

5.4.1 Case Study - Ohio Franklin County Engineer's Snow Plow Routing Project

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In this presentation, we will discuss a case study of the tasks and procedures undertaken to successfully consolidate multi-source legacy street centerline data into an updated and accurate basemap for use in snowplow routing and tracking applications like an Automated Vehicle Locator (AVL) system. A reliable, successful AVL system is very much dependent on the underlying street centerline data that is geometrically and topologically correct, as well as other important location-based attributes.

We will also present various standards implemented as well as logistics and procedures developed to be Location Based Response System (LBRS) compliant. The cornerstone for the LBRS is a topologically accurate street or road centerline layer containing valid address ranges for every road segment. Without ready access to reliable geospatial data, local and state officials are compromised in their efforts to deliver emergency services and support to impacted areas. This case study exemplifies exactly how the above has been achieved and that the overall benefit of creating such data far exceeds the associated costs.