



WICHITA BICYCLE MASTER PLAN



swadle@wichita.gov

“I expect not only to take all of their [Seattle and Portland’s] bikers but I also want all the jobs that come with this, all the economic growth that comes with this, all the opportunities of the future that comes with this.” – Chicago Mayor Rham Emanuel



Presentation Purpose

- About Wichita
- City of Wichita Bicycle Master Plan
- Implementation





WICHITA BICYCLE MASTER PLAN



Part 1

Wichita, Kansas





Air Capital of the World

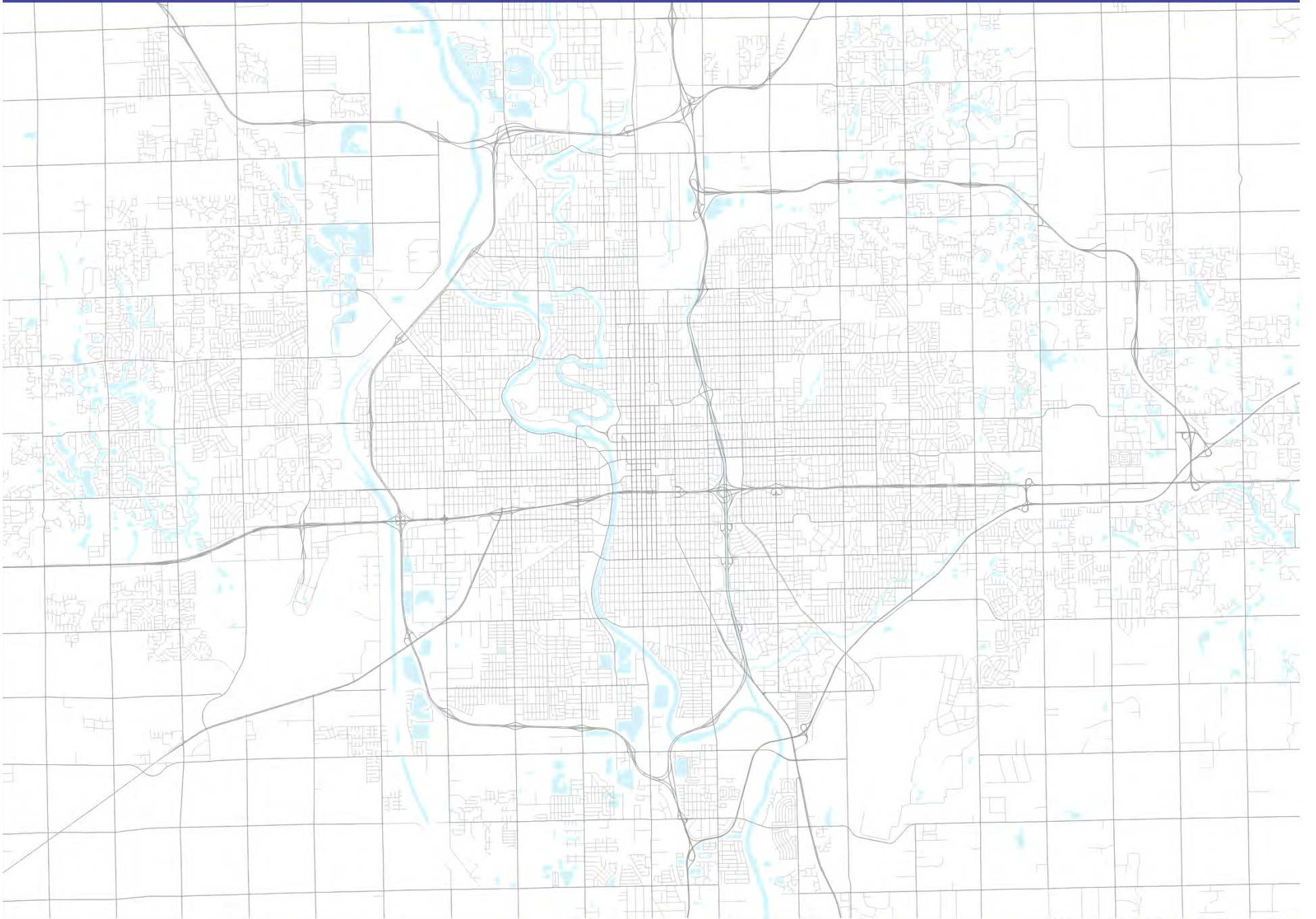
- ◎ Population (2010)
 - 382,368 Wichita
 - 623,061 Wichita MSA
- ◎ Manufacturing 18%
(U.S. average 8.9%)
- ◎ 14 colleges and universities in the local area

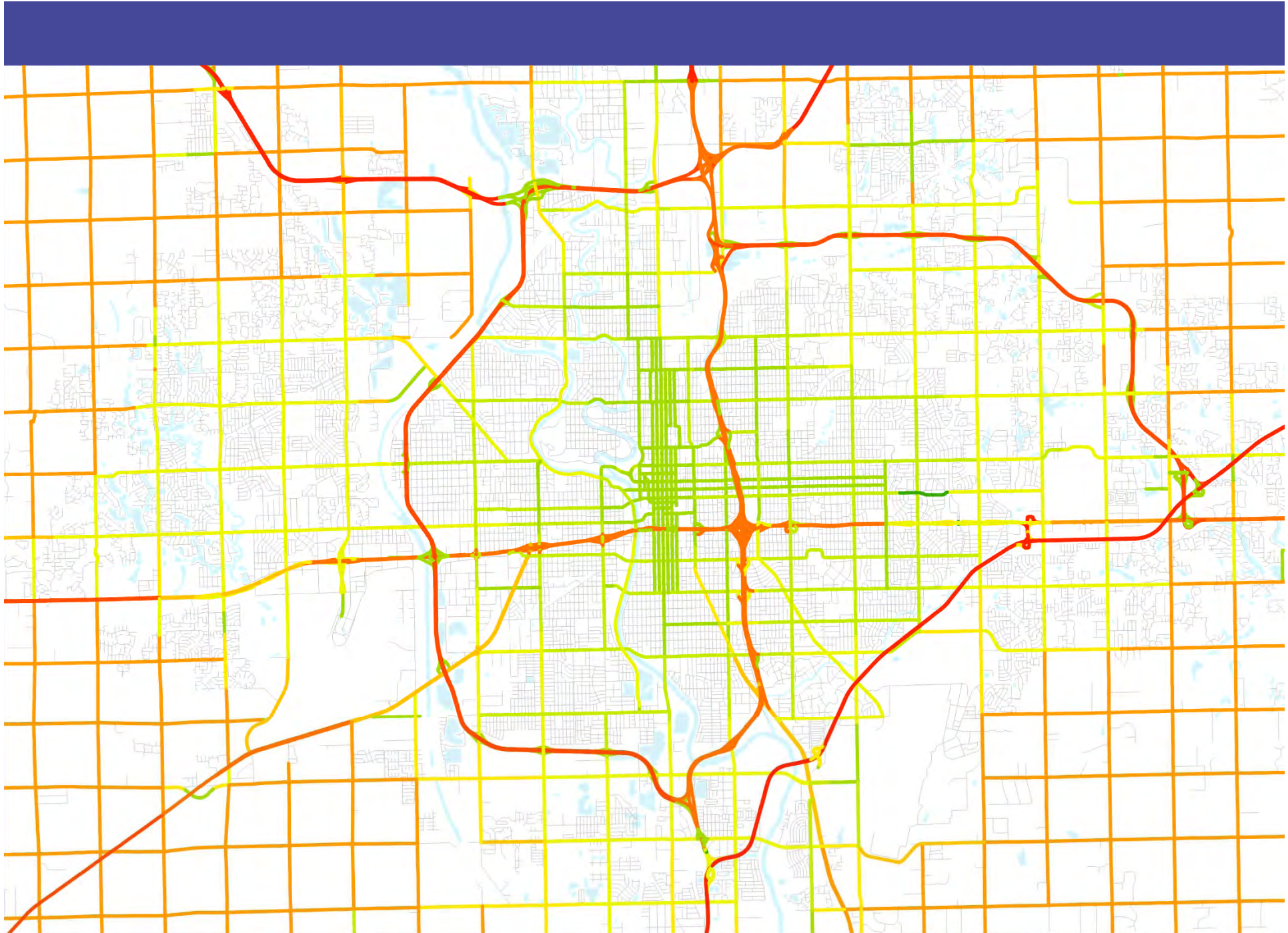
Transportation

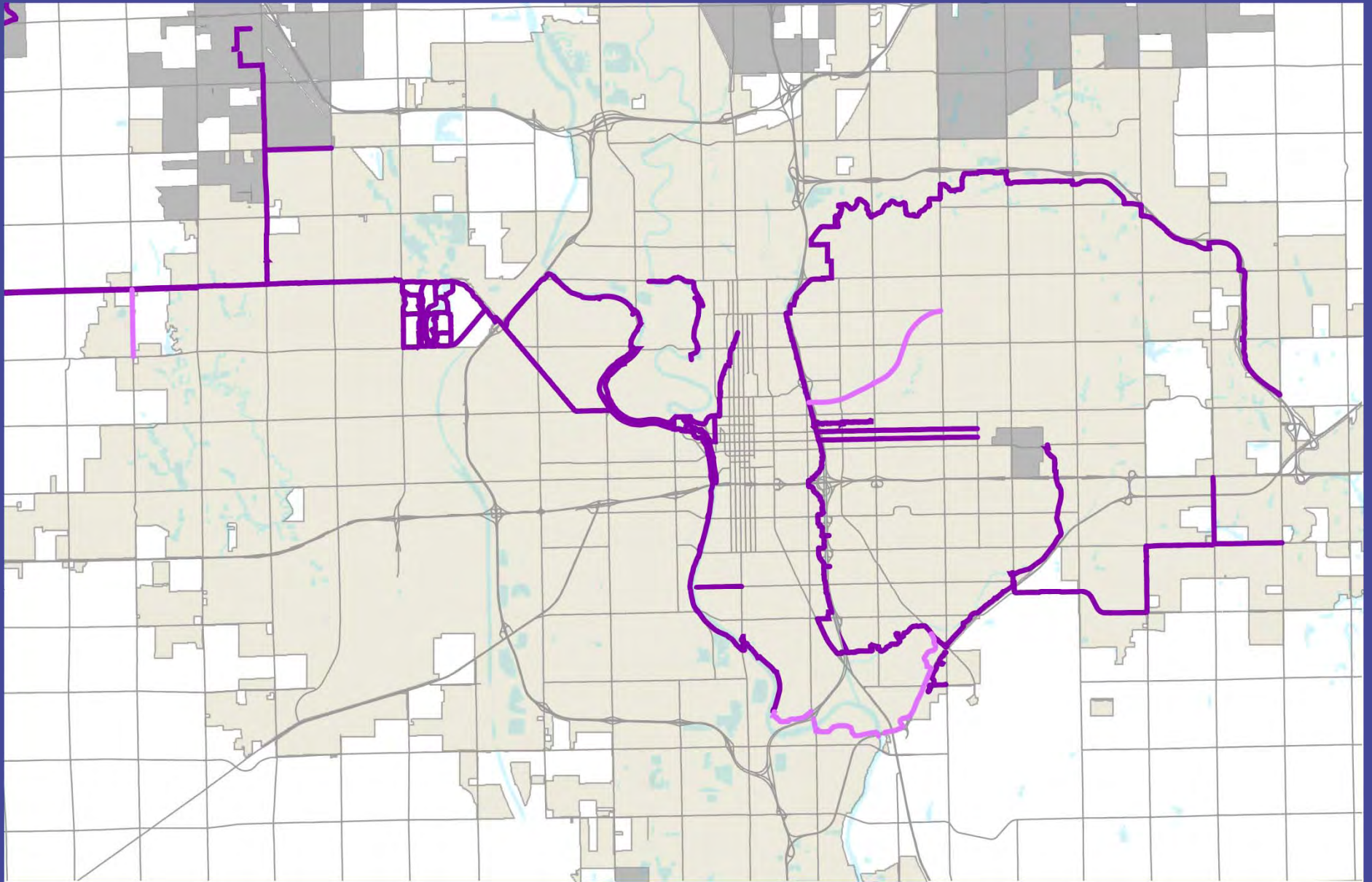
Commute Trips

- Motor vehicles 94%
- Bicycling 0.3%
- Transit 0.8%
- Walk 1.3%









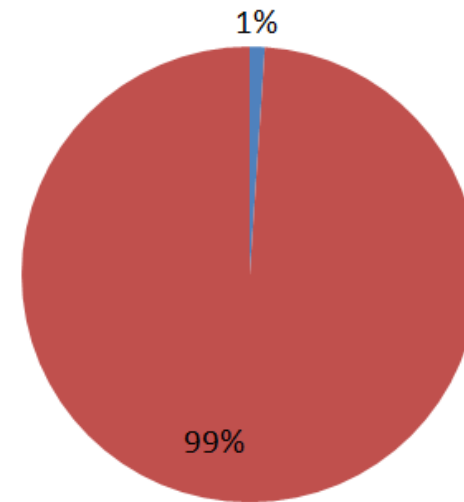
Investments

City of Wichita

- roads,
- bridges,
- sidewalks,
- paths,
- parking lots

Investments Comparison

- Planning level cost estimates for existing investments in bicycle facilities
- Replacement costs for roads and bridges infrastructure



Replacement costs = **\$2.7 billion***

* Source: Wichita State University Community Infrastructure and Facilities Status, November 2012

Bicycle Parking



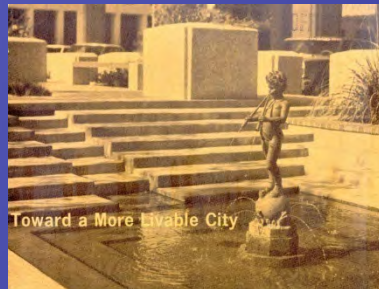
Bicycles on Buses



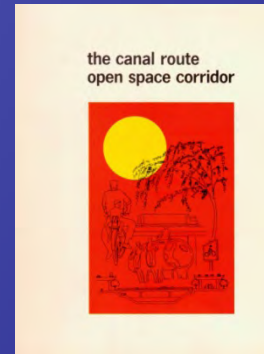
History of Bicycle Planning in Wichita



1965



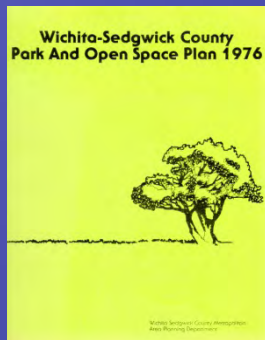
1965



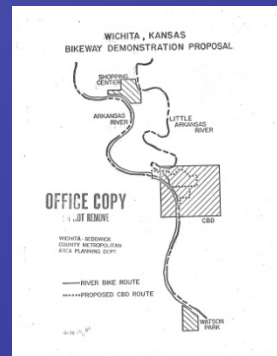
1970



1974



1976



1977

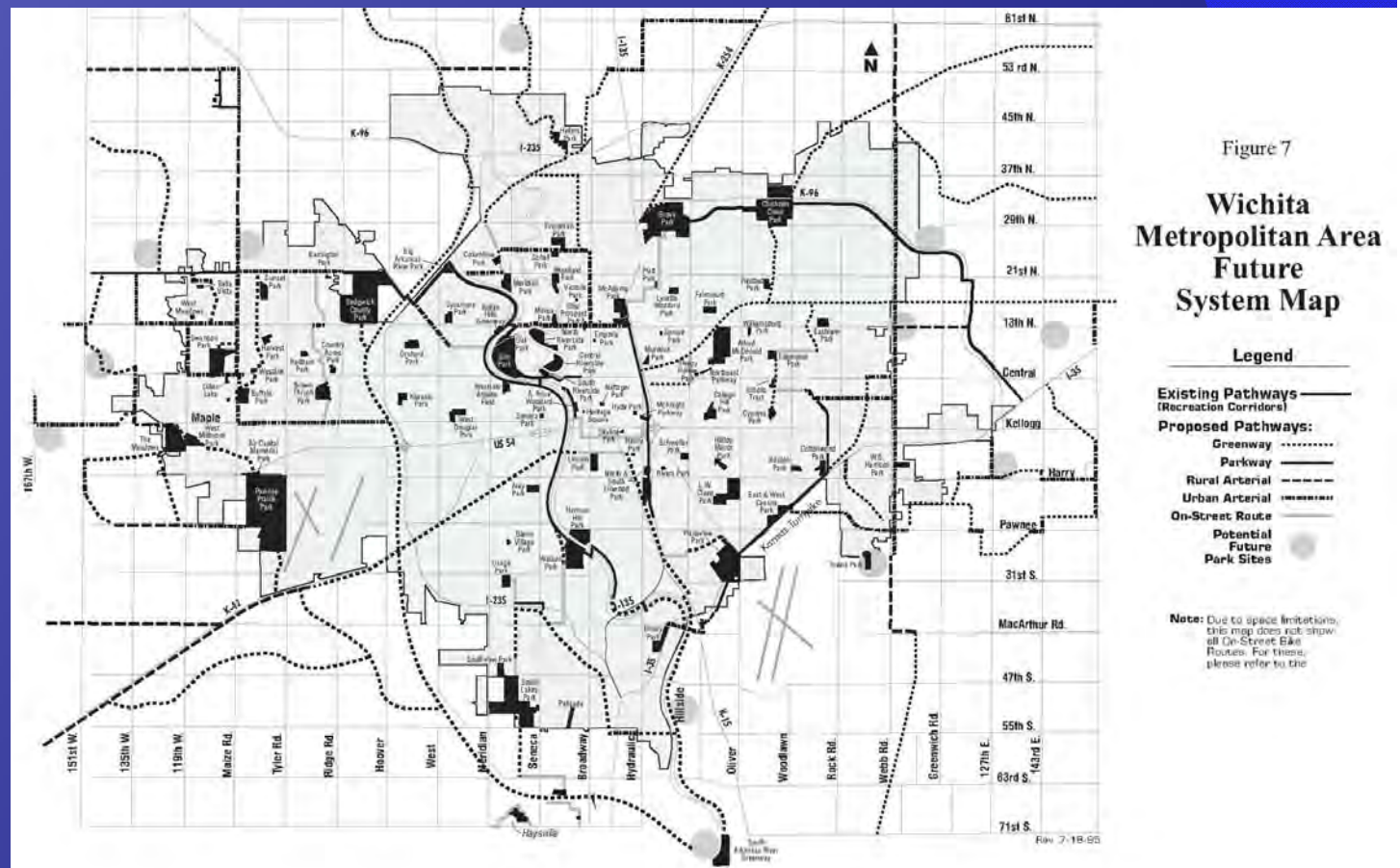
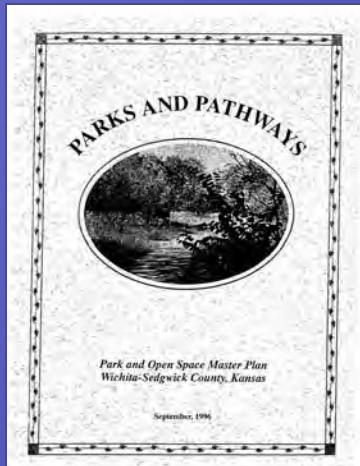


1980



1987

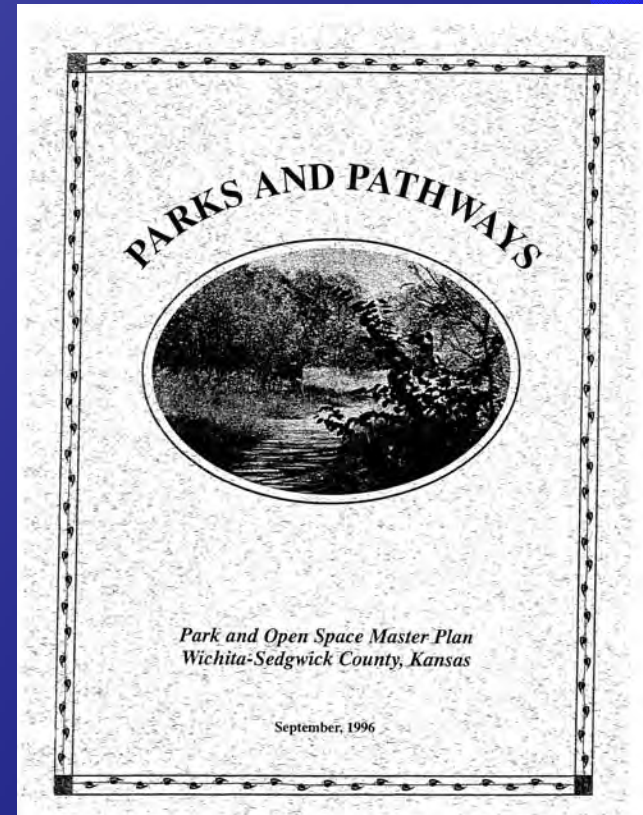
1996 Wichita-Sedgwick County Parks and Pathways Plan



1996 Wichita-Sedgwick County Parks and Pathways Plan

More than 400 miles
planned

Approx. 17 miles
constructed



2007 WAMPO Pathways Plan

Wichita Area Metropolitan Planning Organization
Regional Pathway System Plan

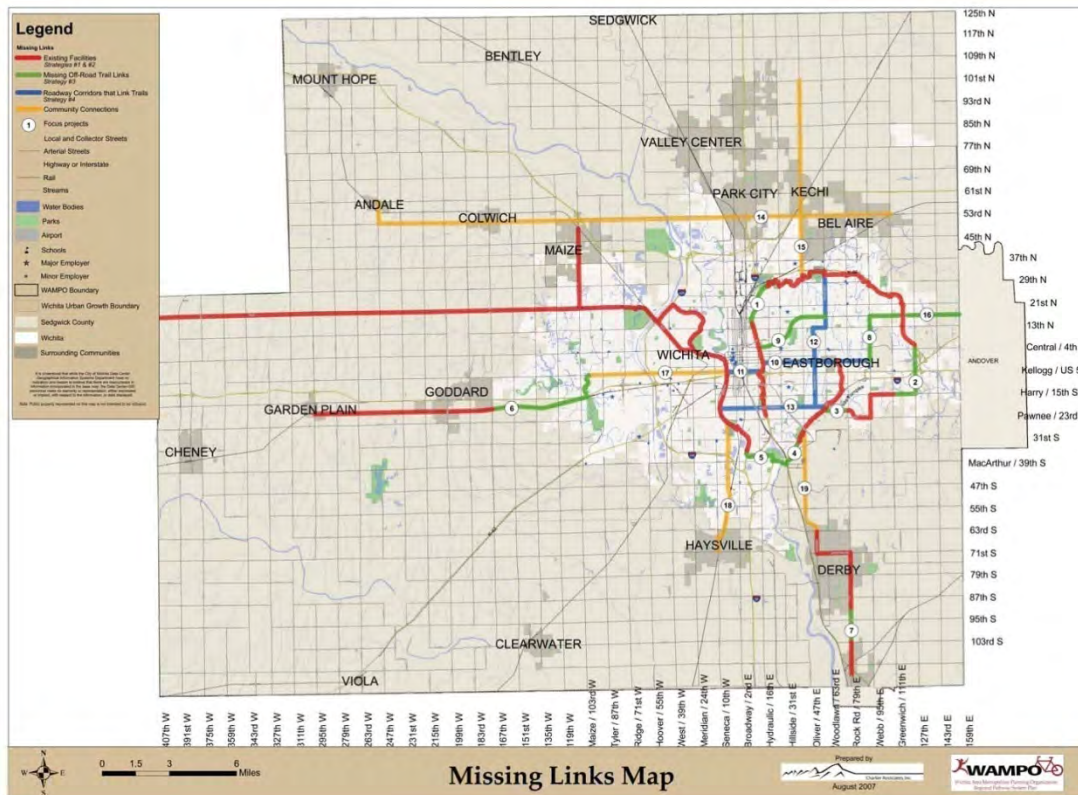


Approval and Adopted by WAMPO Transportation Policy Body on September 11, 2007

August 2007

p. 48

WAMPO Regional Pathway System Plan



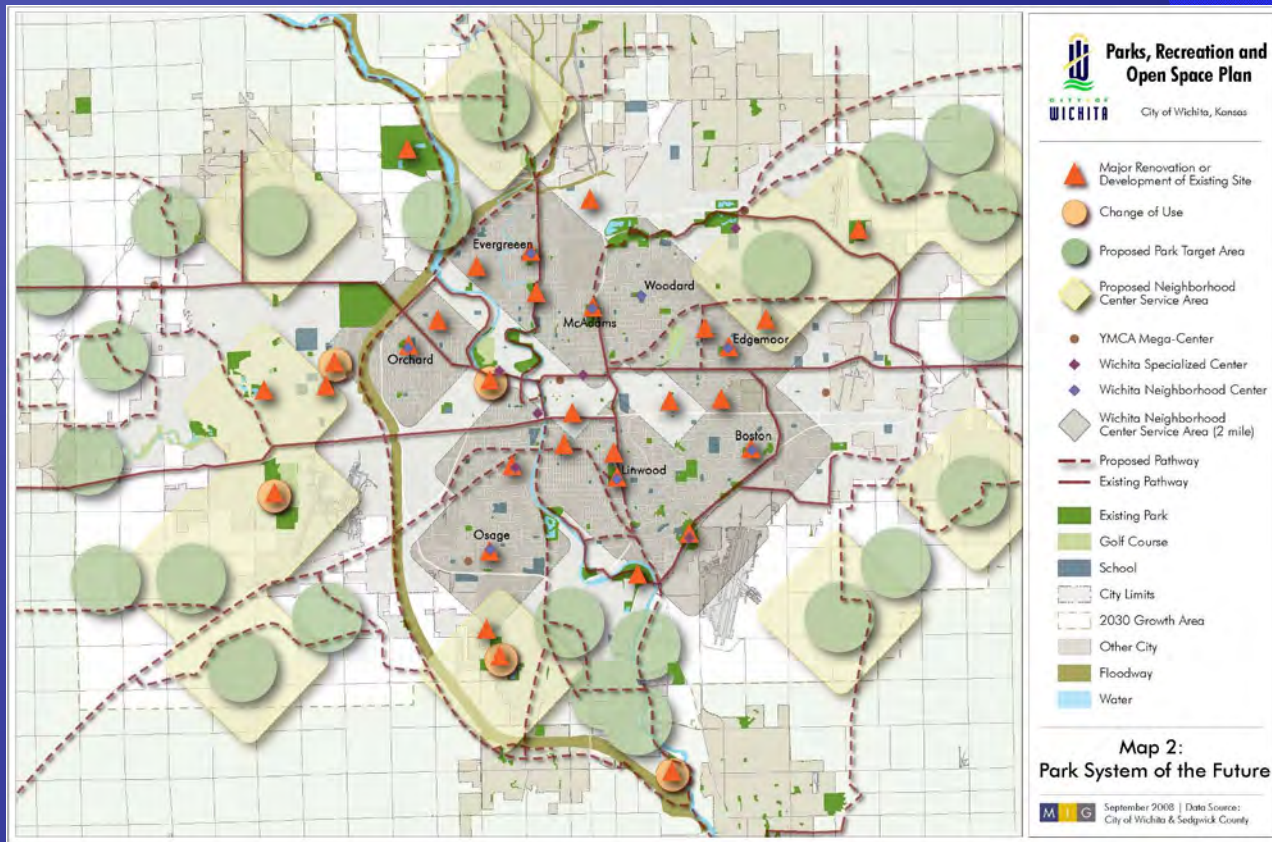
07 WAMPO Pathways Plan

More than 360 miles
planned

At least 5 miles
constructed



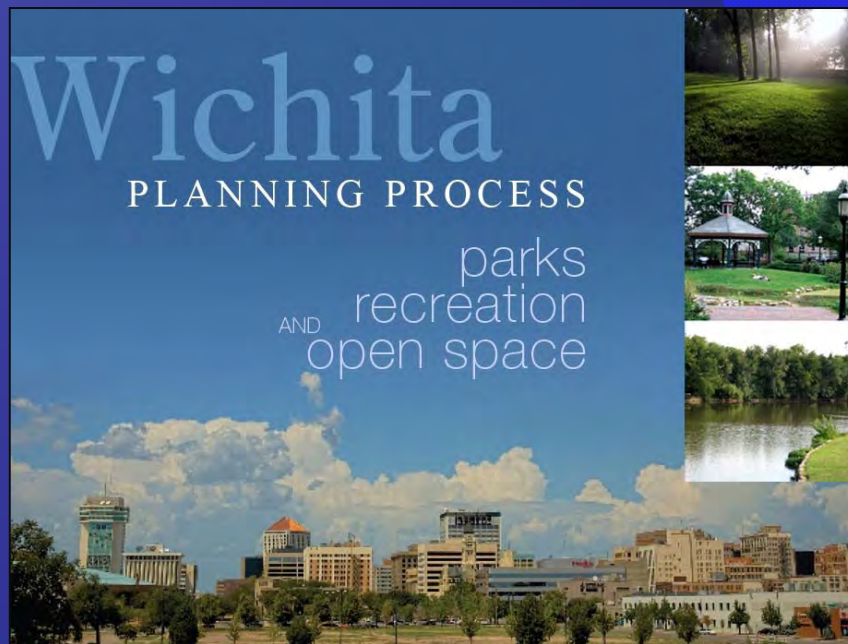
2008 Wichita Parks, Recreation, and Open Space Plan



08 Wichita Parks, Recreation, and Open Space Plan

More than 300 miles
planned

2 miles constructed
in 2010





WICHITA BICYCLE MASTER PLAN



Part 2

Overview

eed - 2010 Citizen Survey

the **satisfaction** of Wichita residents with the **ease of bicycle travel** in the city is **"much below"** the satisfaction of residents in **comparable cities**. Wichita ranked 21 out of 29 comparable cities for the ease of bicycle travel.

was one of the three least positive ratings by the citizens of Wichita.

Plan Funding

EECBG \$200,000



PROJECT OVERVIEW



CITY OF
WICHITA
www.wichita.gov

PROJECT SCHEDULE



2011					2012									
AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT
Data Collection														
Online Survey and Interactive Mapping														
			Public Open House											
			Define Citywide Bicycle Network											
					Develop Policy and Program Recommendations									
						Develop Draft Master Plan Report								
									Public Open House - Present Draft Plan					
									Develop Final Master Plan Report					
												Adoption of Master Plan		



More than 4,000 people!



Steering Committee

Wichita City Council
Bike/Walk Alliance
Oz Bicycle Club
Coasters Club
Run Wichita
Wichita Bike-Ped Task Force
Commercial developer
Mayor's Youth Council
Park Board
Sedgwick County Advisory
Council on Aging

- KDOT
- WAMPO
- Sedgwick County Health Dept.
- USD 259 BOE
- Wichita Downtown Development Corporation
- Wichita Area Builders Association
- Sedgwick County Commission

Online Survey

- Over 1,600 responses
- #1 **Barrier** = fear of motor vehicle traffic
- #1 **Improvement** = connect on- and off-road bicycle facilities

Interactive Map

CommunityWalk

Bike Wichita
wichita, kansas

Welcome!! Thank you for taking the time to provide valuable information that will help shape the Wichita Bicycle Master Plan and make bicycling more safe, comfortable and convenient.

First, you must login in order to place markers on the map and make comments. Click "login" in the upper right-hand corner of the page.

Username: wchitaks
Password: wchitaks

Advertisements

Bike Map
Get Maps, Directions & Traffic Conditions with Free App!
www.MapsGalaxy.com

Womens Bikes Up To 60% Off
Best Brands, Full Factory Warranty
Lowest Prices Ever. Free Ship 48 US
www.BikesDirect.com

Categorized Markers

- path needed**
a path from the neighborhood to the bike path would be nice to have so you don't
- Path quality**
Gravels may be to soft and deep making
- Path to Cessna**
in order for cyclists to ride from NW Wichita to Cessna to work, several use ridge, taft, however, this portion of Pueblo/hoover is
- Path to Cessna**
[view locations on separate page](#)

Build This Map | Map Settings | Share / Export

Login to add to this map: [Login](#) [Sign Up](#)

Map | Satellite | Hybrid | Terrain

Map Overview | Legend

Important street for bicyclists
Improvement needed (please specify in description field)
Major barrier (e.g. unfriendly street/bridge, physical obstruction)
Difficult intersection (please say why in description field)
Connection needed (e.g. off-street path/trail)
Important street for bicyclists
Connection needed (e.g. off-street path/trail)
Bike parking needed
Confusing area
I make bike-transit connection here

Show Marker Titles

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www.MapsGalaxy.com

Comments (27)

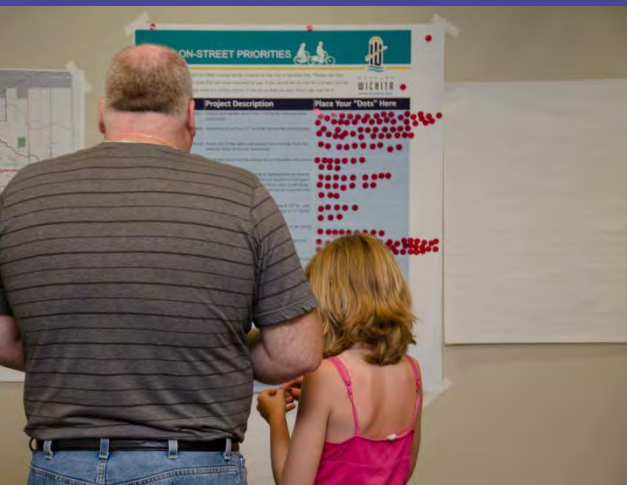
Add A Comment

Map data ©2012 Google

Focus Groups

Bicycle shops
Downtown stakeholders
Developers
Foundations
Health and Wellness Coalition
Chamber of Commerce
Young Professionals of Wichita
USD 259 schools
Inter-Faith Ministries
Wichita Independent Neighborhoods

Open House Events (2)





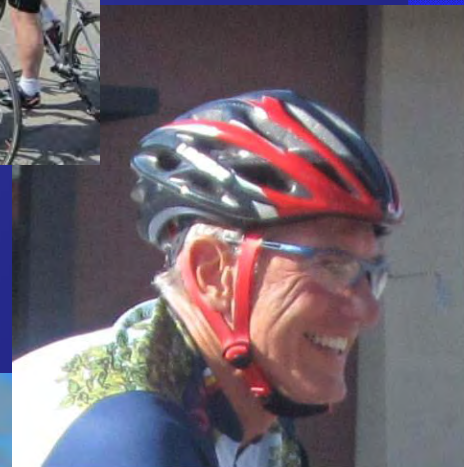


ision, Goals, and Objectives

increase the level
of cycling



increase the
safety of cyclists

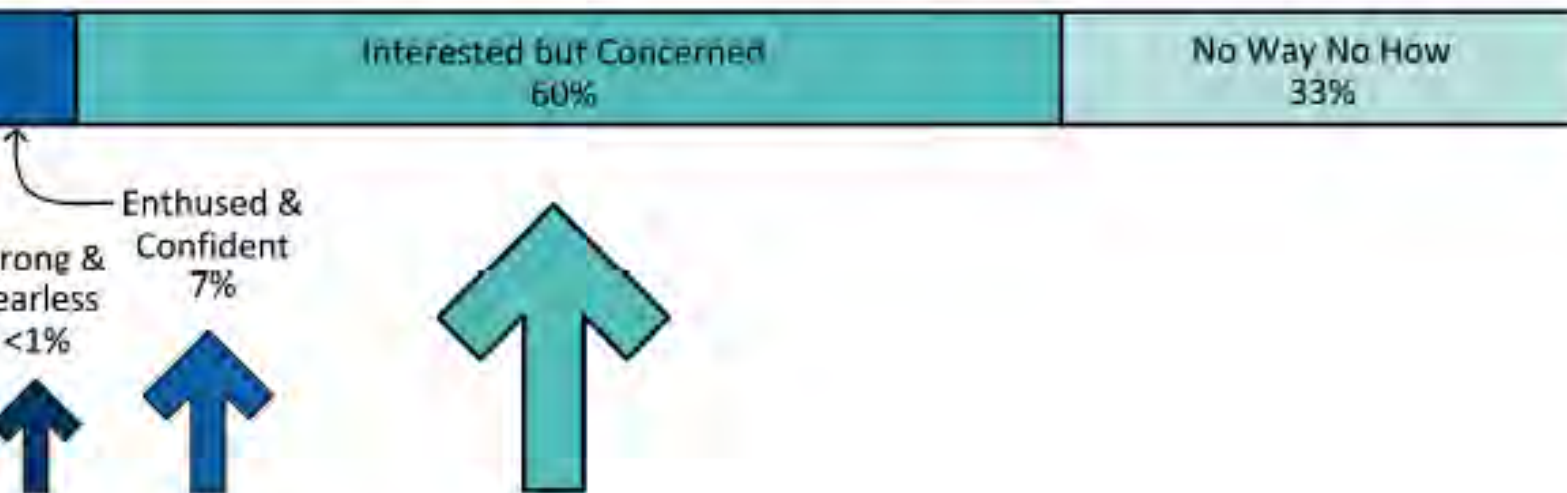


Promote a culture
of bicycling



System for All Bicyclists

Four Types of Transportation Cyclists By Proportion of Population



Shared Use Path





Sidepath

cycle Boulevard





Bicycle Lane

uffered Bicycle Lane



Shared Lane Markings





13' minimum lane width

Wide Outside Lane

Striped/Paved Shoulder

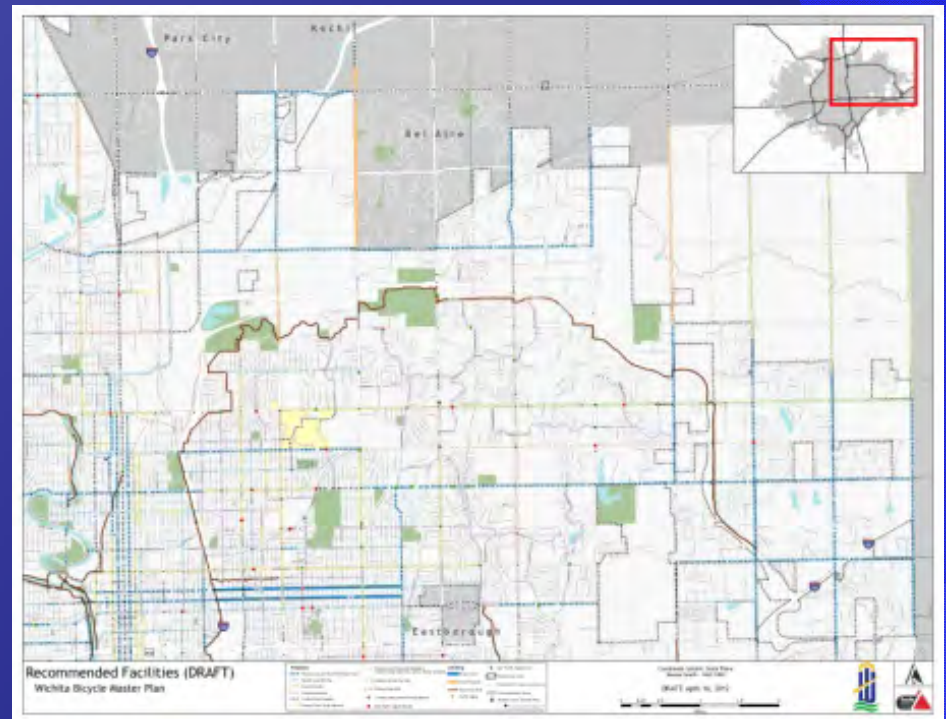


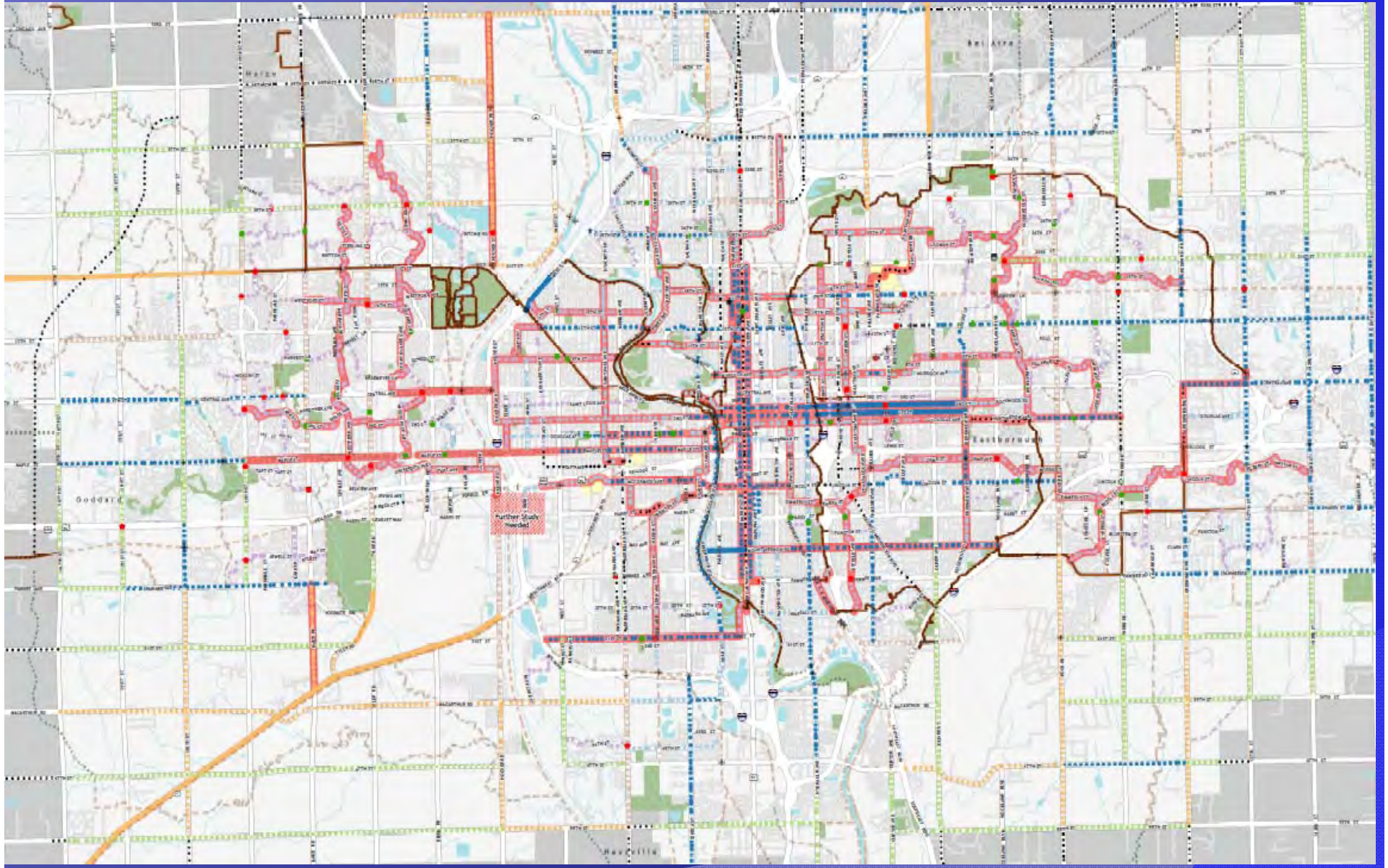
Map Development Process



City-Wide Bicycle Network

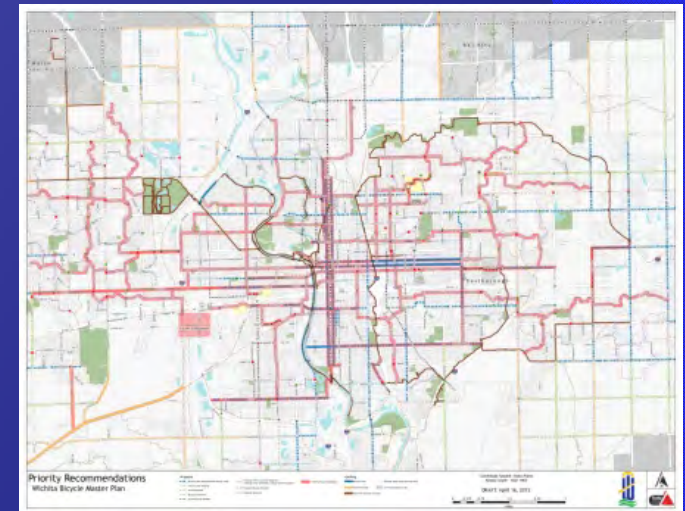
Facility	Miles
Shared Use Pathway	237
Bike Lanes & Buffered Bike Lanes	129
Bicycle Boulevard	124
Side Path	50
Shared Lane Markings	69
Paved Shoulder	47
TOTAL	770



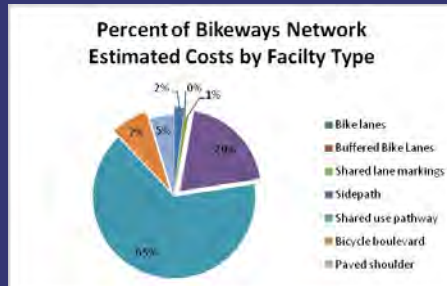


Priority Network – 10 Years

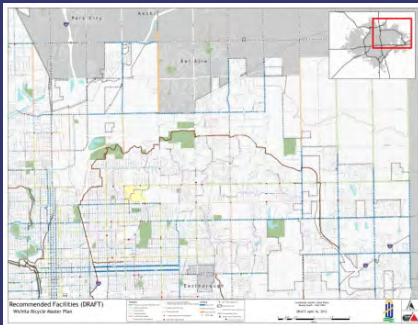
Facility	Entire Network	Priority Network
Shared Use Pathway	237	4.5
Bike Lanes & Buffered Bike Lanes	129	34.8
Bicycle Boulevard	124	57.2
Side Path	50	8.1
Shared Lane Markings	69	38.7
Paved Shoulder	47	5.7
TOTAL	770	149



What will the network be?
(Long-term)



\$58 Million on-street
\$131 Million paths

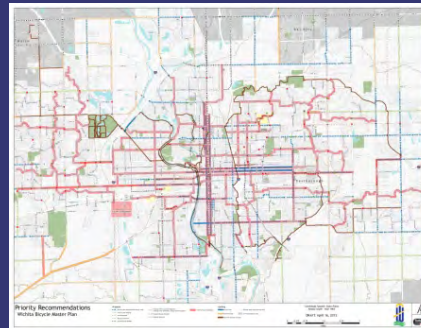


770 miles of new facilities

What is the priority?
(10 years)



\$10 Million on-street
\$2.5 Million paths



149 miles of new facilities

Where do we start?

Top 10 on-street
Top off-street (path)

\$2.1 Million on-street
\$2.4 Million paths

42 miles on-street
4.5 miles path

Funding Note -

- ◎ The endorsement of this plan by the City Council did not allocate funding.
- ◎ Allocation of funding will require separate actions.

Planning Level Cost Estimates

Facility Type	Cost Estimate per Mile
Bike Lanes (with parking)	\$22,000
Buffered Bike Lanes	\$28,000
Shared Lane Markings (with parking)	\$15,000
Bicycle Boulevard	\$110,000
Shared Use Path	\$520,000
Paved Shoulder	\$250,000

For comparison:

1 mile of 5 Lane Arterial Street = approximately **\$4,000,000**

How to Build the Network?

1. Stand alone projects
2. Part of other projects



Routine Accommodation

Bicycle Facilities
incorporated into road
resurfacing &
reconstruction projects

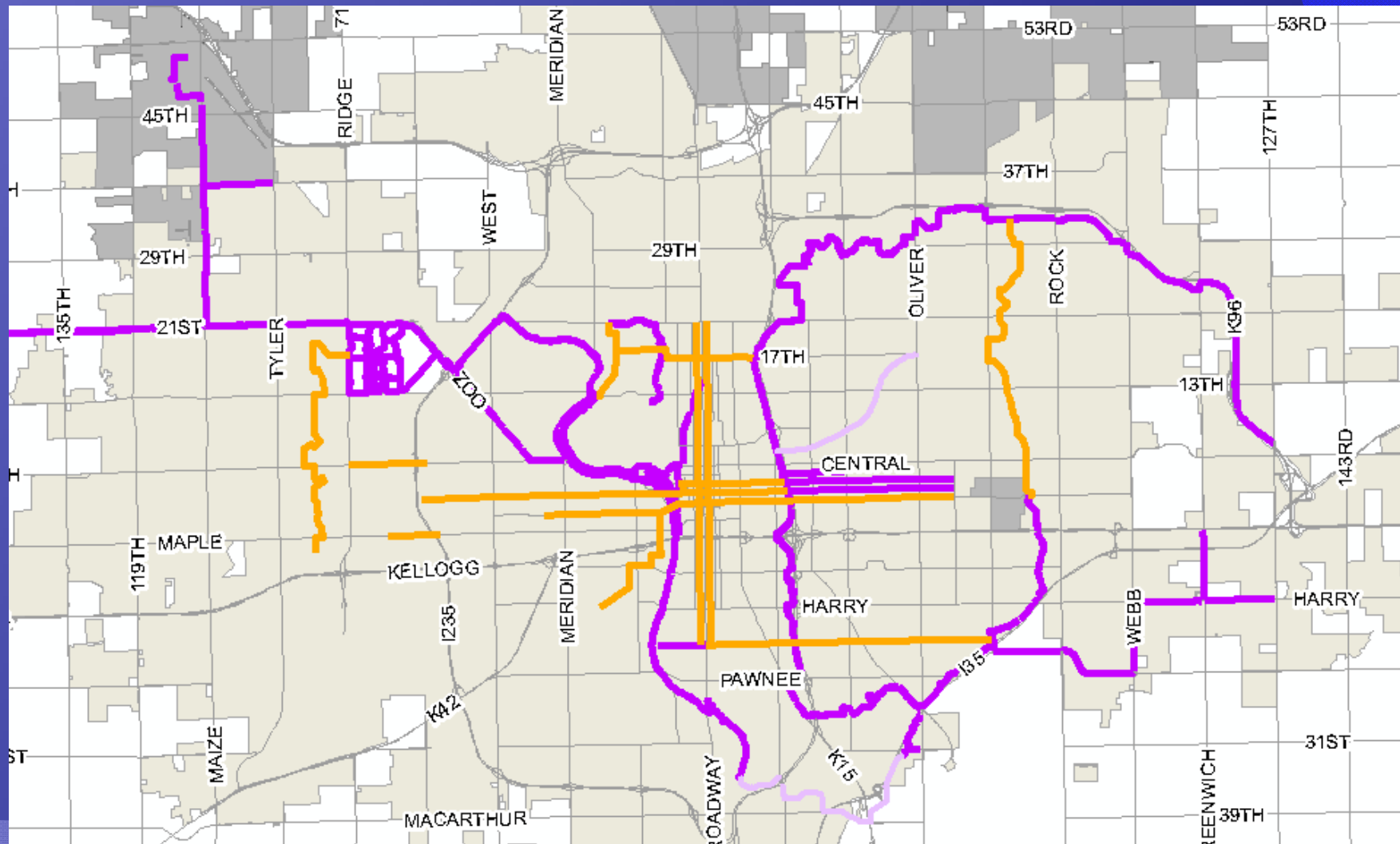


Funding

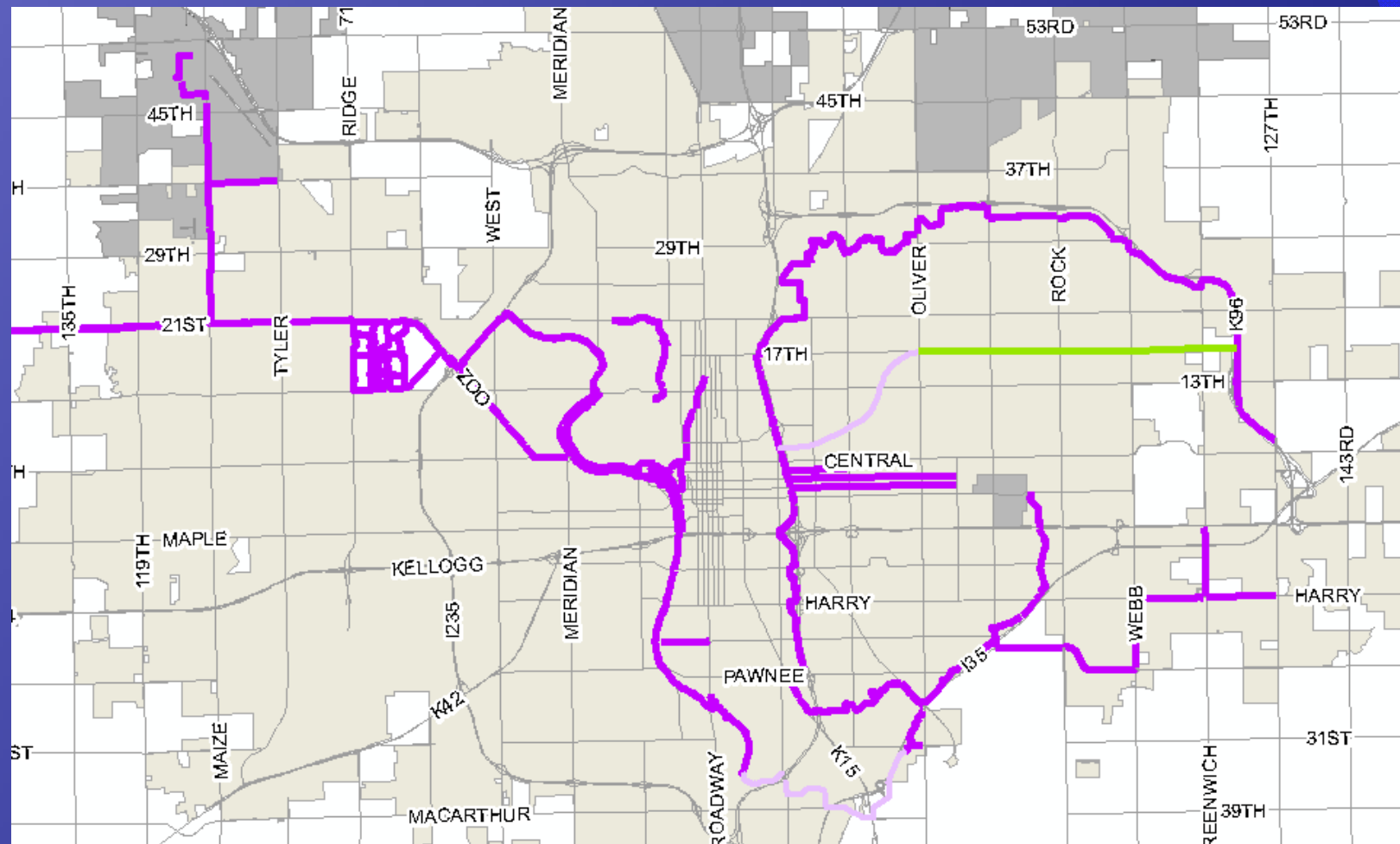
- City's Capital Improvement Program
\$500,000 every other year
(\$2.5 million over 10 years)
- Possible Federal funding
Potential to apply for up to \$10
million over 10 years
(if the current \$2.5 million is used as
the local match)



Top 10 On-Street Projects (Orange)



Priority Off-Street - Shared-Use Path (Green)



Policies and Programs

Bicycle Pedestrian Advisory Board

Annual maintenance plan

Routine Accommodation

Wayfinding system

Bicycle parking

Education and enforcement

Complete Streets Policy

And more...

Performance Measures

(How we measure progress on Plan implementation)

	Strategy	Performance Measure	Performance Target
	Provide bicycle facilities on designated streets and off-street bicycle facilities	Number of miles of new facilities installed	Average of 12 miles/year
	Install a Signed Bicycle Route Wayfinding System	Number of miles of signed bicycle routes	Average of 20 miles/year
	Improve bicycle safety and access at arterial roadway crossings	Number of roadway crossing improvements	Average of 2 crossing improvements per year
	Improve bicycle access to transit	Number of locations with improved bicycle access	Average of two per year
	Increase the availability of bicycle parking throughout Wichita	Number of bike racks installed	Install average of 25 bike racks per year
	Determine if a BikeShare program would be good for Wichita	Study Completed	Study Completed

Implementation







Bicycle and Pedestrian Advisory Board

Created by ordinance

11 members

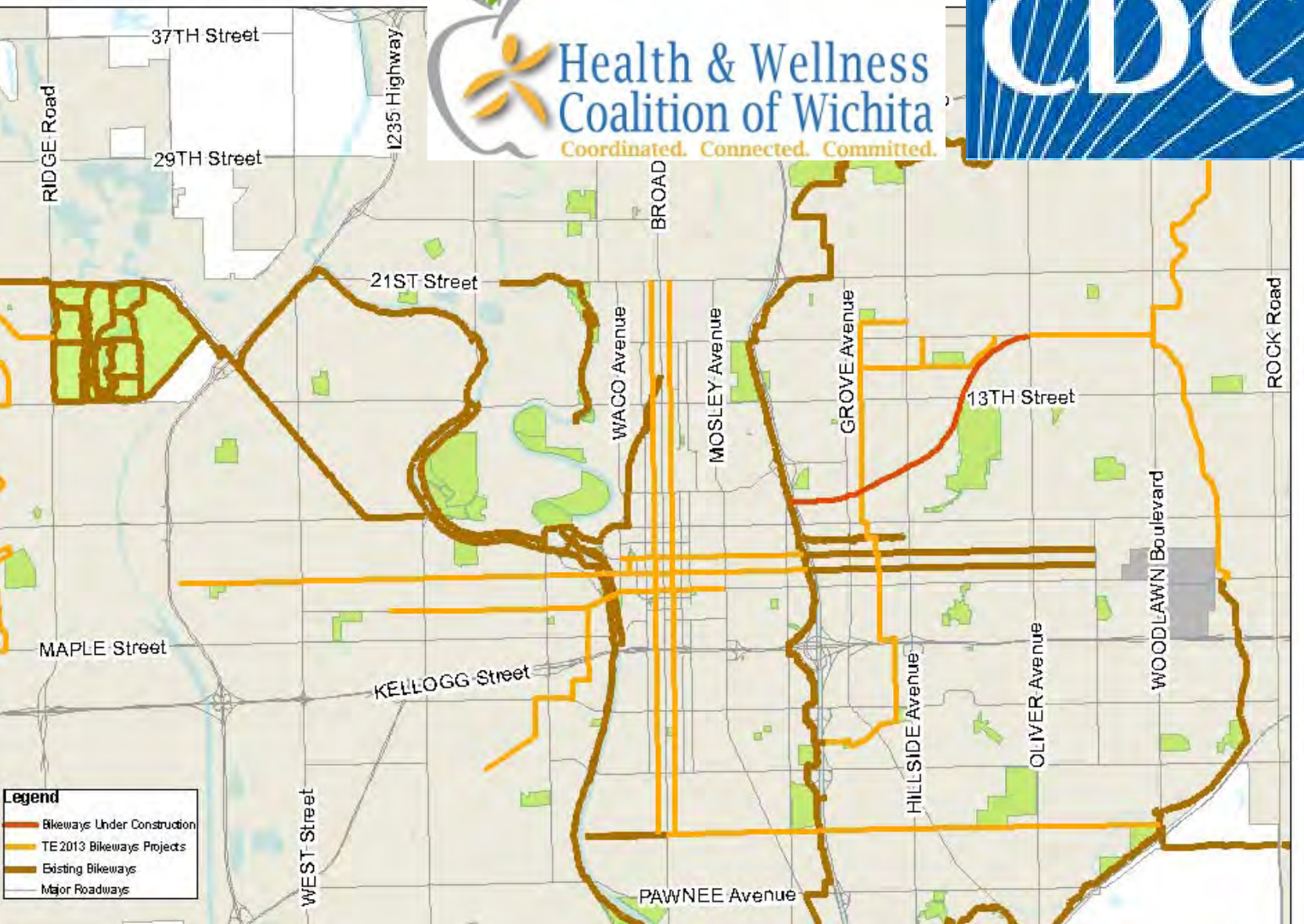
Meets once a month

Application process prior to appointment

Reflects the community

Accountability

3 Design Projects





1: Top Ten Recommended Priority On-street and Side Path Bicycle Facilities (arranged alphabetically)

	Description
2nd Street Bike Lanes	Extend existing bike lanes from I-135 to the Arkansas River (east/west)
et Bike Lane and Shared Lane s	Install mix of bike lanes and shared lane markings from the Arkansas River to Hoover (east/west)
Ave Bicycle Boulevard	Install bicycle boulevard from Huntington Ave to K-96 (north/south)
Avenue Shared Lane Markings	Install shared lane markings from St. Paul Ave to Edgemoor Ave (east/west)
st/West Crossing: Central Ave e St	Pending further study, install a side path connection under I-235 and across the "Big Ditch" (east/west)
St & Topeka Ave Bike Lanes	Install bike lanes from 21st St to Mt Vernon Rd (north/south)
on Bike Lanes	Install bike lanes from Broadway Ave to Woodlawn Blvd (east/west)
an Crossing Signal & Bicycle rd	Install signal to cross Ridge Road and Westport Ave to provide access to Sedgwick County Park; install bicycle boulevard starting at Ridge and going west to Glenhurst Street; then south along Holland Ln/ Country Acres Ave/Woodchuck to University Ave (north/south)
e Bicycle Boulevard + 17th / Shared Lane Markings	Install bicycle boulevard starting at Perry Ave & 13th St., and going north to via Perry/Portier/20th/Coolidge to 21st Street (north/south) + Install shared lane markings on 17th, then 18th St from I-135 to Perry Ave (east/west)
e St Bicycle Boulevard	Install bicycle boulevard starting at Sycamore and Douglas and going south to Glenn St via Dayton, Osage, McCormick, Dodge and Orient. (north/south)

9 of 10!

2: Top Priority Off-Street (Shared Use Path) Bicycle Facility

	Description
Path – Oliver to	Construct path on former railroad right-of-way between Oliver and K-96

1 of 1!

Bikeway Construction

36 Miles

Wichita Capital Improvement Program

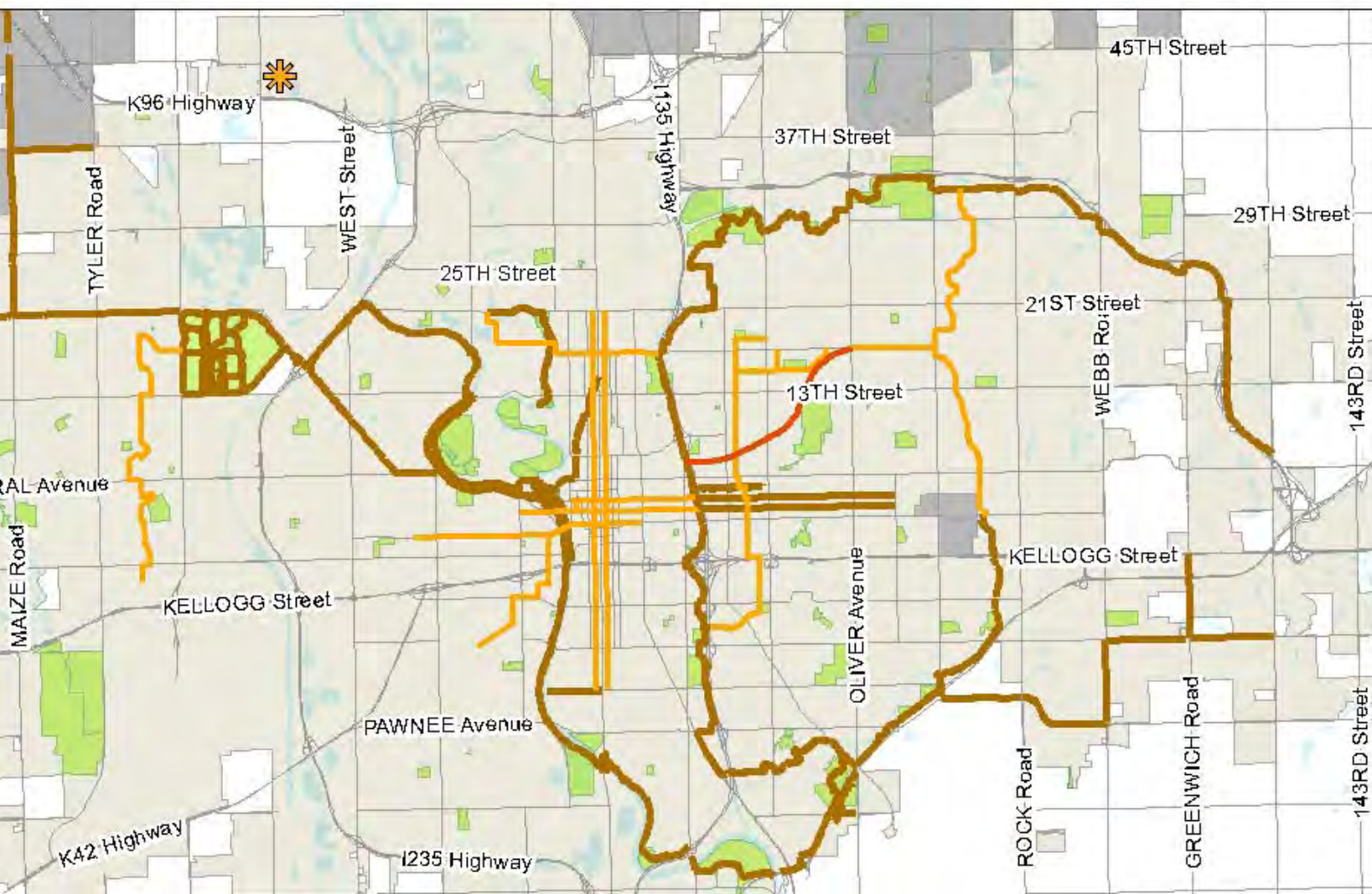
TE – KDOT

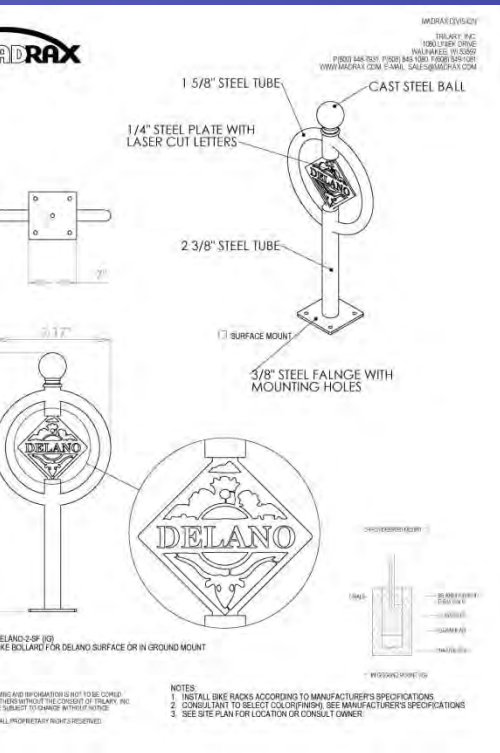
- 1st and 2nd Streets
- Redbud Path – Oliver to Woodlawn
- Market and Topeka

TA – WAMPO

- Woodchuck Bicycle Boulevard
- Douglas Avenue Bicycle Lanes and SLM

Attachment C: Recommended Transportation Enhancement Projects Map





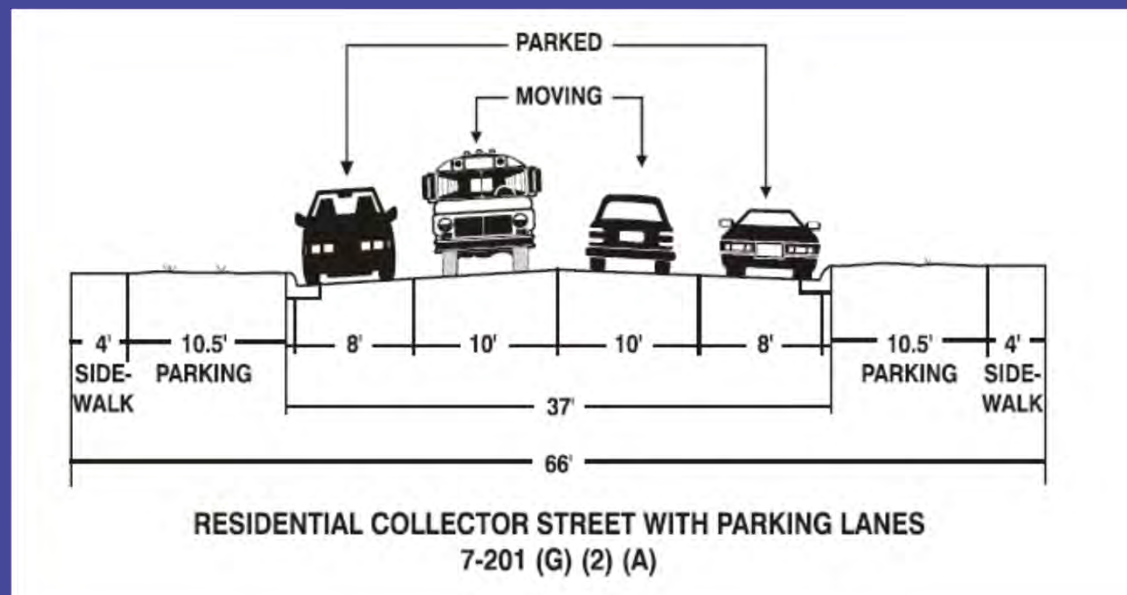
-96 Path Wayfinding



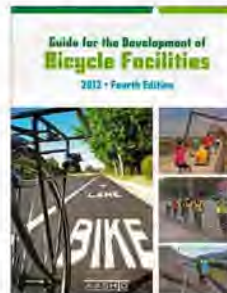
outine Accommodation olicy

2013-2014
development

Include street
designs for
subdivision
regulations



2012 AASHTO Guide for the Development of Bicycle Facilities Training Course



Presented by: Health & Wellness Coalition of Wichita and the City of Wichita

Date: March 22, 2013

Location: City Hall (455 N. Main), 10th Floor (Large Conference Room)

Time: 9:00 a.m. – 4:30 p.m.

Registration: \$50/person due by March 20th

The AASHTO Guide is a key resource for local transportation professionals and consultants in designing, building, modernizing and preserving safe and efficient bicycle facilities in Wichita. The training will give local practitioners and consultants the knowledge they need to implement innovative design solutions, and new signs, signals and pavement marking for bicyclists.

The guidelines will be utilized for the development of bicycle facilities in Wichita. The City plans to release RFPs for bicycle facility designs in the near future. Attendance is highly recommended for any organization interested in applying for these projects.

Registrations are due by Wednesday, March 20th, payment included.

Questions? Please contact Mim McKenzie at 264-4066 x 5558 or

mim@wichitamca.org



WICHITA PEDESTRIAN MASTER PLAN



Bicycle Counts

WAMPO

on the *GO* with WAMPO

- Pedestrian
- Bicycle

Automatic Counters



Wayfinding System Plan





Alliance for Biking & Walking

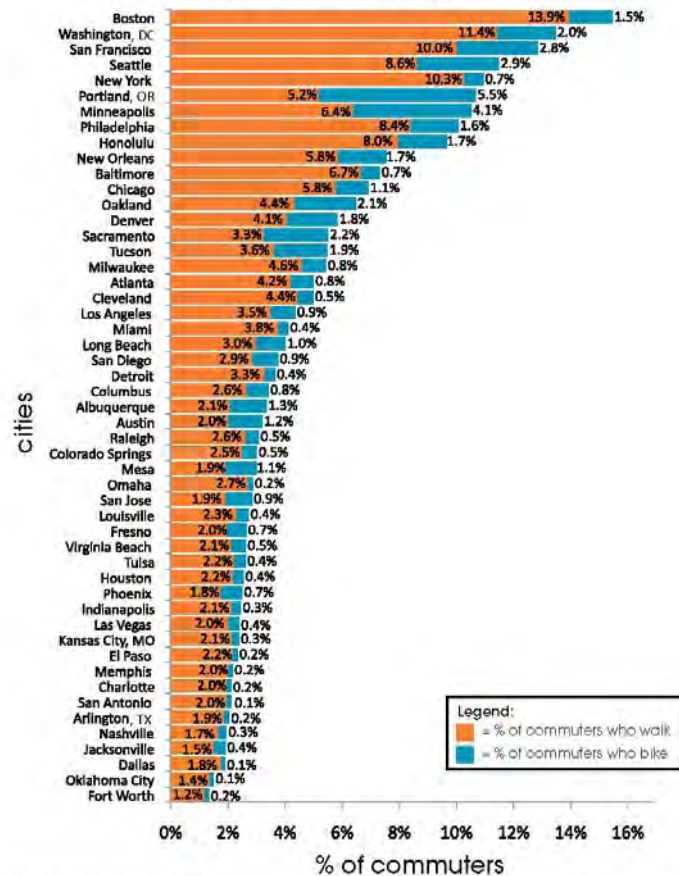
BICYCLING AND WALKING IN THE UNITED STATES

2012

BENCHMARKING REPORT



Share of Commuters Who Walk and Bicycle in Largest U.S. Cities



Source: 2007-2009 ACS (3-year average) Note: For a discussion of the challenges with determining accurate levels of bicycling and walking, see Appendix 3.

Bicycling and walking mode share is significantly higher in cities. On average 5.8% of commuters in the largest U.S. cities bike or walk to work. Boston (15.4%) leads Washington, DC (13.4%), San Francisco (12.8%), and Seattle (11.5%) as the cities with the highest rate of bicy-

**Boston ranks
top for bicycle
+ walk to work**

Get a Walk Score:

Search

Walk Score Blog

» [Attractive Alleys Draw Pedestrians](#)

» [5 Barriers to Women Bicycling More](#) »

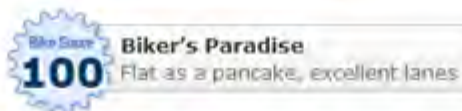
Bike Score Expands to 25 U.S. Cities

December 18th, 2012 by [Jacelyn Milici Ceder](#)

By popular vote, we now have Bike Score in 25 U.S. cities and 11 Canadian cities—for any address. How bikeable is your office? School? Home? Hotel? If you live, work or play in any of these US cities, you can now find a Bike Score for anywhere inside the city limits.

America doubled the number of [protected bicycle lanes "green lanes" in 2012](#) and is projected to double the number of green lanes again in 2013. Danes and Dutch might smirk at the US cycling infrastructure. But it's notable for a country [built for cars, not walkability](#).

[Thousands of cyclists](#) voted for more than 300 cities during National Bike Month 2012. The top 10 voted on cities (for which we could obtain bike data) plus 5 additional cities are now scored. The 15 cities below, combined with the [top 10 Bike Score ranked US cities](#), expands Bike Score to any address within 25 cities.



- #1 voted for city [Cincinnati = Bike Score 37](#)
- #2 voted for city [Austin = Bike Score 45](#)
- #3 voted for city [Pittsburgh = Bike Score 39](#)
- #4 voted for city [Philadelphia = Bike Score 68](#)
- #5 voted for city [Miami = Bike Score 57](#)
- #6 voted for city [Oakland = Bike Score 57](#)
- #7 voted for city [Houston = Bike Score 49](#)
- #8 voted for city [Los Angeles = Bike Score 54](#)
- #9 voted for city [Eugene = Bike Score 75](#)
- #10 voted for city [San Diego = Bike Score 48](#)

5 additional voted on cities also now have a Bike Score including [Ann Arbor = Bike Score 76](#), [Boulder = Bike Score 86](#), [Fort Collins = Bike Score 78](#), [Tempe = Bike Score 75](#) and [Tyler = Bike Score 38](#). Thanks to all who voted.



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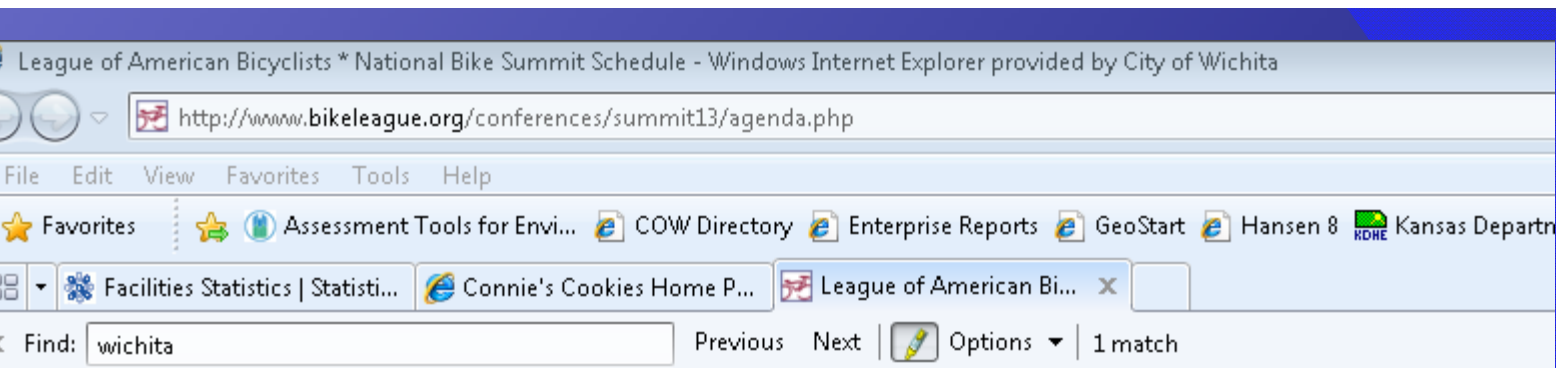
If you have a legitimate business requirement to a

Event Details:

URL: <http://www.facebook.com/plugins/likebox.php?url=2fwalkscore&width=100&scalescheme=light&st>

Category: Social Networking

[Go back to previous webpage](#)



important bicycling projects.

- Blake Trask, Bicycle Alliance of Washington - Preserving Washington's Federal Safe Routes to School Funding and Leveraging Success to the Highway Safety Improvement Program.
- Kyle Lawrence, Shenandoah Valley Bicycle Coalition President Harrisonburg, Va. - The Story of Bicycle Development in a Small Rural City.-

Building Better Blocks - Action Speaking Louder Than Words

Portland, Davis, and Boulder are old news. Dallas, Memphis, and **Wichita**, Kansas are leading the way in bicycle advocacy thanks to the transformative “Better Blocks” campaign. Discover how this innovative technique is revitalizing neighborhoods through temporary infrastructure improvements.

Moderator and Presenter: Jason Roberts, Better Blocks, Oak Cliff, Texas.

Making the Connection between Recreation and Conservation:

Mountain biking intersects with the conservation movement on a

Thank You



www.wichita.gov/bicyclenplan