



GeoMedia Transportation Analyst

Departments of transportation, rail companies, waterway agencies, and pipeline operations need immediate access to project, asset, and event information along the transportation network if they are to analyze problems and create satisfactory solutions. GeoMedia® Transportation Analyst helps transportation professionals quickly and easily access and use their enterprise data with both linear referencing system (LRS) and routing analysis capabilities.

Analyze data – quickly and easily

GeoMedia Transportation Analyst enables transportation managers to perform a wide variety of useful analyses. The LRS allows a user to define a feature or location by its linear distance from a known point on a linear network. Dynamic segmentation is a powerful tool for analyzing tabular data referenced to linear features on a map. This tool allows the user to plot the positions of thousands of tabular records as points on a map with a single command.

Practical applications of GeoMedia Transportation Analyst can lead to immediate improvements in a transportation network. For example, rail transportation providers can highlight track segments that need priority maintenance. Or a county road division can use GeoMedia's dynamic pipe technology to see the combined results of two or more sets of data – often maintained by different divisions – to determine what condition the pavement is in and whether any pavement repair projects are scheduled for the near future.

Visualize your inventory of assets

GeoMedia Transportation Analyst increases the value of data by turning it into business-critical decision-support information. Planners can access data such as average daily traffic just by clicking on a map feature, or use aggregation to find an area with a high concentration of accidents. This kind of information will help plan and budget improvements, identify where an organization is spending its money, and provide crucial information clearly and accurately to all project participants.

GeoMedia Transportation Analyst removes query results from the traditional thick tabulated report and highlights them on a map, so the analyst doesn't have to pour over columns of data to determine what needs to be done and pinpoint the location. The main function of the linear referencing capability is to enable analysis and GIS displays of assets, incidents, and activities. GeoMedia Transportation

Analyst can handle a variety of LRS data structures, including measure, duration, marker offset, and coordinates. It also fully supports the GeoTrans transportation data model with its multiple linear referencing methods and event location stability.

Optimize mobile resources with routing analysis

Routing capabilities provide previously unavailable flexibility and efficiency in the use of mobile assets. Managers can optimize the value of vehicles and personnel in the field, plan contingencies for problems such as damaged pipelines, and find the most efficient route to a destination. Capabilities include finding the closest facility, analyzing coverage of emergency services for a portion of the network, directing the sequencing of stops, assigning costs to routing options, and restricting actions such as left turns.

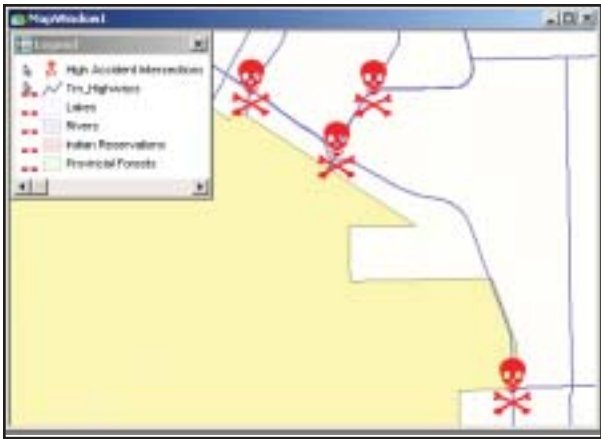
Using GeoMedia Transportation Analyst's routing capability, a planner can gain 20 percent efficiency over just guessing at the best route for service vehicles. For example, if a maintenance truck has 10 scheduled stops, the Best Path functionality will calculate both the optimal order and the most efficient path between the stops. Because of the dynamic nature of the routing capability, the route can be adjusted if one of the stops is canceled or if the road is unexpectedly blocked. Changes cause the results to be automatically recalculated. Other functionality enables a fire chief to display locations in a given jurisdiction that can be reached in 5, 10, or 15 minutes from the area's fire station. Thus, appropriate plans can be made to deal with emergencies.

Integrate data without translation

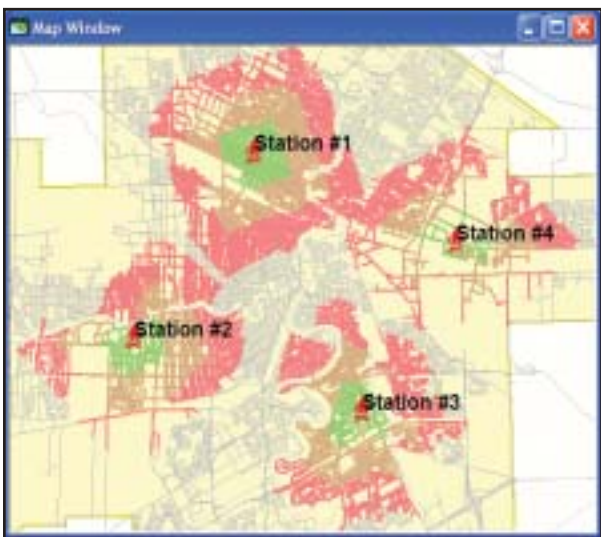
Transportation network and asset data can come from a variety of sources, in a variety of formats. GeoMedia technology enables you to bring data from disparate databases into a single GIS environment for viewing, analysis, and presentation. No translation of data is required. GeoMedia's data server technology supports open standards, providing direct access to business and project data from virtually any geographic data objects (GDO)-compliant data server within your enterprise. These include Oracle®, Microsoft® Access, Microsoft SQL Server, MGE, MGSM, IBM® DB2®, ArcInfo, ArcRoute, and ArcView.

Bridge the gap between technology and productivity

Intergraph Mapping and Geospatial Solutions helps you get the most from your investment by providing a comprehensive set of services for the open computing environment, including system



GeoMedia Transportation Analyst combines the results of dynamic segmentation and aggregation to find highway intersections with an unusually high occurrence of accidents.



The Network Coverage command enables an emergency response manager to view a map showing the range of coverage of the fire stations in a particular area. The areas noted around each station show two-, four-, and six-minute response times.

integration, consulting, project services, and implementation. GeoMedia Transportation Analyst is ready to use right out of the box; however, where customization is required, a documented public API to software capabilities facilitates open customization with industry-standard tools such as Microsoft Visual Basic®.

GeoMedia: Open from the start

As a founding and strategic member of the Open GIS Consortium (OGC™), Intergraph is a visible force in ongoing OGC initiatives for industry standards, and spearheads interoperability in the geospatial and IT marketplace. Intergraph Mapping and Geospatial Solutions is committed to open systems solutions and data interoperability.

The Intergraph Solution

With 35 years of technology innovation to its credit, Intergraph understands the business challenges customers face every day. Our unique combination of pioneering technology and comprehensive professional services makes Intergraph Mapping and Geospatial Solutions the leading provider of customized geospatial solutions for local, regional, and national government entities; transportation and mapping agencies; utilities and communications companies; commercial remote sensing and photogrammetry organizations; military and intelligence agencies; educational institutions; and more.

Why transportation industry leaders choose Intergraph

Road, rail, pipeline, and waterway agencies around the world depend on Intergraph for advanced geospatial transportation solutions. Benefits include:

- Improved planning and decision making
- Data sharing across the enterprise and around the world
- Quick access to data no matter where it resides or what format it takes
- The industry's best analysis and display capabilities
- An empowered mobile workforce
- Third-party partners to develop a complete industry solution
- Merger of geospatial data with information technology and business process improvement tools to create efficient workflows

For more information, visit our Web site at <http://imgis.intergraph.com>.

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