

## 1.1.2

### Integration of WV DOT Road Data and Addressing Data

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The West Virginia Department of Transportation (WVDOT) has completed a project to create a linear referenced road network, using the West Virginia State Addressing and Mapping (WVSAM) unattributed centerline data. High-quality road centerline data is a foundation layer for many GIS-related projects. The same centerline base data was also used in a separate application for the WV Department of Homeland Security and Emergency Management to create a statewide, addressed street data. This addressed dataset consists of all roads in the state, including roads not owned by WV DOT. This data could provide WV DOT with expanded capabilities, such as routing, geocoding, direction and mapping applications. However, the two datasets currently exist in different locations, maintained separately and use different geometric formats.

The WV GIS Technical Center and the Rahall Transportation Institute have teamed up to solve some of the incompatibilities between the existing WV DOT road data and the WV SAM addressed data. The objective of the study is to review technical issues regarding the feasibility of road network integration in West Virginia which incorporates linear referencing, addressing, and routing capabilities. The projects goals of this study will identify and review existing transportation models, as well as WV DOT data needs; create an integrated road network pilot study; and identify requirements for data integration. We will present lessons learned and comments on the process of integrating datasets of this nature.