

## 5.2.2

### **Freight Analysis Framework, Version 3 - A Success Story of the State DOT's Continued Efforts and Advancement of LRS Integrated Geospatial Highway Network**

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The Freight Analysis Framework (FAF), version 3, sponsored by the U.S. Department of Transportation, Federal Highway Administration, integrates data from a variety of sources to create the only comprehensive national picture of freight movement among states and major metropolitan areas by all modes of transportation. This paper describes how state DOT initiatives to develop geospatial networks in recent years has significantly improved the quality of FAF3 products, specifically truck flows assigned to the highway network for 2007 and 2040. FAF3 geospatial network coverage represents more than 447,400 miles of the nation's highways comprised of Rural Arterials, Urban Principal Arterials, and all National Highway System (NHS) routes. Though, the baseline FAF network was developed using the National Highway Planning Network, the recent advancement of State DOT's efforts to develop a "good" GIS based network with improved LRS has significantly improved the quality of FAF3 highway assignments over previous efforts (FAF1 and FAF2). The resulting products from FAF3 include a national freight modeling geospatial network with integrated physical and operational attributes of state highways, with long-range freight forecasts to provide a performance outlook on the National Highway System.