FEDERAL TRANSIT ADMINISTRATION

Manual on Pedestrian and Bicycle Connections to Transit

December 4, 2017

Edwin Rodriguez





U.S. Department of Transportation Federal Transit Administration

FTA Manual Beginning

- FTA entered in a cooperative agreement with Portland State University (PSU) to create a manual to address pedestrian and bicyclist safety, accessibility, and mobility related to transit facilities and vehicles.
- Manual is part of the U.S. Department of Transportation (DOT) Safer People, Safer Streets: Pedestrian and Bicycle Safety Initiative.

FTA's Office or Research, Demonstration, and Innovation:

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- Jamie Pfister
- Mary Leary
- Faith Hall
- Michael Baltes
- Roy Chen

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- Matthew Welbes Office of the Administrator
- Joanne Waszczak Office of Safety and Oversight
- Richard Wong Office of Chief Council
- Valerie Berton Office of Communications and Congressional Affairs
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Other DOT Key Involvement:

- McCann, Barbara Office of the Secretary
- Anthony Burton Office of the Secretary
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- Sherry Riklin FHWA
- Daniel Goodman FHWA
- Gabriel Rousseau FHWA



Portland State University (PSU):

- Dr. Jennifer Dill
- Nathan McNeil
- Dr. Lynn Weigand
- Dr. Allison Duncan
- Russ Doubleday
- Drew DeVitis



Webinar Outline

Background on Manual

Station Areas

Pedestrian Access

Bicycle Access

Planning and Implementation



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Manual Goals

Making the case for walking and biking connections

Access for users of all ages and abilities

Tools, examples and best practices

Connect research and practice

How to plan and implement



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Benefits of Ped/Bike Connections to Transit

		Transit		
	Provides Benefit to	Agency	Riders	Everyone
<	Transit depends on safe pedestrian access	\checkmark	\checkmark	
	More Equitable		\checkmark	
<	Extend the Reach of Transit	\checkmark	\checkmark	
	Gives Riders more Options		\checkmark	
	Supports Mulitmodal trips		\checkmark	
	Alleviates Crowding	\checkmark	\checkmark	
	Helps in cases of Transit Outages	\checkmark	\checkmark	\checkmark
	Improves Health and Well-being	\checkmark	\checkmark	\checkmark





Around the Stop or Station

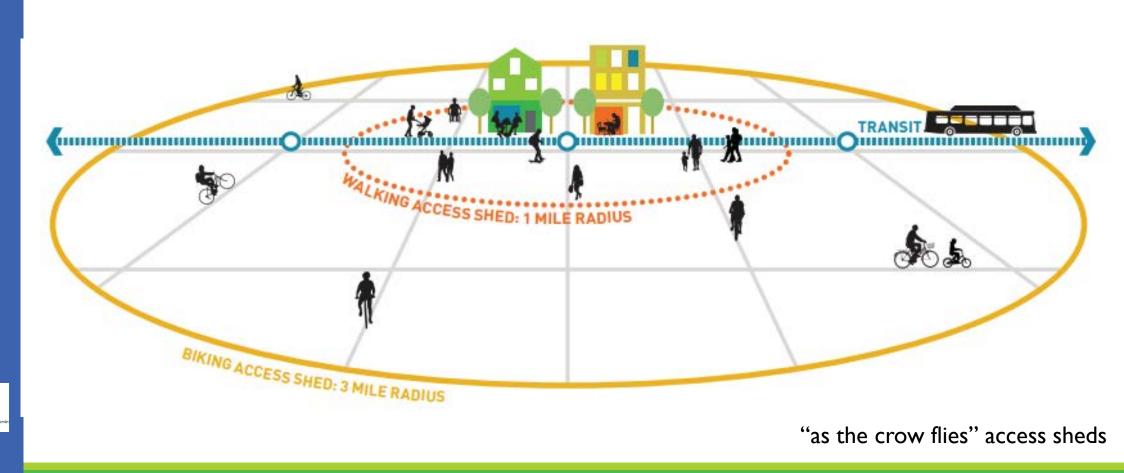
FTA Policy on First and Last Mile Connections

The Federal Transit Administration's 2011 Final Policy Statement on Eligibility of Pedestrian and Bicycle Improvements Under Federal Transit Law states:

all pedestrian improvements located within one-half mile and all bicycle improvements located within three miles of a public transportation stop or station shall have a de facto physical and functional relationship to public transportation. Pedestrian and bicycle improvements beyond these distances may be eligible for FTA funding by demonstrating that the improvement is within the distance that people will travel by foot or by bicycle to use a particular stop or station.



Key Concept: Access Sheds



TREC Temportations (religits for Vibrana Commune

F T A

Source: Atlanta Regional Commission's Walk. Bike. Thrive! plan

Access Sheds: Network Distances

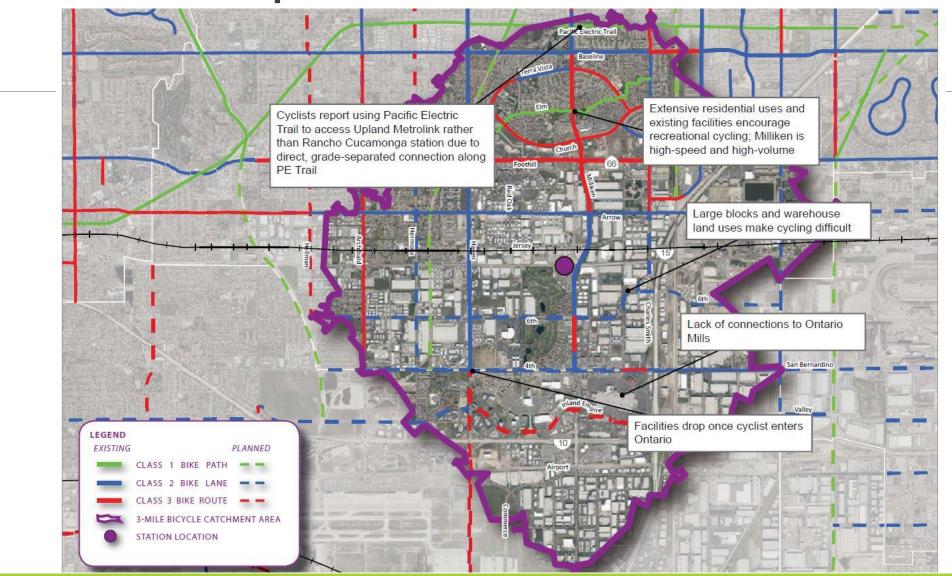






Source: NCTCOG Active Transportation Routes to Rail study

Bike Shed Example

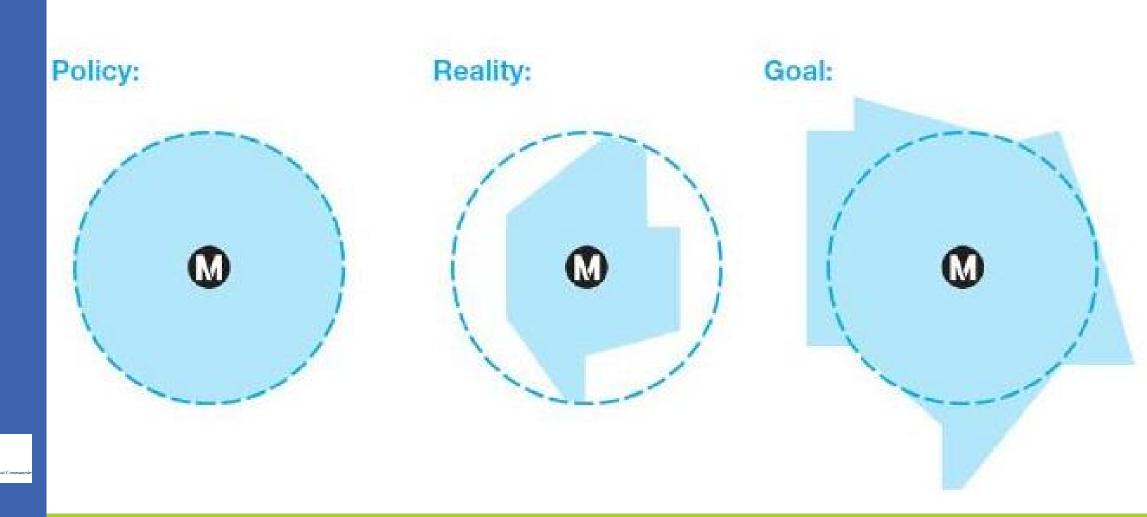


TREC



Source: San Bernardino Associated Governments Improvement to Transit Access for Cyclists and Pedestrians Final Report

Expanding the Access Shed





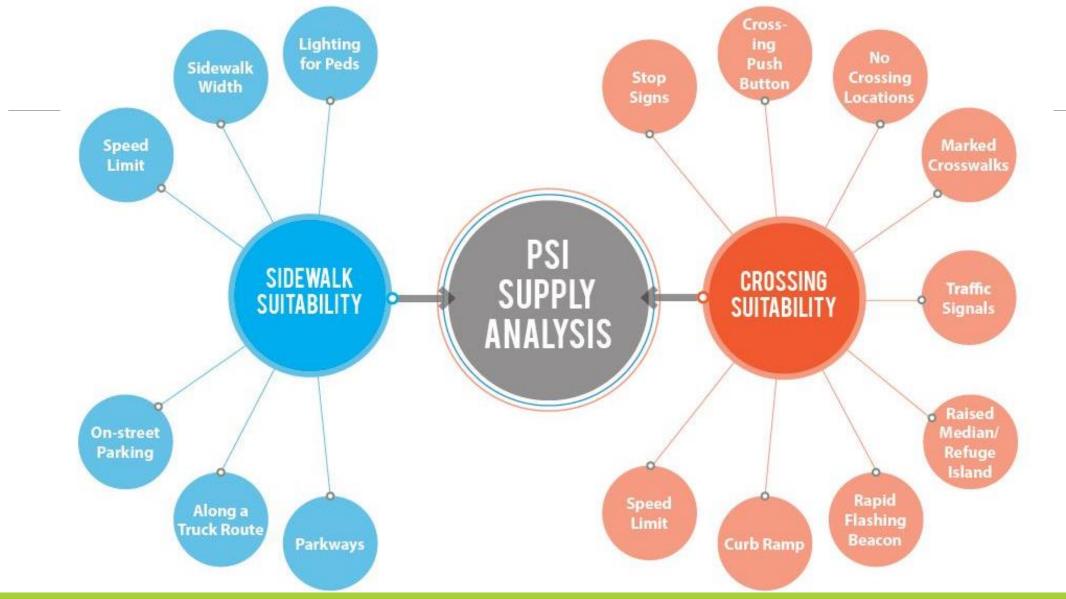
TREC

Source: LA Metro First Last Mile Strategic Plan

Pedestrian Access

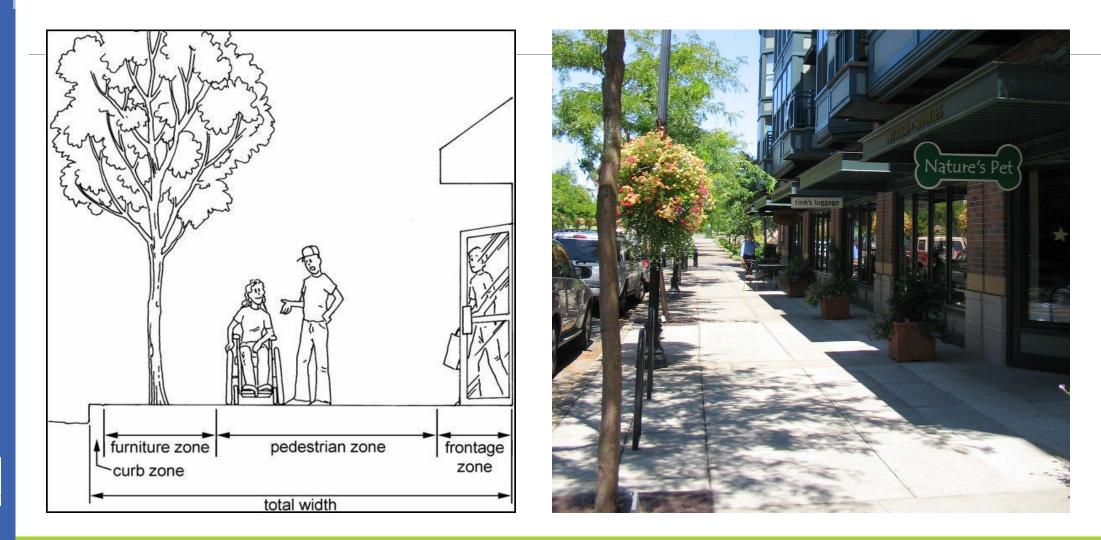
Pedestrian Suitability

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Santa Monica Pedestrian Action Plan

Sidewalks





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Graphic: FHWA Vegetation Control for Safety, 2007

Crossings

Full signal, Minneapolis







Effective Wayfinding







MARTA wayfinding, Atlanta

Atlanta – Buford Highway (before)





Atlanta – Buford Highway





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Bicyclist Access

Wayfinding (and safe routes)







Near LA Metro Silver Line, Los Angeles

LA Metro Bike Map





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LA Metro - North Hollywood Station

TriMet MAX Orange Line – Milwaukie

Bicycle Parking at Stations and Stops







MARTA Station in Atlanta

Metro Transit Station in Minneapolis

Bicycle Parking at Stations and Stops







SE Tacoma Avenue Station, TriMet MAX Orange Line

Bicycle Parking at Stations and Stops: Alternatives





SE Park Avenue Station, TriMet MAX Orange Line



Bikehub at El Monte Station, Los Angeles

Bikes on Transit: Buses

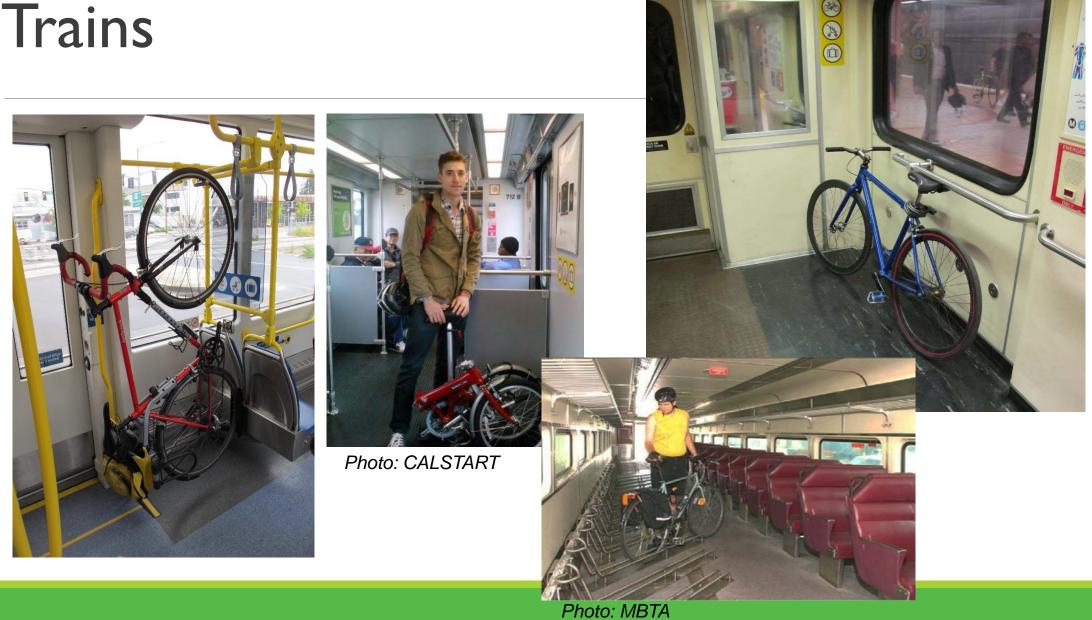








Bikes on Transit: Trains



530



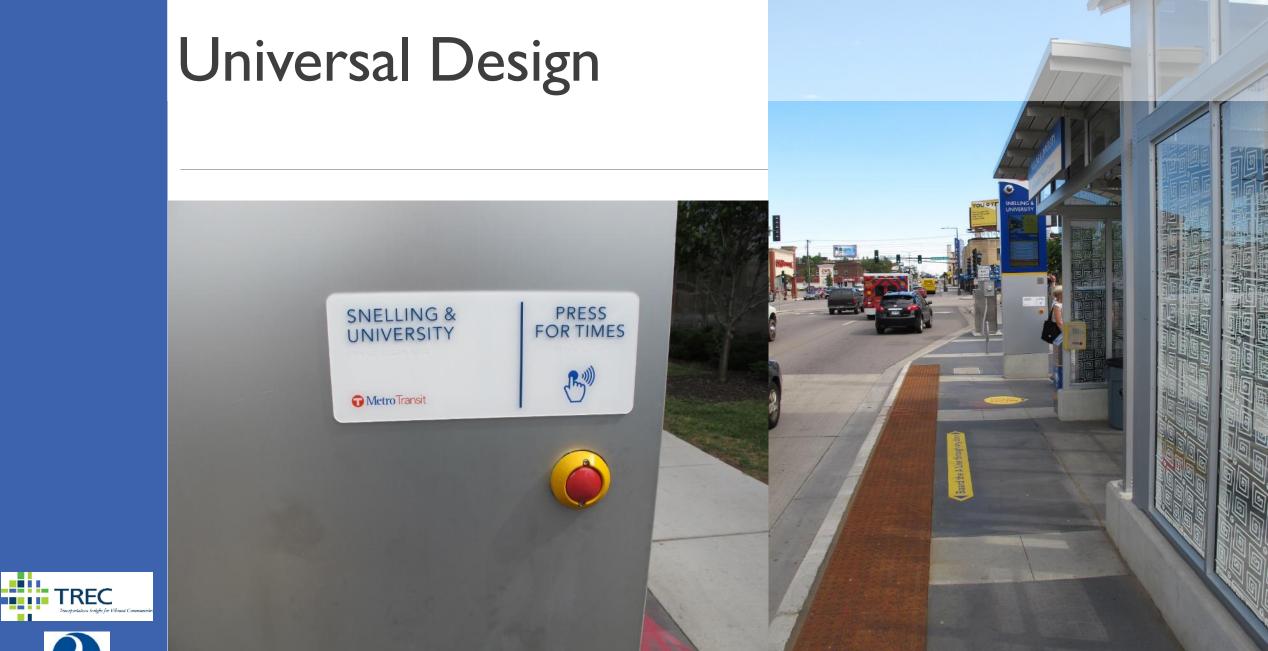


At the Stop/Station: Comfort, Safety, and Access



North Hollywood Red Line BRT stop

Culver City Expo Line Stop



P F T A

A Line Rapid Bus stop, St. Paul

Twin Cities – A Line stop features

B



Platform areas are distinguished by a dark gray concrete pattern.

Some stations have sidewalk-level **light fixtures** to provide a safe, well-lit environment. Fixtures will match existing lights in the surrounding area.

Benches at stations provide a place to sit.

Every station has **bike parking loops.**

textured warning strip to keep passengers safely away from the curb while the bus approaches. Many stations also feature **raised curbs** for easier boarding.

Source: metrotransit.org/a-line-faq

What will stations look like after construction is complete?

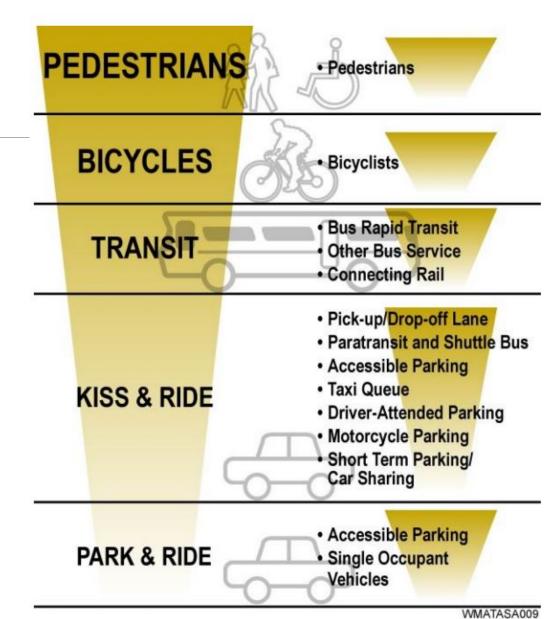
Planning and Implementation

Agency Priorities and Culture

Prioritize walking and bicycling for transit access

Clarify agency policies and staffing

Leading by example



TREC Transportations forigits for Vibrant Commander



Transit Access Mode Hierarchy (WMATA Station Site and Access Planning Manual)

Interagency Collaboration

Agency / Organization	Roles	
MPOs	Convening; Agenda Setting ; Capacity Building; Long Range Planning; Regional Planning;	
Transit Agency	Convening; Agenda Setting ; Service Integration; Facilities Planning; Station Access Planning	
Cities, Counties	Bike/Ped Route Planning and Implementation	
BIDs, Foundations, Partners	Marketing; Fundraising; Corridor Planning and Programming	





Funding

🖉 😃 U.S. Department of Trans 🗙

← → C ③ www.fhwa.dot.gov/environment/bicycle_pedestrian/funding/funding_opportunities.cfm

Pederal Highway Administration Planning Environment Real Estate

Office of Planning, Environment, & Realty (HEP)

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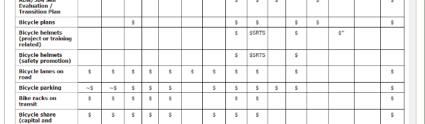
Bicycle and Pedestrian Program

equipment: not

Legislation	$\underline{FHWA} \rightarrow \underline{Environment} \rightarrow \underline{Bicvde} \text{ and } \underline{Pedestrian} \underline{Funding}$				
Funding	Pedestrian and Bicycle Funding Opportunities				
Guidance					
Resources	U.S. Department of Transportation Transit, Highway, and Safety Funds				
	Revised August 12, 2016				
State Coordinator and FHWA Division Coordinator	This table indicates potential eligibility for pedestrian and bicycle projects under U.S. Department of Transportation surface transportation funding programs. Additional restrictions may apply. See notes and basic program requirements below, and see program guidance for detailed requirements. Project sponsors should fully integrate nonmotorized accommodation into surface transportation projects. Section 1404 of the Fixing America's Surface Transportation (FAST) Act modified 23 U.S.C. 109 to require federally-funded projects on the National Highway System to				
Each State has a <u>Biovole and</u> <u>Pedestrian Coordinator</u> , and each FHWA Division office has a point of					

FHWA Headquarters Contact For more information, please contact <u>Dan Goodman</u>, 202-366-9064.

erica's Surface Transportation (FAST) Act modified 23 U.S.C. 109 to require federally-funded projects on the National Highway System to consider access for other modes of transportation, and provides greater design flexibility to do so. Pedestrian and Bicycle Funding Opportunities: PDF Version 📅 Pedestrian and Bicycle Funding Opportunities / U.S. Department of Transportation Transit, Highway, and Safety Funds Key: \$ = Funds may be used for this activity (restrictions may apply), $\$^* =$ See program-specific notes for restrictions. \sim \$ = Eligible, but not competitive unless part of a larger project. Activity or Project TIGER TIFIA FTA ATI CMAQ HSIP NHPP STBG TA RTP SRTS NHTSA NHTSA FLTTP PLAN 405 Access enhancements to public transportation (includes benches, bus pads) ŝ ADA/504 Self \$ Evaluation / Transition Plan Bicycle plans ŝ \$ ŝ \$ \$ **Bicycle helmets** #SRTS <</p> Ś ÷*







http://www.fhwa.dot.gov/environment/bicycle_ped estrian/funding/funding opportunities.cfm

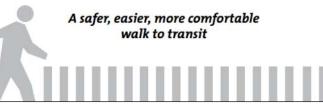


http://www.advocacyadvance.org/docs/FirstMile LastMile August2014 web.pdf

Pedestrian access plans

- Sidewalks
- Crossings
- Stop/stations access points/locations
- Seating, shelter, and lighting









TriMet conducted a Pedestrian Network Analysis to develop "an objective, data-driven system for prioritizing places around the region where pedestrian infrastructure investments will provide safer and more comfortable access to transit".

Bicycle access plans

- Bicycle network connections
- Parking at stop locations
- Onboard accommodations for bicycles

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	2208			
bö				
BART Bicycle Plan Modeling Access to Transit				
Eise	July 2012 Funded with a grant from the Caltrans Statewide Transit Planning Studies program Elsen Letunic in association with Fehr & Peers and Nelson/Nygaard			





BART sought to "retool its stations and approach to access planning to attract thousands more bikes than cars to the system each day" which reduces the need to build costly auto parking, bolsters ridership, and encourages public and environmental health.

First Mile Last Mile Plans

Improving conditions for pedestrians and cyclists in the areas around the origin and destination stops







LA Metro's plan introduces "The Pathway," a "transit access network designed to reduce the distance and time it takes people to travel from their origins to stations and from stations to destinations, while simultaneously improving the user experience"

Thanks to everyone who provided time and expertise, including staff at the following agencies:

Atlanta Regional Commission Metropolitan Council (Twin Cities) Southern California Association of Governments North Central Texas Council of Governments Bay Area Rapid Transit Charlotte Area Transit System Honolulu Area Rapid Transit Lane Transit District (Eugene, OR) Los Angeles County Metropolitan Transportation Authority Metropolitan Atlanta Rapid Transit Authority Massachusetts Bay Transit Authority Regional Transportation District (Denver) Sound Transit (Seattle) Tri-County Metropolitan Transportation District (Portland) Valley Metro (Phoenix)

Washington Metropolitan Area Transit Authority City of Atlanta, GA City of Los Angeles, CA City of Long Beach, CA City of Santa Monica, CA City of Charlotte, NC City of Minneapolis, MN City of Portland, OR Washington, DC Hennepin County, MN Montgomery County, MD Atlanta Beltline, Inc. **Tualatin Parks and Recreation District** Great Rides Bicycle Share (Fargo, ND)





Download the manual

Full manual available at:

https://www.transit.dot.gov/research-innovation/manual-

pedestrian-and-bicycle-connections-transit or tinyurl.com/PedBikeManual

One page summary available at: <u>https://www.transit.dot.gov/research-innovation/manual-</u> <u>pedestrian-and-bicycle-connections-transit-summary</u>



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THANK YOU!

PORTLAND STATE UNIVERSITY PROJECT TEAM:

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