

Regional Planning: Implementing a Regional Trail and Bikeway Network

Dallas - Fort Worth Region

Kevin Kokes, AICP



Overview

NCTCOG Overview

Overview of the Active Transportation Program and Regional Projects

- Regional Veloweb and On-Street Bikeways
- Highlighted Regional Trail Corridors
- Complete Streets
- Routes to Rail Stations
- Pedestrian / Bike Safety
- Safety and Education Campaign
- Stakeholder Training and Workshops
- Trail Data Collection and User Counts

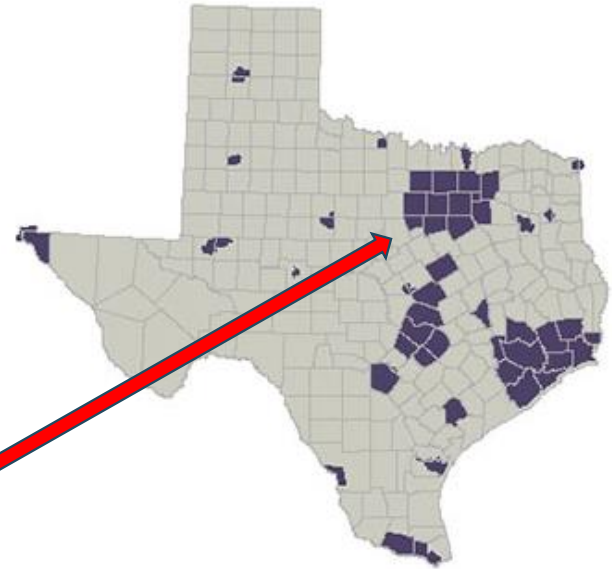


Texas Metropolitan Planning Organizations

Metropolitan areas
with populations of
greater than
50,000

25 in Texas
420 in the US

- Abilene
- Amarillo
- Austin
- Beaumont-Port Arthur
- Brownsville
- Bryan-College Station
- Corpus Christi
- **Dallas-Fort Worth**
- El Paso
- Harlingen-San Benito
- Hidalgo County
- Houston-Galveston
- Killeen-Temple
- Laredo
- Longview
- Lubbock
- Permian Basin

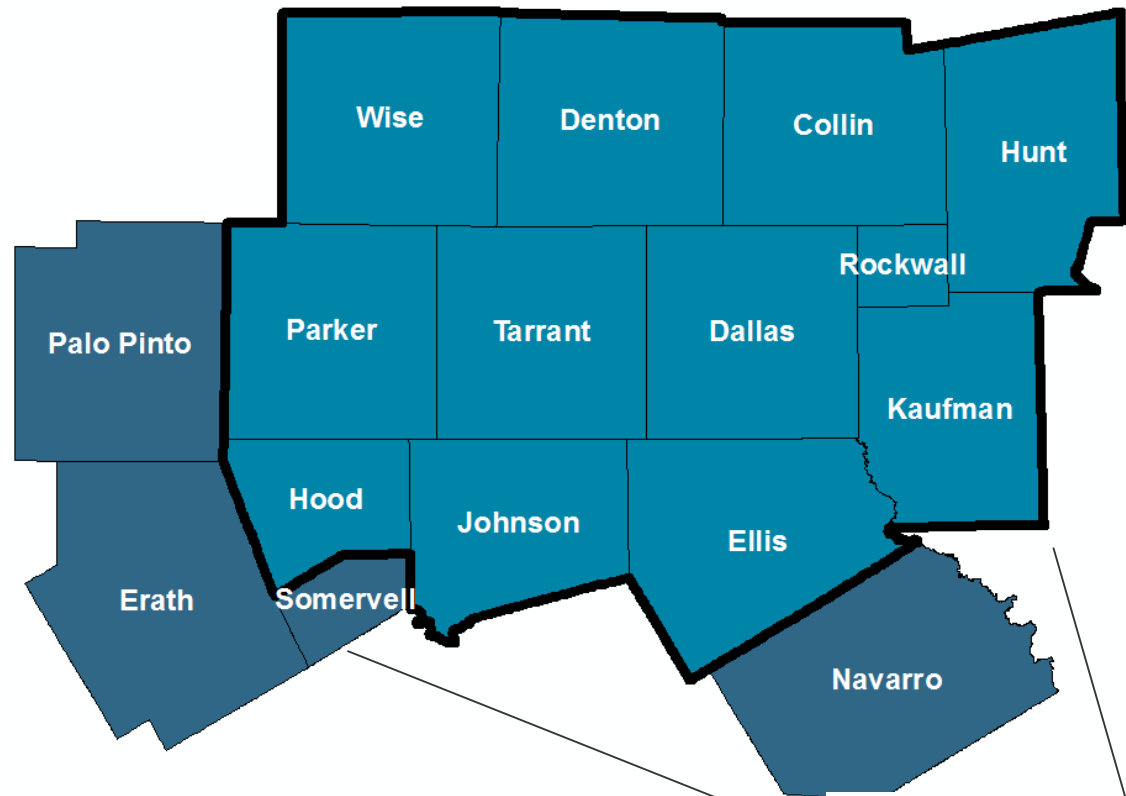


- San Angelo
- San Antonio-Bexar County
- Sherman-Denison
- Texarkana
- Tyler
- Victoria
- Waco
- Wichita Falls



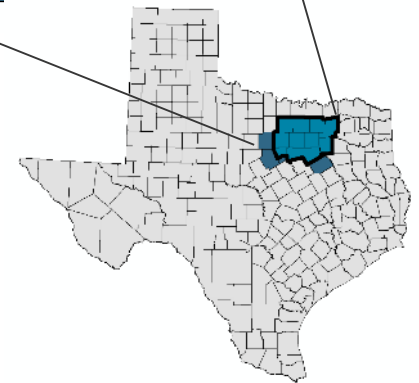
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MPO for the
Dallas-Fort Worth
Region



NCTCOG Region = 16 counties

Metropolitan Planning Area
12 Counties = 9,441 sq. mi.



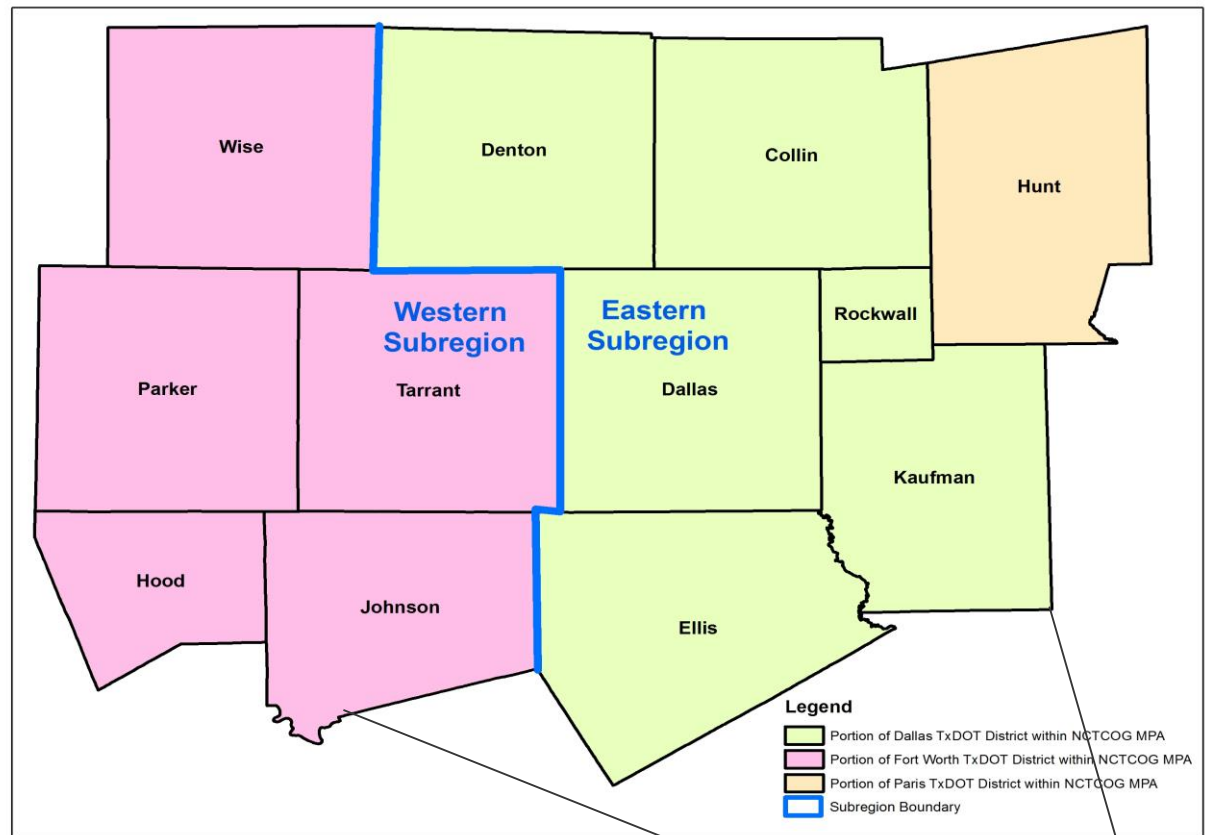
Land area larger than the states of
New Hampshire, New Jersey, Connecticut,
Delaware, and Rhode Island.



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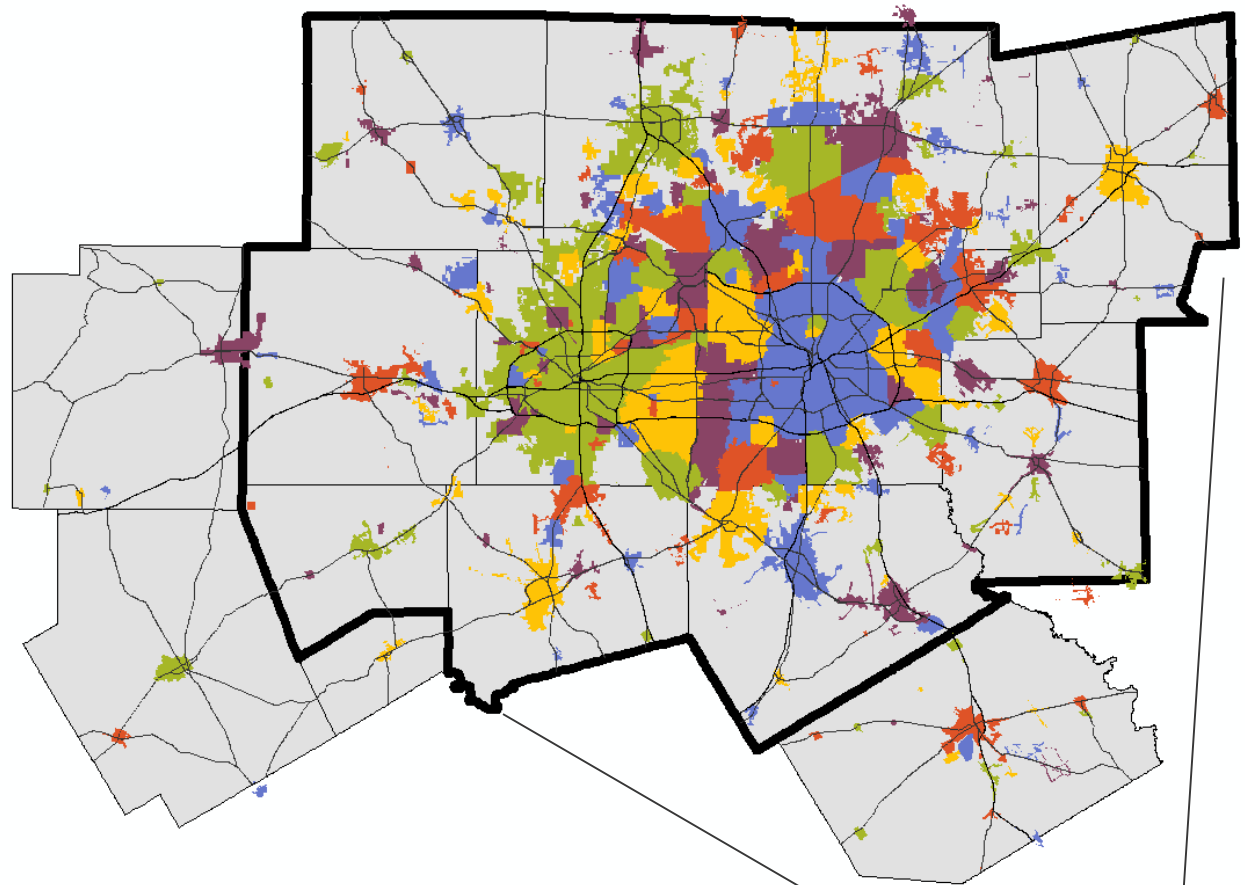
Portions of Three TxDOT Districts

Dallas District
Fort Worth District
Paris District



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MPO for the Dallas-Fort Worth Region



Metropolitan Planning Area (MPA)

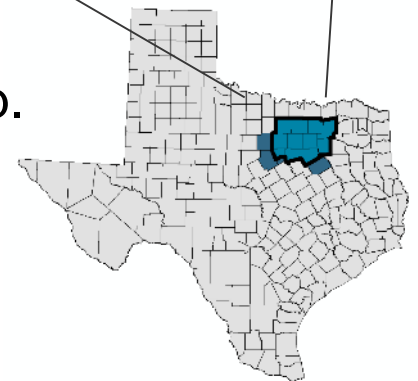
209 cities

13 cities larger than 100,000 pop.

MPA Population

2017 Estimate = 7.2 million

2040 Forecast = 10.7 million



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Planning for All Ages and Abilities

(Designing for Ages 8 to 80)



Children



Walk



Commute



Adults

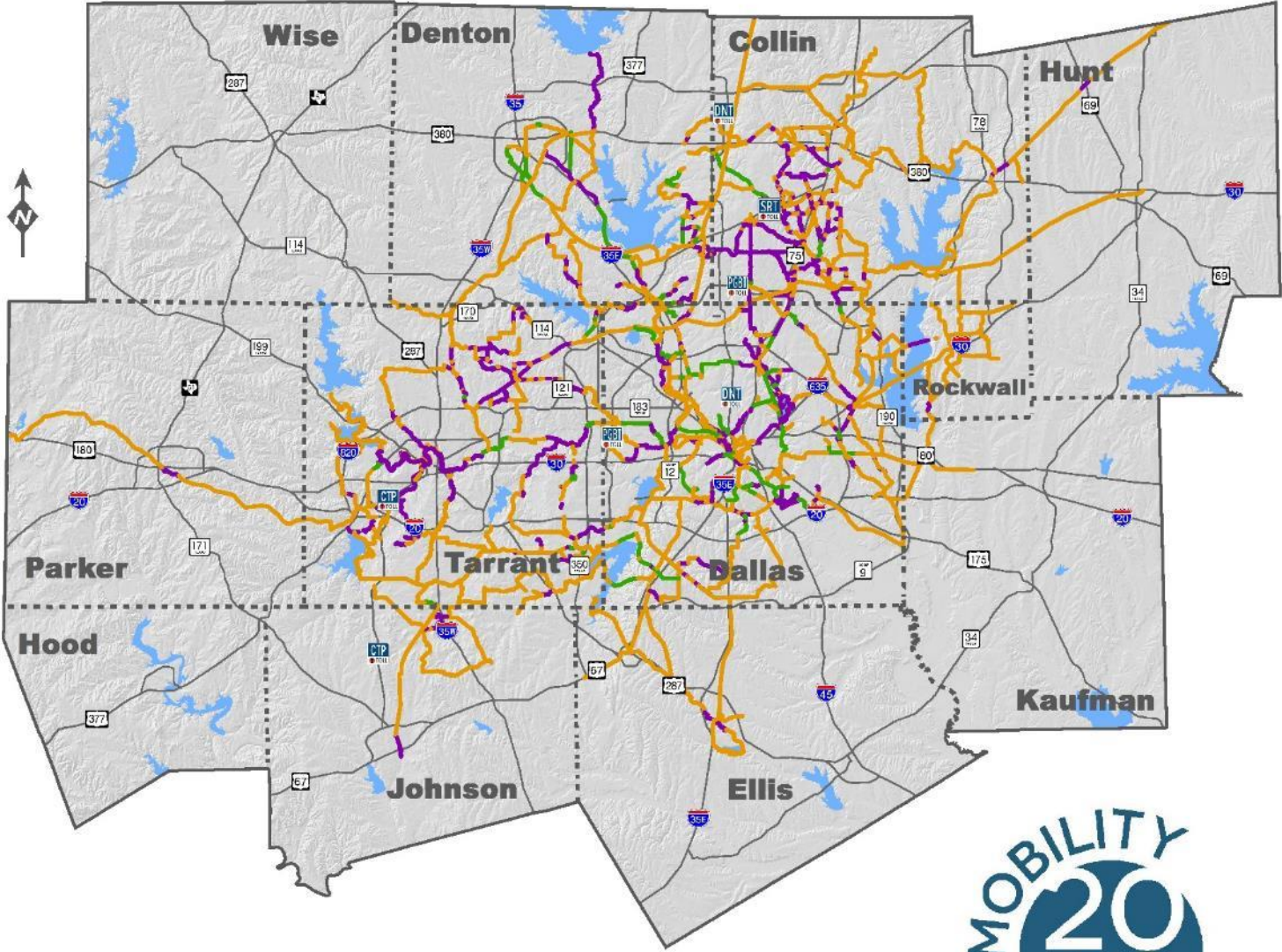


Fitness

Regional Veloweb

Facility Status

	Existing	442 Miles
	Funded	146 Miles
	Planned	1,296 Miles
Total		1,884 Miles
	Major Roads	



Dallas CBD



Fort Worth CBD



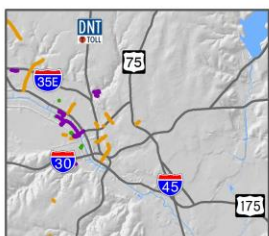
Community Shared-Use Paths

Community Paths*

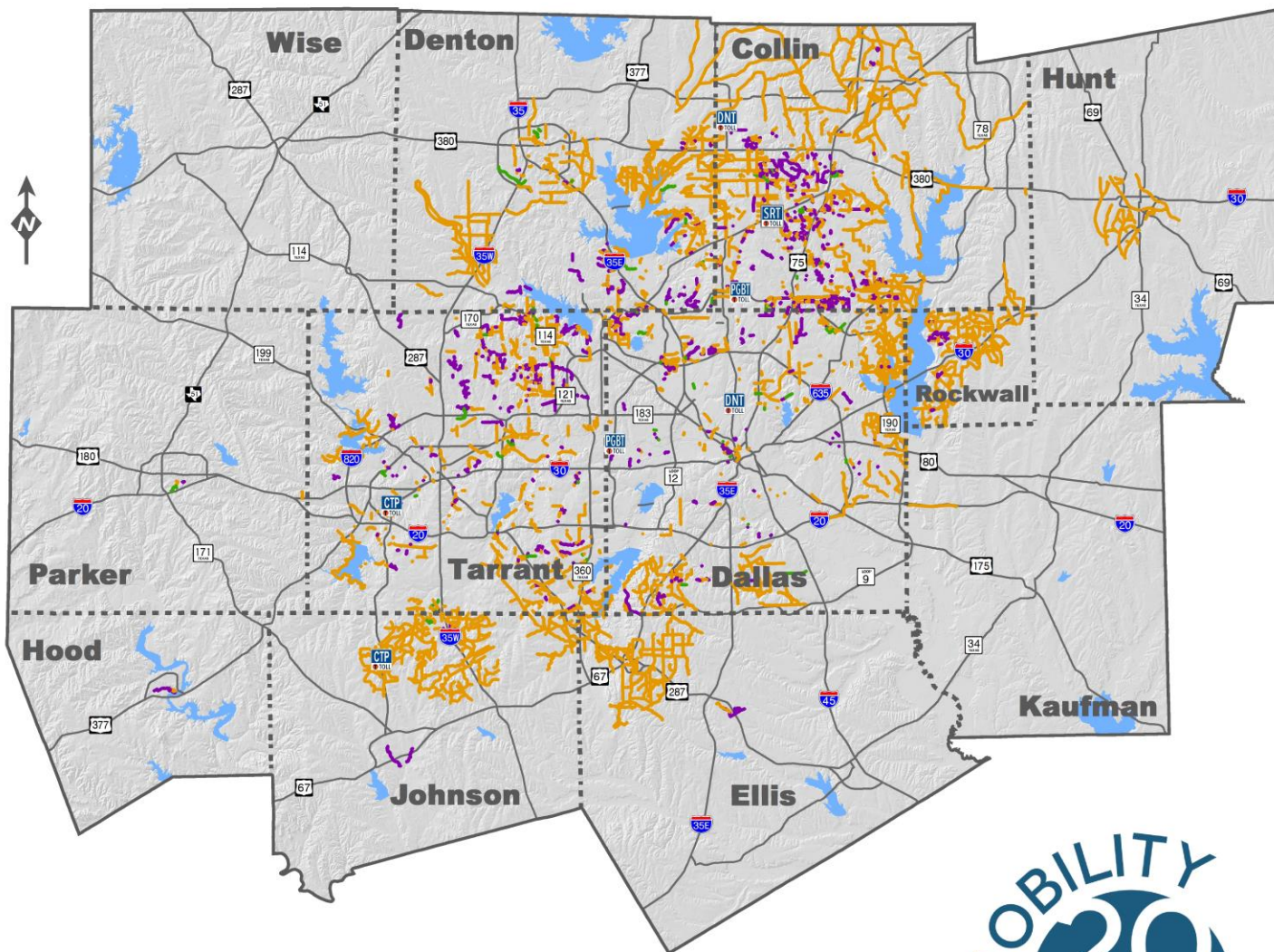
- Existing 333 Miles
- Funded 42 Miles
- Planned 1,999 Miles
- Total 2,374 Miles
- Major Roads



Dallas CBD



Fort Worth CBD



*The Community Shared-Use Paths supplement the Regional Veloweb network. These paths do not include recreational paths/loops, private paths, equestrian or nature trails, or wide sidewalks less than 10-feet in width.

Facility recommendations indicate transportation need. Corridors specific alignment, design, and operational characteristics for these paths will be determined through ongoing project development.

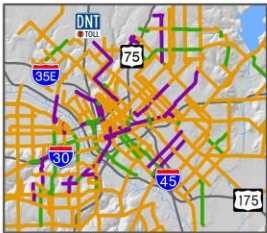
On-Street Bikeway Network

On-Street Bikeways*

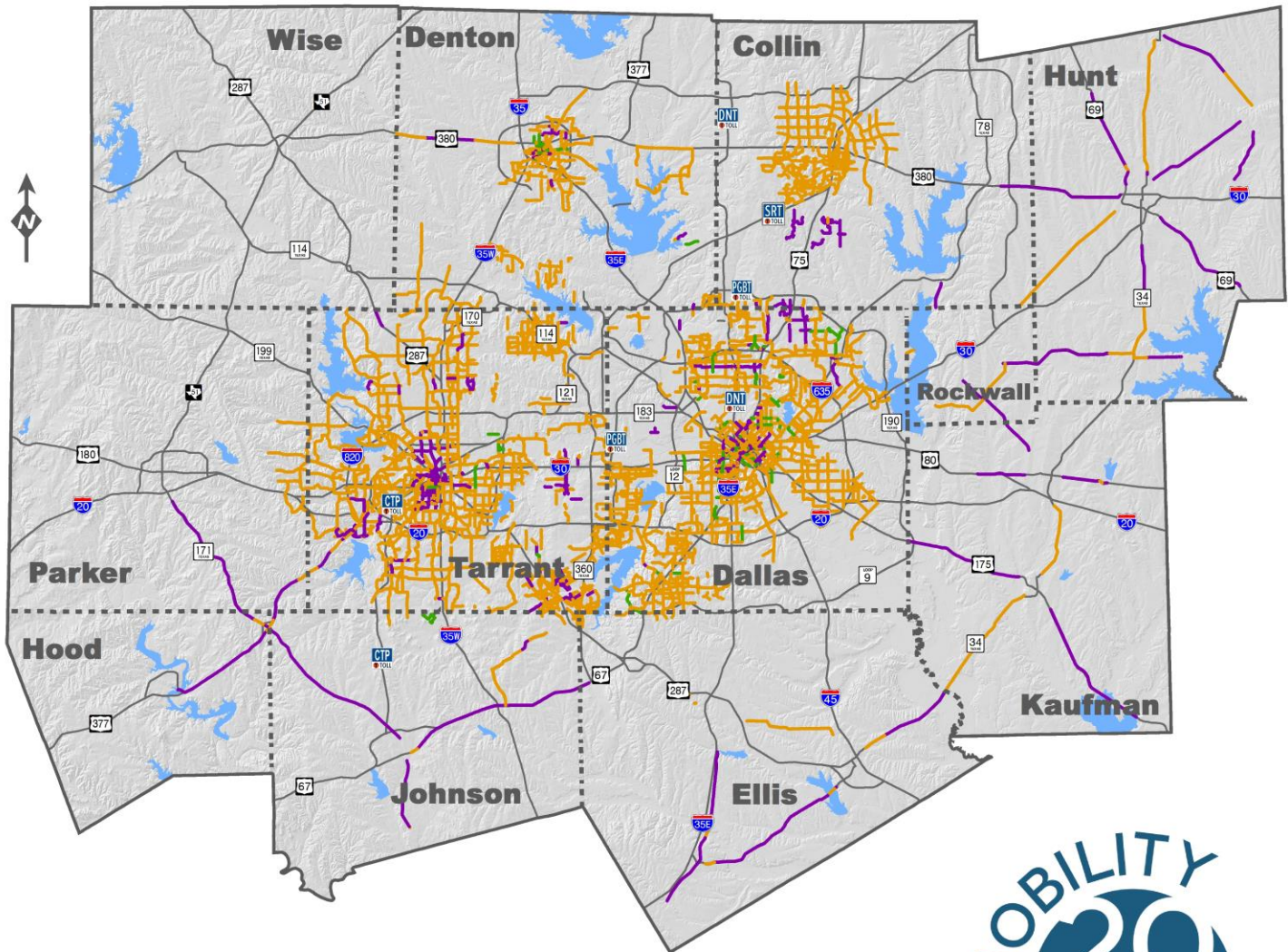
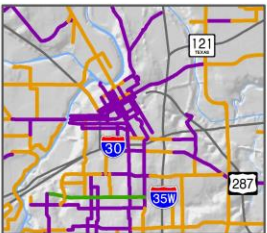
- Existing 448 Miles
- Funded 71 Miles
- Planned 2,261 Miles
- Total 2,780 Miles
- Major Roads



Dallas CBD



Fort Worth CBD



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March 2016

*On-street bikeways in the urbanized area include: separated or protected bike lanes/cycle tracks, bike lanes, marked shared lanes, and marked bicycle boulevards.

On-street bikeways in the urbanized area do not include: signed bike "routes", signed "share the road", unmarked wide outside lanes, or signed wide shoulders. The use of wide shoulders are included on various roadways linking rural communities outside of the urbanized area.

Facility recommendations indicate transportation need. Corridors specific alignment, design, and operational characteristics for the network will be determined through ongoing project development.



Paved shoulders
in rural areas provide
opportunities to travel
between small towns

Legend

Regional Trails

2040 Regional Veloweb

Trails and Bikeways

Off-Street, Existing

Off-Street, Funded

Off-Street, Planned

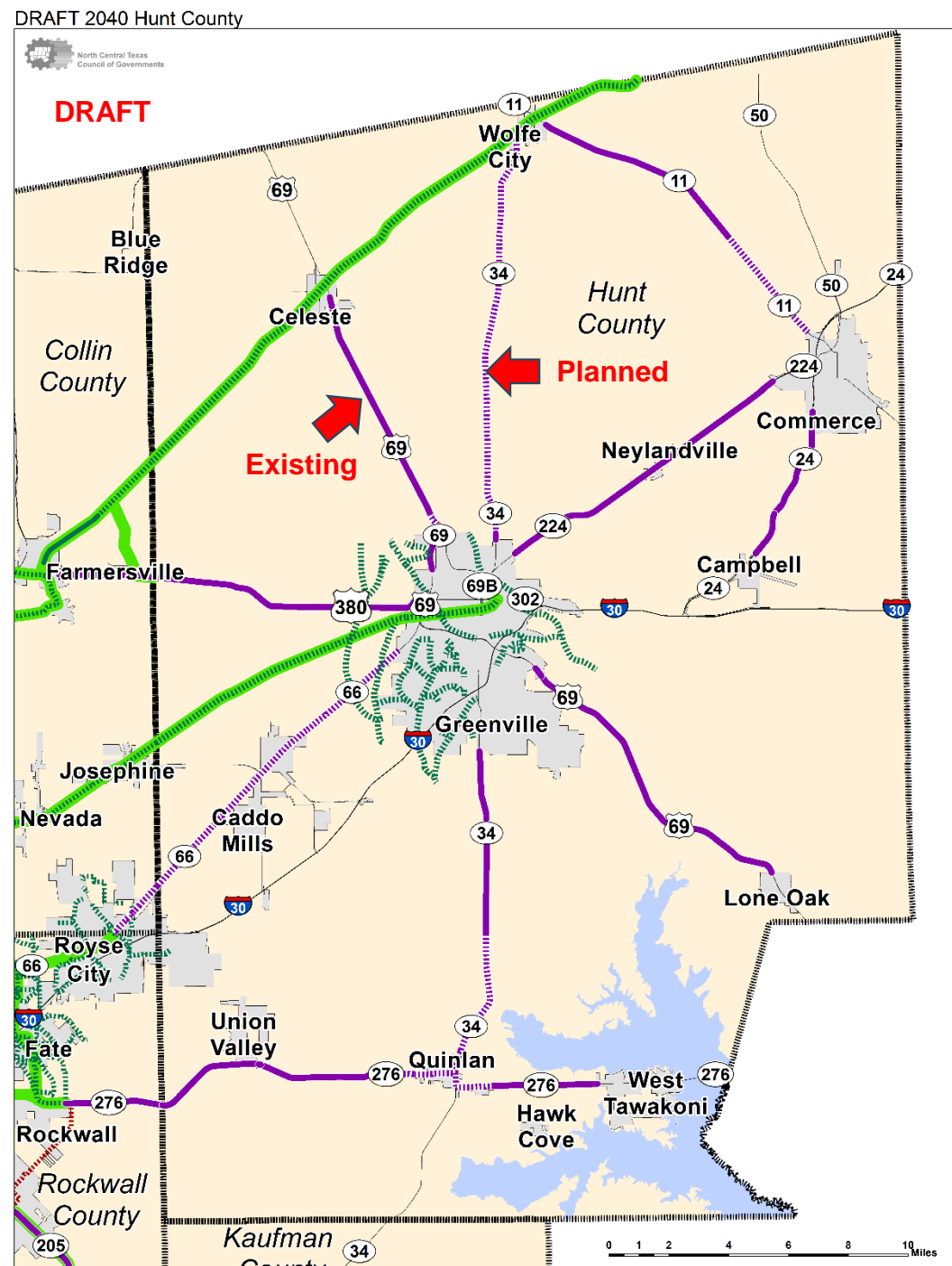
On-Street, Existing

On-Street, Funded

On-Street, Planned

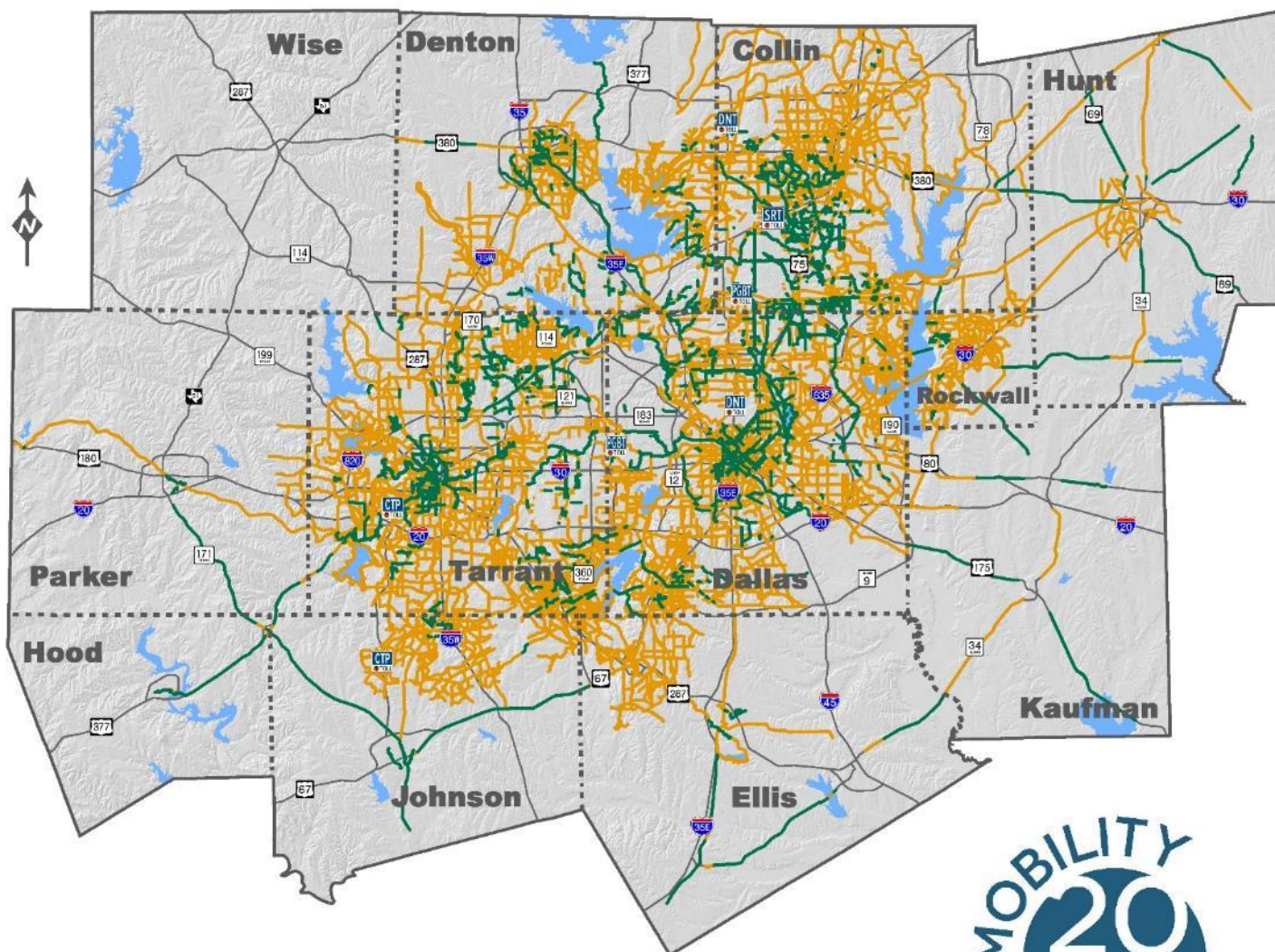
Rural Paved Shoulders, Existing

Rural Paved Shoulders, Planned



Combined Regional Veloweb, Community Paths and On-Street Bikeway Network

- Existing/Funded*
1,482 Miles
- Planned*
5,556 Miles
- Total 7,038 Miles
- Major Roads



Dallas CBD



Fort Worth CBD



*The Regional Veloweb and Community Shared Use Path network does not include recreational paths/loops, private paths, equestrian or nature trails, or wide sidewalks less than 10-feet in width.

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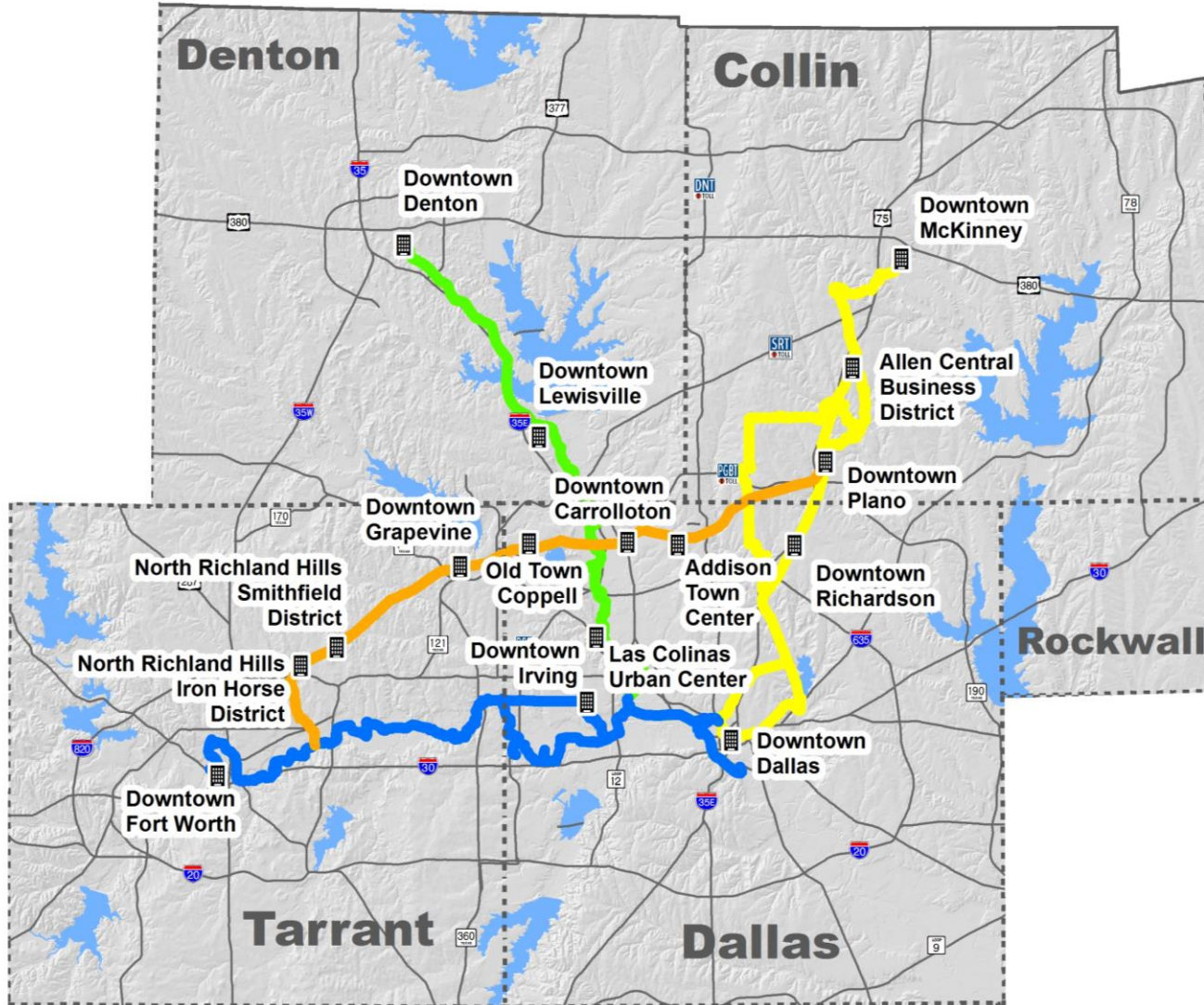
REGION OF CHOICE







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February 2016

Highlighted Regional Trail Corridors

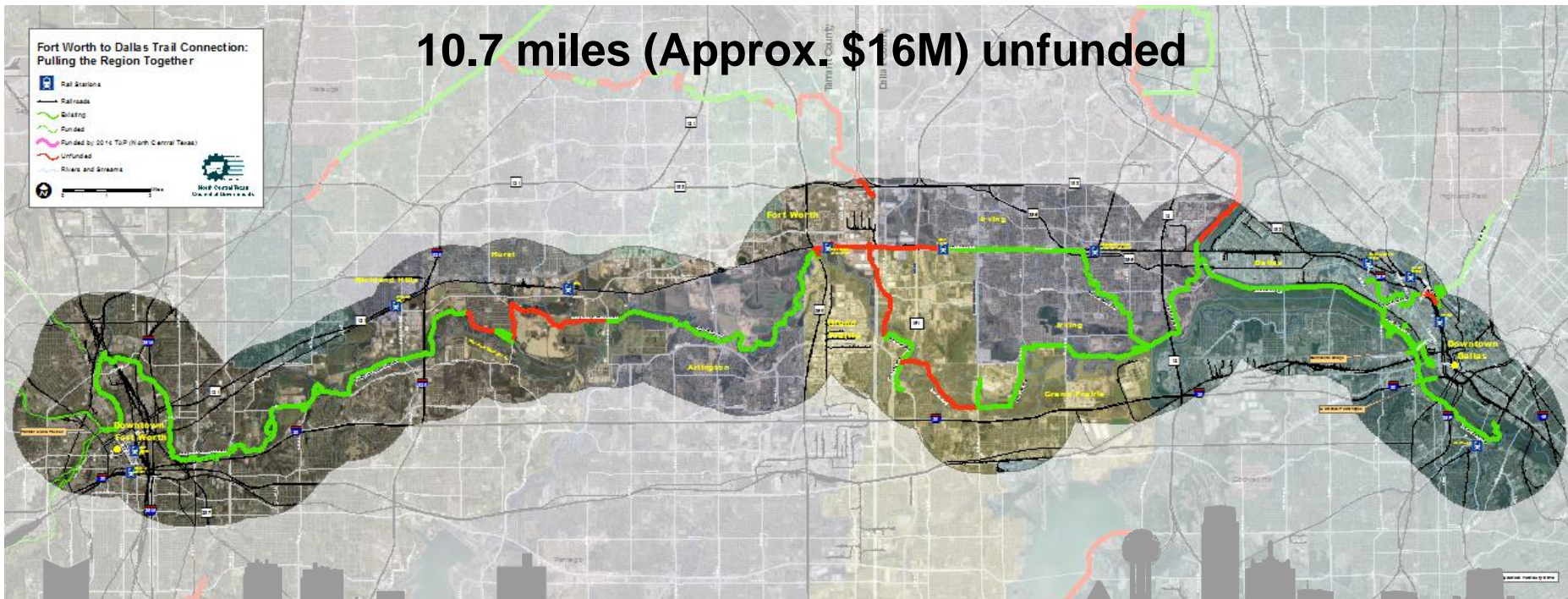


-  Cotton Belt Regional Trail Corridor
-  Fort Worth to Dallas Regional Trail Corridor
-  Dallas to McKinney Regional Trail Corridor
-  Denton to Dallas Regional Trail Corridor

Fort Worth to Dallas Regional Trail



Existing and Funded	17.7 miles	7.4 miles	4.5 miles	13.1 miles	10.1 miles
Planned and Unfunded	5.7 miles	0	3.5 miles	1.5 miles	0



Multimodal Complete Streets

There is no singular design prescription for Complete Streets;

each one is unique and responds to its community context.

What are Complete Streets?



Source: City of Dallas

They are designed and operated to enable safe access for all users, including pedestrians, bicyclists, motorists and transit riders of all ages and abilities.

Source: Smart Growth America



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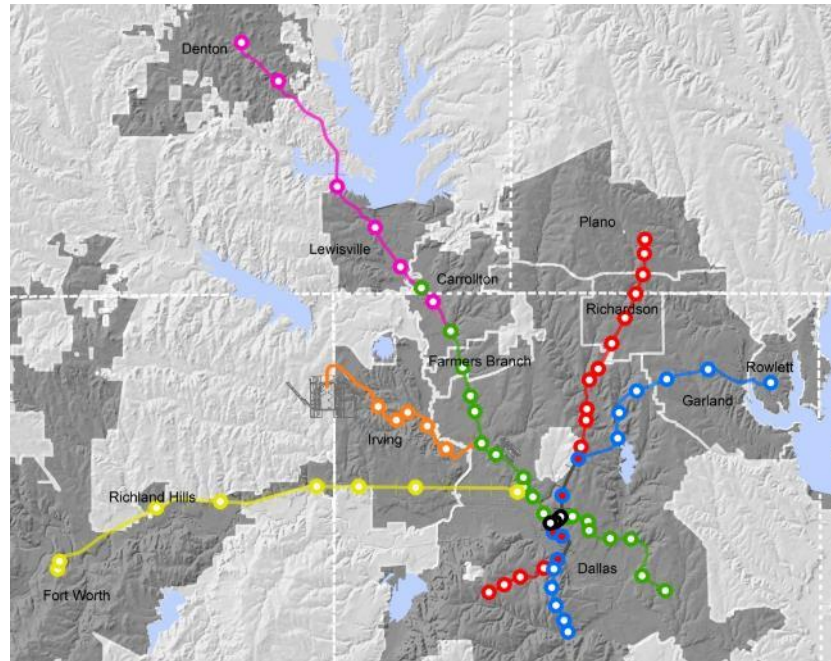
Pedestrian and Bicycle Routes to Rail Stations

Distance and gaps in the actual “Routes” to stations (walksheds)

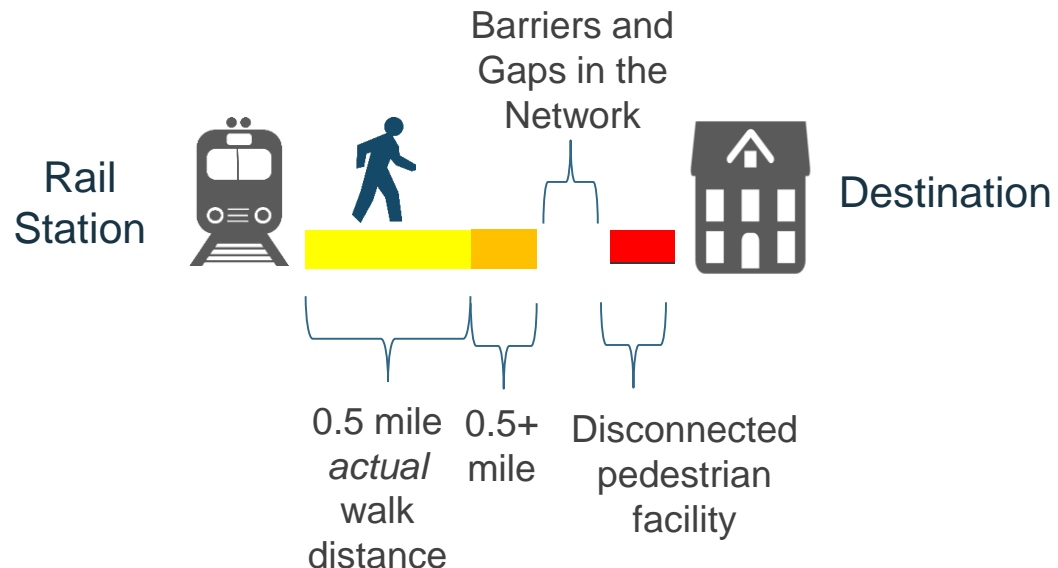
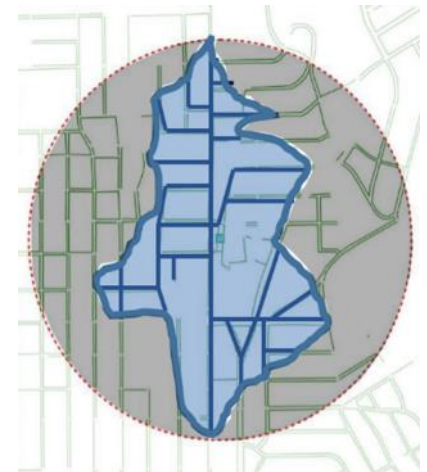
nctcog.org/RoutesToRail



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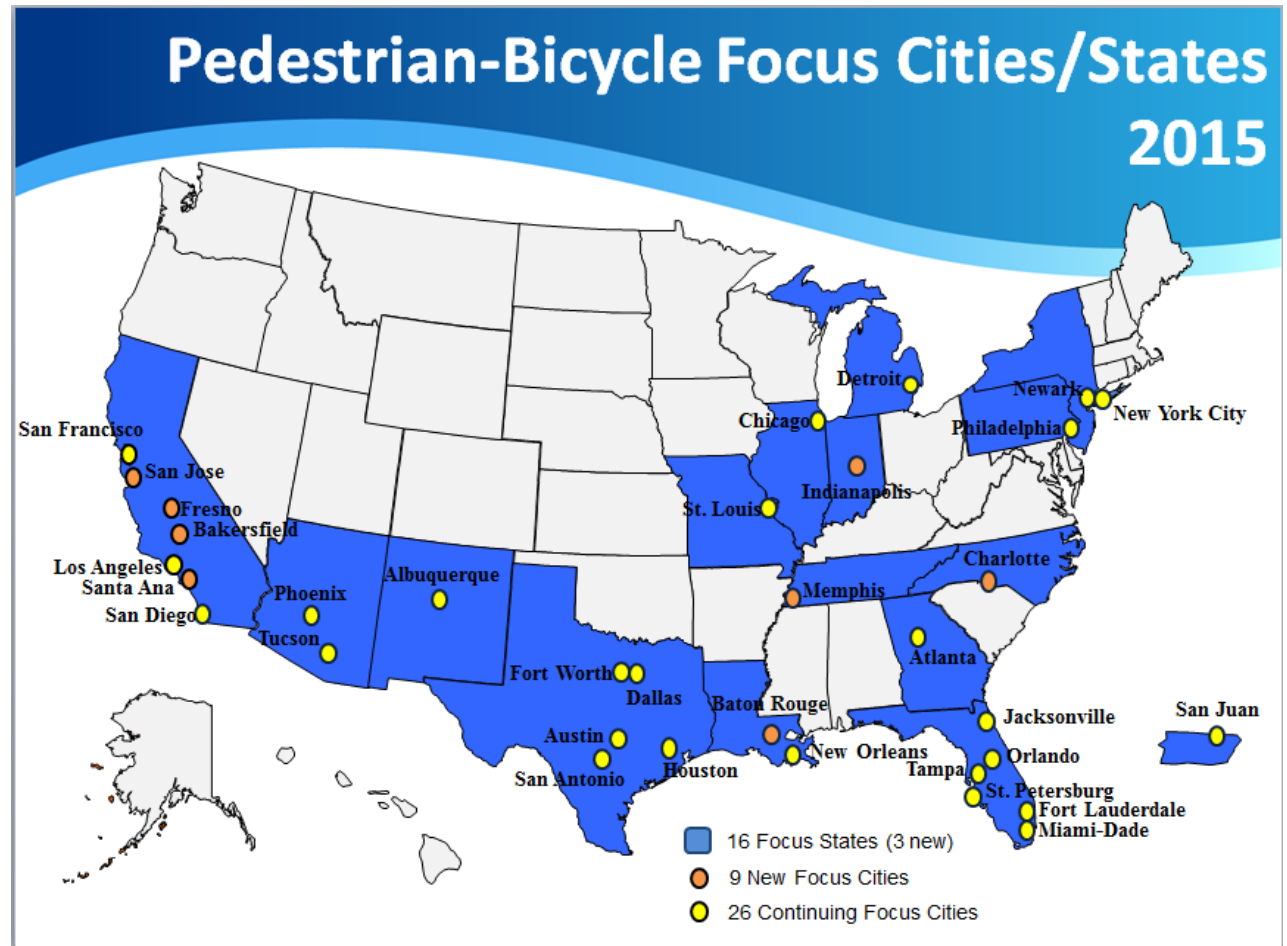


“A true walkable radius does not typically exist.”



FHWA Pedestrian- Bicycle Safety Focus States and Cities

States and cities
with the highest
pedestrian
fatalities and/or
fatality rates



Pedestrian Fatality Rates* (Per 10k walking commuters)

#41: Texas

Top 50 Cities*

#26 Austin
#37 Houston
#44 San Antonio
#47: Dallas
#50: Fort Worth



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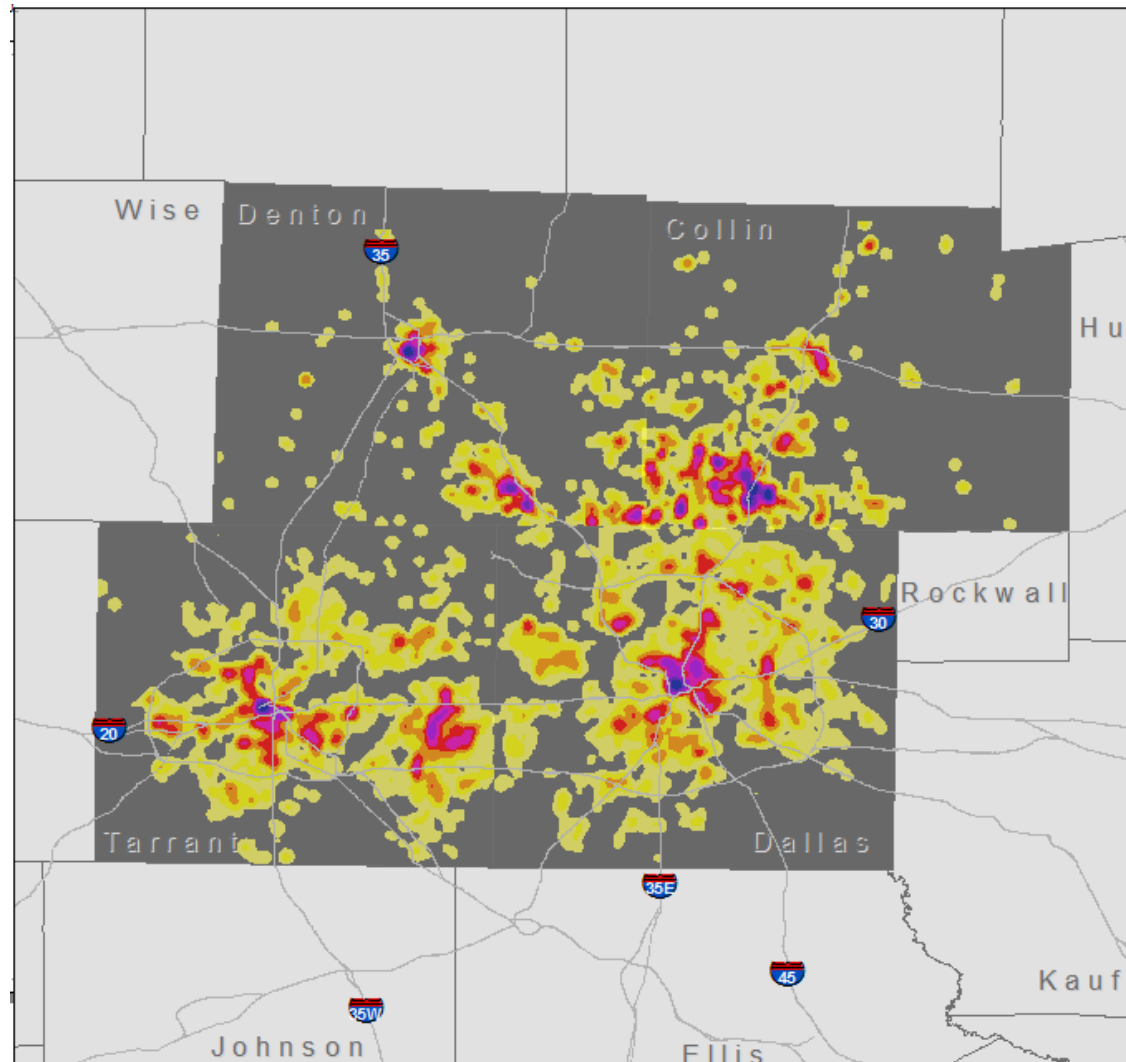
*Source: Bicycling and Walking in the
United States: 2014 Benchmarking Report

Regional Bicycle/ Pedestrian Crash Data

Bicycle and
Pedestrian Crash
Density
(2010-2014)

Legend

- No Crash Density
- Low Crash Density
- Medium Crash Density
- High Crash Density
- Very High Crash Density
- Highway



0 5 10 20 Miles



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Regional Safety and Education Campaign

LOOKOUT
TEXANS

BIKE
WALK
DRIVE
SAFELY

LOOKOUTTEXANS.ORG

- Promotes bicycle and pedestrian safety
- Rights and responsibilities of all road users
- Additional targeted messaging for:
 - School-age children
 - University students
 - Spanish speaking residents



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Education and Training for Stakeholders in the Region

Workshops and Training

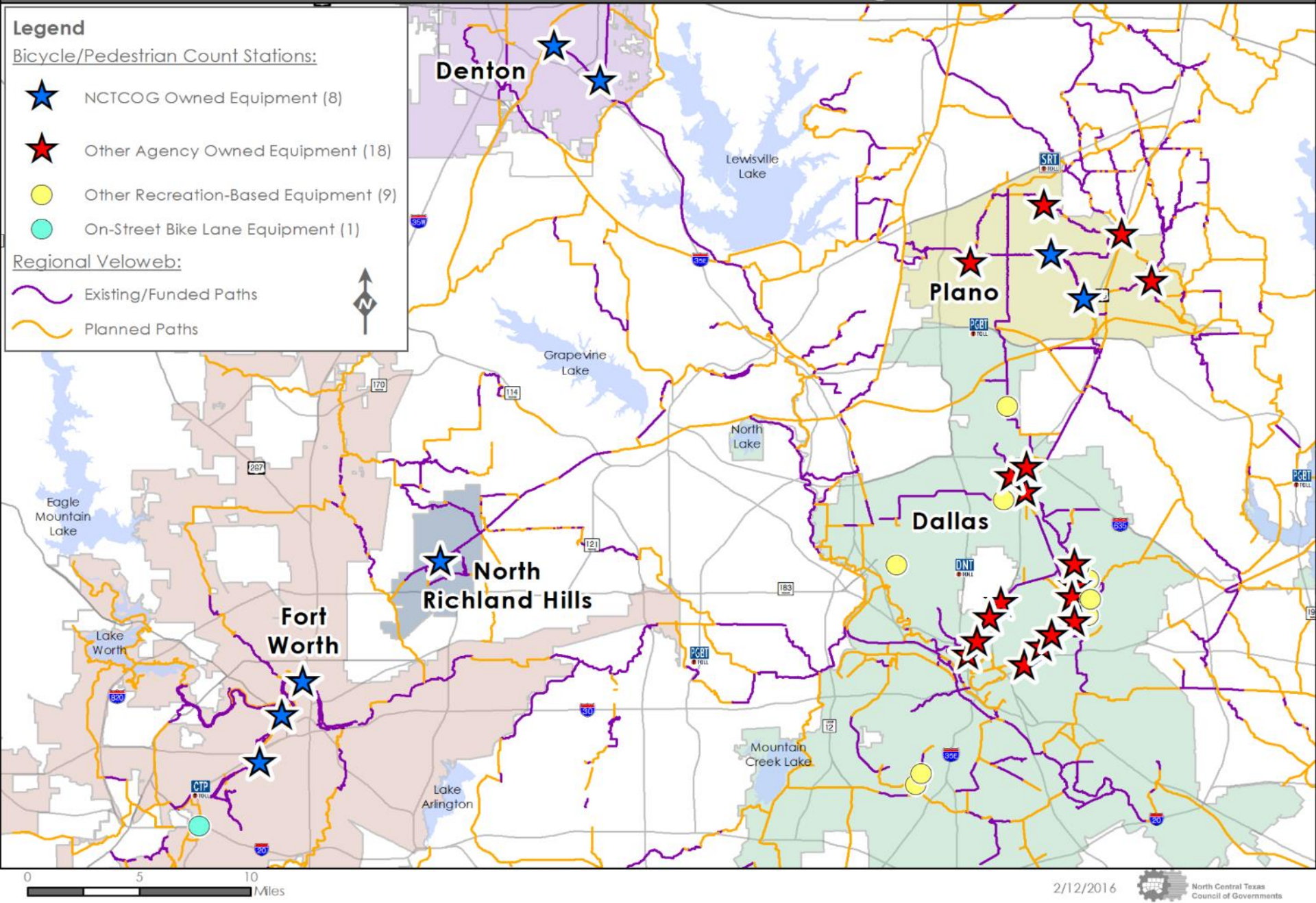
- Designing for Pedestrian Safety
- Pedestrian Safety Assessments
- ADA / Transition Plans
- AASHTO Bicycle Guide
- NACTO Urban Bikeways
- Complete Streets
- Separated Bike Lanes and Protected Intersections
- Modern Roundabouts

Regional Participants

- Engineers, Planners, Traffic and Public Works Staff
- TxDOT, City / County Staff, Transportation Agencies
- Case Study Site Visit Exercises



Bicycle and Pedestrian Count Stations in the North Central Texas Region



Bicycle and Pedestrian Traffic Count Program

nctcog.org/bikepedcountdata

2015 Data Overview

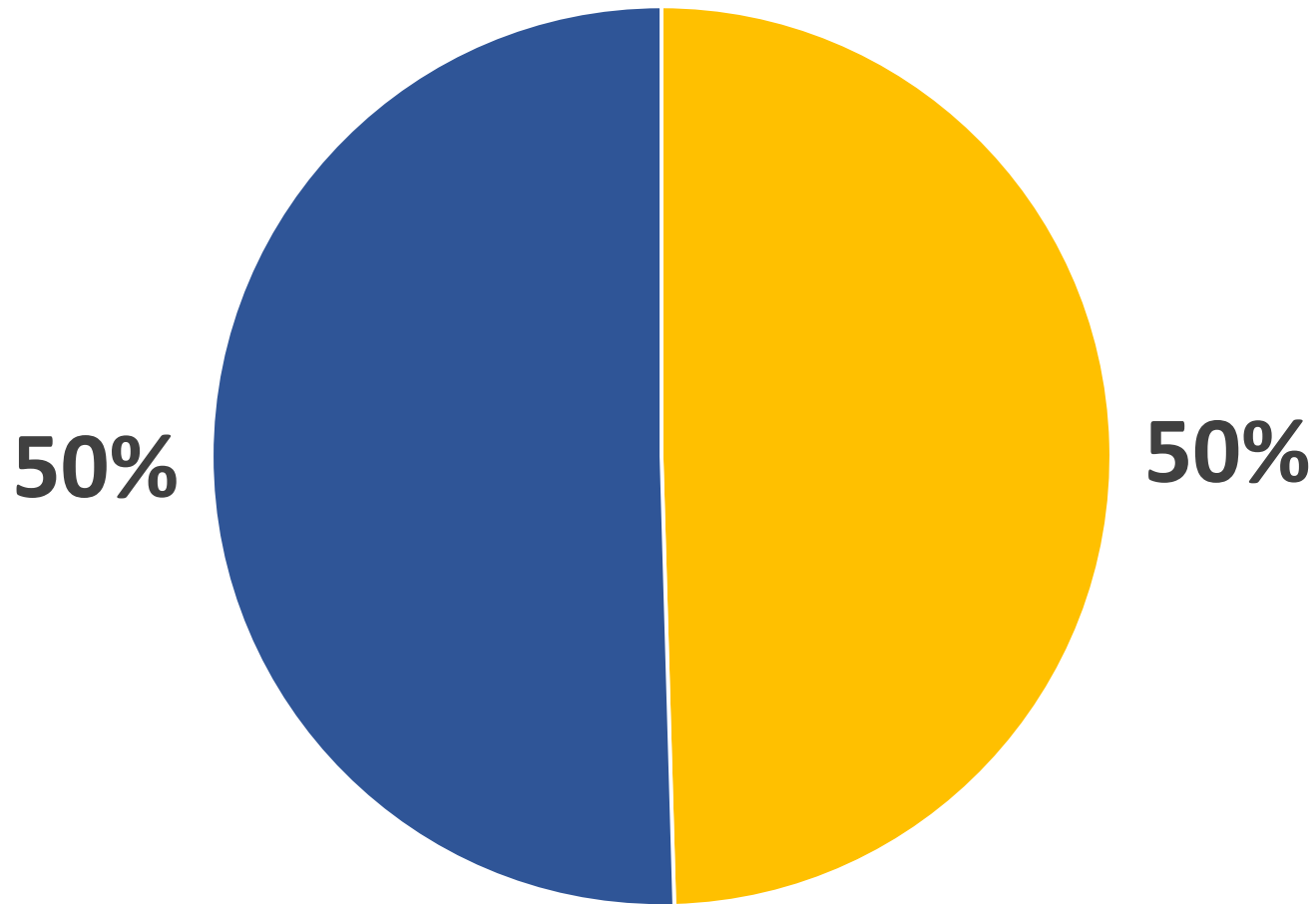
26 Locations

**4.2 Million
Bicyclists and Pedestrians Counted**



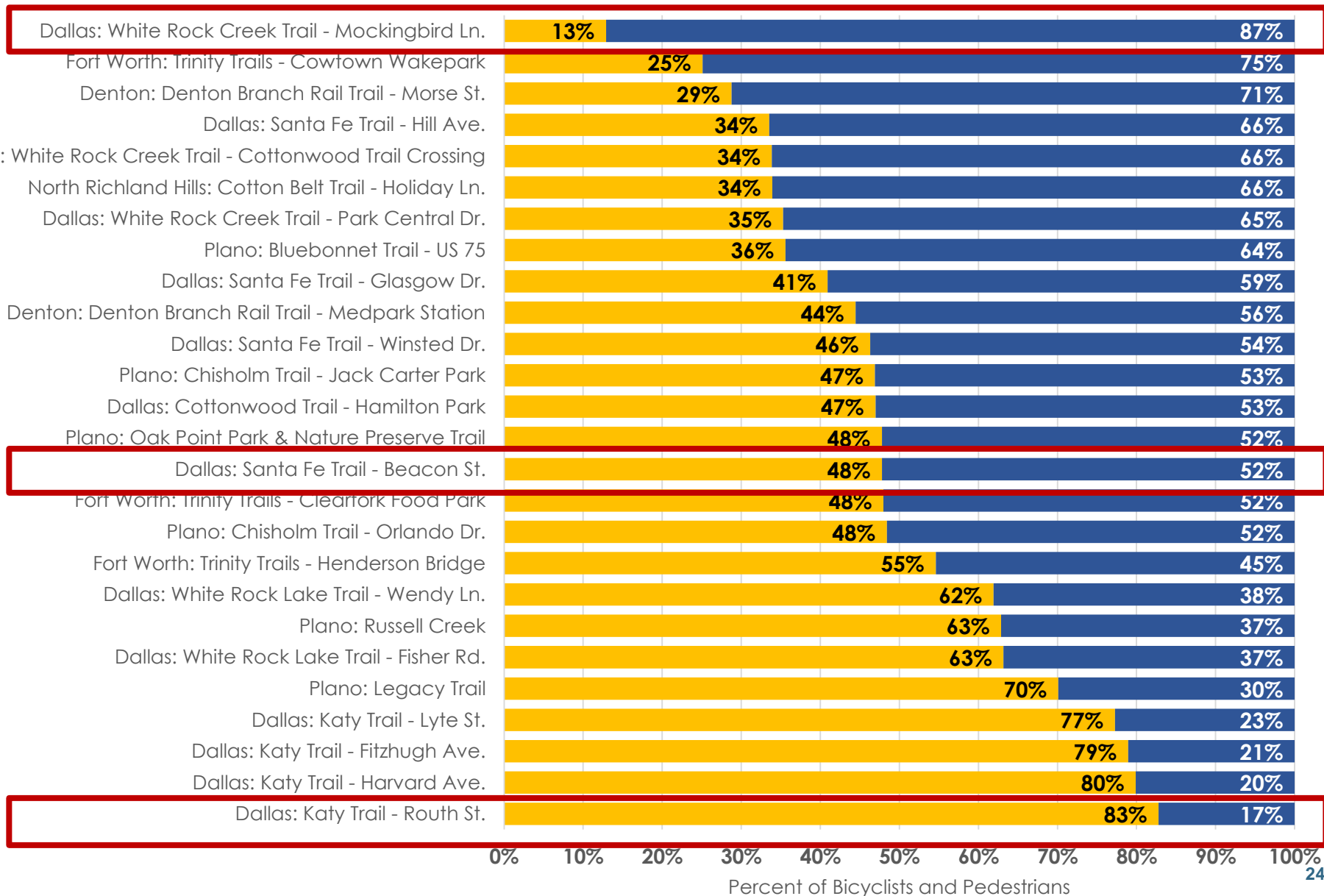
Regional Average Mode Share Split of Count Stations in the North Central Texas Region

■ Pedestrians ■ Bicyclists



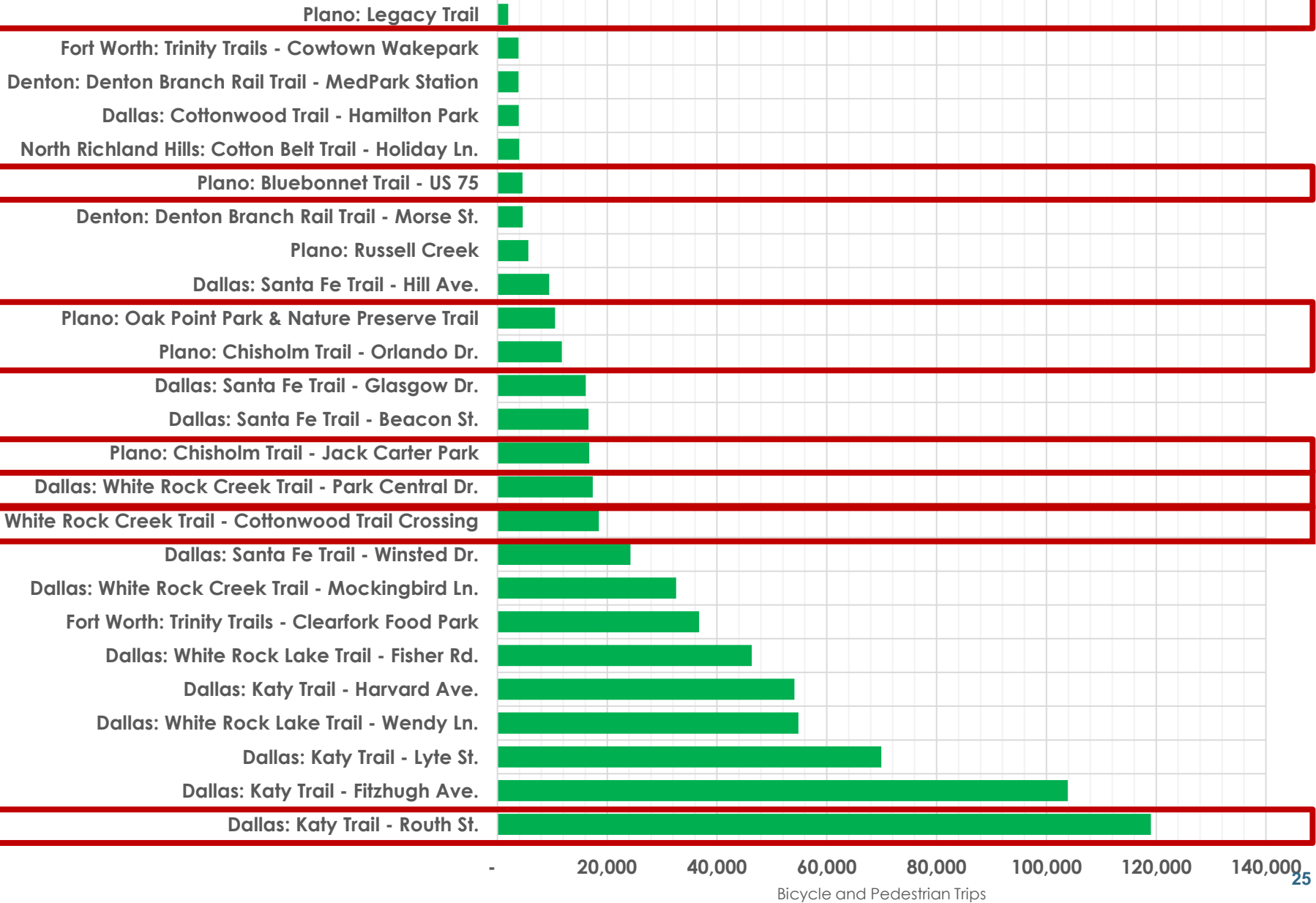
Mode Share Split by Count Station (2015)

■ Pedestrians ■ Bicyclists



Total Bicycle and Pedestrian Traffic by Count Station

October 2015



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