Abstract

Increasing Transportation Safety by Using Geo-Spatial One Stop Data Models

Track: Federal Government Systems

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The Geospatial One-Stop, an E-Gov initiative, will overcome many issues (related to sharing GIS transportation data) through a collaborative effort to establish a comprehensive web portal to the National Spatial Data Infrastructure (NSDI) seven framework themes of geographic data. Through this effort, more accurate and accessible geospatial data will be available from local to national levels, and will allow users to more effectively address economic, social and environmental issues.

Integrating the NSDI framework themes into the Geospatial One-Stop will be accomplished through the development of a core data content standard for each theme. These content standards will be the core data needed for the exchange of information and will be a cooperative effort between Federal, state and local governments with the assistance of the private sector and academia.

Within the NSDI Transportation theme, the Bureau of Transportation Statistics (BTS) will be responsible for coordinating the development of its content standard. Transportation is also unique since different modes use different transportation networks. This will be reflected in the development of content standards, in that a separate standard will be developed for each mode (highways, railways, air, and transit). This paper is a case study of the airport modeling committee convened in the fall of 2002, and whose reference data exchange standard for airports will be published prior to the ESRI summer of 2003 exhibition and conference.

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