

3.1.1

Mississippi DOT's Enterprise Linear Referencing System Vision

Presenter

Evan Wright

Planning Engineer

Mississippi DOT

ewright@mdot.ms.gov

Co-Presenter

Bruce Aquila

Sr. System Consultant

Intergraph Corporation

bruce.aquila@intergraph.com

Many of the roadway asset management systems used by DOT's today do not currently account for location stability or long term transaction management of the asset. These are some of the business factors that had an impact on MDOT vision for an Enterprise-wide linear referencing system. MDOT also needed an architecture and technology platform that would support bi-direction for the network, multiple linear referencing methods and multiple geometric representations of the network. For these and other reasons, MDOT selected Intergraph's COTS based MLRS for an Enterprise management solution. As a component of the MLRS solution, Intergraph solution provided to MDOT enterprise level LRS support which enables the roadway inventory and other disparate systems to utilize the location services offered by the LRS. A key benefit of an enterprise approach to the LRS is to establish a single source of truth which allows for location stability and long-term transaction management. This approach also advances MDOT's ability to satisfy MAP-21 and the FHWA ARNOLD requirements.

In this presentation, MDOT will discuss their approach and uses of the MLRS to support operational and reporting needs of the agency. MDOT will discuss their vision and approach to utilizing the LRS to provide a true "single source of truth" of the LRS roadway network.