The Dallas Application of Responsible Transportation: How can public transportation systems work effectively for a city subject to urban sprawl? DART as a case study.

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THE DALLAS APPLICATION OF RESPONSIBLE TRANSPORTATION

How can public transportation work for a city subject to urban sprawl? DART as a case study.
OUTLINE

- The relevance of this study
- Dallas’ specific issue
- The History of the Issue
- DART’s Plan
- The Assumption of the Plan
- Verifying or Disproving the Assumption
- What we’ve done already
- Future Plans
EPA Says Dallas Air Rules May Get Tougher

-San Antonio Express News
“IF SKY-HIGH GAS PRICES SENT DALLAS RESIDENTS LOOKING FOR SEATS ON DART BUSES AND TRAINS THIS SUMMER, WILL FALLING PRICES SEND THE COMMUTERS BACK TO THEIR CARS?”

DALLAS MORNING NEWS
OCTOBER 24 2008
Build Something
Include Developers
Funding
Current and Future Services

DART’s 2030 Transit System Plan includes:

- 110 miles of light rail transit (DART Rail)
- 60 miles of express or commuter rail
- 116 miles of managed high occupancy vehicle (HOV) lanes
- 97 miles of enhanced and rapid bus corridors
- Mobility programs (Intelligent Transportation Systems, Travel Demand Management, Bicycle/Pedestrian Integration, Safety and Security, and System Accessibility)
But what about the users?
WHAT WE’VE DONE

- Chosen a Target Group
- Determined Dallas Business Locations
- Written and Began Survey Distribution
- Completed Real Time Run-Throughs
<table>
<thead>
<tr>
<th></th>
<th>Morning</th>
<th>Evening</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average Dart Trip</td>
<td>53 min 52 sec</td>
<td>54 min 6 sec</td>
</tr>
<tr>
<td>Average Car Trip</td>
<td>36 min 5 sec</td>
<td>48 min 33 sec</td>
</tr>
<tr>
<td>Difference</td>
<td>17 min 47 sec</td>
<td>5 min 33 sec</td>
</tr>
</tbody>
</table>
Morning Commute

- Additional wait for train to arrive: 1%
- Additional wait for time at station: 31%
- Addition due to trip time: 68%

Evening Commute

- Additional wait for train to arrive: 40%
- Additional wait for time at station: 25%
- Addition due to trip time: 35%
WHAT’S NEXT

- Compile and Analyze Survey Results
- Focus on another target group
- Propose solutions to attract more DART riders
- Analyze the impact of these solutions