



## Vehicle Probe Project Committee Monthly Status Webcast September 20, 2011 Minutes

Participants – see attached

### Agenda

| Topic |  | Speaker         |
|-------|--|-----------------|
| 1     | Introductions and Welcome                          | George Schoener |
| 2     | Communications Update                              | Karen Jehanian  |
| 3     | Funding Update                                     | George Schoener |
| 4     | Contract Issues and Year 19 Update                 | Kathy Frankle   |
| 5     | INRIX Update                                       | Rick Schuman    |
| 6     | Data Validation                                    | Stan Young      |
| 7     | Spotlight Presentation: VPP Suite (PM Tool) Update | Michael L. Pack |
| 8     | Agency Questions and Updates                       | All             |
| 9     | Participation in Meetings/Conferences              | Karen Jehanian  |
| 10    | Review of Action Items from this call              | Karen Jehanian  |
| 11    | Selection of Date for Next Webcast                 | All             |

#### **1. Introductions and Welcome**

George Schoener opened the webcast at 10:30 a.m. by welcoming everyone and thanking all participants. The following is a summary of the discussion. These meeting minutes, the webcast presentation and all Vehicle Probe Project (VPP) information are available at:

<http://www.i95coalition.net/i95/Projects/ProjectDatabase/tabid/120/agentType/View/PropertyID/107/Default.aspx> (Most documents may be found on the 'Highlights' page).

#### **2. Communications Update**

Karen Jehanian reviewed the correspondence sent to the project team and the website postings since the last webcast.

#### **3. Funding Update**

George Schoener reviewed how the Coalition has received its funding through a set-aside under the ITS research program in SAFETEA-LU. He explained that the US DOT decided not to fund the set-asides and earmarks including funds for the I-95 Corridor Coalition. However, he explained that the Coalition has assembled funding for the Coalition's portion of the Vehicle Probe Project from July 1, 2011 through June 30, 2012. George also explained that the USDOT is planning to conduct a competition for funding and noted that the announcement/information is currently



being reviewed within FHWA and is expected to be released soon. George will continue to keep this project team apprised of any developments. Finally, George noted that on Friday, September 16, 2011, the President signed into law H.R. 2887, the “Surface and Air Transportation Programs Extension Act of 2011,” which extends through March 31, 2012, funding for programs funded from the Highway Trust Fund (HTF).

George noted that a meeting of the Coalition’s Executive Committee is being held on September 22, 2011. They will be discussing the future of the Coalition’s projects including the VPP.

**4. Contract Issues and Year 19 Update**

Kathy Frankle reviewed the funding status for the VPP. Kathy noted that the Pooled Fund has been cleared and that three states have committed: Virginia, Rhode Island, Georgia. Delaware will commit in October 2011.

| State          | Core Miles | Expansion Miles | Funding        | Status                                 |
|----------------|------------|-----------------|----------------|--|
| Maine          | 53         | N/A             | N/A            |  |
| New Hampshire  | 16         | N/A             | N/A            |  |
| Massachusetts  | 88         | N/A             | N/A            |  |
| Rhode Island   | 78         | 0               | Pooled Fund    | Committed to Pooled Fund Study         |
| Connecticut    | 111        | N/A             | N/A            |  |
| New York       | 24         | N/A             | N/A            | Transcom is reviewing vendors          |
| New Jersey     | 471.7      | 423.6           | UMD Contract   | Contract modification completed        |
| Pennsylvania   | 148.7      | 488             | State Contract | State contract mod partially complete  |
| Delaware       | 46         | 0               | Pooled Fund    | Committing to Pooled Fund Study in Oct |
| Maryland/DC    | 301.1      | 420.1           | UMD Contract   | Contract completed                     |
| Virginia       | 309.5      | 198             | Pooled Fund    | Committed to Pooled Fund Study         |
| North Carolina | 261.8      | 1,291.2         | UMD Contract   | Contract modification completed        |
| South Carolina | 220        | 980             | UMD Contract   | Contract modification completed        |
| Georgia        | 139.1      | 0               | Pooled Fund    | Committed to Pooled Fund Study         |
| Florida        | 728        | 533             | UMD Contract   | Contract modification completed        |

**5. INRIX Update**

Rick Schuman presented the project statistics about service. He discussed the update to the Project Interface Guide, noting that version 3.4 is currently in final review and will be posted to the Coalition website in September. He reviewed the primary changes which include: interchange ramp data access and custom TMC set/coverage process.

Rick also reviewed the current freeway miles covered by the VPP and expansions, which total over 7000 miles. He discussed the ramps being included in this project. Rick noted that with all of the expansions, the states currently fund 70% of the project cost.



| State          | "Freeway" Miles |               |               |
|----------------|-----------------|---------------|---------------|
|                | Core            | Expansions    | Total         |
| Maine          | 0               | 0             | 0             |
| New Hampshire  | 0               | 0             | 0             |
| Massachusetts  | 0               | 0             | 0             |
| Rhode Island   | 78              | 0             | 78            |
| Connecticut    | 0               | 0             | 0             |
| New York       | 0               | 0             | 0             |
| New Jersey     | 471.7           | 423.6         | 895.3         |
| Pennsylvania   | 148.7           | 488           | 636.7         |
| Delaware       | 46              | 0             | 46            |
| Maryland/DC    | 301.1           | 445.1         | 746.2         |
| Virginia       | 309.5           | 198.6         | 508.1         |
| North Carolina | 261.8           | 1291.2        | 1553          |
| South Carolina | 0               | 1200          | 1200          |
| Georgia        | 139.1           | 0             | 139.1         |
| Florida        | 728             | 533           | 1261          |
| <b>Total</b>   | <b>2483.9</b>   | <b>4579.5</b> | <b>7063.4</b> |

| State          | Interchanges Covered |
|----------------|----------------------|
| Rhode Island   | 5                    |
| New Jersey     | 21                   |
| Pennsylvania   | 22                   |
| Delaware       | 3                    |
| Maryland       | 24                   |
| Virginia       | 19                   |
| North Carolina | 34                   |
| South Carolina | 13                   |
| Georgia        | 0                    |
| Florida        | 18                   |
| <b>Total</b>   | <b>159</b>           |

## 6. Data Validation

Stan Young reviewed the Data Validation effort to date noting that data was collected in Delaware, Pennsylvania, and Virginia during the summer. Data collection is planned for Maryland at the end of September. Stan reviewed the results from the data validation effort conducted in New Jersey during April 2011. He explained that this validation covered both freeway segments and ramps. He further noted that on both types of facilities, both local and express lanes were present. He also noted that near the Lincoln Tunnel, minimal congestion was found which was unexpected. Stan presented the results of the freeway data validation and stated that the AASE and SEM are within specifications for all speed bins. Stan briefly described the ramp validation noting that 80% of the congestion on ramps was due to one event and that overall, the ramps performed well given the congestion.

Stan noted that results have been delayed due to processing glitches for the validation of the next New Jersey data set (collected in May 2011). He explained that spikes in the ground truth data were not adequately being filtered out and they are currently addressing this issue.

Stan briefly reviewed those papers related to the VPP that are being presented at the ITSWC in October 2011.



## 7. **Spotlight Presentation: VPP Suite (PM Tool) Update**

Michael L. Pack of the University of Maryland CATT Laboratory presented an update on the Vehicle Probe Project Suite. He explained the process to obtain access to the VPP Suite of tools. Michael noted that agencies must have a signed Data Use Agreement (DUA) in order to access the VPP Suite. Important links for the VPP Suite are noted below:

- VPP Analysis Suite - <http://vpp.ritis.org>
- Send account requests to [accounts@ritis.org](mailto:accounts@ritis.org)
- [Send feedback to vpp-feedback@ritis.org](mailto:Send%20feedback%20to%20vpp-feedback@ritis.org)
- [Tutorial and Summary: http://vpp.ritis.org/suite/screencast/](http://vpp.ritis.org/suite/screencast/)

Michael reviewed the usage statistics noting that as of September 19, 2011, over eight billion records have been downloaded. Next, Michael provided a live demonstration of the VPP Suite. He showed participants how to obtain access and then presented several features including:

- VPP Suite Dashboard – provides a real-time view of bottlenecks and incidents (where available)
- Massive Raw Data Downloader – noting that processing time is dependent size of request and number of other requesting being processed
- Historic Data – demonstrated how the data could be shown in line graphs, contour plots, trend maps, tables, and congestion scans.

Several questions were asked during and after Michael's presentation. He noted that graphs created using historical data in the VPP Suite may be printed or saved (a print icon is shown in the upper right corner of the screen). A few recommendations were made during the presentation regarding the presentation of the graphs. Michael asked that all participants use the tools and provide any additional comments to [vpp-feedback@ritis.org](mailto:vpp-feedback@ritis.org).

***NOTE: Links and contact information for pertinent project information are available on the "VPP Quick Reference Guide", sent with these meeting minutes and available on the Coalition website.***

## 8. **Agency Questions and Updates**

Karen Jehanian opened the floor to agencies using the Vehicle Probe Project data to ask questions and provide updates. There were no questions or updates.

## 9. **Participation in Meetings/Conferences**

Karen Jehanian reviewed the upcoming meetings to be held on October 5, 2011 at DVRPC in Philadelphia, PA and via web as noted below:

- I-95 CC IEF on Using Multiple Data Sources for Planning and Operations (in the morning)
- I-95 CC Travel Information Program Track Committee Meeting (in the afternoon)

She also summarized the I-95 Corridor Coalition's participation in upcoming ITS World Congress particularly the sessions involving the VPP. A table highlighting these sessions is attached to the meeting minutes.



#### **10. Review of Actions Items from this Webcast**

The following action item was generated from the webcast:

| # | Responsible Party | Action Item   |
|---|-------------------|---|
| 1 | VPP Mgmt Team     | Provide the VPP Team with information and links for the VPP Suite including link for comments and feedback about the tools. |

#### **11. Selection of Date for Next Project Team Webcast**

The date for the next meeting was proposed and agreed upon as **Thursday, November 3, 2011 at 10:30 am.**

Any questions in the meantime should be directed to:

- Stan Young at 301.403.4593 or [seyoung@umd.edu](mailto:seyoung@umd.edu)
- Rick Schuman at 407.298.4346 or [rick@inrix.com](mailto:rick@inrix.com)
- Karen Jehanian at 610.228.0211 or [kjehanian@kmjinc.com](mailto:kjehanian@kmjinc.com)
- Contract expansion issues should be directed to Kathy Frankle at 410-414-2925 or [kfrankle@umd.edu](mailto:kfrankle@umd.edu)

The webcast was adjourned at approximately noon.



**Minutes  
Vehicle Probe Project Committee  
Webcast/Conference Call  
September 20, 2011**

**PARTICIPANTS**

|                                     |
|-------------------------------------|
| <b>I-95 Corridor Coalition:</b>     |
| George Schoener<br>Marygrace Parker |

| <b>Vehicle Probe Project Webcast Attendees:</b>                      |  |
|--|--|
| Gene Glotzbach   | Florida DOT                                      |
| Hugh Colton  | Georgia DOT                                      |
| Glenn McLaughlin, Steve Roshawn                                      | Maryland SHA/CHART                               |
| John Allen, Sue Catlett, Jim Hadden, Simon Nwachukwu                 | New Jersey DOT                                   |
| Nathan Erlbaum, Todd Westhuis  | New York State DOT                               |
| Jay Sengoz   | Pennsylvania DOT                                 |
| Dan Herstine   | Rhode Island DOT                                 |
| Scott Silva, Scott Cowherd   | Virginia DOT                                     |
| Bob Rupert, Rich Taylor  | FHWA   |
| Bala Akundi, Ed Stylc  | Baltimore Metropolitan Planning Organization     |
| Charles Dougherty  | Delaware Valley Regional Planning Commission     |
| Jean Friedberg   | Fort Meade Regional Growth Management Committee  |
| Andrew Meese   | MWCOG/TPD  |
| Mary Ameen, Anson Gock, Keith Miller, Solomon Caviness, Swena Gulati | North Jersey Transportation Planning Association |
| Tiffany Tran   | Richmond Regional Planning District Commission   |
| Rick Schuman   | INRIX  |
| Kathy Frankle, Rahul Nair, Stan Young                                | University of Maryland                           |
| Michael Pack   | University of Maryland – CATT Lab                |
| Todd Kell  | Atkins   |
| <b>Vehicle Probe Committee Members – Not in Attendance</b>           |  |
| Delaware DOT, North Carolina DOT, South Carolina DOT                 |  |

|   |
|---|
| <b>Consultant Support Staff:</b>                      |
| Karen Jehanian, Joanna Reagle<br>KMJ Consulting, Inc. |



|   | Title   | Session Information   | Primary Author/contact | Additional Authors   |
|---|---|---|------------------------|--|
| 1 | An Interactive, Web-based, Mobility Performance Measures Application Utilizing Probe Data                             | <b>SESSION #: TS23</b><br><b>Presentation in Incident Detection and Management Session - Oct 18, 2011, 8:30 AM-10:00 AM</b>   | Michael Pack           |  |
| 2 | Probability of Real-Time Data as a Function of Hourly Volume, Assessment of the I-95 Vehicle Probe Project Data       | <b>SESSION #: TS58</b><br><b>Presentation in Vehicle Probe for Travel Time Analysis Session - Oct 18, 2011, 4:00 PM-5:30 PM</b>   | Stan Young             | Hadi Sadrsadat, UMD  |
| 3 | Analysis of Level of Confidence Score within the I-95 Vehicle Probe Project   | <b>SESSION #: TS58</b><br><b>Presentation in Vehicle Probe for Travel Time Analysis Session - Oct 18, 2011, 4:00 PM-5:30 PM</b>   | Stan Young             | Nayel R. J. Urena Serulle, UMD   |
| 4 | Validation of the Historical Vehicle Probe Project Speed by Using Bluetooth Speed as the Ground Truth                 | <b>SESSION #: TS80</b><br><b>Presentation in Data Collection Using Bluetooth Session - Oct 19, 2011, 1:30 PM-3:00 PM</b>  | Stan Young             | Elham Sharifi, UMD   |
| 5 | Challenges to Effective Arterial Traffic Monitoring: Lessons from the I-95 Corridor Coalition's Vehicle Probe Project | <b>SESSION #: TS103</b><br><b>Presentation in Traffic Management Case Studies Using Vehicle Probe Data Session - Oct 20, 2011, 1:30 PM-3:00 PM</b>  | Stan Young             | George Schoener, I-95 Corridor Coalition, Karen Jehanian, KMJ, Nayel R. J. Urena Serulle, UMD                                |
| 6 | Data Use for Operations Performance and Planning  | <b>SESSION #: AM25</b><br><b>Session to be conducted - Wednesday, Oct. 19, 2011, 1:30 – 3:00 p.m.</b><br>This is an ICS session sponsored by FHWA. Other speakers include: Alex Estrella, San Diego Association of Governments and Koorosh Olyai, Dallas Area Rapid Transit. Brain Cronin for RITA will be the moderator. | Karen Jehanian         | George Schoener, I-95 Corridor Coalition - Project overview and Regional benefit from probe data for operations and planning |
|   |   |   |                        | Michael Pack, UMD CATT Lab – Using data for Operations (RITIS)   |
|   |   |   |                        | Andrew Meese, MWCOG – Metropolitan Area Transportation Operations Coordination (MATOC) – A Practical application             |