



I-95 CC – Volume & Turning Movement Project Kick Off Meeting July 15, 2016

Agenda:

#	Topic	Speaker
1	Introductions and Welcome	Trish Hendren, I-95 Corridor Coalition
2	Project Overview <ul style="list-style-type: none">• Background• Objectives• Volume Data Uses	Stan Young, National Renewable Energy Laboratory (NREL) Kaveh Sadabadi University of MD CATT Lab
3	Expectations of Steering Committee <ul style="list-style-type: none">• Survey• Test Bed Donations	
4	Vendor Participation	
5	Unanswered Questions	
6	Project Deliverables and Timeline	
7	Wrap up & Next Steps	

Meeting Notes:

- The Volume and Turning Movements from Probe Data project was initiated in 2013 when the usefulness of probe data in operations and planning processes became clear. The goal of the project is to facilitate achieving viable volume and turning movement data through probe data.
- Currently, the Highway Performance Monitoring System (HPMS) data is currently state-of-practice in providing volume data, but it is limited and aggregated into hourly volumes. There is also a 2-3 year lag in reporting. Turning movement count data is rare as it is only collected for special studies.
- The objectives of this project are to develop a framework for the delivery of probe-based volume and turning movement data, understand and document data requirement needs for DOT applications, create calibration and validation protocols, provide data products and anticipate future needs.
- Stan Young (NREL) noted that the public entities will be the primary customer of the volume data rather than secondary, which will affect the calibration and validation procedures.
- Stan noted a network of calibrated count stations will ultimately need to be developed.



- The volume and turning movement data from probe data has both public and private sector uses.
- Stan noted a need to determine the way the product should be delivered – possibly similar to VPPI or a new way.
- Stan and Kaveh Sadabadi (UMD CATT) asked the steering committee to review a survey that has been developed (<http://tinyurl.com/zozbnvm>) and suggest potential users both within agencies and outside to participate in the survey. Stan noted that the primary audience is the I-95 Corridor Coalition but other national participants are welcome. Survey comments and a list of potential participants should be sent to Stan and Kaveh by July 29, 2016.
- Subrat Mahapatra (MD DOT SHA) noted that he is a part of a MMUT pooled fund study with Texas Transportation Institute (TTI) and he can coordinate with them on the survey and other participation.
- John Allen (UMD CATT) noted that the next VPP Suite User Group Meeting is scheduled for July 28, 2016 and he can coordinate with Stan and Kaveh to provide information on this effort.
- Stan and Kaveh asked the steering committee to indicate if they are interested in provided test bed information, what type of data each agency is interested in, and a point of contact by July 29, 2016. Stan and/or Kaveh will coordinate with each agency once all information has been provided. The point of contact should be able to ultimately provide volume data sources and locations/corridors/time periods critical to agency.
- The test bed of data is planned to be functional by the end of 2016. The test bed should ideally include information for different roadway classes, times of day, days of week, seasons, and traffic operation regimes (normal, accidents, congestion, etc.).
- Tianjia Tang (FHWA) noted that the FHWA has a publication of permanent counting stations on highways and provided the link:
<http://www.fhwa.dot.gov/policyinformation/tables/trafficmonitoring/>
- Mike Fontaine (VDOT) asked about the desired aggregation data and Kaveh said that raw data is preferable, but any data would be useful. Mike noted that the continuous count data is automatically aggregated by 5 or 15 minutes and Kaveh noted that is fine as long as the data isn't further aggregated.
- Stan noted that the vendors (HERE, INRIX and TomTom) are currently in the contract phase but he hopes to have that done by the end of 2016. Stan noted that the current 1%-3% probe sample rates appear to be on the verge of feasibility (not validated).
- Stan noted that there are many unanswered questions going into the first phase of this project, including coverage areas, event identifications, historic archive vs. real-time, aggregation, fidelity expectations, reporting, validation, and freight applications.
- The project will be two phases:
 - Phase 1 is the proof of concept phase and will last until the first quarter of 2017.
 - There will be a go/no-go re-scope decision by the end of the first quarter of 2017.
 - Phase 2 of the project will be product development and refinement and will last until the end of 2017.
- Stan noted that he will provide the scope of work (from end of 2015) to the steering committee.
- Mena Lockwood noted that they use side-fire radar for volume and speed data as the data is more defined (85th percentile speeds, etc.) than available probe data.



Action Items:

- **Stan Young** – Provide the steering committee with the original scope of work for the Volume and Turning Movements from Probe Data project. (Attached to this e-mail)
- **Steering Committee** –
 - Review the survey (<http://tinyurl.com/zozbvnm>) and provide feedback by July 29, 2016
 - Provide list of potential survey participants (both in and outside of your agency) by July 29, 2016
 - Indicate if interested in participating in the testbed, what kind of data most interested in, and identify a point of contact for your agency by July 29, 2016

Action Items:

Next meeting is Thursday, October 13, 2016 – 1:30-3:00PM (EDT)

Participants:

Project Team:
Trish Hendren, I-95 Corridor Coalition Stan Young, NREL Kaveh Sadabadi, UMD CATT Lab John Allen, UMD CATT Lab Kathy Frankle, UMD

Steering Committee:	
Erik Sabina	Colorado DOT
Glenn McLaughlin, Jerry Einolf, Nicole Katsikies, Subrat Mahapatra	Maryland DOT SHA
Ginna Reeder	Massachusetts DOT
Amar Pillai and Michael Dennis	North Carolina DOT
Scott Benedict	Pennsylvania DOT
Dipak Patel, Paul Thebo	South Carolina DOT
Mike Fontaine and Mena Lockwood	Virginia DOT
Robert Arnold, Robert Rupert, Tianjia Tang, Ed Strocko	FHWA
Jesse Buerk	DVRPC
Wenjing Pu	MWCOG
Joe Guthridge, Terri Johnson	HERE
Aaron Taylor	INRIX
Consultant Support Staff:	
Bridget Postlewaite, KMJ Consulting, Inc.	