Intermodal Connections with Light Rail in Phoenix, AZ

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12th National LRT Conference
Salt Lake City, UT
November 12, 2012
Outline

• METRO Light Rail Overview
• Future Expansion
• Airport Connection
• Transit Centers
• Bus Connections
• Streetcar Connection
• Bike Connection
• Park-and-Rides
• Walking
METRO Light Rail (20-Mile System)
Defining Success: Ridership

• Opened in December 2008
• Success is in the ridership
  – 50% above projections
  – 13.5 million riders in FY 2012
  – 42,000 average weekday riders
  – 50,000+ average weekday riders in September 2012
• Intermodal connections are key to success
## On-Board Survey (2011)

<table>
<thead>
<tr>
<th>Trip Purpose</th>
<th>Light Rail %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Home-Based College</td>
<td>34%</td>
</tr>
<tr>
<td>Home-Based Other</td>
<td>18%</td>
</tr>
<tr>
<td>Home-Based Work</td>
<td>17%</td>
</tr>
<tr>
<td>Non-Home Based</td>
<td>17%</td>
</tr>
<tr>
<td>Home-Based School</td>
<td>6%</td>
</tr>
<tr>
<td>Home-Based Shopping</td>
<td>6%</td>
</tr>
<tr>
<td>Home-Based Medical</td>
<td>1%</td>
</tr>
<tr>
<td>Home-Based Airport</td>
<td>1%</td>
</tr>
</tbody>
</table>
Future High Capacity Transit System

LEGEND
- METRO Light Rail Line
- Light Rail Extension
- Light Rail Extension (Unfunded)
- Streetcar
- Streetcar Extension (Unfunded)
- Future High Capacity / Light Rail Corridors for Further Study
- South Central Corridor

Note: Dates indicate calendar year openings
Airport Connection

• 1,200 people/day are taking METRO to the airport
• From 44th/Washington, free shuttle that stops at all terminals
• Runs seven days a week & mirrors light rail schedule
• PHX Sky Train Phase I opening in early 2013
Airport Connection
Role of Regional Transit Centers

• Six transit centers connect bus to rail
• Connect light rail with other modes
• Provide passengers with seamless connections
• Interagency coordination to ensure bus and light rail compliment each other’s service.
Central Station

• Major downtown Phoenix transit center
• Major transfer point between bus and light rail
• Direct access to
  – Major employment destinations
  – Arizona State University
  – Special event venues
  – Arts and culture
  – Recreation
Tempe Transportation Center

- Major downtown Tempe and Arizona State University transit center
- Transfer point between bus, light rail and neighborhood circulators
- Major access point for students, faculty, staff and visitors
- Integrated bike facility
  - Bike storage, rentals, repairs
  - Showers and lockers
- LEED certified
Fare Structure

- Fully integrated regional fare system
- Transit passes can be used on bus and/or rail

<table>
<thead>
<tr>
<th>Light rail/local bus/LINK</th>
<th>Full Fare</th>
<th>Reduced Fare* Seniors 65 and over, Youth ages 6-18, Disabled</th>
<th>Express/RAPID bus</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Light rail only</strong></td>
<td>$1.75</td>
<td>$0.85</td>
<td>$5.50</td>
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<tr>
<td>All-day</td>
<td>$3.50</td>
<td>$1.75</td>
<td></td>
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<tr>
<td>3-day</td>
<td>$10.50</td>
<td>$5.25</td>
<td></td>
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<tr>
<td>7-day</td>
<td>$17.50</td>
<td>$8.75</td>
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<tr>
<td>31-day</td>
<td>$56.00</td>
<td>$27.50</td>
<td>$85.00</td>
</tr>
</tbody>
</table>

*Reduced fare is based on certain discounts for特定 groups.
Bus Connections

• 45% of local bus routes have transfer points to light rail
  – Bus access is 20% of all light rail riders
• 15 – 30 minute headways
• Increasing frequencies increase ridership for both bus and light rail
LINK Connections

- Two LINK connections in operation
- Specialized branding
- Custom designed vehicles
- Limited stop service
- Traffic signal priority
Streetcar Connection

- 2.6-mile route
- 13 stops
- Connects:
  - Downtown Tempe / ASU (N)
  - Residential areas (S)
- Future extensions on north and south ends
Bike Connection

- Bicycle users make up 8% of all light rail riders
- Bicycles are always allowed on light rail
- 536 bike racks and lockers at light rail stations
Park-and-Rides

• An intermodal connection that works effectively in areas that are highly auto-dependent
• METRO has nine park-and-ride locations, 3,600 spaces
• Auto access is 20% of all light rail riders
Walking

- 60% of light rail passengers access light rail by walking
- Integrating safety improvements for pedestrian access to light rail
- Cities are taking steps to improve pedestrian amenities including wider sidewalks and more shade
Conclusions

• METRO light rail has exceeded projections
• Introduction of light rail had a positive effect on the ridership of the total transit network
• Pedestrian amenities and bike-transit integration allow riders to embrace ‘active transportation’
• Pairing light rail with bus provides regional connections
• Bike parking and park-and-rides give METRO riders more access choices
Looking Ahead

• Expansion of light rail system
• New options for multi-modal connections
• 2013, METRO light rail access to Phoenix Sky Train
• 2016, modern streetcar service in Tempe
• Working to enhance transit supportive land use and pedestrian connections
Q&A

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