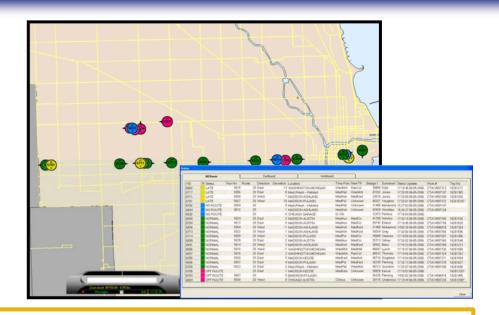
CTA Transit Operations & Technology Management Divisions

AVL - Bus Tracker Planning Update and Business Case February 14, 2007



AVL Planning Update Pilot Project Background





- Key System Components:
 - 1. Data Communication Methods
 - Cellular data communications
 - WiFi / Cellular / Digital Radio Switching (Mobile Access Router)
 - 2. Customer Information Application (Bus Tracker)
 - Website providing stop specific arrival predictions and a city map
 - Scrolling sign at one bus shelter displaying next two bus arrival times for that stop
 - 3. Control Center Software Application (CAD/AVL)
 - Displays real time bus location information, route incidents, and other reports

The CTA has a refined set of requirements for the customer information application as well as the data communication methods, while a transitional approach is recommended for CAD/AVL



AVL Planning Update Pilot Project Findings





Example of Customer Feedback

"I just wanted to let the CTA know how much I like the bus tracking system on Route 20. I ride the Route 20 bus between Michigan Ave and Peoria St ...I can now plan my return trip using the tracking system in the afternoon. I check the bus tracker online from my office and leave when the bus is approaching Peoria St. I now never have to stand in the rain, snow, or cold waiting for a bus. This is a great feature! Thanks."

-- Pamela G

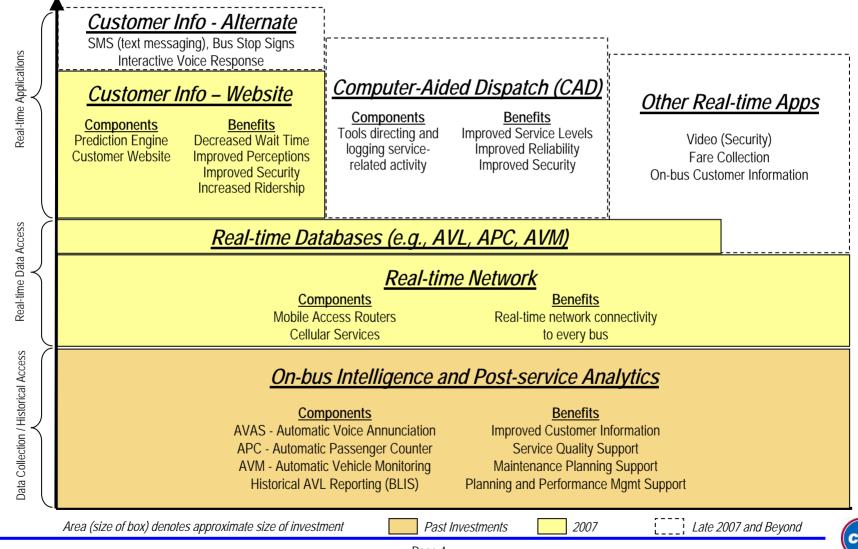
- Public use of website reached a steady state around 500 visits/weekday (~2.5% of #20 rides)
 - Variable message sign has been in continuous operation at the Madison & Jefferson stop
 - A slight increase in web traffic from November 2006 to December 2006 may be due to the colder weather.
- Insight into customer patterns of website usage
 - Users seem to prefer the predictions page
 - Most viewed stops: #1 Madison/Throop; #2 Madison/Laflin; #3 Madison/Peoria
- Positive results in post-release customer survey of the #20 route
 - Perceived wait time at the Madison-Jefferson stop fell by a statistically significant 3.5 minutes to an average of 9.5 minutes. Since research has shown that customers value waiting time twice as much as travel time, this reduction in perceived wait time should increase customer satisfaction
 - Bus Tracker also positively impacted the customer ratings of knowing next bus arrival, reliability, wait-time satisfaction, and willingness to recommend CTA service.



AVL Planning Update Leveraging Previous Investments & Future Opportunities

Capabilities

• Procurement of the customer web information, BusTime, will provide the communications to complete the on-board platform as well as increases the level of service to bus customers with real-time arrival information

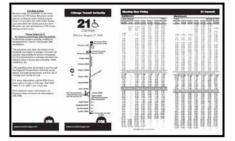


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AVL Planning Update Changing Customer Behavior

Without Bus Tracker

Schedule-Based Relationship



Prediction-Based Relationship

With Bus Tracker



Expectations will now be set by fundamentally different information -perceptions of CTA service will be measured against a different standard



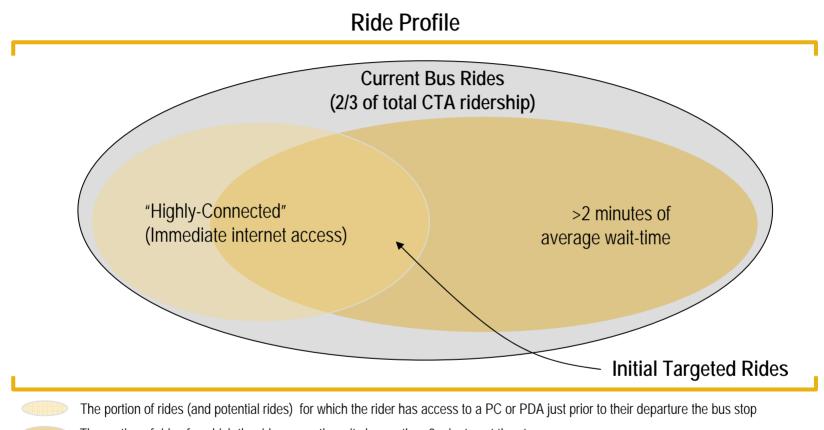
<u>Wait time at the bus stop is reduced</u>: Informed customers will not go to a bus stop until a bus is actually going to be there

Denominator for service reliability is changed: The static schedule was the best information available, now it will be a real-time prediction engine

<u>Frustration with service variability will be reduced</u>: Customers will spend less time waiting outside (inclement weather, safety, etc.), and not become agitated with CTA service if other routes run by a stop regularly



AVL Planning Update Initial Market Segment



The portion of rides for which the rider currently waits longer than 2 minutes at the stop

Our market segment for the Bus Tracker application is the set of highly connected riders that find themselves waiting longer than two minutes at a bus stop



AVL Planning Update Justification – Benefits Classification

Benefits to Customers

Benefits created by a real-time arrival prediction system experienced by customers.

- Shorter Actual Wait Times
- Shorter Perceived Wait Times
- Increased Information
- Higher Perceived Reliability
- Reduced Wait-Time Anxiety
- Net Societal Benefits of Increased Mass Transit Usage (public benefit)

Direct CTA Benefits

CTA may see some revenue enhancements from the deployment of a web-based realtime arrival prediction system.

- Improved Customer Satisfaction
- Increased Ridership
- Improved CTA Image

CTA will be providing the same real-time location information to the Control Center and street supervision for the improvement of service

Future CTA Benefits

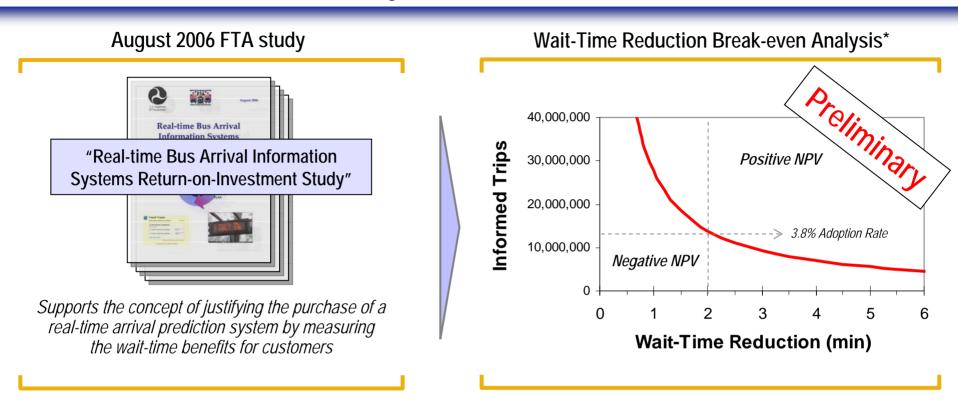
The entire real-time network investment has several benefits that are difficult to quantify and creates future options.

- CAD/AVL & Communications Platform
- Remote Video Surveillance
- Advanced Networking Capabilities
- Fare Collection Alternatives
- Potential Web-Based Advertising Revenue

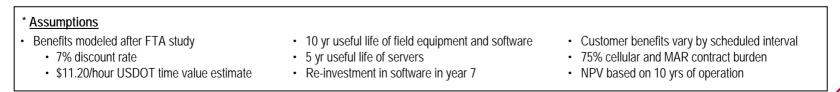
If we achieve a 3.8% adoption rate, the monetized customer benefit of reduced actual wait time will equal the CTA's investment in the entire system



AVL Planning Update Justification – Breakeven Analysis

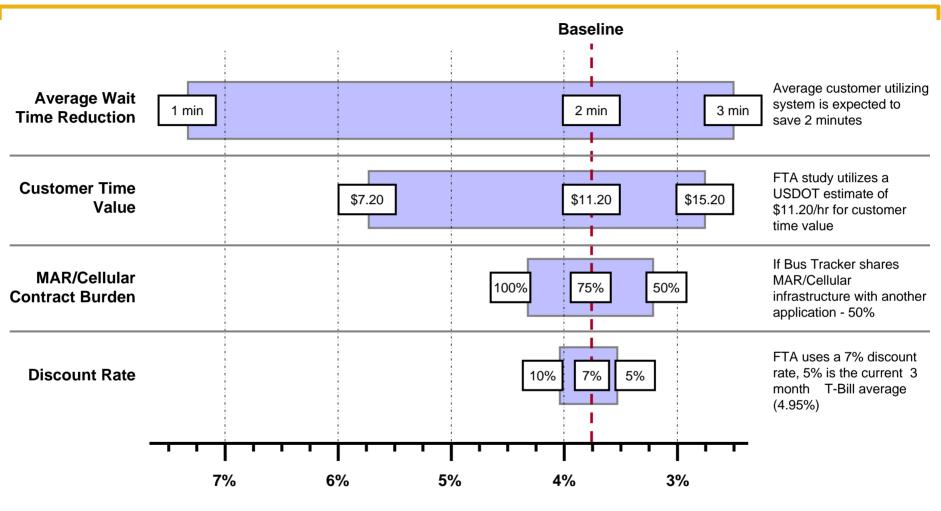


If we achieve a 3.8% adoption rate, the monetized customer benefit of reduced actual wait time will equal the CTA's investment in the entire system





AVL Planning Update Justification – Sensitivity Analysis



% of Required Informed Trips to Break Even



AVL Planning Update Customer Demand – Feedback from Pilot

