











# **Program Update**







## Overview

## Program:

- 9 year research program
  - Research 90% complete.
  - \$130 M for Implementing 60+ products
- Renewal Focus Area
  - Implementation Lead is FHWA Office of Infrastructure
  - Focus on minimum disruption to highway users
  - 28 Products
- Implementation Assistance
  - Application process
  - 135 projects in 38 States



RO4: Innovative Bridge Designs for Rapid Renewal.

#### **Product Focus:**

- Target is standard everyday bridges.
- Toolkit for prefabricated bridge elements
- Proven techniques

- 7 States Lead Adopters + 1 Federal Project
- Construction this year
- Showcases and other events to follow





R06A: NDT for Concrete Bridge Decks.

#### **Product Focus:**

- Identify appropriate technologies for NDT
- Minimize traffic disruption
- Develop Toolkit for NDE

- Solicitation Planned for Summer 2014
- Toolkit to be available this year
- Showcases and other events to follow



R06G: NDT for Tunnel Linings.

#### **Product Focus:**

- Identify effective technologies for NDT on tunnel linings
- Minimize traffic disruption, keep costs down
- Meet Inspection Requirements

- Solicitation Planned for Summer 2014
- Technology Demonstrations
- Showcases and other events to follow



## R19A: Long Life Design for Bridges.

#### **Product Focus:**

- Systematic design for extended service life
- Techniques for new construction and rehabilitation
- Small to medium size bridges

- Solicitation Planned for Summer 2014
- Guides and Training to be available
- Technology Demonstrations
- Showcases and other events to follow





R19B: Service State Design for Bridges.

#### **Product Focus:**

- Longer and more predictable service life
- LRFD Design Service Limits

- Solicitation Planned for early 2015
- Toolkit being developed
- Technology Demonstrations and Showcases planned.



**R05: Precast Concrete Pavement** 

#### **Product Focus:**

- Demonstration of benefits
- Longer and more predictable service life

- 5 States selected to construct demonstration projects
- ETG formed
- Case Studies and Outreach planned.





R06C: Quality Control of Asphalt Pavements during Construction

#### **Product Focus:**

- Use of IR and GPR during Asphalt Pavement Construction
- Improved Quality Control of HMA paving

- Solicitation Planned for Summer 2014
- Technology Demonstrations and Showcases planned.



R06E: Real-time Concrete Pavement Smoothness (NDT)

#### **Product Focus:**

- Improved NDT during Construction
- Smoother and longer lasting pavements

- Solicitation Planned for Summer 2014
- Equipment Lease program
- Workshops and Outreach planned



## **R21: Composite Pavements**

#### **Product Focus:**

- Improved Design for 2-Lift PCC and AC/PCC Composite Pavements
- Improved service life

- Solicitation Planned for 2014
- Construction Projects
- Technology Demonstrations
- Case Studies and Showcases planned





### **R23: Pavement Renewal Solutions**

#### **Product Focus:**

- New guidelines for alternatives to renewal approaches
- Web-based pavement design scoping tool

- 5 States Lead Adopters / 4 States Technical Support
- Scoping Tool now available
- Project Assessment Manual
- Guide Specifications
- Technology Demonstrations and Showcases planned





R26: Preservation of High-Traffic-Volume Roadways.

#### **Product Focus:**

- Extend service life of high-traffic-volume highways
- Identify techniques and methods

- 14 States participating in projects
- Toolkit being developed
- Technology Workshops, Showcases and Peer Exchanges





# **Opportunity**

# **Participation:**

- Open to States and other highway owners
- Incentive funds provided to construct
- Easy Application process
- Several more rounds of projects are coming
- Focus on renewal, preservation, and innovation



## **Contacts:**

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