



R06D Advanced Methods to Detect Pavement Delamination

Peer Exchange

(August 2, 2018)

Steve Cooper

FHWA Resource Center







Objectives

- Technology Demo MnRoads
- Share Field Trial Results
- Share Vendor information
- Hear from other Guests
- Strengthen Partnerships & Communication
- Post SHRP2 Advancement -Brainstorming

Advanced Methods to Identifying Pavement Delamination (R06D)

CHALLENGE:

Asphalt pavements with delamination problems experience considerable early damage. Rapid detection of the existence and extent of delamination is key for determining appropriate rehab strategies and extending pavement life.

RESEARCH:

Identify and develop NDT technology that can:

- Detect & quantify delamination in HMA
- Operate at reasonable traveling speed
- Cover full-lane width

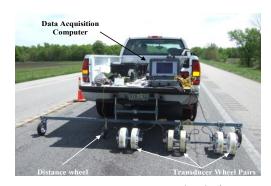
ROUND 7 Proof-of-Concept Agencies:

- FL, TX, NM, MN, CA & KY
- Focused on field validation and assist in advancement of one or both technologies.





GPR Antenna Array (3-D Radar)



Impact Echo (IE) /
Spectral Analysis of Surface Waves
(SASW) Scanning System

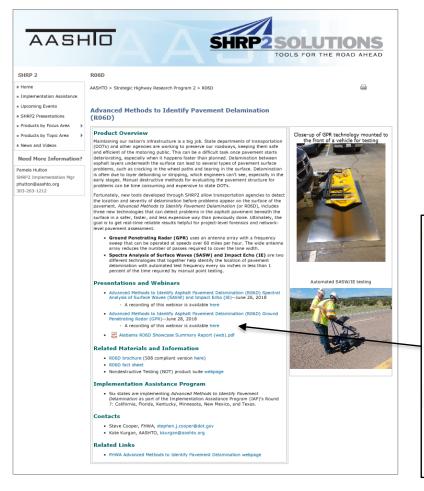
Remaining Contract Support

AASHTO R06D Task Order Support till April 30, 2018

- ➤ Summary of Peer Exchange
- > Final Report of Findings
- ➤ Maintenance of Website

For More Information on SHRP2 and R06D

AASHTO: http://shrp2.transportation.org/Pages/R06C_RapidTechnologiestoEnhance QualityControl.aspx



Presentations and Webinars

- Advanced Methods to Identify Asphalt Pavement Delamination (R06D) Spectral Analysis of Surface Waves (SASW) and Impact Echo (IE)--June 26, 2018
 - · A recording of this webinar is available here
- Advanced Methods to Identify Asphalt Pavement Delamination (R06D) Ground Penetrating Radar (GPR)--June 28, 2018
 - · A recording of this webinar is available here
- Alabama R06D Showcase Summary Report (web).pdf

Related Materials and Information

- R06D brochure (508 compliant version here)
- · R06D fact sheet
- · Nondestructive Testing (NDT) product suite webpage

FHWA Support

- ➤ Provide continued support to agencies in advancing efforts post SHRP2.
 - FHWA Involvement/Support subject to detailed planning and national interest.

Post SHRP2 Brainstorming (FHWA Interest)

- Did we walk away with clear direction on what we as a group want to accomplish Post SHRP2?
- What are our needs (more research, more field validation, spec development, technology advancement, etc.)?
- Future Communication (Working Groups, Peer Exchanges, Webinars, etc.)?
- Who will do what?



Special Thanks

- AASHTO / NCAT
- MN DOT

