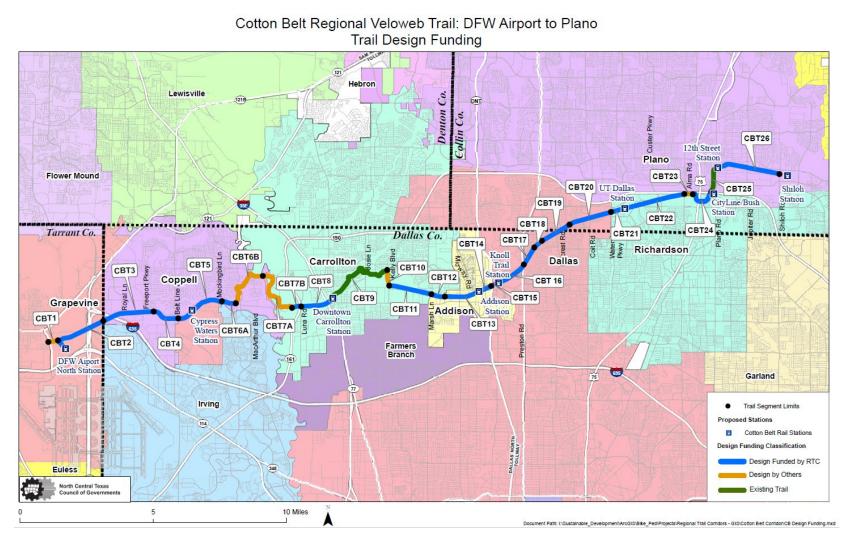


# History



- Regional priority
- Seven cities in three counties
- 24+ miles of trail
- Dallas Area Rapid
   Transit (DART)
   partnership to
   implement with the
   Silver Line Rail
- Engineering design currently underway

Additional Professional Services

# Timeline

Date			
2018 (Oct)	RTC approved funding for design (\$8.2M) and construction of the Cotton Belt Trail "critical" sections (\$19.46M federal and \$1.81M local)		
2020 (Sept)	RTC approved additional funding for design (\$8.2M to \$14.9M)		
2020 (Nov)	Notice to Proceed Trail engineering design		
2023	Phase 1 Construction Initiated (five critical bridges)		
2023 (June)	USDOT RAISE Grant Award Announced (\$25M)		
2023 (Oct)	TxDOT Transportation Alternatives Award Announced (\$25M)		
2024 (spring)	Phase 2 Construction: Local Acquisition of Easements completed		
2024 (spring / early summer)	Phase 2 Project Advertisement, Open Bid, Negotiate and Award Construction Contract		
2024 (fall)	Phase 2 Begin Construction		

Additional Professional Services 3

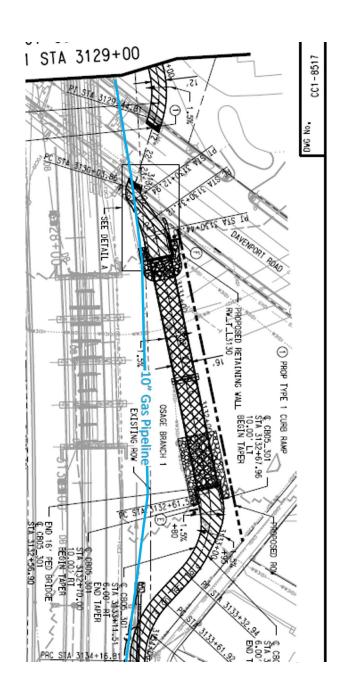
### **Cotton Belt Regional Veloweb Trail**

Phase 2 Construction: Addison to Plano



# Design Challenges

- Silver Line Environmental Impact Statement identified constraints with the five percent alignment design
- Design process identified additional unanticipated constraints:
  - gas pipelines, overhead powerlines, valley storage/floodplain restrictions, drainage infrastructure, signalization requirements at roadways, rail signal equipment, easement surveys outside of DART right of way, and revisions resulting from local government staff feedback/requests
- Developed alternatives to address/avoid constraints



# Additional Professional Services

- Additional engineering design is needed to adequately complete the plans that will be issued for construction
- Staff requests up to \$4 Million of federal Congestion Mitigation and Air Quality Improvement Program funds for the additional professional design services

 Communication with DART and Local Government Partners regarding any unapproved changes in design is prohibited. Stricter approval process

6

# Requested Action

Recommend Regional Transportation Council Approval of:

- Up to \$4 Million of federal Congestion Mitigation and Air Quality Improvement Program funds with 800,000 Regional Transportation Development Credits for additional professional services.
- Administratively amending the TIP/STIP and other planning/administrative documents to incorporate these changes.

7

# Contact Us



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Senior Program Manager

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Additional Professional Services

# Safety Program Implementation of Innovative Ideas to Reduce Youth Fatalities Due to Motor Vehicle Crashes

Surface Transportation Technical Committee

Natalie Bettger Senior Program Manager December 8, 2023

# \$50 Million Regional Transportation Council Safety Program (DFW Region) FY 24-26

Category	Final	
Speed Enforcement <sup>1</sup>	\$7 Million	
Speed Education <sup>2</sup>	\$2 Million	
Bicycle/Ped Education <sup>2</sup>	\$2 Million	
Bicycle/Ped Engineering <sup>3</sup>	\$10 Million	
Freeway Operations Engineering and Intercity Connections <sup>3</sup>	\$25 Million	
Other	\$4 Million	+4
Totals	\$50 Million	

<sup>&</sup>lt;sup>1</sup> Increased Law Enforcement Presence

 $<sup>^{\</sup>rm 2}$  Enhance Existing Education Campaigns – Drive Aware N. Texas and Look Out Texans

<sup>2</sup> 

# What are we missing?

### In Texas:

12 percent Licensed Drivers under 25 and account for 19 percent of fatalities in motor vehicle crashes.

# Call for Partners for Youth Innovative Ideas

Colleges, Universities and School Districts

Mental Health Experts

Law Enforcement

Driver Education Curriculum Developers

Social Media / Gaming Industry

# **Action Requesting**

# Recommend RTC approval of

- Allocate \$4M in Regional Toll Revenue to focus on ways to reduce the youth fatality rate associated with motor vehicle crashes in the Dallas-Fort Worth Region.
- Amending the Transportation Improvement Program
   (TIP)/Statewide Transportation Improvement Program (STIP)
   and updating any administrative and/or planning documents as
   needed to incorporate the project funding

# **NCTCOG Safety Program Contacts**

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Senior Program Manager
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Michael Morris, P.E.

Director of Transportation

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# IMPROVING COMMUNICATION AND PARTNERSHIP BETWEEN THE REGIONAL TRANSPORTATION COUNCIL (RTC) AND THE TEXAS TRANSPORTATION COMMISSION (TTC)

**50 Years of Success** 

October 31, 2023

### **NCTCOG REGIONAL PERSPECTIVE**

### **Population**

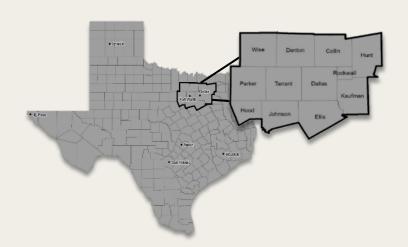
- •2023: 8.2 Million
- •2045: 11.2 Million
- •4<sup>th</sup> Largest Metropolitan Area by Population
- •1 Million Added Every 7 Years

### Area

- •12 Counties
- •9,441 Square Miles
- •2<sup>nd</sup> Largest Metropolitan Planning Area by Land Area

### Lane Miles

- •Freeways: 4,788 in 2020/ 6,098 by 2045
- Priced Facilities: 1,205 in 2020 / 1,826 by 2045



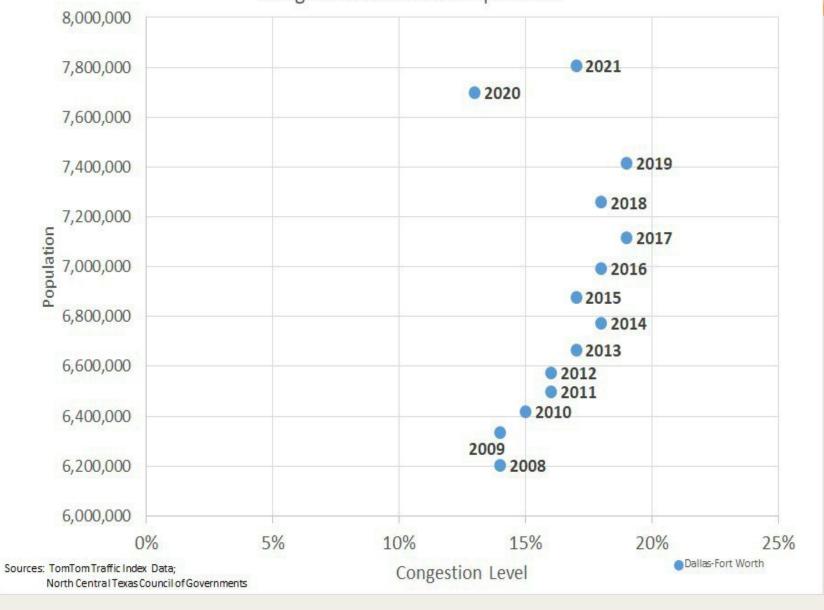
### Economy

- Home to 22 Fortune 500 Firms
- Projected to be ranked 14<sup>th</sup> globally in metro GDP
- •Represents 30% of State's Economy

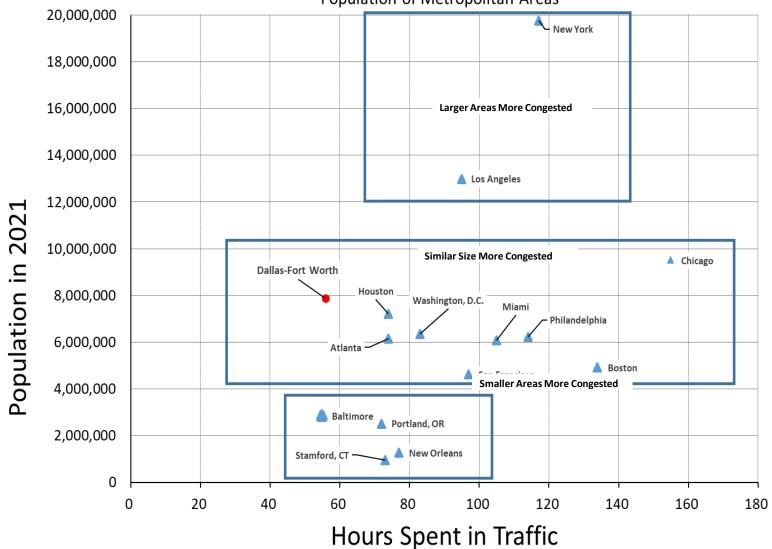
### **MANAGED LANES EVOLUTION**



# Dallas-Fort Worth Congestion Levels and Population



### 15 Most Congested Regions Comparison of Hours Spent in Traffic and Population of Metropolitan Areas



Sources: INRIX 2022 Data, Census 2021 and
North Central Texas Council of Governments

# TxDOT MINUTE ORDER #109370: TEXAS METROPOLITAN MOBILITY PLAN (AUGUST 28, 2003)

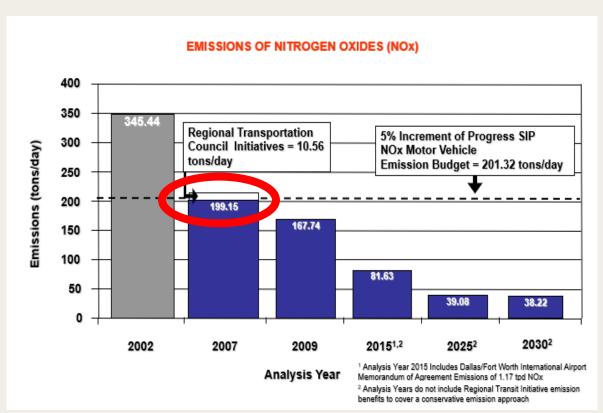
"It is therefore ordered that the commission accepts this report and encourages partnerships with local entities in the eight metropolitan areas to implement the long range mobility plan."

- "...enabling a philosophical change in the way we as a state will attack congestion."
- "...will increase local control and decision-making authority."
- "...recommends that TxDOT shift from funding projects one at a time to a regional distribution of a predictable amount of funding."
- "...the plan makes it explicit that the distributed TxDOT funds would not be reduced for those areas that develop gap funding initiatives."

Commissioner Ric Williamson: "The more you choose local sources of funds, whether that's local taxes or local tolls, the more money will be invested in your community; you will not be penalized for being aggressive with local funding."

- Citizens of region paying tolls for 52 years
- Now, State moving away from formula allocation
- Fairness to residents is lost

# IMPORTANCE OF REGIONAL AIR QUALITY/ MANAGEMENT AND OPERATIONS PROJECTS



- Air Quality Conformity test results must be below EPA's Motor Vehicle Emission Budget (MVEB).
- Previous Regional
   Transportation Council
   Initiatives (air quality
   projects and programs)
   have allowed region to
   pass Conformity.
- When the MVEB is reset next year, these programs can help tip the scales if regional Conformity is uncertain.

# NTTA/TxDOT STATE INFRASTRUCTURE BANK (SIB) LOAN PARTNERSHIP

- In 2012, TxDOT requested assistance from the RTC to replenish the SIB by "purchasing" an NTTA SIB loan
- NTTA originally took out the loan to finance construction of the President George Bush Turnpike (PGBT)
- In October 2012, the RTC agreed to assist TxDOT and assumed the NTTA SIB loan using \$138 million in Regional Toll Revenue (RTR) funds
- The RTC helped TxDOT by recapitalizing the SIB for future use on other projects across the State

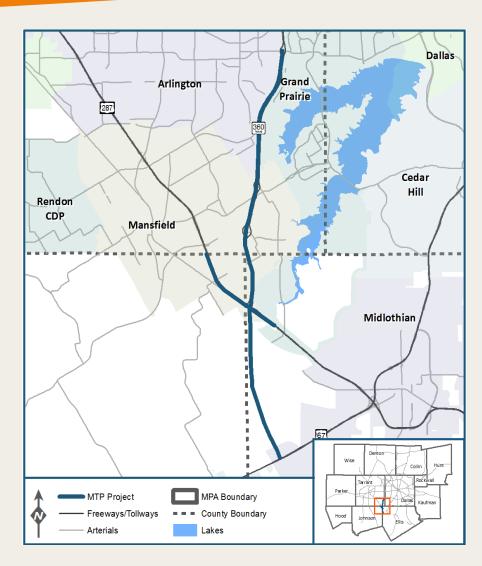
- In 2023, TxDOT
   staff indicated
   that the RTC is not
   "spending" RTR
   funds fast enough
- TxDOT forgets
   partnerships that
   led to "build up"
   of funds

### SH 360 PUBLIC SECTOR PARTNERSHIP

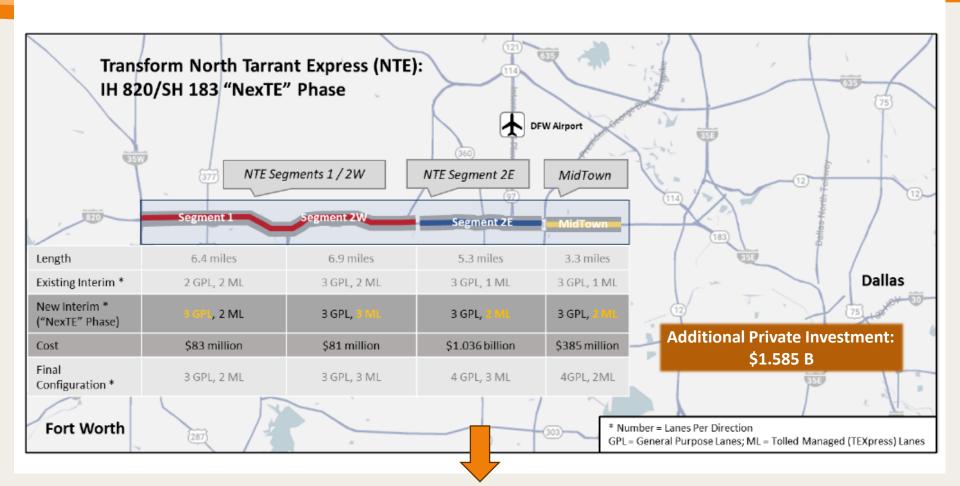
- \$330 Million Design-Build Project
- TxDOT: Construct the project & advance funding
- NTTA: Maintain & operate the facility
- RTC: In 2013, provided a financial backstop to cover the debt service plus operations & maintenance if facility underperformed.
  - In May 2021, the backstop was determined to no longer be needed.

### **Outcomes:**

- 50/50 Revenue Sharing between TxDOT/RTC and NTTA starting in 2050 (can be deferred to 2053 if NTTA builds other improvements first)
- Advanced completion of project by many years (open to traffic May 2018)



## **NORTH TARRANT EXPRESS**



- Aids implementation of an existing P3 agreement
- Will lower tolls on related managed lane facilities
- Will reduce congestion on related main lanes
- Leverages \$1.5 billion in private sector revenues

TxDOT action pending since 2020

10

## **FY 2020 CMAQ LAPSE**

- April 12, 2021 TxDOT notified NCTCOG that \$23,940,109 of federal CMAQ funding had lapsed at the end of FY2020
- FY 2020 year end documentation from TxDOT showed a FY2020 carryover balance of \$16,414,535 federal (with \$8 million already slotted for projects)
  - This means we lost more money in the lapse than TxDOT had previously communicated was available
  - And, \$8 million was already pre-approved by our federal partners for use; TxDOT did not request to use them in time
- Our historical understanding was that TxDOT spent the oldest funding first on a "first in, first out" basis
- TxDOT stopped this practice at some point, not realizing the ramifications

- The mistake made in the previous lapse could still happen under new CMAQ/STBG rule
  - Using lapsed funds as a justification for CMAQ/STBG rule change is inaccurate

### **UTP PROCESS**

- If want Category 12 funds in DFW region, need 50/50 contribution of Category 2 funds. Same does not apply to Category 12 funds placed on major projects in Austin and Houston.
- DFW region is growing by 1 million every 7 years, and is therefore, absorbing the growth, but revenues are going to other areas of the State
- MPOs have to submit projects 3 months before allocations are known and 6 months before TTC project selections are known

- Not consistent across the State
- Regional decisions must be made with incomplete information
- Once information is received, regions have to make final decisions with great haste

### **2024 UTP TRADES**

- TxDOT District staff was instructed to develop a partnership deal with the DFW MPO
- After consulting with the MPO, TxDOT proposed to trade Category 12 and Category 2 funds on projects to advance IH 30 Canyon project
- Draft Category 12 funds would go to the region
- After the trade deal points were settled, existing Category 12 funds on US 380 were removed

- Draft Category 12 funds changed
- Resulted in a net loss of Category
   12 funds on US
   380



 US 380 is both an urban and rural/ intercity route

# PROPOSED CMAQ/STBG/CATEGORY 2 FUNDING RULE CHANGES

- DFW region has implemented 10 Year Milestone Policy and annual project tracking each fiscal year, plus many innovative funding trades to expedite obligation of CMAQ and STBG funds
- DFW region has helped with the August Redistribution since 2018, helping TxDOT gain obligation authority from other states
- DFW MPO and TxDOT District have maintained great working relationships throughout our history, which has allowed us to expedite the funding and implementation of projects over decades
- In late 2022, the RTC committed \$50 million in federal funding to a Regional Safety Program & partnering with the TxDOT Safety Taskforce to help #EndTheStreak

- Creating institutional barriers to implementation via rulemaking
- take excessively long, which delays implementation of needed projects (e.g., Regional 511 Agreement/need 6-year contract)
- Some agreements take 2 years



# **TxDOT State Infrastructure Bank**

Presented by Dallas Teston, TxDOT, SIB Program Lead



# Interest rate update



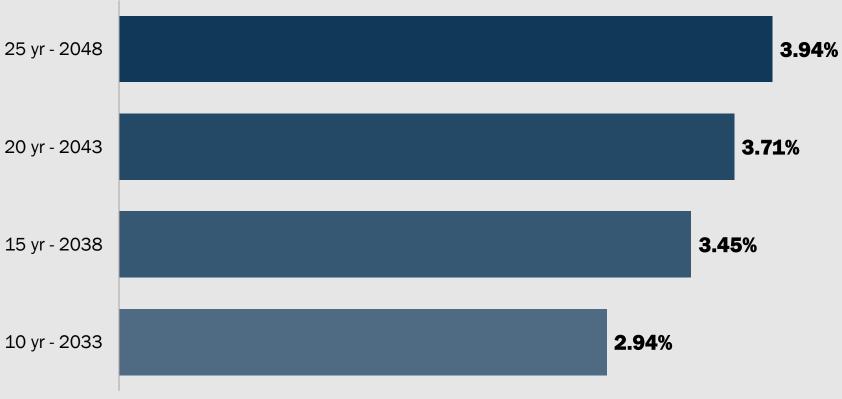
### **Interest rate**

### **Interest Rate**

- Rate set at the time of application
- Fixed rate through the life of the loan
- Municipal Market Data index (MMD)
- 2 main factors
  - Credit Rating
  - Term of the loan

### **Interest rate**





Market Rate Indications as of November 22, 2023. Rates change weekly, shown for illustrative purposes only.

New SIB rating scale					
Rating	1-10 Years	11+ Years			
AAA	AAA	AAA			
AA	AAA +5 bps	AAA +10 bps			
A	AAA +10 bps	AAA +20 bps			
BAA	AAA +15 bps	AAA +30 bps			
BBB-/Not Rated	AAA +20 bps	AAA +40 bps			

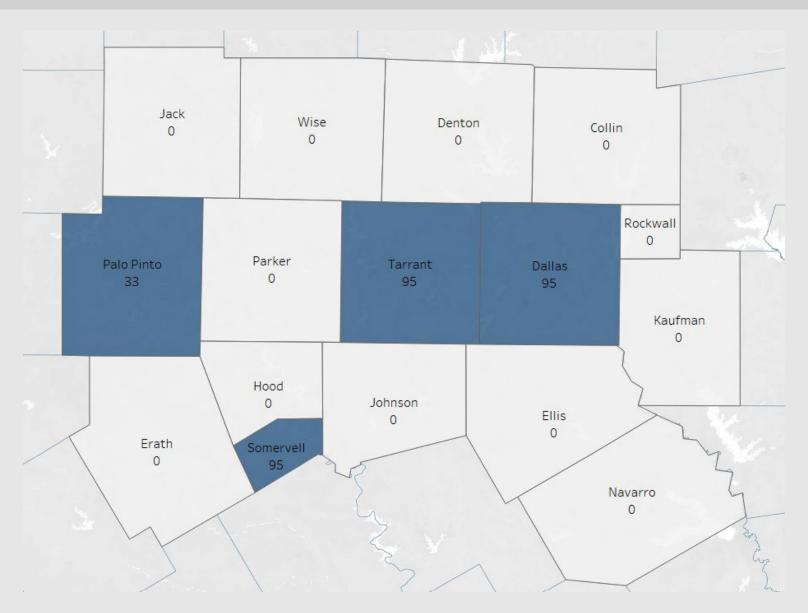


# **EDC** update



### **FY 2024 EDC**







# Interest rate example



#### **Interest rate**



### **How it works**

Final Rate	Final rate %
EDC Reduction (Based on FY 2024 list)	(EDC reduction)
Rate spread (Based on credit rating)	+ Rate spread
AAA rate (Based on requested term)	AAA rate %

#### **Interest rate**



### **How it works**

Final Rate	2.70%
EDC Reduction (Dallas County)	(.95)
Rate spread (A Rating)	+ .20
AAA rate (15 years)	3.45%



## SIB background



#### **SIB** facts





#### SIB Loans



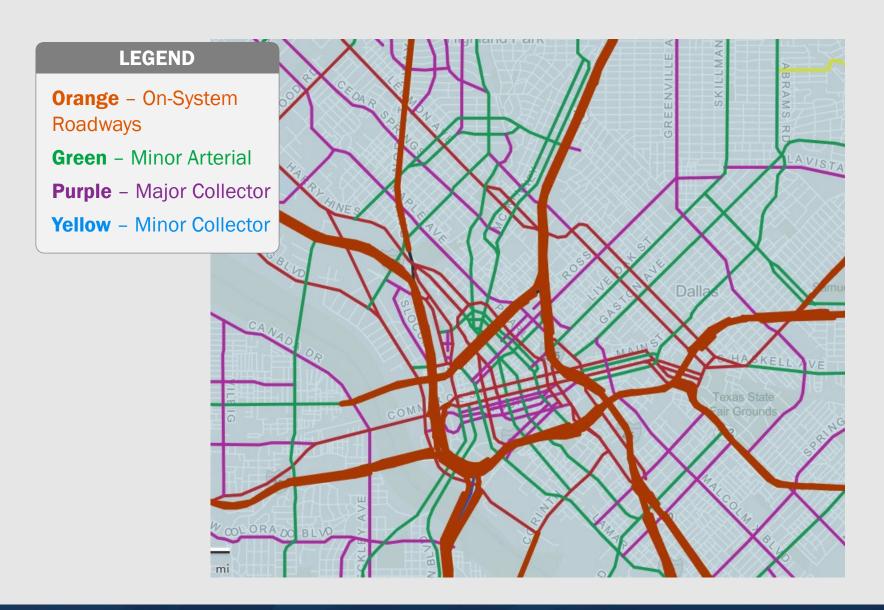
- Low-cost transportation financing.
- Revolving fund All repayments go back into the SIB.
- Non-federal dollars.

#### **Eligible Projects**

- Eligible under federal highway programs.
  - Must be functionally classified above a rural minor collector.
  - Must be in the STIP.
- On or off-system roadways can be eligible.
- Generally, projects eligible under Title 23.
  - Local Match
  - Transportation Alternative

#### **Eligibility example - City of Dallas**





#### **Borrowing from the Texas SIB**

#### **Low Cost of Borrowing**

- \$0 loan application
- \$0 closing costs
- \$0 loan handling
- Form of agreement
  - Direct loan agreement (authorized in TTC §222.0745)
  - Certificate of obligation
  - Bonds

#### **SIB** resources

Contact information:

Dallas Teston 512-463-9958 Dallas.Teston@txdot.gov

TXDOT.gov and search "State Infrastructure Bank"

- SIB Application
- General program information
  - Informational flyers
  - Sample resolutions for the local entity

# End of Ozone Season Recap

Surface Transportation Technical Committee
December 8, 2023

**Chris Klaus** 





# **Emission Monitoring**

### National Ambient Air Quality Standards (Criteria Pollutants)

Ozone

Lead

Carbon Monoxide

Nitrogen Dioxide

Particulate Matter

Sulfur Dioxide

Attainment

Nonattainment

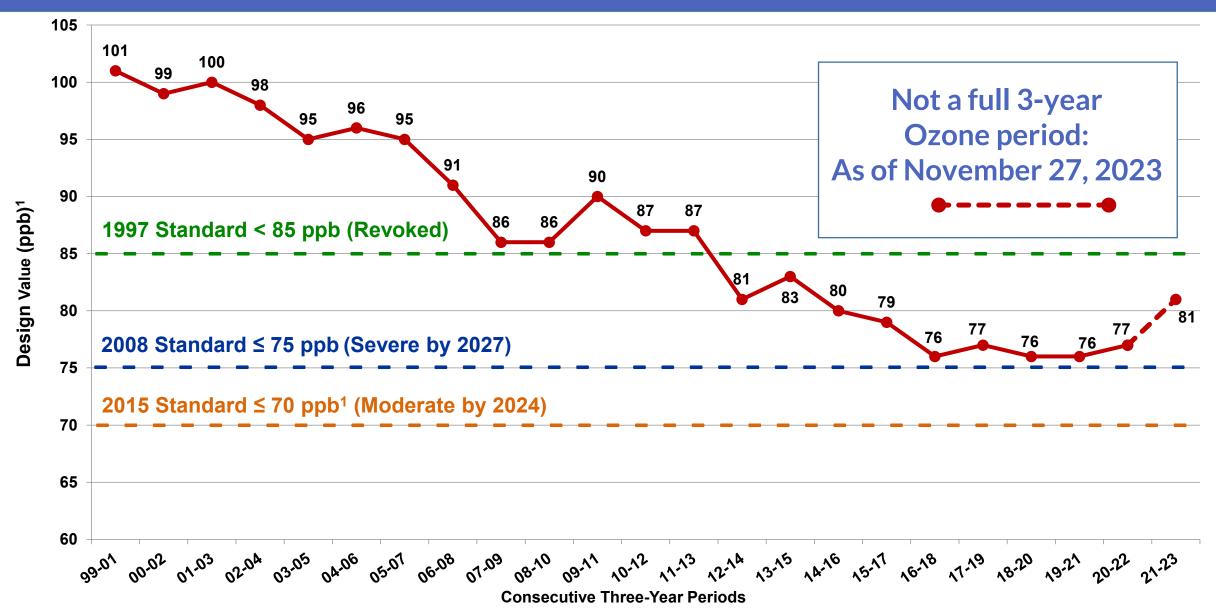
Partial Nonattainment In Navarro County Due to Aggregate Plant

### **Monitoring and Increased Regulations**

**Greenhouse Gas Emissions (i.e., Carbon Dioxide)** 

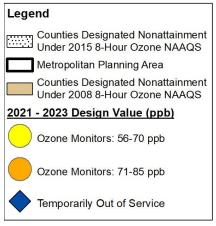


# Ozone Design Value Trends

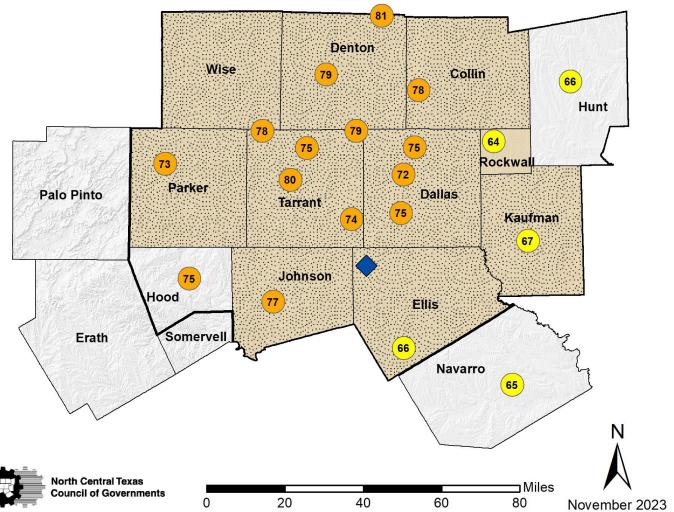


### Monitor Locations with Associated Fourth Highest Value

### As of November 27, 2023



Colors represent Air Quality Index Breakpoints

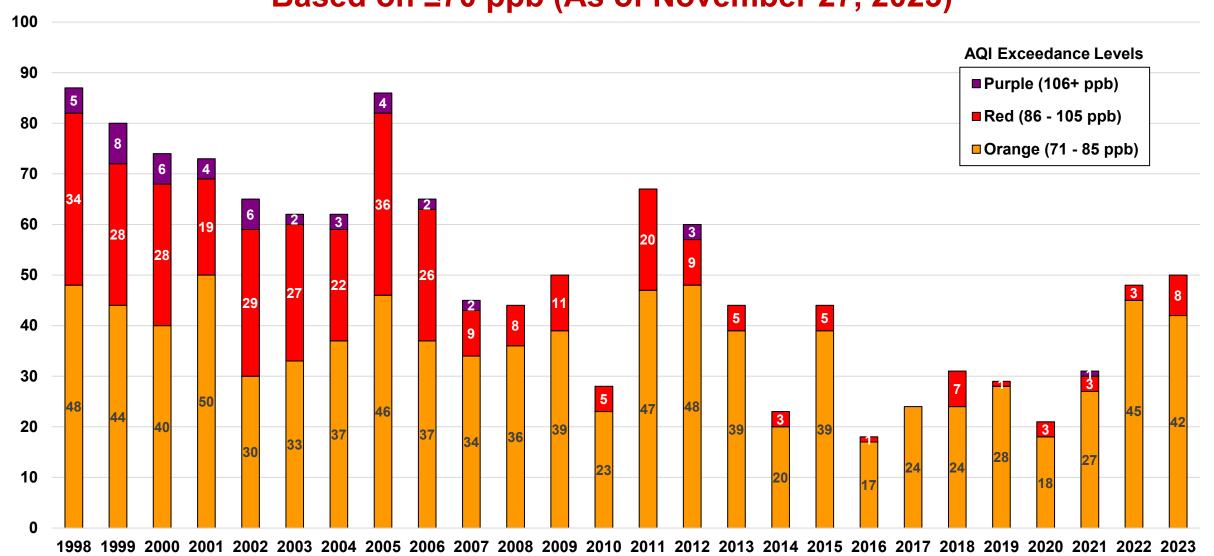


Prevailing Wind Direction During Summer Ozone Season



### 8-Hour Ozone National Ambient Air Quality Standards -**Exceedance Trends**

### Based on ≤70 ppb (As of November 27, 2023)



### Timeline and Milestones

2008 Ozone Standard (≤75ppb)

Attainment Date: No later than July 20, 2027

Attainment will be based on 2024-2026 Ozone Monitor Data

\*Severe designation = Section 185 fees if unable to reach attainment **EPA Ozone Classifications** 

Marginal (3 years to attain)

Moderate (6 years to attain)

Serious (9 years to attain)

Severe (15/17 years to attain)

Extreme (20 years to attain)

2015 Ozone Standard (≤70ppb)

Attainment Date: No later than August 3, 2024

Attainment will be based on 2021-2023 Ozone Monitor Data

Preliminary Ozone Season Monitor Value = 81ppb

Governor submitted voluntary reclassification to EPA (10-12-2023)

TCEQ indicated assistance need for emission reduction strategies



# 2023 Ozone Season (as of November 27, 2023)

	4 <sup>th</sup> Highe	st Value fo	or Season	Ozone	State Air Quality Plan Model Value -2023
Top 10 Monitors	2021	2022	2023	Season  Monitor  Value -2023	
Pilot Point	85	77	81	<mark>81</mark>	71
Fort Worth Northwest	76	80	84	80	70
Grapevine Fairway	75	78	84	79	72
Denton Airport South	81	78	78	79	70
Frisco	81	73	82	78	<mark>73</mark>
Eagle Mountain	76	77	81	78	72
Cleburne Airport	75	82	75	77	72
Keller	74	72	80	75	71
Dallas Executive	70	77	79	75	68

Source: Texas Commission on Environmental Quality

# NO<sub>x</sub> and VOC Emissions Apportionment

DFW 10-County Nonattainment Area Nitrogen Oxides (NOx) (tons/day)							
Sources	Analysis Years				0/ 51	0/ 61	
	2006	2017	2023	2026	% Change from 2006 to 2023	% Change from 2023 to 2026	
On-Road Mobile	284.27	130.77	72.30	60.20	-75%	-17%	
Non-Road Mobile	98.06	45.54	34.38	32.03	-65%	-7%	
Off-Road Mobile	32.92	25.24	23.59	24.59	-28%	4%	
Point (All sources)	57.55	54.80	42.34	42.00	-26%	-1%	
Oil & Gas (Production & Drill Rigs)	80.07	13.87	3.61	1.86	-95%	-48%	
Area	29.02	26.55	31.33	32.17	8%	3%	
Total	581.89	296.77	207.55	192.85	-64%	-7%	
DFW 10-County Nonattainment Area Volatile Organic Compounds (VOC) (tons/day)							
	Analysis Years				0/ 61	0/ 6	
Sources	2006	2017	2023	2026	% Change from 2006 to 2023	% Change from 2023 to 2026	
On-Road Mobile	116.50	64.91	38.74	33.27	-67%	-14%	
Non-Road Mobile	64.69	34.01	42.68	44.12	-34%	3%	
Off-Road Mobile	5.74	3.66	4.60	4.86	-20%	6%	
Point (All sources)	50.44	47.38	23.53	23.56	-53%	0%	
Oil & Gas (Production & Drill Rigs)	44.88	32.18	24.72	11.80	-45%	-52%	
Area	290.46	236.70	265.77	275.73	-9%	4%	
Total	572.71	418.84	400.04	393.34	-30%	-2%	

# Air Quality 2.0 - Path Forward

**Diesel Engines** 

**Idling** 

**Tampering** 

Locomotives

**Construction Equipment** 

**Vehicle Inspection Fraud** 

**Vehicle Miles Traveled** 

**Low Speeds** 

**Hard Accelerations** 

**Cold Starts** 

**Photochemical Modeling** 

**State and National Transport** 

Weather/Meteorology/High Temperatures

**Coal Power Plants** 

**Politics** 

**Energy Consumption** 



# Sample of Mobile Source Air Quality Initiatives



























































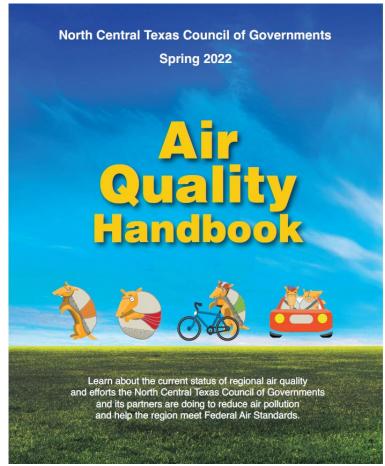




# **Air Quality Handbook**

### **Multilingual**

### **English**



https://nctcog.org/nctcg/media/Transportation/DocsMa ps/Quality/Air/AO2022printer Spring.pdf

#### **Spanish**



https://www.nctcog.org/nctcg/media/Transportation/Docs Maps/Quality/Air/AO2022SPANISH.pdf

#### Vietnamese



https://www.nctcog.org/getmedia/787b9fe9-94d9-4d76-9701-020876a06e61/AOHbkViet.pdf

### For More Information

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> cklaus@nctcog.org 817-695-9286

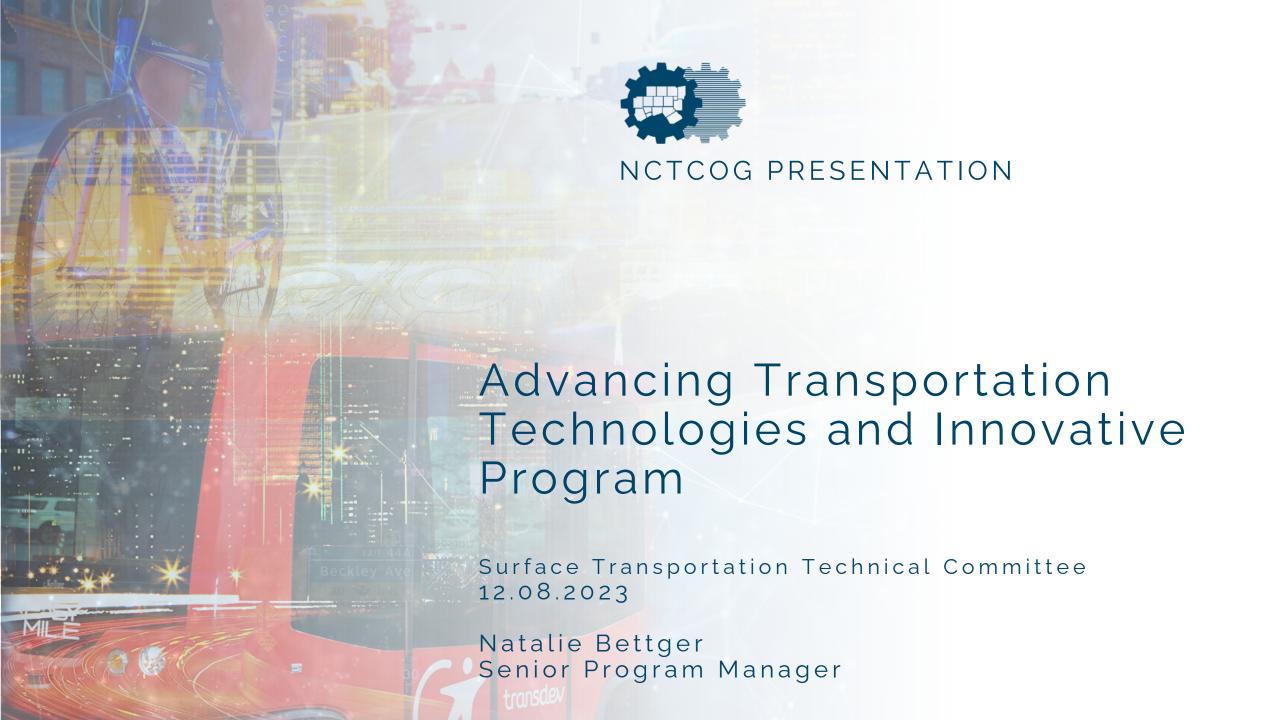
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817-704-2956

https://www.nctcog.org/trans/quality/air/ozone





# Advanced Transportation Technology and Innovation (ATTAIN) Program

- Continuation of Advanced Transportation and Congestion Management Technologies Deployment (ATCMTD) program
- \$120M ((\$60 million for FY 2023 and \$60 million for FY 2024). Rural Set-Aside of 20%.
- 5-10 awards up to \$12M apiece
- 20 percent local match required
- NOFO issued 11/24/23
- Applications due: 02/02/24



# ATTAIN Technologies

- Technologies to improve emergency evacuation and responses
- Integrated corridor management systems
- Electronic pricing, toll collection, and payment systems
- Technology for HOV toll lanes, cordon pricing, or congestion pricing
- Integration of transportation service payment systems
- Advanced mobility access, like shared-use mobility applications and systems to support services for elderly and disabled individuals
- Retrofitting dedicated short-range communications (DSRC) as part of pilot programs to cellular vehicle-to-everything (C-V2X) technology
- Integration of ITS with Smart Grid or other charging systems



# ATTAIN Program Goals

- Reduced fatalities and injuries and increased safety
- Reduced traffic delays/improved travel time reliability
- Reduced emissions
- Optimized multimodal system performance
- Improved access to transportation alternatives
- Integration of payment systems
- Integrated multimodal transportation information
- Transportation-related cost savings



### Administration's Priorities

- Safety
- Climate Change and Sustainability
- Equity
- Workforce Development, Job Quality, and Wealth Creation



### DOT Focus Areas

- State of Good Repair
- Integration of intelligent transportation system with Smart Grid and other energy distribution and charging systems.
- Advance Public Transportation Systems
- Freight (or Port) Community Systems
- ROUTES Initiative
- Complete Trip Program
- Data Availability



### 2023 ATTAIN Opportunity Request for Partners

### Applications to leverage Digital Roads to:

- Harness Data, Technology and Connectivity
- Enable Safer Trips
- Deliver Efficient and Faster Transportation
- Enhance Customer Service
- Integrate with Regional TSMO Data Hub

Issued 11/06/23

Applications due: 12/08/23



### Schedule

12/08/23: STTC Briefing / Information

12/14/23: RTC Briefing / Information

01/11/24: RTC Action

01/25/24: NCTCOG Executive Board Action

01/26/24: STTC Endorse RTC Action

NCTCOG letters of support requests due: 01/22/2024

Contact: Nicholas Allen



### Contacts



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