

Roadway Safety Data Partnership

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U.S. Department of Transportation
Federal Highway Administration

 **Safe Roads for a Safer Future**
Investment in roadway safety saves lives
<http://safety.fhwa.dot.gov>

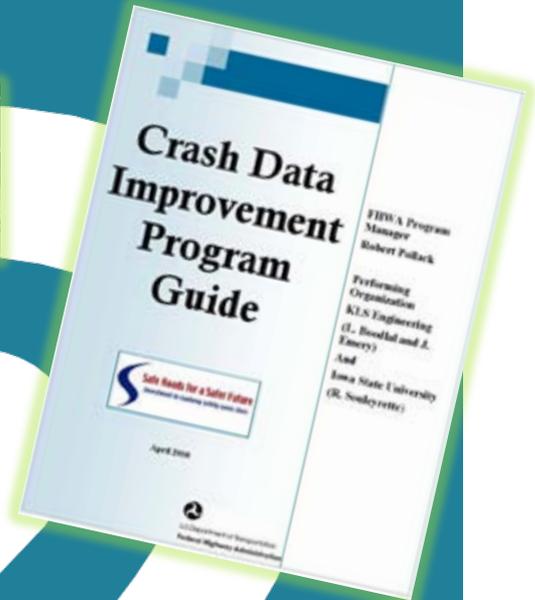
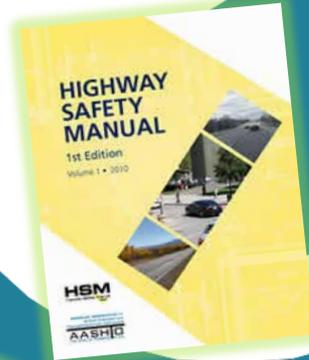
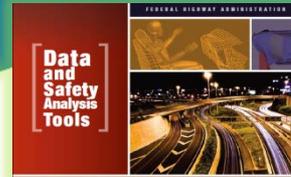
Our Commitment

FHWA is committed to addressing these issues:

- States have difficulty combining crash, roadway, traffic and other data for the **best analysis**.
 - States need assistance in improving the quality of their **Crash and Roadway Data**
 - States often don't know where to start in setting Goals/Plans for **Data Improvement**
 - We (and states) don't always know **what states need** in these areas
- 

FHWA Office of Safety Help

MIRE
MODEL INVENTORY OF ROADWAY ELEMENTS

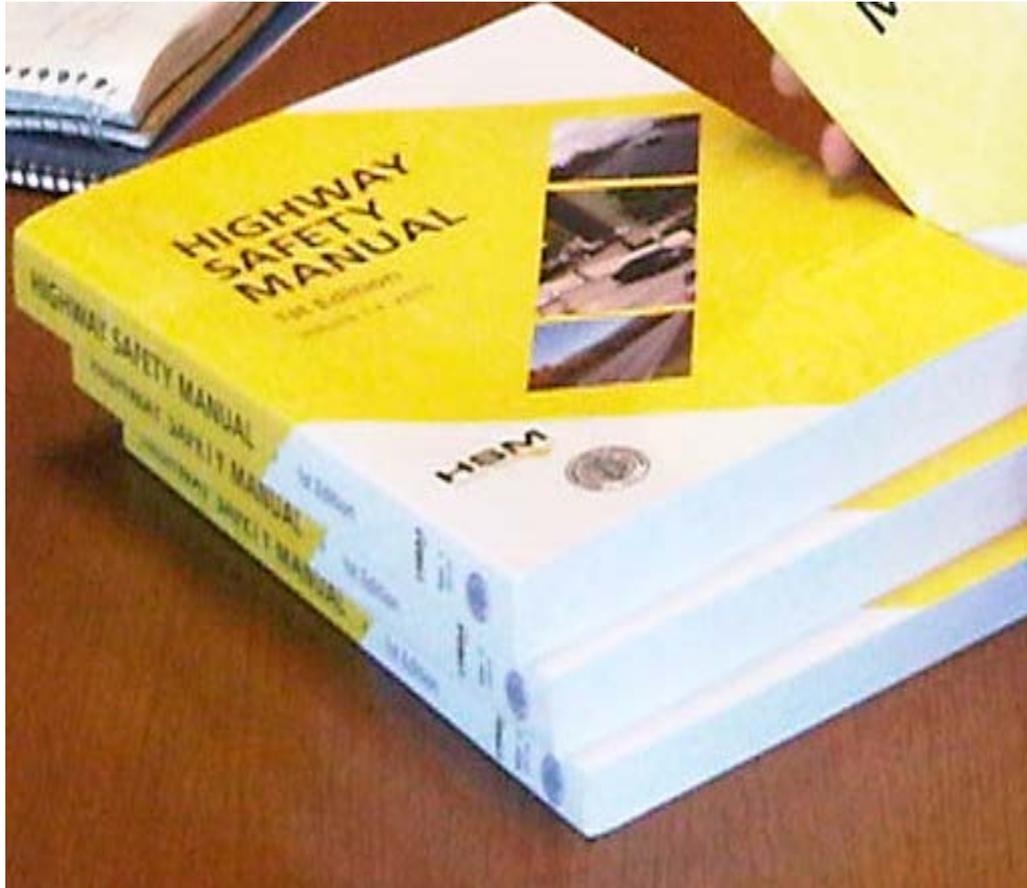


ROADWAY SAFETY

DATA PARTNERSHIP

COLLECTING • ANALYZING • MANAGING • EXPANDING

Highway Safety Manual (HSM)



Part A - Introduction, Human Factors, and Fundamentals

- Chapter 1 – Introduction and Overview
- Chapter 2 – Human Factors
- Chapter 3 - Fundamentals

Part B - Roadway Safety Management Process

- Chapter 4 – Network Screening
- Chapter 5 – Diagnosis
- Chapter 6 – Select Countermeasures
- Chapter 7 – Economic Appraisal
- Chapter 8 – Prioritize Projects
- Chapter 9 – Safety Effectiveness Evaluation

Part C - Predictive Method

- Chapter 10 – Rural Two-Lane Roads
- Chapter 11 – Rural Multilane Highways
- Chapter 12 – Urban and Suburban Arterials

Part D - Crash Modification Factors

- Chapter 13 – Roadway Segments
- Chapter 14 – Intersections
- Chapter 15 – Interchanges
- Chapter 16 – Special Facilities
- Chapter 17 – Road Networks

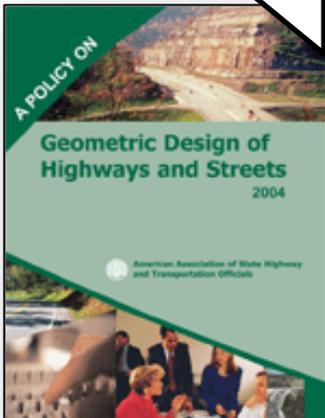
Nominal Safety

Substantive Safety

HSM
Highway Safety Manual
AASHTO

Examined in reference to compliance with standards, warrants, guidelines and design procedures

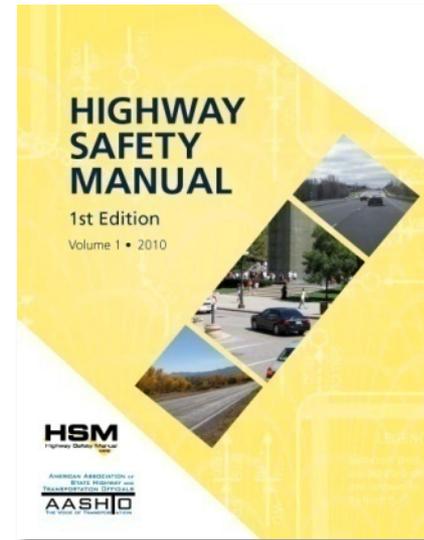
The expected or actual crash frequency and severity for a highway or roadway



HSM Implementation Support

Types of Support:

- Outreach
- Training
- Technical Assistance
- Guidance
- Coordination



Training and Guidance

- **Training**
 - HSM Practitioners workshop available at nhi.fhwa.dot.gov (Ongoing)
 - HSM Train-the-Trainer Workshop (Spring 2012)
 - HSM Web based informational course (Winter 2011)
- **Guidance (Fall 2011)**
 - **HSM Training Needs Guide**
 - **HSM Implementation Guide for Managers**
 - **HSM Application Guide**

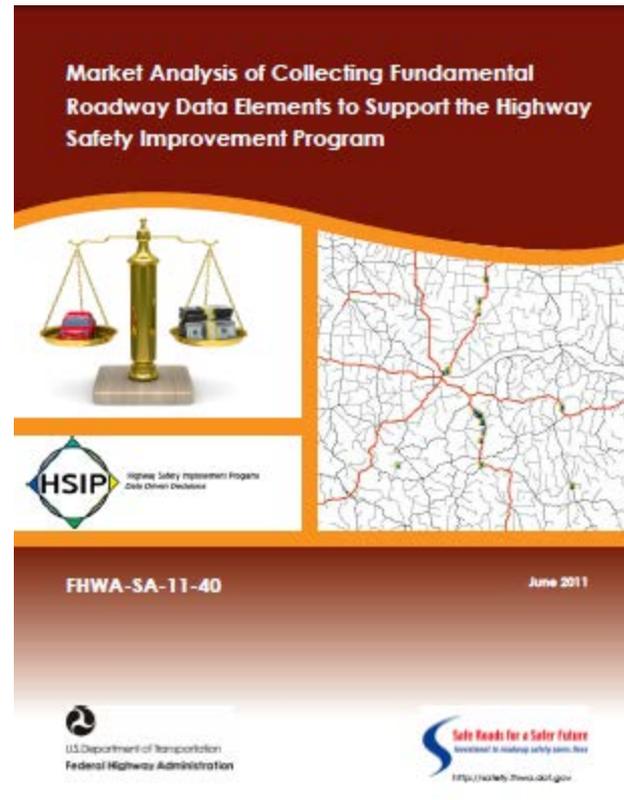
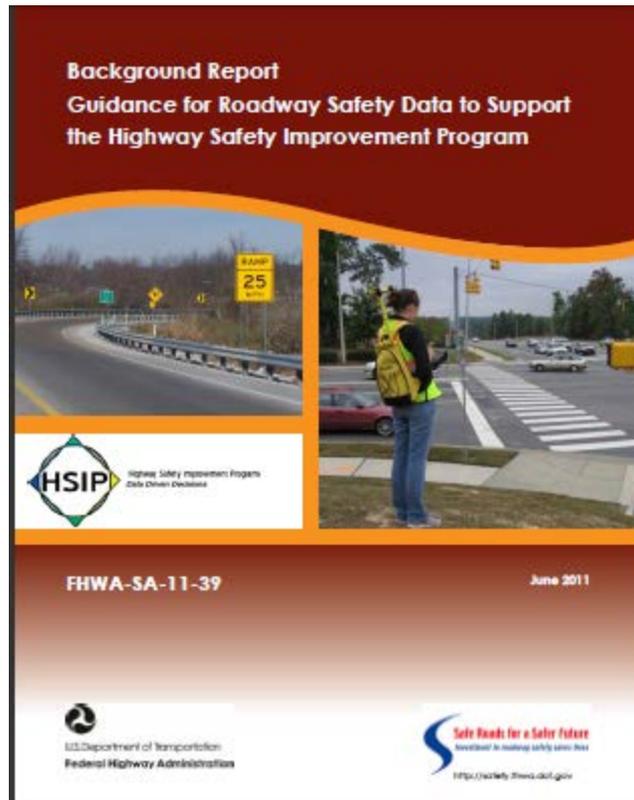
Current Products and Tools

- Model Inventory of Roadway Elements (MIRE)
- Fundamental Data Elements Guidance (FDE)
- MIRE Management Information System (MIRE MIS)
- Crash Data Improvement Program (CDIP)
- Roadway Data Improvement Program (RDIP)
- Cost Benefit for Data Investment
- Capability Assessment

MIRE

- First version published in 2010
- List of over 200 roadway data elements:
 - Definition
 - Attributes to describe
 - Priority rating (critical or value-added)
 - Part of analytic tool or HPMS
- Provides a consistent state of practice and standards for roadway data formatting

Fundamental Data Elements Guidance



Online at: http://safety.fhwa.dot.gov/tools/data_tools/dcag.cfm

MIRE-MIS

Companion effort to MIRE to develop adoptable model of data information system

Lead Agency Program (NH & WA)

Data Format Evaluation

Promote expansion of MIRE data elements being collected

Performance Measures of Characteristics

CDIP and RDIP

Technical Assistance Programs to assess State Crash/Roadway Data Processes and Systems

Recommendations for Data Improvement provided to the State in a Summary Matrix on the issues of data:

- Timeliness
- Accuracy
- Completeness
- Consistency
- Integration (linkages)
- Accessibility (sharing)

Cost Benefit of Data Investment

Planned to determine cost benefits for investing in Data Systems and Processes

Scaled Investment Benefit Methodologies

Assist decision-makers in weighting benefits of data investment against other investments

Capability Assessment

Develop State capability baselines Work with States to identify desired goal capability level

Assess national capability and identify national gaps
Determine opportunities for national leadership & programs, Develop a National action plan.

Work with States to develop State-specific action plan frameworks Identify available resources and peer exchange in 2012-2013.

http://safety.fhwa.dot.gov/rsdp

ROADWAY SAFETY DATA PARTNERSHIP
COLLECTING • ANALYZING • MANAGING • EXPANDING

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About the Partnership | FAQs | Have a Question?

In an effort to expand its relationship with the States, FHWA has initiated the Roadway Safety Data Partnership. Its purpose is to develop a better understanding of the current capabilities and conditions of safety data collection in all States and to help States improve those capabilities.

For more information, please contact:
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(202)366-2193

Click on a State below to see the current status for each State:
Or, select a state from the list:

Legend:
■ Assessments to be scheduled
■ Assessments scheduled
■ Assessments completed

Working with various national partners, FHWA aims to move the nation forward in safety data analysis and to create a national data capability baseline.

Using a consistent and systematic assessment process, the Partnership will provide each State with a customized assessment of their current roadway data capabilities. States will also receive guidance and technical assistance throughout the process in order to overcome gaps and integrate improvements into their overall safety plans.

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How can States get involved?

- Sign up for Capability Assessment to gauge your States level of data-driven capability
 - (where are we? what can we do with what we have now?)
- Take advantage of CDIP/RDIP Technical Assistance to evaluate your crash and roadway data collection program along critical dimensions
 - (how do we improve what we have?)

Summary

FHWA is committed to:

- Ensuring that States can combine crash, roadway, traffic and other data for the best analysis.
 - Helping States to Improve their Roadway Data
 - Helping States to Set Goals/Plans for Data Improvement
 - Listening to What States' Need in these Areas
- 

How to find more info

MIRE

MIREMIS

CDIP/RDIP

Capability Assessment

Cost Benefit of Data Investment

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Questions?