



U.S. Department of Transportation  
**Federal Highway Administration**

**Office of Safety Research and Development**

# **HOW NDS FITS INTO THE RESEARCH PORTFOLIO**

**Monique Evans, P.E.  
Carol Tan, Ph.D.**

3<sup>rd</sup> International Symposium on Naturalistic Driving Research  
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# HOW NDS FITS INTO THE RESEARCH PORTFOLIO

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## Current/Upcoming Efforts

- Long-term data stewardship and ownership options (*Volpe*)
- Automated video decoding and feature extraction (*EAR*)
- Video analytics workshop → possible research solicitation (*EAR*)
- Establishing internal research priorities using SHRP2 data

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## Stewardship/Ownership Influencing Factors

- Long life expectancy of data
- Huge data sets require significant infrastructure
- Data owner has impact on legal and institutional requirements and costs
- SHRP2 ends March 2015

Goal is to maximize value of the investment

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## Stewardship/Ownership Study Objectives

- Identify long-term S/O options for NDS and RID databases that
  - Protect privacy of study participants
  - Provide wide access
  - Ensure sustainability for 20+ years
  - Minimize costs

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## Automated Video Decoding and Feature Extraction (*EAR*)

- Broad Agency Announcement
  - Focus: Automated video decoding and feature data extraction.
  - Funding: Max \$200k for Phase I. Up to \$800k follow-on funding possible.
  - Status: Selection made, in contracting.

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- Video Analytics Workshop *October 10-11, 2012*
  - Focus: Inside the vehicle; behavioral elements – e.g. gestures.
  - Experts in autonomous vehicles, machine vision, machine learning.
  - Second solicitation may be developed.

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## Establishing Internal Research Priorities Using SHRP2 Data

- SHRP2 developing new implementation plan
  - \$10 million set aside for Safety
- FHWA Relevance Assessment
  - All Safety Roadmap teams have identified current priorities in their roadmaps and future or advanced research needs that could be addressed using the SHRP2 data.
  - Safety Leadership Team selected top priorities
  - FHWA and NHTSA coordinating efforts

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## Shorter-term Efforts

- Expand internal NDS analysis capabilities
- Identify and secure funding for data stewardship and for research
- Partner with UTCs to address safety research priorities



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## Longer-term Efforts

- Provide technical guidance to key stakeholders
- Identify opportunities to link NDS/RID with other data sources



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# THANK YOU

### **Monique Evans**

Director, FHWA Office of Safety Research and Development

SHRP2 Safety TCC Liaison

[monique.evans@dot.gov](mailto:monique.evans@dot.gov)

### **Carol Tan**

Team Leader, Safety Management

[carol.tan@dot.gov](mailto:carol.tan@dot.gov)

### **Lincoln Cobb**

Technology Facilitator, FHWA Office of Safety Research and Development

SHRP2 Safety Implementation Coordinator

[lincoln.cobb@dot.gov](mailto:lincoln.cobb@dot.gov)

