



March 2009

### **MMIRE - Safety is Everyone's Business**

Roadway asset management tools and practices are used by state and local transportation agencies nationwide. The testing of road infrastructure assets and the application of the resulting assessment data increases the efficiency and cost effectiveness of managing these assets. This same data can also be put to use in the advancement of highway safety initiatives across the country. The Model Minimum Inventory of Roadway Elements (MMIRE), spearheaded by the US Federal Highway Administration (FHWA), is a proposed standardized system of inventory information for a wide range of roadway asset and traffic data.

MMIRE will facilitate the sharing of safety, road asset and traffic data across divisions within transportation departments (maintenance, design, pavements, safety, etc.), as well as with other agencies involved with road transportation management (law enforcement, motor vehicle administration agencies, fire personnel, etc.), through the standardization of descriptors and performance measurement of road transportation elements. These various stakeholders making use of a standardized system of identification of road assets, standardized measurement of accuracies of asset data and inventorying of the data, can work together to implement more effective road safety measures, thereby decreasing annual traffic fatalities, injuries and a jurisdiction's overall operating costs.



"Following an asset management approach, an agency can create a database that not only shows data on crashes occurring on a particular roadway but can also display data on the condition of the roadway, what type of guard rails are in place, the number of lanes, the condition of pavement markings, and other details. Sharing these data among different departments/divisions within the agency and other stakeholders allows transportation agencies to proactively evaluate the roadway condition and take steps to improve safety, instead of waiting until after crashes occur."<sup>1</sup>

### **ARAN Can Help**

MMIRE identifies a total of 180 elements in its working matrix. ARAN road data collection equipment can collect and identify many of the MMIRE elements:

- Roadway classification
- Paved surface characteristics (roughness, pavement condition)
- Number and type of travel lanes
- Shoulder, median, and roadside descriptors
- Curve and grade information
- Traffic control devices
- Intersection features

- Interchange and ramp descriptors
- Pedestrian and bicyclist facilities
- Bridges and rail grade crossings

ARAN can be used to collect data, perform measurements and generate an asset inventory to be used in the adoption of the MMIRE in your transportation jurisdiction. Your ARAN data can be used to promote safety initiatives to the benefit of all in your area.

The FHWA plans to release the final report and MMIRE Version 1.0 in the summer of 2010, and has been hosting webinars to obtain input from eventual end users of the system. The next webinar, on the topic of MMIRE Elements, is scheduled for April 7, 2009 at 1:00 p.m. Please go to [www.mmire.org/workshops](http://www.mmire.org/workshops) for more details.

We're here to help with your road asset management requirements. Give us a call at 800-828-2726, e-mail us at [info@roadware.com](mailto:info@roadware.com), or speak with us at the upcoming [GIS-T Symposium](#), or at [other conferences](#) we will be attending, to discuss your requirements in more detail.

Bonnie Collins  
Editor

1. Source: Highway Safety and Asset Management, FHWA, [www.fhwa.dot.gov/asset/assetmgmt\\_safety](http://www.fhwa.dot.gov/asset/assetmgmt_safety)

The graphic is a rectangular advertisement with a dark asphalt background on the left and an orange background on the right. The text is white and black. The main headline on the left reads: "Roadware is the world's leading provider of data collection equipment and services for the roadway management sector". On the right, under the heading "Products and services include:", there is a list: "Automated data collection and analysis services" with two sub-points: "for asset management applications" and "for pavement management applications", followed by "ARAN automated data collection equipment".

**Roadware is the world's leading provider of data collection equipment and services for the roadway management sector**

**Products and services include:**

- Automated data collection and analysis services
  - for asset management applications
  - for pavement management applications
- ARAN automated data collection equipment

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