

## SOLUTION GUIDE

A photograph of three people (two women and one man) standing on a train, looking out the window with interest. The woman in the foreground is holding a vertical pole. They are all wearing winter coats and scarves.

# Mobility Planning

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## Make data-driven decisions to plan mobility for a transformed world.

New mobility patterns and on-demand services will change the way you design your transit system. Having visibility into demographic and environmental factors affecting your network design helps you deliver essential service to your communities. To do this, you need dynamic tools that give you agility at your fingertips while keeping an eye on the costs of service changes.

Trapeze Mobility Planning leverages spatial and operational data, so you immediately know the impact of coverage and service changes as you plan routes or redesign your transit network. This unparalleled insight derived from multiple data sources enables you to arrive at the best decisions and effectively balance the many, competing requirements of delivering excellent transit service.

With improved planning capabilities, supported by an intuitive interface, user-centered workflows and a rider feedback loop, you are better equipped to deliver the transit network that gets your riders to where they want to go while laying the groundwork for Mobility-as-a-Service.

**87%**

of bus/rail trips benefit  
the economy

Ref: APTA

**45%**

of Americans have  
no access to public  
transportation

Ref: APTA



## AGENCY BENEFITS

Make network design faster, more efficient and always data-driven.



### **Increase Cost Savings**

Save time and resources by generating high-quality, streetable routes and schedules, using relevant data, precise route definition tools, and comprehensive costing. Try out multiple scenarios to see what works best to meet your agency goals, while keeping costs in check.



### **Make Better Planning Decisions**

Enable your planners and schedulers to seamlessly share data they can use to do their jobs optimally. Help planners make better decisions using spatial and operational data. Generate reports on ridership statistics for future route planning and for internal budgets.



### **Leverage Additional Data Sets to Evaluate Schedule Changes**

Utilize employment and spatial data to assess the costs and benefits of schedule changes. Improve network design to better serve the public and integrate all mobility options. Make evidence-based planning decisions you can justify to your stakeholders.



### **Get Your MaaS Planning Off the Ground**

Obtain insight into data that can impact tomorrow's mobility flows. Help create MaaS planning scenarios using data on how riders use or are impacted by transit. Provide insight into the cost of MaaS trips.

# PASSENGER BENEFITS

Connect your riders to communities that matter most to them.

## **Deliver Fast, Reliable, and Convenient Service**

Create routes in the right places and at the right times. Make service adjustments to reflect changing ridership demand. Plan routes that yield the most travel time savings for passengers, including reduced transfers. Attract new riders with new and improved network design.

## **Make Transit More Affordable**

Plan routes and network design in the most cost-efficient way possible to make transit affordable to all. Make transit an attractive alternative to driving with significant consumer savings compared to automotive costs.

## **Improve Transit Access**

Increase mobility by providing routes to where the public wants and needs to go. Expand their available mobility options and support their transportation choices. Improve access to communities, jobs, and education.

## **Mobility Planning and Scheduling For Sustainable Cities**

For almost 30 years, Trapeze has provided powerful routing, scheduling, blocking, runcutting, and rostering solutions to transit organizations of all sizes. Our automated software provides true flexibility, adapting easily to changes in service, work rules, and the IT environment. Native integration with other Trapeze solutions enables you to share scheduling data across departments, leading to better decision-making and optimized operations. Our solution is backed up by extensive client support and application hosting to deliver faster essential public service to your community.



# PRODUCT FEATURES

## Precise Route Definition

Integrate stops, nodes, patterns, and stop patterns seamlessly with spatial map data. Point and click to trace routes and patterns or to geo-code timing points and bus stops.

## Realistic Service Scenarios

Create as many route scenarios as planned or desired. Calculate detailed system coverage such as number of people within walking distance, operational cost, and paratransit impact.

## Comprehensive Costing Capabilities

Get instant cost estimates for routes, including number of buses and drivers. Accurately target costing capabilities within 10% of actual cost. Utilize user-defined costing function.

## FX Integration

Seamlessly share finalized version of route changes to Trapeze FX scheduling software.

## Demographic Analysis

Utilize demographic profiles to get better ridership estimates. Get automatically updated demographic data from the US Census. Create data models that unlock the value of demographic data to bring visibility to what's important.

## Ridership Analysis

Analyze data from current and past schedules and other sources (e.g., APC, electronic faring) to identify trips with the highest and lowest ridership and those with chronic schedule adherence problems. Automatically generate NTD reports that are ready for submission.



## Location Analysis

Use geographic and attribute data to determine the number of locations (e.g. stops) near routes and inside and outside of polygons (enclosed areas). Determine which stops in a certain neighborhood have amenities such as shelters. Locate schools within walking distance of a planned fixed route.

## Rider Engagement

Crowdsource planning scenarios for new ideas to help redesign entire transit networks. Solicit feedback from riders on incremental service changes. Allow riders to create scenarios and see the impact of each one using touchscreen UI/UX, simplified toolset, and safe data editing.

## EXTEND YOUR SCHEDULING AND PLANNING CAPABILITIES

**Empower transit planners and schedulers with next-generation tools:**



**FX (with Blockbuster)-Web** – Create your trip, vehicle, and driver schedules using a web-based platform with enhanced functionality and a modern user interface.



**Bus Stop Manager** – Automate geocoding of bus stop locations, recording and updating of amenity lists and attributes, and creating work orders for maintenance.



**Run Block Optimizer** – Get the most cost-effective schedule out by optimizing vehicle and operator schedules simultaneously.

**Reach out to our Mobility Planning experts for a demo.**



*Connect with our Experts*

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