

2ND
NATIONAL SUMMIT
ROAD



ON RURAL
SAFETY
bridging THE gap

Innovative Rural Safety Research: What is Needed to Get Rural to Zero?

December 6, 2018

Presented by:
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National
Center
for
Rural
Road
Safety

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Goals for Today

- Describe the NCHRP 20-122 Project background and process
- Identify additional safety research needs to be included in the roadmap



Session Outline

1:15-2:15 PM

- Introductions (10 min)
- Project Background (20 min)
- Safety Breakout (30 min)

2:30-3:30 PM

- 15 Topic Breakout (40 min)
- Recap (20 min)



Presentation Agenda

- Project Panel
- Project Overview
- Critical Needs Categories
- Project Process & Progress to Date
- Key Safety Issues
- Draft Safety Research Needs
- Next Steps
- Break-out Group Distribution



Project Panel

Charles Carr, MS DOT, Chair

Barbara Cline, Transit

Santo Grande, Transit

Ronald Hall, University/Tribal

Kristin Joyner, Transit

Peggi Knight, Iowa DOT

Dianne Kresich, AZ DOT

Dale Peabody, ME DOT

Robin Phillips, Transit

Fred Schmidt, University

Julie White, NC DOT

Pat Wise, MT DOT

Guohui Zhang, University

Jill Stark, FHWA Liaison

Elan Flippin, FTA Liaison

Caroline Kieltyka, AASHTO Liaison

Tim Klein, OST/R Liaison

Jennifer Weeks, TRB Liaison

Stephan Parker, NCHRP SPO



NCHRP 20-122 Overview

- **Identify critical rural transportation issues** that can be addressed by research through NCHRP and other research programs
- **Produce a research roadmap** that can assist state DOTs and other public agencies and help inform policy-driven investment decisions
- **Develop early-action items** and longer-term research needs



NCHRP 20-122 Overview

- Created a framework for the roadmap
 - Define different rural community types
 - Categorize rural critical needs
 - Create fact sheets as conversation starters



What is a Research Roadmap?

- Curated collection of Research Needs
- Helps establish near-term and long-term research agenda
- Helps define priorities and sequencing of research work
- Assists state DOTs, AASHTO, and TRB staff when considering proposed national studies
- Facilitates formation of state Pooled Funds Studies
- Lists potential research topics for MS and PhD students



Categories for Critical Needs

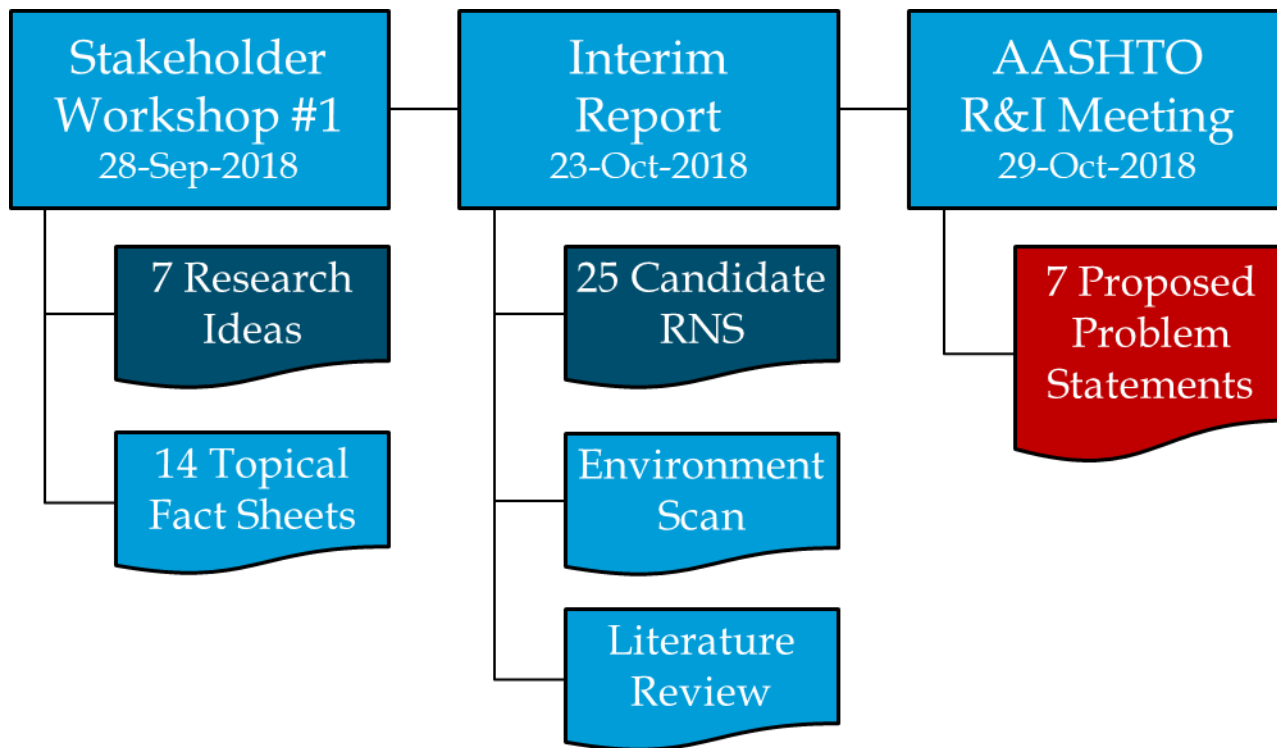
1. Active transportation
2. Workforce development
3. Transportation access and mobility
4. Intersection of health and transportation
5. Generational expectations, work & lifestyle
6. Transporting rural products to market
7. Weather, climate and resilience
8. Rural public and school transportation
9. Law enforcement, crime and drugs
10. Aviation
11. Connected and automated vehicles and emerging technologies
12. Tourism and the natural environment
13. Roadway infrastructure and balancing capacity with demand
- 14. Rural transportation safety**
15. Funding, policy and economy



Project Process



Progress to Date



Key Safety Issues

- Geometric design
- Crash types and countermeasures
- Safety culture
- Speed management
- Behavioral Interventions
- Teen and older drivers
- Tribal transportation safety
- Motorcycles and ATVs
- Child Passenger Safety



Key Safety Issues

- Human Factors
- Enforcement Laws and Policies
- Cross Jurisdictional Planning
- Retro-reflectivity and Nighttime Visibility
- Safety Performance Measures and Monitoring
- Systemic Safety
- Safety Data/Crash Records
- Incident Management
- Animal Vehicle Countermeasures



Draft Safety Research Needs

Please refer to the 11x17 handout



Questions & Contacts



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Break-out Groups (2)

- County Engineers
- State DOT
- FHWA
- Law Enforcement
- Planning Organizations
- Vendors
- University
- Other



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