

3.4.1 Using GIS for Analyze Crash Data in the I-95 Corridor

Presenter

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The I-95 Corridor Coalition is an alliance of transportation agencies, toll authorities and related organizations operating in the I-95 corridor from Maine to Florida. The Coalition serves as a forum for transportation policy makers to address transportation management issues of common interest that transcend state borders. High priority issues include transportation investment, incident management, traveler information, intermodal passenger and freight competition, and safety.

To support multi-state analyses, the Coalition is developing an Integrated Corridor Analysis Tool, or ICAT. ICAT is a collection of transportation networks, and locationally referenced state and national data for the entire I-95 Coalition region. These data are managed using GIS technology, which supports spatial and network analyses, and serves as a platform for displaying analysis results, ranging from simple data queries to complex model outputs.

Several pilot applications are being developed to demonstrate the value of ICAT to address issues of importance to Coalition members. This presentation discusses an ongoing pilot application that uses ICAT to help analyze fatal crash data throughout the I-95 corridor. Specific analyses include identifying high incidence crash locations, identifying and locating crashes involving out-of-state drivers, and testing hypotheses such as the relationship between fatal crashes and distance traveled.