

# MOBILITY 2045 UPDATE

## DRAFT RECOMMENDATIONS

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NCTCOG Public Meeting  
April 2022

# AGENDA

- 1 What is the Metropolitan Transportation Plan?
- 2 Regional Perspective
- 3 Draft Recommendations
- 4 Nondiscrimination Analysis
- 5 Input Opportunity
- 6 Transportation Conformity Results

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# WHAT IS THE METROPOLITAN TRANSPORTATION PLAN?



Represents a Blueprint for the Region's Multimodal Transportation System



Covers at Least a 20-year Timeframe



Responds to Goals



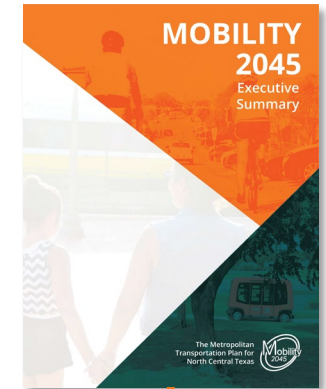
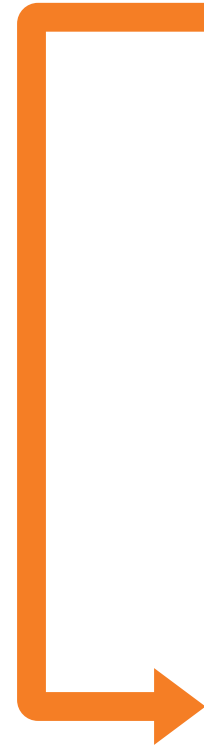
Identifies Policies, Programs, and Projects for Continued Development



Guides the Expenditure of Federal and State Funds

# WHY UPDATE THE PLAN?

4-Year Federal Requirement



# MAJOR MOBILITY PLAN COMPONENTS

## PLAN CONTENT

PROGRAMS

POLICIES

PROJECTS

## FINANCIAL PLAN

FINANCIAL  
CONSTRAINT

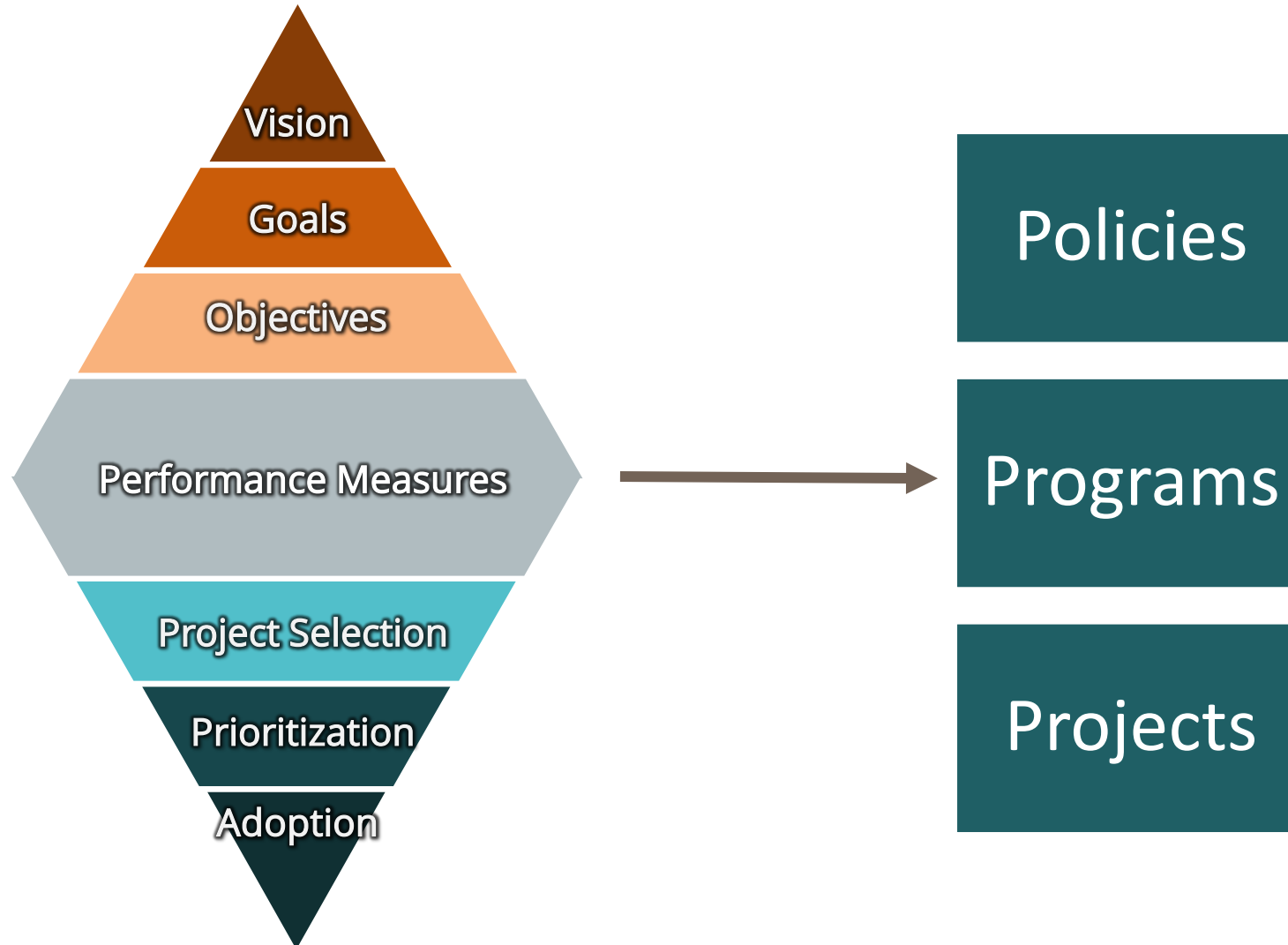
## NONDISCRIMINATION ANALYSIS

NO DISPARATE  
IMPACTS

## AIR QUALITY CONFORMITY

CONSISTENCY  
WITH  
FEDERAL/STATE  
AIR QUALITY  
GOALS

# MOBILITY PLAN DEVELOPMENT



# MOBILITY PLAN GOALS

Four goal themes

Nine goals

## Mobility

- Improve Transportation Options
- Support Travel Efficiency Strategies
- Ensure Community Access to System and Process

## Quality of Life

- Enhance Environment and Lifestyles
- Encourage Sustainable Development

## System Sustainability

- Ensure Adequate Maintenance, Safety, and Reliability
- Pursue Long Term, Sustainable Financial Resources

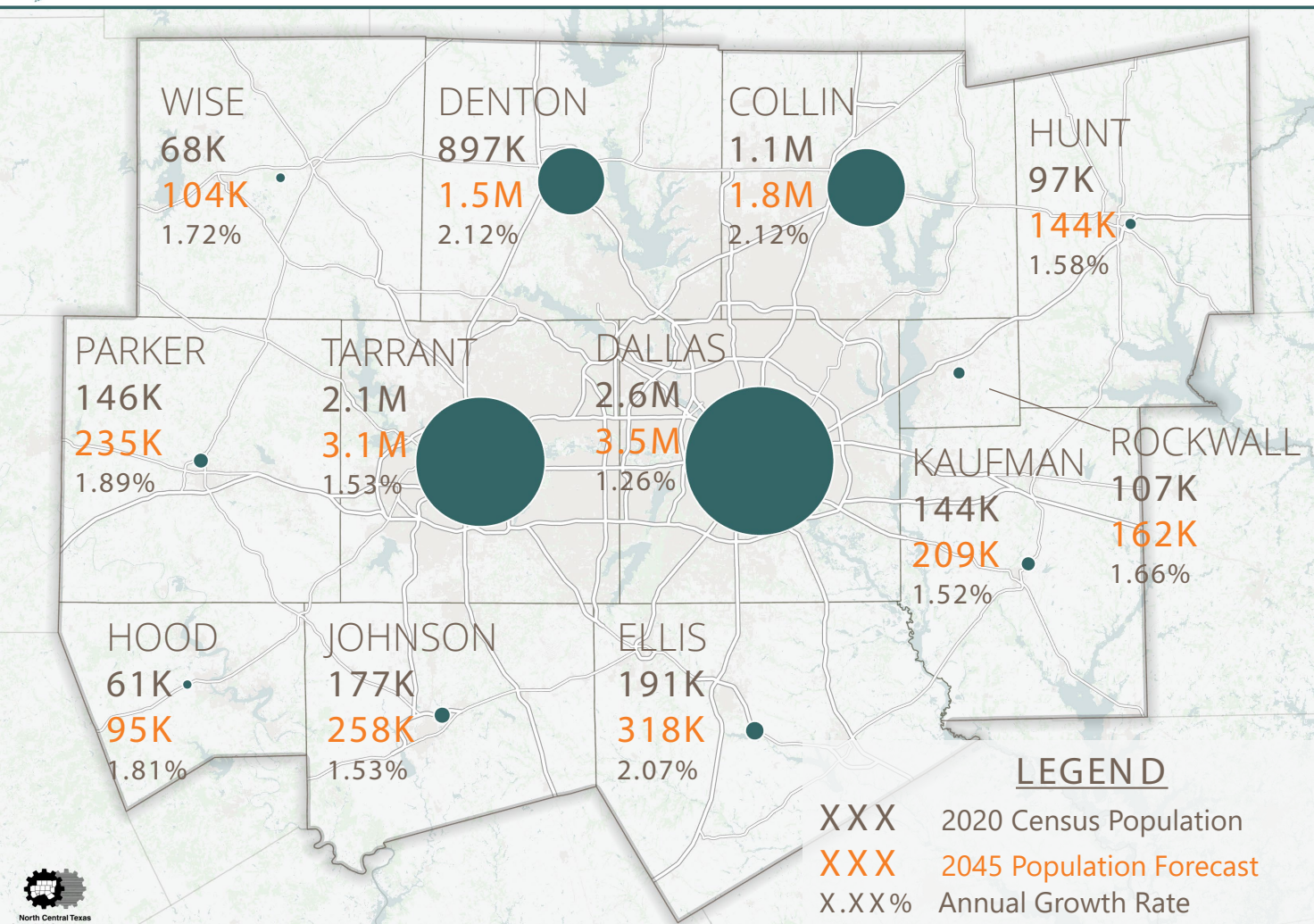
## Implementation

- Provide Timely Planning and Implementation
- Develop Cost Effective Projects and Programs

# 2

# REGIONAL PERSPECTIVE

## Population Forecast by County



4<sup>th</sup>

Largest metro area in US

30%

of Texas' GDP

40%

Increase in population forecasted

45%

Increase in employment forecasted



# POPULATION FORECAST BY COUNTY: FASTEST GROWING

Top Five  
Fastest  
Growing  
Counties

	2020 Census	2045	Change	Compound Annual Growth Rate
Collin	1.1 million	1.8 million	+0.73 million	2.1%
Denton	0.9	1.5	+0.62	2.1
Ellis	0.2	0.3	+0.13	2.1
Parker	0.1	0.2	+0.09	1.9
Hood	0.1	0.1	+0.03	1.8
Wise	0.1	0.1	+0.04	1.7
Rockwall	0.1	0.2	+0.05	1.7
Hunt	0.1	0.1	+0.05	1.6
Johnson	0.2	0.3	+0.08	1.5
Tarrant	2.1	3.0	+0.96	1.5
Kaufman	0.1	0.2	+0.07	1.5
Dallas	2.6	3.5	+0.95	1.3
<b>TOTAL</b>	<b>7.6 million</b>	<b>11.4 million</b>	<b>+3.80 million</b>	<b>1.6%</b>

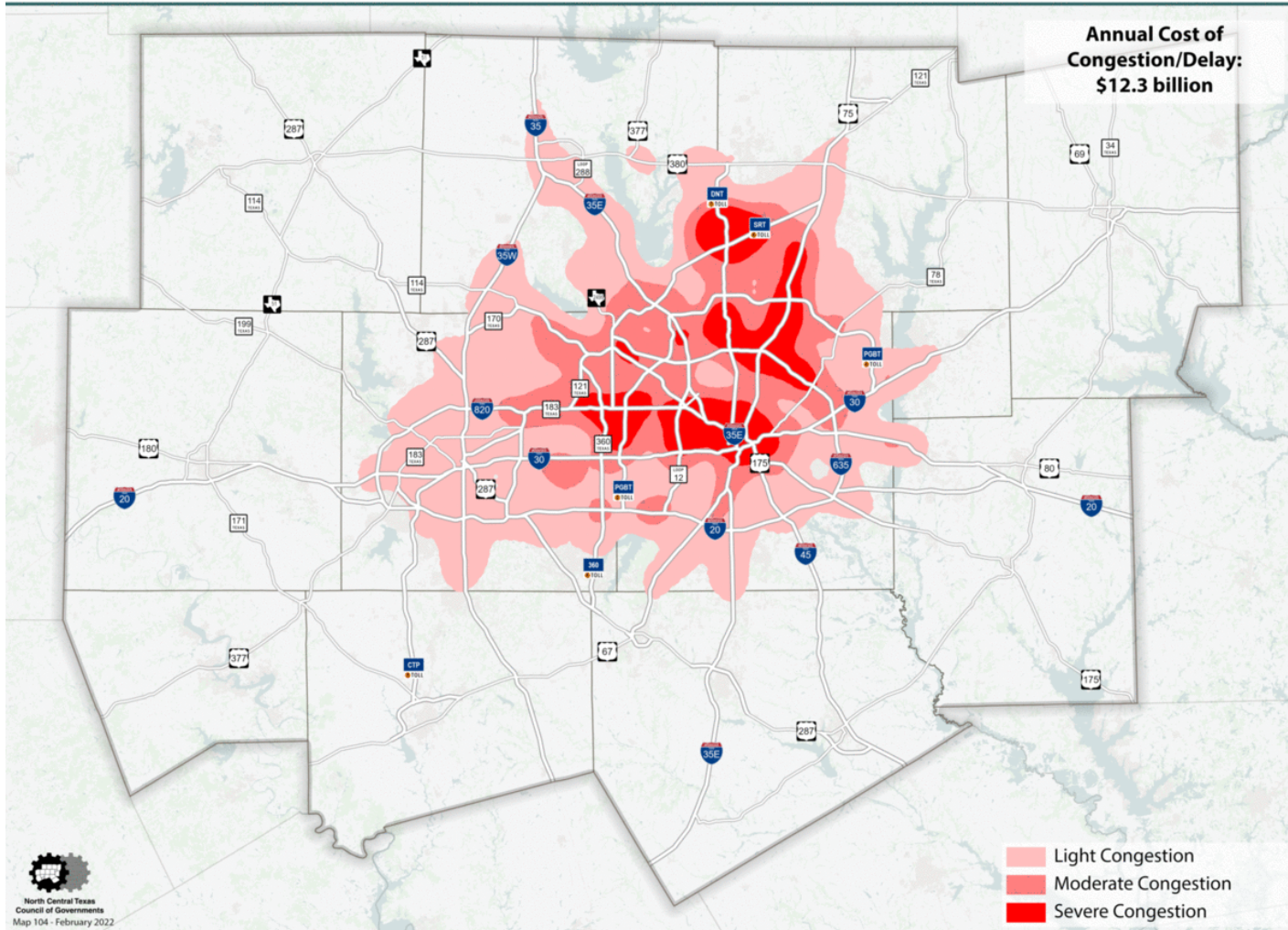
Source: The Perryman Group. (March 2020). A Long-Term Employment and Population Forecast for the North Central Texas Council of Governments Region; numbers may not sum due to rounding

# REGIONAL GROWTH



2023 Levels of Congestion/Delay

DRAFT



## Annual Cost of Congestion

CURRENT  
conditions

\$12.3  
Billion

2045 BUILD  
conditions

\$32.1  
Billion

2045 NO-BUILD  
conditions

\$60.8  
Billion

# PLANNING APPROACH AND FINANCIAL PLAN

## MAXIMIZE EXISTING SYSTEM

<b>Infrastructure Maintenance</b> Maintain and operate existing transit and roadway facilities	<b>\$39 B</b>
<b>Management and Operations</b> Improve efficiency and remove trips from system	<b>\$10 B</b>
<b>Growth, Development, and Land Use Strategies</b> Improve transportation and land use balance	<b>\$1 B</b>

## STRATEGIC INFRASTRUCTURE INVESTMENT

<b>Rail and Bus</b> Encourage switch to transit	<b>\$42 B</b>
<b>HOV/Managed Lanes</b> Increase auto occupancy	<b>\$56 B</b>
<b>Freeways/Tollways and Arterials</b> Add vehicle capacity	

**TOTAL**

**\$148 B**

## Financial Requirements

- Financial Constraint
- Reasonably expected sources of revenue
- Year-of-expenditure dollars
- Balance priorities with available revenues

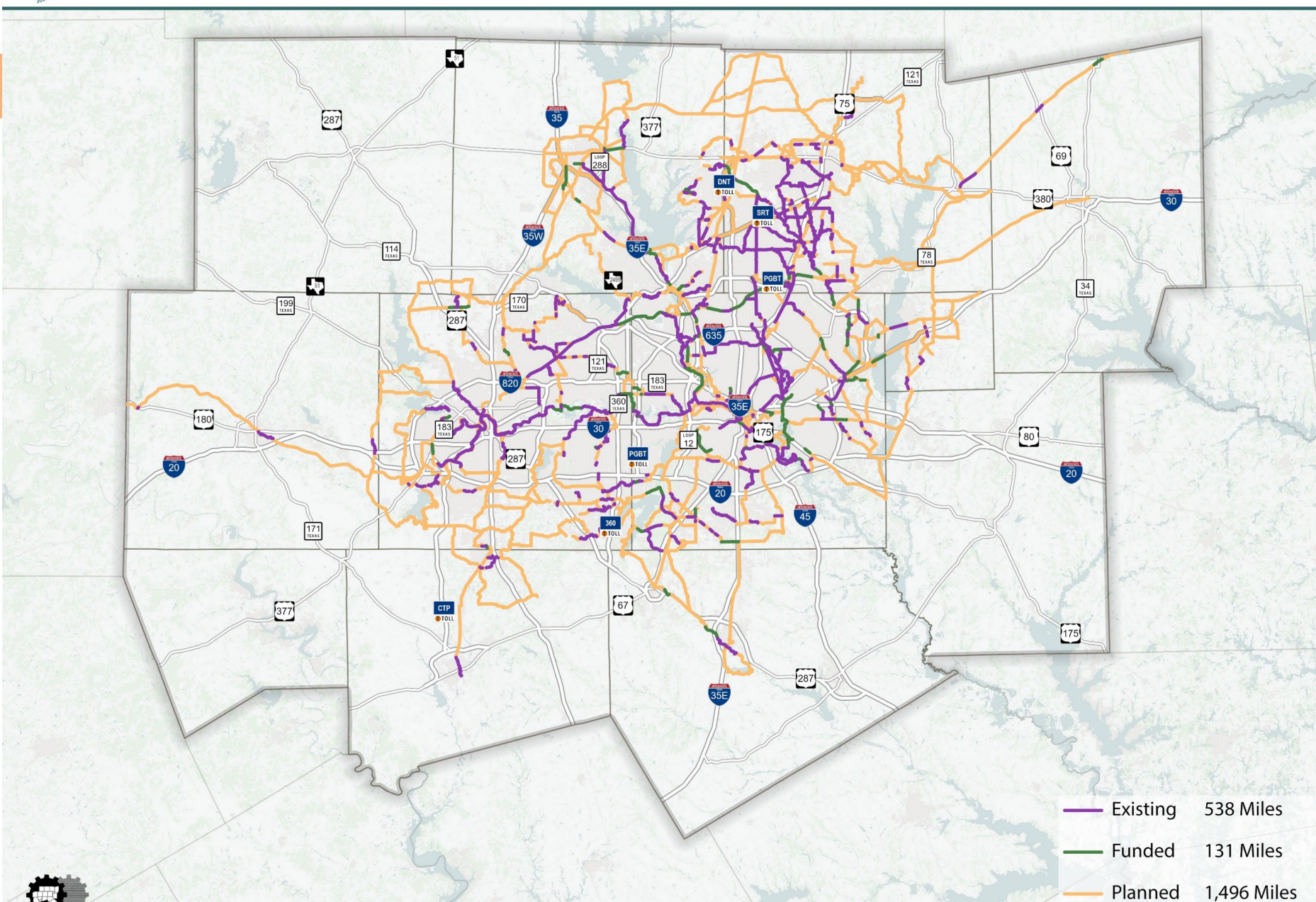












	Existing	538 Miles
	Funded	131 Miles
	Planned	1,496 Miles
	<b>Total</b>	<b>2,165 Miles</b>

# HIGHLIGHTED POLICY AND PROGRAM UPDATES



## Safety

References new Pedestrian Safety Action Plan endorsed by the Regional Transportation Council on June 10, 2021



## Health Accessibility Program

Identify and support transportation solutions to address health disparities in underserved communities, including solutions that improve access to healthy food and medical care



## Environmental Considerations

Build on air quality, resiliency, and environmental programs and incorporate new strategies



## TDM Strategies

RTC Resolution R21-04 supports the establishment of a regional SOV trip reduction target of 20% annually

# HIGHLIGHTED TECHNOLOGY PROGRAM UPDATES



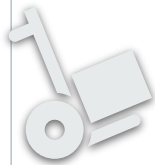
## Advance High-Speed Transportation recommendations

Consider high-speed rail between Dallas-Arlington-Fort Worth, as well as connectivity with the proposed Houston-Dallas high-speed rail and Fort Worth-Laredo high-speed rail/hyperloop



## Safe Integration of Vertical Mobility Technology in the NCTCOG region

New policy to safely and efficiently integrate Vertical Mobility Technology, Advanced Air Mobility, Urban Air Mobility, Unmanned Traffic Management, and Unmanned Aircraft Systems into the NCTCOG region



## Advance Automated Transportation Systems (ATS)

Apply ATS technology in passenger and freight applications for local circulation and first/last mile access to regional rail



## Automated Vehicles

Incorporate the new Automated Vehicle 2.0 initiative launched since the adoption of the last Mobility Plan



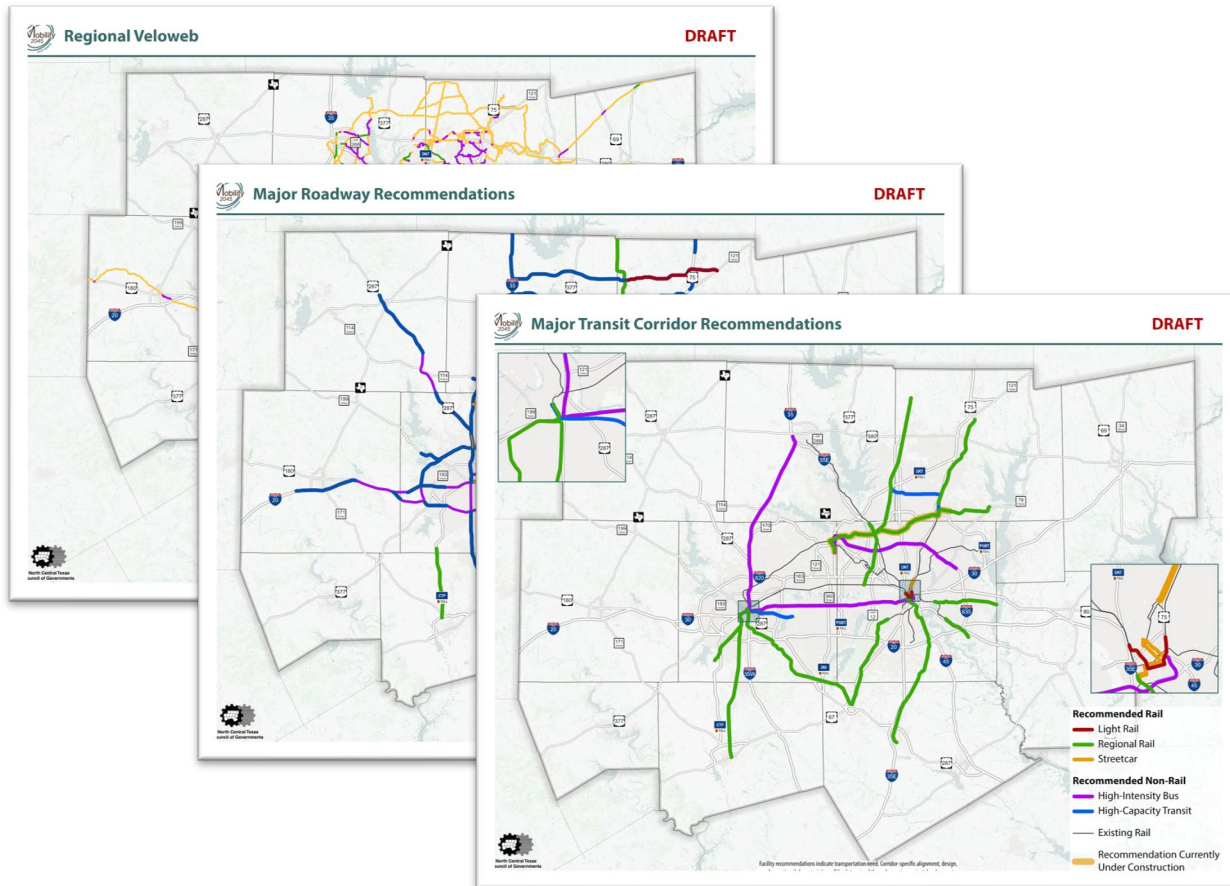
## Internet and Broadband

Incorporates a new topic of broadband internet through discussion of access, infrastructure, the intersection of communications and transportation, and potential uses



# DRAFT MATERIALS AVAILABLE ONLINE

[www.nctcog.org/PlanInProgress](http://www.nctcog.org/PlanInProgress)



## Draft Plan Documents

### Chapters



1 - Introduction



2 - Financial Reality



3 - Social Considerations



4 - Environmental Considerations



5 - Operational Efficiency



6 - Mobility Options



7 - Transportation Technology



8 - Regional Performance



9 - Conclusion



# 4

## REGIONAL NONDISCRIMINATION ANALYSIS

Required by Civil Rights Act and Executive Order 12898

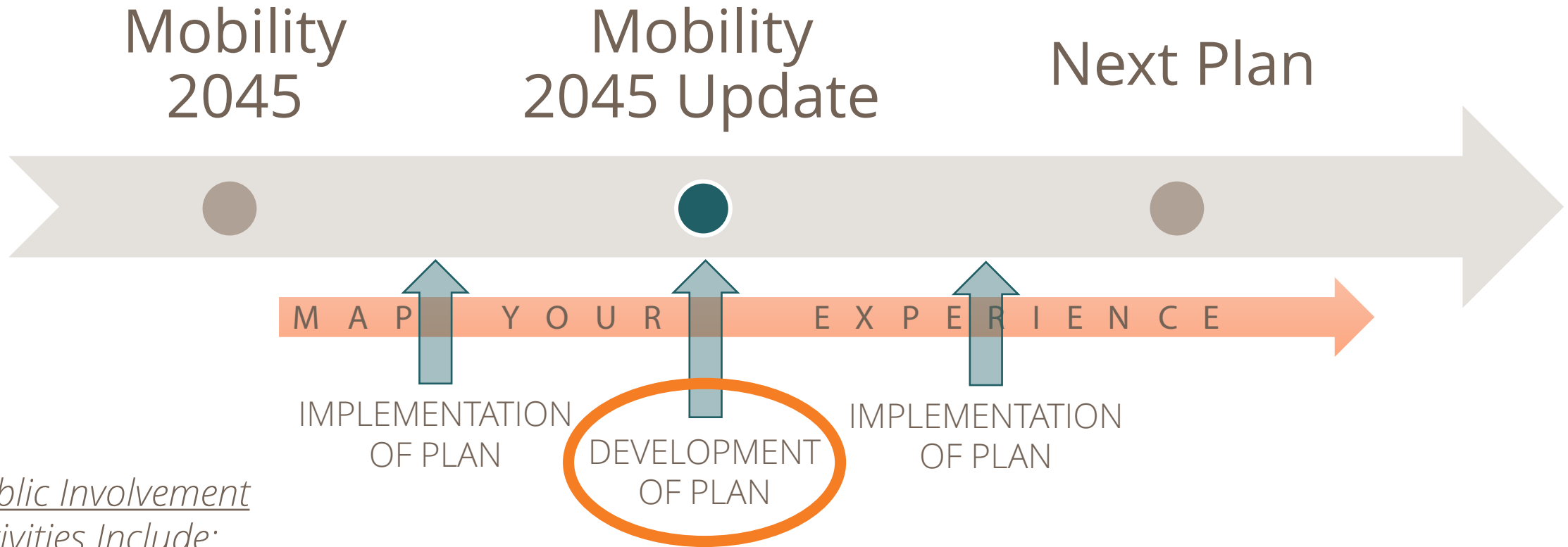
RTC Policy to evaluate nondiscrimination for Protected Groups to ensure no disparate impacts

- Access to Jobs
- Access to Hospitals and Universities
- Proximity to Congested Transportation Facilities
- Average Travel Time
- Tolloed Facility Recommendations

# ACCESS TO JOBS

		PERCENT CHANGE CURRENT CONDITIONS TO 2045 BUILD CONDITIONS	
Access to Jobs by <i>Transit</i> (within 60 minutes)	Protected Groups	+39% ▲	<input checked="" type="checkbox"/> No Disparate Impacts  Increase in transit supply and employment in urban areas by 2045 affects <u>all</u> groups <u>positively</u>
	Non-Protected Groups	+21% ▲	
Access to Jobs by <i>Auto</i> (within 30 Minutes)	Protected Groups	-7% ▼	<input checked="" type="checkbox"/> No Disparate Impacts  Increase in roadway congestion affects <u>all</u> groups <u>negatively</u>
	Non-Protected Groups	-18% ▼	

# 5 PUBLIC INPUT OPPORTUNITY



Public Involvement  
Activities Include:

- Public Meetings
- Speaking Engagements
- Outreach Events
- Publications
- Press Releases
- Social Media
- Development Activities



# HOW TO COMMENT

[www.nctcog.org/PlanInProgress](http://www.nctcog.org/PlanInProgress)

## Mobility 2045 Update Official Public Comment Form

The North Central Texas Council of Governments invites your feedback on plans for the future of transportation in the Dallas-Fort Worth region during the 60-day public comment period, beginning **April 1, 2022**, and concluding **May 31, 2022**. Follow the instructions below to provide comments and sign up for email updates.

Participant Information

Comment

\* **Please provide your name and preferred contact information.** Check the box below if you would also like to sign up for email updates on Mobility 2045 Update.

Your name and comment will be public, but all contact information will be confidential.

You've successfully responded to this form.

[View form again](#)

## MATERIALS FOR REVIEW

### [Draft Mobility 2045 Update](#)

- Maps
- Tables
- Plan document

### [Plan in Progress](#)

- Background information
- Resources
- Mobility 2045 Update news



Comments on the draft plan accepted **online**, by **mail**, **phone**, or **email** during the 60-day public comment period. Visit the website for full details.

Comments also accepted as part of this NCTCOG public input opportunity.

# MAP YOUR EXPERIENCE

## Bike/Ped

- 1 Sidewalk/Trail Availability
- 2 Safety
- 3 Lanes/Stripes/Markings

Accessibility is the top concern for this mode. Safety is a top factor impeding people from walking or biking.

## Transit

- 1 Stops/Stations Needed
- 2 Other
- 3 Service Frequency

Transit options in areas without existing service, and increasing frequency in areas with it, are top concerns.

## Roadway

- 1 Traffic
- 2 Safety
- 3 Road Condition

Safety of merging, poor visibility, and blind spots are often mentioned.

# YOU CAN STILL PROVIDE INPUT



- 📍 MYE is available online, anytime, in English and Spanish
- 📍 Mapping your travel experience helps us understand regional travel issues people are facing
- 📍 Comment on roadway, transit, bicycle and pedestrian topics, and more at:

[www.nctcog.org/MapYourExperience](http://www.nctcog.org/MapYourExperience)





# CONTACTS

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## Air Quality Conformity



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# 6 TRANSPORTATION CONFORMITY



# 2022 TRANSPORTATION AIR QUALITY CONFORMITY ANALYSIS

## PURPOSE

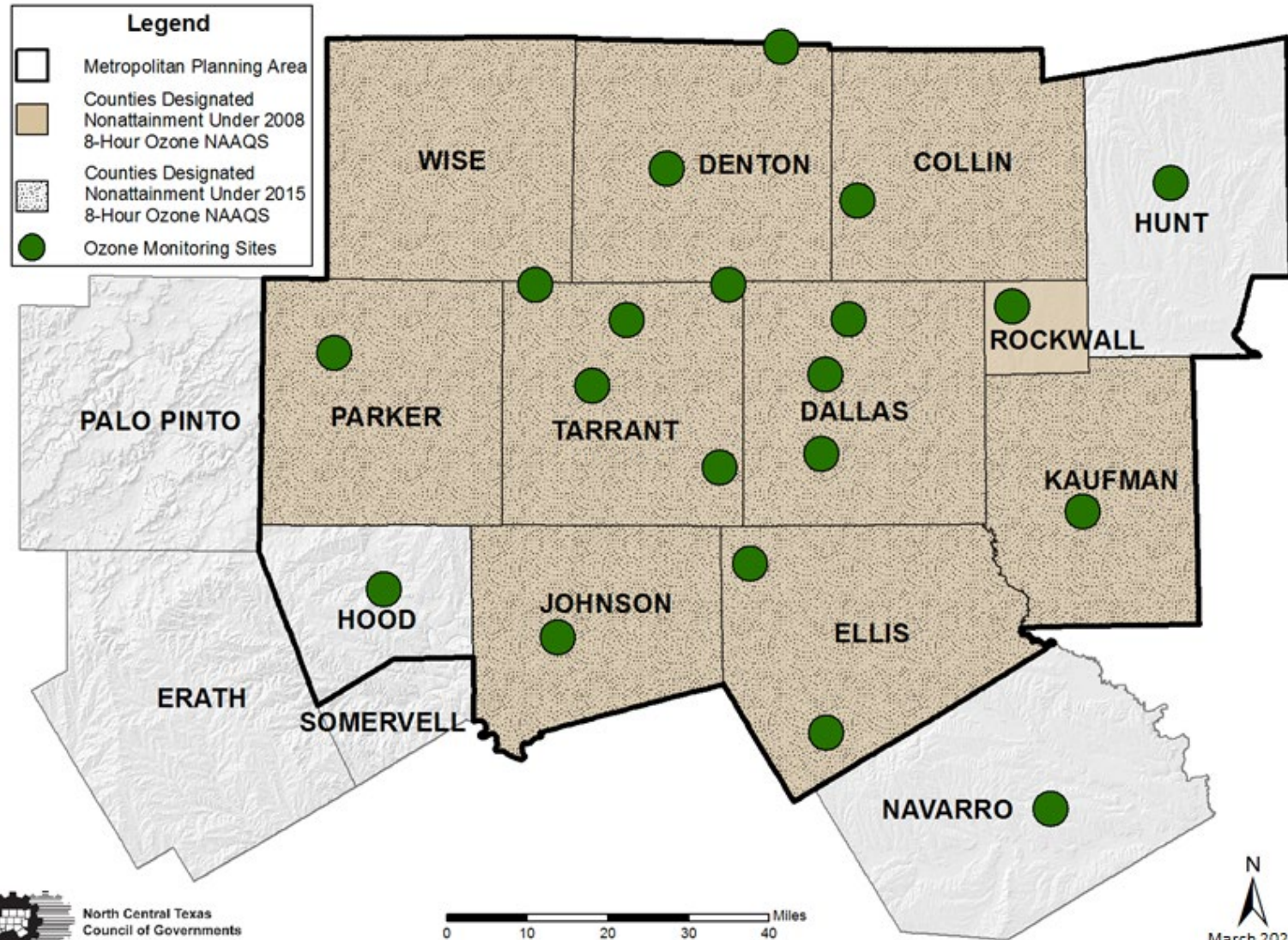
Required by Federal Legislation

Demonstrates that projected emissions from transportation projects are within emission limits (Motor Vehicle Emissions Budgets) established by the State Implementation Plan (SIP)

Ensures federal funding and approval is applied to transportation projects that are consistent with air quality planning goals

# 2022 TRANSPORTATION AIR QUALITY CONFORMITY ANALYSIS

Nonattainment Areas Under the 8-Hour Ozone Standards





# 2022 TRANSPORTATION AIR QUALITY CONFORMITY ANALYSIS

## Reason and Highlights

Mobility 2045 (previous plan)

Adopted by RTC on June 14, 2018

Achieved USDOT Transportation Conformity Determination on November 21, 2018

Updated plan, with conformity determination, required within four years

## Scenarios

Conformity Demonstration Against Current Motor Vehicle Emissions Budgets  
(Analysis year 2017, Meteorological Data 2012), **OR**

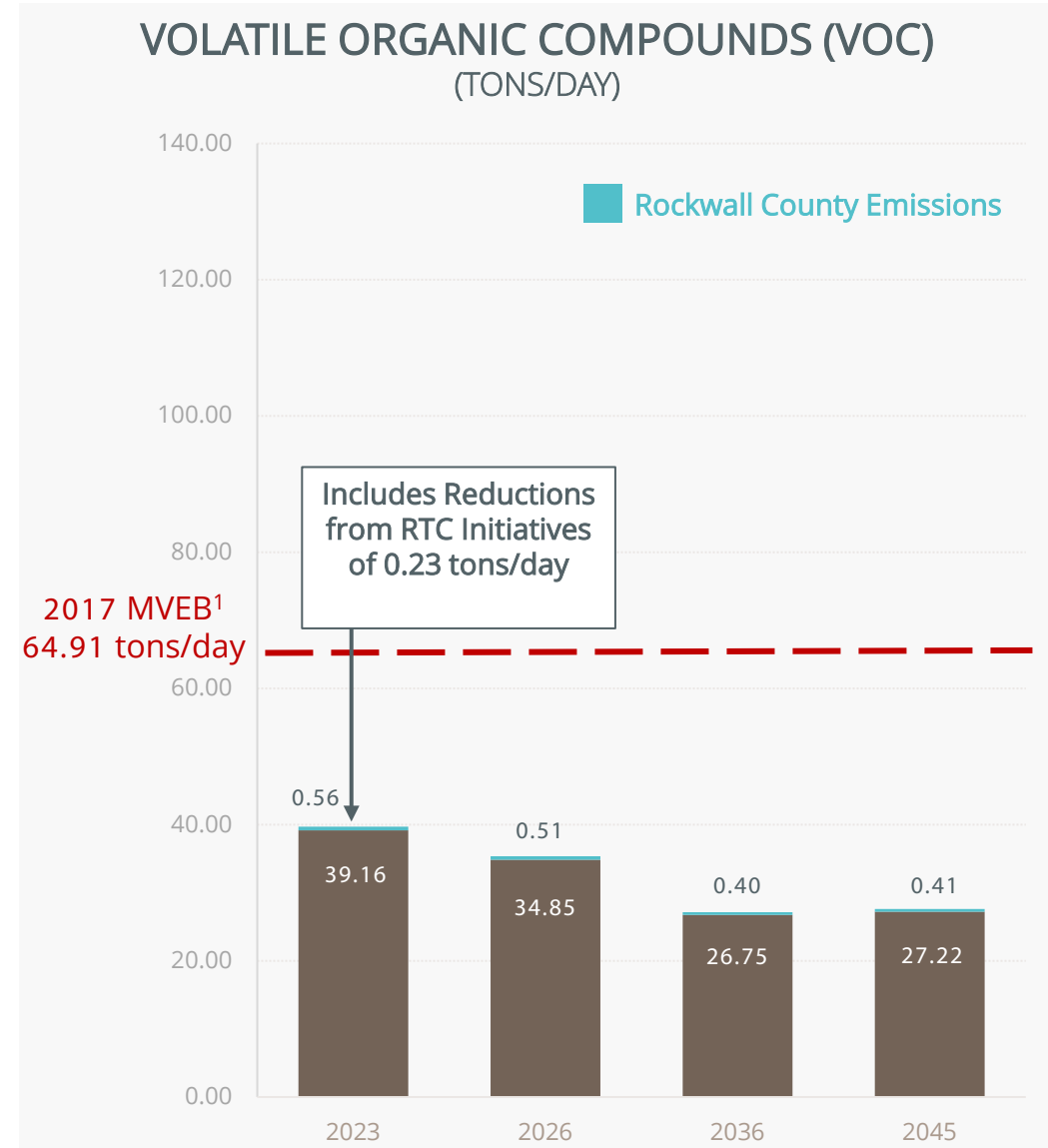
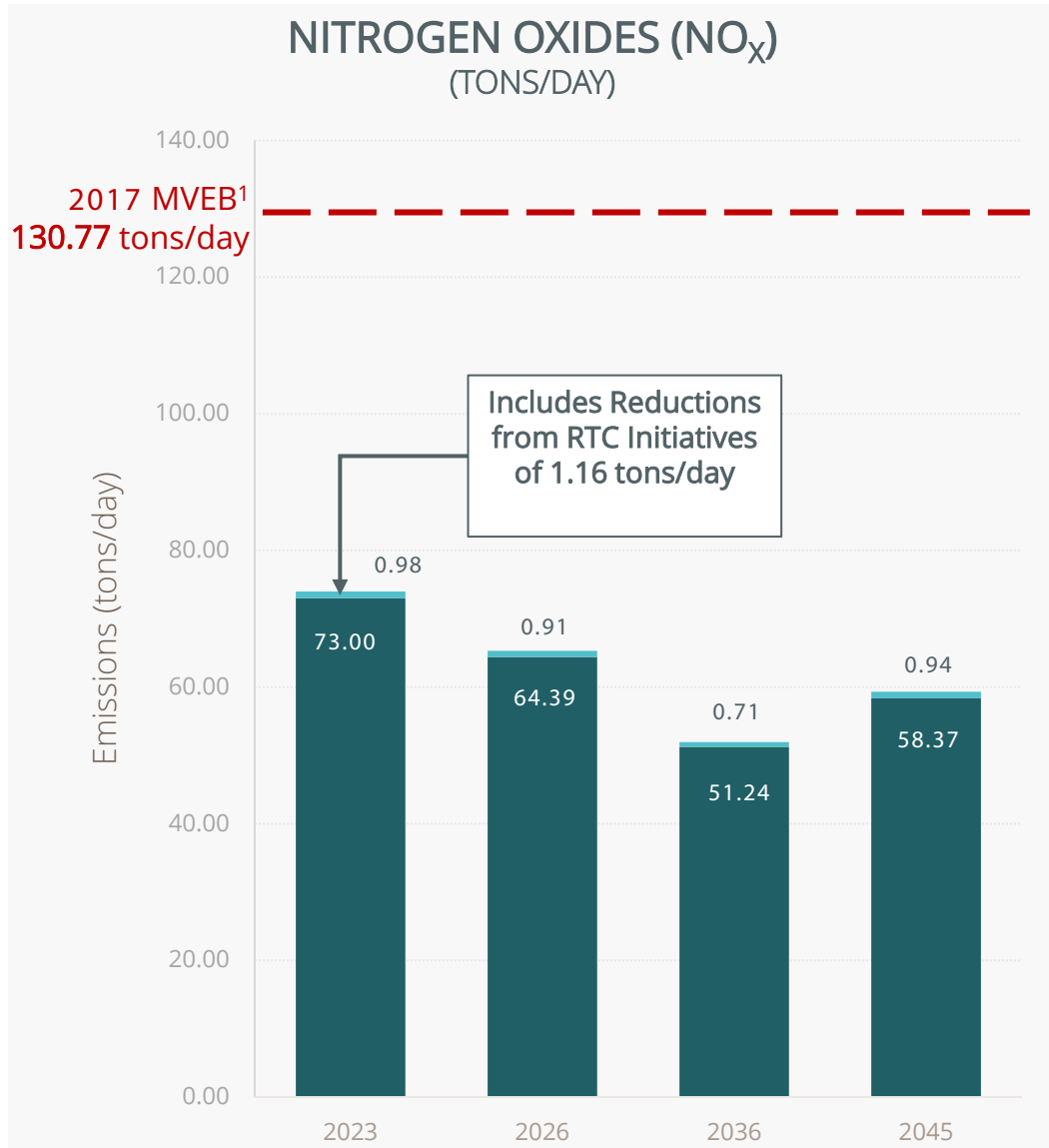
Conformity Demonstration Against Anticipated Motor Vehicle Emissions Budgets  
(Analysis year 2020, Meteorological Data 2011)

## Analysis Years

2023, 2026, 2036, and 2045

# 2023 TRANSPORTATION CONFORMITY RESULTS

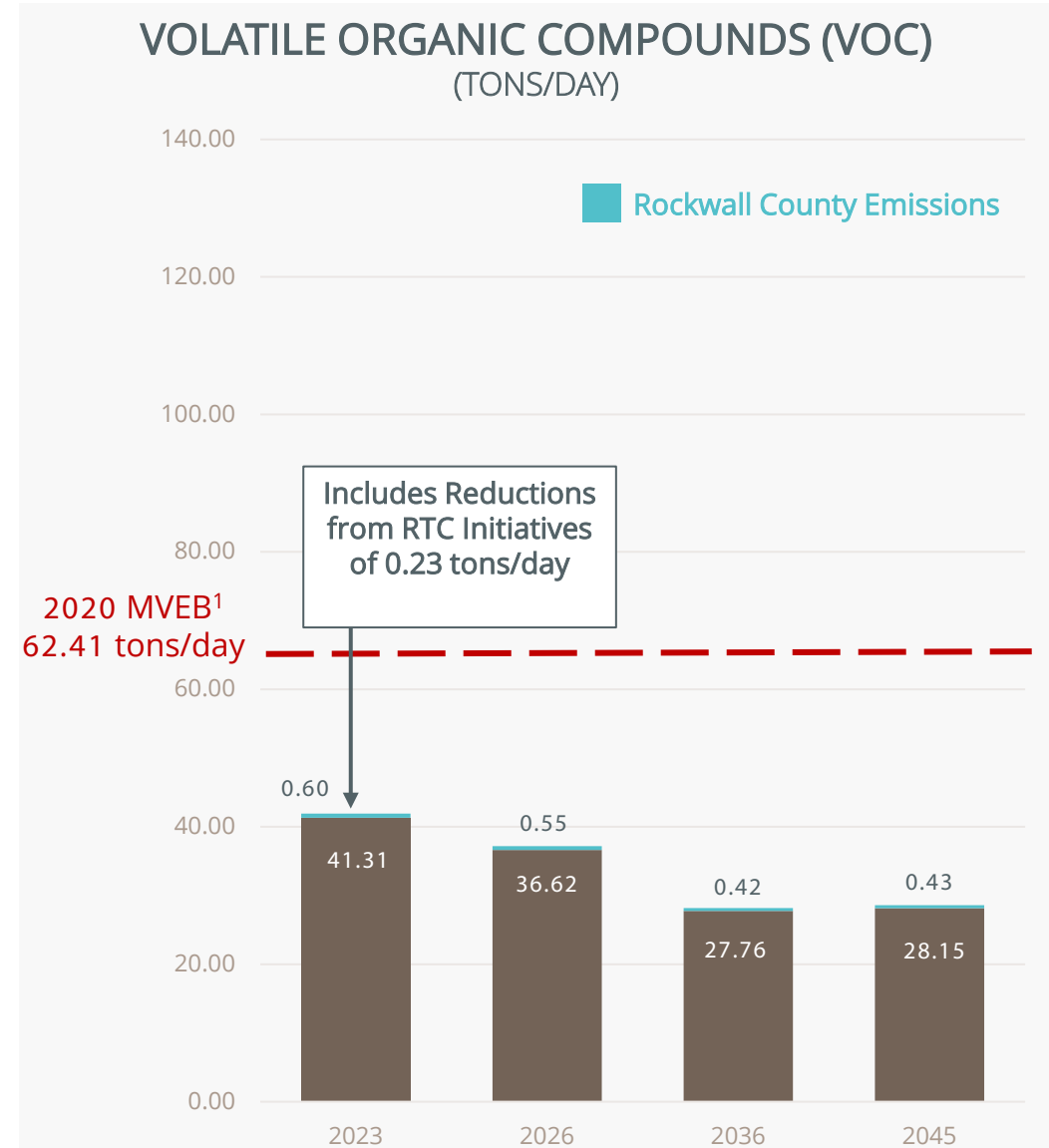
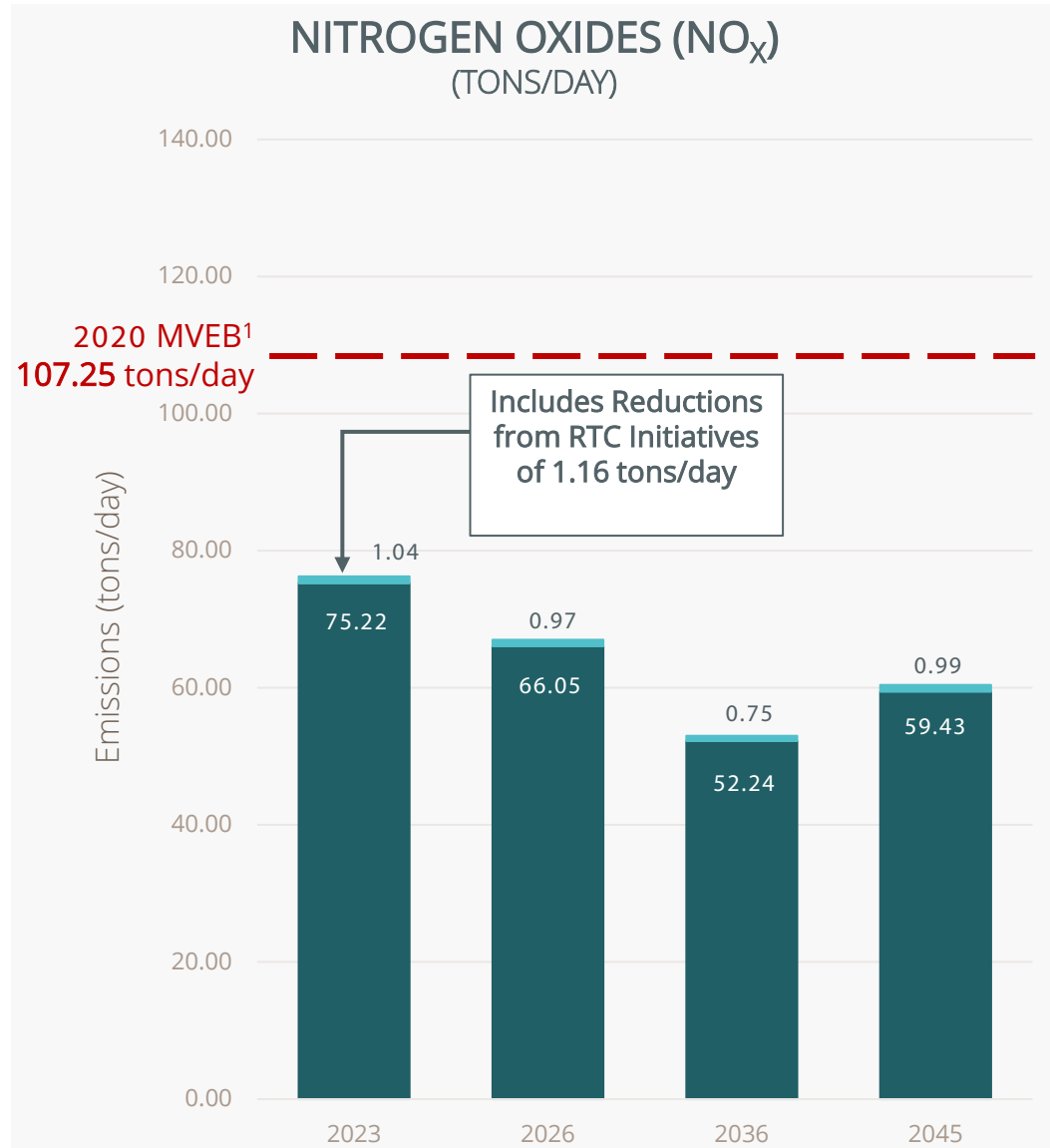
## (SCENARIO 1) DRAFT



<sup>1</sup>Adequacy Status of the Dallas-Fort Worth, Texas Attainment Demonstration 8-Hour Ozone Motor Vehicle Emission Budgets for Transportation Conformity Purposes, [81 FR](#)

# 2023 TRANSPORTATION CONFORMITY RESULTS

## (SCENARIO 2) DRAFT



<sup>1</sup>Anticipated Dallas-Fort Worth, Texas Reasonable Further Progress 8-Hour Ozone Motor Vehicle Emission Budgets for Transportation Conformity Purposes, [85 FR](#)