PRODUCTS

BRINGING IT TOGETHER.

GeoMedia
Transportation Analyst

Keep people and products moving

Organizations that support transportation of people and products – departments of transportation (DOTs), rail agencies, and others – must have immediate access to project, asset, and event information along the transportation network if they are to analyze problems and create satisfactory solutions. After all, their job is to keep people and products moving.

Analyze data – quickly and easily.

GeoMedia® Transportation Analyst helps transportation professionals quickly and easily analyze enterprise data using a linear referencing system (LRS) created and maintained with the GeoMedia Transportation Manager product. With the functionality included in GeoMedia and the capabilities for dynamic segmentation and linear referencing analysis, GeoMedia Transportation Analyst enables your organization to perform a wide variety of useful analyses. Dynamic segmentation is a powerful tool for analyzing tabular data referenced to linear features on a map. An LRS allows you to define a feature or location by its linear distance from a known point on a linear network.

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 might 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 whether a section of highway has a high accident count, 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 your data by turning it into business-critical decision-support information. You can access data such as average daily traffic just by clicking on a map feature. This kind of information will help you plan and budget improvements,

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identify where your organization is spending its money, and provide crucial information clearly and accurately to all participants in your projects.

Make analysis results easy to interpret
GeoMedia Transportation Analyst removes query results from the traditional thick tabulated report and highlights them on a map. 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 of GeoMedia Transportation Analyst is to enable you to support analyses 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 support for multiple linear referencing methods and event location stability.

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.
Providing a comprehensive set of services for the open computing environment, Intergraph Mapping and GIS Solutions helps you get the most from your investment. Intergraph's experienced staff and consultants deliver professional services that include system integration, consulting, project services, and implementation.

About 90 percent of the capabilities of GeoMedia Transportation Analyst are generic to all organizations in the transportation industry. The remaining 10 percent varies among organizations and may require a specific workflow for each organization. A documented, public API to software capabilities is provided to facilitate open customization with industry-standard tools such as Microsoft Visual Basic®.

GeoMedia: Open from the start
As a founding and principal member of the Open GIS Consortium (OGC), Intergraph is a visible force in ongoing OGC initiatives for industry standards, and spearheads interoperability in the GIS and IT marketplace. Intergraph Mapping and GIS Solutions is committed to open systems solutions and data interoperability.
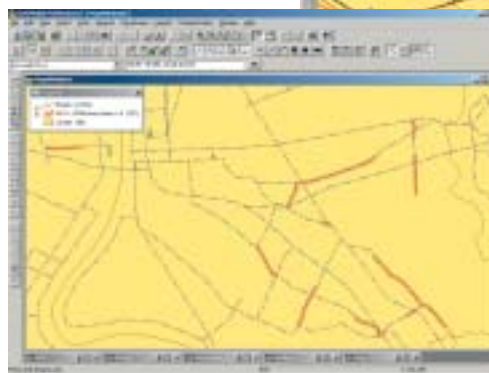
BRINGING IT TOGETHER.

Intergraph Mapping and GIS Solutions – an industry pioneer – has been a worldwide leader in the mapping, GIS, and cartographic marketplace for more than 30 years. "Bringing It Together" conveys our commitment to bringing together the right elements – products and services, open technology and data integration, partners and people – to help customers implement successful solutions. Our industry solutions support government agencies and commercial enterprises worldwide, including local, state, federal, and national governments; transportation agencies; mapping agencies; the military; civil aviation authorities; and educational institutions.

Intergraph Mapping and GIS Solutions brings together a full suite of solutions for transportation organizations. GeoMedia Transportation Manager enables the development, maintenance, and analysis of a transportation LRS data model. GeoMedia Transportation Analyst provides only analysis capabilities using the LRS data model. And Web applications built using GeoMedia WebMap Professional enable users to perform LRS analysis on the Web.

A thematic display of roadway functional classifications – principal artery, interstate, minor artery, and so forth – has been dynamically segmented onto the roadway network.

A state DOT can use event overlay in GeoMedia Transportation Analysis to show roads that have high traffic volume but few lanes. Planners can then determine which roads present congestion problems and create appropriate solutions.

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For more information, visit our Web site at www.intergraph.com/gis.

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