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Leveraging GIS, GPS, and Telematics Technologies for Automatic Vehicle Location (AVL) and Enhanced Transportation Fixed and Mobile Asset Management

Presenter

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For agencies that manage the movement of vehicles, materials, equipment, and other assets, the ability to operate as efficient as possible while minimizing carbon emissions is becoming increasingly important. GIS, GPS, and telematics technologies can be leveraged to provide real-time and historic information on asset utilization, driver /asset performance exceptions (e.g., speeding, out-of-route, idling, crashes, etc.), and greenhouse gas emissions. Effective use of such technologies provides a variety of benefits including:

- * improved asset utilization
- * increased driver safety/security
- * reduced fuel costs and idle time
- * reduced carbon footprint
- * reduced loss due to theft
- * reduced risks by providing real-time visibility of asset and asset condition (e.g. temperature)

A "management by exception" approach ensures that only important/critical information is brought to the attention of managers and decision makers. In addition, asset and driver data can be archived to analyze past performance and identify areas of concern.

Background information on fixed and mobile asset management that leverages GIS, GPS and telematics will be provided. Tips on procuring and deploying such technologies will also be presented. The presentation will include a live demo of a typical tracking solution.