2.2.1 Washington DOT-Spatial growing pains in a dynamic Enterprise environment

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The Washington Department of Transportation (WSDOT) is in the process of performing significant updates many of their business processes. Because of the success of several grass roots efforts with GIS, “the enterprise” is now encouraging its use, yet struggling with how to best work with spatial information across the agency. There are several enterprise challenges WSDOT is facing. The first challenge is to integrate CAD and GIS data into a cohesive system to meet specific business needs. The second challenge is to formalize a repeatable, disciplined process to support our Linear Referenced State Route data, which will soon be enhanced with GPS based geometry. We need to understand the best way to manage and update the non-geometric information, how to take the geometry from a dual carriage way system to a single line representation, and how to force the geometry to follow segmentation rules. The third challenge is to incorporate and maintain the best possible local roads data layer in a GIS, so it can be used to meet reporting requirements with the Highway Performance Monitoring System (HPMS), as well as Functional Class and Freight and Goods. The final challenge is how to serve spatial data throughout the enterprise to staff that has little understanding of how to use GIS. This presentation will touch on some of the solutions to these challenges, such as data agreements we created with TeleAtlas, software tools being developed, and generally where we are at in the process.