Increasing School Transportation Efficiency Using GIS and the Web

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ABSTRACT

The parents, teachers, administration, and students of Sioux City’s schools deserve prompt and reliable service. The safety of the students depends on the Transportation Department’s ability to organize all of the aspects involved in transporting students in varying situations. The goal of the Sioux City Transportation Department is to provide the safe, efficient, and reliable transport of the students to and from their school. With the integration of ArcView with the SmartR extension and a database with a web interface, this is possible. The Sioux City Schools in cooperation with the Dakota Valley Schools have developed a methodology to describe, collect, and analyze the data items needed to be tracked for a complete transportation management system. The benefits of using a combination of GIS and web interface will be presented.

Note: Contact the presenters above for more information on this topic.

Key words: ArcView—Lydia—SmartR—transportation