Valley Metro Rail, Inc.  
(dba METRO)

- Formed in October 2002
- Purpose
  - Plan, design, construct and operate the METRO light rail system, including future extensions
- Members
  - Representatives from five participating cities:
    - Phoenix
    - Tempe
    - Mesa
    - Glendale
    - Chandler
    - Peoria
  - Additional members possible
Regional Transit Agencies

- Maricopa Association of Governments (MAG)
  - Develops the Regional Transportation Plan
  - Travel demand forecasting
- Regional Public Transportation Authority (Valley Metro RPTA)
  - Operates regional bus service
  - Sub-regional planning and project development for bus services
- Valley Metro Rail (METRO)
  - Operates light rail system
  - Light rail/high capacity transit sub-regional planning and project development
Transit Election History

1989: ValTrans – Regional
1994: Proposition 300 – Regional
1996: Proposition 200 – Tempe
1997: Proposition 1 – Phoenix
1997: Proposition 1 – Scottsdale
1998: Question #1 – Chandler
1998: Quality of Life Tax – Mesa
2000: Proposition 2000 – Phoenix
2001: Proposition 402 - Glendale
2004: Proposition 400 – Regional
Funding Overview

- **20-mile starter line** $1.4 billion
  - FTA New Starts grant $587 million
  - Phoenix, Tempe & Mesa $566 million
  - Proposition 400 $199 million
  - CMAQ federal grant $59 million

- **FY10 rail operations** $33.7 million
  - Fare revenue $9 million
  - Phoenix $16 million
  - Tempe $7.3 million
  - Mesa $1.4 million
Why Light Rail?

- Maricopa County gains 1 million new people per decade.
- Infrastructure has not kept pace with growth.
- The Phoenix metro area has the 16th largest population in the country, but the transit system is only the 26th.
- Roadway construction will not keep up with population and travel growth.
Continued Population Growth

<table>
<thead>
<tr>
<th>Year</th>
<th>Population in Millions</th>
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<tbody>
<tr>
<td>2000</td>
<td>3.10</td>
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<tr>
<td>2010</td>
<td>4.15</td>
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<tr>
<td>2020</td>
<td>5.21</td>
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<td>2030</td>
<td>6.24</td>
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<td>2040</td>
<td>7.33</td>
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Travel Increasing Faster Than Population

<table>
<thead>
<tr>
<th>Year</th>
<th>Population</th>
<th>Vehicles</th>
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<tbody>
<tr>
<td>1940</td>
<td>1,000</td>
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<td>1950</td>
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<td>1,500</td>
<td>600</td>
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<tr>
<td>2000</td>
<td>1,600</td>
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</table>

Growth Index: 1940=100

- **Population**
- **Vehicles**
20-Mile Light Rail Line

LEGEND
- Light Rail Line
- Light Rail Station
- PHX Airport Shuttle
- Park-and-Ride

Montebello Ave
Camelback Rd
Campbell Ave
Indian School Rd
Osborn Rd
Thomas Rd
Encanto Blvd
McCormick Rd
Roosevelt St
Van Buren St
Washington St
Jefferson St

PHOENIX
I-17
SR 51
I-10
Loop 202
MES A
3rd St
Veterans Way
University Dr
Apache Blvd/
Main St
TEMPE

10th Ave
7th Ave
Camelback Rd
12th St
35th St
38th St
44th St
Prata Dr
Central Phoenix
Hill Ave
Rural Rd
Denney Ln
McCormick Rd
South-Main
Price-101 Fwy
Sycamore
Why This Corridor?

- Corridor has highest travel demand
- High demonstrated bus ridership – formerly the Red Line
- Highest employment concentrations
- Good residential base
- High student population
- Corridor contains most special event facilities
Project History

- Initiated Project Planning - 1996
- Started Preliminary Engineering – Sept 1998
- Approval of Alignment – Nov 2000
- Completed Environmental Process – Jan 2003
- Started Final Design – July 2003
- Full Funding Grant Agreement – Jan 2005
- Initiated Construction – Feb 2005
- Arrival of Light Rail Vehicle – Dec 2006
- Installation of 20 Miles of Track/Testing – April 2008
- System Opening – Dec 2008
“Cool Screen” Station

- 28 stations
  - Louvers & tensile fabric
    maximize shade
  - Benches, art & plants
  - Chilled water fountains
Unique Art at Each Station

- Roosevelt and Central
- 44th Street and Washington
- 1st Ave and Jefferson
- 19th Ave and Camelback

Dorsey and Apache
Light Rail Vehicle

- 50 Vehicles
- Heat reflective paint
- Low E, solar reflective windows
- Insulated car bodies to reduce cooling loss
- Bicycle racks, wheelchair accessible
Park-and-Ride Locations

3,513 Opening Day Park-and-Ride Spaces

Legend:
- Light Rail Line
- Park-and-Ride Locations
- PHX Airport Shuttle

Locations:
- Montebello Ave
- Camelback Rd
- Indian School Rd
- McDowell Rd
- Washington St
- Buckeye
- Broadway Rd
- 19th Ave
- 7th Ave
- Central Ave
- 16th St
- 24th St
- 28th St
- 38th St
- 85th St
- 101
- SR 51
- Loop 202
- Apache Blvd/Main St
- MESA
- TEMPE
- PHOENIX
- PHX

Spaces:
- Montebello Ave: 794 spaces
- Camelback Rd: 135 spaces
- Indian School Rd: 410 spaces
- McDowell Rd: 189 spaces
- Washington St: 300 spaces
- Buckeye: 802 spaces
- Broadway Rd: 693 spaces
Fare Inspectors

- “Proof of Payment” – passengers checked at random
- They can tell if your pass has been activated
- Citations: $50-$500 to losing transit privileges
Operations

- Operations
  - Monday thru Thursday 4 a.m. – midnight
  - Friday 4:40 a.m. to 3 a.m. (Sat)
  - Saturday 4:30 a.m. to 3 a.m. (Sun)
  - Sunday 4:30 a.m. to midnight

- Frequency
  - Weekdays – 10 mins peak hours - 20 mins off peak
  - Saturday - 15 mins peak hours – 20 mins off peak
  - Sunday and Holiday - 20 mins all hours of day
Absolute monthly weekday boardings through September 30, 2009.
Light Rail for Events

- 600 people in three-car trains
- 10-15% of venue attendees will ride
- Past events include NBA All-Star Event, New Years Eve Block party and ASU Graduation
Connecting ASU

- Students take classes from Tempe to downtown Phoenix
- U-Pass – students can use on both the train and bus
- Travel time = 25 min between campuses
Sky Harbor Connection

- 1,000 people per day are taking METRO to airport
- Free shuttle stops at all terminals
- Runs 7 days a week / mirrors train schedule
- Phoenix Sky Train coming in 2013
US Airways Center Ticket Program

- Pilot program between U.S. Airways Center and METRO
- METRO will accept game and concert tickets as a form of valid fare four hours before each event and through the end of that transit day.
Development Along 20-mile Route
2004 to Present

- $7.4 billion total investment along alignment (planned, under construction, or completed)
  - $5.9 billion private investment
  - $1.5 billion public investment
- 17,000+ residential units
- 9+ million square ft. commercial
- 3,200+ hotel rooms

Light rail investment

$1.4 billion

Non-rail investments

$7.4 billion
Future High Capacity / Light Rail
57-Mile System

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

Note: Dates indicate calendar year openings.
# Future High Capacity / Light Rail Project Schedules

<table>
<thead>
<tr>
<th>Project/Activity Year</th>
<th>'05</th>
<th>'06</th>
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<td>Northwest (Phase 1, 3.2 miles)</td>
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**LEGEND**
- **Planning**
- **Engineering**
- **Construction**

*Note: Dates indicate calendar year*