Data Integration for Safety Analysis

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"What if we don’t change at all ... and something magical just happens."
Benefits of Safety Data Integration

- Improved Data Collection and Analysis
- More Informed Decision Making
- Better Targeted Investments
- Fewer Fatalities & Serious Injuries
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 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
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
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!**
Informational Guide for State, Tribal, and Local Safety Data Integration

FHWA Safety Program

U.S. Department of Transportation
Federal Highway Administration

Safe Roads for a Safer Future
Investment in roadway safety saves lives

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Want More Information?

https://safety.fhwa.dot.gov/rsdp/data_activities_state.aspx
Questions?

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