Texas Department of Transportation

MEETING AGENDA

TxDOT Bicycle Advisory Committee (BAC)
April 16, 2018 | 10:00 A.M.
200 East Riverside Drive, Bldg. 200, Classroom Room E (RA200E)
Austin, Texas 78704
Teleconference Available for BAC Members

1.	Call to Order.
2.	Safety briefing.
3.	Approval of minutes from January 22, 2018, BAC meeting. (Action)
4.	Report from BAC Chair.
5.	Report from TxDOT's Public Transportation Division Director regarding statewide bicycle/pedestrian matters.
6.	Discussion on the Strategic Direction Report for TxDOT's Bicycle Program. (Action)
7.	Presentation on the North Central Texas Council of Governments' (NCTCOG) 2017 Regional Bicycle Opinion Survey Results.
8.	Update from committee members on local and statewide issues.
9.	Public comment – public comments will only be accepted in person.
10.	Discussion of agenda items for future BAC meetings. (Action)
11.	Adjourn. (Action)

I certify that I have reviewed this document and that it conforms to all applicable *Texas Register* filing requirements.

CERTIFYING OFFICIAL: Joanne Wright, Deputy General Counsel, (512) 463-8630

AGENDA ITEM 6

Strategic Direction Report Implementation Monitoring

FOCUS AREAS AND RECOMMENDED ACTIONS/TASKS		TASK STATUS
A	**Expand the bikeway network**	**In-progress**
A.1	**Identify existing bikeways**	**In-progress**
A.1.a	Solicit information from TxDOT districts, MPOs, counties, and cities (see F.3.c)	**In-progress**
A.1.b	Create a bikeway map with attributes (see F.3.b)	**Not started**
A.1.c	Identify data needs for future planning	**In-progress**
A.2	**Prioritize statewide network/corridors**	**In-progress**
A.2.a	Develop multidisciplinary team to review existing bikeways	**Not started**
A.2.b	Establish methodology for identifying needed bikeways	**In-progress**
A.2.c	Establish criteria for bikeway inclusion as "state route"	**In-progress**
A.2.d	Identify additional data needed	**In-progress**
A.2.e	Establish statewide bikeway network	**In-progress**
A.2.f	Identify needs/gaps in bikeway network	**In-progress**
A.2.g	Identify needed projects	**Not started**
B	**Build safer and better bicycle and pedestrian accommodations**	**Not started**
B.1	**Establish multidisciplinary team**	**Not started**
B.2	**Review design guidelines**	**Not started**
B.2.a	Identify bicycle safety hot spots and areas of concerns	**Not started**
B.2.b	Review current design guidelines	**Not started**
B.2.c	Review TxDOT's planning and design processes	**Not started**
B.2.d	Review other design guidelines (NACTO, Complete Streets, etc.)	**Not started**
B.2.e	Make recommendations on improvements to current design guidelines	**Not started**
B.2.f	Develop "typical sections" for roadway types	**Not started**
C	**Provide training for engineers, planners, and construction staff**	**Not started**
C.1	**Develop training program**	**Not started**
C.1.a	Review TxDOT needs	**Not started**
C.1.b	Review best practices	**Not started**
C.1.c	Develop training materials	**Not started**
C.1.d	Identify individuals to provide training	**Not started**
C.1.e	Identify training opportunities (ex: short course, webinars, etc.)	**Not started**
C.1.f	Schedule training	**Not started**
D	**Educate the public on safer driving, bicycling, and walking**	**On-going**
D.1	**Finalize production and dissemination of materials**	**Complete**
D.1.a	Create Bicycle Safety Guide	**Complete**
D.1.b	Update Bicycle Safety Guide every 5 years *(due 2021?)*	**On-going**
D.1.c	Handle-bar hanger	**Complete**
D.1.d	Update Handle-bar hanger every 5 years *(due 2020?)*	**On-going**
D.1.e	Identify additional material needs, produce, disseminate	**Not started**
D.2	**Identify and update information on TxDOT website**	**Complete**
D.2.a	Continuously update website content	**On-going**
D.3	**Develop statewide email list**	**In-progress**
D.3.a	Create and disseminate quarterly eBlast with bicycle information	**Not started**
D.4	**Provide support for educational and outreach programs**	**On-going by others**
D.5	**Work with law enforcement organizations to develop bike/ped curriculum**	**On-going by others**

Strategic Direction Report Implementation Monitoring

FOCUS AREAS AND RECOMMENDED ACTIONS/TASKS		TASK STATUS
E	**Encourage people to walk and bicycle**	**Not started**
E.1	**Lead statewide Bike to Work Day**	**Not started**
E.1.a	Contact MPOs to discuss statewide event coordination	**Not started**
E.1.b	Develop statewide workgroup for Bike to Work Day	**Not started**
E.1.c	Develop Bike to Work Day webpage and materials	**Not started**
E.2	**Work with state tourism office to link to interactive bike map**	**Not started**
E.3	**Develop support materials that encourage bicycling and walking**	**Not started**
E.4	**TxDOT Transportation Demand Management Program (TDM)**	**Not started**
E.4.a	Identify level of administrative support for TDM	**Not started**
E.4.b	Identify Employee Coordinators	**Not started**
E.4.c	Develop TxDOT employee TDM toolbox	**Not started**
E.4.d	Work with TxDOT to disseminate information on the program statewide	**Not started**
F	**Develop statewide management systems for bicycle and pedestrian information**	**In-progress**
F.1	**Obtain and analyze safety data**	**Not started**
NEW	Develop Statewide Bicycle and Pedestrian Safety Plan	**Not started**
F.1.a	Produce briefing materials	**Not started**
F.2	**Develop research proposal for bike/ped counting (methods, devices, repository)**	**Complete**
F.2.a	Consultant research	**In-progress**
F.2.b	Implement recommendations	**Not started**
F.3	***Identify* existing statewide bikeways**	**Not started**
F.3.a	Establish bikeway terminology and attributes to be used statewide	**In-progress**
F.3.b	Create map with attributes for bikeway facilities (see A.1.b)	**Not started**
F.3.c	Solicit bikeway information from TxDOT districts, MPOs, counties, and cities (see A.1.a)	**Not started**
F.3.d	Identify data needed for future planning	**Not started**
F.3.e	Update map	**Not started**
F.4	**Work with TxDOT staff to include bicyclists and pedestrians in travel surveys and modeling**	**Not started**
G	**Fund more bicycle and pedestrian projects**	**In-progress**
G.1	**Transportation Alternatives Program (TA)**	**Complete**
G.1.a	TxDOT Transportation Commission selects TA projects	**Complete**
G.1.b	Call for projects	**Complete**
G.2	**Identify projects, programs, or policies for pilot programs**	**In-progress**
G.2.a	Evaluate effectiveness of pilots and determine whether a statewide roll-out is in order	**Not started**
G.3	**Identify additional sources of funding**	**In-progress**
G.3.a	Publish information on funding sources for nonmotorized transportation	**Not started**

STRATEGIC DIRECTION REPORT FOR TXDOT'S BICYCLE PROGRAM

Status Update

What is the Strategic Direction Report?

- The Strategic Direction Report provides TxDOT with:
  - Short-term guidance in developing the bicycle program and related pedestrian elements
  - A reference document for staff, policy makers and stakeholders
- The Strategic Direction Report is a policy-level document, it does NOT identify specific bike/ped projects

Strategic Direction Report Status Update

- We've made progress!
- Let's review…

Strategic Direction Report Implementation Monitoring

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A.1	**Identify existing bikeways**	In-progress
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A.1.b	Create a bikeway map with attributes (see F.3.b)	Not started
A.1.c	Identify data needs for future planning	In-progress
A.2	**Prioritize statewide network/corridors**	In-progress
A.2.a	Develop multidisciplinary team to review existing bikeways	Not started
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A.2.g	Identify needed projects	Not started
B	**Build safer and better bicycle and pedestrian accommodations**	Not started
B.1	**Establish multidisciplinary team**	Not started
B.2	**Review design guidelines**	Not started
B.2.a	Identify bicycle safety hot spots and areas of concerns	Not started
B.2.b	Review current design guidelines	Not started
B.2.c	Review TxDOT's planning and design processes	Not started
B.2.d	Review other design guidelines (NACTO, Complete Streets, etc.)	Not started
B.2.e	Make recommendations on improvements to current design guidelines	Not started
B.2.f	Develop "typical sections" for roadway types	Not started
C	**Provide training for engineers, planners, and construction staff**	Not started
C.1	**Develop training program**	Not started
C.1.a	Review TxDOT needs	Not started
C.1.b	Review best practices	Not started
C.1.c	Develop training materials	Not started
C.1.d	Identify individuals to provide training	Not started
C.1.e	Identify training opportunities (ex: short course, webinars, etc.)	Not started
C.1.f	Schedule training	Not started
D	**Educate the public on safer driving, bicycling, and walking**	On-going
D.1	**Finalize production and dissemination of materials**	Complete
D.1.a	Create Bicycle Safety Guide	Complete
D.1.b	Update Bicycle Safety Guide every 5 years *(due 2021?)*	On-going
D.1.c	Handle-bar hanger	Complete
D.1.d	Update Handle-bar hanger every 5 years *(due 2020?)*	On-going
D.1.e	Identify additional material needs, produce, disseminate	Not started
D.2	**Identify and update information on TxDOT website**	Complete
D.2.a	Continuously update website content	On-going
D.3	**Develop statewide email list**	In-progress
D.3.a	Create and disseminate quarterly eBlast with bicycle information	Not started
D.4	**Provide support for educational and outreach programs**	On-going by others
D.5	**Work with law enforcement organizations to develop bike/ped curriculum**	On-going by others

Status Update – *Focus Area A*

Expand the bikeway network

A.1 Identify existing bikeways

In-progress

- ☑ 2015 Bikeway inventory (TxDOT state-maintained ROW only)
- ☑ Created TxDOT District maps identifying bikeways on state-maintained ROW
- On-going efforts to initiate Bikeway Inventory Service project with NTT Data and TxDOT's Information Management Division

NOTE: Refer to handout: A.1 is similar to F.3

A.2 Prioritize statewide network/corridors

In-progress

- ☑ Bicycle Tourism Trails Study created: analysis methodology, inclusion criteria, gap analysis, Example Network, etc.

Status Update – *Focus Area B*

Build safer and better bicycle and pedestrian accommodations

B.1 Establish multidisciplinary team — **Not started**

B.2 Review design guidelines — **Not started**

- Federal guidance is currently being updated: American Association of State Highway Transportation Officials (AASHTO) *Guide to the Development of Bicycle Facilities*, but completion date is unknown

Provide training for engineers, planners, and construction staff

C.1 Develop training programs

Not started

Status Update – *Focus Area D*

Educate the public on safer driving, bicycling, and walking

D.1	Finalize production and dissemination of materials ☑ Bicycle safety guide created (2016) ☑ Handle-bar hanger created (2016)	Complete
D.2	Identify and update information on TxDOT website ☑ Website updated (2017) ▪ Website content updates (on-going)	Complete
D.3	Develop statewide email list	Complete
D.4	Provide support for educational and outreach programs	On-going by others
D.5	Work with law enforcement organizations to develop bike/ped curriculum	On-going by others

Status Update – *Focus Area E*

Encourage people to walk and bicycle

E.1	Lead statewide Bike to Work Day	Not started
E.2	Work with state tourism office to link to interactive bike map	Not started
E.3	Develop support materials that encourage bicycling and walking	Not started
E.4	TxDOT Transportation Demand Management Program (TDM)	Not started

Develop statewide management systems for bicycle and pedestrian information

F.1 Obtain and analyze safety data — **Not started**

F.2 Develop research proposal for bike/ped counting (methods, devices, repository) — **In-progress**

- ☑ Consultant hired (TTI) and research on-going: *research to be completed by August 2018*
- ☑ Statewide Strava data purchased as part of research project

F.3 Identify existing statewide bikeways — **Not started**

- On-going efforts to initiate Bikeway Inventory Service project with NTT Data and TxDOT's Information Management Division

NOTE: Refer to handout: F.3 is similar to A.1

Fund more bicycle and pedestrian projects

G.1 Transportation Alternatives Program

Complete

- ☑ 2017 TASA call for projects resulted in 46 funded projects and over $44 million in federal funding awarded to 36 project sponsors across Texas
- ☑ Projects currently developing towards construction

G.2 Identify projects, programs, or policies for pilot programs

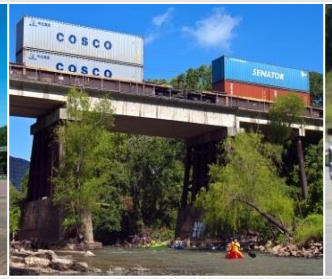
In-progress

- ☑ New projects/programs/pilots include: BikeStripe, Bike/Ped Count Equipment Loan Program, Strava data sharing program, and Bicycle Tourism Trails Study

G.3 Identify additional sources of funding

In-progress

- ☑ Funding sources analyzed and research on-going



STRATEGIC DIRECTION REPORT (SDR) FOR TXDOT'S BICYCLE PROGRAM

Potential Areas of Next Effort

Potential Areas of Next Effort

- Area 1: **Bicycle Safety**
- Area 2: **Guide for Community Bikeway Development**
- Area 3: **Bikeway Inventory**

Potential Areas of Next Effort

- Scope of Work
- Supports SDR Focus Areas
- BAC Input/Role

Scope of work:

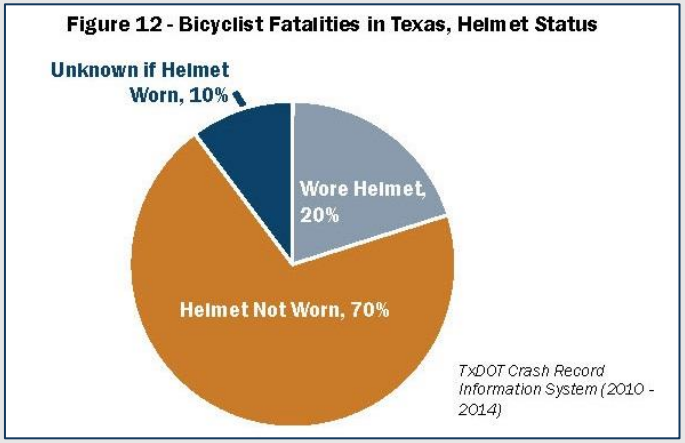
- Bicycle crash analysis
- Identification of trends/hot spots
- Potential bicycle safety strategies/countermeasures
- Policy recommendations
- Development of safety briefing materials

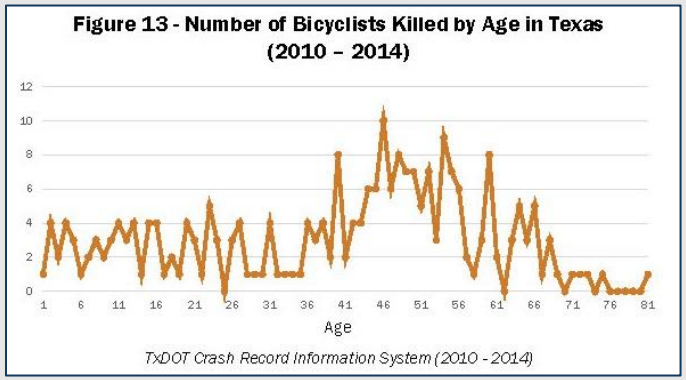
BAC Input/role:

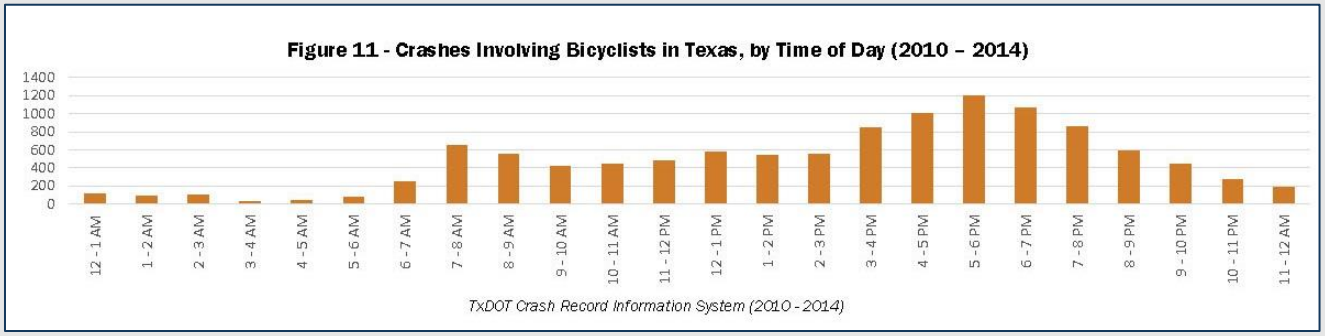
- Identify focus areas for further analysis (high-crash locations, demographics, regions, types of bikeways, crashes, or users)
- Prioritize safety strategies (education, enforcement, engineering, etc.)
- Evaluate bicycle safety countermeasures (pavement markings, intersection improvements, signage, etc.)
- Identify products and guide development of safety materials

Supports SDR Focus Areas:

- **B.2.a** – Identify bicycle safety hot spots and areas of concern (p. 36)
- **D.1.e** – Identify additional material needs, produce, disseminate to educate the public on safer driving, bicycling, and walking (p.38)
- **F.1** – Obtain and analyze safety data (p. 43)
- **F.1.a** – Produce safety briefing materials (p. 43)

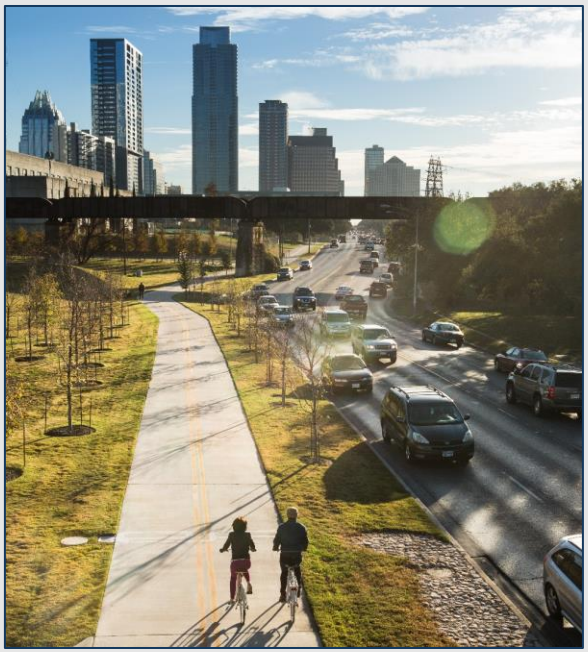






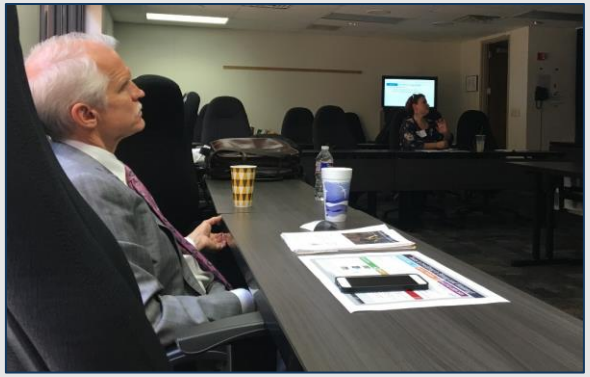
Scope of work:

- Review and clarify bikeway types
- Develop bikeway type selection matrix based on:
  - Traffic volume
  - Posted speed limit
  - Roadway functional class/setting



BAC Input/role:

- Share bicycling experiences on various types of bikeways
- Evaluate best practices from other states/national guidance documents
- Advise project team on volume, speed, and roadway functional class/setting thresholds
- Prioritize bikeway types



Supports SDR Focus Areas:

- A.2.b – Establish methodology for identifying needed bikeways (p. 35)
- A.2.f – Identify needs/gaps in bikeway network (p. 35)
- B.2.b – Review current design guidelines (p. 36)
- B.2.d – Review other design guidelines (NACTO, Complete Streets, etc.) (p. 36)
- B.2.e – Make recommendations on improvements to current design guidelines (p. 36)

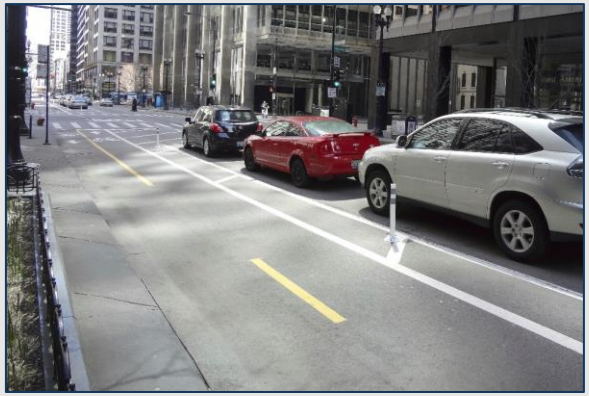
Area 3: *Bikeway Inventory* – Scope

Scope of work:

- Inventory of existing and proposed bikeways
- Create GIS layer to be incorporated into TxDOT's Statewide Planning Map
- Create standard bikeway GIS data format to encourage statewide data sharing

BAC Input/role:

- Share bicycling experiences on various types of bikeways
- Prioritize best practices from other states/national guidance documents
- Advise project team on volume, speed, and roadway functional class/setting thresholds
- Prioritize bikeway types



Supports SDR Focus Areas:

- **A.2.b** – Establish methodology for identifying needed bikeways (p. 35)
- **A.2.f** – Identify needs/gaps in bikeway network (p. 35)
- **B.2.b** – Review current design guidelines (p. 36)
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- **B.2.e** – Make recommendations on improvements to current design guidelines (p. 36)

AGENDA ITEM 7

2017 North Texas Regional Bicycle Opinion Survey

NCTCOG
Sustainable Development Program
Kevin Kokes, AICP

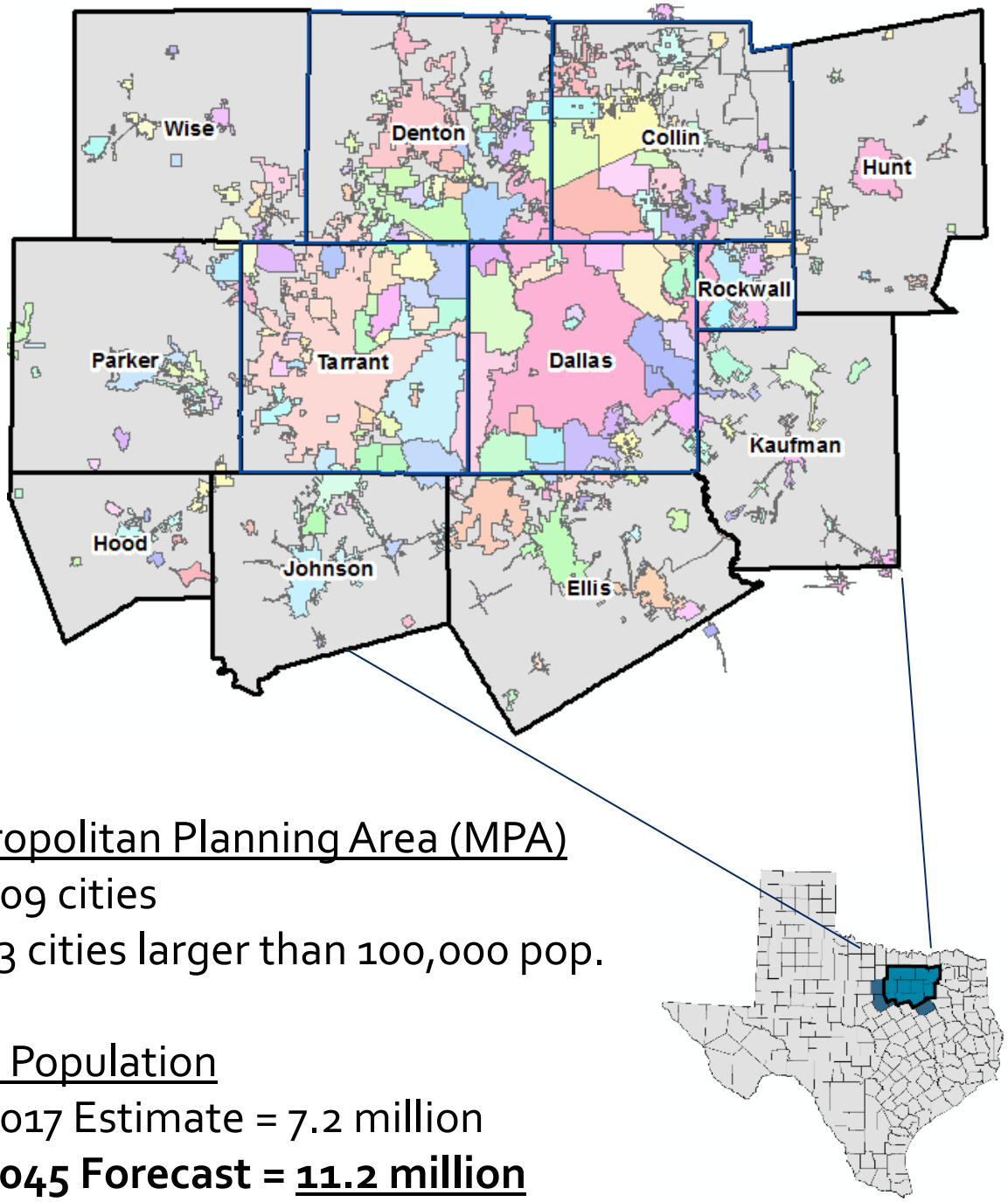
North Central Texas Council of Governments

TxDOT Bicycle Advisory Committee

April 16, 2018

North Central Texas Council of Governments

MPO for the Dallas-Fort Worth Region



Metropolitan Planning Area (MPA)

209 cities

13 cities larger than 100,000 pop.

MPA Population

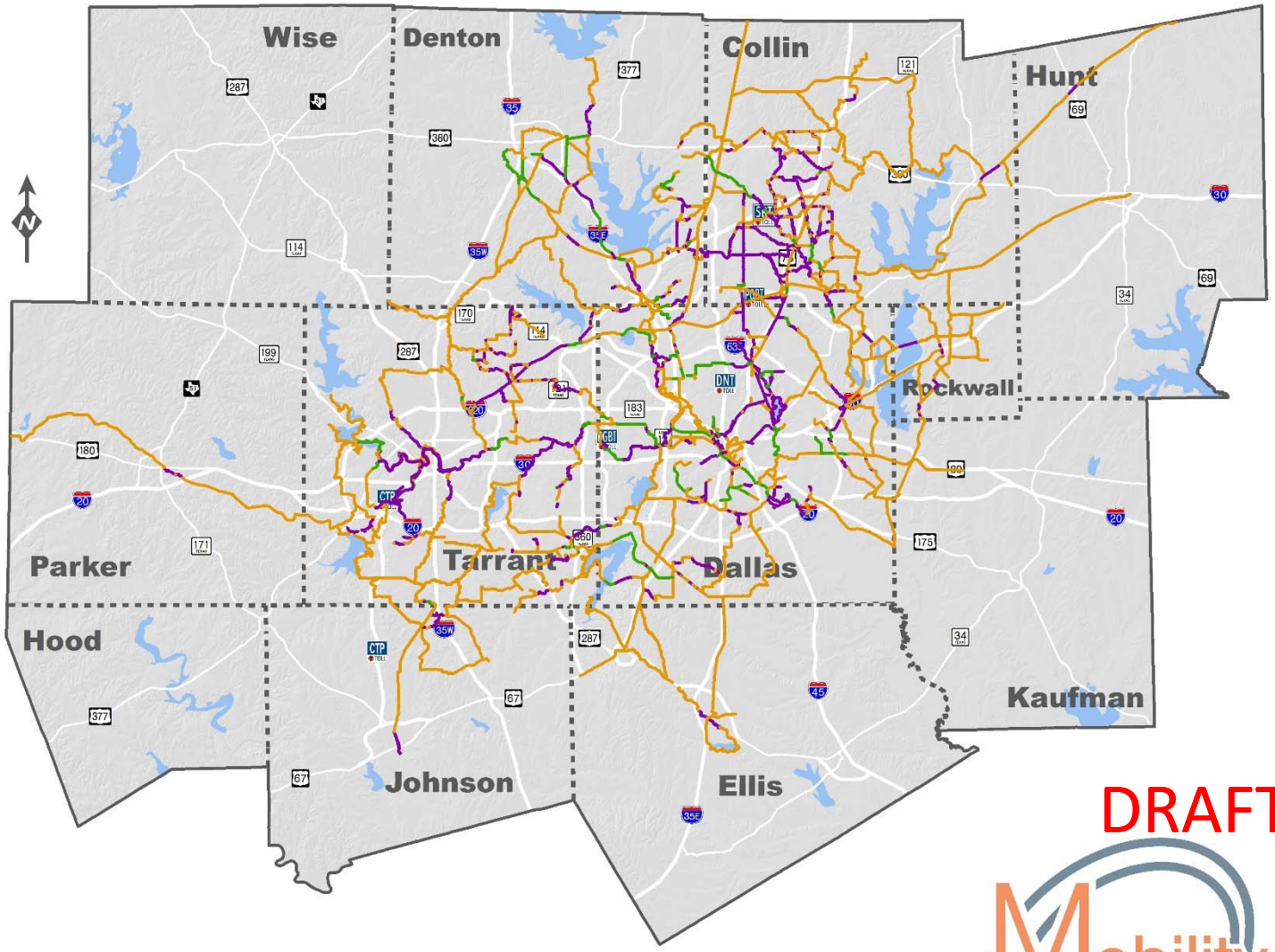
2017 Estimate = 7.2 million

2045 Forecast = 11.2 million

North Central Texas Council of Governments

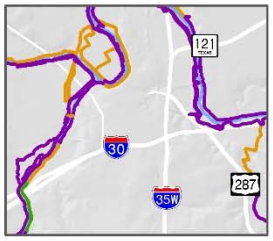
Regional Veloweb

Existing 455 Miles
Funded 142 Miles
Planned 1,284 Miles
Total 1,881 Miles



Dallas CBD

Fort Worth CBD



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Mobility 2045

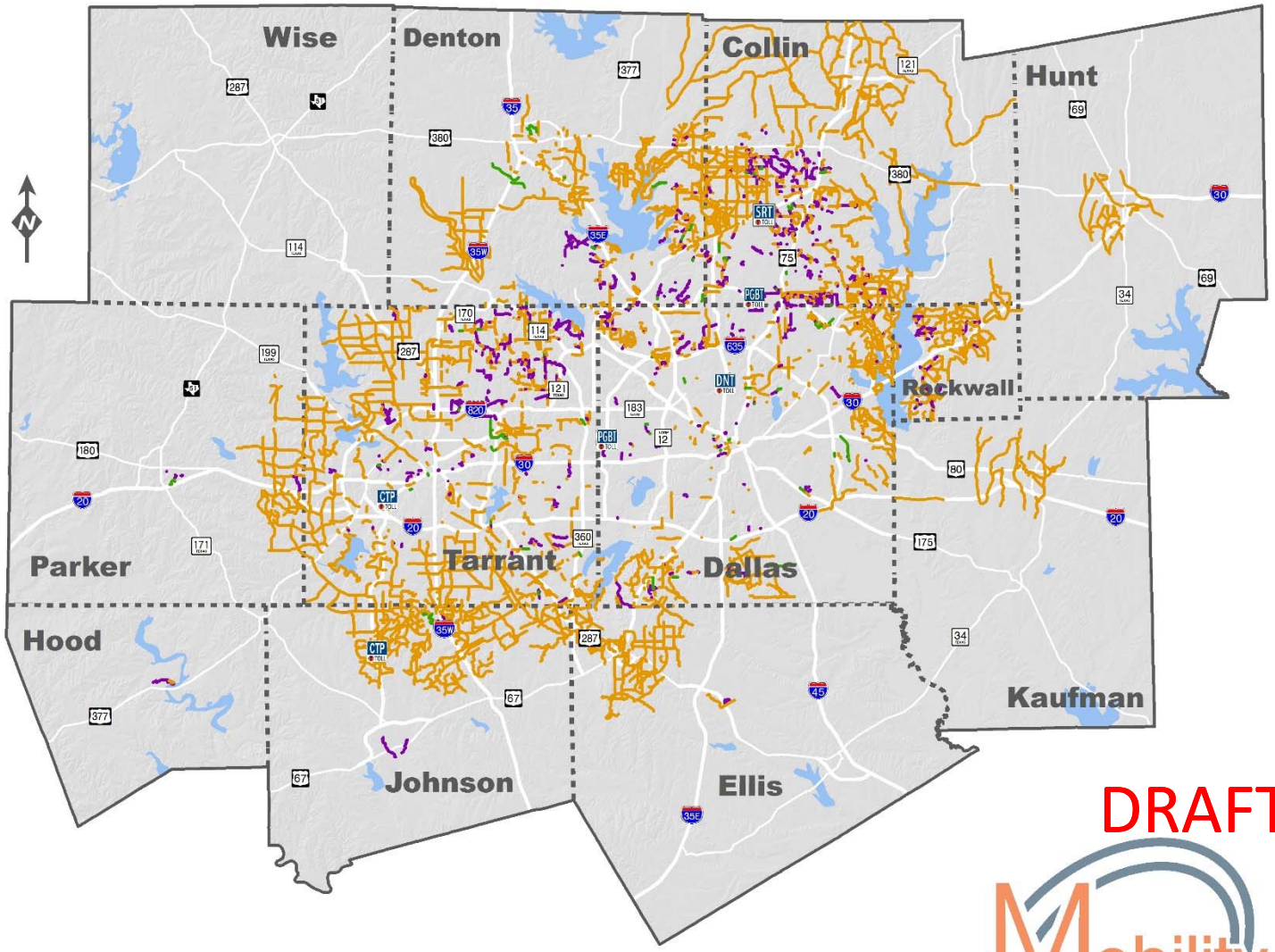
North Central Texas Council of Governments

Facility recommendations indicate transportation need. Corridor-specific alignment, design, and operational characteristics for the Regional Veloweb system will be determined through ongoing project development.

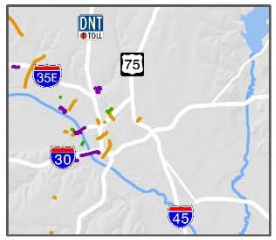
June 2018

Community Shared-Use Paths

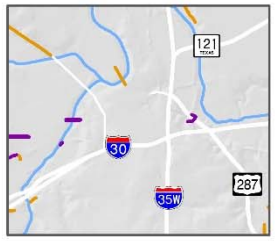
Existing	309 Miles
Funded	54 Miles
Planned	2,589 Miles
Total	2,952 Miles



Dallas CBD



Fort Worth CBD



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. Corridor-specific alignment, design, and operational characteristics will be determined through ongoing project development.

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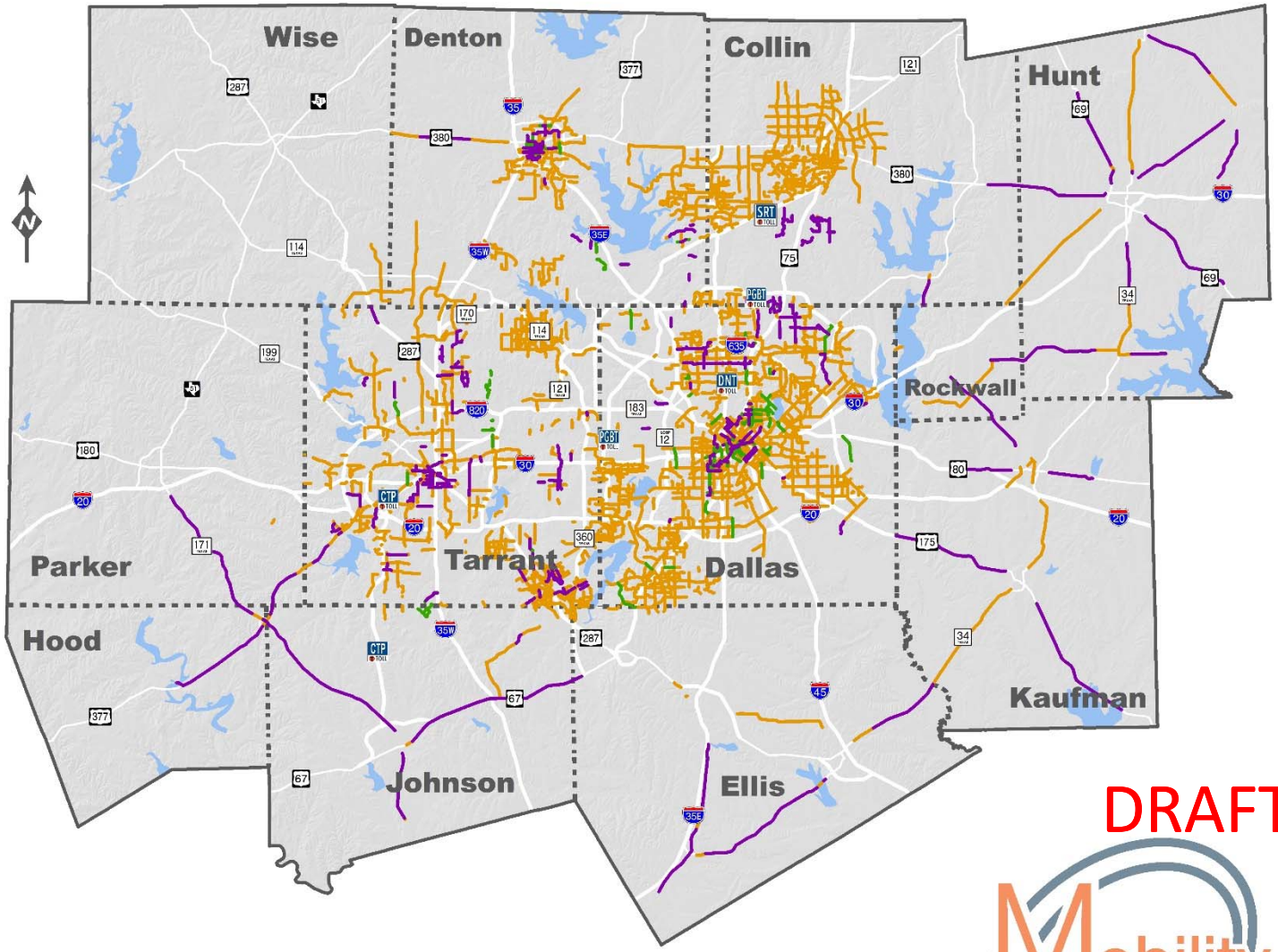
Mobility 2045

North Central Texas Council of Governments

June 2018

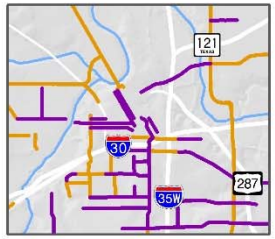
On-Street Bikeway Network

Existing 454 Miles
Funded 85 Miles
Planned 1,919 Miles
Total 2,458 Miles



Dallas CBD

Fort Worth CBD



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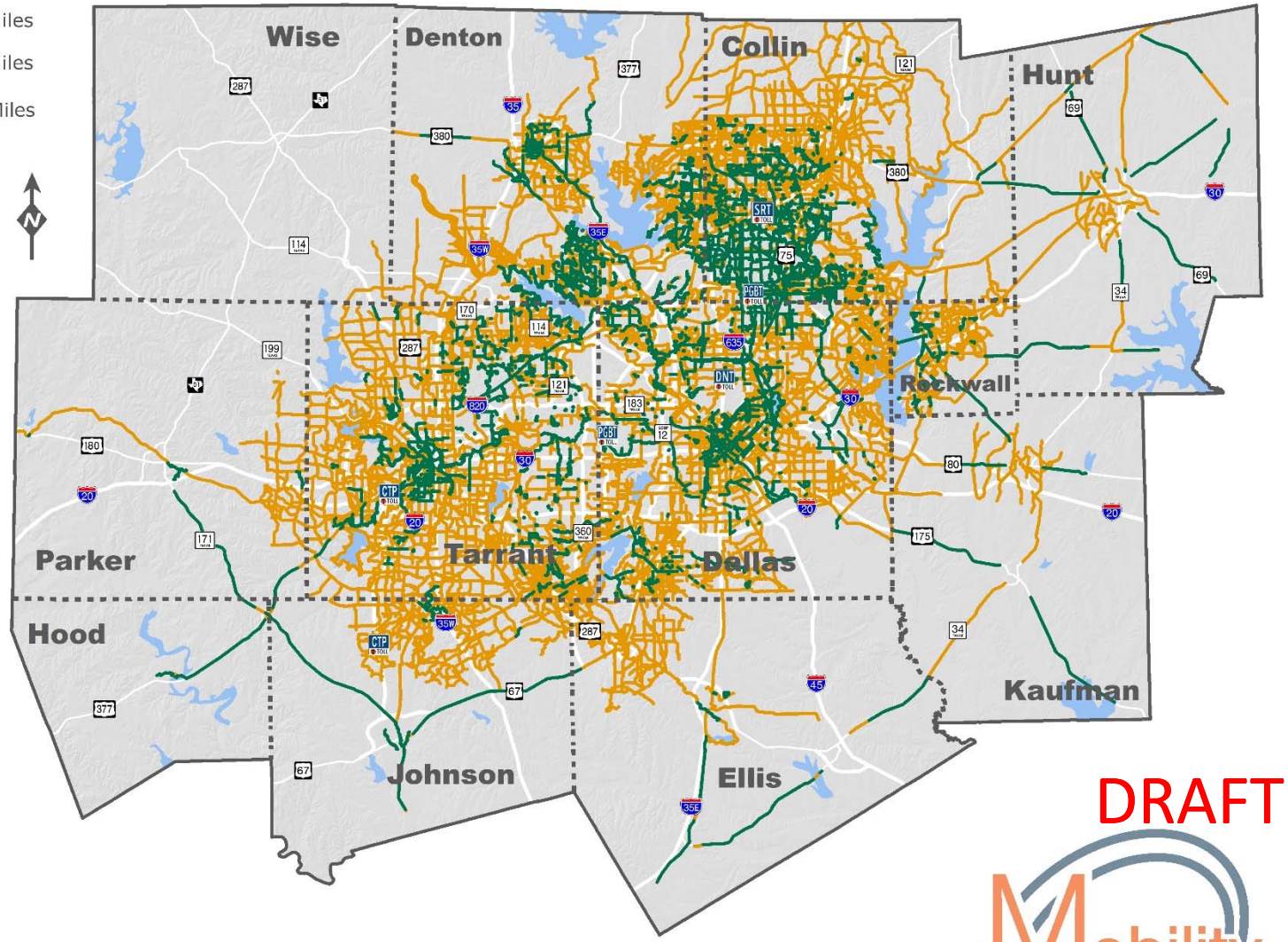
Mobility 2045

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 is included on various roadways linking rural communities outside of the urbanized area.
Facility recommendations indicate transportation need. Corridor-specific alignment, design, and operational characteristics will be determined through ongoing project development.

June 2018

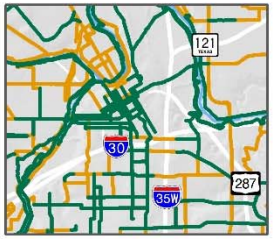
Combined Regional Veloweb, Community Paths, and On-Street Bikeway Network

Existing/Funded	1,499 Miles
Planned	5,792 Miles
Total	7,291 Miles



Dallas CBD

Fort Worth CBD



North Central Texas Council of Governments

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Mobility 2045

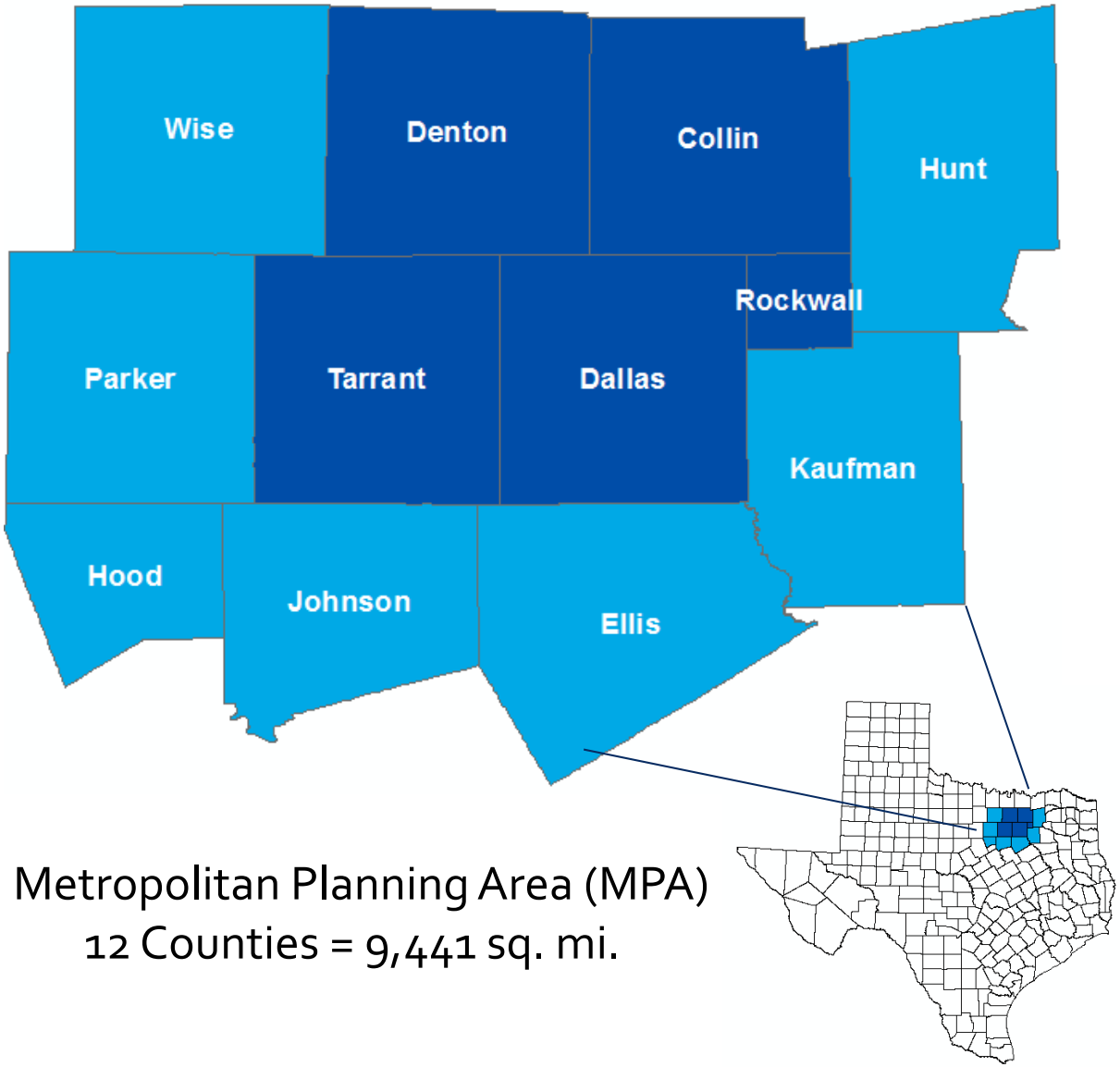
The Regional Veloweb and Community Shared-Use Path network does not include recreational paths/loops, private paths, equestrian or nature trails, or wide sidewalks less than 10 feet in width.
On-street bikeways in the urbanized area include: separated or protected bike lanes/cycle tracks, bike lanes, 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 is included on various roadways linking rural communities outside of the urbanized area.
Facility recommendations indicate transportation need. Corridor-specific alignment, design, and operational characteristics for the network will be determined through ongoing project development.

June 2018

Bicycle Opinion Survey Background

North Central Texas Council of Governments

MPO for the Dallas-Fort Worth Region



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

Urban Counties: Collin, Dallas, Denton, Rockwall and Tarrant
Rural Counties: Ellis, Hood, Hunt, Johnson, Kaufman, Parker, and Wise

North Central Texas Council of Governments

Bicycle Opinion Survey Background

- Statistically Valid Survey Conducted by Telephone During the Month of May, 2017
- 95% Confidence Interval
- Conducted in English and Spanish
- Survey Area:
  12-County MPA Region (also includes county-level results)
- A Total of 1,909 Interviews Conducted with Respondents Over the Age of 18
- 693 (36%) Reported They Had Bicycled in the Last 12 Months and 1,216 Reported They Had Not

Bicycle Opinion Survey Background

Questions Captured the General Public's View on Bicycling, Includes:

- Frequency of Bicycling
- Access to Bicycling Facilities
- Perceived Barriers to Bicycling
- Level of Comfort
- Helmet Use

Bicycle Opinion Survey Background

Various Questions summarized by:

- County, Gender, Age, Ethnicity, and Income
- Proximity of the Respondent's Residence to Existing Trails and On-Street Bikeways

North Central Texas Council of Governments

Bicyclists

ALL Respondents

Slides are noted if all respondents or bicyclists only answered the question.

2017 Bicycle Opinion Survey Respondent Demographics

Characteristic	Weighted Data
Sex	
Females 18+ years of age	50.8%
Males 18+ years of age	49.2%
Age	
18-34 years of age	31.8%
35-54 years of age	39.7%
55+ years of age	28.5%
Race/Ethnicity	
White alone	53.6%
Black alone	14.9%
Other	31.5%
Annual Household Income	
Under $25,000	13.9%
$25,000 to $49,999	22.1%
$50,000 to $74,999	21.7%
$75,000 to $99,999	14.4%
$100,000+	27.9%

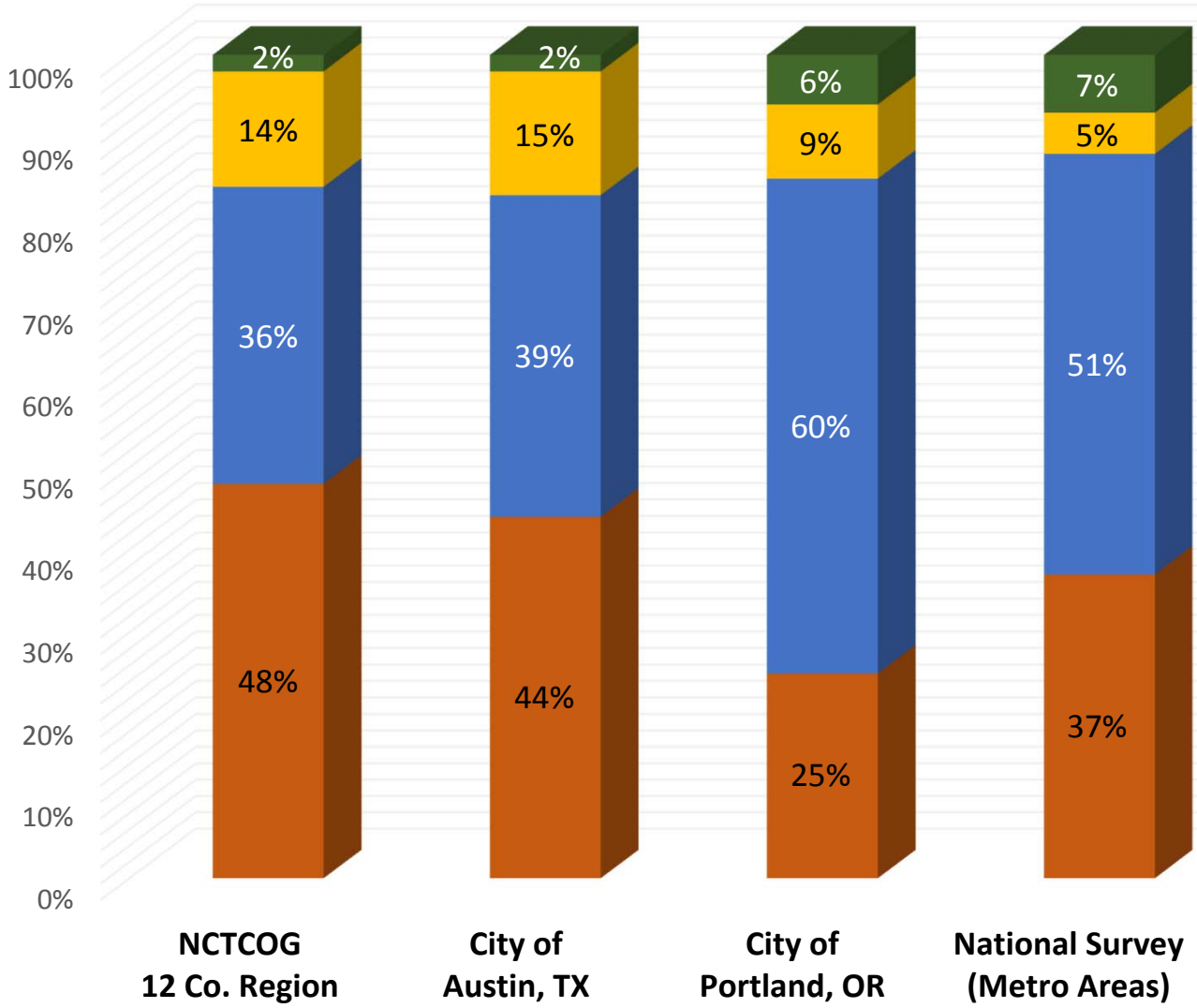
ALL Respondents

Planning / Designing for All Ages & Abilities

(Ages 8 to 80)

Four Types of Cyclists*

Regional Comparison



Strong & Fearless

Will ride a bicycle regardless of the roadway conditions. Riding is a strong part of their identity.

Enthused & Confident

Somewhat comfortable sharing the road with vehicle traffic. Prefers dedicated bike facilities.

Interested But Concerned

Like riding a bicycling, and would ride more if they felt safer on the roadways.

No Way No How

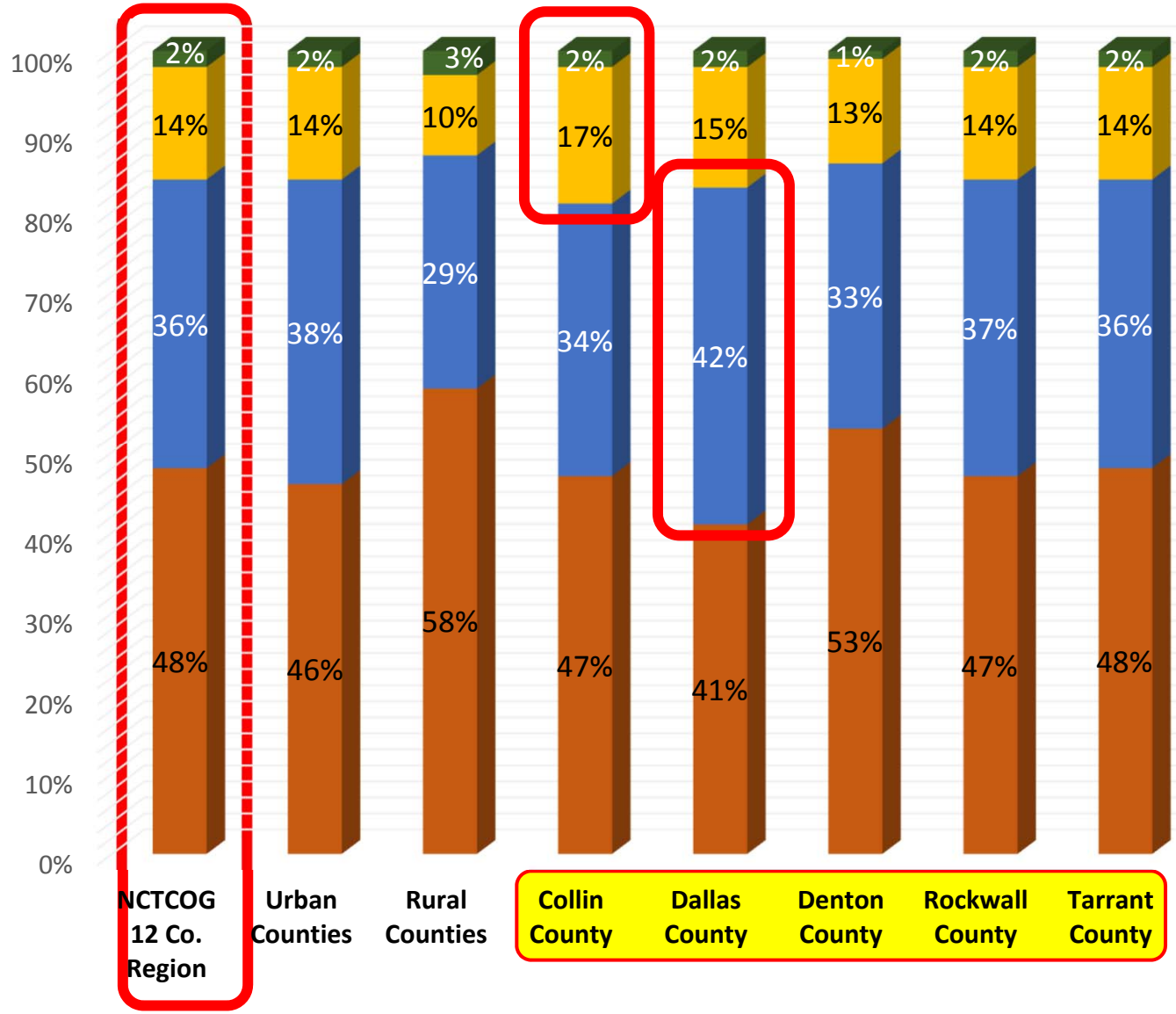
Not comfortable, not interested, or not physically able to ride a bicycle.

*Determined in large part by comfort of cycling on different types of facilities.

ALL Respondents

Four Types of Cyclists*

Within North Texas Region



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ALL Respondents

Frequency of Bicycling

In the past 12 months …

36% Of ALL Respondents Bicycled at Least Once

Percent of bicyclists who rode at least once during the season.

Mar, Apr, May	Jun, Jul, Aug	Sep, Oct, Nov	Dec, Jan, Feb
95%	84%	85%	47%
Bicyclists	Bicyclists	Bicyclists	Bicyclists

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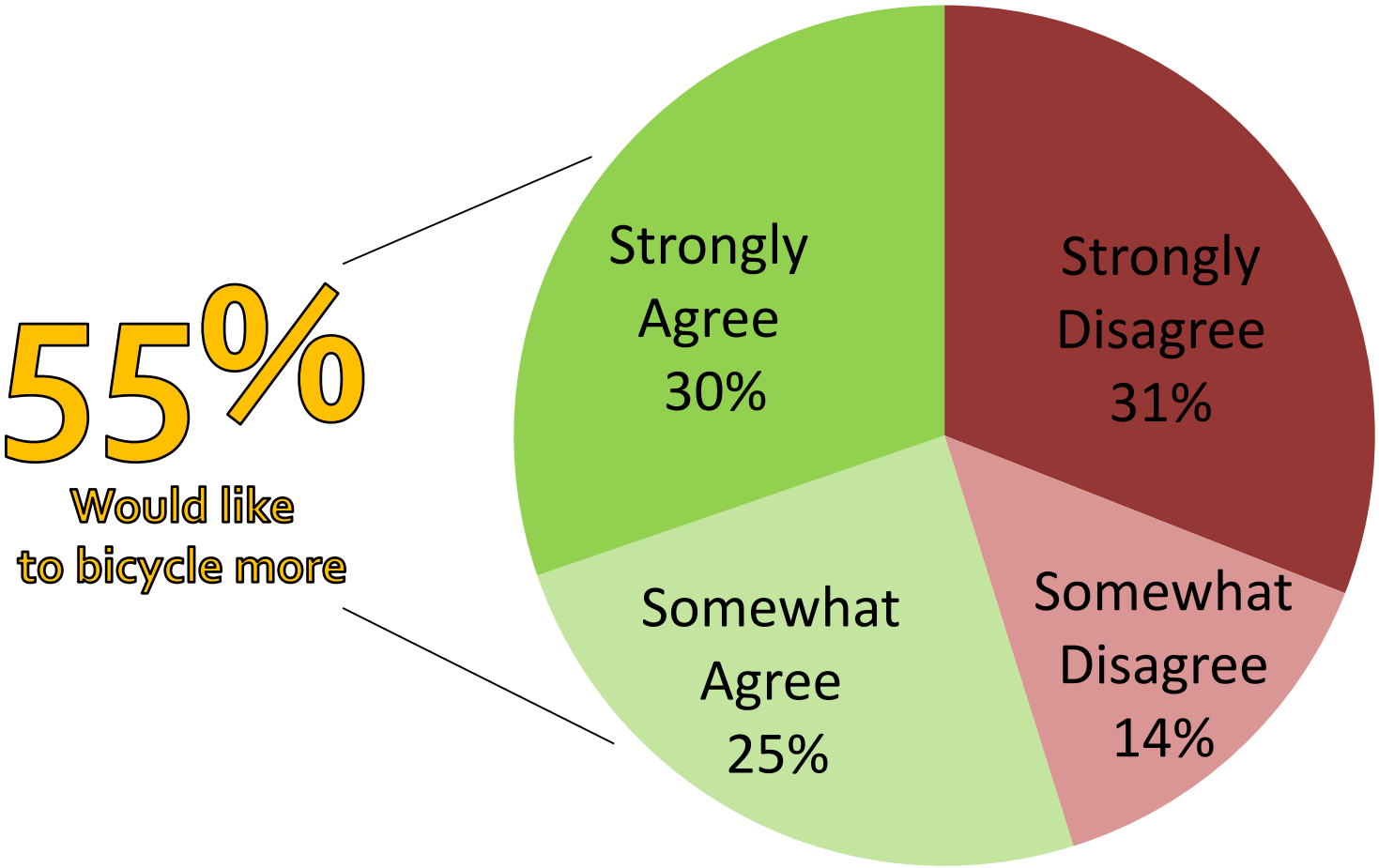
Frequency of Bicycling

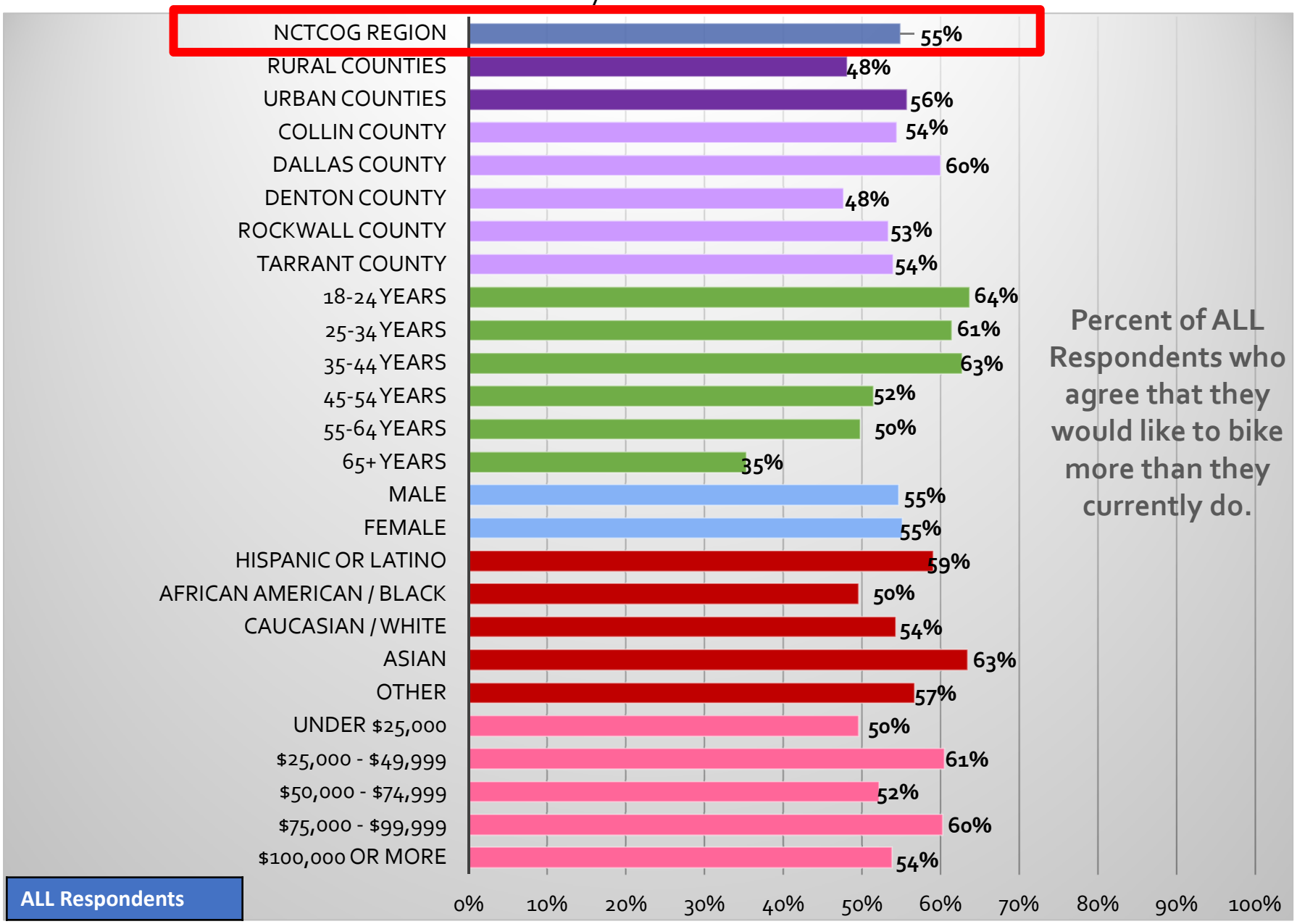
I would like to travel more by bike more than I do now.



ALL Respondents

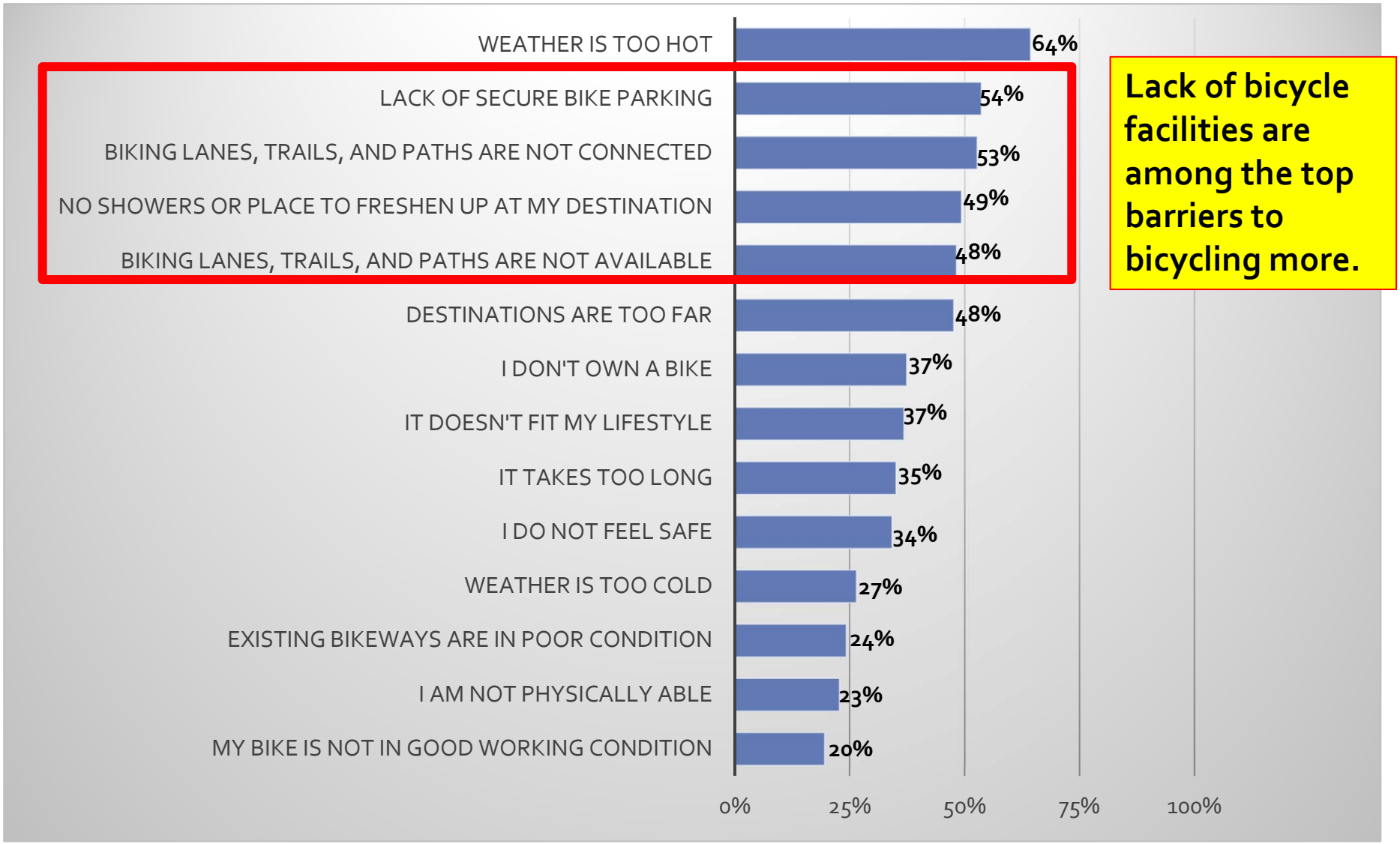
Frequency of Bicycling

I would like to travel more by bike more than I do now.



Obstacles to Bicycling More Often

Do any of the following prevent you from riding a bike more often than you currently do?



Lack of bicycle facilities are among the top barriers to bicycling more.

Percent of all respondents indicating each is a barrier.

ALL Respondents

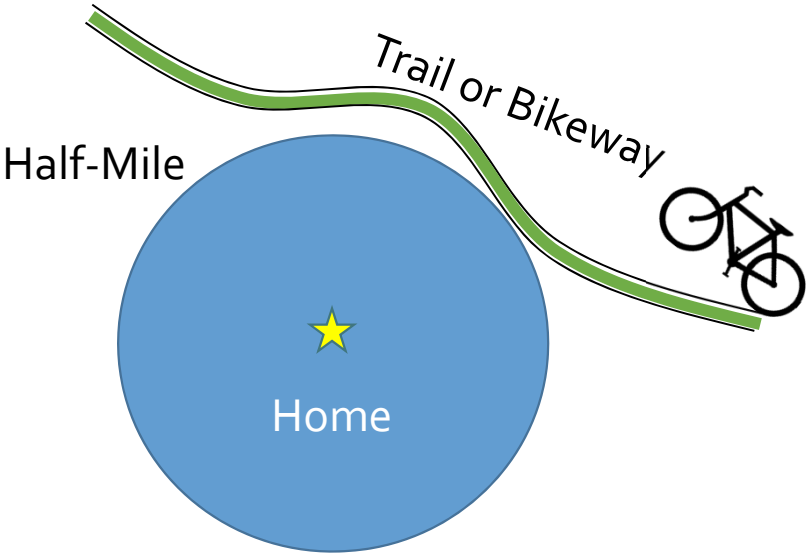
Proximity and Availability of Bicycle Facilities

Proximity to a Bicycle Facility Influences Bicycle Use

34%

Who Lived **MORE THAN**
Half-Mile of a Trail or Bikeway

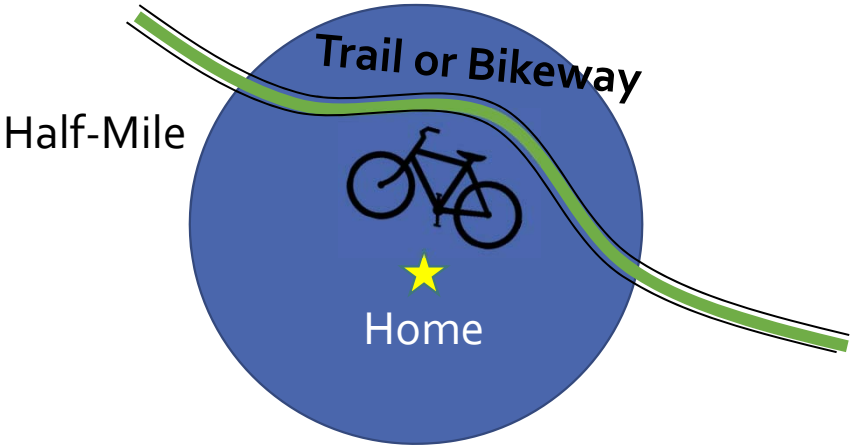
Bicycled in the past 12 months



45%

Who Lived **LESS THAN**
Half-Mile of a Trail or Bikeway

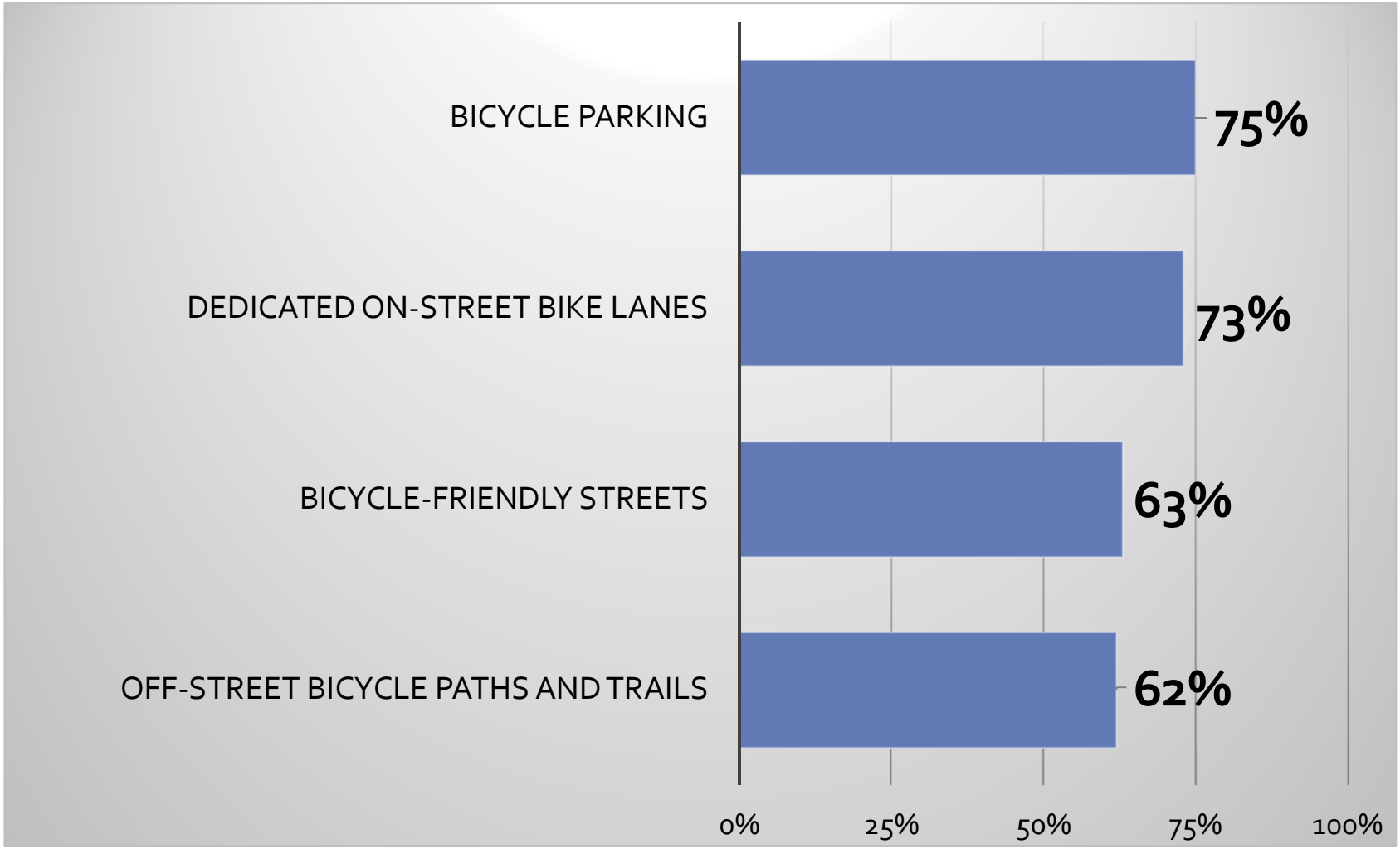
Bicycled in the past 12 months



Availability of Bicycle Facilities

Do you think there are too many, about the right amount, or too few in your community?

Percent of ALL Respondents rating as "TOO FEW"



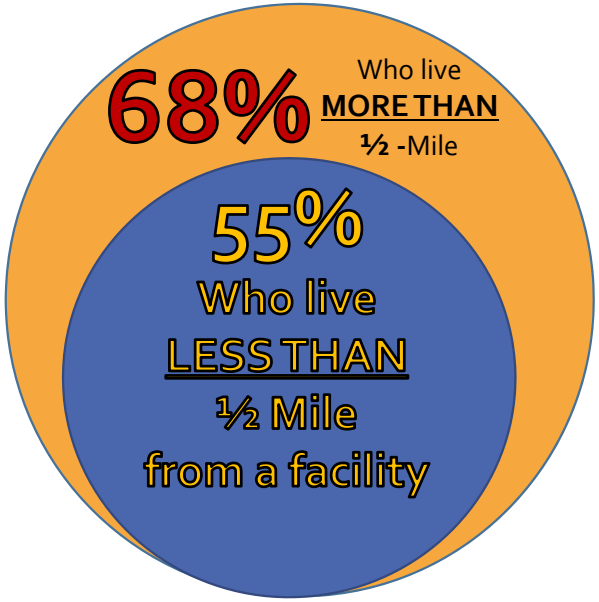
ALL Respondents

Availability of Bicycle Facilities By Proximity

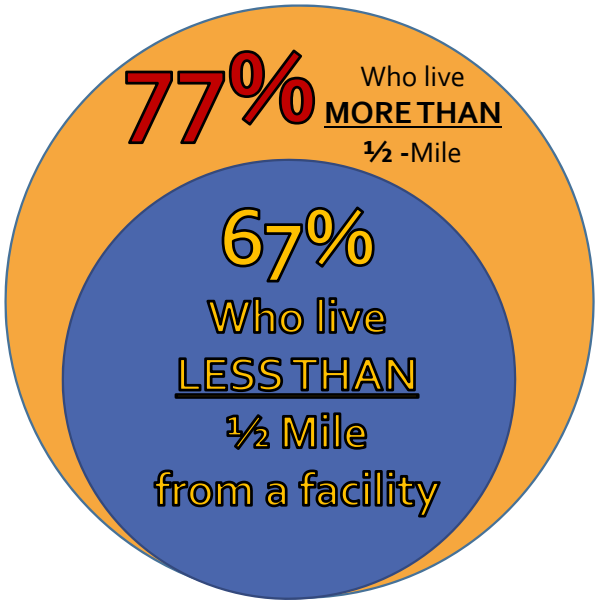
Do you think there are too many, about the right amount, or too few in your community?

Percent Rating the Amount or Availability of the Different Types of Facilities for Bicyclists as "TOO FEW"

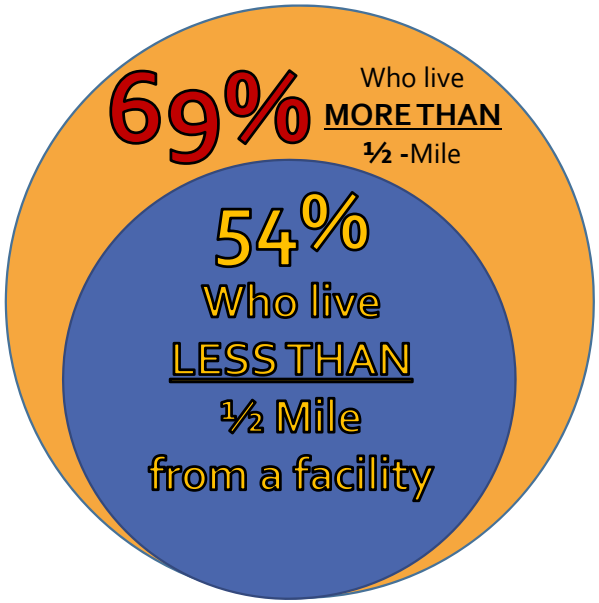
TOO FEW Off-Street Bicycle Paths and Trails



TOO FEW On-Street Dedicated Bike Lanes



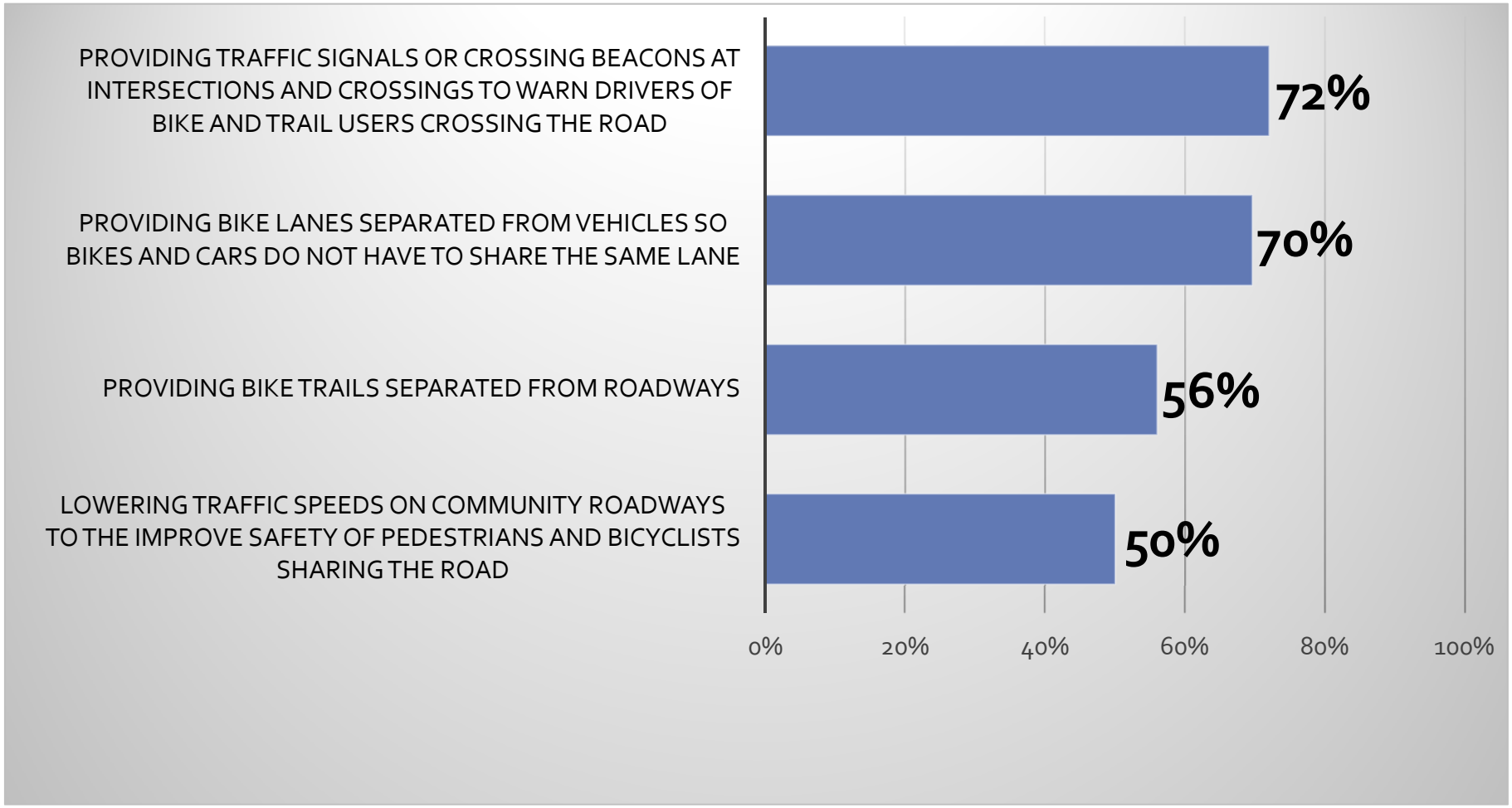
TOO FEW Bicycle Friendly Streets



ALL Respondents

Importance of Improving Bicycle Access

How important, if at all, do you feel it is for your community to do each of the following?



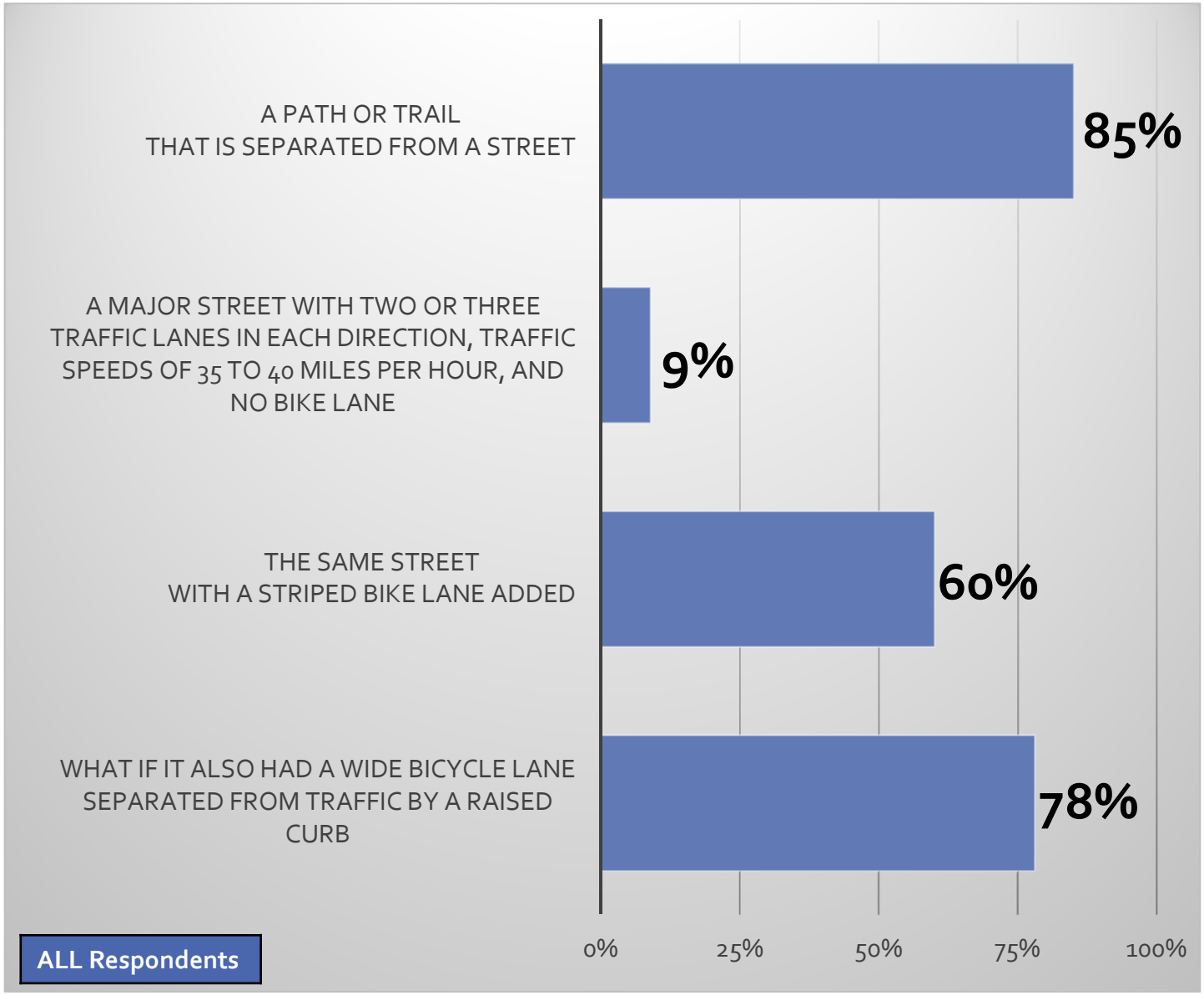
ALL Respondents

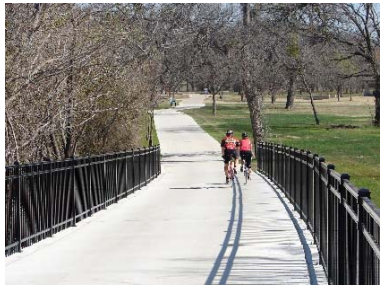
Level of Comfort and Helmet Use

Level of Comfort

How Comfortable Are you Riding a Bike on the following?

Percent of ALL respondents reporting they would feel "VERY COMFORTABLE" or "SOMEWHAT COMFORTABLE"





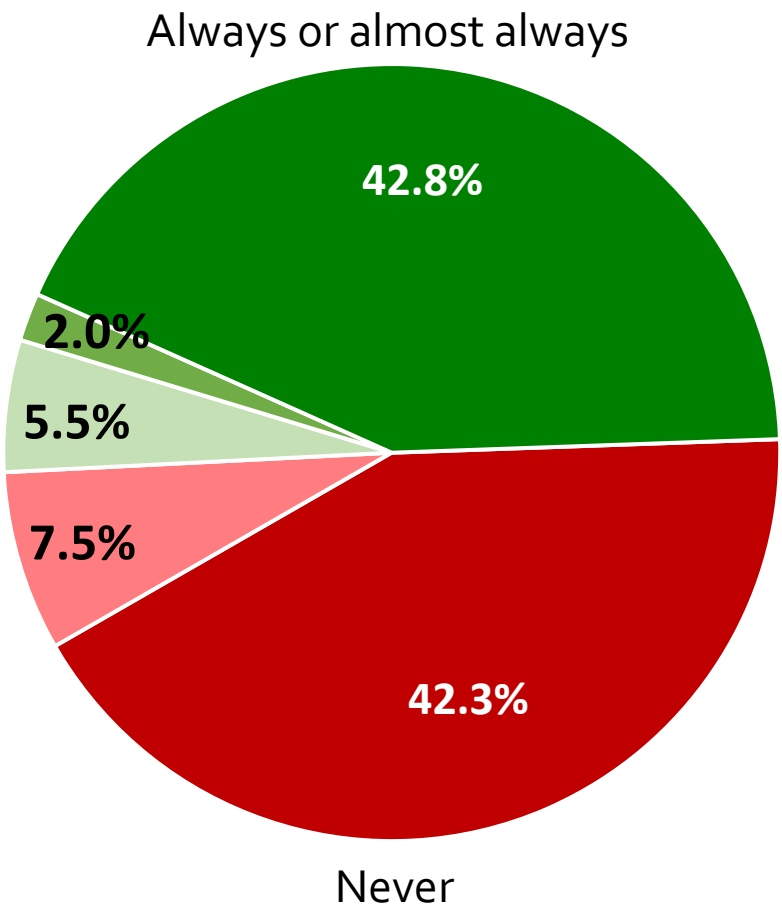
Frequency of Wearing A Helmet

Of the bicyclists who rode in the past year…

About 75% of the time

About half of the time

About 25% of the time



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Key Findings

- About one-third, 36%, of all respondents had bicycled at least once in the past 12 months.
- 55% of all respondents would like to bike more.
- Spring was the most popular time of year for bicycling while winter was the least.
- In the past month, 13% of all respondents bicycled for transportation and 26% bicycled for recreation.
- Hot weather and the lack of bicycle facilities were the top obstacles to bicycling more.
- The closer respondents lived to bicycle facilities the more likely they were to report riding a bicycle.

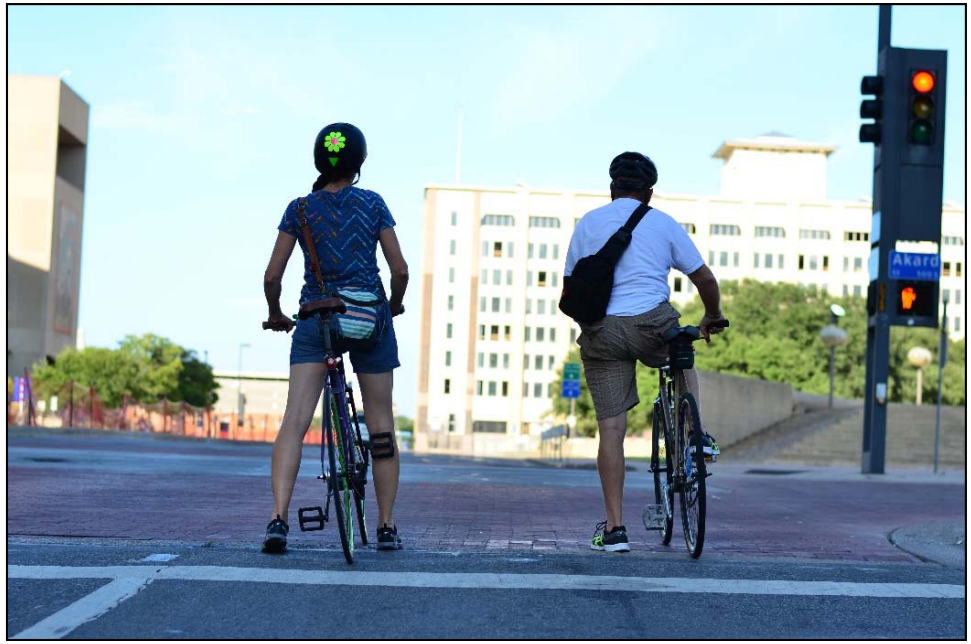
Key Findings Continued

- A majority of respondents indicated that there are "too few" bicycle facilities in their communities.
- They also considered improvements to increase bicycle access to be "essential" or "very important" for their community.
- The type of bike facility design, location, and traffic volumes were significant influences on respondents' level of comfort bicycling.
- About 58% of bicycle riders said they wear a helmet at least some of the time, but usage varies by age of rider.

2017 NCTCOG
Regional Bicycle Opinion Survey Results

Bicycle Opinion Survey Website:
nctcog.org/bikesurvey

- Key Findings
- Executive Summary
- Final Report
- Presentation Slides and Graphics



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