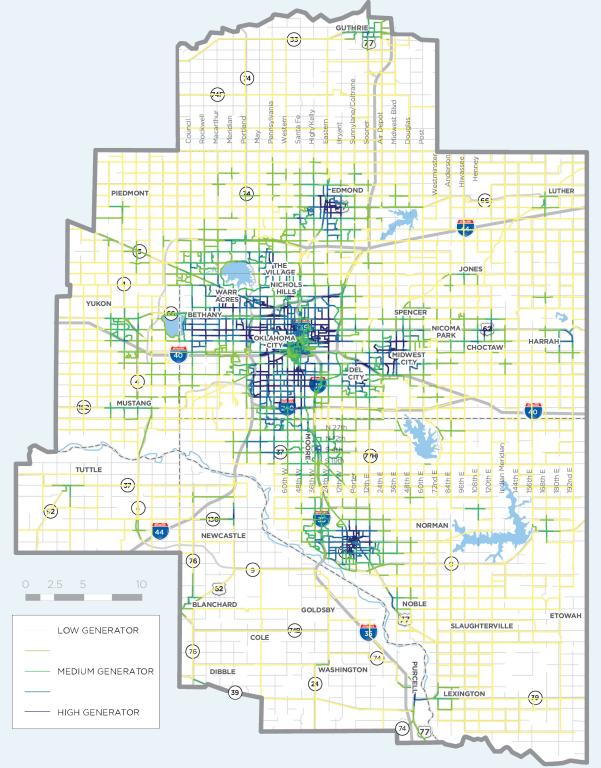
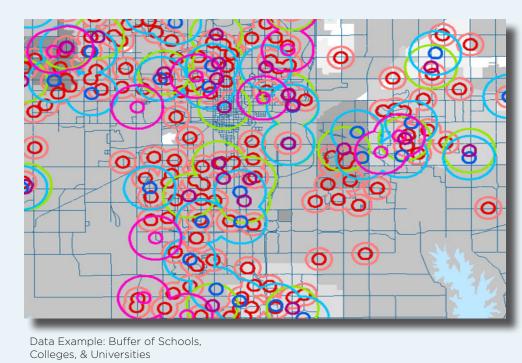
The Association of Central Oklahoma Governments (ACOG) produced the Bicycle Composite Index (BCI) to help city, county, and state planners and officials understand what areas need safe and convenient bicycle facilities, such as bicycle lanes, shared use paths, and trails. The BCI analysis used Geographic Information Systems (GIS) to measure the relationship between where bicyclist activity might be generated and where bicyclists might have difficulty moving about. When combined, this information suggests regional priority areas for investment. The spatial relationship for the various locations that generate and deter bicyclist activity were calculated, the appropriate score was added as a field to each layer, then joined to the road segments that intersect the layer using the spatial join tool.

This index was created as part of the Oklahoma City Area Regional Transportation Study (OCARTS) Regional Active Transportation Plan (2021).

AREAS THAT GENERATE BICYCLIST ACTIVITY

To determine which roads are generators of bicyclist activity, locations such as transit stops, parks, public libraries, schools, universities, bikeable businesses, and communities of concern were all measured and scored based on specific criteria (see tables below).



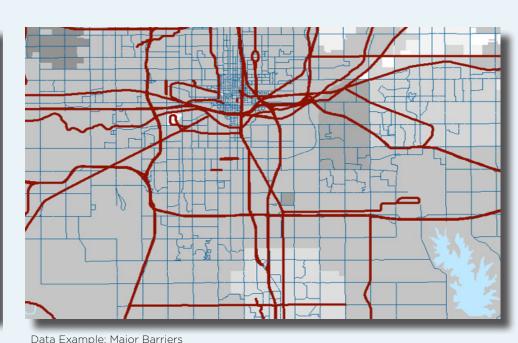


BICYCLE GENERATOR	SPATIAL RELATIONSHIP
	Area within 1/2 mile of an Elementar
ELEMENTARY SCHOOL	Area within 1 mile of an Elementary
	Area within 1/2 mile of a Middle Sch
MIDDLE SCHOOL	Area within 2 miles of a Middle Scho
	Area Wwthin 1/2 mile of a High Scho
HIGH SCHOOL	Area within 2 miles of a High School
	Area within 1/2 mile of a College or I
COLLEGE OR UNIVERSITY	Area within 2 miles of a College or U

AREAS THAT DETER BICYCLIST ACTIVITY

To determine which roads deter bicyclist activity, locations where high levels of bicyclist and pedestrian crashes, large traffic volumes, major physical barriers, more vehicle travel lanes, and areas that lack bicycle facilities were all located then scored based on the criteria below.





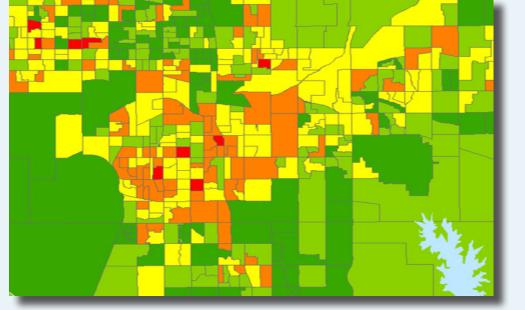
Data Example: Bicycle and Pedestrian Crashes by Traffic Analysis Zone

BICYCLE DETERRENTS	SPATIAL RELATIONSHIP	SCORE
	High Density in TAZ	1
CRASHES	Medium-High Density in TAZ	0.75
	Medium-Low Density in TAZ	0.5
	Low Density in TAZ	0.25
TRAFFIC VOLUME	Roads with AADT greater than 15,000	1
	Roads with AADT between 5,000 and 14,999	0.5
	Roads with AADT less than 4,999	0
MAJOR BARRIER	Road intersects with a Major Barrier	1
	Road does not intersect with a Major Barrier	0
NUMBER OF LANES	Road with 5+ Lanes	1
	Road with 3 or 4 Lanes	0.5
	Road with 1 or 2 Lanes	0
	Road with no Bike Facilities within .25 miles	1
BIKE FACILITIES	Road with Bike Lanes within .25 miles	0.5
	Road with Buffered/Protected Bike Lanes or Shared Use Paths within .25 miles	ο

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Hannah Nolen Program Coordinator hnolen@acogok.org

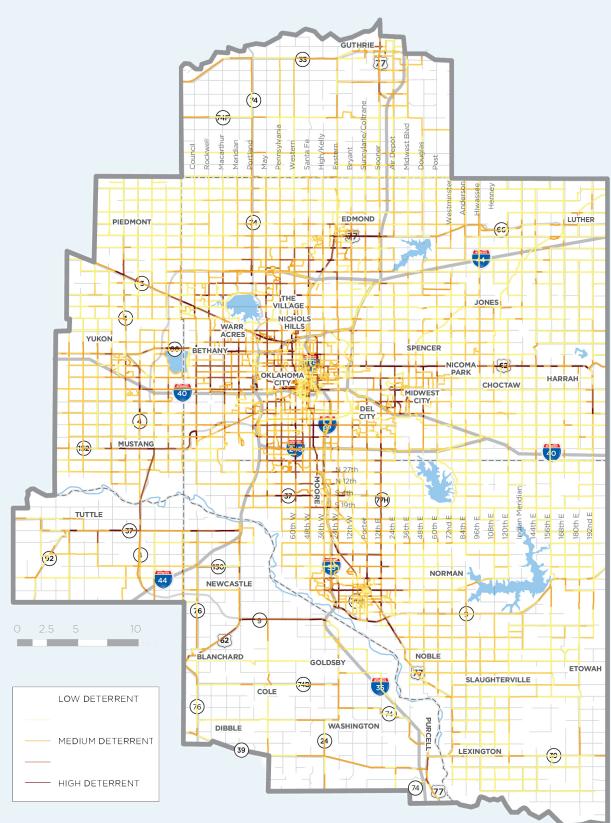
CENTRAL OKLAHOMA **BICYCLE COMPOSITE INDEX**



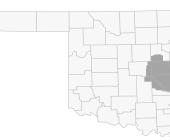
Concern, by Block Group

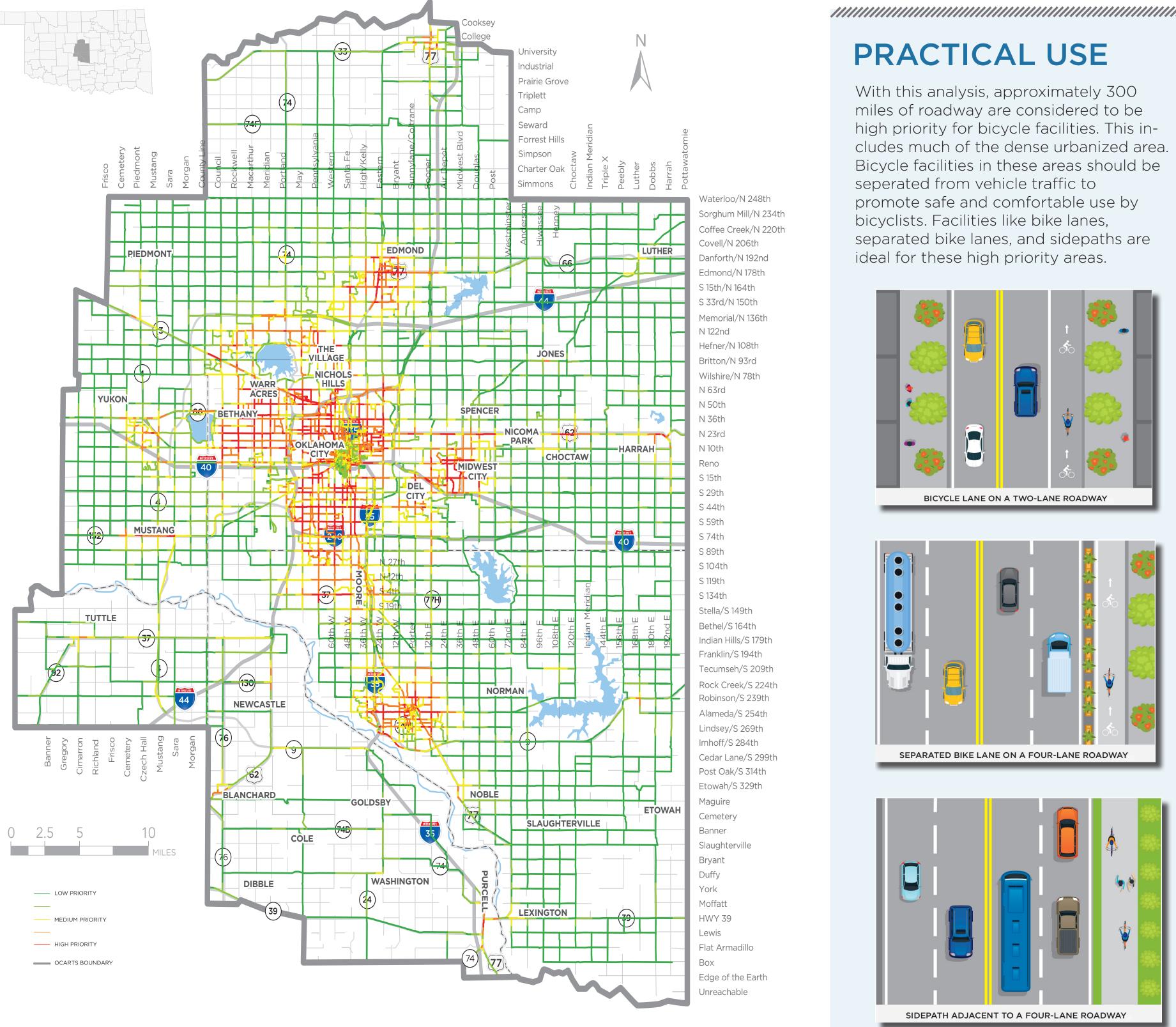
SCORE

BICYCLE GENERATOR	SPATIAL RELATIONSHIP	SCORE
TRANSIT STOP	Area within 1/2 mile of a High-Volume Stop	1
	Area within 1 mile of a High-Volume Stop	0.5
	Area within 1/2 mile of a Low-Volume	0.25
PARK	Area within 1/2 mile of a Park	1
PUBLIC LIBRARY	Area within 1/2 mile of a Public Library	1
SHARED USE PATH / TRAIL	Area within 1/2 mile of a Shared Use Path or Trail	1
	Area within 2 miles of a Shared Use Path or Trail	0.5
BIKEABLE BUSINESS	High Density of Bikeable Businesses in TAZ	1
	Medium Density of Bikeable Businesses in TAZ	0.75
	Low Density of Bikeable Businesses in TAZ	0.5
COMMUNITIES OF CONCERN	High Density in Block Group	1
	Medium-High Density in blockgroup	0.75
	Medium-Low Density in blockgroup	0.5
	Low Density in blockgroup	0.25



To determine the final Bicycle Composite Index, the generator scores and deterrent scores for each road section were joined and averaged together, ensuring they held the same weight.





For more bicycle and pedestrian maps and data from ACOG, visit: https://bicycle-and-pedestrian-resource-center-acog.hub.arcgis.com/ ASSOCIATION OF CENTRAL OKLAHOMA GOVERNMENTS 4205 N Lincoln Blvd Oklahoma City, OK 73105 405.234.2264 acogok.org

DETERMINING THE FINAL BICYCLE COMPOSITE INDEX

Upon final analysis, areas that have a high need for investment in safe bicycle facilities include South Oklahoma City, West Oklahoma City, Midwest City, Warr Acres, West Edmond, and Central Norman.

Scan to view ACOG's Bicycle Composite Index, or visit https://arcg.is/1naqX40

MAPS AND POSTER PREPARED IN AUGUST 2021 BY: ASSOCIATION OF CENTRAL OKLAHOMA GOVERNMENTS http://www.acogok.org/maps-and-data-disclaimer

