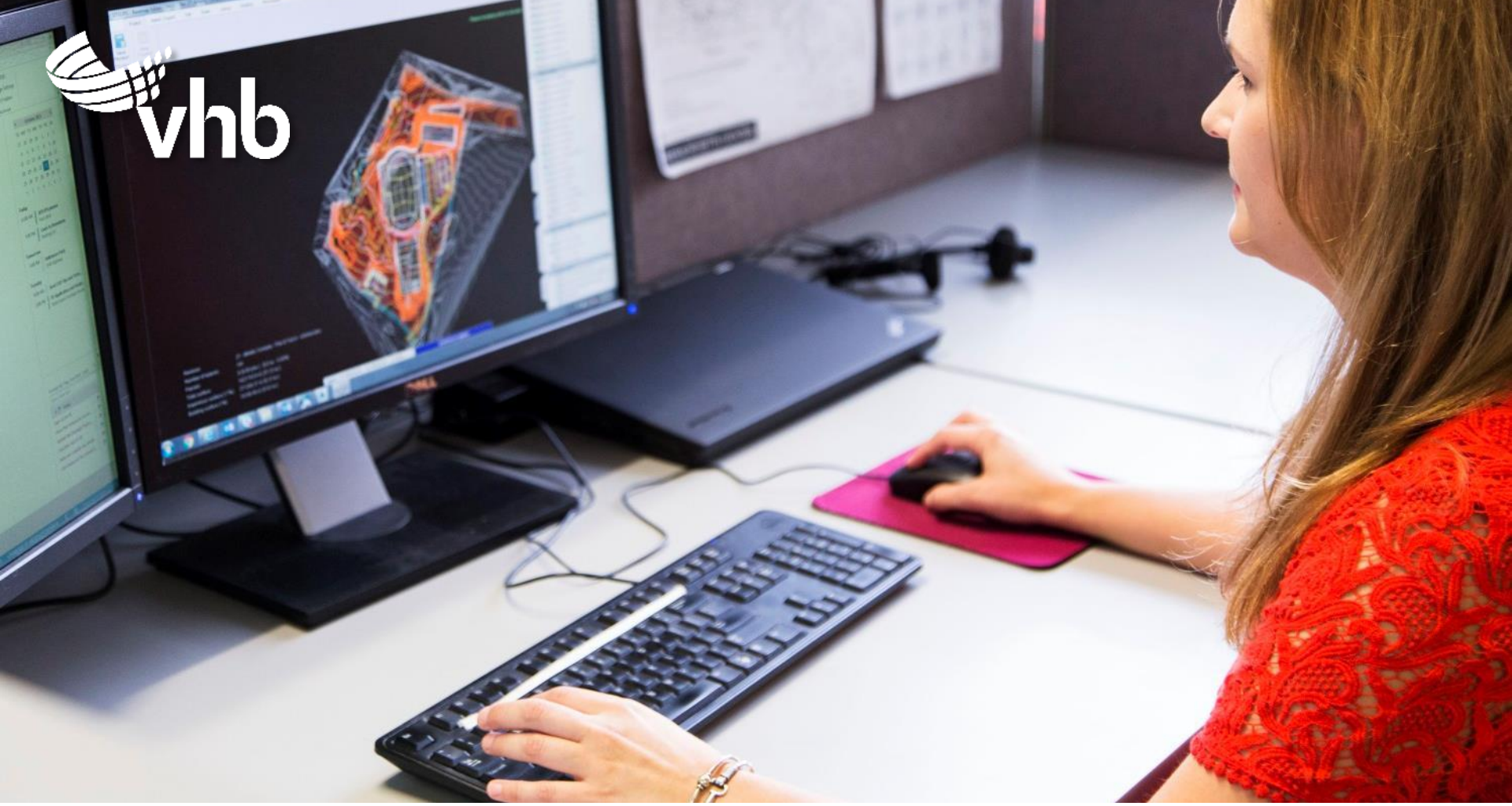


Data Integration for Safety Analysis

Presented by :
Elissa Goughnour | VHB

NASTO | July 11, 2017

**"What if we don't change at all ...
and something magical just happens."**

Benefits of Safety Data Integration

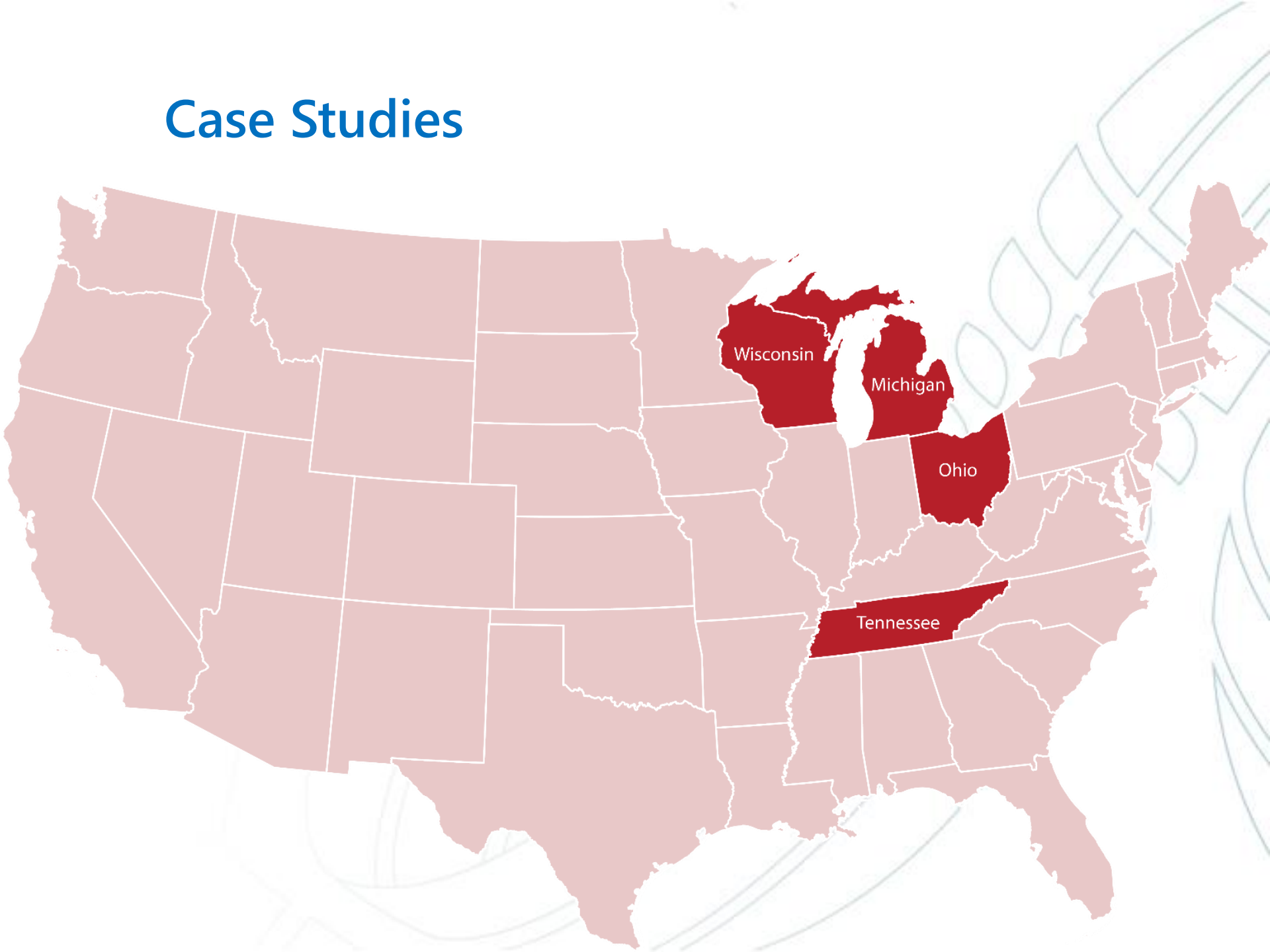
Current Challenges

- Lack of formal processes
- Partnerships across agencies
- Move to all public roads network

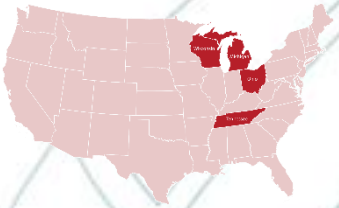
Integration of State and Local Data

- Built on the results of the Roadway Safety Data Program Capabilities Assessment
- Research, case studies, and pilot studies
- Resulted in guidance to assist agencies

Case Studies

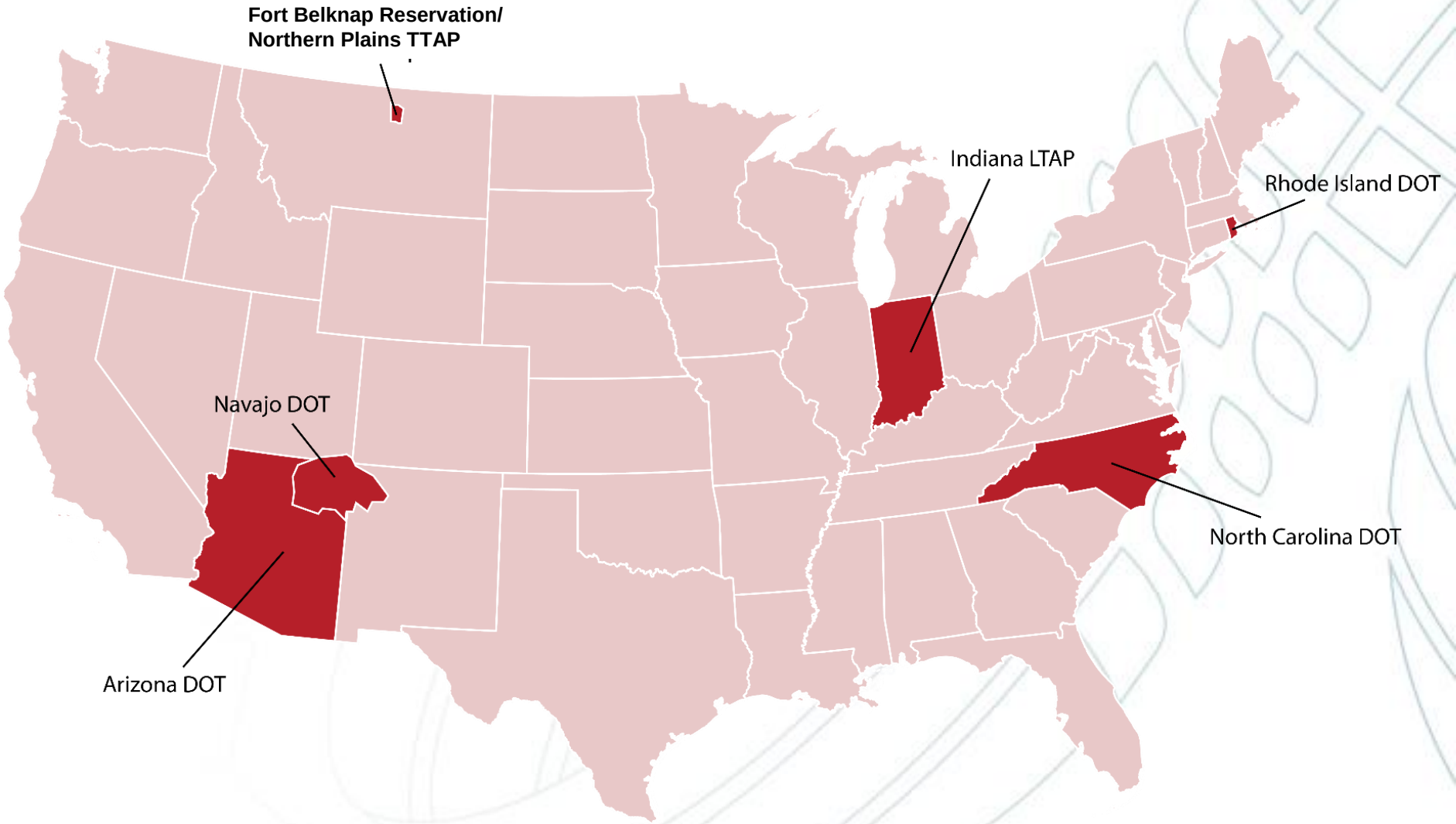


Case Study Findings

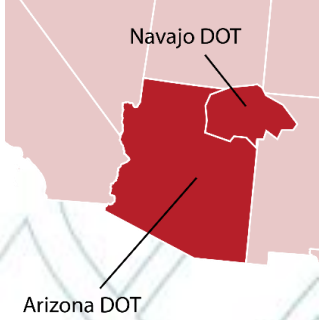


- Less duplication of data collection efforts
- Many paths to safety data integration
- States paid for local data collection
- Local input is required
- Executive-level support is key
- Plan for data maintenance

Work Plans and Pilot Studies

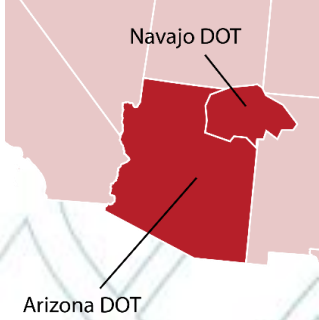


Arizona DOT Pilot Study



- Developed ETL process
- Transfer data from State and local sources into AASHTOWare Safety Analyst™

Navajo Nation DOT Pilot Study



- Geodatabase to manage data
- Evaluation of existing GIS data
- Recommendations on data governance and management practices

Indiana LTAP Pilot Study

- Technical support for GIS
- Data management and governance implementation
- Analytic training and support

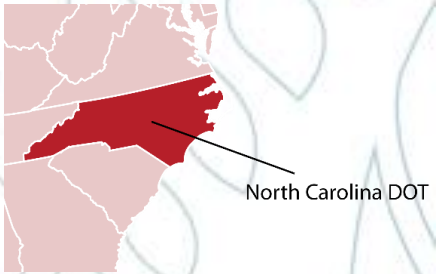
Rhode Island DOT Pilot Study

- Workflows and maintenance plan for MIRE database
- Data validation assistance
- Data analysis assistance and training

Fort Belknap Reservation/Northern Plains TTAP Work Plan

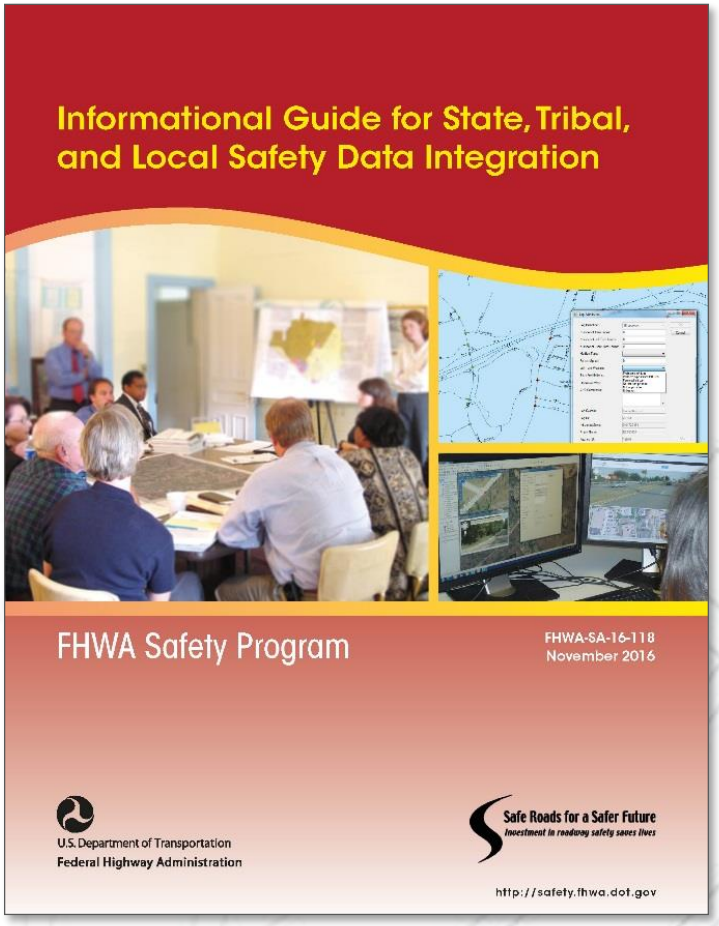
- GIS-based data integration
- Supports advanced analytic methods

North Carolina DOT Work Plan



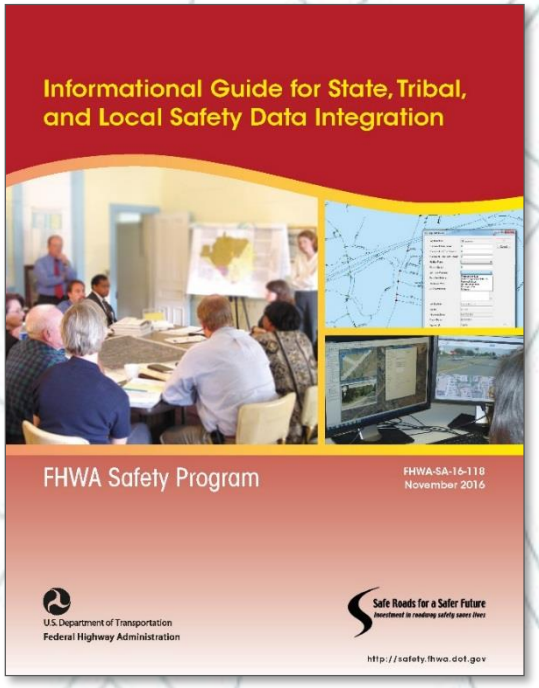
- GIS-based data integration
- Supports advanced analytic methods
- A plan to integrate local traffic data into the statewide traffic data system

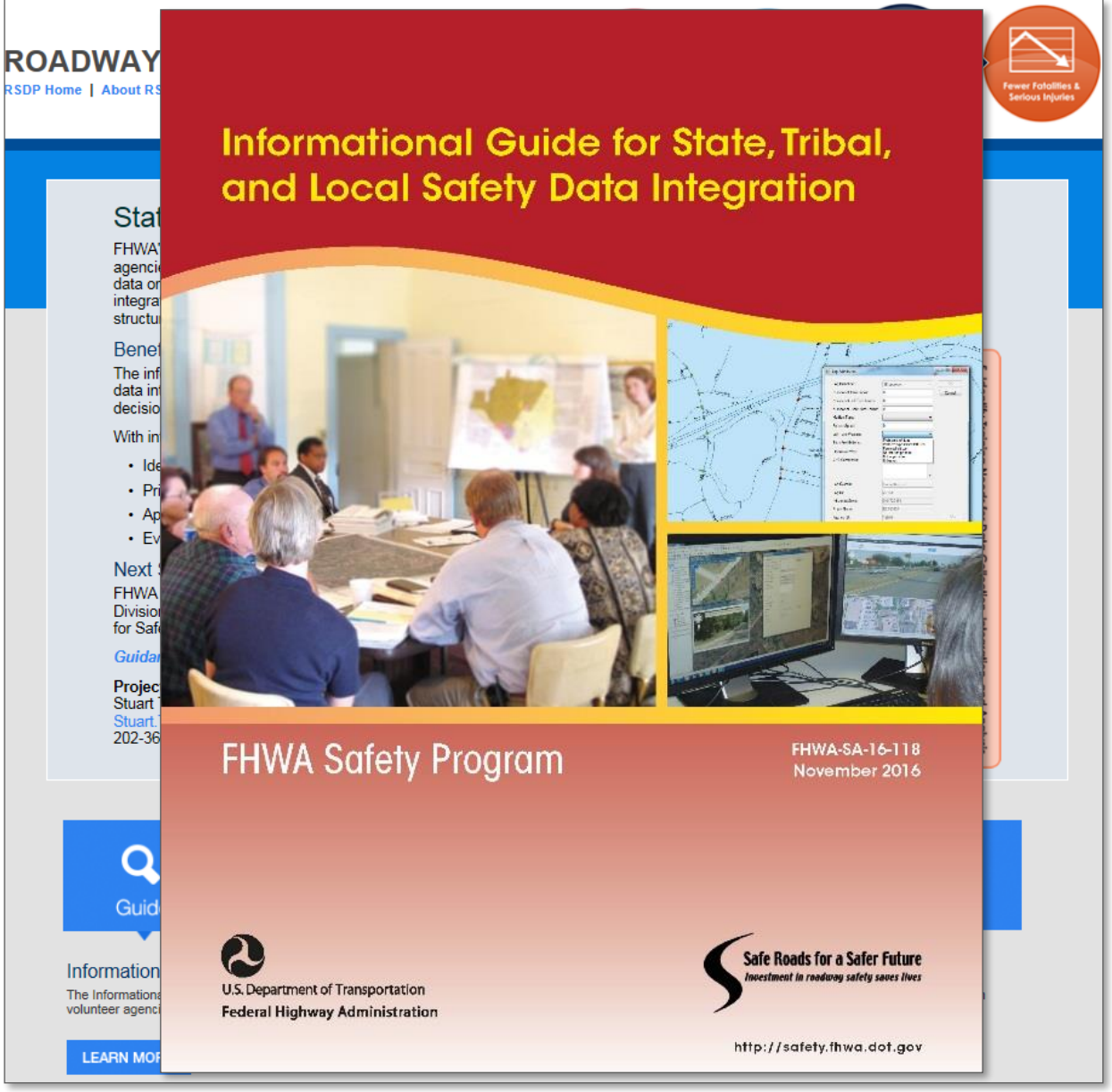
Informational Guide for State, Tribal, and Local Safety Data Integration



Purpose of the Guide

- Provide easy-to-use information to support data integration efforts
- Show examples from other States and agencies
- Identify potential partner agency need
- Direct users to web resources
- **Make data integration approachable!**





Want More Information?

https://safety.fhwa.dot.gov/rsdp/downloads/fhwasa16118.pdf

Questions?

Elissa Goughnour| egoughnour@vhb.com | 571.389.8118

www.vhb.com

vhb®

Offices located throughout the east coast