



SIMULATION STUDY

Capital Metro Transportation Authority
Austin, TX

Overview

The Capital Metro Transportation Authority and Ecolane partnered to perform a simulation study of the Capital Metro Special Transportation Services (STS) for ADA customers in the Austin area. Capital Metro was exploring new and innovative ways to possibly schedule the STS service. Capital Metro was attracted to the innovative new approach that Ecolane provides where the Ecolane DRT Web-based system automatically schedules and reschedules trips to ensure that trips remain on-time thus ensuring great service for paratransit users. The system relies on advanced scheduling algorithms and mathematics to deliver amazing results.

Results Achieved

Ecolane entered in all of the scheduling characteristics of the current STS scheduling software to ensure a fair comparison. Ecolane then scheduled over 1700 trips and improved the Rides per Hour (RPH) from 1.93 (current scheduling system) to 2.69 RPH.

Ecolane DRT was able to schedule all of the trips onto the STS dedicated vehicles thus *eliminating* the need for subcontracted cab vehicles and the 350+ daily trips they provided.

STS STUDY SNAPSHOT

- Improved Rides per Hour from 1.93 to 2.69
- Reduction in daily revenue hours from 843 to 702
- Elimination of 350 trips sent daily to cabs
- **Estimated annual savings: \$3,799,600**

STS SERVICE SNAPSHOT

- Annual Trips – 432,202
- Annual Vehicle Hours – 223,546
- Annual Operating Expenses - \$23mm
- Average Trip Length – 6.8 miles
- Daily trips provided – 1700-2000

source: NTD Report 2005

A reduction in daily revenue hours from 843 revenue hours to 703 revenue hours was achieved.

A reduction in the required vehicles per day was achieved. Required vehicles dropped from 71 needed in the current scheduling software to 63 required by the Ecolane DRT scheduling technology.

The Ecolane DRT technology provides a new and innovative way to schedule paratransit, demand response, flex routes and on call service. Features and benefits include:

- Completely browser based
- **Significant Reduction** in scheduling personnel
- **Significant Reduction** in dispatching personnel
- Increased passenger / revenue hour
- Streamlined reservation process
- Continuous optimization and re-optimization
- End to end solution with MDT software and self service scheduling included
- Feeder to fixed route and rail possible

Ready for a change to save expenditures similar to those achieved in this study? Contact us: sales@ecolane.com or 712-764-9101

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