

HW-07-08: Technology Experience and Interest Survey - Submit by July 25, 2008

AASHTO Technology Implementation Group (TIG) FY 2007 AASHTO TIG Focus Technologies

Three technologies: Wireless Vehicle Detection System (WVDS), Linear Reference System (LRS) and Surface Resistivity (SR) have been selected by the AASHTO TIG as the 2007 Focus Technologies. The selected of these technologies was based on the potential benefit our member agencies can reap with the implementation of these tools.

Below you will find three surveys, each contain identical questions dealing with the three Focus Technologies. Please reply to the brief request for information below concerning your agency's experience with each of these technologies.

This information your agency provides will guide the help form the Lead States Teams and will be utilized for following up surveys for each Focus Technology.

1) Identify Your Member Department

- Alabama
- Alaska
- Arizona
- Arkansas
- California
- Colorado
- Connecticut
- Delaware
- D.C.
- Florida
- Georgia
- Hawaii
- Idaho
- Illinois
- Indiana
- Iowa
- Kansas
- Kentucky
- Louisiana
- Maine
- Maryland
- Massachusetts
- Michigan
- Minnesota
- Mississippi
- Missouri
- Montana

- Nebraska
- Nevada
- New Hampshire
- New Jersey
- District of Columbia (Wash., DC)
- New Mexico
- New York
- North Carolina
- North Dakota
- Ohio
- Oklahoma
- Oregon
- Pennsylvania
- Rhode Island
- South Carolina
- South Dakota
- Tennessee
- Texas
- Utah
- Vermont
- Virginia
- Washington
- West Virginia
- Wisconsin
- Wyoming
- Puerto Rico
- Other

2) Contact Information

Your Name: _____

Technology Name: Surface Resistivity (SR)

Description: Surface Resistivity (SR) of saturated concrete is a non destructive test (NDT) testing technique that has been correlated to both ASTM C-1202 (AASHTO T277) and to concrete chloride diffusion tests (ASTM C1556 at 364 and 1092 days). Test does not have labor and time intensive specimen preparation steps like Rapid Chloride Permeability (RCP) and Rapid Migration Test (RMT) and the actual procedure is very quick (< 2 minute). SR is simple and the most economical test compared to other electrical indicators used as electrical indicator of permeability. SR does not have problems with specimen heating or epoxy disbondment so it is more reliable. SR can replace the RCP test. In addition preliminary tests show that SR test method has half the coefficient of variation of the RCP test and therefore is more reliable

3) Who is the contact person in your agency for the technology on *Surface Resistivity (SR)*?

Contact's Name: _____
Contact's Telephone Number: _____
Contact's Email Address: _____

4) Please check all boxes where the information describes your agency's experience with this technology:

- We have not used this technology.
- We have limited or no knowledge of this technology, and we are interested in receiving information about it.
- We are fairly familiar with this technology but have not yet tried it.
- We plan to try this technology on an upcoming opportunity.
- We have tried this technology and are evaluating its benefits.

5) Would your agency be willing to participate on the Lead State Team for this Technology?

- Yes
- No

Technology Name: Linear Reference System (LRS)

Description: The DOT Linear Reference System (LRS) is a technology to align the linear reference points in all DOT databases so information from crash statistics, pavement management and other business data can be accurately mapped and data more easily analyzed. Combining information from different data sources within a department of transportation has been an information processing concern. Spatial data, whether in the form of a mile marker, literal description or other location component, has varied in the many different databases used by the DOT over the years. Since a vast majority of the data collected by the DOT is referenced to the Earth in some manner, the use of spatial location and Geographic Information System products is the logical choice to accomplish this integration. Through this integration, the LRS improves data integration and access, improves accuracy, minimizes redundancy in DOT databases, minimizes data maintenance activities and includes all public roads.

6) Who is the contact person in your agency for the technology on *Linear Reference System (LRS)*?

Contact's Name: _____
Contact's Telephone Number: _____
Contact's Email Address: _____

7) Please check all boxes where the information describes your agency's experience with this technology:

- We have not used this technology.
- We have limited or no knowledge of this technology, and we are interested in receiving information about it.
- We are fairly familiar with this technology but have not yet tried it.
- We plan to try this technology on an upcoming opportunity.
- We have tried this technology and are evaluating its benefits.

8) Would your agency be willing to participate on the Lead State Team for this Technology?

- Yes
- No

Technology Name: Wireless Vehicle Detection Systems (WVDS)

Description: Wireless Vehicle Detection System uses technologies (example pavement-mounted magnetic sensors) to detect the presence and movement of vehicles. The technologies are wireless, transmitting their detection data in real-time manner to a nearby access point that then relays the data to one or more local or remote traffic management controllers and systems.

9) Who is the contact person in your agency for the technology on *Wireless Vehicle Detection Systems (WVDS)*?

Contact's Name: _____
Contact's Telephone Number: _____
Contact's Email Address: _____

10) Please check all boxes where the information describes your agency's experience with this technology:

- We have not used this technology.
- We have limited or no knowledge of this technology, and we are interested in receiving information about it.
- We are fairly familiar with this technology but have not yet tried it.
- We plan to try this technology on an upcoming opportunity.
- We have tried this technology and are evaluating its benefits.

11) Would your agency be willing to participate on the Lead State Team for this Technology?

- Yes
- No

If you have any questions regarding these technologies, please contact:

Keith M. Platte, P.E.
AASHTO Program Director of Materials and Product Evaluation
Ph: 202 624 7830
Fax: 202 624 5469
Email: kplatte@aaashto.org

If you need assistance with the survey, please contact Marty Vitale, 202-624-5862 or email: mvitale@aaashto.org.