NDT for Concrete Tunnel Linings (R06G)

AASHTO Technical Subcommittee for Tunnels (T-20)
June 24th, 2014
Lining Inspection Issues

Method/Access/Speed/Coverage
Solution: NDT Technologies

Methods detecting deterioration/defects within at least 1 sqft and up to 4 inches deep.

**Mobile Scanning**
- SPACETEC scanner
- Air-coupled radar (GPR)
- Digital Photogrammetry

**Hand-held Technologies**
- Thermal camera
- Ground-coupled GPR
- Ultrasonic tomography
- Ultrasonic echo
- Portable seismic property analyzer
For More Information

Andrew Wimsatt, Research Division Head
Texas A&M Transportation Institute
For “Summary” Information

SHRP2 “NDToolbox”
(Coming soon: FHWA NDE Web Manual)

Description
Physical Principle
Applications
Performance
Limitations
Equipment
Test Procedures
Data Presentation
SHRP2 Implementation Assistance Program

**Rounds 1-3:** 14 products funding over 200 projects in 48 states

**Round 4:** 12 products – **Open May 30th to June 27th**
### SHRP2 Implementation Assistance Program

#### R06G Implementation Funding = $500,000

<table>
<thead>
<tr>
<th>Proof of Concept Pilot</th>
<th>Lead Adopter Incentive</th>
<th>User Incentive</th>
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<tbody>
<tr>
<td>To evaluate product readiness.</td>
<td>To help offset costs associated with product implementation and risk mitigation.</td>
<td>To support implementation activities, such as conducting internal assessments, changing processes, and organizing peer exchanges.</td>
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**Two Proof-of-Concept awards at up to $250,000 each.**

Number/amount of awards may vary based on applications received. Additional awards may be made in future implementation assistance rounds.
For *Even More* Information

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[www.fhwa.dot.gov/GOSHRP2](http://www.fhwa.dot.gov/GOSHRP2)