of Contact (member agency sponsored projects) and Coalition Staff Contact.

Signature _____

Date _____

Consulting Team Program Track Lead Approval (For Consulting Team projects only)

I have reviewed and approved the attached scope of work and hereby submit it for the approval of the Consulting Team Program Manager.

Signature _____

Date _____

Consulting Team Program Manager Approval (For Consulting Team projects only)

I have reviewed and approved the attached scope of work and hereby submit it for the approval of the Coalition Staff Contact.

Signature _____

Date

Sponsoring Agency Point of Contact Approval (For Member Agency hosted projects only)

I have reviewed and approved the attached scope of work and hereby submit it for the approval of the Coalition Staff Contact.

Signature _____

Date _____

Coalition Staff Contact Final Approval

I have reviewed and approved the attached scope of work.

Signature _____

Date _____

DRAFT