

## 2.1.1

### GIS in Transportation – Data Based Decision Making for Front Line Managers

#### Presenter

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This overview includes a “Geographic Information System’s” approach to daily maintenance activities for managers and frontline employees, which includes methodologies for data collection, assignment, locating, and repairing of highway deficiencies. The PowerPoint overview of data collection methodologies includes the utilization of handheld Magellan GPS units, including analysis, and practical application of maps (developed utilizing Intergraph GeoMedia and GeoMedia WebMap software) to assist in day-to-day decision-making for front line managers.

The use of GIS in daily workflows lends a powerful data analysis tool that is easy to understand. Topics of focus are measurable and set as part of each employee’s annual goals. User requirements are considered to ensure end-users can identify problem areas or areas of concern by utilizing a web based interface or hard copy “dashboard” maps. Associated results of work accomplishments can be published closing the gap between identifying and rectifying a given problem area as related to highway maintenance.