2050 Metro Vision Regional Transportation Plan Overview

Summer Subregional Forums (Douglas County Example)
June/July 2019

Presented by:
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INTRODUCTION

DRCOG Overview

- Local governments collaborate to establish guidelines, set policy and allocate funding for:
  - Transportation and Mobility
  - Growth and Development
  - Aging and Disability Resources
- DRCOG is:
  - Council of Governments (9+ counties)
  - Regional Planning Commission
  - Metropolitan Planning Organization (transportation)
  - Area Agency on Aging

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Metro Vision Plan and MVRTP Overview

DRCOG Metro Vision Plan
Shared vision for the future

20-year "vision" transportation system

Metro Vision Regional Transportation Plan (MVRTP)

20-year affordable transportation system

Fiscally Constrained Regional Transportation Plan

4-year program of funded projects

Transportation Improvement Program

Air Quality
Conformity
Reg. Modeling

Project Development NEPA Studies
NEPA – National Environmental Policy Act (1970)

Construct Project

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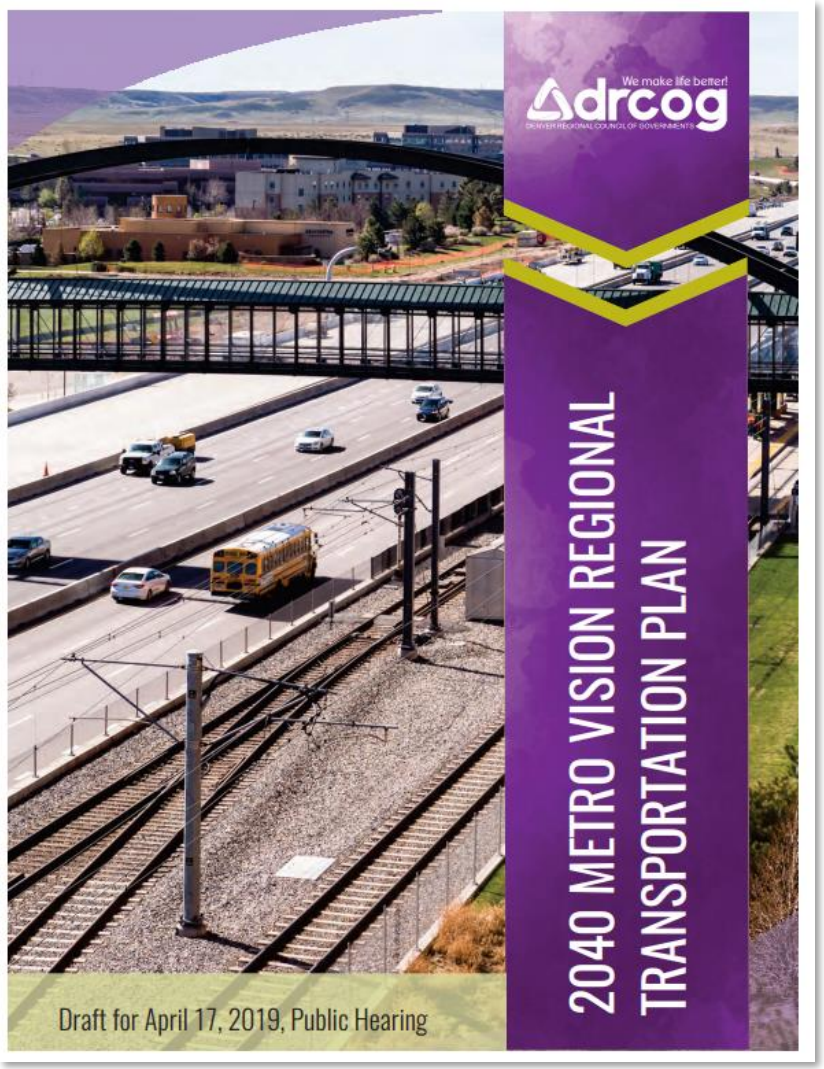
Metro Vision Regional Transportation Plan (MVRTP) Overview



- Presents region's vision for multimodal transportation system
- Identifies "fiscally constrained" (cost feasible) system & project investments
- Identifies major roadway capacity & rapid transit projects
- Determines eligibility for major projects to compete for Transportation Improvement Program funding
- Addresses federal requirements – core MPO function
- Helps implement Metro Vision
- Is updated every four years and amended more frequently

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MVRTP Planning Framework

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DOUGLAS COUNTY DATA PROFILE SUMMARY

DRCOG – a wealth of data and information

- Community profiles
- Census data
- Traffic counts
- Crash data
- Planimetric data
- Project tracking (TRIPS)
- Regional data catalog
- Denver Regional Visual Resources
- Metro Vision Regional Transportation Plan
- Active Transportation Plan
- Mobility Choice Blueprint
- Coordinated Transit Plan
- Multimodal Freight Plan
- Regional Vision Zero Plan

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DRCOG Community Profile – Douglas County

DRCOG Jurisdiction

Douglas County

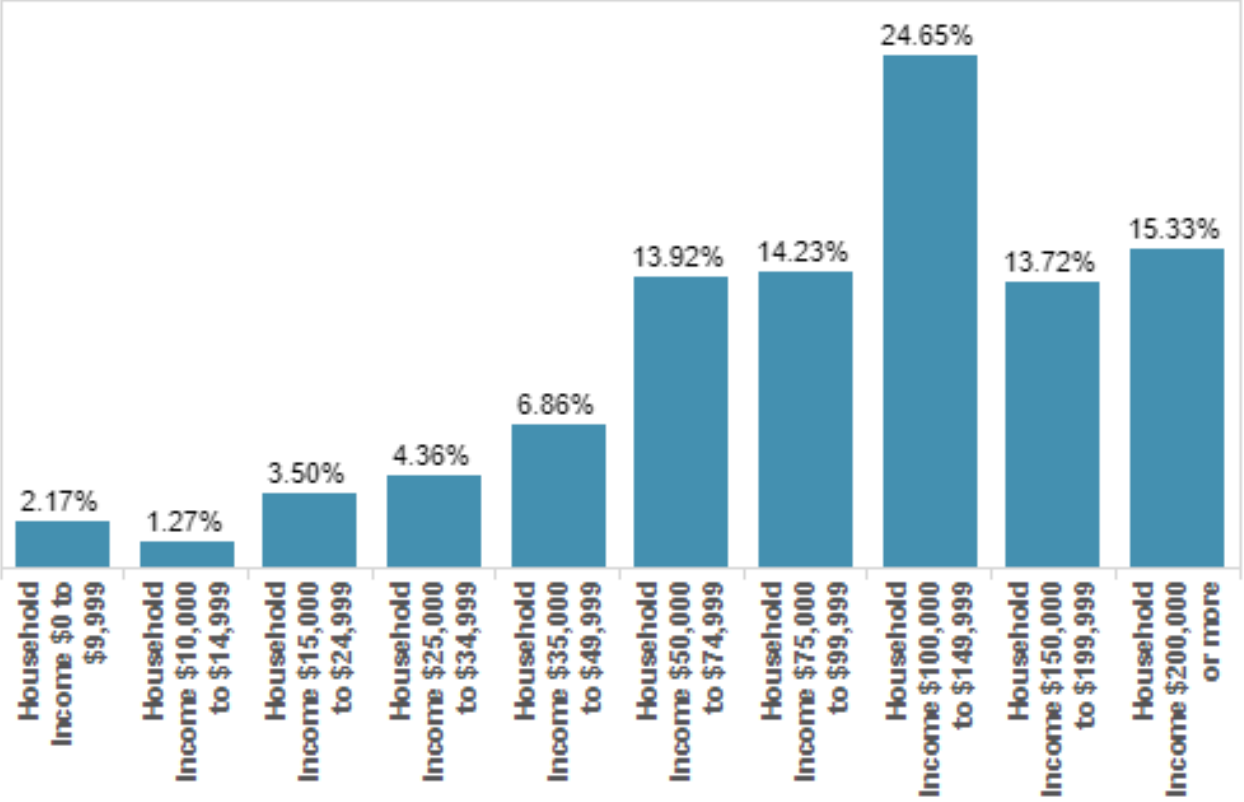
Demographics

DOLA Population	328,330
Households	114,017
Average Household Size	3
Median Age	38
Median Household Income ($)	105,759
High School Diploma or More (%)	98
Bachelor's Degree or More (%)	86
Single Occupancy Commuters (%)	78
Unemployment Rate (%)	4

Housing

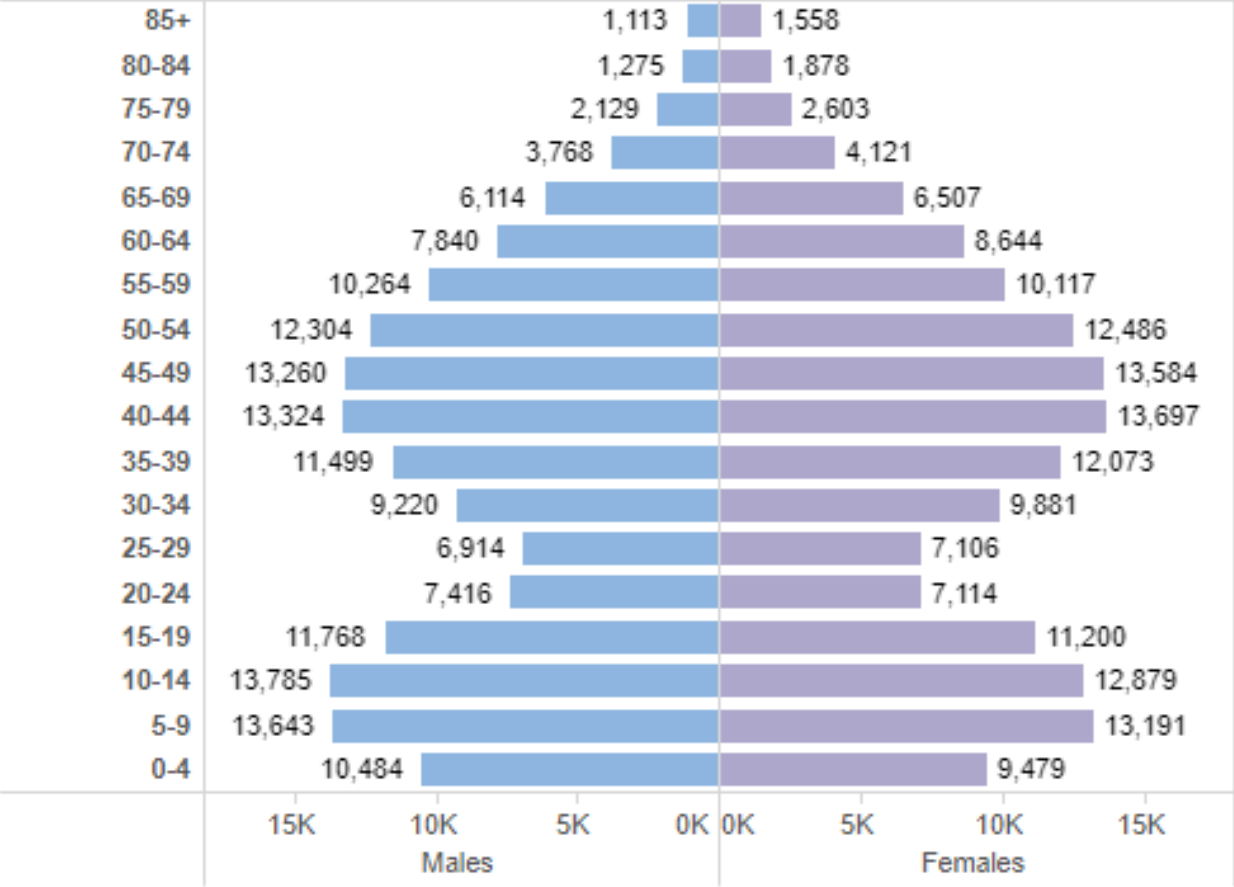
Housing Units	118,178
Occupied Housing	114,017
Owner Occupied Housing	90,730
Median Home Value ($)	376,300
Median Monthly Owner Costs ($)	1,865
Renter Occupied Housing	23,287
Median Monthly Renter Costs ($)	1,459
Multifamily Housing	19,050
Vacant Housing	4,161

Income (Percent of total; income is in 2016 dollars)



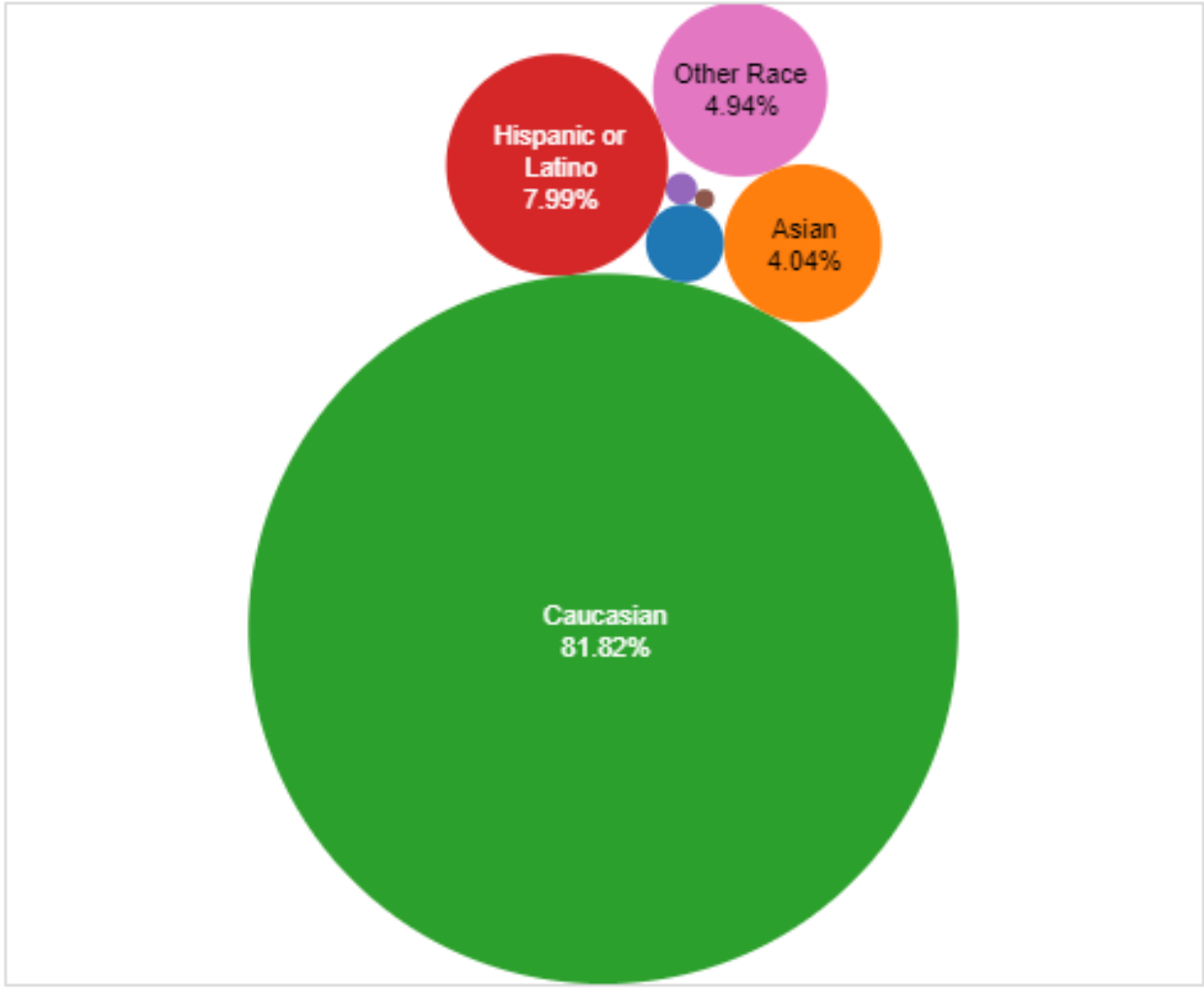
DRCOG Community Profile – Douglas County

Population Pyramid (Count by age group)

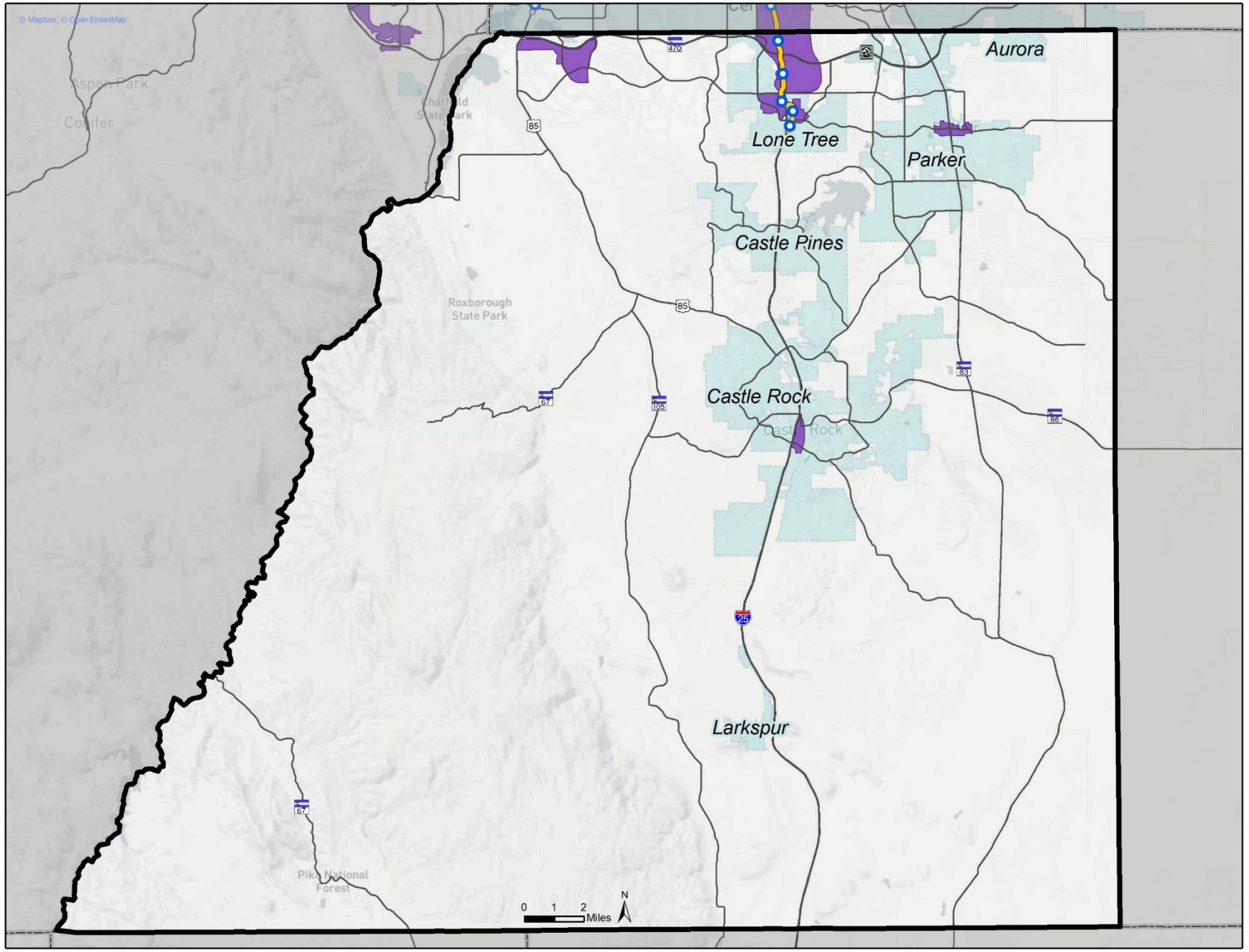


Source: "Population Data 2016" *Colorado Department of Local Affairs.* https://www.colorado.gov/pacific/dola/population-data, "American Communities Survey 5-Year 2016." *US Census Bureau.* http://factfinder.census.gov.

Race/Ethnicity (Percent of total)

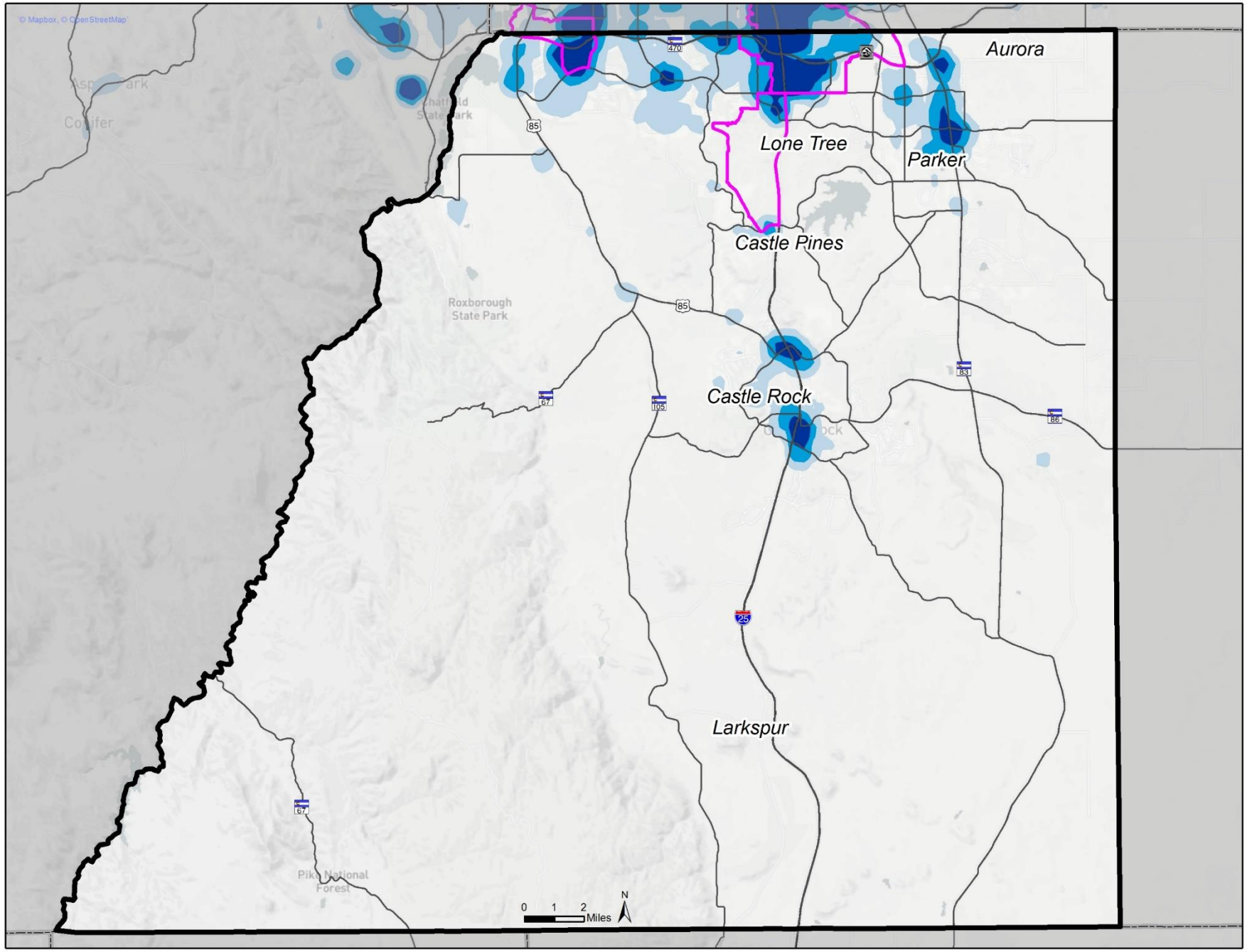


Urban Centers & Major Transportation Network



Douglas County Boundary
Municipality Boundaries
2019 Urban Centers
Road Network
RTD Stations
RTD Rail

Source: DRCOG, ESRI, CDOT, RTD, Local Municipalities, Mapbox

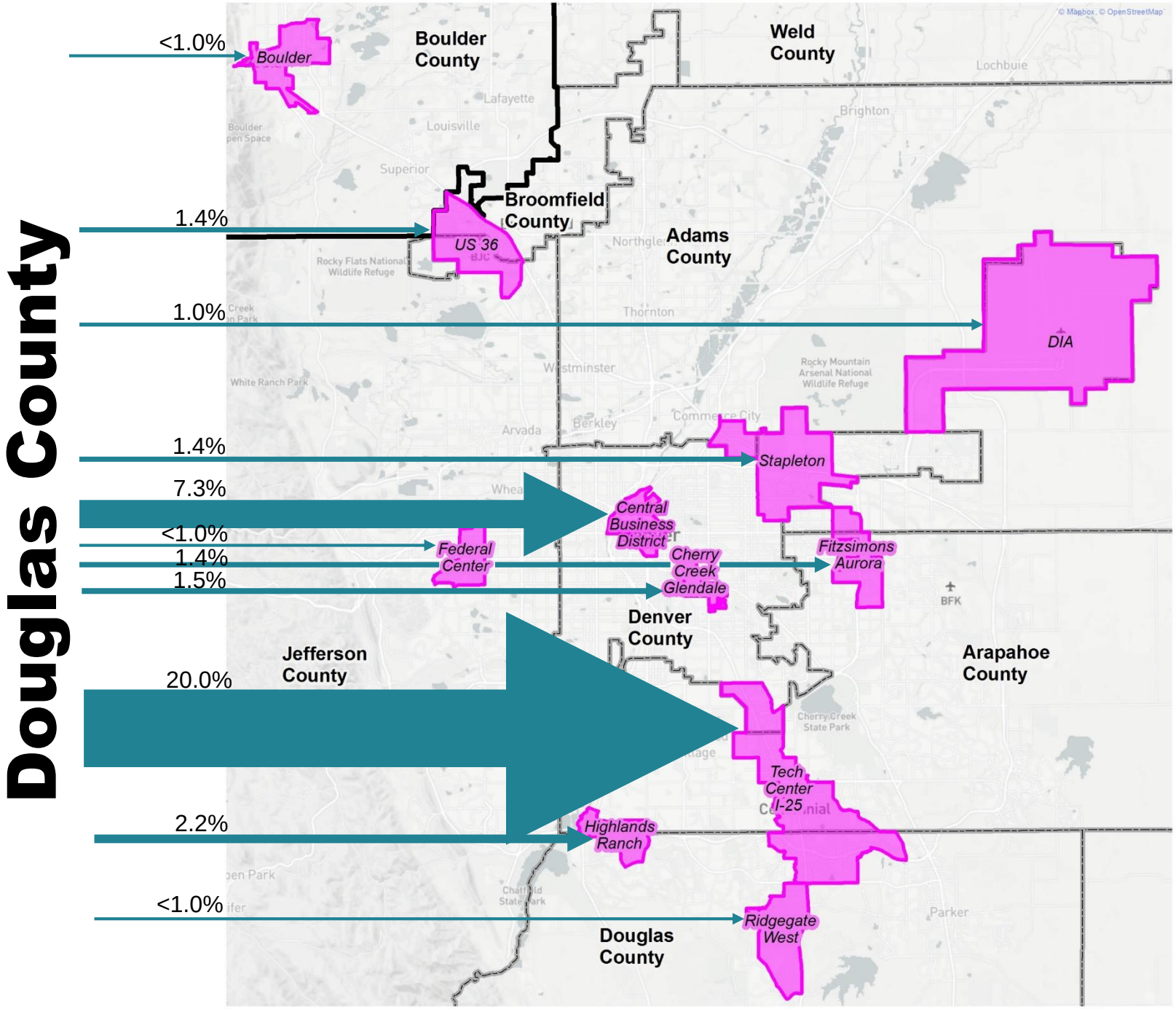


Employment Density

- Douglas County Boundary
- LEHD Employment Centers
- Road Network
- 1.00-2.50 Jobs/Acre
- 2.51-6.00 Jobs/Acre
- Greater than 6.00 Jobs/Acre

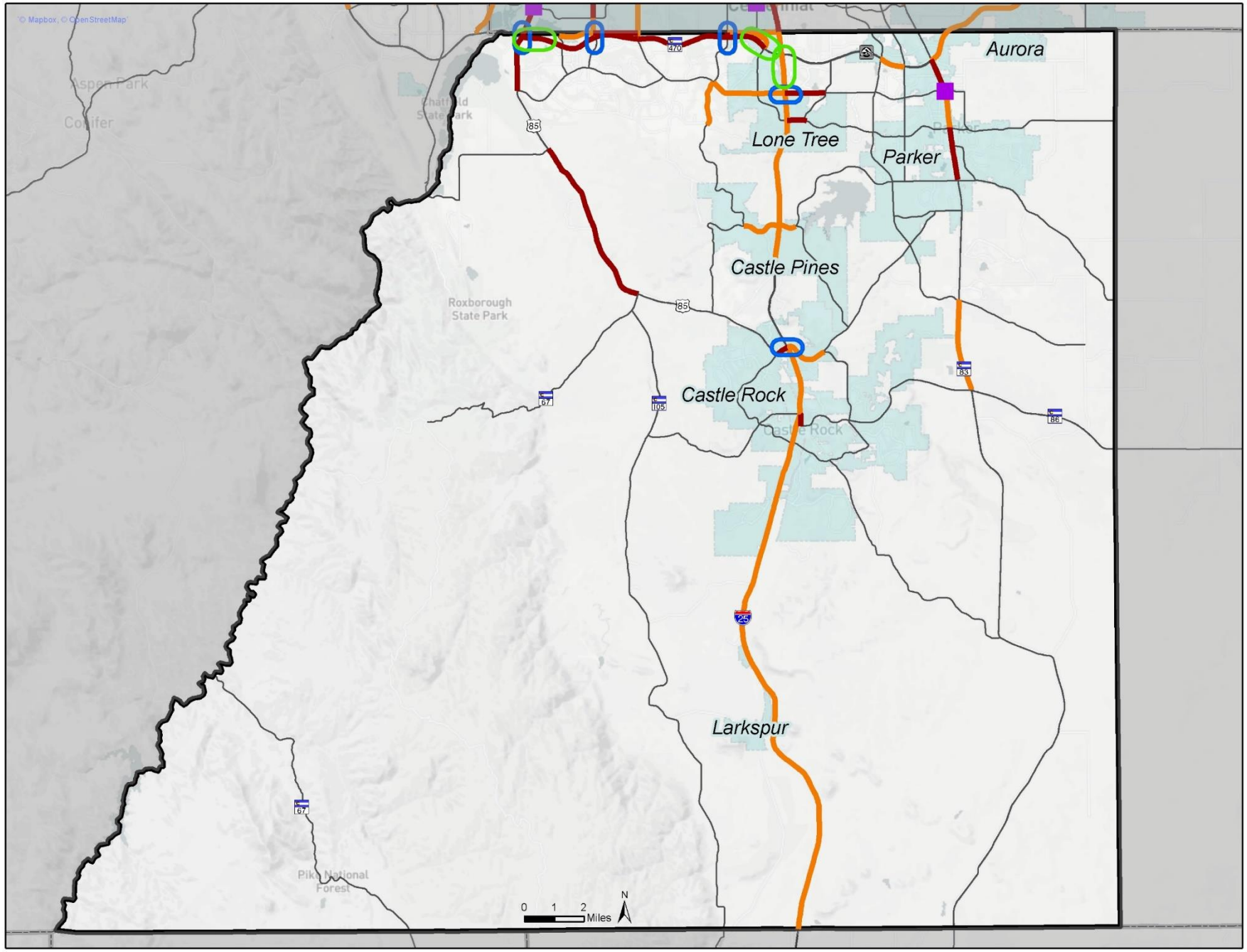
Source: DRCOG, ESRI, CDOT, 2017 Colorado Department of Labor and Employment's Quarterly Census of Employment and Wages, LEHD Employment Centers, Mapbox

Travel to Regional Employment Centers



Source: DRCOG, ESRI, CDOT, LEHD Employment Centers, Mapbox

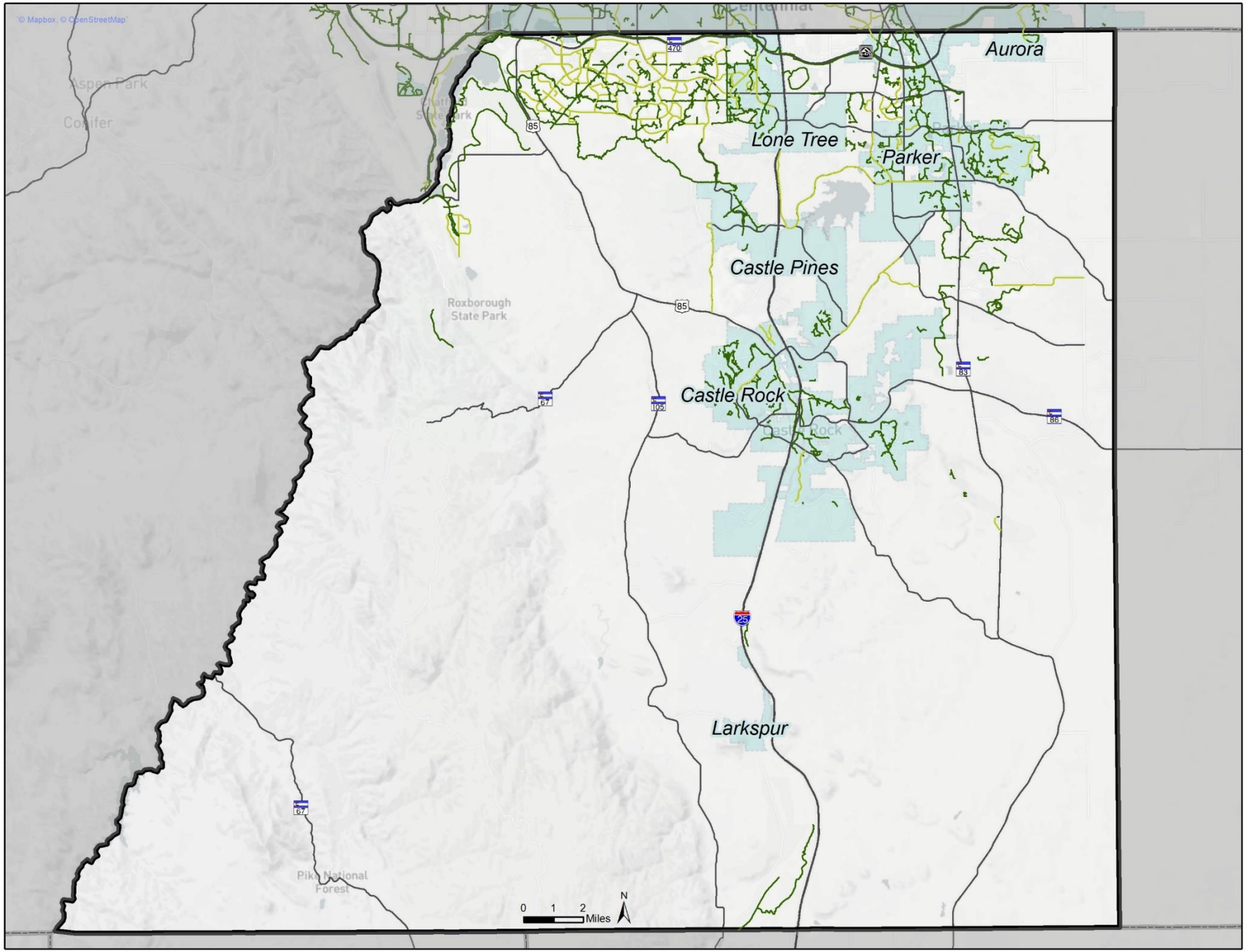
DRCOG Congestion Management Data



Douglas County Boundary
Municipality Boundaries
Road Network
2017 Congested Points
Arterial/Arterial Intersections
Arterial/Freeway Ramp Intersections
Freeway Bottleneck Points
Corridor Congested in 2017
Additional Corridors Congested by 2040

Source: DRCOG, ESRI, CDOT, Mapbox

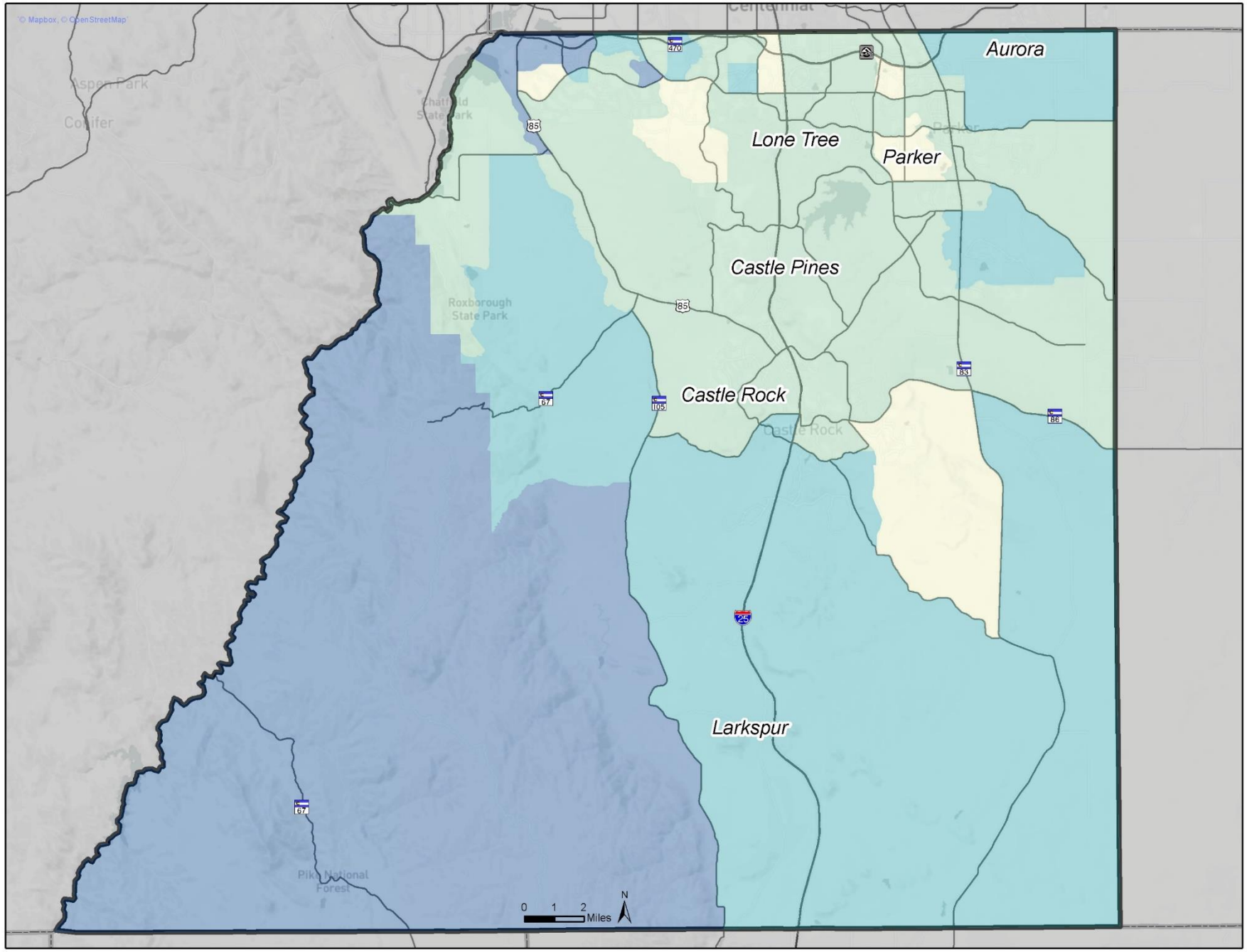
Regional Bicycle Facility Network



Douglas County Boundary
Municipality Boundaries
Road Network
Bicycle Facilities On-Street
Bicycle Facilities Off-Street

Source: DRCOG, ESRI, Mapbox

Older Adult Population Distribution



Douglas County Boundary

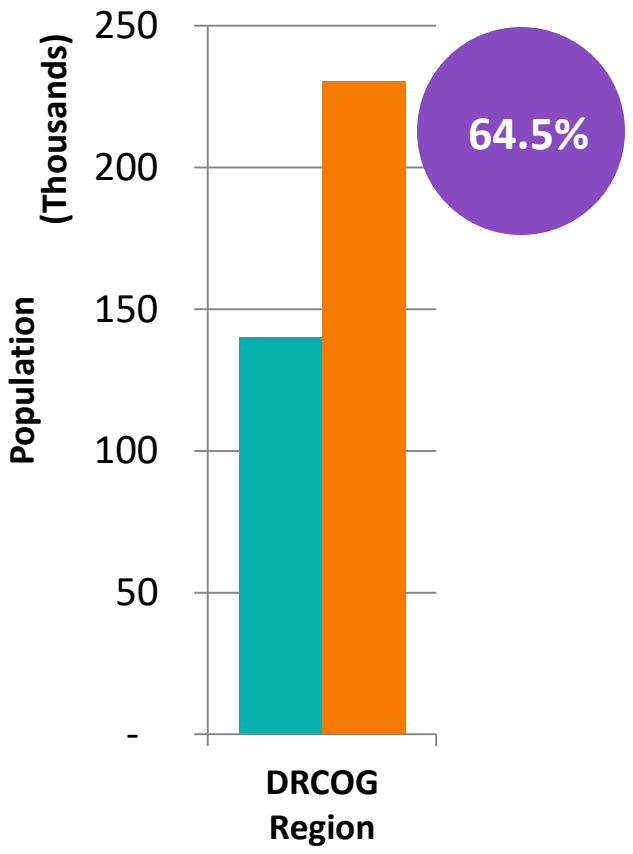
Road Network

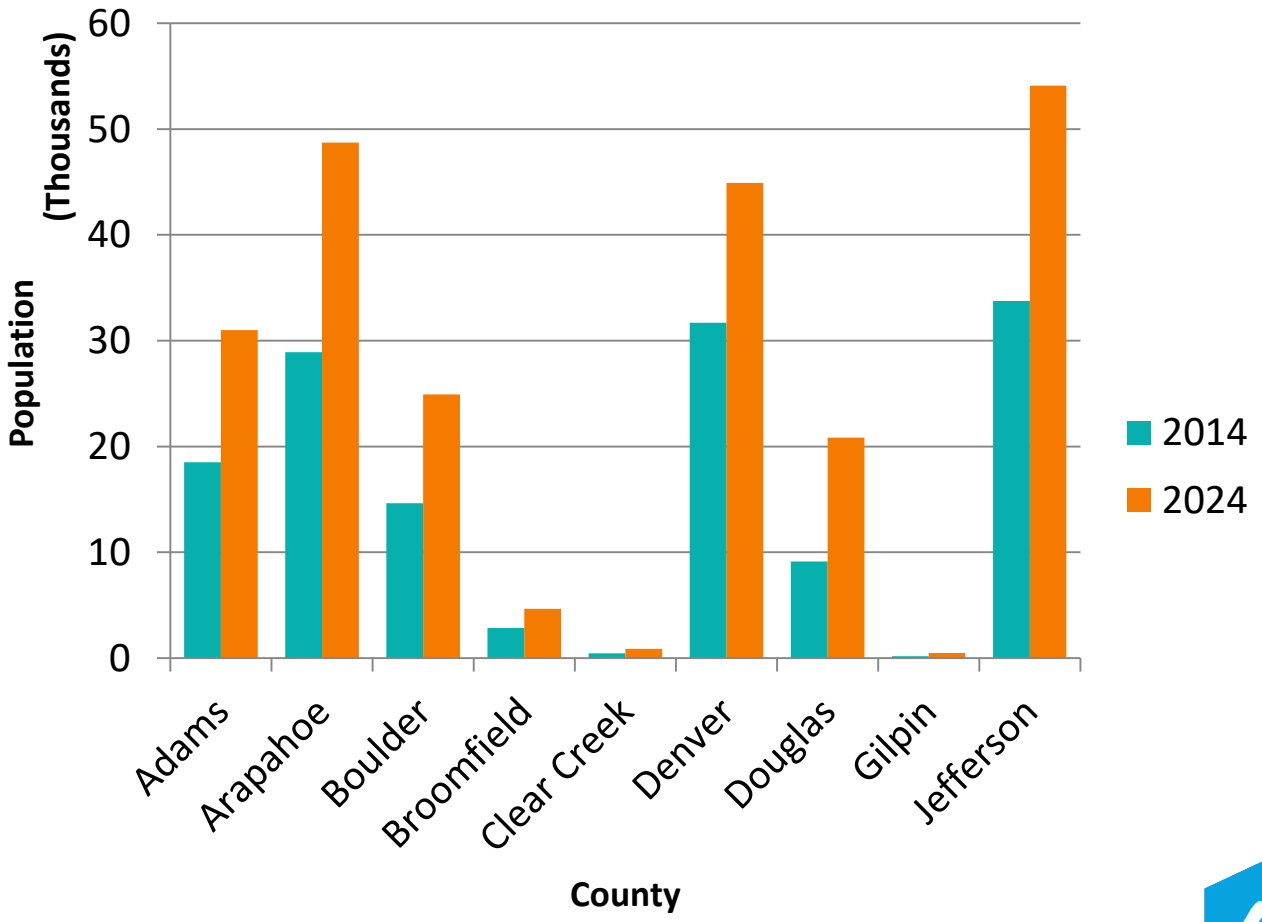
Percent of the Population 60 and Older

- Less than 10%
- 11-20%
- 21-30%
- 31-43%

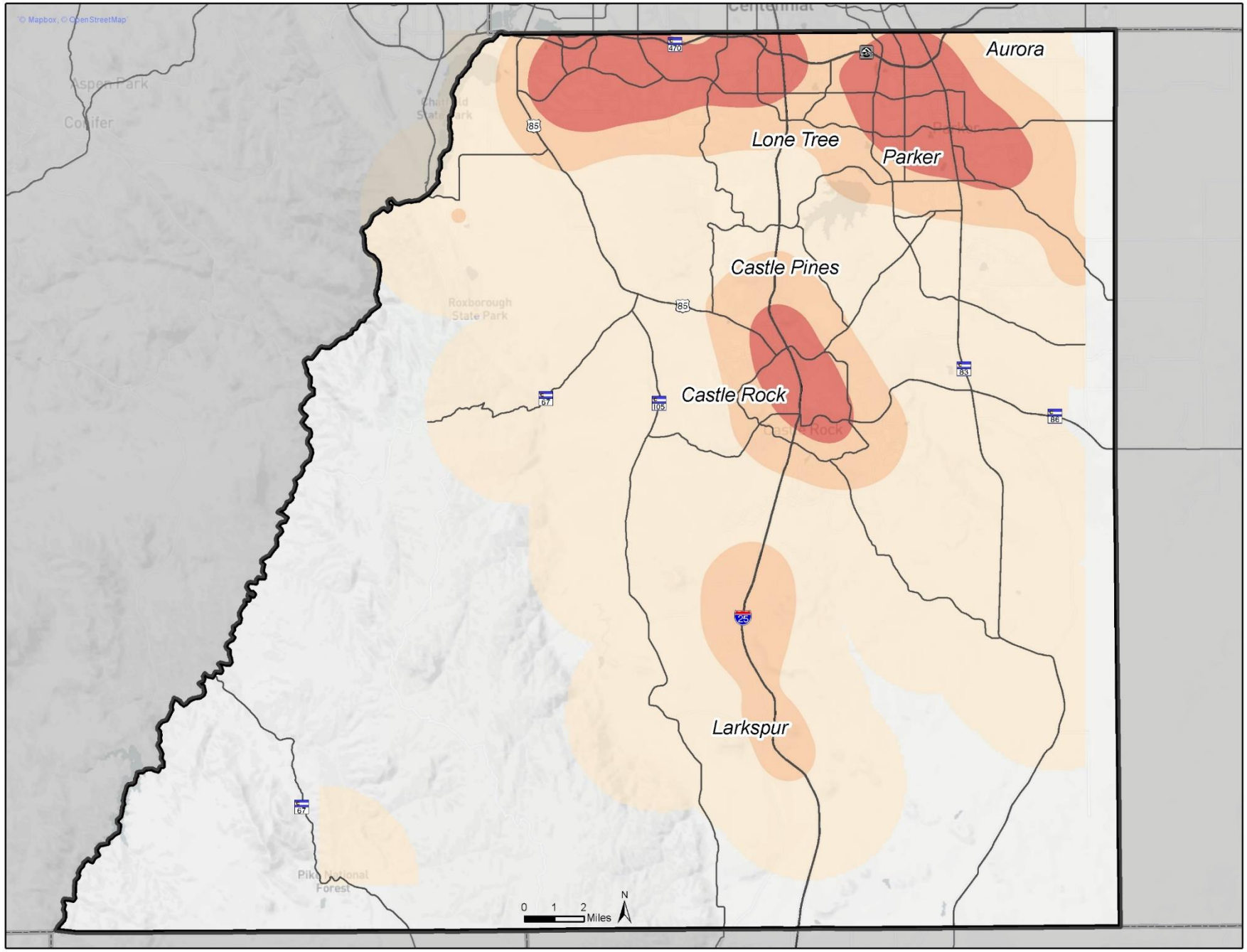
Source: DRCOG, ESRI, 2013-2017 ACS, Mapbox

The Denver region's 75-plus population (2014-2024)





Crash Density – Fatality or Serious Injury



Douglas County Boundary

Road Network

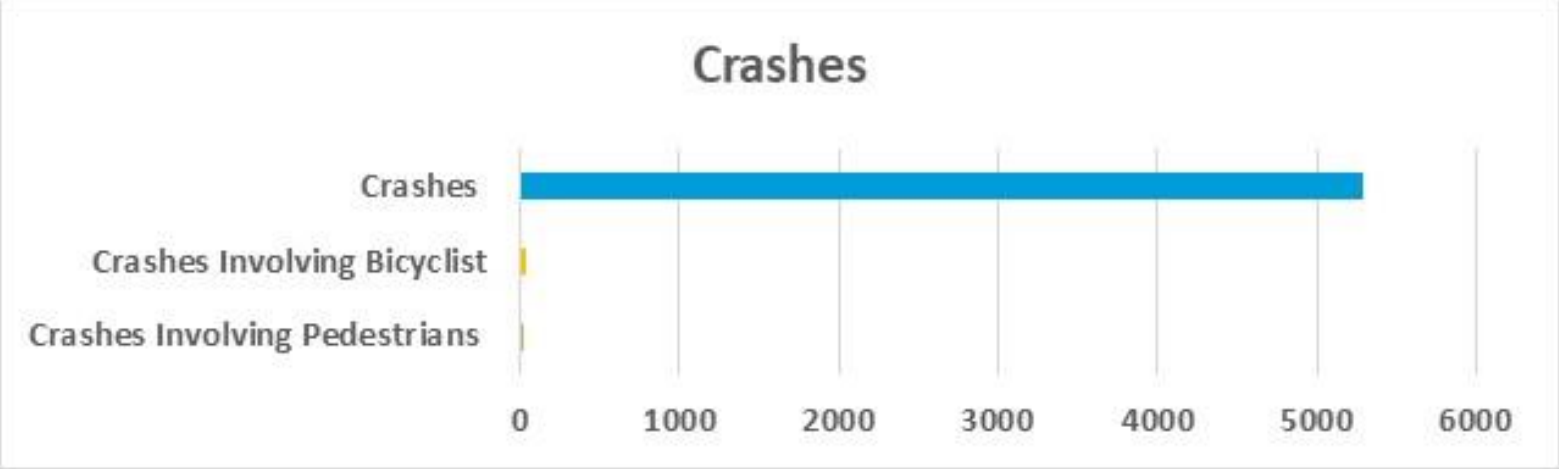
Density of Crashes with Serious Injury or Fatality

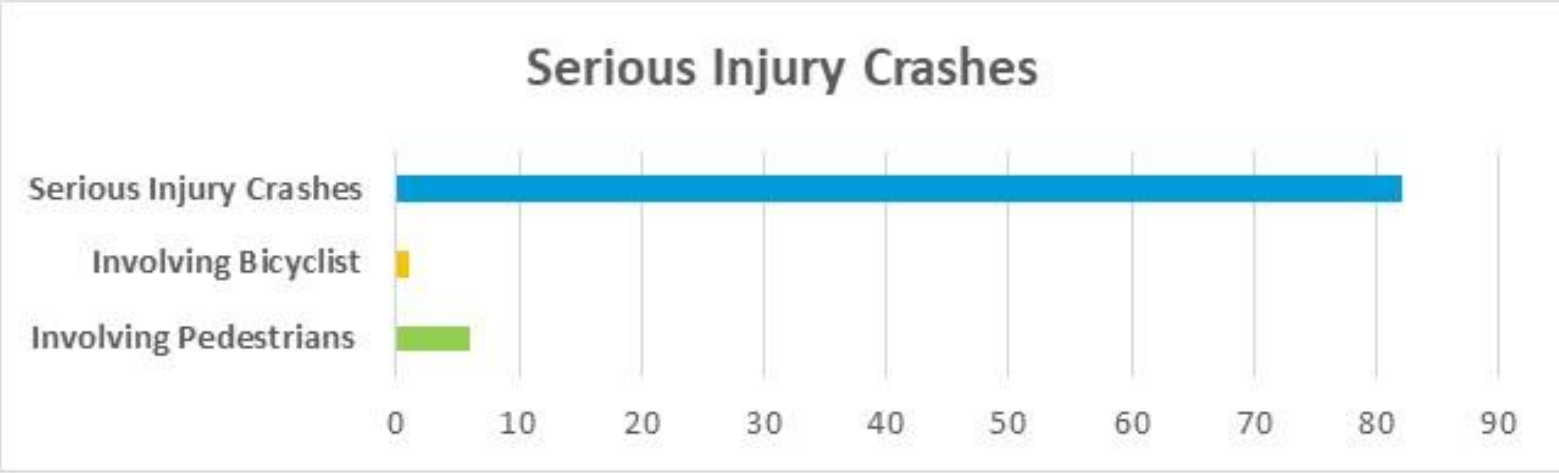
Low

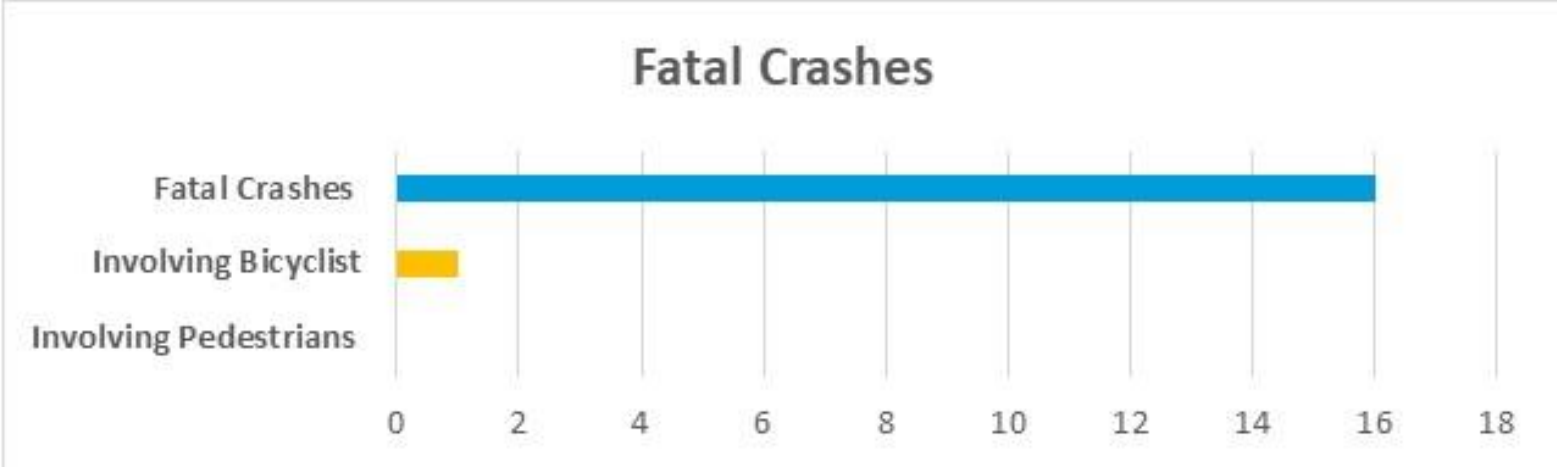
Medium

High

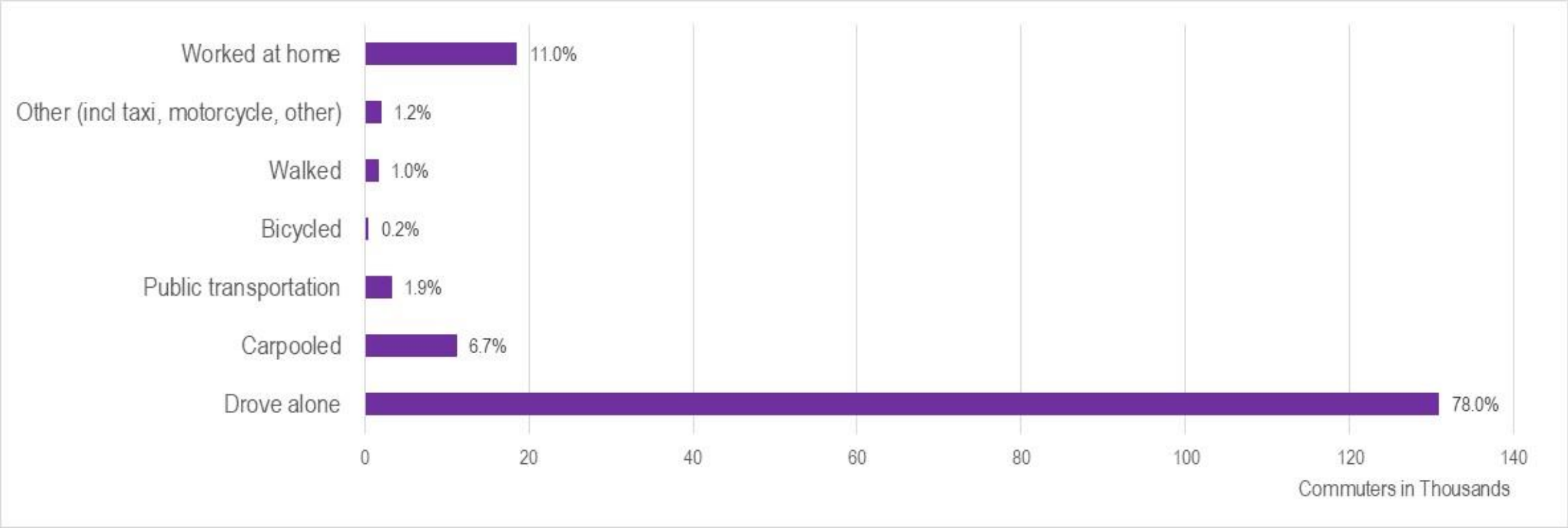
Source: DRCOG, ESRI, CDOT 2017 Crash Data, Mapbox


Crashes
Crashes
Crashes Involving Bicyclist
Crashes Involving Pedestrians
0
1000
2000
3000
4000
5000
6000


Serious Injury Crashes
Serious Injury Crashes
Involving Bicyclist
Involving Pedestrians
0
10
20
30
40
50
60
70
80
90


Fatal Crashes
Fatal Crashes
Involving Bicyclist
Involving Pedestrians
0
2
4
6
8
10
12
14
16
18

Douglas County mode share to work



METRO VISION PERFORMANCE TARGETS

Purpose: assessing collective impact

Metro Vision measures:

1. help to **verify whether the shared actions** of planning partners, including local governments, **are moving the region toward desired outcomes**

2. are **not intended to judge the performance of individual jurisdictions or projects**

Metro Vision performance measure status

Ahead of schedule

- Residents living in locations affordable to the typical household
- Housing near high-frequency or rapid transit
- Employment near high-frequency or rapid transit
- Regional employment

On track

- Urban center housing
- Regional population-weighted density
- Travel time variation (TTV)

Behind schedule

- Urban center employment
- Non-single-occupant vehicle (SOV) travel
- Vehicle miles traveled (VMT)
- Person delay
- Traffic fatalities
- Surface transportation greenhouse gas (GHG) emissions
- Employment in high-risk hazard areas

No determination

- Protected open space
- Housing in high-risk hazard areas

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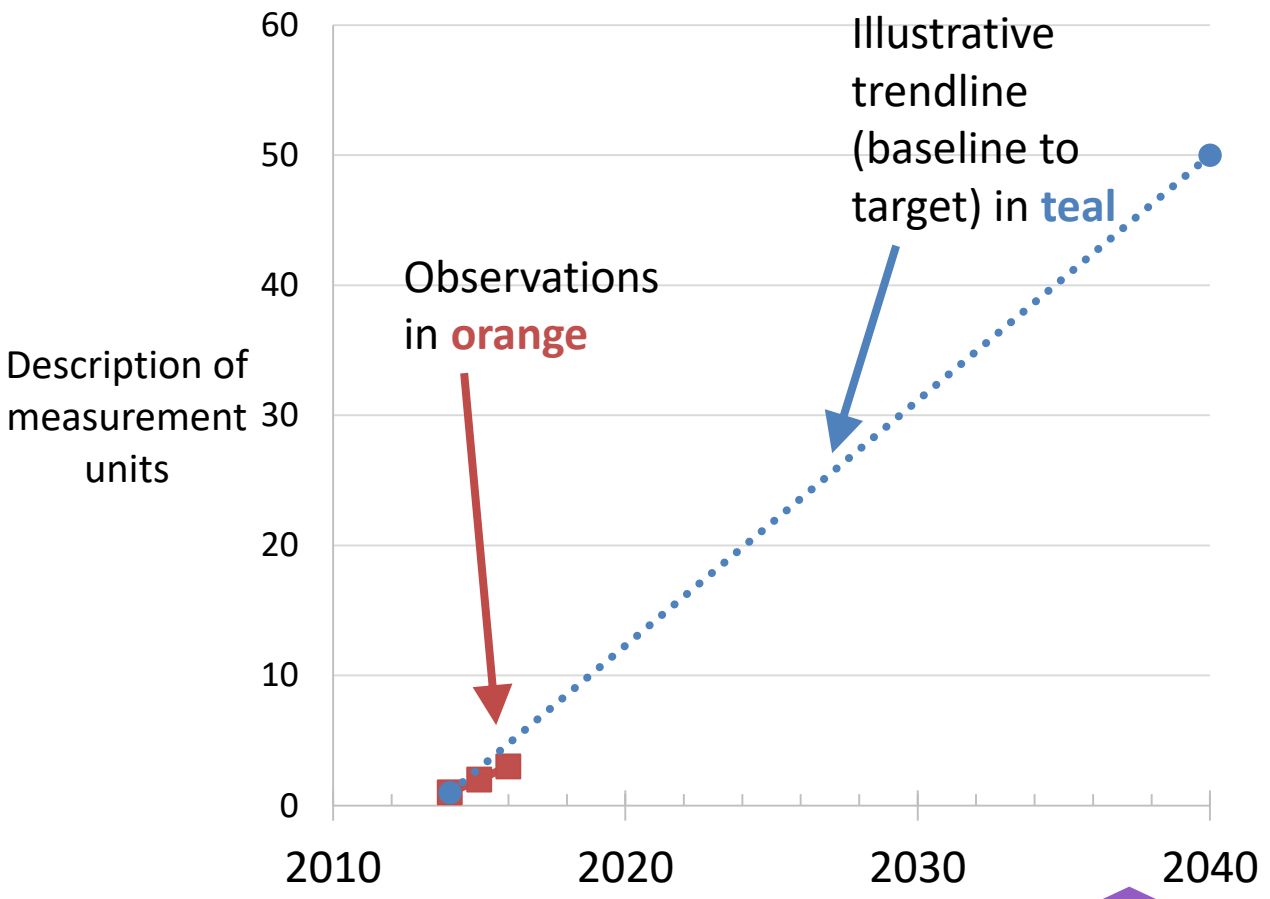
<<Guide to information provided>>

Measure status

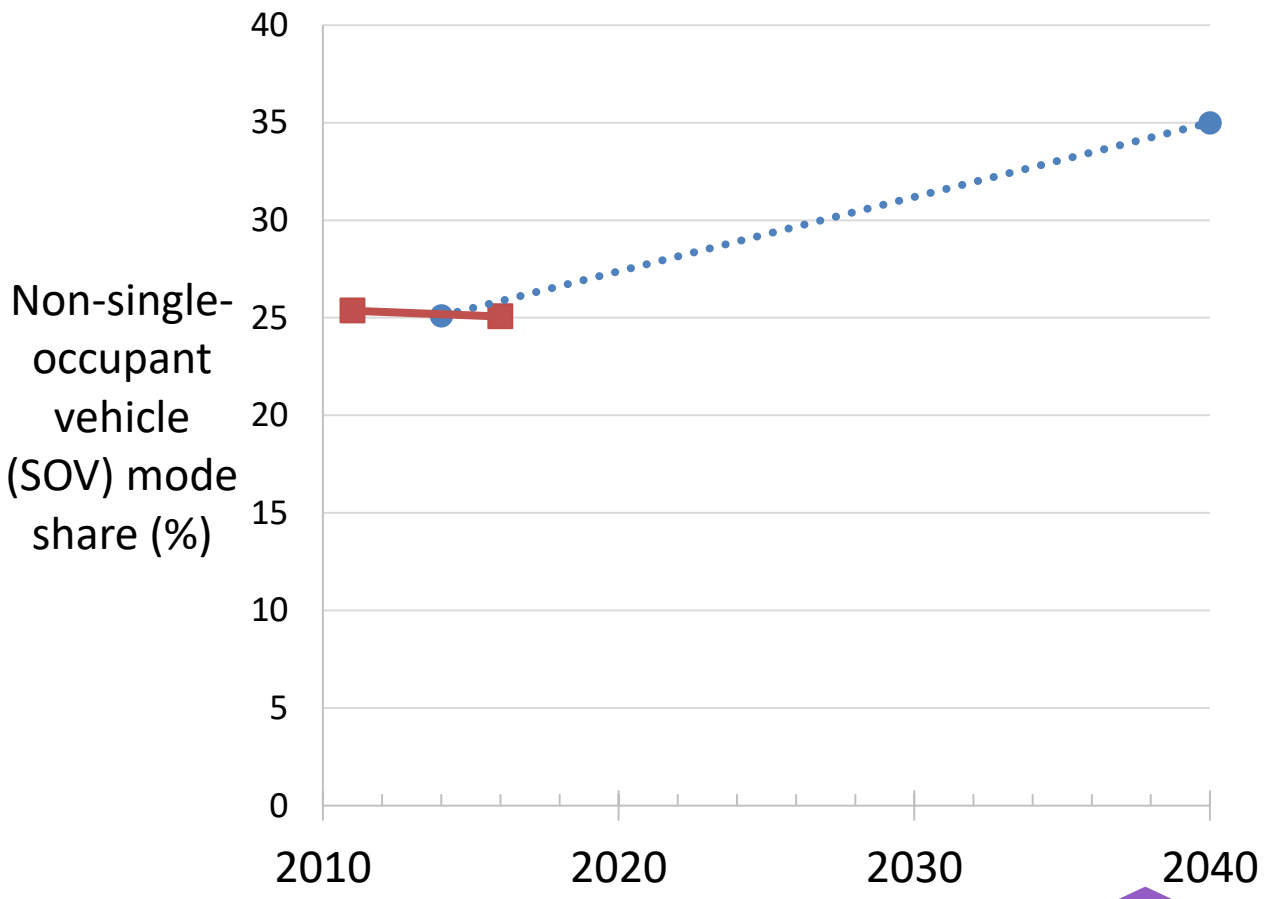
Year	Observation
Baseline	1
Year 2	2
Year 3	3
…	…
2040 Target	50



Non-single-occupant vehicle (SOV) travel

Behind schedule

Year	Observation
2014*	25.1%
2015*	24.8%
2016*	25.1%
…	…
2040 Target	35.0%



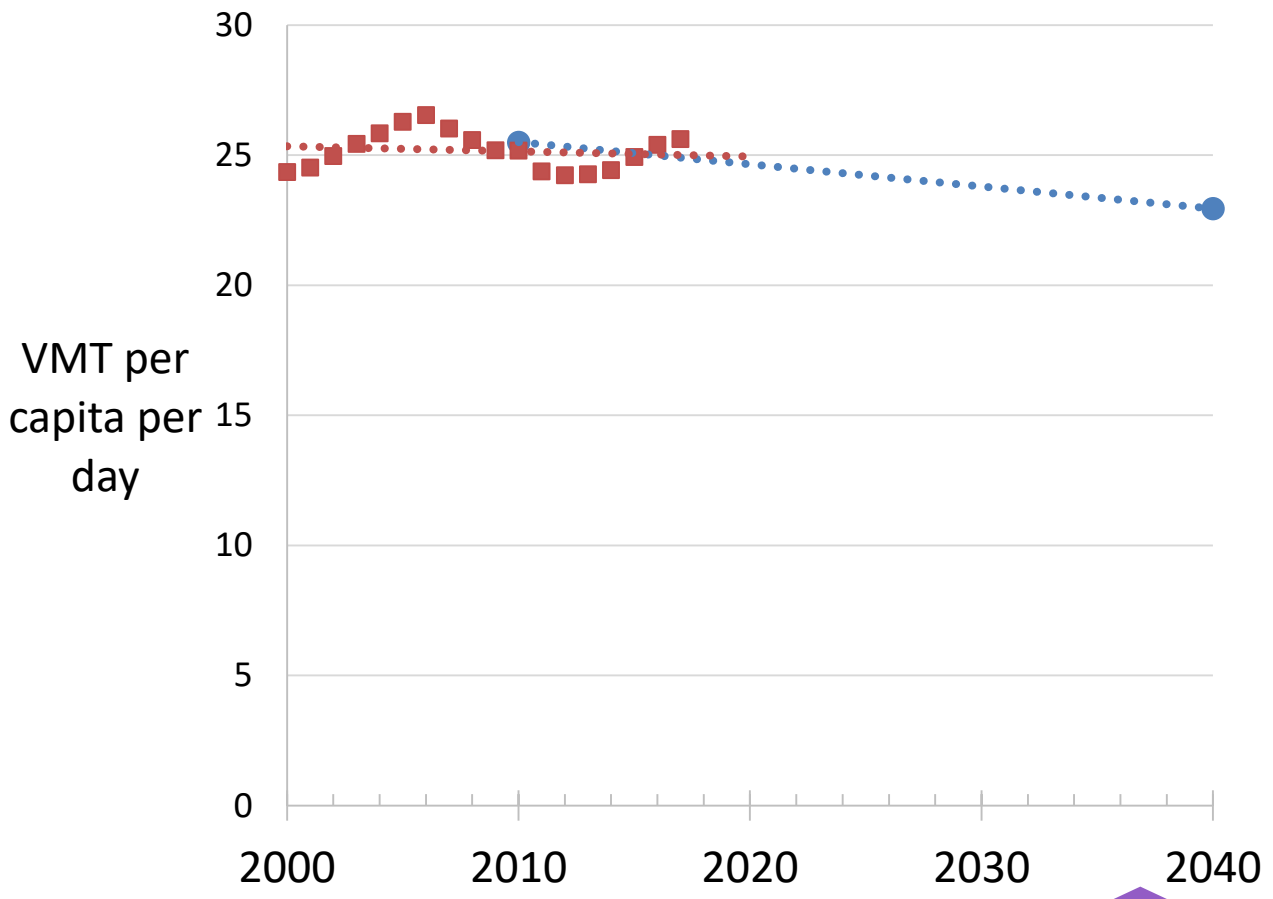
* - reflects five year window of survey data ending in year shown

Back to "Metro Vision performance measure status"

Vehicle miles traveled (VMT) per capita

Behind schedule

Year	Observation
2010	25.2
2011	24.4
2012	24.2
2013	24.3
2014	24.4
2015	24.9
2016	25.4
2017	25.6
2040 Target	10% decrease

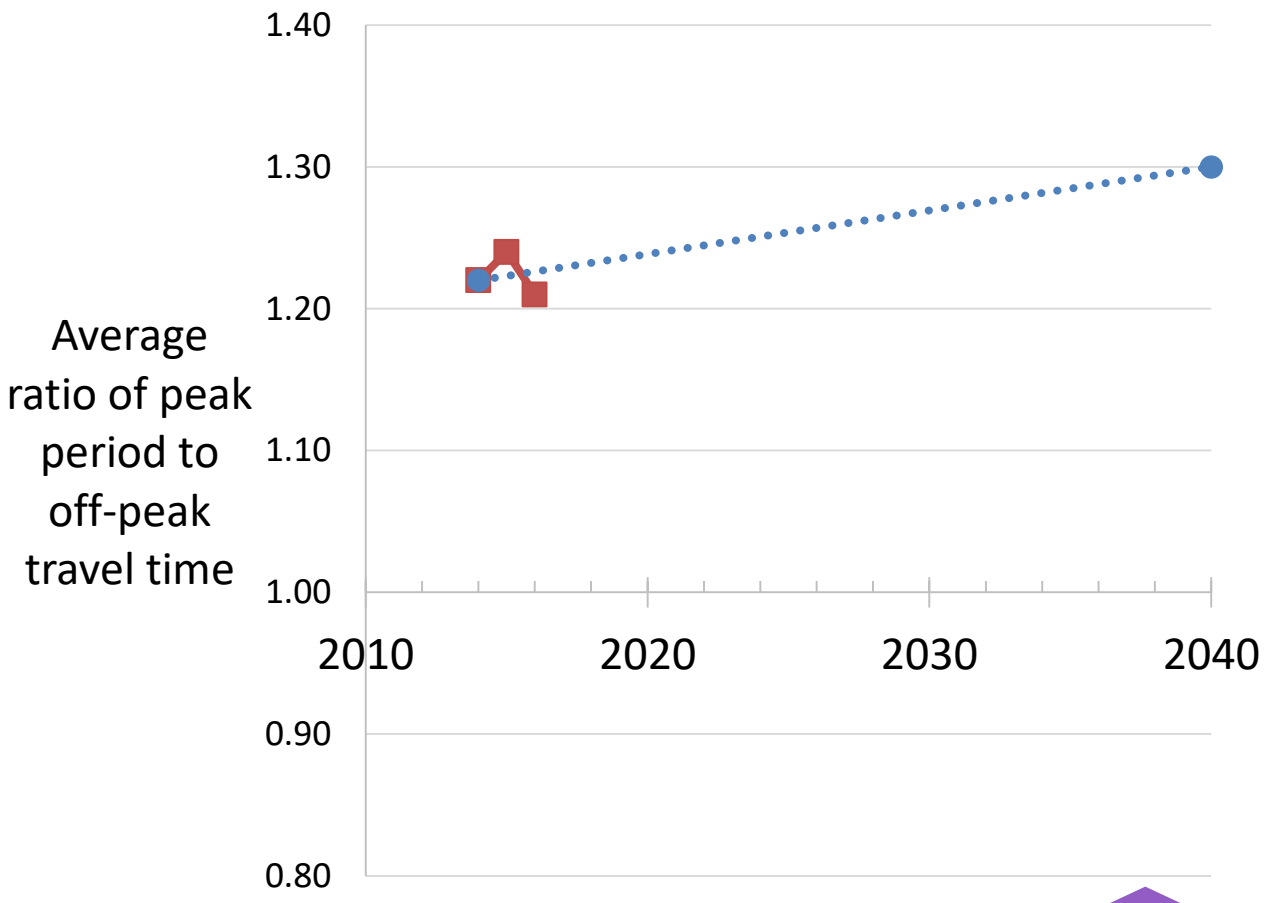


Back to "Metro Vision performance measure status"

Travel time variation (TTV)

On track

Year	Observation
2014	1.22
2015	1.24
2016	1.21
…	…
2040 Target	Less than 1.30

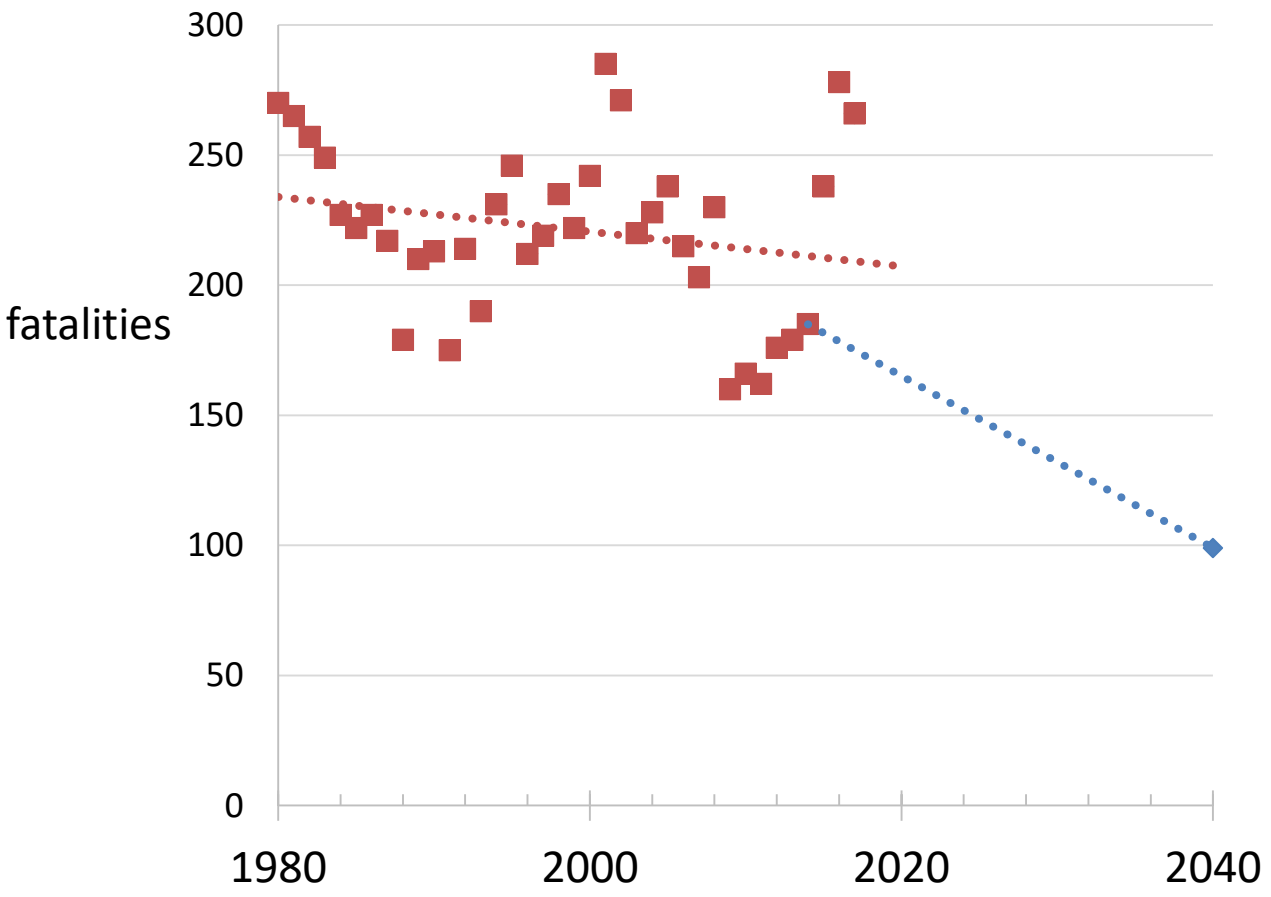


Back to "Metro Vision performance measure status"

Traffic fatalities

Behind schedule

Year	Observation
2014	185
2015	238
2016	278
2017	266
…	…
2040 Target	Less than 100



Back to "Metro Vision performance measure status"

2050 MVRTP STRATEGIC ISSUES

2050 MVRTP Strategic Issues

- How will the Denver region grow & change by 2050?
- How do we make our streets safer for all travelers?
- What role will technology play in travel and mobility?
- How do we respond to the persistent lack of adequate transportation funding?
- What mix of projects and investment decisions in the 2050 MVRTP will best achieve Metro Vision's performance targets?
- What choices and tradeoffs are we willing to make around mobility, travel choices, congestion, and maintenance?

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2050 MVRTP SCHEDULE & NEXT STEPS

Summary Schedule (2019 and 2020)

Public & Stakeholder Engagement (continuous)

- Prepare Engagement Plan
- Conduct Engagement
- Hold Public Hearing for Plan Adoption

"Definitions" Tasks (2019)

- Functional Classification
- Environmental Justice
- Vision Projects

Financial Planning (2019)

- 2050 Revenues & Program Distribution
- Define Expenditures
- Allocate Revenues & Expenditures to Projects & Categories

Scenario Planning (Late 2019, Early 2020)

- Complete 2050 Base Land Use Forecast
- Define & test scenarios
- "Select" Scenario or Hybrid

Prepare & Adopt 2050 MVRTP (2020 – adopt by early 2021)

- Identify Capacity Projects
- Conduct Air Quality Conformity Model Runs
- Prepare Plan Document

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THANK YOU!