37 STATES PARTICIPATE IN 119 SHRP 2 ACTIVITIES

[JUNE 2013]

Nondestructive Testing to Identify Delaminations between HMA Layers (project R06D)
Kansas, Maine
Kansas DOT and Maine DOT participated in field tests of NDT techniques to detect HMA-layer delamination.

Real-Time Smoothness Measurements on Portland Cement Concrete Pavements During Construction (project R06E)
Arkansas, Georgia, Michigan, New York, Texas
In each of these states, the DOT hosted field evaluations of real-time smoothness measuring devices for portland cement concrete (PCC).

Development of Continuous Deflection Device (project R06F)
Virginia
Virginia DOT participated in field tests of a continuous pavement deflection device.

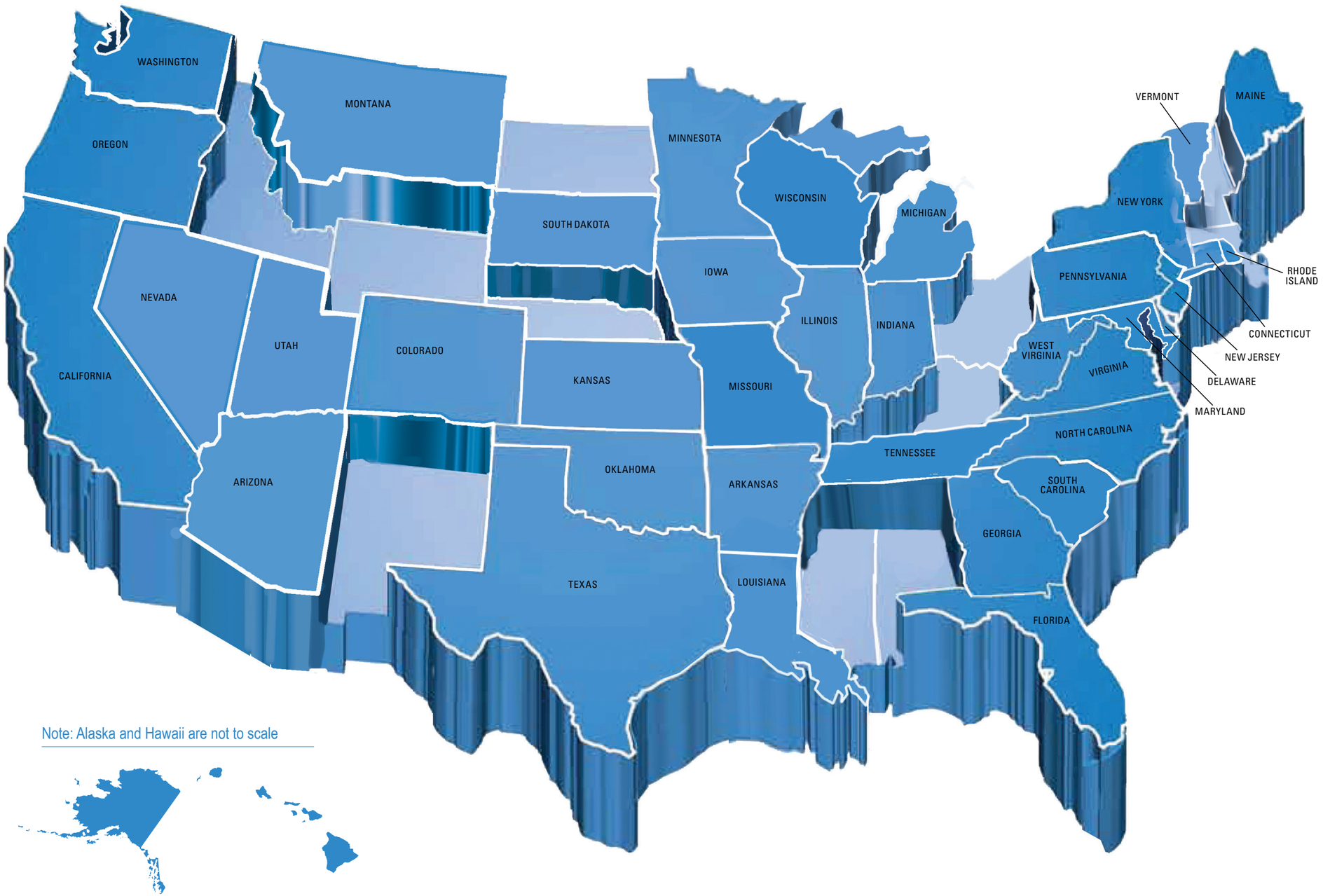
Nondestructive Testing Methods for Mapping Defects behind or within Tunnel Linings (project R06G)
Colorado, Texas, Virginia
NDT technologies for tunnel lining inspections were tested on Chesapeake Bay Bridge Tunnel in Virginia; Washburn Tunnel in Harris County, Texas; and Colorado DOT's Eisenhower Memorial Tunnel, Hanging Lake Tunnel, and No Name Tunnel.

Performance Specifications for Rapid Renewal (project R07)
Louisiana, Missouri, Virginia
Missouri DOT field tested a specification for performance-based earthworks/pavement foundation using intelligent compaction technology. Performance specifications for concrete bridge decks were tested in Virginia. Louisiana DOT assisted on field demonstration of intelligent compaction technology on an entire pavement section, including soil subgrade, subbase, and HMA layers.

Innovative Strategies for Managing Complex Projects (project R10)
Colorado, Michigan, Two Additional Validations TBD
This project conducted pilot tests of the five–dimensional complex project management tool in Colorado and Michigan. Two validations are also planned with other states (location TBD).

Strategic Approaches at the Corridor and Network Level to Minimize Disruption from the Renewal Process (project R11)
Arizona, Iowa, Additional Pilots Planned for New York and Florida
Arizona and Iowa conducted validation tests of a tool to assess optimal project sequencing and determine cost-effectiveness of strategies to minimize, mitigate, and manage road-user costs. Pilot tests in New York and Florida will use the software to analyze projects currently in the planning phase.

Identification of Utility Conflicts and Solutions (project R15B)
Arkansas, South Dakota
The Arkansas State Highway and Transportation Department and South Dakota DOT hosted sessions to pilot training materials that were developed as part of this project.

Composite Pavement Systems (project R21)
Illinois, Minnesota
The Illinois Tollway Authority designed and constructed composite pavements using the guidance developed in this project. Minnesota DOT participated in a demonstration project that included the construction, data collection, and monitoring of PCC/PCC and HMA/PCC test cells.

Achieving Long Life with Existing Pavements (project R23)
Washington State
Washington State DOT pilot tested guidelines for achieving long life with existing pavements, which were based on this research, on a major highway reconstruction project.