



# Tempe South Project Update

MAG Transportation Policy Committee

November 17, 2010





# Tempe South Study Area

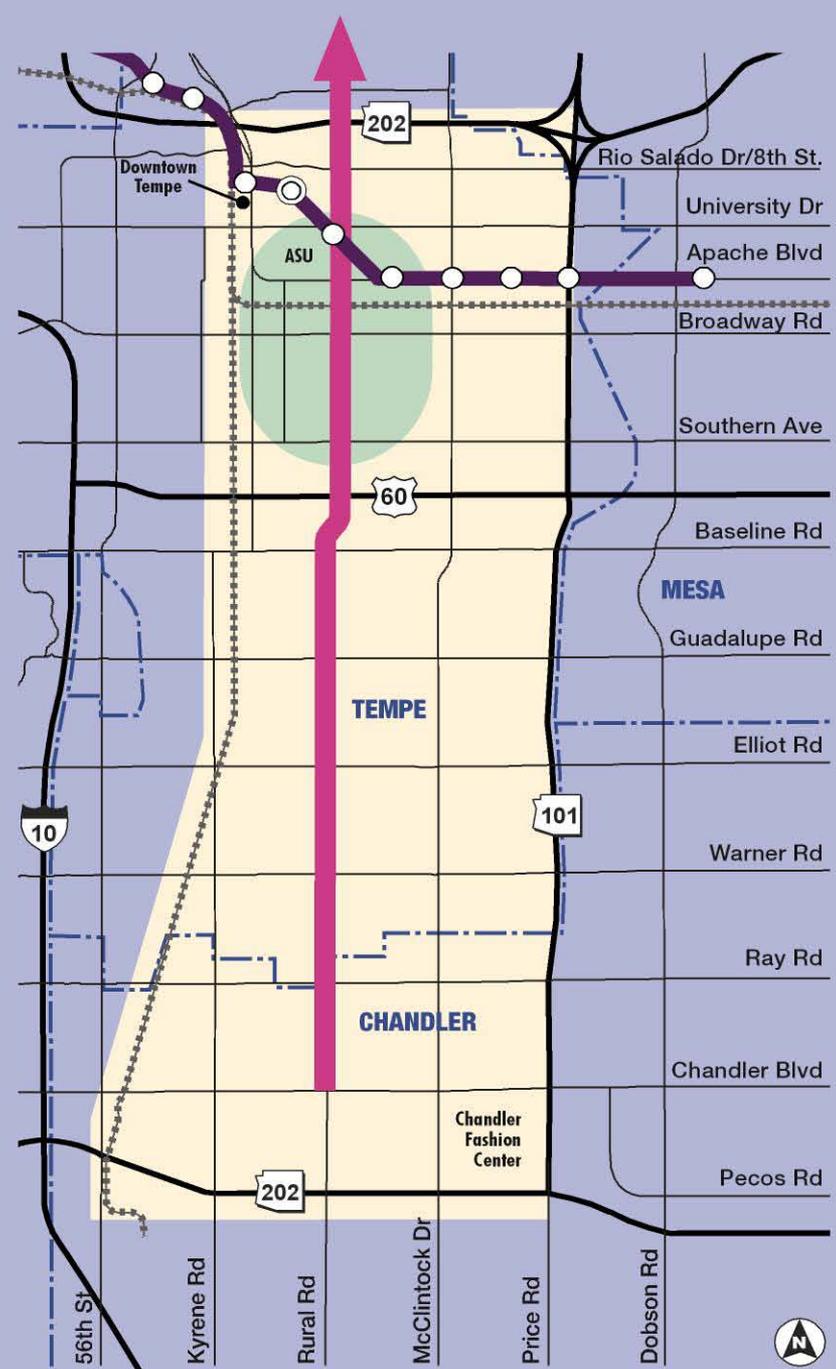
Proposition 400 sales tax (2004) included two projects per the MAG Regional Transportation Plan:

- High Capacity Transit: 2 miles  
- FUNDED
- Rural Rd Bus Rapid Transit: 12 miles  
- UNFUNDED - Prop 400 revenue shortfall  
- BRT was funded for 2015 completion

Recommendations for both projects are included in this study

### LEGEND

- |  |                                   |  |                        |
|--|-----------------------------------|--|------------------------|
|  | Light Rail Starter Line / Station |  | Study Area             |
|  | Tempe Transportation Center       |  | City Boundary          |
|  | High Capacity Transit Area        |  | Union Pacific Railroad |
|  | Rural BRT                         |  |                        |





# Alternatives Analysis: Purpose

## ■ Transit Technologies

- Light Rail Transit
- Commuter Rail
- Modern Streetcar
- Bus Rapid Transit



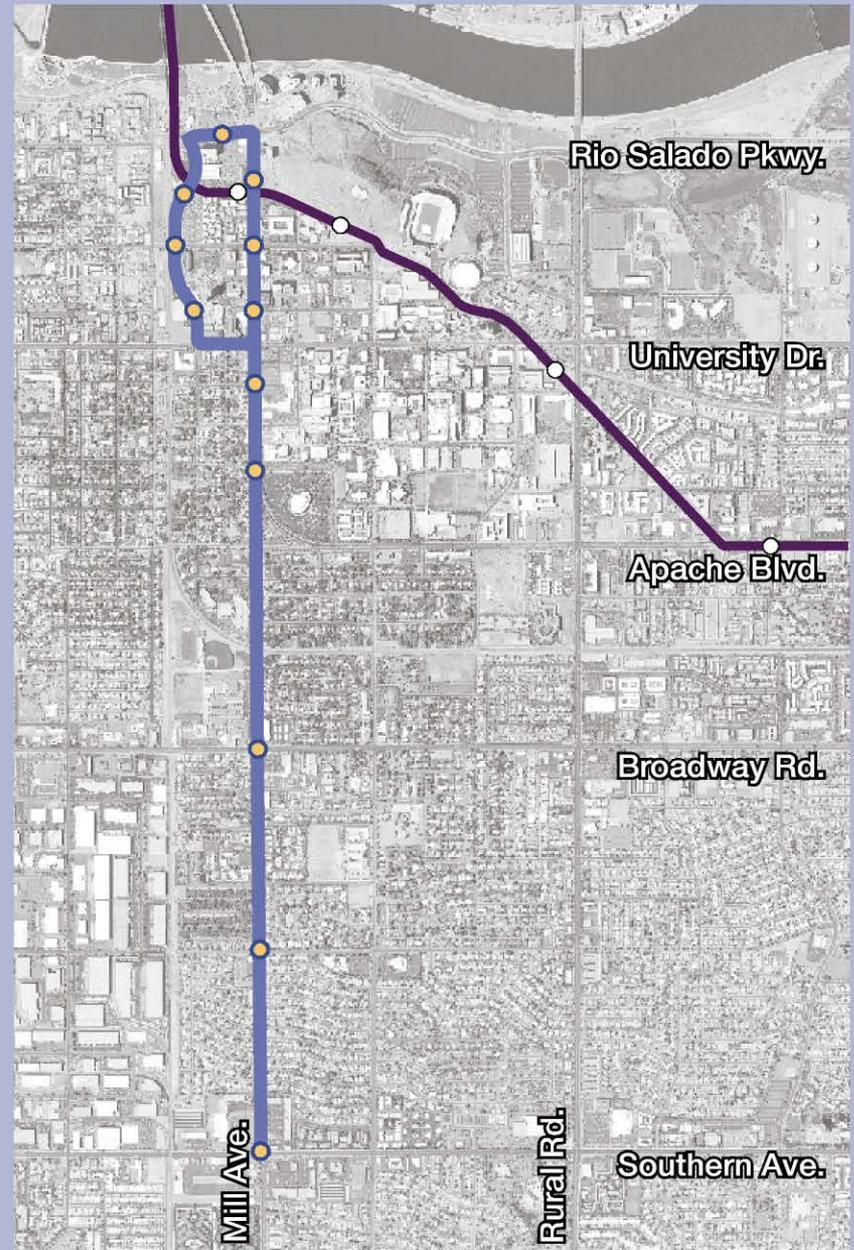
## ■ Alignment/Route

- Rural
- McClintock
- Mill
- Kyrene
- Tempe Branch UPRR





# Proposed Tempe South Locally Preferred Alternative



## LEGEND

-  METRO Light Rail Line/Station
-  Modern Streetcar/Stop - Mill/Ash Loop



# Downtown Tempe

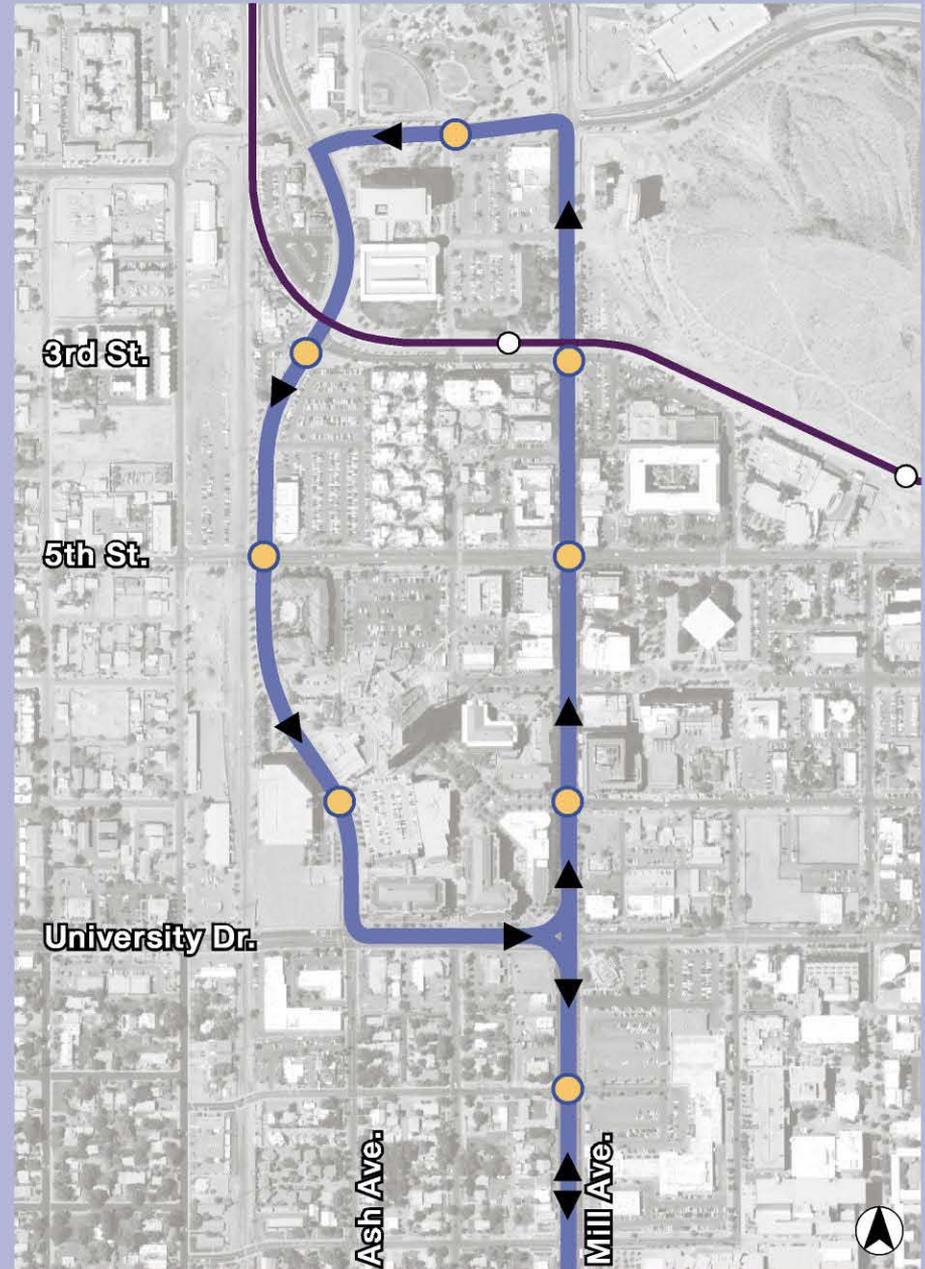
## Recommendation

### Why Mill/Ash Avenue Loop?

- Helps define downtown
- Opportunity to stimulate development/redevelopment
- Avoids utility impacts
- Reduces parking impacts
- Offers flexibility for special events
- Minimizes construction impacts
- Flexibility for future expansion
- Lowest cost

#### LEGEND

- METRO Light Rail Line/Station
- Modern Streetcar/Stop - Mill/Ash Loop





# Proposed Tempe South Modern Streetcar



## LEGEND

- METRO Light Rail Line/Station
- Transit Center
- Study Area
- Modern Streetcar Phase 1/Stop
- Future Phase
- Future High Capacity Transit
- Proposed Park-and-Ride
- City Boundary
- Union Pacific Railroad





# What is Modern Streetcar?

- Fixed-guideway electric rail system
- Operates in mixed traffic
- Articulated for tight radii turns
- Smaller than light rail vehicle
- 130 passengers per vehicle (35 seated / 95 standing)
- Typically operates as a single car unit
- Simple stations
- Catalyst for economic development





# Modern Streetcar Ridership & Cost Estimate



- Ridership (opening day):
  - 1,100 to 1,600 per day
    - Doesn't include special events
  
- Capital: TLCP Budget = \$162 m (YOE \$'s)
  - 27% Regional (Prop 400)
  - 73% Federal (Small Starts, CMAQ)
  - Cost Estimate - \$151 m to \$160 m
  
- O & M: \$3.6 m per year (in \$2017 dollars)
  - City of Tempe
  - Farebox



# Why Advance the Streetcar Proposal?

- The Streetcar will...
  - Increase transit ridership
  - Connect neighborhoods to downtown Tempe
  - Connect downtown residents to neighborhood services
  - Encourage redevelopment and reinvestment in neighborhoods
  - Promote livable city community
  - Provide seamless connection to LRT
  - Serve special events

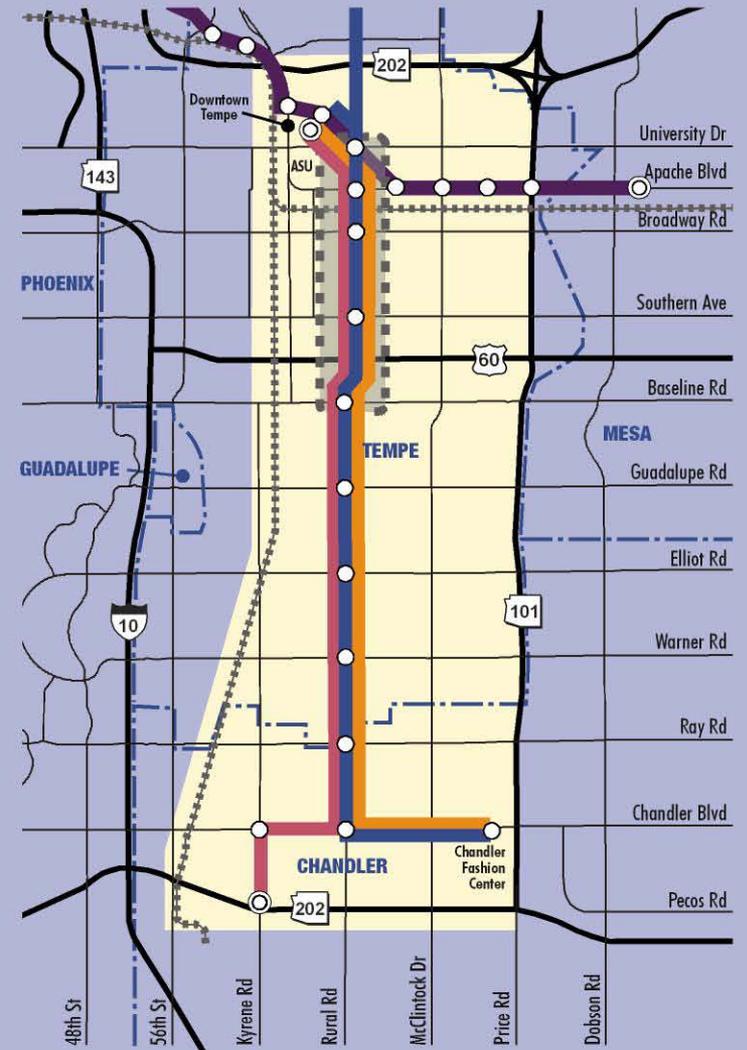
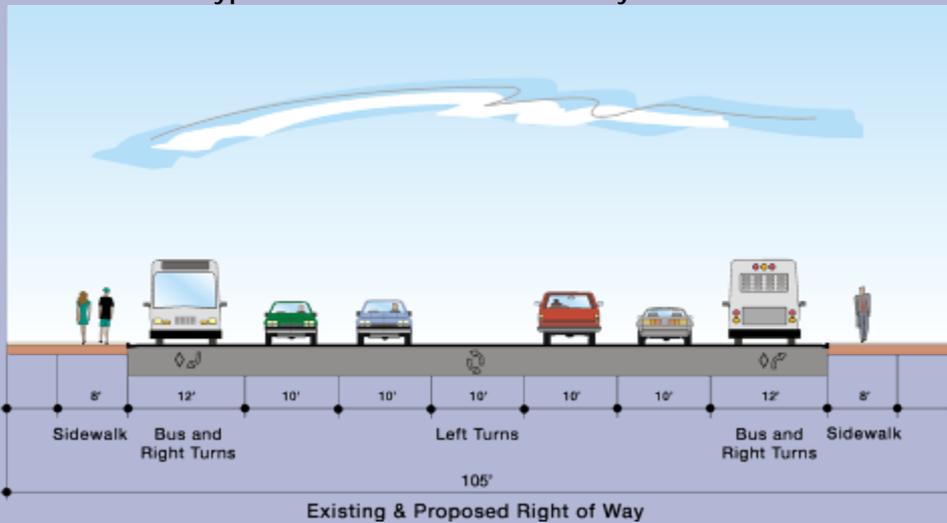




# Rural Road BRT



Typical Cross Section - University to Baseline



**LEGEND**

- Light Rail Starter Line / Station
- Semi-exclusive Lane
- Bus Route 72
- BRT - Chandler Mall to Tempe Transportation Center
- BRT - Kyrene/202 to Tempe Transportation Center
- BRT Station
- Transit Center
- Study Area
- Union Pacific Railroad
- City Boundary

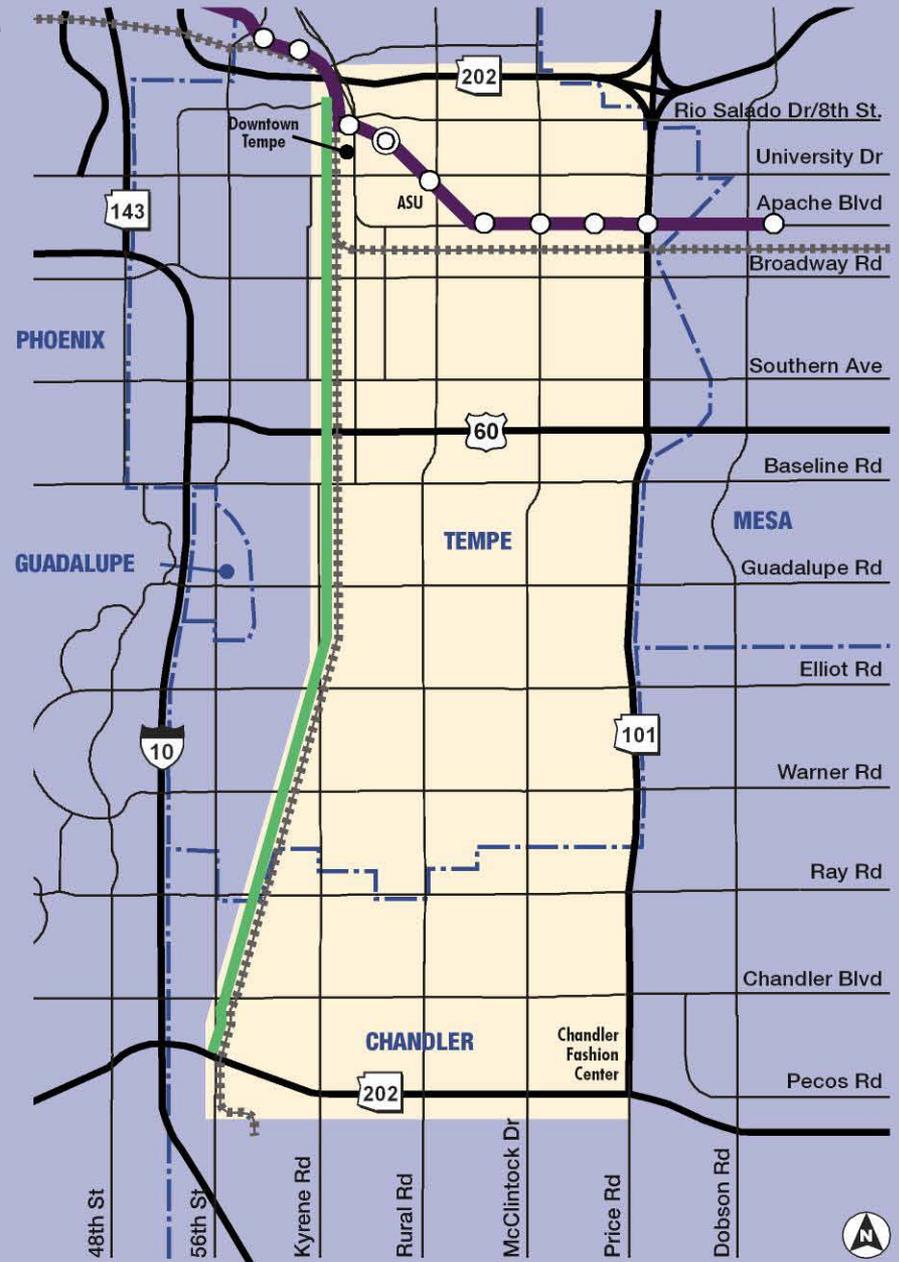


# Potential Future Commuter Rail

- Further consideration of Commuter Rail along the UPRR Tempe Branch as part of the regional planning process

## LEGEND

- Light Rail Starter Line/Station
- Commuter Rail
- Tempe Transportation Center
- Study Area
- City Boundary
- Union Pacific Railroad





# Study Recommendations

- **Endorsements**
  - **Tempe**
    - Transportation Commission
    - Ad-Hoc Advisory Committee
    - City Council
  - **Chandler**
    - Transportation Commission
  - **METRO**
    - Board of Directors
  - **MAG**
    - Management Committee



# Next Steps – Approval Process

- Council Actions
  - ✓ Tempe October 21
  - Chandler November 18
- Regional Actions
  - ✓ METRO Board November 17
  - MAG Regional Council December 8
- Small Starts Application Spring 2011



**METRO**

