

MOBILITY 2045 UPDATE

DRAFT RECOMMENDATIONS

NCTCOG Public Meeting
May 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

1

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



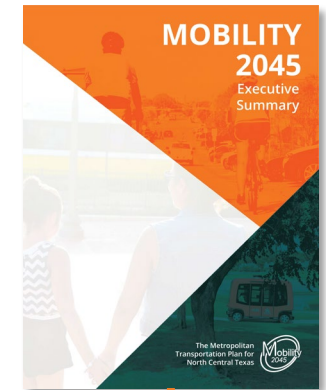
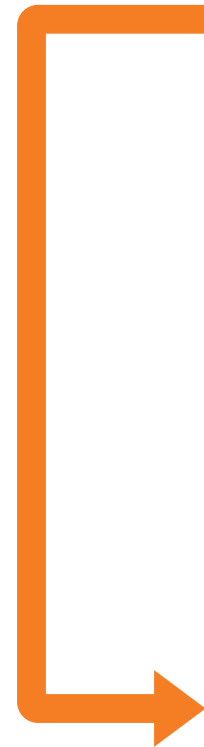
Identifies Policies, Programs, and Projects for Continued Development



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

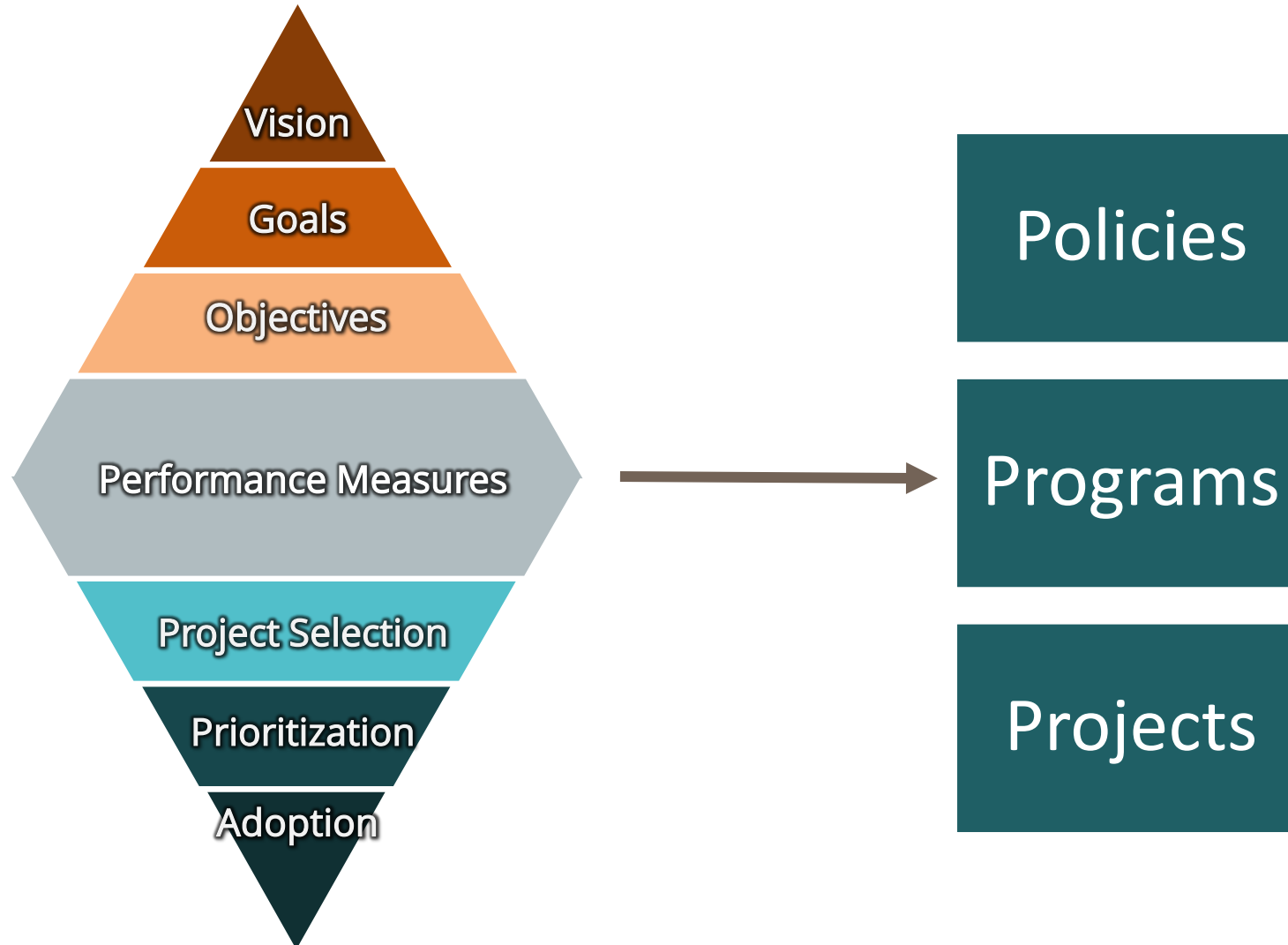
NONDISCRIMINATION ANALYSIS

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

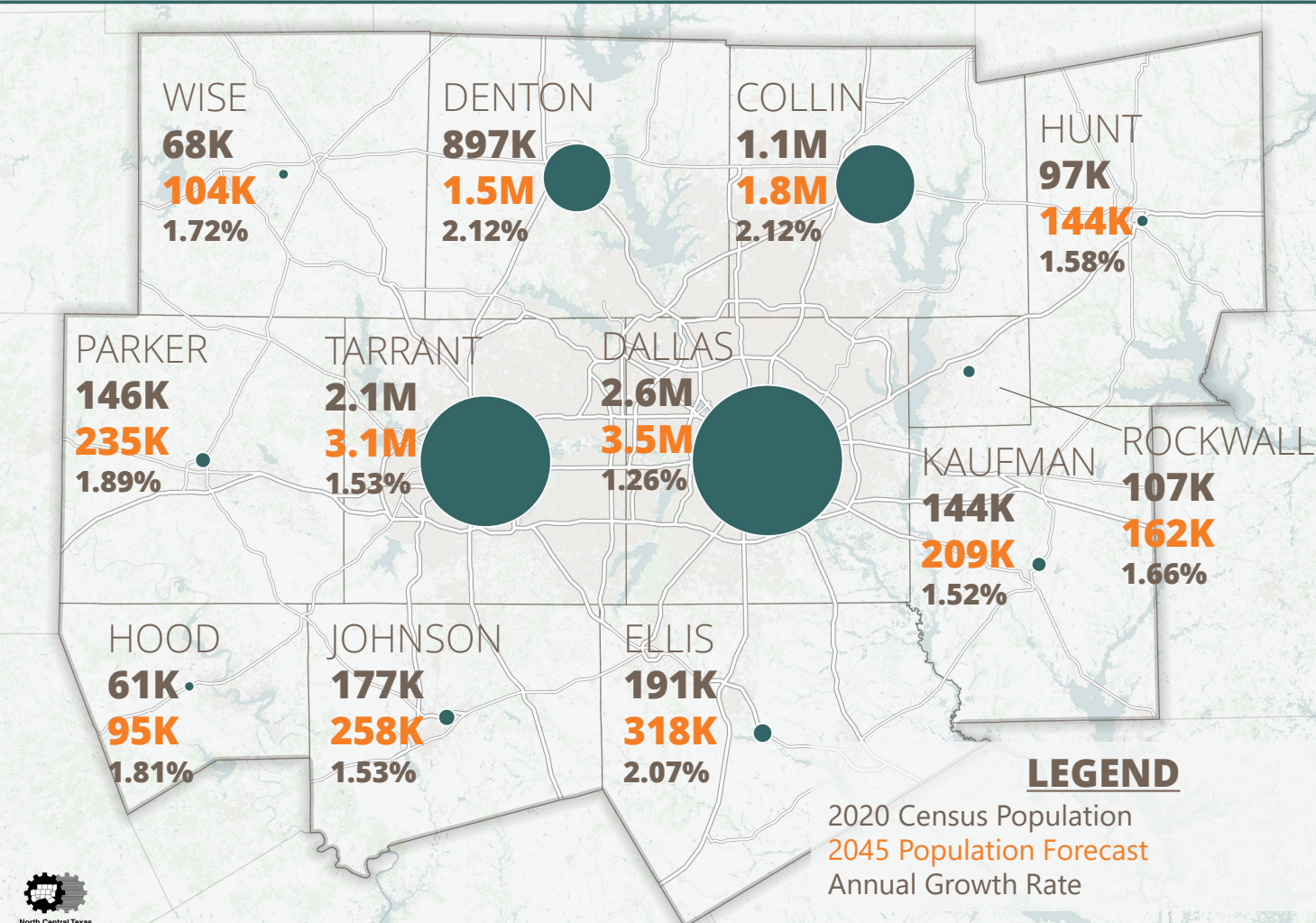
Implementation

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

2

REGIONAL PERSPECTIVE

Population Forecast by County



4th

Largest metro area in US

30%

of Texas' GDP

40%

Increase in population forecasted

45%

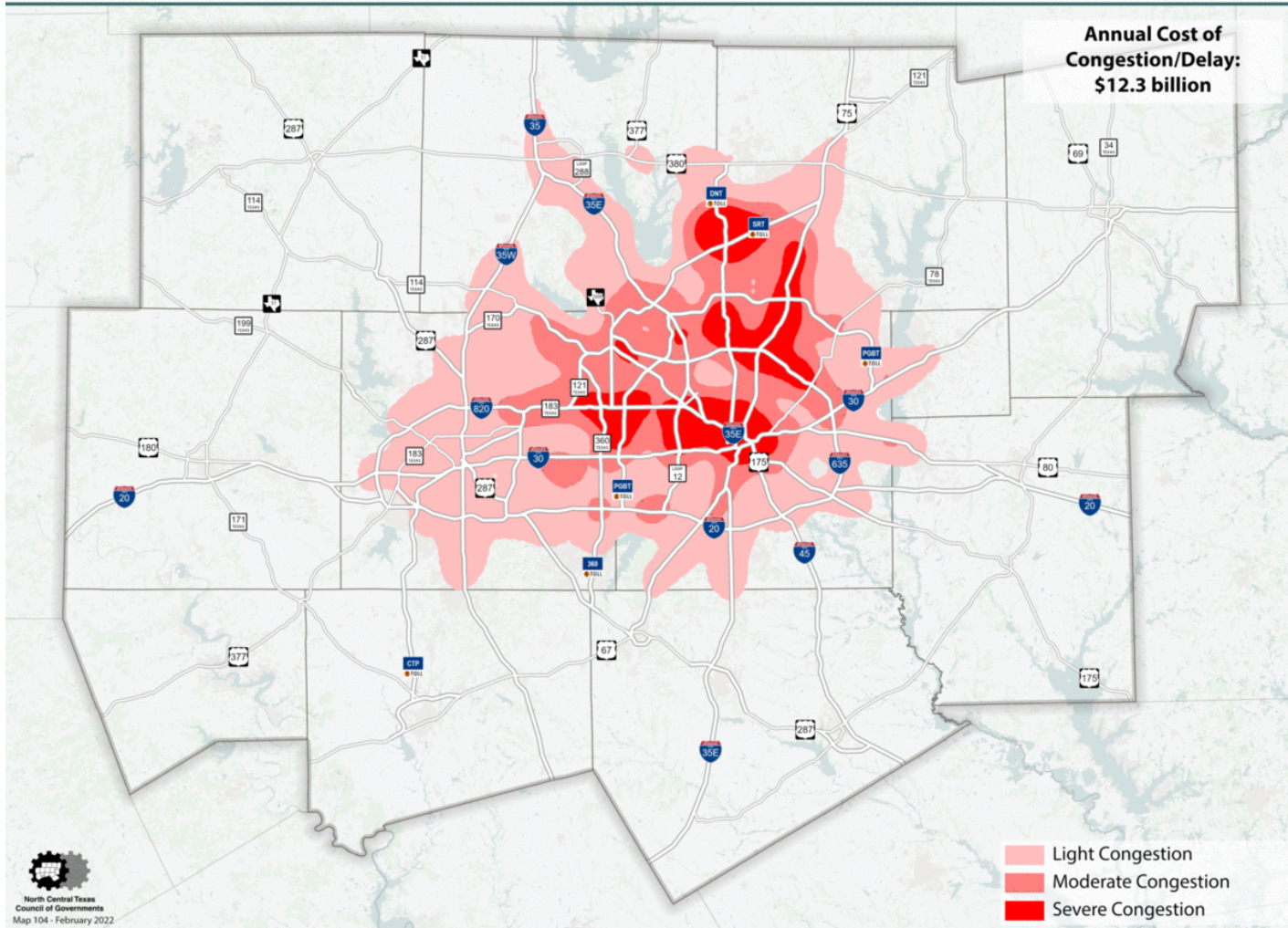
Increase in employment forecasted

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

Infrastructure Maintenance

Maintain and operate existing transit and roadway facilities

\$39.5 B

Management and Operations

Improve efficiency and remove trips from system

\$9.5 B

Growth, Development, and Land Use Strategies

Improve transportation and land use balance

\$1.5 B

STRATEGIC INFRASTRUCTURE INVESTMENT

Rail and Bus

Encourage switch to transit

\$44.9 B

HOV/Managed Lanes

Increase auto occupancy

\$52.8 B

Freeways/Tollways and Arterials

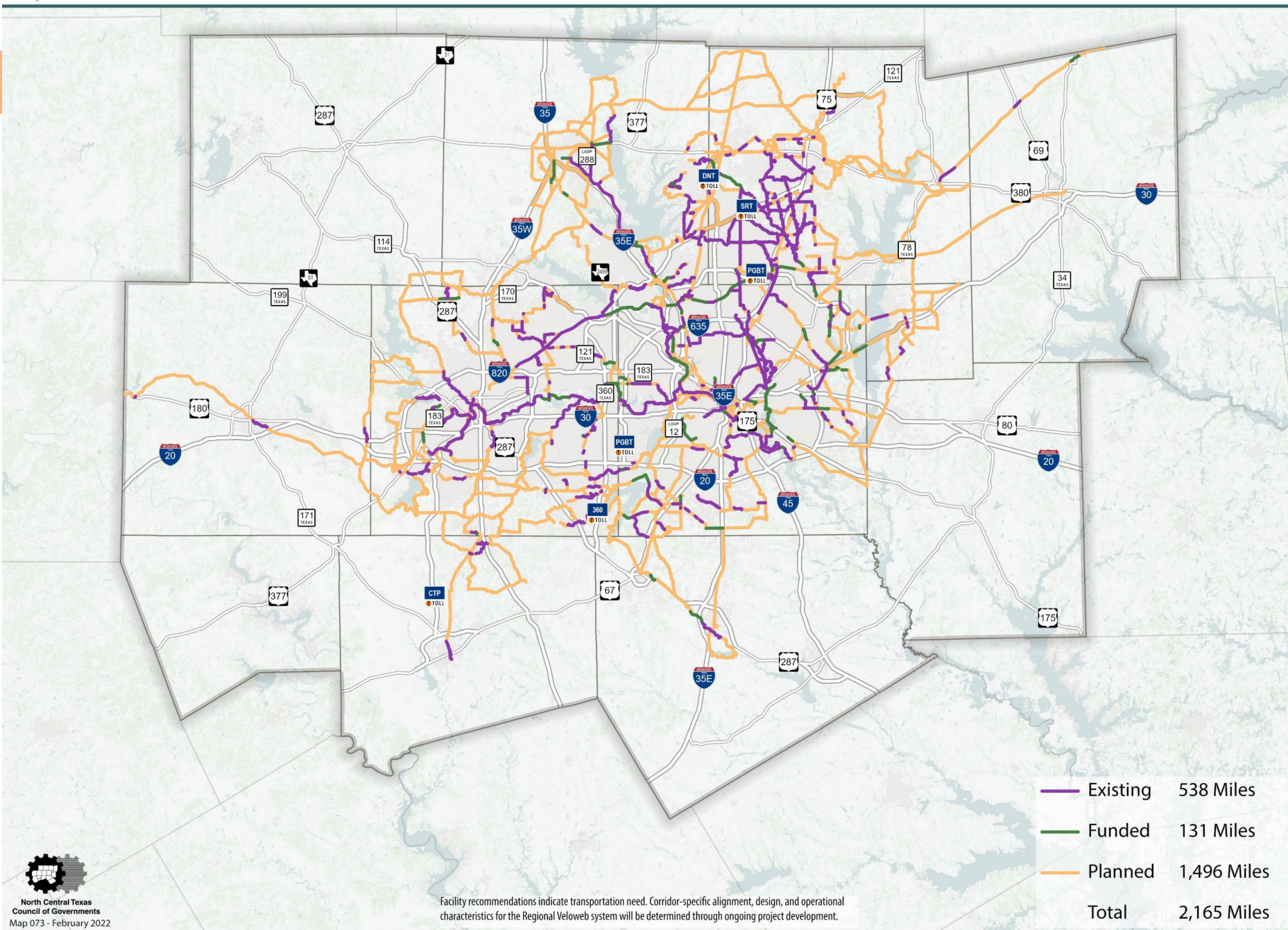
Add vehicle capacity

TOTAL

\$148.3 B

Financial Requirements

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



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



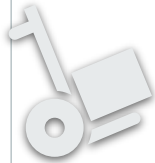
Advance High-Speed Transportation recommendations

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

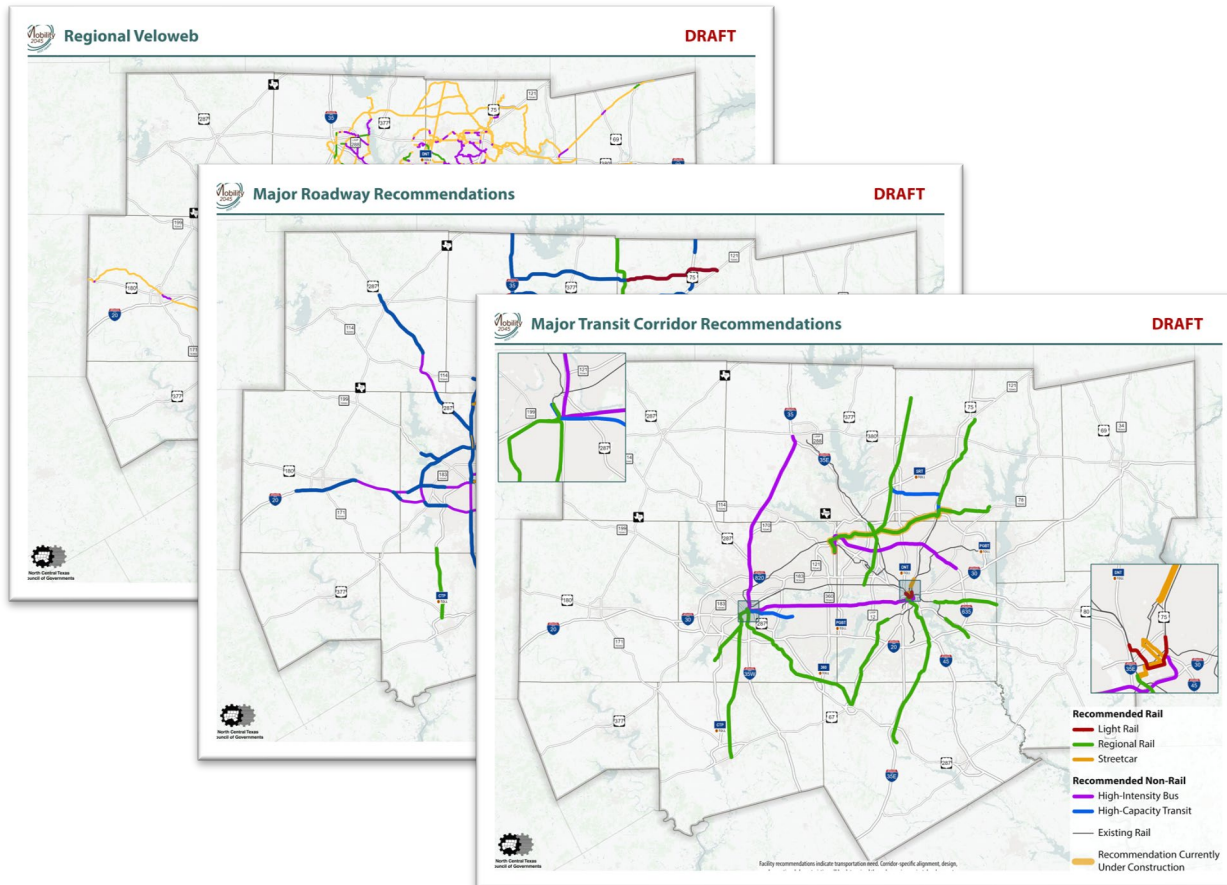


Internet and Broadband

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



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

HOW TO COMMENT

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.

CONTACTS

Mobility Plan



Amy Johnson

Senior Transportation Planner

ajohnson@nctcog.org

817-704-5608



Brendon Wheeler, PE

Program Manager

bwheeler@nctcog.org

682-433-0478

Environmental Coordination | Environmental Justice



Kate Zielke

Principal Transportation Planner

kzielke@nctcog.org

817-608-2395

Air Quality Conformity



Vivek Thimmavajjhala

Transportation System Modeler II

vthimmavajjhala@nctcog.org

817-704-2504

6 TRANSPORTATION CONFORMITY



2022 TRANSPORTATION AIR QUALITY CONFORMITY ANALYSIS

PURPOSE

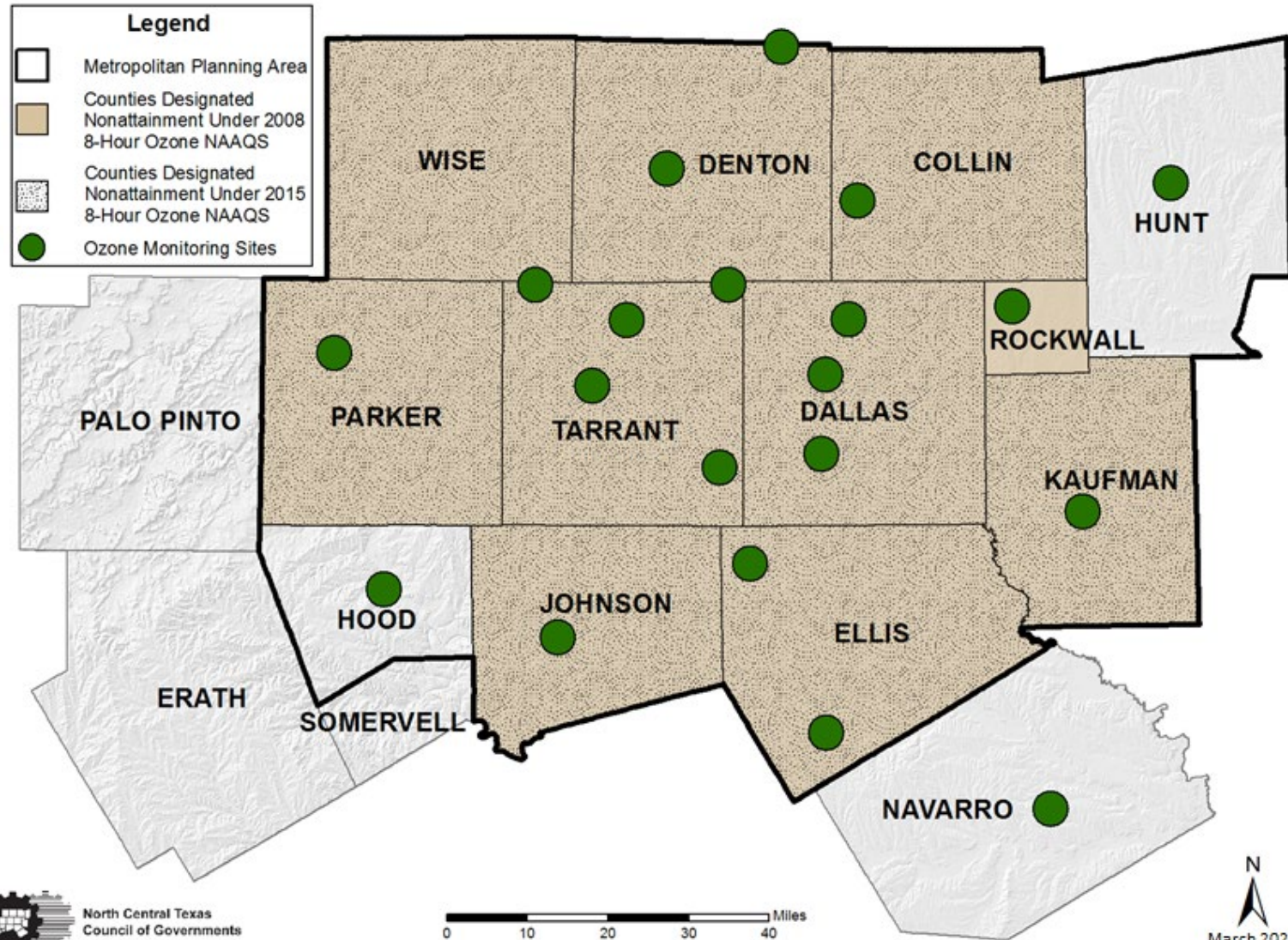
Required by Federal Legislation

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**

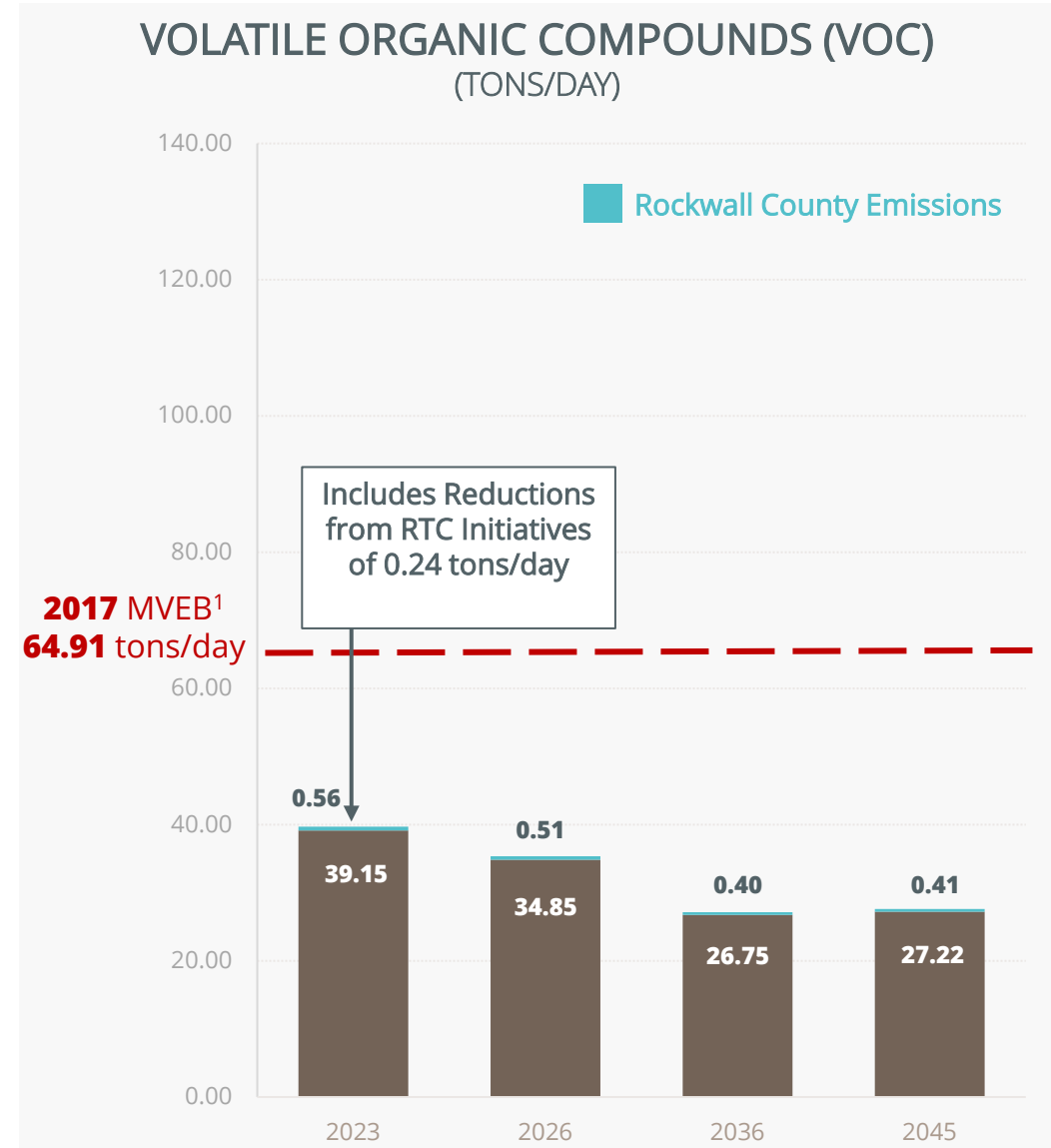
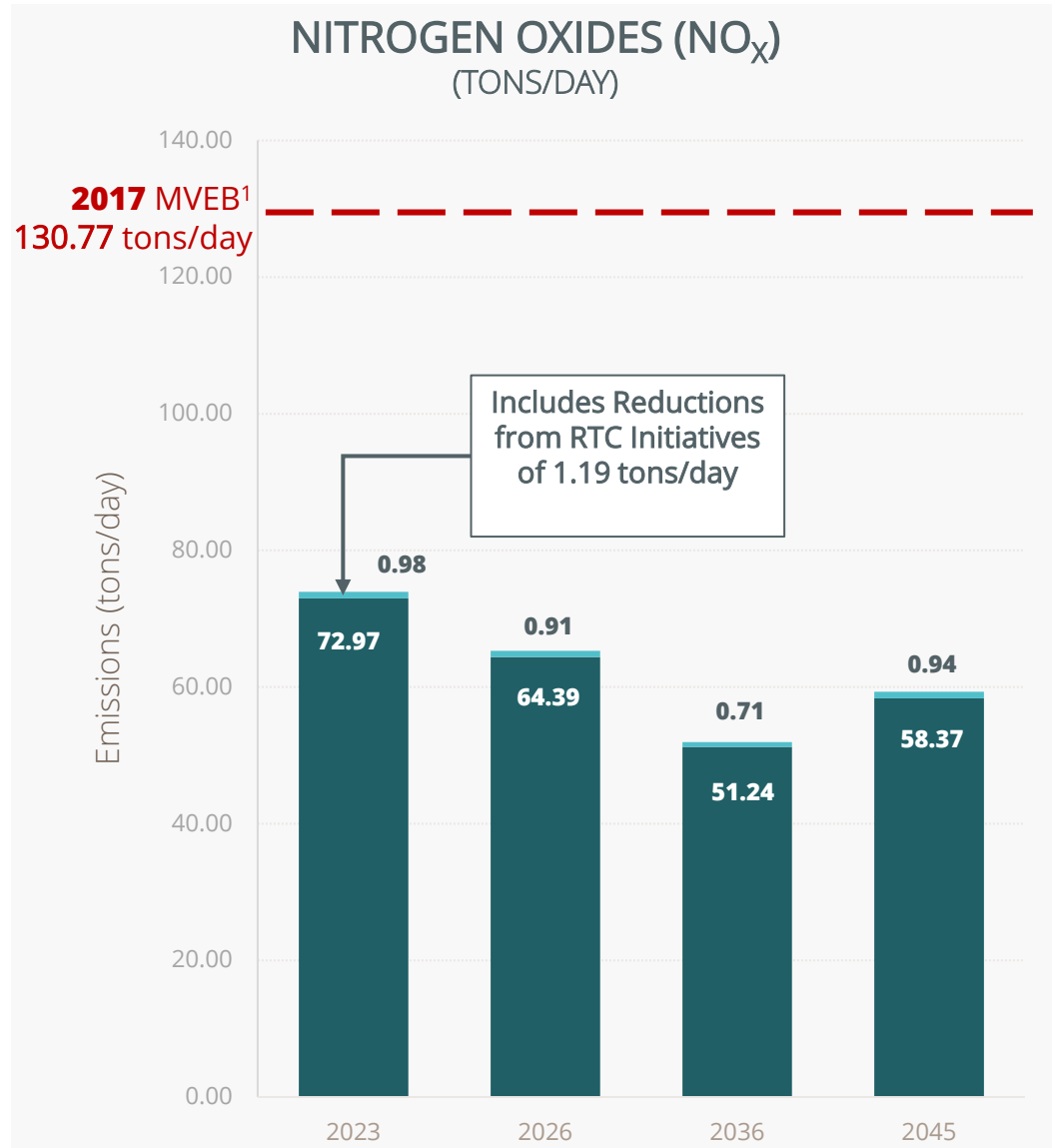
Conformity Demonstration Against Anticipated Motor Vehicle Emissions Budgets
(Analysis year 2020, Meteorological Data 2011)

Analysis Years

2023, 2026, 2036, and 2045

2023 TRANSPORTATION CONFORMITY RESULTS

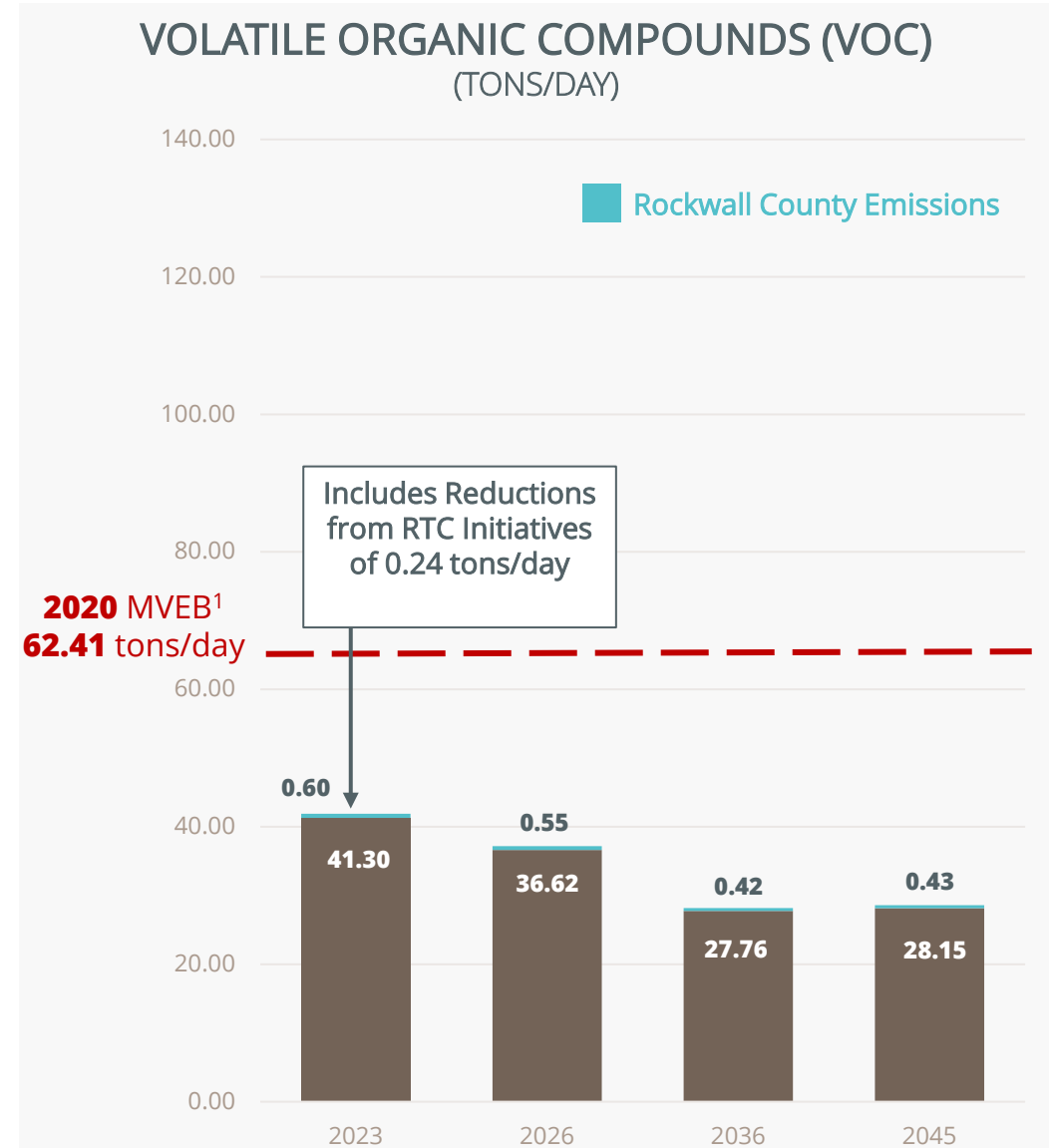
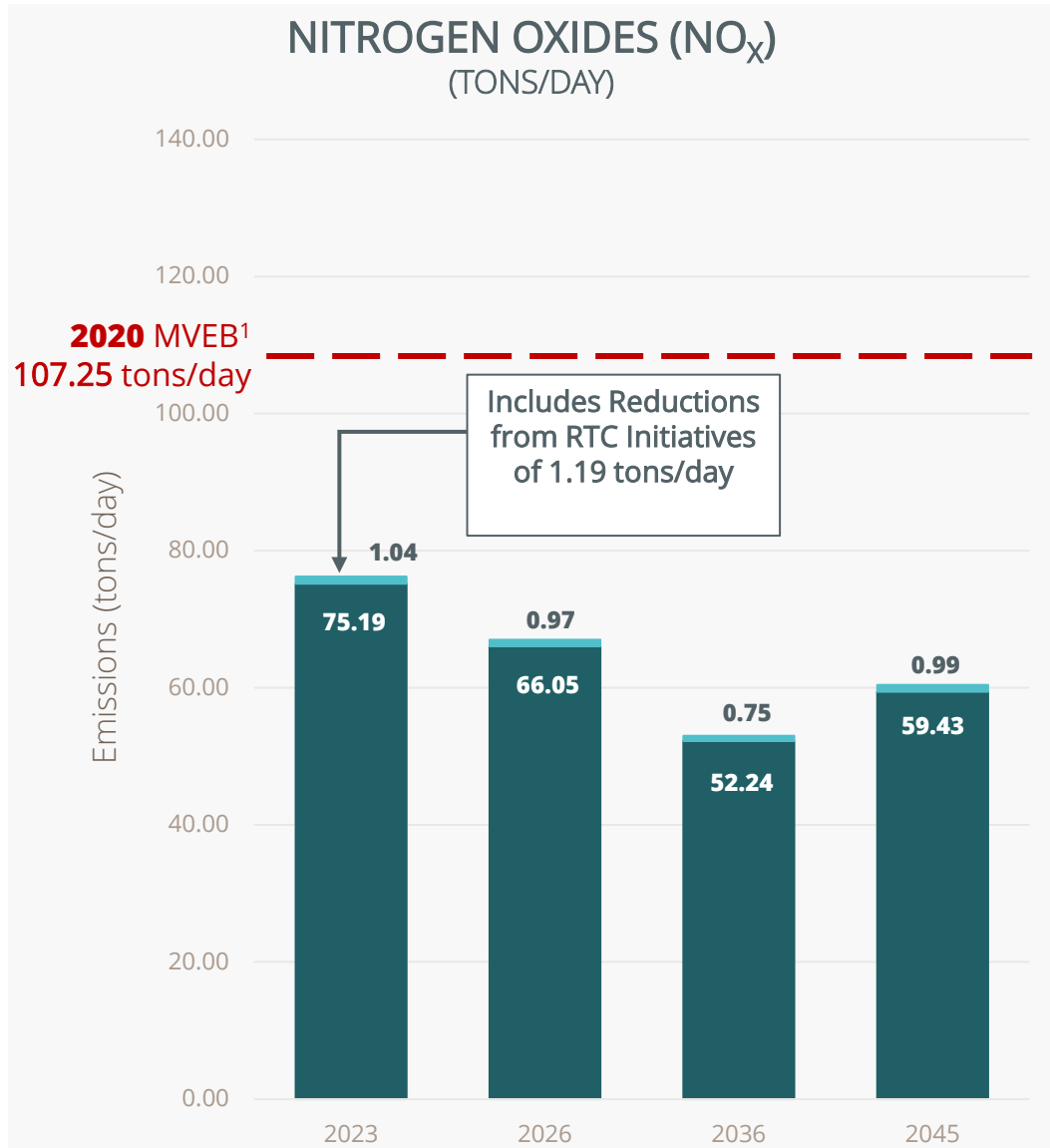
(SCENARIO 1) DRAFT



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

2023 TRANSPORTATION CONFORMITY RESULTS

(SCENARIO 2) DRAFT



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