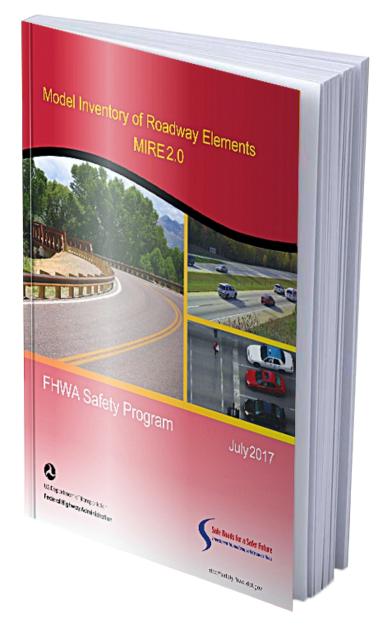


What is MIRE?

MIRE, the Model Inventory of Roadway Elements, is a recommended listing of roadway inventory and traffic elements critical to safety management. MIRE is intended as a guideline to help transportation agencies improve their roadway and traffic data inventories.



MIRE Advantages

- ✓Improve States' Highway Safety
 Improvement Programs (HSIP)
 by making more effective and
 efficient use of safety funds
 through enhanced project
 selection and prioritization
 methodologies.
- ✔ Provide additional data to help States in their development of their Strategic Highway Safety Plans (SHSP).
- ✓ Can be used statewide, regionally, and locally and Support performance measures
- ✓ Use new generation safety tools (Highway Safety Manual).

Meet Federal Mandates Regulatory Standards

- In 2016 federal rulemaking amended the HSIP
- Safety performance management (safety pm) was introduced for all public roads
- It required a subby 2026 (FDE)set of MIRE to be in place

Funding Sources Available for MIRE

- Federal HSIP Funds
- Federal Traffic Records Funds
- Federal State Planning & Research (Sp&R)
- Funds
- State Funds
- Regional And Local Funds

The vast experience of Semic Consulting on Road Data Collection and Road Safety Audits will make the difference on the quality and accuracy of the data.

MIRE Project Experience

"Systematic Safety Analysis Report Program, Stanislaus County, CA"

- 1,350 centerline miles of road asset data collection
- Model Inventory of Road Elements (MIRE)
- Pavement surface condition assessment
- LRS integration of inventories and assets condition



Data Collection Vehicle

A high-performance vehicle which performs a data collection survey while traveling at operational speed collecting not only images of the road but also the surrounding elements, their features and their location to comply with what is stated in MIRE manual. Thanks to state of the art technology onboard which consists of; panoramic cameras, a 360° camera, LiDAR, LCMS2 and Inertial GPS



Basic Equipment 1 Panoramic Camera Setup 2 Right or Left Side Camera 3 Rear Camera

4 GPS

Complementary Equipment

a) LCMS2 (Laser Crack Measurement System)

b) LiDAR
c) 360° Camera

Our experience at collecting inventory elements, developing software solutions, and coding road safety-related elements(iRAP) lead us to anticipate the development of a coding system of road elements for MIRE inventory projects, system which was tested in our last project in Stanislaus County



Based on final users' needs of Road Data and Inventories, we have developed a system in which we provide a virtual ride through panoramic and 360 imagery, and access to the final databases of the MIRE inventories according to the different group of elements.

These databases will allow managing inventory information in any GIS system.



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