



City of Austin Planning Commission Briefing

January 23, 2018







Transit and Imagine Austin

THRIVING

HEALTHY AUSTIN

CREATIVE **ECONOMY**

COMPLETE COMMUNITIES

COMPACT & CONNECTED

CODENEXT

PATHS TO PROSPERITY

AFFORDABILITY

WORKFORCE

NATURE INTO CITY

WATER

ENVIRONMENT



Public transportation interacts with all of these priorities, helping to shape and being shaped by each.

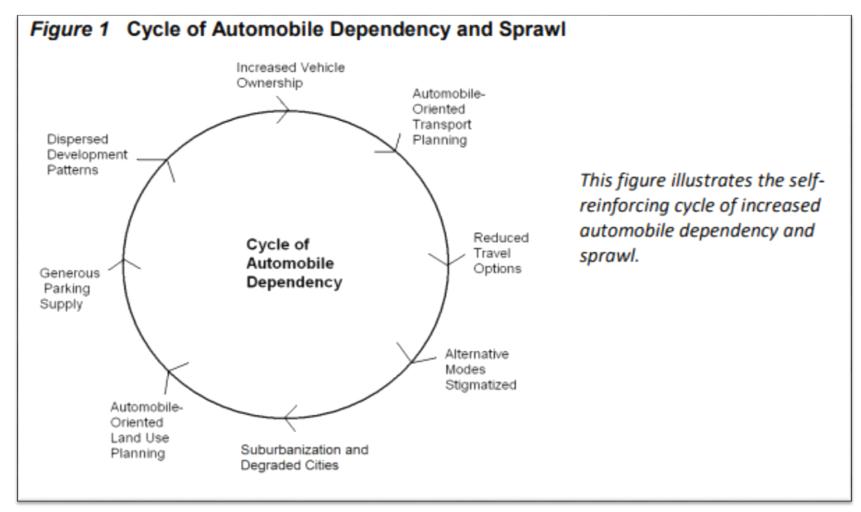
1/23/2018 **Presentation Title**







Where We've Been...

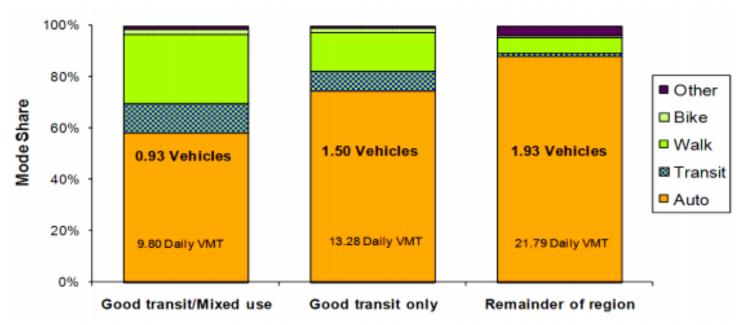


http://www.vtpi.org/landuse.pdf

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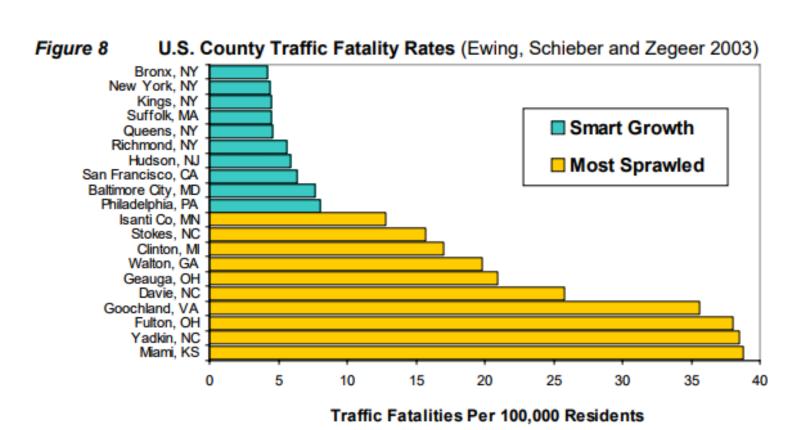




People who live in transit-oriented communities tend to own fewer vehicles, drive less and rely more on alternative modes. "Daily VMT" indicates average daily vehicle miles traveled per capita.

TOD Impacts On Mode Split in Portland, Oregon (Ohland and Poticha 2006)

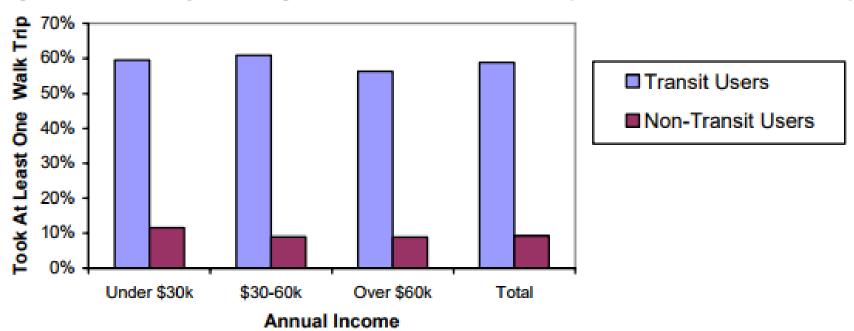
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The ten smartest growth counties have about a quarter the traffic fatality rates as the most sprawled.

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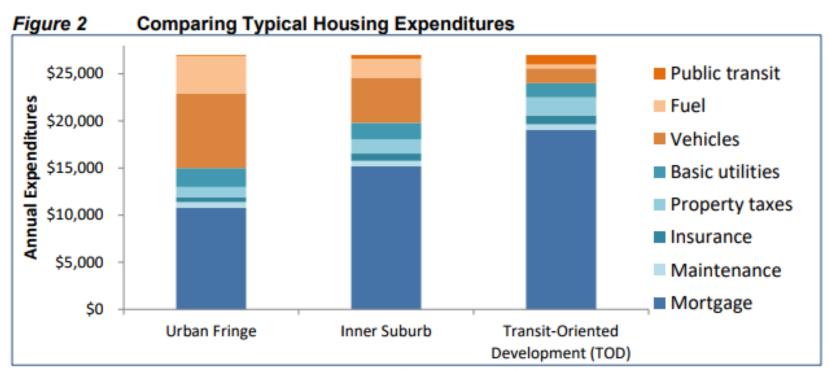


Public transit users walk more than non-transit users, regardless of income.

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A typical \$60,000-annual-income household can afford to spend \$27,000 on housing and transport combined. Smart Growth reduces transport and increases housing expenditures.

Source: http://www.vtpi.org/ssg.pdf
Presentation Title





Transit and Land Use- What's the Connection?

Many Factors Affect Transit Use...CodeNEXT affects some of

the most critical



Quantity of Service Provided

External Factors

- **Employment (region and CBD)**
- Income
- Population
- Auto exmership and cost
- Parking availability and cost
- Land use







Key Findings from UCLA Study

 "Not surprisingly, dense, compact development is found to be more conducive to efficient transit operations than dispersed and sprawling patterns of urban development."

Taylor, et al. The Factors Influencing Transit Ridership: A Review and Analysis of the Ridership Literature.

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Key Findings from UCLA Study

 "...of the 40 land use and demographic variables included, the most important for determining transit demand...are overall housing density per acre and overall employment density per acre." -

Taylor, et al. The Factors Influencing Transit Ridership: A Review and Analysis of the Ridership Literature.

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Key Findings from UCLA Study

 "Taken as a whole, variables which directly or indirectly measure automobile access and utility (including auto ownership and parking availability) explain more of the variation in transit ridership than any other family of factors." - Taylor, et al. The Factors Influencing

Transit Ridership: A Review and Analysis of the Ridership Literature.



Key Findings from UC Berkeley Study

• "...if fixed-guideway transit is to yield appreciable dividends, there must be a close correspondence between transit investments and urban development patterns." – Cervero, et al. Cost of a Ride: The Effects of Densities on Fixed-Guideway Transit Ridership and Capital Costs.

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Key Findings from UC Berkeley Study

 "Successful transit-oriented development requires pro-active government involvement, which includes zoning for the densities needed to sustain costeffective transit services...our analysis suggests that many transit stations in the US do not have the surrounding job or population densities to support cost-effective transit service. We suspect these barriers are more regulatory than market-driven and that restrictive zoning is a major obstacle to increased transit efficiency." -Cervero, et al. Cost of a Ride: The Effects of Densities on Fixed-Guideway Transit Ridership and Capital Costs.

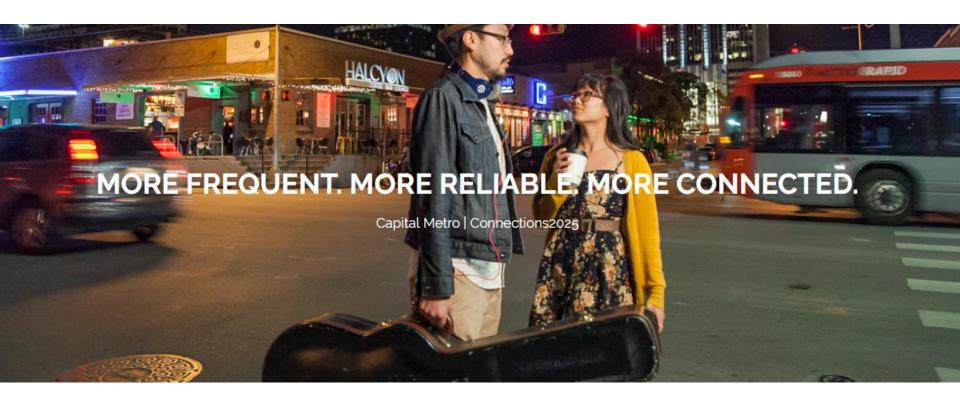




How is Capital Metro Engaging?

Connections 2025 Transit Oriented Development Project Connect

Connections 2025





June 2018 Service Change

More Frequent

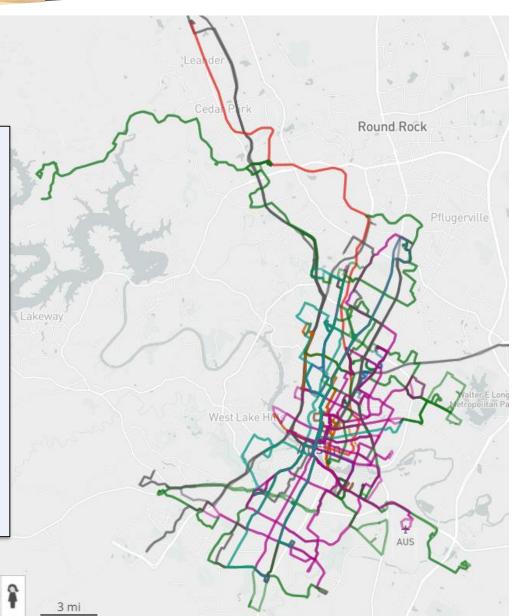
- 14 High-Frequency Routes
- Departures at least every 15 minutes
- 7 days a week

More Reliable

- · More direct routing
- · Eliminates route deviations within neighborhoods
- Easier to understand system

Better Connected

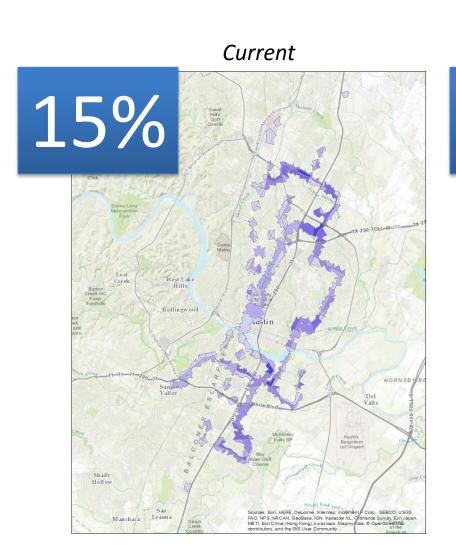
- · Routes designed to work as a system
- · Decreased waiting time for your next bus
- · Riders able to transfer with more confidence







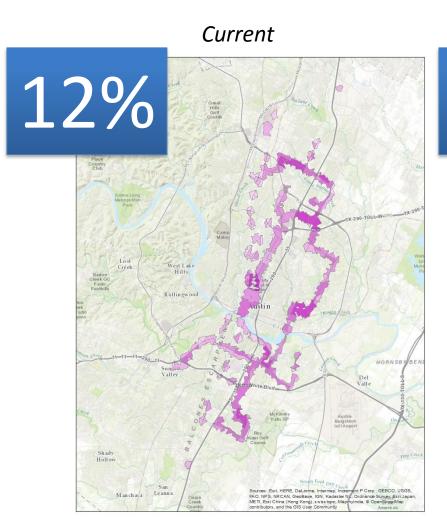
Households in Poverty within 5-minute walk of Frequent Service

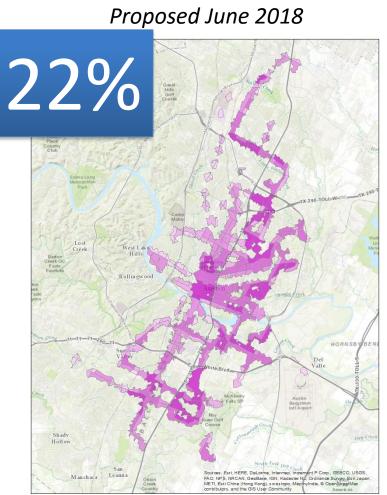


Proposed June 2018 27% HORNSBY

METI, Esri China (Hong Kong), swisstopo, Mapm











Transit Oriented Development

Transit-Oriented Development Guide

2016

A Resource Manual for Designing Good Urbanism



Capital Metropolitan Transportation Authority | Austin, Texas



TOD Priority Tool Executive Summary

A Resource for Identifying TOD Opportunities to Support High-Capacity Transit



Capital Metropolitan Transportation Authority | Austin, Texas

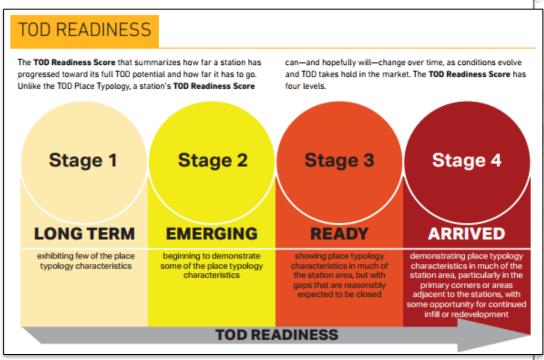


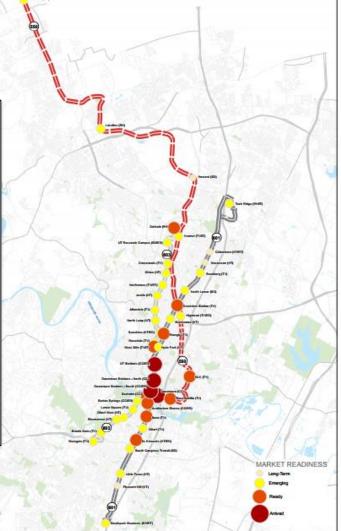
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TOD READINESS SCORES

Stations on the MetroRapid 801, MetroRapid 803, and MetroRail corridors exhibit all four stages of TOD Readiness.

Ready to Support CodeNEXT





1/23/2018

Presentation

Item E-01



Target Ridership

Score

Grading

Field Work

Each Station Area has 7 maps, area photos, station amenities, and a Score Card:

Funded Capital Projects

SoCo Station | Morro Rapping 01 South Segment Service Open 2014 FACTS Target Weekday Ridership 290-660 Profile Date 2016 PLACE **TOD Village** TYPOLOGY READINESS Ready SCORE Connectivity READINESS Market Strength METRICS Land Availability Low Government Support Safety and security (Re)development opportunities · Lighting in parking lots, along · Built-out: limited remaining infill sidewalks and stations potential Wayfinding to Texas School for Station amenities the Deaf · Pedestrian-scale streetlights, particularly at crosswalks Streetscape improvements · Sidewalk repairs on South · Shade: trees or shade structure Congress Avenue Additional bicycle parking · Widen sidewalks in certain Other amenities locations · Wayfinding to note areas within · Mitigate utility obstructions in a "10 minute walk" middle of sidewalk NEEDS Public/placemaking/art opportunity Bike lane on east side of South · Possible "third place" and/or Congress Avenue, currently only potential for functional art · Safe design · Bike parking corrals in public · Enhanced visual cues at crosswalks, e.g. lighting in Traffic calming, e.g., landscaped median, streetscape enhancements, building awnings, decorative lighting, Little Stacy Neighborhood Park-General Park Improvements CATALYST (Parks and Recreation) **PROJECTS**













- Austin Strategic Mobility Plan (ASMP)
 - Meet bi-weekly since Summer 2016
 - 2 Traffic Jams
 - 6 MCAC meetings
 - Co-present at Neighborhood meetings

- Corridor Program Office (2016 Mobility Bond)
 - Meeting since Spring 2017
 - **5** Cost & Risk Assessment Meetings









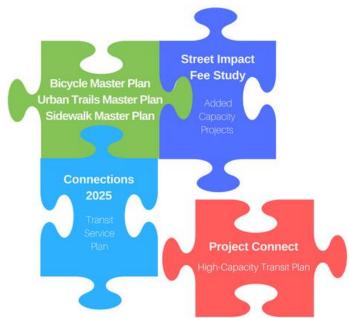




Austin Strategic Mobility Plan & Project Connect

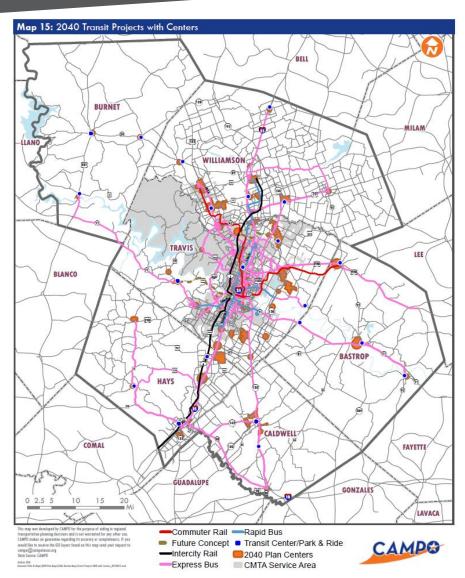


- Coordinated timelines
- High-Capacity Transit
 Element of the ASMP



Project Connect

- Provides framework to develop high-capacity transit projects (BRT, rail)
- Links urban & suburban centers together with highcapacity transit
- Supports Imagine Austin & CAMPO 2040 Plan centers

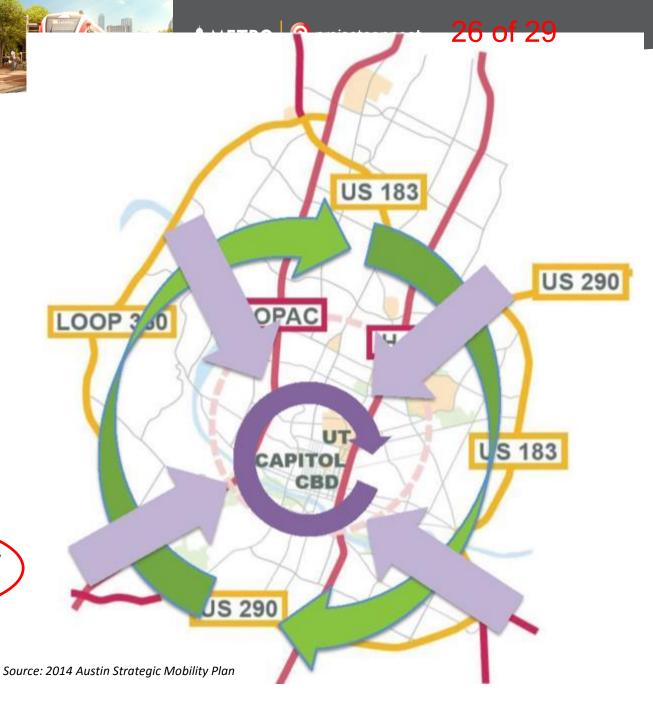


Overall Purpose

 Improve high-capacity transit access into, out of and within Central Austin

Enhance existing
 MetroRail, MetroRapid,
 MetroExpress

 Select new high-capacity transit projects



People Moving Capacity

Existing Roadway:

Four auto lanes + turning lane

= 100 persons per hour

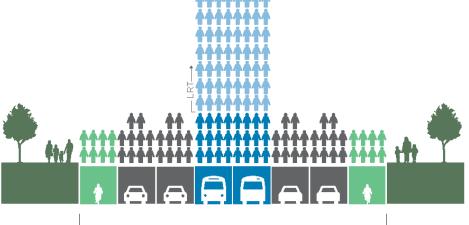
Option 1:

Center Running at Grade (LRT or BRT)

- 100 persons per hour



Total Throughput: 4,000 Persons per Hour



Total Potential Throughput:

8,250 to 14,000 Persons per Hour

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Phased Approach to Project Development

Phase 1

Big Ideas, Bold Starts

(6-9 mo.)

Phase 2

Real Solutions for Real Problems

(14-18 mo.)

Phase 3

Path to Implementation

(4-6 mo.)

SELECTION

- Tier 1 Feasibility Analysis
- Where are high-capacity enhancements / new services needed?
- Which projects are most critical / make the most sense?

DETAIL ANALYSIS

- Tier 2 Technical Evaluation
- What is the best system of solutions?
- What is the most effective strategy for implementation?

PROJECT DEVELOPMENT

- Locally Preferred Alternative (LPA) Selection
- Advanced planning / PE / NEPA (if necessary)
- FTA Project Development Application -- local funding and policy adoption



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Thank You!

www.capmetro.org www.connections2025.org www.projectconnect.com