As transit organizations struggle to do more with less, effective planning is crucial. New transit technologies can produce internal data that are potentially valuable, and many types of external data, including maps, Census data and ADA zones, are also available. The challenge is managing these data to obtain relevant information.

Trapeze develops solutions that fulfill the needs of transit agencies to gather and analyze data in order to cut costs, improve service and automate the creation of reports and funding applications. These powerful, easy-to-use, GIS-based tools integrate with scheduling systems, third-party data and mobile technologies to help managers, planners and schedulers build better services.

Spatial analysis can be used to:

- Analyze demographic or transit data within a service area.
- Look at paratransit bookings along fixed route corridors for travel training purposes.
- Perform thematic mapping of population characteristics along planned routes.
- And much more!

**THE BUSINESS CASE**

**More Accurate Information About Your Routes and Ridership**
- Analyze ridership patterns using passenger data from automatic passenger counters (APCs) integrated with the back end system
- Record on-time performance and schedule adherence using real-time data from AVL systems
- Identify trends and test schedule modifications in minutes
- Create visual models with graphs and system maps

**Spatial Analysis at a Fraction of the Effort of a Geographical Information System (GIS)**
- Map relationships between transit data and demographic or other data—all within one integrated database
- Instantly analyze stops, routes, etc. against Census and other demographic data

**Better Planned Routes and Service Areas**
- Quickly determine which parts of the population are not being adequately served by transit
- Adjust headways and routes based on accurate ridership and schedule adherence data
- Forecast demand and plan the services your community will require in the future

**Advanced Reporting Capabilities**
- Create detailed reports with colorful maps and graphs
- Generate standard and ad hoc reports quickly and easily
- Automatically generate NTD reports based on data gathered from APCs, point checks and spot checks

**Quick Return on Investment**
- Identify ways to more efficiently deploy vehicles and staff
- Reduce the likelihood of costly errors with scenario modeling and trend analysis
Fixed Route Systems

**Ridership Analysis.** Analyze passenger data, identify key patterns and develop reports using sophisticated tools. Integrated map, schedule and ridership data from APCs, ride checks and point checks support decisions to add, delete and modify service.

**Schedule Adherence.** Track vehicle arrival and departure times, determine the efficiency of schedules, and graphically display results.

**Spatial Analysis.** Spatially analyze demographic data to obtain a better understanding of existing and future riders. Analyze geocoded transit data and locations for more accurate service planning.

**Demand Forecasting.** Analyze the effect of service changes, travel times and other factors on the propensity of specific groups to travel.

**ITS Integration.** Automatic, in-vehicle data collection technologies (e.g. AVL, automatic fare collection and APC) seamlessly connect with planning systems in the back office.

Demand Response Systems

**Travel Training.** Find the best candidates for fixed route travel training by comparing historical paratransit trip information to fixed route data.

**Flexible Routing.** Use historical paratransit data to help design more cost effective flexible routes.

**Schedule & Vehicle Optimization.** Develop ‘what if’ scenarios with user-defined geographical criteria, and develop more efficient routes and schedules.

Enterprise System Integration

Our planning systems integrate seamlessly with other components including:

- Fixed route scheduling
- Demand response scheduling and dispatch
- Operations management
- Customer information (incl. Web and IVR)
- Intelligent transit technologies (e.g. CAD/AVL, APC, on-board passenger information, etc.)

About Trapeze Group

Trapeze Group delivers solutions that consider the full 360 degrees of passenger transport. Whether addressing the needs of a single department, an entire organization, or the community, Trapeze provides some of the most advanced software, intelligent transportation systems (ITS) and mobile technologies in the industry. Hundreds of government and commercial organizations across Europe, North America and Asia Pacific have turned to Trapeze to realize efficiencies, enhance the quality and scope of their services, and safely transport more people with less cost. Visit www.trapezegroup.com.

Contact Info

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