

Regional Transportation Committee

Meeting date: December 17, 2024 Agenda Item #: 10 (Attachment H)

2023 Annual Report on Roadway Traffic Congestion in the Denver Region

Agenda item type: Discussion

Summary

The 2023 Annual Report on Roadway Traffic Congestion in the Denver Region was recently completed. Staff will present on key findings from the report.

Background

The United States Department of Transportation requires all metropolitan planning organizations serving large populations to undertake a Congestion Management Process to monitor the evolution of congestion in the region. DRCOG conforms to this requirement through a process comprised of two components: the calculation of congestion measurements for roadways in the region and the presentation of data within an annual report on traffic congestion. This process began in 2006 and continues in perpetuity.

Staff will provide an informational presentation of the 2023 Annual Report on Roadway Traffic Congestion in the Denver Region. This year's report addresses the following topics:

- Continued impacts of the COVID-19 pandemic on travel behavior.
- Vehicle miles traveled.
- Transit and shared micromobility ridership.
- Congestion projections for 2050.

A printed copy of the report will be made available at the meeting.

Action by others

None.

Previous discussion/action

None.

Recommendation

None.

Attachment(s)

- 1. 2023 Annual Report on Roadway Traffic Congestion in the Denver Region
- 2. Staff presentation

For more information

If you need additional information, please contact Max Monk, Assistant Planner, Transportation Planning and Operations, at 303-480-6731 or mmonk@drcog.org.



2023 Annual Report on Traffic Congestion in the Denver Region

Photo courtesy of RTD.



Agenda

- 1. Overview of the congestion management process.
- 2. 2023 trends and observations.
 - a) Vehicle miles traveled.
 - b) Transit ridership.
 - c) Shared micromobility usage.
- 3. 2050 congestion projections.
- 4. Shifting dynamics of commute corridors.
- 5. Additional metrics influenced by telework.



The congestion management process

- A federally-required process to monitor the evolution of congestion in the region.
- Components of DRCOG's process:
 - Annual Report on Roadway Traffic Congestion in the Denver Region
 - Database of roadway attributes, traffic counts and crash incidents.
 - Multimodal data metrics.

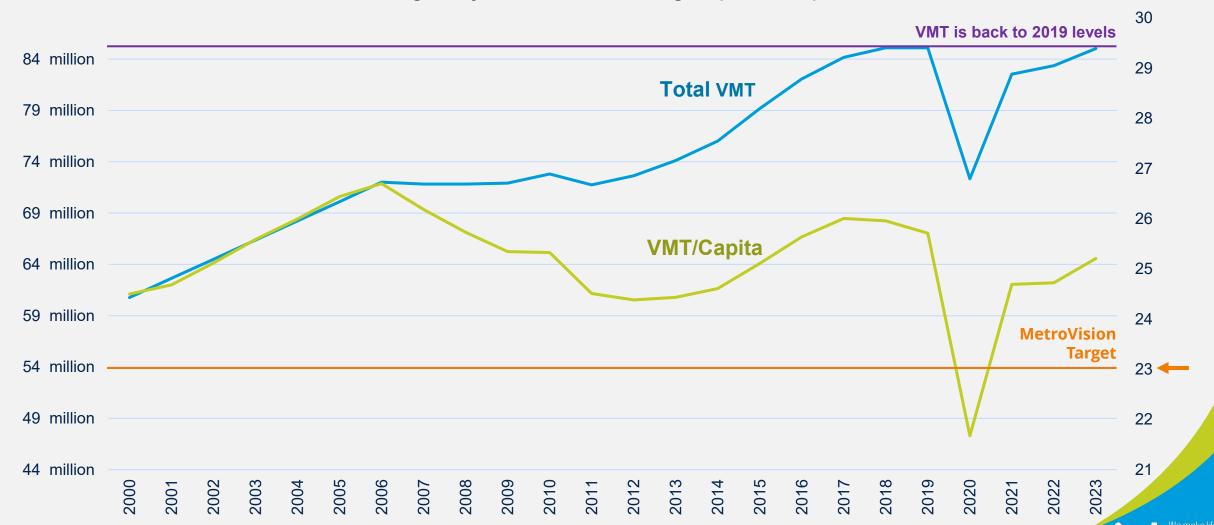






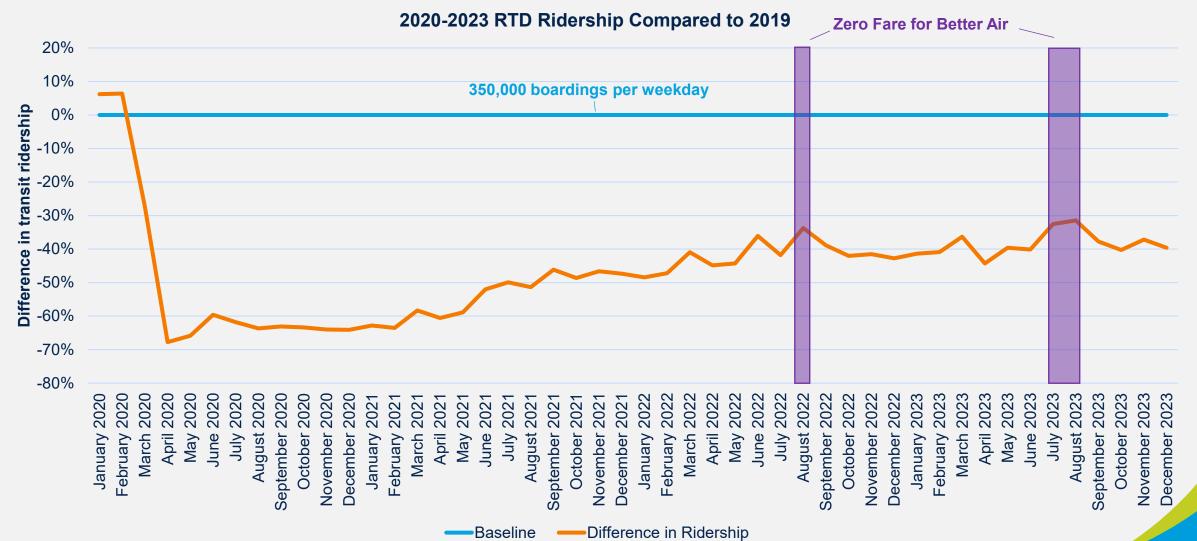
Vehicle miles traveled (VMT)

Average daily VMT in the Denver region (2000-2023)



Source: CDOT, DRCOG, Federal Highway Administration

Transit ridership





Source: National Transit Database

Real world example: RTD's Colorado Station



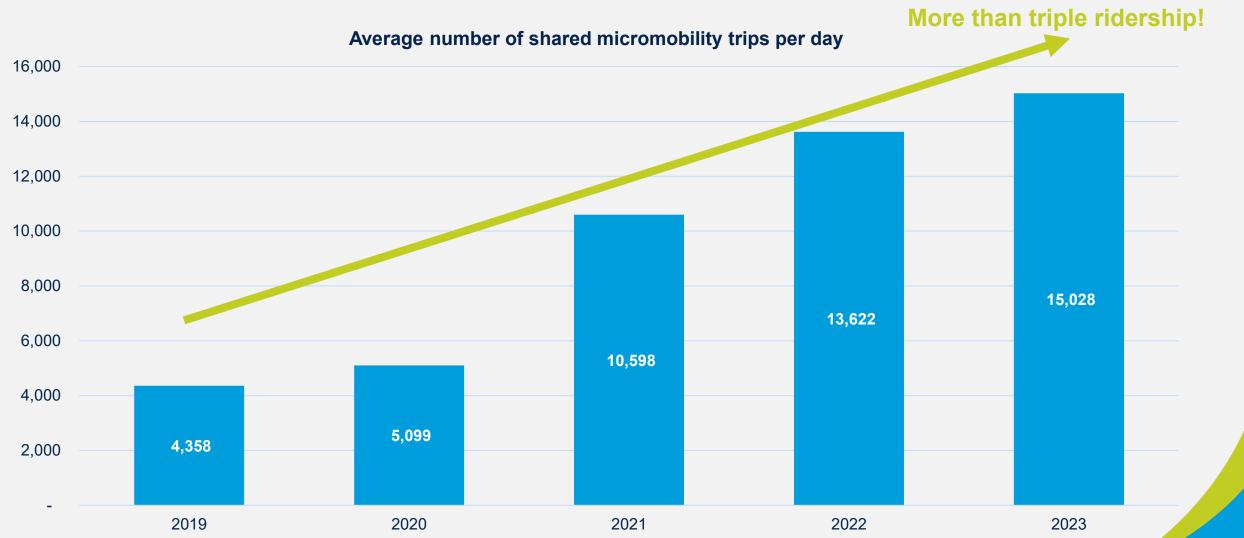


2019 2024

Source: Google Earth



Shared micromobility usage



Source: Ride Report



2050 congestion projections

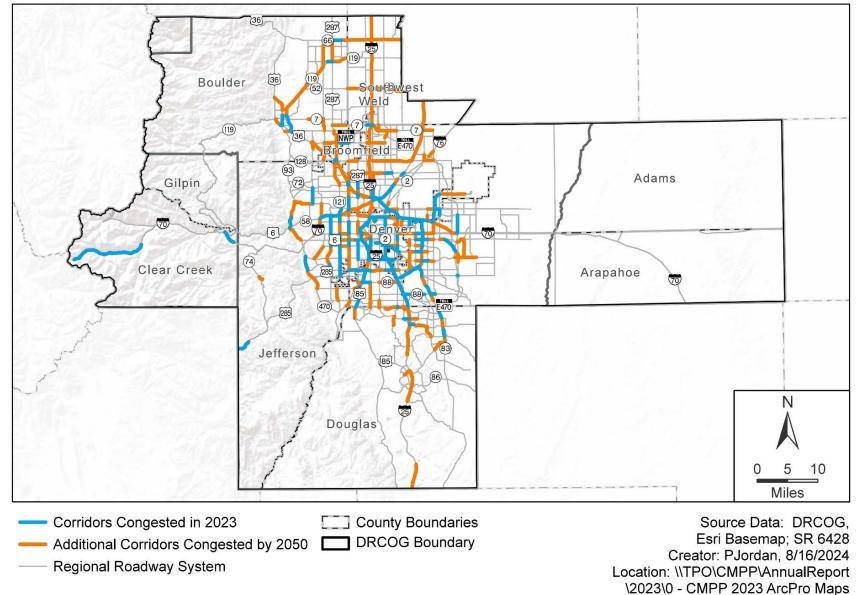
- Vehicle miles traveled is projected to grow by 42% on the average 2050 weekday.
- The cost of congestion in the region is expected to increase by 123% between 2023 and 2050.
- Over one third of lane miles are expected to be congested for three hours or more in the region in 2050.





Key Congested Locations in 2023 and 2050





We make life better!

We make life better!

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Overview of analysis

- Telework became a public health necessity with COVID.
- Telework remains prevalent.
- Building on analysis from previous report to see how dynamics have continued to evolve.
- Examined travel time and traffic volume data from 2019 to 2023.

Telework and commuting

Percentage of people who typically work from home in the Denver region from 2018 to 2023

MetroVision target of 35% non-SOV mode share to

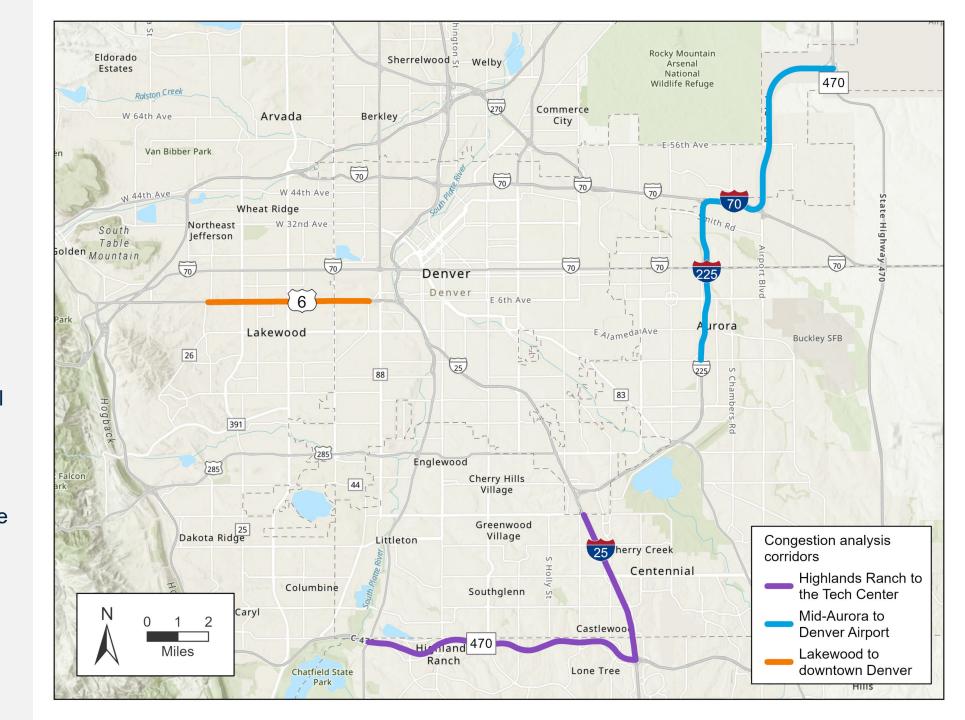


Source: American Community Survey 2011-2023 one-year estimates

Selected corridors

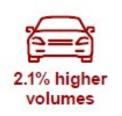
Source data: DRCOG
Esri Basemap; SR 6428
CConnally, 10/07/2024
Location:
RPDshare\GIS\Requests\Annual
ReportTrafficCongestion

Map disclaimer found at data.drcog.org/about. If you have difficulty using this document's content, please email access@drcog.org or call 303-455-1000. Please expect a response within 72 hours (3 business days).



Lakewood to Denver morning commute

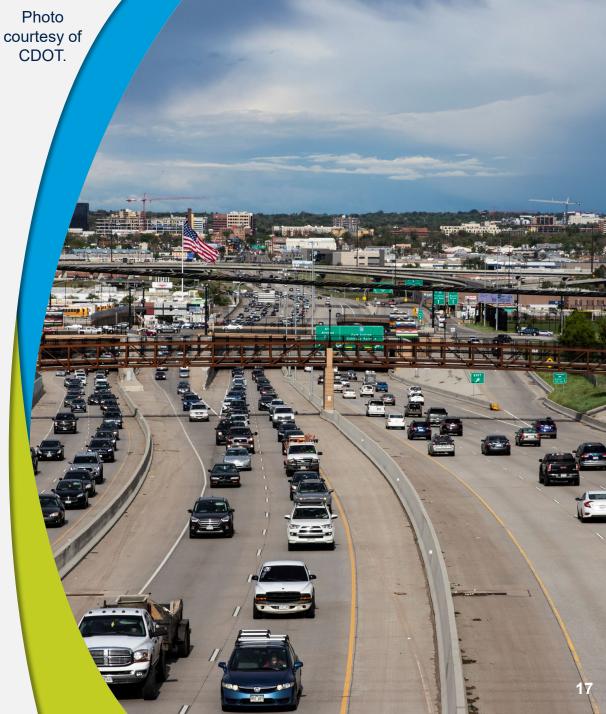
- Higher traffic levels in 2023 than 2019, considering all time periods.
- 6% **fewer vehicles** during the a.m. peak.
- Telecommuting and flexible schedules are a key answer – their impacts are starting to decline.







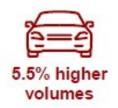






Mid-Aurora to Denver International Airport

- Traffic was down 8% from 2019 levels in 2020 – in 2023, traffic was nearly 8% higher than those same levels.
- This area continues to see new development and jobs coming online.
- Denver airport is still seeing increases in passenger ridership.





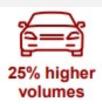


Source: CDOT, DRCOG, INRIX



Highlands Ranch to the Denver Tech Center

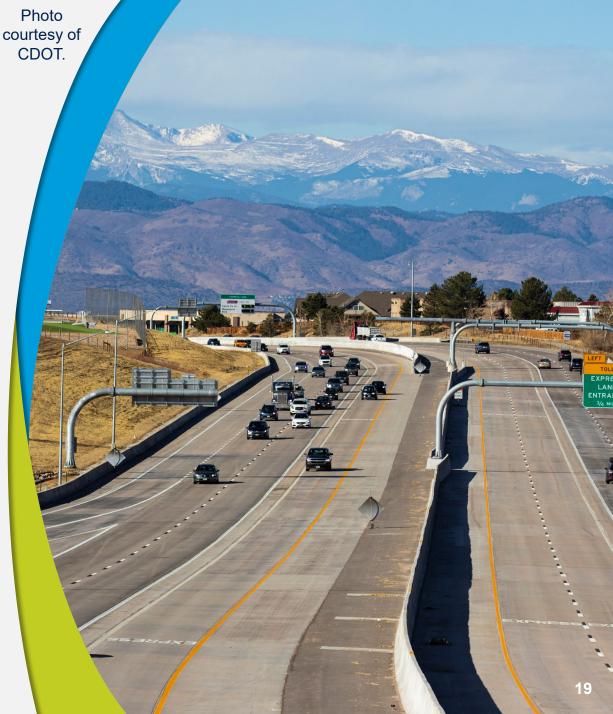
- Higher traffic levels in 2023 than 2019, considering all time periods
 most likely due to construction.
- Travel times are **lower** despite higher traffic levels.
- The C-470 managed lane project likely has a **stronger impact** than given credit in 2022.

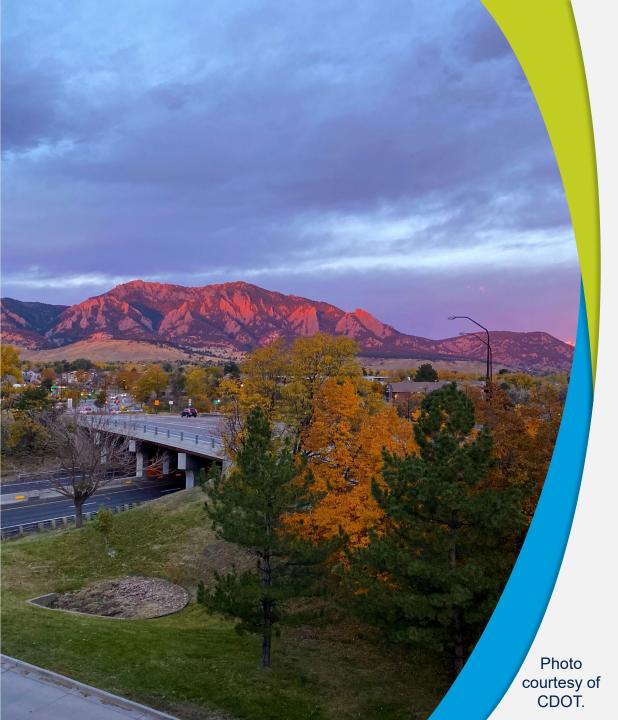










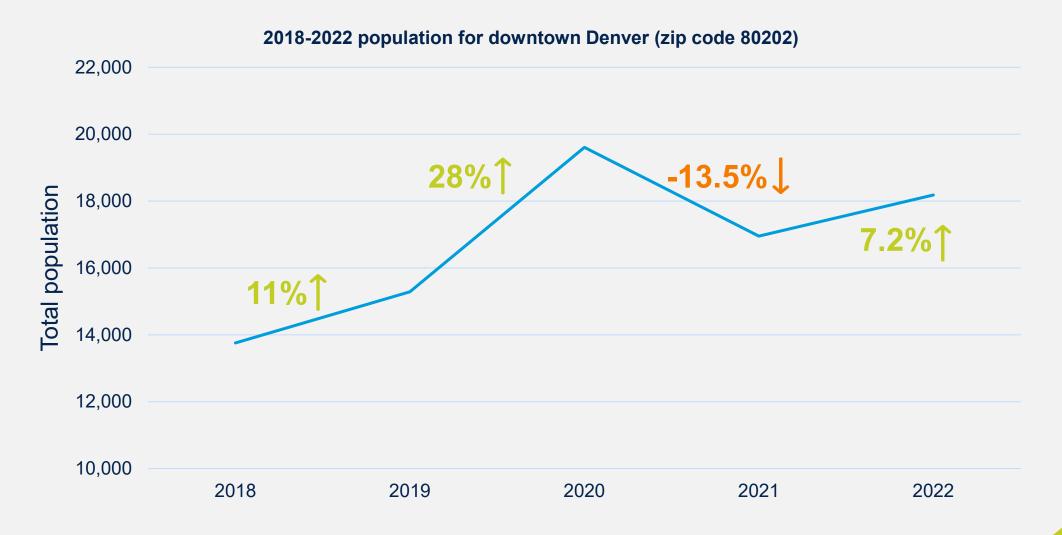


Key takeaways

- Telework continues to impact travel behavior.
- As telework rates decline and more people move to the region, more traditional travel trends increase.
- Trends continue to evolve geographically.



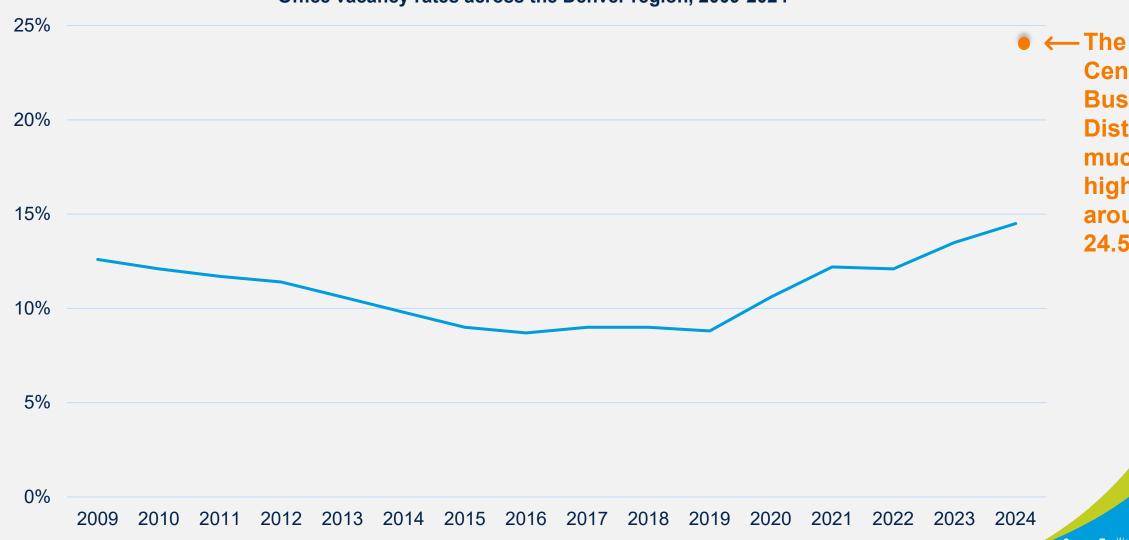
Changes to downtown Denver's population





Office vacancies across the region

Office vacancy rates across the Denver region, 2009-2024



Central

much

Business

District is

higher at

around

24.5%.

Source: Costar

Retail vacancies across the region





Source: Costar

Trends in multiunit residential

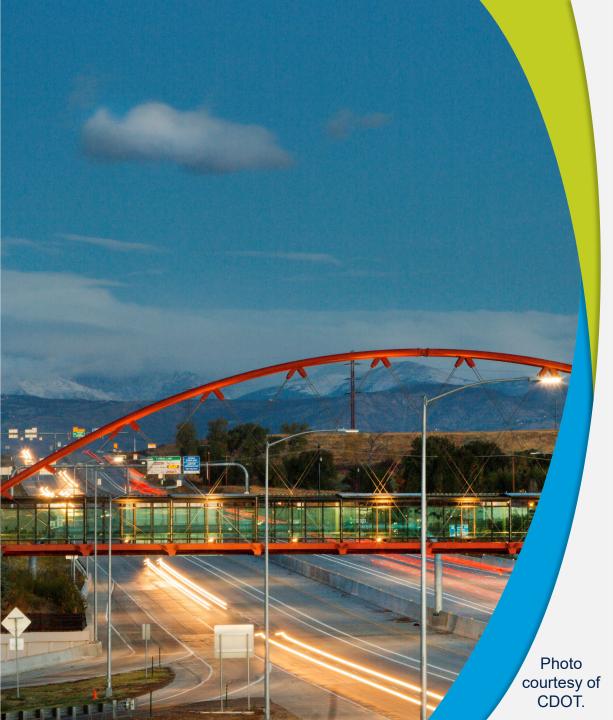
• 36,595 multiunit homes developed between 2020-2022.

- 14,734 multiunit homes developed in 2023.
- Given 2024 year-to-date trends, we estimate roughly 20,400 new multiunit homes by the end of this year.
- Adjusted for inflation, rents are high but not outside of the norm.









Conclusion

- Transportation demand management.
- Projects that facilitate travel choices to avoid and adapt to congestion.
- State household travel survey.
- Denver Region ITS.





Program of **DRCOG**







Thank you! Questions?

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