



Vehicle Probe Project Committee Monthly Status Webcast December 3, 2008 Minutes

Participants – see attached

Agenda

	<i>Topic</i>	<i>Speaker</i>
1	Introductions and Welcome	Bill Stoeckert
2	Contractual Issues <ul style="list-style-type: none">• Data Use Agreement Status• Expansion Status	Kathy Frankle
3	ITSA Annual Meeting Presentations & General Comments	Bill Stoeckert
4	SAFETRIP 21 Projects	Bill Stoeckert
5	TMC Code Status	USDOT
6	Data Validation	Stan Young
7	Agency Updates <ul style="list-style-type: none">• Expansion Plans	All
8	Review of Action Items from this call	Karen Jehanian
9	Next Meeting	Karen Jehanian

1. Welcome and Introductions

Bill Stoeckert opened the webcast at 10:00 a.m. by welcoming everyone and thanking those participating. The following is a summary of the discussion. These meeting minutes and all Vehicle Probe (VP) Project information is available at: <http://www.i95coalition.net/i95/Projects/ProjectDatabase/tabid/120/agentType/View/PropertyID/107/Default.aspx> (Most documents are on the 'Highlights' page).

2. Contractual Issues

Kathy Frankle reviewed the status of Data Use Agreements (DUAs) for the project team and Coalition members. She noted that a new member (Potomac & Rappahannock Transportation Commission) has joined to the Coalition and has signed a DUA. She also stated that Washington, DC is close to signing a DUA. Kathy reviewed the status of data expansion for member states and noted that North Carolina has completed the contract for the expansion. Rick Schuman mentioned that South Carolina has purchased vehicle probe data from INRIX for the Colombia area. INRIX will make these data available to the Coalition members. Once SCDOT signs the DUA they will have access to all Coalition vehicle probe data. Kathy Frankle will answer the question as to whether the SC participation can be counted toward the federal match.

3. ITSA Annual Meeting Presentations & General Comments

Bill Stoeckert discussed the Vehicle Probe project participation in the ITSA Annual Meeting. He stated that INRIX was at the Coalition booth discussing the project and



demonstrating the VP project monitoring site. He noted that it was a very positive experience and that there was a lot of interest. In fact, the new Coalition member (Potomac & Rappahannock Transportation Commission) and their participation in the VP project is a direct result of that effort.

4. SafeTrip 21 Projects

Bill Stoeckert explained that the Coalition recently signed an agreement with the USDOT (through the Volpe National Transportation Center) to participate in the SafeTrip 21 initiative. Bill listed the four projects that will use the VP data including:

1. Long distance trip planning using real-time travel time data (public website).
2. Displaying travel times in public areas (VA Welcome center and Tysons Corner shopping center)
3. Expanding the BWI ground transportation project to provide travel time data to the public.
4. More efficient and safer work zones (iCone)

5. TMC Code Status

Ben McKeever explained that their project with Noblis to explore the TMC code mapping issue is underway. Specifically, the purpose of the project is to address concerns over the transfer of data represented on the TMC codes to DOT format (maps). Ben McKeever gave an update of the project and noted that there is time and funding still available. It was decided to have an off-line discussion regarding additional tasks that could be completed to answer some additional questions.

6. Data Validation

Stan Young explained that the initial data validation effort has been conducted and the purpose of this presentation is to explain the effort specifically the information provided in the draft executive summary (that had been emailed to all participants prior to this webcast).

Stan stated that validation effort began in July 2008. He stated that Dr. Ali Haghani ran the data validation effort and thanked him and his students for their efforts. Stan explained that the Bluetooth method was selected to validate the GPS probe data after comparing it to floating car method on selected runs. Stan reviewed with the group how the Bluetooth method works and explained that it is considered to provide the “ground truth data” for this effort. He reviewed a sample travel time plot with the group and defined several of the key statistical terms used in the analysis including the standard error of the mean (SEM) band. He described the SEM band to be the uncertainty in the ground truth data similar to the 95th confidence interval. He also explained that if the variance in the data is small then the SEM band is narrow and conversely, if the variance in the data is large then the SEM band is wide. Next, Stan explained the specs for the contract as the average absolute speed error (ASSE), which compares the INRIX data to ground truth (this value must be less than 10mph), and the speed error bias (SEB), which is used to identify consistent differences between INRIX data and ground truth (this value must be less than 5mph). The SEB identifies whether the data is systemically over or under the ground truth data. Stan further explained that these specs are applied to freeways with flows exceeding 500 vehicles per hour per direction and that the accuracy for the travel time/speed data is assessed in the following four speed ranges: 0 - 30 MPH, 30-45 MPH, 45-60 MPH, and greater than 60 MPH.



Stan reviewed some of the general evaluation results:

- INRIX travel time and speed data generally satisfies the accuracy specifications of the contract
- 76 Observed congestion events - Traffic slows to < 40 MPH for 15 minutes
- 75 Congestion events captured in the INRIX data feed
- In Northern Virginia, all data quality specifications are satisfied for all speed ranges using both the SEM band and mean.
- The average absolute speed error specification is satisfied in comparison with the SEM band for all states, at all speed ranges with one exception in the 0-30mph speed range.
- The speed error bias specification is satisfied in comparison with the SEM band for all states, at all speed ranges with two exceptions in the 0-30mph speed range.

Stan discussed the amount of data collected in the various states at the different speed ranges. He stated that data for all states is dominated by the free flow condition so it was necessary to break out the various speed ranges. Stan then reviewed the summary tables for each of the states involved in the initial validation process – Northern Virginia, Maryland, Delaware and New Jersey. He explained that data for New Jersey is still considered preliminary, as an independent review of the results has not yet been concluded. Sue Catlett noted a discrepancy in data on Table 1 in the presentation as compared to the executive summary. Karen Jehanian stated that the information will be reviewed and corrected. Stan noted that the final executive summary and full evaluation report is expected to be submitted in early January 2009. Bill Stoeckert thanked Stan and asked that any questions or comments on the validation effort and/or the draft executive summary be directed to Stan.

7. Agency Updates

Each member agency present was requested to give a status update related to their use of the VP data and/or expansion plans.

New Jersey (Jim Hadden) – Currently, they are using the VP data in the operations centers to support their day to day efforts. They are not comfortable with using historical data on the information transmitted to the public (as on their webpage, 511 phone information and VMS boards).

North Carolina (JoAnn Oerter) – Since the last webcast, they have met with INRIX and their IT department. They are using the data for their internal operations and incident management. They have found the VP data and monitoring site to be particularly helpful over the Thanksgiving holiday I-85 was closed due to an accident.

Pennsylvania (Larz Kegerreis/Bob Pento) – They noted that they will have data available through their 511 contract with expanded coverage by June 2009. The Coalition reminded PennDOT that need to execute a DUA to receive data other than PA. They would like to set a meeting with the Coalition staff to further discuss the matter.

Virginia (Scott Cowherd) – They had a preliminary review of the validation results with UMD when setting up the testing parameters for the data validation program in central VA. They would like to set up a meeting to review the results of the central VA validation effort and to discuss the project in general with their executives.

Maryland (Stan Young provided information for MDSHA) – he reported that INRIX data has been integrated into RITIS.



8. Review of Actions Items

- a. TMC Codes – Follow up call with Ben McKeever to clarify the expectations of the USDOT effort to uncover issues related to the TMC Code/Mapping translation.
- b. Review and correct discrepancies in the executive summary Table 1 and slides and re-send the material to members.
- c. Meet with New Jersey per Jim Hadden to review the evaluation results.
- d. Meet with VDOT (Connie Sorrell and others) per Scott Cowherd to review the evaluation results.
- e. Meet with PennDOT per Bob Pento to discuss use of INRIX data and their 511 Contract.
- f. Complete and submit the full evaluation report in early January 2009, preferably prior to the next call on January 7, 2009.

9. Next Meeting

The next meeting is scheduled for Wednesday, January 7, 2009 at 10:00 AM EST.

Any questions in the meantime should be directed to:

- Bill Stoeckert at 774.207.0367 or wstoeckert@yahoo.com
- Stan Young at 301.403.4593 or seyoung@umd.edu
- Rick Schuman at 407.298.4346 or rick@inrix.com
- Jeff Summerson at i95Support@inrix.com for questions or comments regarding the monitoring site
- DUA issues and project expansion issues should be directed to Kathy Frankle at kfrankle@umd.edu

Mr. Stoeckert thanked the Committee members for their time and valuable input.

The conference call was adjourned at 11:45 AM.



**Minutes
Vehicle Probe Project Committee
Webcast/Conference Call
December 3, 2008**

PARTICIPANTS

I-95 Corridor Coalition:
Bill Stoeckert

Vehicle Probe Committee Webcast Attendees:	
Scott Cowherd	Virginia DOT
Nathan Erlbaum/Todd Westhuis	NYSDOT
Sue Catlett/Jim Hadden/Tom Batz	NJDOT
Larz Kegerreis/Bob Pento and others	PennDOT
JoAnn Oerter	NCDOT
Ben McKeever/James Pol/Bob Rupert	FHWA/USDOT
Kathy Frankle/Ali Haghani/Phil Tarnoff/ Stan Young	University of Maryland
Rick Schuman/Craig Chapman/ Chris Scofield/David Huang/Pete Costello/ Jeff Summerson	INRIX
Todd Kell	PBS&J

Consultant Support Staff:
Karen Jehanian/Joanna Reagle, KMJ Consulting, Inc.