Urban Rail Briefing City Council Work Session June 14, 2011

Austin Transportation Department Agenda Overview



- Introduction and Overview
- How does urban rail address our mobility issues? (Why rail?)
- What is Urban Rail's Route and Technology?
- How should urban rail be managed?
- What is financing plan status? What is the Federal role?
- Timeline and planned public involvement
- Questions & Answers

Mobility Vision – Public Driven

OASMP

An Austin with an integrated mobility network for the entire community that provides:

- Safe and efficient alternatives:
- Supports connected development around activity centers and corridors; and
- Respects the limitations of our natural resources as we respond to the region's rapid growth.



Source: ASMP Project Prioritization Process for Transportation Investments, April 2010.

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Roles & Responsibilities



- Austin Transportation Department (ATD)
 Roles & Responsibilities
 - Deliver a balanced, multi-modal system
 - Create sustainable transportation system
 - · Maximize efficiency of existing infrastructure
 - Increase travel options
 - Develop coordinated investment strategy (Pedestrian, Bicycle, Roads & Transit)









- Cross-Departmental Team
 - ATD
 - Public Works
 - Finance
 - Law
 - Real Estate
 - Austin Energy
 - Government Relations
- EGRSO
- Planning & Development Review
- Neighborhood Housing and Community Development
- Austin Water Utility
- Watershed Protection
- CLMD

Addressing Austin's Mobility Issues



Strategic Mobility Plan Delivers A multi-modal approach:

- MoPac/Ben White Interchange completion project
- Downtown Signal Retiming
- Bicycle-Pedestrian Projects
- 🛊 MoPac Express Lanes
- ★ I-35 Corridor Project
- ★ I-35 at 51st Interchange
- ★-"Y" at Oak Hill Improvements
- Airport, MLK, East Riverside, and North Burnet/Lamar Corridor Plans
 - Urban Rail System



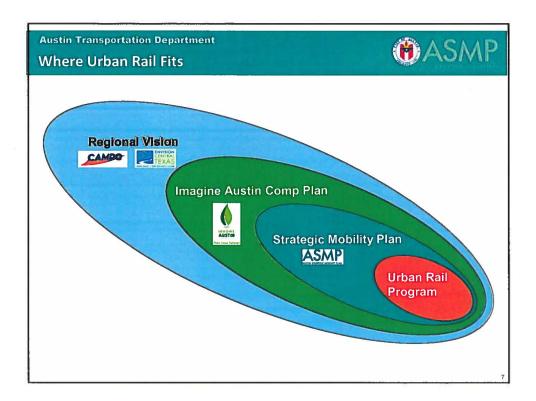


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Key Council Actions



- Approved FY10 CIP Budget for Long-Range Transportation Program, Sep. '09
 - Strategic Mobility Plan (Gap Analysis)
 - Urban Rail Studies
- Launched Austin Strategic Mobility Program, Nov. '09
 - Multi-modal transportation solutions for roadway, bicycle and pedestrian, and transit options
- Authorized series of Urban Rail Studies
 - Alternatives Evaluation & Conceptual Engineering Study, Oct. '09
 - Pre-NEPA Environmental Studies, Oct. '09
 - Economic Impact Analysis, Dec. '09
 - Advanced Conceptual Engineering, Dec. '09
 - NEPA Environmental Study, Feb. '11
- Directed 2010 Interim Bond Package; Timeline for Urban Rail Proposal, Mar. '10
- · Authorized Interlocals for Regional Rail Planning
 - Lone Star Rail District, May '10
 - Capital Metro (Regional Travel Demand Model and Regional Transit System Plan), Feb. '11



Austin Transportation Department Current Reality



Strategic Mobility Plan (ASMP) Findings

- Austin & Travis County doubled in population between 1990 and 2010
- 750,000 people to be added within 30 years (Imagine Austin)
- 200% <u>increase</u> in Vehicle Miles Traveled on Austin area roadways between 1980 and today
- Demand on roadway network is growing faster than network capacity
- 44 hours/year Central Texans spent <u>stuck</u> in traffic (TTI)
- 200 hours/year Central Texans will spend stuck in traffic without substantial transportation improvements
- 72% of all Austinites commute by driving alone

Austin Strategic Mobility Plan Update



- Key Takeaways from Strategic Mobility Plan
 - Austin's population is expected to double in 25 years
 - The region's employment core UT, Capitol
 Complex, Downtown are full at peak travel times,
 limiting growth
 - Central Austin's mature roadway system has no room to expand
 - We risk losing taxable property base by doing nothing
 - Improved mobility calls for providing options





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Austin Strategic Mobility Plan Update



- Address transportation network efficiency
- Develop a multimodal solution
- Integrate and coordinate regionally (partner)





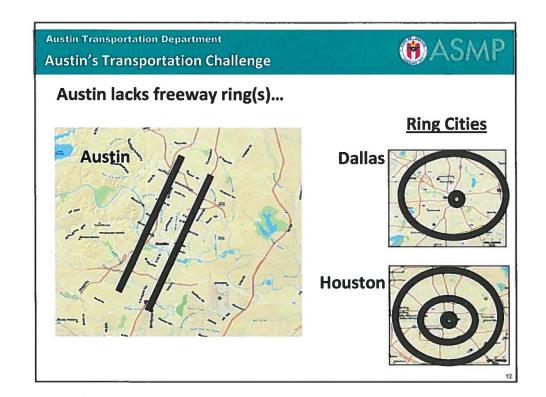


Austin Transportation Department Community Questions?



How can we address our Transportation Challenges?

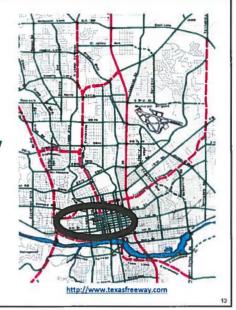




Austin Transportation Department Austin had a Freeway Ring Plan...



- TxDOT 1962 Freeway Plan
 - Central Freeway
 - North Lamar / Guadalupe
 - Crosstown Freeway
 - 12th / 15th Streets
 - Riverside / Town Lake Freeway
 - Cesar Chavez/Riverside



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Why is Central Austin Important?



- Central Austin
 - Regional anchor for Central **Texas**
 - Primary economic, cultural, and educational destination
 - Growth engine and major revenue generator for Austin
- Surrounded by constrained gateway intersections







Near Term Central Austin Projects



Downtown Developments



Near-Term Pipeline

- Federal Courthouse (5th & San Antonio)
- Cirrus Logic Office (6th &West)
- Hyatt Place (3rd & San Jacinto)
- Vermond Multifamily Highrise (8th & Nueces)
- Mixed Use Highrise (5th & Congress)
- 416 Congress Hotel (4th & Congress)

Capitol Complex + Pipeline

(Potential 10,000 to 15,000 new employees)

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Capitol Complex Growth Plan (Additional 5000 to 7000 employees)

Development Pipeline (Additional 5000 to 8000 employees)

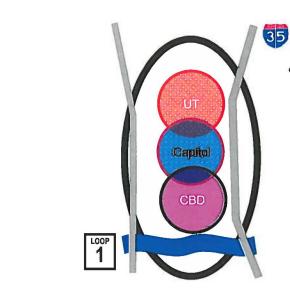
- Seaholm Development (Caesar Chavez & Larnar)
- Stubbs Venue Expansion (8th & Red River)
- Episcopal Church National Archives (7th and Trinity)
- East Block/Shoal Creek Walk (5th & Bowie)
- SevenRio (7th & Rio Grande)
- Convention Center Hotel (2nd & Congress)
- Travis County Complex (4th and Guadalupe)

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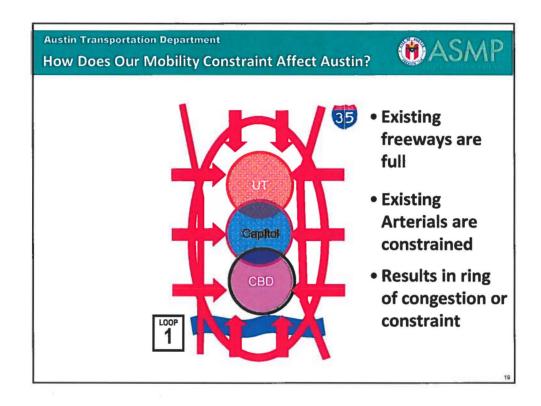


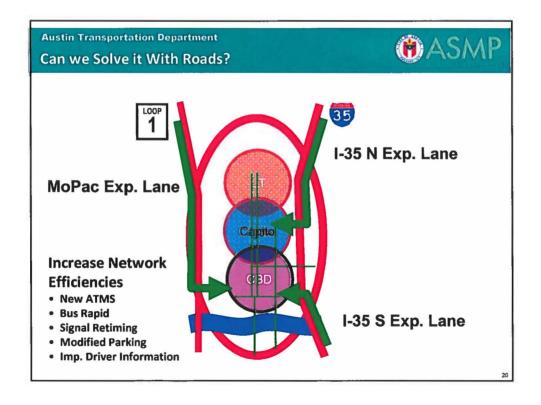
How Does Our Mobility Constraint Affect Austin?





 What is the cause of our mobility problem and what can we do about it?





Can we Solve it With Roads?



Roads Only

Potential Roadway Capacity Improvements: 4,000 to 5,000 New People/Hr

Assuming 2-hour Peak: 8,000 to 10,000 People/Commute

Incressa Rietwork

Near Term Development Pipeline (Potential 10K to 15K new employees) Exceeds Roads Only Solution

· Imp. Dräust Information

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What We've Learned from Other Cities...

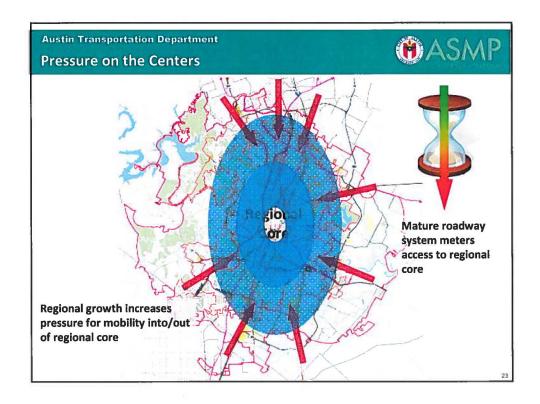


- Community Tipping Point
 - -30 minute trip
 - 2 million regional population
 - Congestion builds, mobility is limited



Personal Choices

- Find alternative route (cut-through traffic)
- Relocate residents/businesses to key destinations (CBD/affordability)
- Relocate to avoid key destinations (sprawl or move out of region)
- Choose another mode of transportation (pedestrian, bikes, improved commuter transit)



Central Texas has a Problem...



The continued vitality and economic health of our city and our region are at risk due to a lack of mobility

- The mobility systems serving our business and cultural core are inadequate to meet existing demand and future growth
- Health of the core determines health of the region
- Roadway investments are important but not enough to meet development pipeline
- New transportation investments, providing viable travel options, are needed to increase mobility



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Austin Strategic Mobility Plan



What is our Strategic approach?

- Address transportation network efficiency
- Develop a multimodal solution
- Integrate and coordinate regionally (partner)



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What We've Heard from the Public



- Address transportation system gaps and bottlenecks
 - Access to/from urban core
 - Improve efficiency
- Provide transportation options (multimodal options)
 - Focus on commuter services
- Foster regional integration and cooperation
- Invest in economic development and sustainable growth
- Provide a safe transportation system
- Ensure environmental stewardship and neighborhood coordination

Serving Central Austin

OASMP

Transportation Options Considered

- New/Expanded Roadways Constrained and not enough
- Express Lanes Investments in process (MoPac, I-35)
- Efficiency improvements of existing roads Investments in process
 - Driver information technologies
 - Signal improvements
 - Gap elimination
 - Interchange improvements
 - Bicycle and pedestrian improvements
- Rapid Bus *Investments in process* (N. Lamar/S. Congress & N. Burnet/S. Lamar)
- Regional Rail Network (City of Austin, Capital Metro, Lone Star) – Planning and investments in process



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Community Questions?



Can Urban Rail respond to our Mobility needs?







Improve the mobility, connectivity, and sustainability of Central Austin:

- · Provide greater mobility options
- Improve person-moving capacity
- Improve access and linkages to major activity centers and commuter and regional rail
- Support the City's environmental, public health, planning, and economic development goals
- Encourage investment

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What are the Identified Needs?



Provide direct connections between key destinations.

Mueller

Downtown / CBD

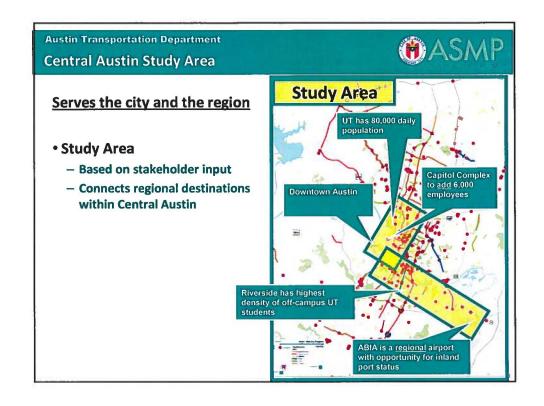
The University of Texas

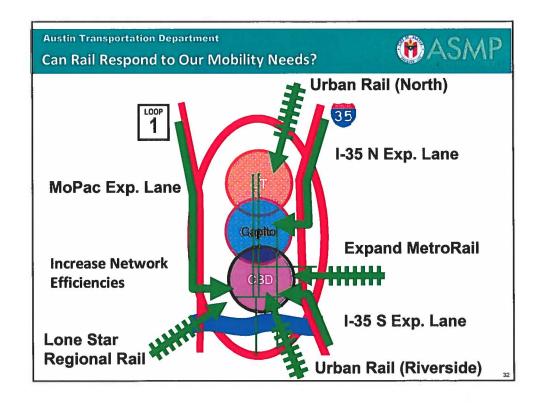
East Riverside Corridor

State Capitol Complex

Airport (ABIA)

- Expand connectivity to the emerging regional rail system (Red Line, Green Line, LSTAR)
- Increase transportation network capacity in constrained rights-of-way
- Provide alternatives to automobiles
- Attract and sustain development within the region's core
- Improve air quality





Can Transit Respond to Our Mobility Needs?



Illana Chail (Ninath)

Multimodal

Potential Roadway Capacity Improvements: 4,000 to 5,000 New People/Hr by Roadway

Potential Rail Capacity Improvements: 7,000 to 10,000 New People/Hr by Rail

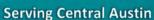
Assuming 2-hour Peak: 20,000 to 30,000 People/Commute

Efficiencies

Near Term Development Pipeline
(Potential 10K to 15K new employees)

Multimodal meets growth needs with room

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No-Build



Better Bus



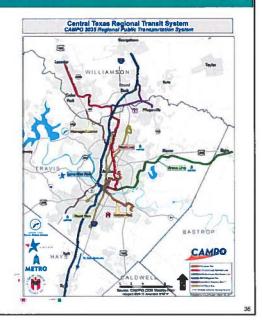
Urban Rail

Austin Transportation Department Central Austin Study Area

MASMP

Serves the city and the region

- Study Area
 - Based on stakeholder input
 - Connects regional destinations within Central Austin
- Serves as *keystone* to regional transit system



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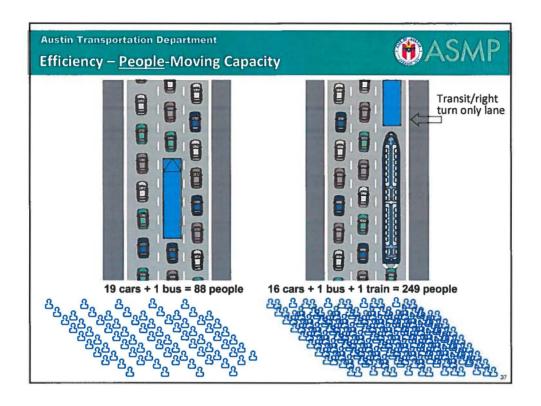
Serving Central Austin

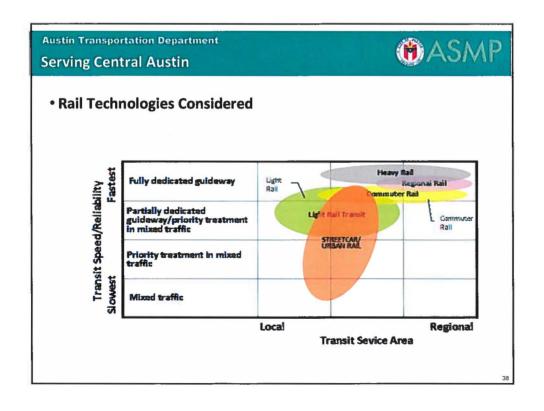


• Transit Technologies Considered

Mode	Criteria							
	Moderate speed	Moderate capacity	Ease of boarding	fits within urban environs		Good performance	Low Infrastructure need	
Conventional Bus	3	3	1	3	1	1	3	15
Better Bus	3	3	2	3	3	2	3	49
BRT	2	3	3	2	3	2	1,	16
Streetcar/Urban Rail	3	3	3	3	3	3	3	n
LRT	2	1	3	2	2	3	1	14
Commuter Rail	2	1	3	1	2	2	2	13
Regional Rail	1	1	3	1	1	1	1	9
Heavy Raff	1	1	3	1	1	1	1	9
Monorail	1	1	3	2	3	2	1	13
People Mover	1	1	3	1	2	3	1	12

Including Personal Rapid or Pod Transit Technologies



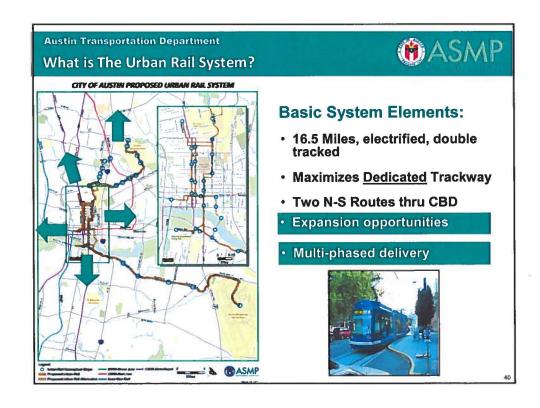


Austin Transportation Department Community Questions?



What is Urban Rail's Route?





Defining a First Investment (First Phase)



- Provide direct connections to key destinations
 - Connect UT-Capitol-CBD
 - Cross Lady Bird Lake/connect to Riverside
 - Connect to ABIA
 - Connect to Mueller
- Expand connectivity to the emerging regional rail system (Red Line, Green Line, LSTAR).
 - Connect to Red Line in CBD
 - Connect to Red Line N/E of UT
 - Connect to Regional Rail (LSTAR)
 - Connect with Regional Bus Investments
- Increase transportation network capacity in constrained rights-ofway.
 - Break through "Ring of Constraint"
 - Provide Opportunity for Park & Ride at End(s)

- · Provide alternatives to automobiles.
 - Serve Existing or New Ridership
- Attract and sustain development within the region's core
 - Maximize Econ Dev opportunities
 - Ability to be funded within local financial capacity (City + partnerships)
 - Maximize opportunity for partnerships
 - Maximize opportunity for federal participation (now or in the future)

Improve air quality

- Serve Existing or New Ridership
- Provide Park & Ride at End(s)
- Serve Existing or New Ridership

Other Key Criteria

- Provide opportunity to locate an O&M Facility
- Operable during special events (self redundancy)
- Provide logical termini
- Provide independent operability
- Minimize risk of failure (environmental risk, cost risk, etc.)

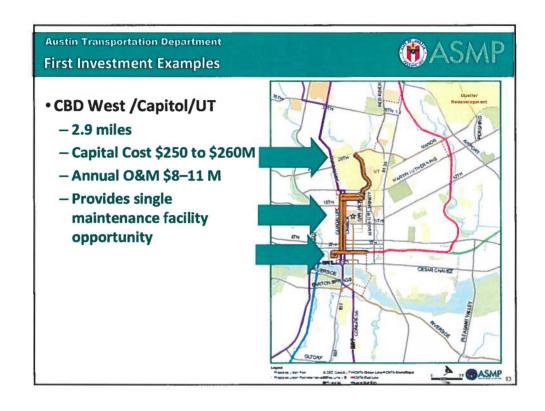
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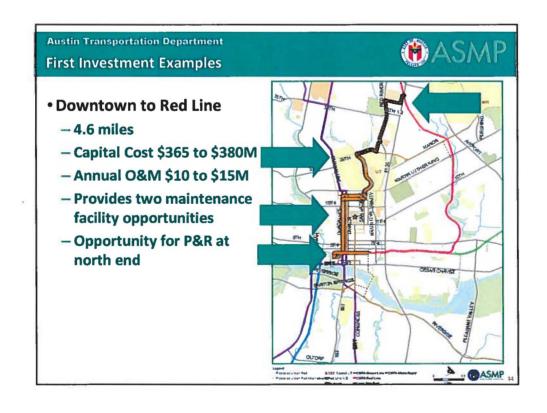
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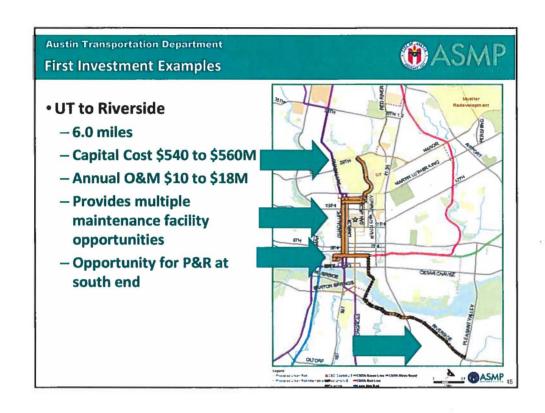
Defining a First Investment

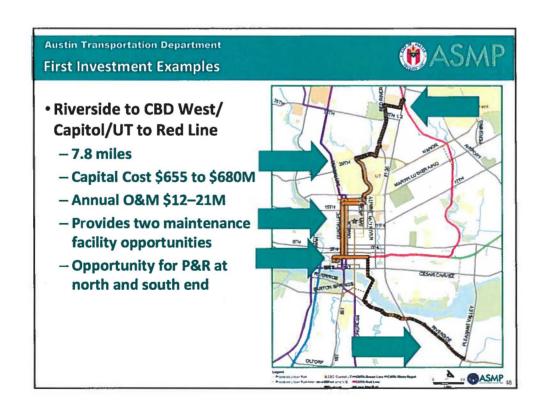
- CBD West/Capitol/UT
- CBD East/Capitol/UT
- Downtown to Red Line
- UT to Riverside Corridor
- Downtown to Airport
- Downtown to Mueller
- Full System or Combinations of parts











Austin Transportation Department Community Questions?



How should urban rail be managed?



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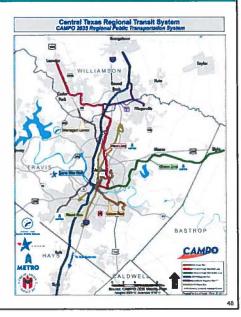
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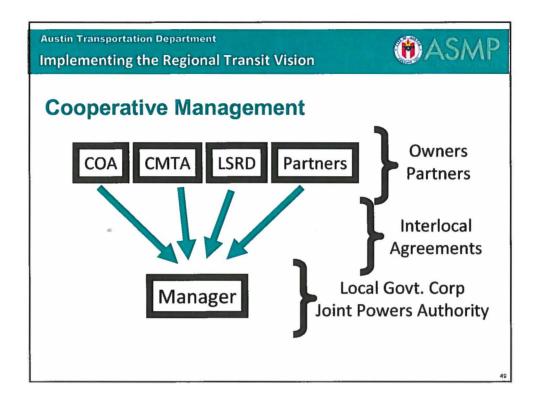
Implementing the Regional Transit Vision

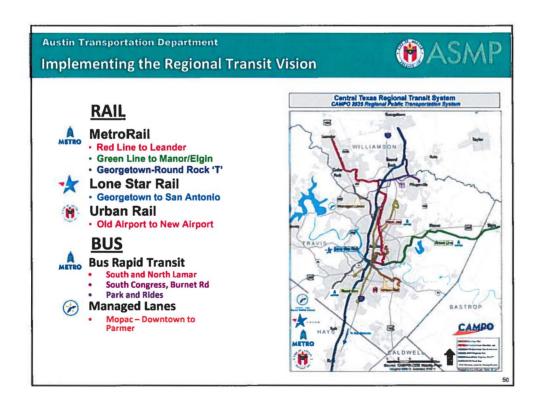


How do we operate and manage the evolving system?

- Self-Operate
 - Contract with private-sector operator
- Contract with one of the other operating agencies
 - Cap Metro/Lone Star/Mobility
 Authority
- Partner with one or more agencies to form joint operating authority







Community Questions?



What is financing plan status? What is the Federal role?



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Financial Analysis of Urban Rail



- City's Financial and Administrative Services Department assisting with preliminary financial analysis of urban rail
 - Using preliminary capital and operating cost estimates to identify timing and amount of funding needs for an initial phase
 - Assessing potential funding sources
 - Major sources could include federal funding, general obligation debt, and tax increment financing.
 - Exploring innovative financing tools and techniques
- Work plan shared with Council in May, estimated completion in September or October
 - Coordinating urban rail financial analysis as part of City-wide capital needs assessment to help Council weigh funding priorities
 - Overall effort to consider credit rating agency criteria, tax impact

New Starts Program



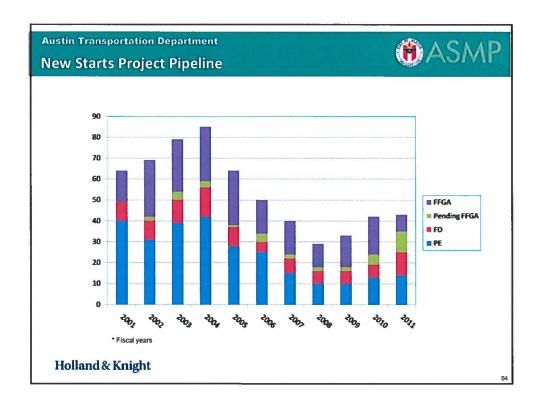
New Starts

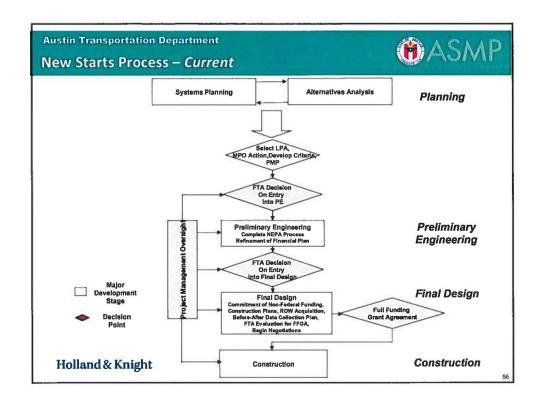
- Annual Funding of \$1.6 billion in FY 10 and \$1.6 billion FY 11
 - · Administration seeking \$3.26 billion in FY 12
- Projects more than \$250 M in project cost and seeking more than \$75 million in Federal New Starts funds
 - 80/20 match but most localities provide 50 percent
- Heavy rail, light rail, commuter rail, bus rapid transit (BRT) with dedicated lanes or streetcars

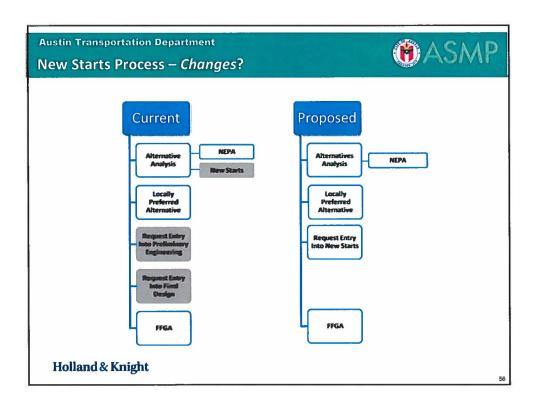
Criteria for Evaluating Projects

- Project Effectiveness Land use and Economic Development matter more than travel time
- Financial Plan local financial commitment for both capital and operations and maintenance is crucial
- Ridership employment, housing, regional attractors and travel time

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New Starts Process - Changes?



Intended to

- Have AA emerge out of a locally driven process
- Expedite project approval process
- Facilitate innovative project delivery (e.g., design-build)
- Attract private sector funding

Will enable project sponsors to secure funding earlier in project development process

- No longer have to wait until final design
- No agreement on
 - New Starts criteria
 - Actions necessary to demonstrate readiness to enter New Starts/Small Starts

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Positioning Project for New Starts Funding



Land Use and Zoning

- Adopt ordinances that enhance density in project corridor
- Develop station area and project corridor land use plans

Economic Development

- Existing and planned development in project corridor
- Developer agreements, adoption of tax increment financing district or private sector investment to build stations

Financial capacity

- Demonstrate adequate funding to build, operate and maintain system
- City will bear cost of early project work (Alternatives Analysis, NEPA and Preliminary Engineering) but funding for PE and Final Design are counted as local match)
- Successful bond election for capital funding is a strong signal of community support and will enhance prospect for New Starts funding

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Strengths of Project Corridor



Key Regional Attractors

- University of Texas large student population and many campus events that result in off-peak ridership
- State, County and City office buildings and many employees
- Healthy downtown with a mix of commercial, retail and housing already in place

Opportunities for Development in Corridor

- Mostly portions of city blocks and not large undeveloped areas
- City can guide development to project corridor through land use and zoning decisions
- FTA emphasis on land use and economic development and reduced focus on travel time
- Strong existing bus ridership
 - Demonstrate use of transit in project corridor
 - Serve transit-dependent and student populations already

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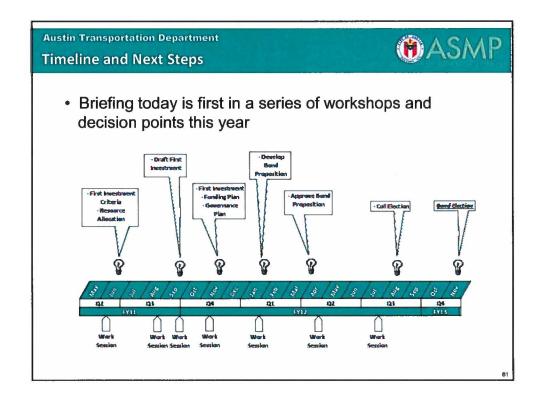
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Community Questions?



Timeline and Public Involvement





Public Involvement for Urban Rail



- Public Involvement activities for NEPA Environmental Studies,
 Alternatives Analysis and Regional Transit System Planning Efforts
 - Stakeholder/community meetings and briefings
 - Prepare and publish Scoping document
 - Newsletter and website updates
 - Open Houses and web-based community surveys
 - Special outreach to underserved communities
 - Publish and circulate Draft Environmental document
 - Conduct public hearings
 - Coordinate Regional Transit System Planning Outreach efforts

Closing Thoughts



- It's about our Quality of Life, Economic Sustainability, and Community Vitality
 - Improve efficiency of transportation system to assure economic vitality and sustainability
 - Develop multimodal system to improve access and safety
 - Integrate and coordinate regionally











Questions and Discussion?