



# Using SHRP2 Innovations in the Real World

Russell McMurry, Commissioner,  
Georgia Department of Transportation

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U.S. Department of Transportation  
Federal Highway Administration





# Presentation Agenda



- **SHRP2 Update**
- **Mike Hancock**, Secretary, Kentucky Transportation Cabinet
- **Catherine C. McGhee**, Associate Director for Safety, Operations and Traffic Engineering, Virginia Center for Transportation Innovation and Research
- **Brian Mayhew**, Traffic Safety Systems Engineer, Traffic Safety Unit, North Carolina Department of Transportation

# SHRP2 Implementation

- **SHRP2 Solutions** – 63 products bundled into 40 implementation efforts
- **Solution Development** – processes, software, testing procedures, and specifications
- **Field Testing** – refined in the field
- **Implementation** – 300+ transportation projects expected through Round 6; goal is to adopt as standard practice
- **SHRP2 Education Connection** – connecting next-generation professionals with next-generation innovations





# Some Successes to Date

- 9 out of 13 new **bridges built** using *Innovative Bridge Designs for Rapid Renewal* (R04)
- New **websites** for major capacity and reliability products:
  - *PlanWorks* (C01) at <https://fhwaapps.fhwa.dot.gov/planworks>
  - *EconWorks/TravelWorks* (C03/11, C16) at [www.planningtools.transportation.org](http://www.planningtools.transportation.org)
  - National Operations Center of Excellence (L17) at [www.transportationops.org](http://www.transportationops.org)
- **122,000+ incident responders trained** through *National Traffic Incident Management Responder Program* (L12)



# Round 7 – Anticipated in 2016

- **Utility Bundle (*R01A/R01B/R15B*)**
- **Railroad DOT Mitigation Strategies (*R16*)**
- **Techniques to Fingerprint Construction Materials (*R06B*)**
- **Advanced Methods to Identifying Pavement Delamination (*R06D*)**
- **Guidelines for the Preservation of High-Traffic-Volume Roadways (*R26*)**
- **Nondestructive Testing for Tunnel Linings (*R06G*)**
- **Nondestructive Testing for Concrete Bridge Decks (*R06A*)**
- **Service Life Design for Bridges (*R19A*)**
- **Service Limit State Design for Bridges (*R19B*)**
- **Reliability Data and Analysis Tools (*L02/ L05/L07/ L08/ C11*)**
- **Reliability in Simulation and Planning Models (*L04*)**
- **Regional Operations Forum (*L36*)**



# Our Speakers

**Mike Hancock**

Secretary,

Kentucky Transportation Cabinet

***Improving Pavements by Design***



# Our Speakers

## **Catherine C. McGhee**

Associate Director for Safety, Operations  
and Traffic Engineering, Virginia Center for  
Transportation Innovation and Research

***Finding the Economic Benefits from  
Your Transportation Projects***



# Our Speakers



## **Brian Mayhew**

Traffic Safety Systems Engineer, Traffic Safety Unit, North Carolina Department of Transportation

***Preventing Lane Departure Crashes on Rural, Two-Lane Roads Using New SHRP2 Research***