Transit budget and System overview
Phoenix Metropolitan Public Transportation System

- Multimodal Transportation Network
  - Light Rail Transit
  - Local Bus
  - Express Bus
  - RAPID Bus
  - Neighborhood Circulators
  - Street Transportation Improvements
    - Bus pull outs
    - Bike lanes
    - New roads
    - Utilities
Transit in the Valley

- City of Phoenix
  - Fund and operate Phoenix and regional transit services
  - Federal Transit Administration Regional Designee

- Valley Metro
  - Regional Public Transportation Authority
    - Fund and operate regional transit services
  - Valley Metro Rail
    - Plan, build and operate a regional rail system
Phoenix Metro Area
Transit Funding Initiatives

- 1996 - Tempe Sales Tax
- 1998 - Mesa Quality of Life Tax
- **2000 - Phoenix Sales Tax**
- 2001 - Glendale Sales Tax
- **2004 - Regional Sales Tax (PTF)**
  - 0.4 cent for 20 years
  - 2/3 for highways & 1/3 for transit
Phoenix Public Transit Operations Funding

- Phoenix Transit 2000 Sales Tax
- Transit Fares
- Advertising
- Phoenix General Fund
- Maricopa County Transportation Excise Tax (Public Transportation Fund – PTF)
- State of Arizona Lottery Funds
- Federal Transit Administration (FTA)
- Other Cities Purchased Transit Service
Phoenix Public Transit Operations Funding

Fiscal Year 2014-15

- T2000 Sales Tax: 53.6%
- Fares: 17.5%
- Purchased Transit Service: 4.2%
- Other: 1.6%
- Lottery Funds: 1.7%
- General Fund: 7.2%
- Advertising: 1.5%
- FTA: 6.7%
- PTF: 6.0%

Total Operations budget, including debt service - $253 million
2013-14 Fare Revenues

(1) ASU UPass, Semester Pass, and Platinum Pass schools only, does not include students using paper passes.

(2) Agencies provide passes to clients.
Phoenix Public Transit Capital Funding

- Phoenix Transit 2000 Sales Tax
- Maricopa County Transportation Excise Tax (Prop 400 or Public Transportation Fund – PTF)
- Federal Transit Administration (FTA)
Phoenix Public Transit Capital Funding

Fiscal Year 2014-15

Total capital budget - $123.6 million
# Phoenix Public Transit Operations Budget

## Fiscal Year 2014-15

<table>
<thead>
<tr>
<th>Service</th>
<th>Budget (in millions)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Local Fixed Route Bus</td>
<td>$129.1</td>
</tr>
<tr>
<td>RAPID Bus</td>
<td>$5.2</td>
</tr>
<tr>
<td>Neighborhood Circulator</td>
<td>$3.1</td>
</tr>
<tr>
<td>Light Rail</td>
<td>$27.7</td>
</tr>
<tr>
<td>DAR &amp; Alternative Transportation</td>
<td>$19.9</td>
</tr>
<tr>
<td>Support Services</td>
<td>$20.4</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$205.4</strong></td>
</tr>
</tbody>
</table>
Phoenix Public Transit Operations Budget

Fiscal Year 2014-15

- Local Fixed Route Bus: 62.9%
- Light Rail: 13.5%
- Support Services: 9.9%
- DAR and Alternative Transportation: 9.7%
- Neighborhood Circulator: 1.5%
- RAPID Bus: 2.5%
Phoenix Public Transit Capital Budget
(millions)

- **Fiscal Year 2014-15**

<table>
<thead>
<tr>
<th>Category</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bus and Vehicle Acquisition</td>
<td>$47.4</td>
</tr>
<tr>
<td>Passenger Facilities</td>
<td>$14.7</td>
</tr>
<tr>
<td>Maintenance Facilities</td>
<td>$22.3</td>
</tr>
<tr>
<td>Technology</td>
<td>$20.3</td>
</tr>
<tr>
<td>Light Rail</td>
<td>$13.7</td>
</tr>
<tr>
<td>Other Transportation Improvements</td>
<td>$1.3</td>
</tr>
<tr>
<td>Other</td>
<td>$3.9</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$123.6</strong></td>
</tr>
</tbody>
</table>
Phoenix Public Transit Capital Budget

Fiscal Year 2014-15

Bus and Vehicle Acquisition 38.3%

Passenger Facilities 11.9%

Maintenance Facilities 18.1%

Light Rail 11.1%

Technology 16.4%

Other Transportation Improvements 1.1%

Other 3.2%

Other Transportation Improvements 1.1%

Other 3.2%
Transit 2000 Total Operating and Capital 20-Year Forecast (millions)

- Local Fixed Route Bus: $1,953
- RAPID Bus: $137
- Neighborhood Circulator: $59
- Light Rail: $1,339
- DAR & Alternative Transportation: $339
- Other Transportation Improvements: $21
- Support Services: $250
- Total: $4,098
Transit 2000 20-Year Forecast

Total Operating and Capital Costs

- Local Fixed Route Bus: 48%
- Light Rail: 33%
- DAR and Alternative Transportation: 8%
- Other Transportation Improvements: 1%
- Support Services: 6%
- RAPID Bus: 3%
- Neighborhood Circulator: 1%
- Other Transportation Improvements: 1%
- Support Services: 6%
- DAR and Alternative Transportation: 8%
- Light Rail: 33%
- Local Fixed Route Bus: 48%
Bus/Paratransit Services and Facilities

Fixed Route
- 35 Local routes
- 5 RAPID routes
- 3 Neighborhood Circulator routes
- 2 Business Circulator routes

Paratransit Service
- Dial-A-Ride and Alternative Programs

Fleets and Fuels
- 488 heavy duty buses
- 125 Dial-a-Ride buses
- Natural Gas – 5.8M/gal. @ $6M
- Diesel – 2.4M/gal. @ $7.8M
- Unleaded – 747K/gal. @ $2.4M

Bus Stops
- 3,955 bus stops in Phoenix
  - 2,510 have passenger shelters
  - 1,500 standard shelters
  - 1,010 advertising shelters

Facilities
- 3 Operating Garages
- 8 Park and Rides
- 6 Transit Centers

Private Sector Jobs
- MV Transportation - 243
- First Transit - 368
- Transdev - 848
Ridership and Focus Areas

- Phoenix buses carry 50% of the region’s riders on 11 of its routes
- Phoenix routes are in the top 10 for highest ridership in the region
- We are working to address overcrowding on high ridership routes and frequency

<table>
<thead>
<tr>
<th>Rank</th>
<th>Route</th>
<th>FY12/13 Ridership</th>
<th>Route Length</th>
<th>Boardings per Mile</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>29 - Thomas</td>
<td>3,003,585</td>
<td>21.7</td>
<td>138,414</td>
</tr>
<tr>
<td>2</td>
<td>41 - Indian School</td>
<td>2,894,463</td>
<td>26.5</td>
<td>109,225</td>
</tr>
<tr>
<td>3</td>
<td>19 - 19th Avenue</td>
<td>2,387,927</td>
<td>26.9</td>
<td>88,771</td>
</tr>
<tr>
<td>4</td>
<td>70 - 24th Street</td>
<td>2,131,244</td>
<td>34.2</td>
<td>62,317</td>
</tr>
<tr>
<td>5</td>
<td>17 - McDowell</td>
<td>2,112,098</td>
<td>20.8</td>
<td>101,543</td>
</tr>
<tr>
<td>6</td>
<td>35 - 35th Avenue</td>
<td>2,035,933</td>
<td>28.0</td>
<td>72,712</td>
</tr>
<tr>
<td>7</td>
<td>61 - Southern</td>
<td>2,032,774</td>
<td>27.8</td>
<td>73,121</td>
</tr>
<tr>
<td>8</td>
<td>50 - Camelback</td>
<td>1,922,411</td>
<td>24.9</td>
<td>77,205</td>
</tr>
<tr>
<td>9</td>
<td>3 - Van Buren</td>
<td>1,648,096</td>
<td>25.2</td>
<td>65,401</td>
</tr>
<tr>
<td>10</td>
<td>0 - Central Avenue</td>
<td>1,605,441</td>
<td>14.5</td>
<td>110,720</td>
</tr>
</tbody>
</table>
Phoenix and Regional Service Miles

![Graph showing miles for different fiscal years (FY09/10 to FY13/14)]
Phoenix and Regional Service Boardings
# Dial-a-Ride and Alternative Transportation

<table>
<thead>
<tr>
<th>FY13/14 Service</th>
<th>Passenger Boardings</th>
<th>Trips</th>
<th>Miles</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phoenix Dial-a-Ride</td>
<td>347,330</td>
<td>328,170</td>
<td>4,395,878</td>
</tr>
<tr>
<td>Dialysis Taxi Subsidy</td>
<td>19,277</td>
<td>19,277</td>
<td>102,548</td>
</tr>
<tr>
<td>Employment Taxi Subsidy</td>
<td>4,069</td>
<td>4,069</td>
<td>22,965</td>
</tr>
<tr>
<td>Senior Cab</td>
<td>26,806</td>
<td>26,806</td>
<td>31,760</td>
</tr>
<tr>
<td>ADA Cab</td>
<td>7,155</td>
<td>7,155</td>
<td>297,023</td>
</tr>
<tr>
<td>Senior Center Shuttle</td>
<td>104,878</td>
<td>98,721</td>
<td>371,176</td>
</tr>
<tr>
<td>Senior Center Group Trips</td>
<td>13,816</td>
<td>679 *</td>
<td>27,314</td>
</tr>
</tbody>
</table>

* Round Trips
Rail Overview

- Regional cooperation
- Funding initiatives
- Light rail system summary
- Phoenix future high capacity transit corridors and transit types
- Light rail challenges
- Transit Oriented Development
Passenger Capacity by Transit Mode

- **200** passengers in one light rail vehicle
- **600** passengers in one light rail train
- **200** passengers in five buses
- **200** passengers in 180 autos
Light Rail Transit

- 2014 – 20 mile system (28 stations)
- 2016 – 26 mile system (35 stations)
Light Rail Transit

- 15 million annual boardings
  - 45,000 weekday daily boardings
  - 66,000 highest ridership day
  - Over one million riders per month
  - 50% above projections
  - 8,000 additional boardings anticipated with new extensions

- 50 vehicle fleet

- 10,000 passengers can be carried at one time

- 12 - 20 minute headways

- 2.4 million revenue miles of service (annual)

- $7 billion in economic development
  - Within a ¼ mile of the system
Light Rail Statistics  
per 2011 survey

- 77% used transit more often than two years ago
- 68% walked to a METRO station
  - 16% drive
  - 16% transfer from a bus
- 65% of those surveyed had at least 1 car available for their trip
20-Mile LRT Project Capital Budget (April, 2008)

Total Cost - $1.41 billion
20-Mile LRT Project
Sources of Funding (Capital)

- Federal, 45.8%
- Regional, 14.1%
- Local, 40.1%
Light Rail Funding Sources (Operating) Phoenix

- **Operations**
  - Phoenix local transit tax – T2000
  - Cost Recovery 40-45%
    - Fares
    - Advertising
Future Phoenix Corridors in RTP
36 additional miles (yellow highlight)
### Types of High Capacity Transit

<table>
<thead>
<tr>
<th></th>
<th>Light Rail</th>
<th>Bus Rapid Transit</th>
<th>Streetcar</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Speed</strong></td>
<td>Higher</td>
<td>Higher</td>
<td>Moderate</td>
</tr>
<tr>
<td><strong>Traffic Lanes</strong></td>
<td>Dedicated</td>
<td>Dedicated or shared</td>
<td>Shared</td>
</tr>
<tr>
<td><strong>Cost to Build</strong></td>
<td>$80 - $130 million per mile</td>
<td>$40 - $70 million per mile</td>
<td>$40 – $60 million per mile</td>
</tr>
<tr>
<td><strong>Capacity</strong></td>
<td>200 per car (connect up to 3 cars)</td>
<td>90 per bus</td>
<td>160 per car</td>
</tr>
</tbody>
</table>

Source: Valley Metro; August, 2012
Challenges of LRT Implementation

- Appropriate land use / economic development
- Auto traffic impacts
- Property impacts
- Lack of flexibility to change
- Long construction duration
  - Utility relocations a major part
- High capital cost
Developments: Residential

Grigio Metro
Tempe

Tapestry on Central
Phoenix

Campus Suites
Tempe
Developments: Large Mixed Use

CityScape
Phoenix

Hayden Ferry Lakeside
Tempe
Developments: Public Investment

Phoenix Convention Center

ASU Downtown Campus

Civic Space Park
Support Services

Procurement/Contracts
- Compliance with Federal, State, local requirements
- Buses and Dial-A-Ride vehicles

Technology Services
- 200 regional customers
- 146 workstations
- 10 regional partners
- 1,000 vehicles on network

Transit Enforcement Unit (TEU)
- Conduct daily targeted enforcement at bus and rail locations based on crime suppression data
- Station security guards at all transit facilities/park and rides
- Provide presence at rail platforms/ride bus routes
- August 2014: arrests 160, citations 419, calls for service 1,434
- 1 Commander, 2 Lieutenants, 4 Operational Sergeants, 2 Administrative Sergeants, 16 Sworn Police Officers, 24 Police Assistants, 33 Municipal Security Guards
Support Services

Transit Centers/Revenue Room
- 4 staffed transit centers
- 800+ retail locations
- 1,000 orders monthly
- Lost & Found
- 3,000 calls monthly

Transit Oversight (Federal Compliance)
- Federal Compliance is everything
- Without oversight (compliance), expect oversights (non-compliance)
- Consistent non-compliance leads to inconsistent Federal funding
- Regional leader: 10 FTA subrecipients