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Routing Oversized / Overweight Trucks using GIS Real Benefits

Presenter

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The State of Oklahoma processes over 250,000 Oversize/Overweight permit requests annually. Since the November, 2011 deployment of the new Automated Permitting and Routing System (OKiePROS), Oklahoma has seen record increase in not only the permits generated, but also in desperately needed funds for maintaining the state highways. Oklahoma has also experience significant drops in necessary man hours to issue these permits.

Historically, the state used a computer based program that semi-automated the permitting process, but required the permit agents to manually route each vehicle using a combination of several methods: paper based maps, google maps and printed reports. Due to data latency and accuracy issues, this method proved to be very risky and time consuming.

The Oklahoma State Legislature recognizes the benefits of using geospatial technology for managing timely road and bridge data which is needed to support operational decisions and routing. As a result, Oklahoma DOT and DPS worked together to deploy an automated system that not only allows the trucker to receive his permit electronically over the web, but is also able to automatically search for a safe route using GeoSpatial technology and data without the need of having to know a GIS program. The presentation will discuss the benefits and lessons learned of deploying an integrated automated permitting and routing system for Oversized and Overweight vehicles. We will provide an overview of the spatially enabled application and present the ROI experienced by the State Of Oklahoma after a full year of operation. Finally, we will discuss the data being used in support of the automated routing process and the Restriction Management Application currently deployed to ensure the required data is kept up-to-date.

Bio(s):

Mr. Brown has served in the Transportation Industry for over 24 years. He previously severed as the GIS Program Manager for the Mississippi Department of Transportation and as the AASHTO Region II representative on the GIS-T Task Force. Mr. Brown currently serves Intergraph Corporation as the U.S. Transportation Industry Manager.

In his current role, Mr. Brown is actively involved with many aspects of technology business development and ensuring Intergraph's technology is in alignment with current and future industry needs. He often monitors and participates in customer implementation projects to ensure customer requirements are being met.