

5.2.1

WSDOT Roads Geodatabase Data Model – Moving from Dual software environments to Support a Modern LRS System

Presenter

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The Washington Department of Transportation (WSDOT) is working on several issues to update their GIS. One includes moving roads and basemap data out of a CAD system and into a version geodatabase, while at the same time developing a more robust LRS system with stringent rules (segmentation, topology) to enhance its functional capabilities.

The process includes adding attributes to the county and local roads from the CAD system, joining them with the State Route GIS layer, integrating segmentation rules and a unique ID system to provide a comprehensive roads network. This will allow for integration with the Highway Performance Monitoring System (HMPS), as well as Functional Class and Freight and goods, which were not functional with WSDOT GIS roads network in the past.

It will also require the development of a county basemap series to replace a 7 ½ minute Quad map series, and the development of an automated process to pull the county basemap data layers from the geodatabase back into CAD to meet the needs of all our WSDOT users.

This new statewide GIS roads layer will also allow WSDOT to meet the data requirements to participate with the WA Transportation Framework Project. In this presentation we will present the Roads data model, segmentation rules, custom tools, and an update as to where we are at in the process.