

## 2.1.2

### FHWA's Public Road Geospatial Representation Study

#### Presenter

**Joseph Hausman**

Highway System Performance Coordination

Manager

US DOT/FHWA

joseph.hausman@dot.gov

#### Co-Presenter

On August 7, 2012, (<http://www.fhwa.dot.gov/policyinformation/hpms/arnold.pdf>) FHWA announced that the HPMS is expanding the requirement for State DOTs to submit their LRS from the Federal-aid system to include all public roads. In addition, State DOTs are to provide facilities that are divided highways or dual carriageway as independent features where applicable. This requirement will be referred to as the All Road Network of Linear Referenced Data (ARNOLD) based on existing requirements for bridge inspection reporting, safety analysis, project location tracking and certified public road mileage, it is expected that States have this information or are in the process of acquiring it. Many State DOTs will be challenged by the expanded requirement. Most State DOTs focus on facilities that are owned by the State while local entities manage their non-State highways. Working with local authorities and partnering with non-State DOT organizations will be an essential component to building a cohesive spatial network of highways in each State and eventually in the United States. This presentation will review the project and status of the project's objectives which is to develop a methodology for the States on how to geospatially represent all public roads in their State. This research includes both state-of-the-practice summaries that will inform decision makers on the best approach for a given State, as well technical requirements that ensure the resulting networks are consistent and meet necessary requirements of the HPMS.