

Session

3.1.2 Washington DOT Upgrading Basemap Data – The Path to GIS Maps, A Modern LRS and Local Roads Data

Presenter

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This presentation will be an update to the talk present at GIS-T 2006, titled “WSDOT Roads Geodatabase Data Model – Moving from ArcSDE environments to Support a Modern LRS”. The Washington Department of Transportation (WSDOT) is in the process of performing significant updates to their GIS base map data. This process has presented several challenges. The first challenge is identifying the best way to replace basemap information, which is currently stored and updated in CAD (7½ minute Quad map series) with a GIS County Map Series. As part of this first challenge, we are working to better manage this data in GIS and develop a process which will push data back into CAD from ArcSDE. The second challenge is to formalize a repeatable, disciplined process to support our Linear Referenced State Route data, which will be available in three scales. We need to understand the best way to manage and update the non-geometric information, and how to force the geometry to follow segmentation rules. The third challenge is to identify the best way to implement local roads data, in a GIS, so it can be used in conjunction with the Highway Performance Monitoring System (HMPS), as well as Functional Class and Freight and Goods. This presentation will touch on some of the solutions to these challenges, the tools we choose to use (Safe Software - FME, ESRI – PLTS), the data agreements we created with TeleAtlas, and where we are at in the process.