

# 2018 Public Participation Plan Update

**Surface Transportation Technical Committee**

**October 26, 2018**

**Kyle Roy**



North Central Texas  
Council of Governments

# Public Participation Plan

**Fulfills basic public involvement requirements established by federal law**

**Defines public involvement procedures and comment periods**

**Outlines communications and outreach strategies for informing the public**

**Describes measures for diversity and inclusiveness**

**Provides basis for evaluating outreach efforts**

**Last updated in February 2015**

# Legislative Basis

**Public participation requirements are outlined in laws and legislation regarding:**

Transportation funding

Civil rights

Environmental justice

Limited English proficiency

# Ways We Involve People

**Public meetings, online comment opportunities**

**Website, email and social media**

**Publications, newsletters**

**Community events**

**Speaking opportunities**

**Media relations**

**Advertising**



**@NCTCOGtrans**

# Proposed Revisions

- Revised stakeholder list to reflect new federal requirements**
- Increased weight given to local comments**
- Updated Language Assistance Plan with new demographics**
- Refined evaluation measures and reporting**
- More efficient public input opportunities**
- Increased emphasis on livestreaming**
- Outreach to and through community groups**

# Public Comment Policy and Update Summary

## **What's Staying the Same**

Length of comment periods

Meetings recorded and posted online

## **What's Changing**

No requirement for multiple public meetings

Meetings livestreamed whenever possible

Recommendations for UPWP modifications posted online without video summary

# Action Requested

**Approve the updates to the Public Participation Plan, which would take effect with RTC Action on Nov. 8**

# Schedule

**August 9, 2018**

**RTC Information**

**August 24, 2018**

**STTC Information**

**September 10, 11, 19, 2018**

**Public meetings**

**September 10, 2018**

**Public comment period begins**

**October 11, 2018**

**RTC Information**

**October 24, 2018**

**Public comment period ends**

**October 26, 2018**

**STTC Action**

**November 8, 2018**

**RTC Action**



# Contacts

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[www.nctcog.org/trans/involve](http://www.nctcog.org/trans/involve)



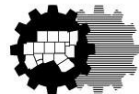
**@NCTCOGtrans**

# Performance Measures Target Setting

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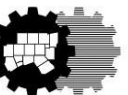
**Surface Transportation Technical  
Committee**

October 26, 2018



# Federal Measures Target Status

Complete	Rulemaking	Number of Measures	MPO Target Setting Deadline	Reporting Period	Reporting Schedule
✓	Transit Asset Management	4	12/27/2017	Annually	Annually
✓	Safety Performance	5	2/27/2018	Annually	Annually
	Pavement and Bridge	6	11/15/2018	Four-Year Performance Periods	Biennially
	System Performance	6	11/15/2018	Four-Year Performance Periods	Biennially



# Federal Performance Measures to be Set by RTC in November

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## **Pavement and Bridge**

**Interstate Pavement – Good**

**Interstate Pavement – Poor**

**Non-Interstate Pavement – Good**

**Non-Interstate Pavement – Poor**

**Bridge Condition – Good**

**Bridge Condition – Poor**

## **System Performance**

**Interstate Reliability**

**Non-Interstate NHS Reliability**

**Truck Travel Time Reliability Index**

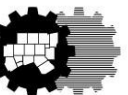
**Peak Hour Excessive Delay**

**Percent Non-SOV Mode Share**

**On-Road Mobile Source Emissions Reduction**

**Nitrogen Oxide (NO<sub>x</sub>)**

**Volatile Organic Compound (VOC)**





# Proposed RTC Position on Pavement Condition Targets

## Good Condition

NCTCOG Supports TxDOT Statewide 2022 “Good Pavement Condition” Targets for National Highway System Facilities

## Poor Condition

NCTCOG Supports TxDOT Statewide 2022 “Poor Pavement Condition” Targets for National Highway System Facilities

Collaboration with TxDOT to Plan and Program Projects Contributing Toward Accomplishment of Pavement Goals will also Include the Following Action: NCTCOG will Work with Local Governments to Focus on Improvement of National Highway System Off-System Arterials in Poor Condition





# Roadway Pavement Condition Targets

Roadway Categories	Total Network	2018 Baseline	2022 Target
<b>STATE of TEXAS</b>			
<b>Good Pavement Condition</b>			
Interstate National Highway System (% NHS lane miles)	19.19%	66.80%	66.40%
Non-Interstate National Highway System (% NHS lane miles)	80.81%	54.40%	52.30%
<b>Poor Pavement Condition</b>			
Interstate National Highway System (% NHS lane miles)	19.19%	0.30%	0.30%
Non-Interstate National Highway System (% NHS lane miles)	80.81%	13.80%	14.30%
<b>North Central Texas Region</b>			
Interstates (on-system) <sup>1</sup>	25.90% <sup>2</sup>	5.81% <sup>3</sup>	7.99% <sup>3</sup>
Non-Interstate Freeway (on-system) <sup>1</sup>	13.40% <sup>2</sup>	6.76% <sup>3</sup>	8.93% <sup>3</sup>
Toll Roads (off-system)	6.70% <sup>2</sup>	8.43% <sup>3</sup>	9.32% <sup>3</sup>
Arterials (on-system) <sup>1</sup>	30.30% <sup>2</sup>	18.52% <sup>3</sup>	18.39% <sup>3</sup>
Arterials (off-system)	23.80% <sup>2</sup>	73.66% <sup>3</sup>	69.82% <sup>3</sup>

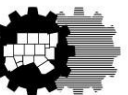
<sup>1</sup> On-system refers to the TxDOT System

<sup>2</sup> Mobility 2045 Plan – 2018 Baseline Network Lane-Miles

<sup>3</sup> Based on 5-year moving average



Proposed Regional Targets



# Proposed RTC Bridge Condition Targets

Support TxDOT Statewide 2022 “Good/Poor Condition” Targets for National Highway System Bridges

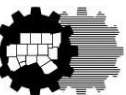
Collaborate with TxDOT to Plan and Program Projects Contributing Toward Accomplishment of Bridge Goals and Include the Following Action: NCTCOG will Focus on Expedited Programming to Improve National Highway System Bridges in Poor Condition

State of Texas		
Bridges*	2018 Baseline	2022 Target
<b>Good Bridge Condition</b>		
All National Highway System Facilities (% bridge deck)	50.63%	50.42%
<b>Poor Bridge Condition</b>		
All National Highway System Facilities (% bridge deck)	0.88%	0.80%

\*Based on total deck area



Proposed Regional Targets





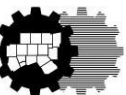
# Proposed RTC System Performance Targets

Performance Measure		Historical Trend	Baseline (2016/2017)	2020 Target	2022 Target	Target Strategy
Interstate Reliability (% Person Miles Travelled)		Improving	77.3%	78.6%	79.5%	Targets Set to Improve Over Trend
Non-Interstate NHS Reliability (% Person Miles Travelled)		Worsening	71.1%	N/A	71.1%	
Truck Travel Time Reliability Index		Improving	1.74	1.71	1.66	
Peak Hour Excessive Delay (Hours per Capita)*		Worsening	15.5	N/A	16.0	
Percent Non-SOV Mode Share (% Commuter Trips)*		Improving	19.5%	19.9%	20.2%	
On-Road Mobile Source Emissions Reductions (Cumulative)	NOx (kg/day)	Improving	2,410.80	2,892.96	5,062.68	
	VOC (kg/day)	Improving	499.72	599.67	1,079.40	

\*Regional Transportation Council and TxDOT Must Agree on a Single Regional Target



Proposed Regional Targets



# Proposed Regional Transportation Council Action

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Agree to Support TxDOT Statewide Targets as Shown for National Highway System Pavement and Bridge Conditions with Focus on:

The Improvement of Regional National Highway System Off-System Arterial Pavements

National Highway System Bridges in Poor Condition

Adopt Regional Targets as Shown for:

Interstate Reliability

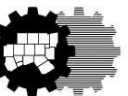
Non-Interstate Reliability

Truck Travel Time Reliability Index

Peak Hour Excessive Delay

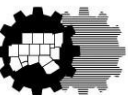
Percent Non-SOV Mode Share

Emissions Reductions



# Schedule

July 27	STTC Information Item – Performance Measures and Targets
August 9	RTC Information Item – Performance Measures and Targets
August 24	STTC Workshop – Performance Measures and Targets
September 13	RTC Information Item
September 28	STTC Information Item – Draft Targets
October 8, 15, 18	Public Meetings
October 11	RTC Information Item – Draft Targets
<b>October 26</b>	<b>STTC Action Item – Recommend Approval of Final Targets</b>
November 8	RTC Action Item – Approval of Final Targets
November 15	Target Adoption Deadline



# Questions

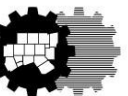
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# METROPOLITAN PLANNING ORGANIZATION (MPO) MILESTONE POLICY UPDATE

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Surface Transportation Technical Committee

October 26, 2018

# Background

- The Metropolitan Planning Organization (MPO) Milestone Policy was adopted by the Regional Transportation Council (RTC) in June 2015.
- Staff identified projects that were funded 10 or more years prior to the policy being approved and had not gone to construction.
- New estimated start dates for projects to go to construction by were established by each implementing agency.
- In April 2016, the RTC approved a policy to give agencies one additional fiscal year from their proposed construction start date to advance projects (i.e., A project with an estimated start date of June 2017 (FY 2017) would have until the end of FY 2018 to start construction).
- The policy stipulates that if a project does not go to construction by the established deadline, the project's funding will be removed.

# Project Monitoring Efforts

- Projects included on the 2016 Milestone List have been monitored to ensure timely implementation has occurred.
  - Reminder letters were sent to all agencies with a project on the list in December 2016
  - Staff highlighted the projects and their deadlines during 2019-2022 Transportation Improvement Program (TIP) Development process
  - Letters have been sent to agencies with projects that are being proposed for cancellation notifying them of the plan of action

# Outcomes to Date

- Of the 57 projects on the initial list:
  - 4 projects were canceled initially based on input from the implementing agencies
  - 2 projects were canceled as a result of being on the Federal Highway Administration (FHWA) 10-Year Preliminary Engineering Audit list
  - 1 project was canceled and the funding moved to another project
  - 36 projects have let for construction on time or have been completed
  - 5 projects did not meet their deadline and are slated for cancellation based on the policy
  - 9 projects remain and must let before the end of FY 2019 (September 30, 2019)



# Projects Proposed for Cancellation

Agency	Facility/Limits	Scope	Funding to be Removed
Dallas County	Camp Wisdom Road from Carrier Parkway to FM 1382	Widen 2 to 4 lane divided	\$7,200,000
TxDOT Dallas	Northwest Highway (Spur 244) at Jupiter	Traffic signal and pedestrian improvements	\$359,331
TxDOT Dallas	Northwest Highway (Spur 244) at Plano Road	Traffic signal and pedestrian improvements	\$522,500
TxDOT Dallas	SH 78 from IH 635 to Forest Lane	Traffic signals and intersection improvements	\$3,400,000
City of Denton	McKinney Street (Old FM 426) from 1.4 miles west of SL 288 to 1.1 miles east of SL 288	Widen 2 lane roadway to 4 lane divided urban	\$17,867,303
<b>TOTAL:</b>			<b>\$29,349,134</b>

# Issues to Consider

- All agencies reset and established their own schedule in 2016 (i.e., neither staff or the RTC set their schedule)
- The RTC approved an additional one year extension to the revised schedule
- Some projects were canceled after implementing agency staff determined that the projects were no longer warranted
- Projects were selected in 1992 (26 years ago), 1999 (19 years ago), and 2005 (13 years ago).
- 36 other projects were prioritized by the implementing agencies and successfully met the deadline
- Agencies with non-compliant projects still think their projects are needed
- Each of the five project schedules have been delayed further in the last 12 months

# Process for Time Extension Requests

- Allow these five non-compliant projects to be presented to an RTC “subcommittee” made up of representatives from the County and City in question
- If RTC members agree project is still important and feasible, they will take responsibility for the project and schedule before the rest of the RTC
  - A final schedule must be established, adhered to, and approved by the implementing agencies (all), NCTCOG staff, and the RTC
- If the RTC as a whole concurs with an extension (i.e., December 2018 RTC meeting), the project status will be reported to the RTC monthly until letting, then regularly after construction begins
- If the implementing agency of a non-compliant project selects this option, there is no other recourse in the future and the RTC is not paying for additional costs.

# Action Requested

- Options:
  - Option 1 – Recommend RTC approval of removing funding from projects that did not meet the deadline, or
  - Option 2 – Recommend RTC approval for impacted RTC members to request a time extension
- Direct staff to continue monitoring projects that must let by the end of FY 2019
- Direct staff to amend the TIP to incorporate project cancellations
- Direct staff to initiate a new round of 10-Year Milestone projects in 2019

# Questions?

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# Dallas-Fort Worth Clean Cities Fleet Annual Survey and Fleet Recognition Results



Bailey Muller, Senior Air Quality Planner  
Surface Transportation Technical Committee  
October 26, 2018





# Annual Report Categories



Emissions Reduction Measures



Fuel Reduction Measures



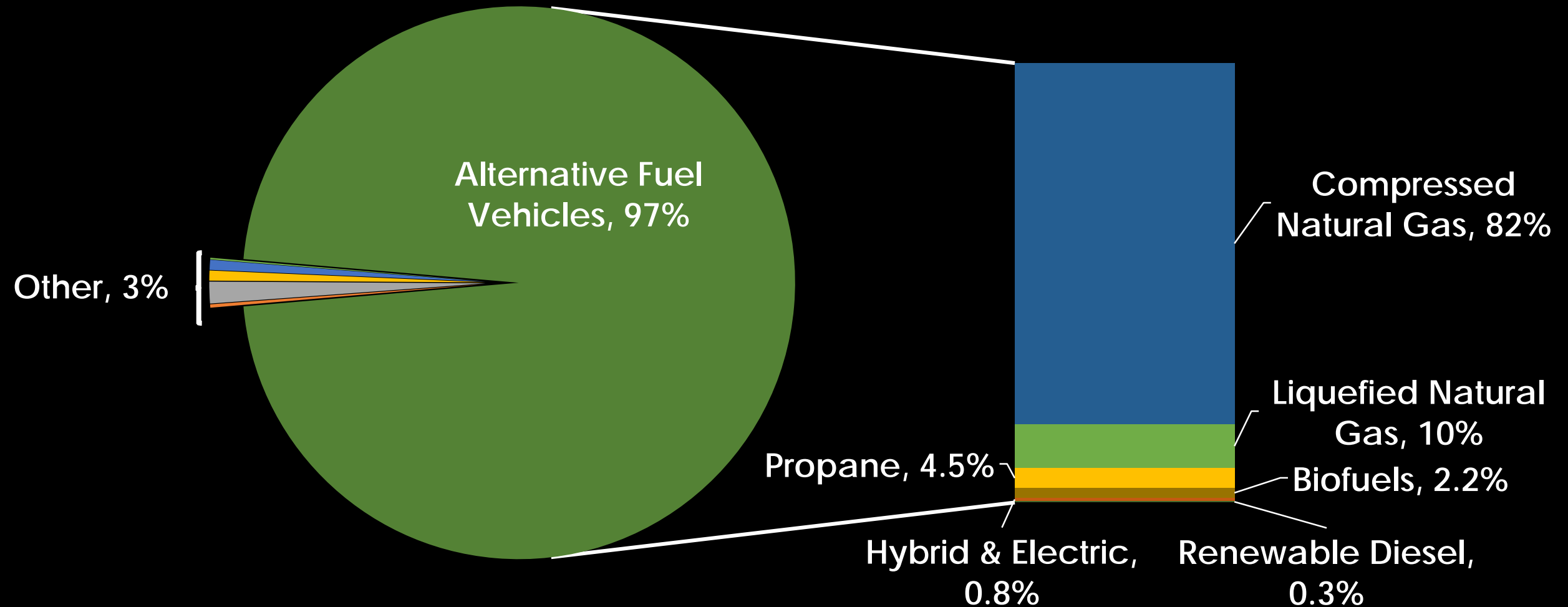
Partnership with DFW Clean Cities



Outreach and Awareness of Air Quality Goals

# 2017 Gallons of Gasoline Equivalent Reduced by Strategy and Fuel Type

*23.27 Million Gallons*

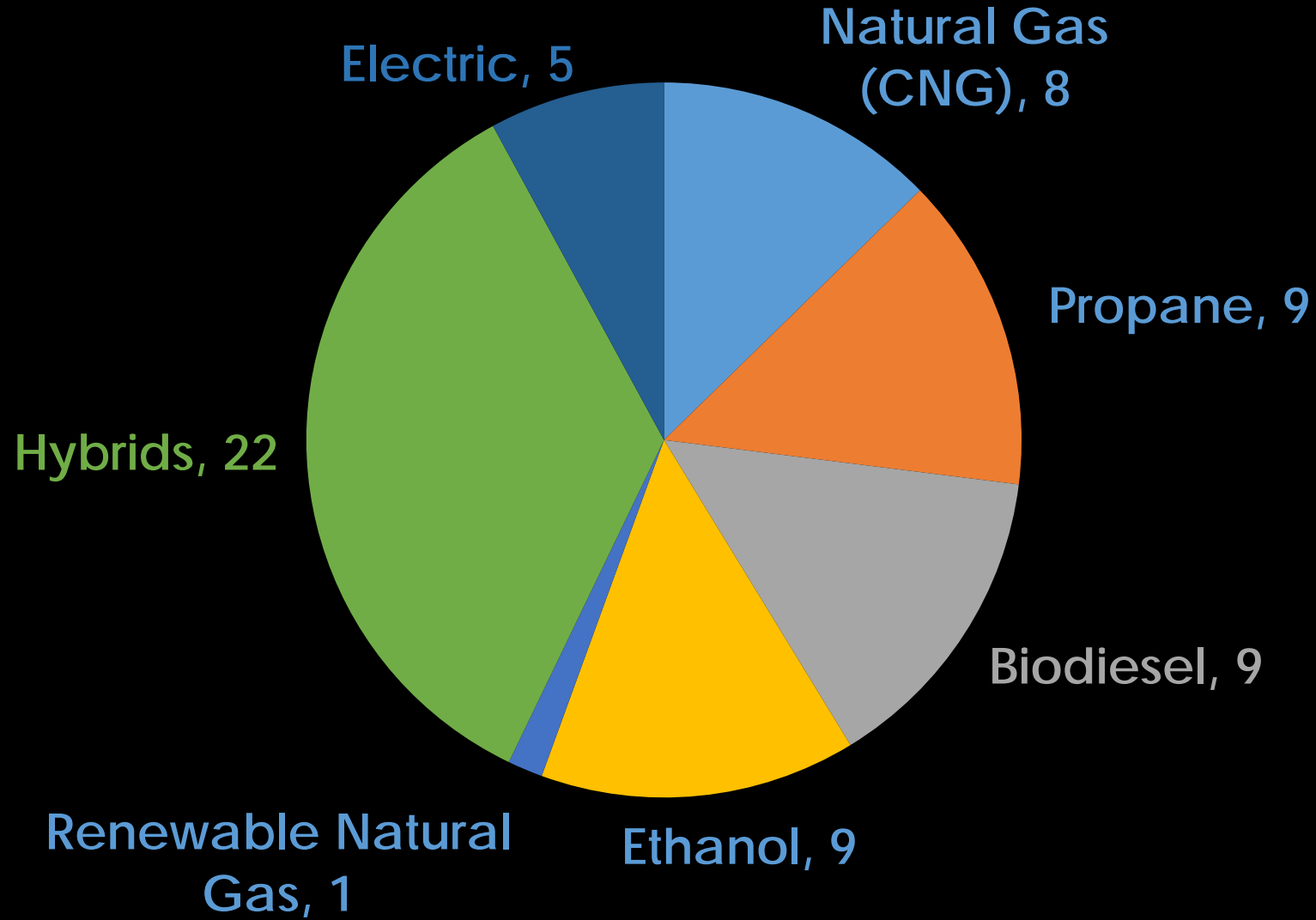


Other- Idle Reduction, Electric, Off-Road, Vehicle Miles Traveled



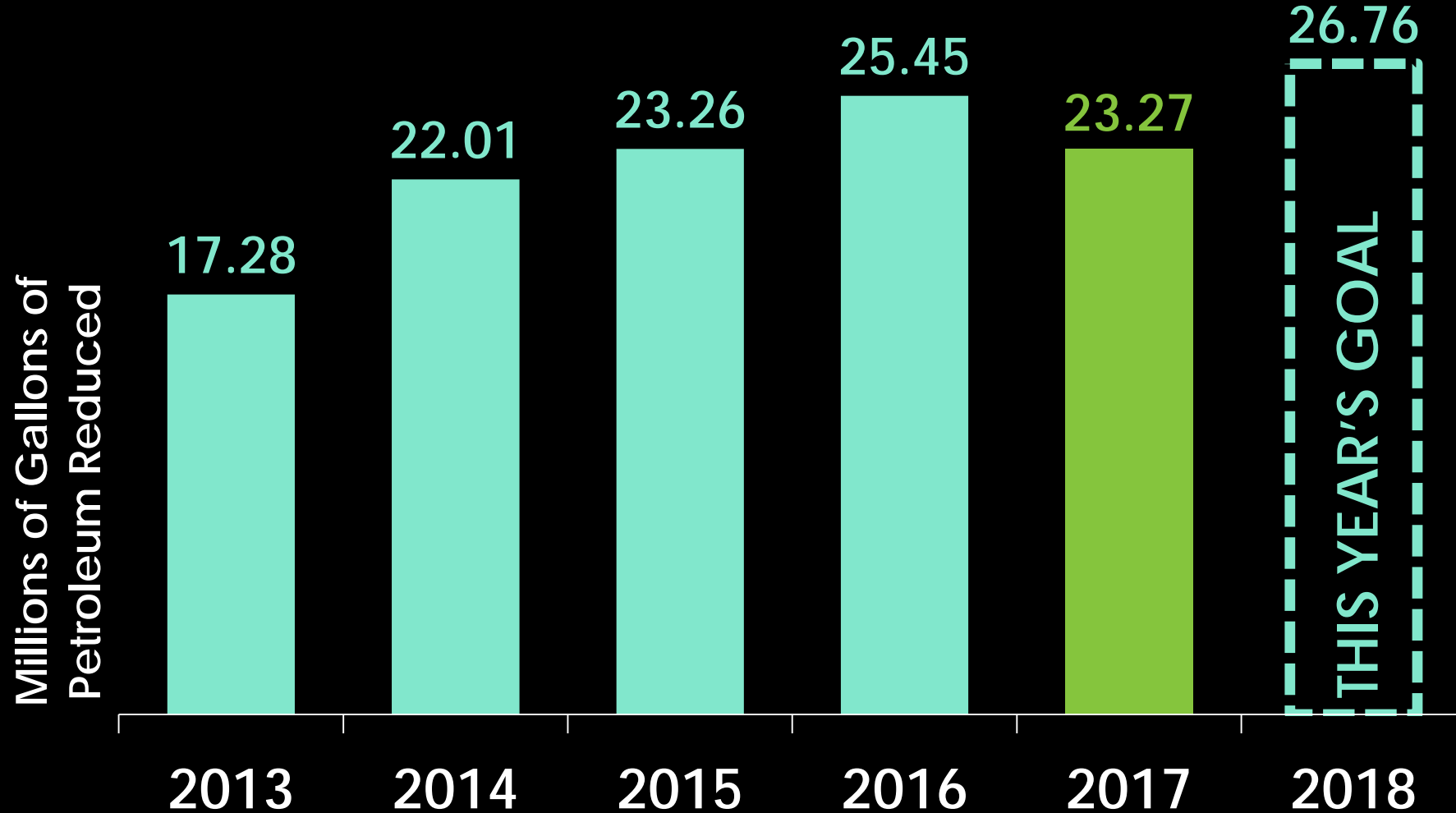
# FLEETS USING ALTERNATIVE FUELS

33 REPORTED FLEETS



# DFW Clean Cities Annual Report Results

Fleet Surveys Received: 33



Equal to ~391 Tons of NO<sub>x</sub> Avoided in 2017

# 2018 DFW Clean Cities Fleet Recognition Awards

## **BRONZE FLEETS**

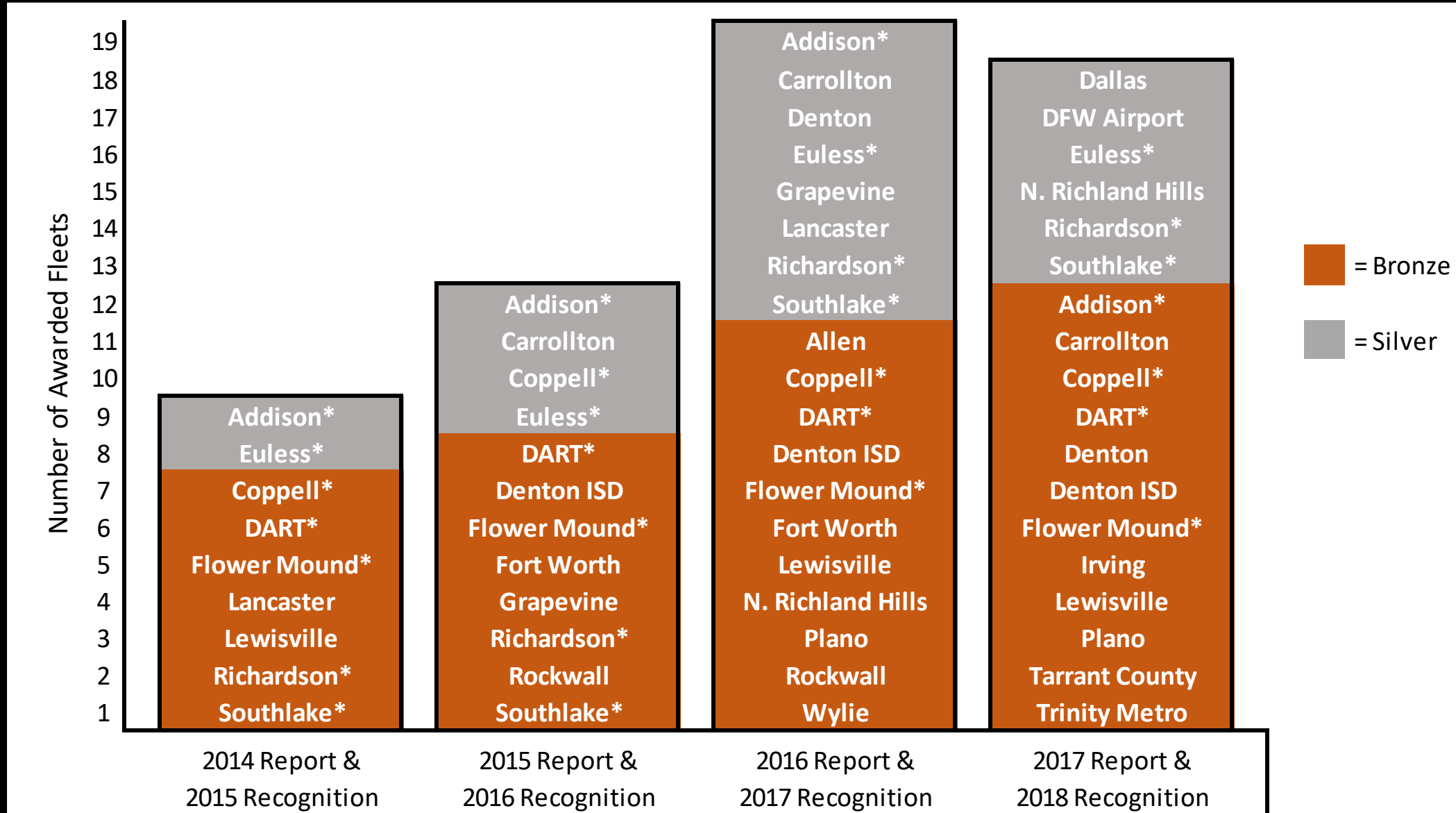
City of Carrollton  
City of Coppell  
City of Denton  
City of Irving  
City of Lewisville  
City of Plano  
Dallas Area Rapid Transit  
Denton ISD  
Tarrant County  
Town of Addison  
Town of Flower Mound  
Trinity Metro

## **SILVER FLEETS**

City of Dallas  
City of Euless  
City of North Richland Hills  
City of Richardson  
City of Southlake  
DFW Airport

*\*2018 Recognition Based on Reports of 2017 Fleet Activity*

# DFW Clean Cities Fleet Recognition Awards



\*Recognized all 4 years



# Congrats to All Awardees!



# Contacts

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**Program Manager**

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[cleancities@nctcog.org](mailto:cleancities@nctcog.org)



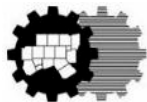
**Dallas-Fort Worth  
CLEAN CITIES**

# **2017-2018 CMAQ/STBG\* FUNDING: STRATEGIC PARTNERSHIPS ROUND 3, INTERSECTION IMPROVEMENTS, AND METROPOLITAN TRANSPORTATION PLAN (MTP) POLICY BUNDLE TRANSPORTATION DEVELOPMENT CREDIT (TDC) PROGRAM**

Surface Transportation Technical Committee

October 26, 2018

\* Congestion Mitigation and Air Quality Improvement Program/  
Surface Transportation Block Grant



North Central Texas  
Council of Governments  
Transportation Department



# CMAQ/STBG FUNDING PROGRAMS

## STATUS

## PROGRAM

- Federal/Local Funding Exchanges
- Automated Vehicle Program
  - Round 1    Round 2
- Strategic Partnerships**
  - Round 1    Round 2    Round 3/Intersection Improvements/MTP Policy Bundle
- Planning and Other Studies
- 10-Year Plan/Proposition 1 Adjustments
- Sustainable Development Phase 4: Turnback Program, Context Sensitive, Transit Oriented Development (TOD) Projects
- Transit Program
- Assessment Policy Programs/Projects
- Local Bond Program Partnerships
- Safety, Innovative Construction, and Emergency Projects
- Management & Operations (M&O), NCTCOG-Implemented, & Regional/Air Quality Programs

= Project Selection Completed    = Program Partially Completed    = Pending STTC/RTC Approval



# STRATEGIC PARTNERSHIPS ROUND 3

- Purpose
  - Coordinate and develop partnerships with local agencies and the Texas Department of Transportation (TxDOT) to help fund high-priority projects, leverage non-Regional Transportation Council (RTC) funds, and advance project development
- Eligibility criteria considered:
  - Local partners are contributing more than the standard 20% match (overmatching the federal funds or paying for design, right-of-way, etc.),
  - Project has multiple non-RTC stakeholders/contributors, or
  - Project is of strategic importance within/to the region

# INTERSECTION IMPROVEMENTS

- Purpose
  - Coordinate with local agencies and TxDOT to identify intersections that need safety and traffic flow improvements
- Selection criteria considered:
  - Project addresses a safety issue (history of vehicle crashes)
  - Air quality benefits
  - Cost effectiveness
  - Current volumes
  - Level of service

# MTP POLICY BUNDLE TDC PROGRAM

- Purpose
  - Provide agencies with an opportunity to use MTP Policy Bundle TDCs on federally eligible local projects
- Eligibility criteria considered:
  - New project
  - Project must be eligible to receive federal funds under Title 23 (Highway Program) or Title 49 (Transit Program) of United States Code
- Selection criteria considered (more details can be found in the Committee mail out):
  - Current Volumes
  - Air Quality benefits the project yields
  - Cost effectiveness
  - Are additional lanes warranted?
  - Level of Service
  - Project addresses a safety issue (history of vehicle crashes)

# PROJECT REVIEW PROCESS

- Projects were divided into project types and evaluated against each other.
- Project types:
  - Roadways
  - Intersections
  - Bicycle/Pedestrian
  - Complete Streets/Context-Sensitive Design
  - Intelligent Transportation Systems (ITS)/Traffic Signals
  - Strategic Partnerships

# PROPOSED FUNDING TARGETS

PROJECT CATEGORY	PROPOSED TARGET <sup>1</sup>
Roadways	\$50,000,000
Intersections	\$15,000,000
Bicycle/Pedestrian	\$20,000,000
Complete Streets	\$35,000,000
Strategic Partnerships	\$50,000,000
ITS/Traffic Signals	\$1,000,000
<b>TOTAL</b>	<b>\$171,000,000<sup>2</sup></b>

1: Federal amounts only

2: With these targets, there is still \$191M of CMAQ and \$84M of STBG funds remaining to be programmed in FY 2019-2023

# EAST/WEST FUNDING DISTRIBUTION

<b>CATEGORY</b>	<b>EASTERN SUBREGION</b>	<b>WESTERN SUBREGION</b>
<b>CMAQ</b>	<b>\$48,816,914</b>	<b>\$21,371,318</b>
<b>Funding Share</b>	<b>69.5%</b>	<b>30.5%</b>

<b>CATEGORY</b>	<b>EASTERN SUBREGION</b>	<b>WESTERN SUBREGION</b>
<b>STBG</b>	<b>\$60,745,800</b>	<b>\$40,264,359</b>
<b>Funding Share</b>	<b>60.1%</b>	<b>39.9%</b>

Staff also proposes to fund a project in North Richland Hills with Regional Toll Revenue (RTR) funds in order to help balance the overall East/West Equity; Staff proposes to move Dallas County RTR funds to Tarrant County

# SUMMARY OF PROPOSED FUNDING RECOMMENDATION

<b>PROJECT TYPE</b>	<b>PROPOSED CMAQ FUNDS</b>	<b>PROPOSED STBG FUNDS</b>	<b>PROPOSED RTR FUNDS</b>	<b>PROPOSED NON-RTC FUNDING</b>	<b>TDCs</b>	<b>TOTAL</b>
Roadways	\$4,805,700	\$47,675,700	\$0	\$13,031,490	4,295,000	<b>\$65,512,890</b>
Intersections	\$16,038,464	\$0	\$0	\$4,373,566	104,200	<b>\$20,412,030</b>
Bicycle/Pedestrian	\$18,495,725	\$0	\$0	\$0	3,699,145	<b>\$18,495,725</b>
Complete Streets	\$23,438,155	\$12,633,659	\$0	\$100,000	7,214,363	<b>\$36,171,814</b>
Strategic Partnerships	\$6,190,188	\$40,700,800	\$5,804,590	\$56,126,650	0	<b>\$108,822,228</b>
ITS/Traffic Signals	\$1,220,000	\$0	\$0	\$0	244,000	<b>\$1,220,000</b>
<b>TOTAL</b>	<b>\$70,188,232</b>	<b>\$101,010,159</b>	<b>\$5,804,590</b>	<b>\$73,631,706</b>	<b>15,556,708</b>	<b>\$250,634,687</b>

# APPROVAL TIMELINE

<b>MEETING/TASK</b>	<b>DATE</b>
STTC Information	October 26, 2018
RTC Information	November 8, 2018
Public Meetings	November 2018
STTC Action	December 7, 2018
RTC Action	December 13, 2018

Please send any questions or comments to staff early in the timeline, so they can be resolved in a timely manner.



# QUESTIONS?

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# 511DFW and EcoTrafIX

Surface Transportation Technical Committee

Marian Thompson, P.E.

October 26, 2018



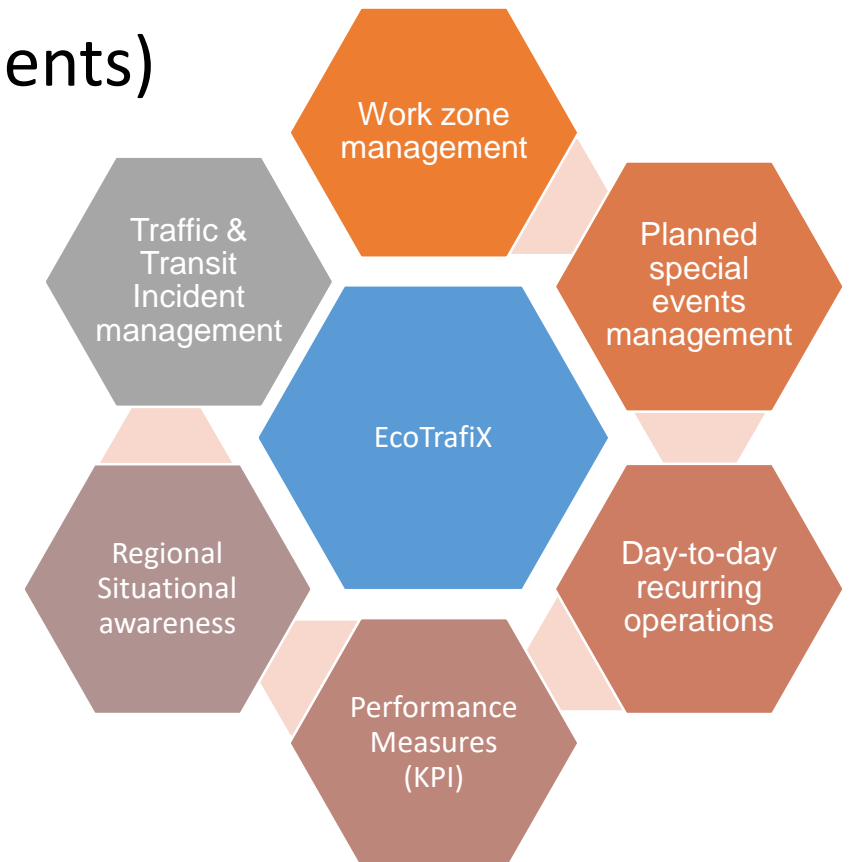
North Central Texas  
Council of Governments

# 511DFW and EcoTrafIX



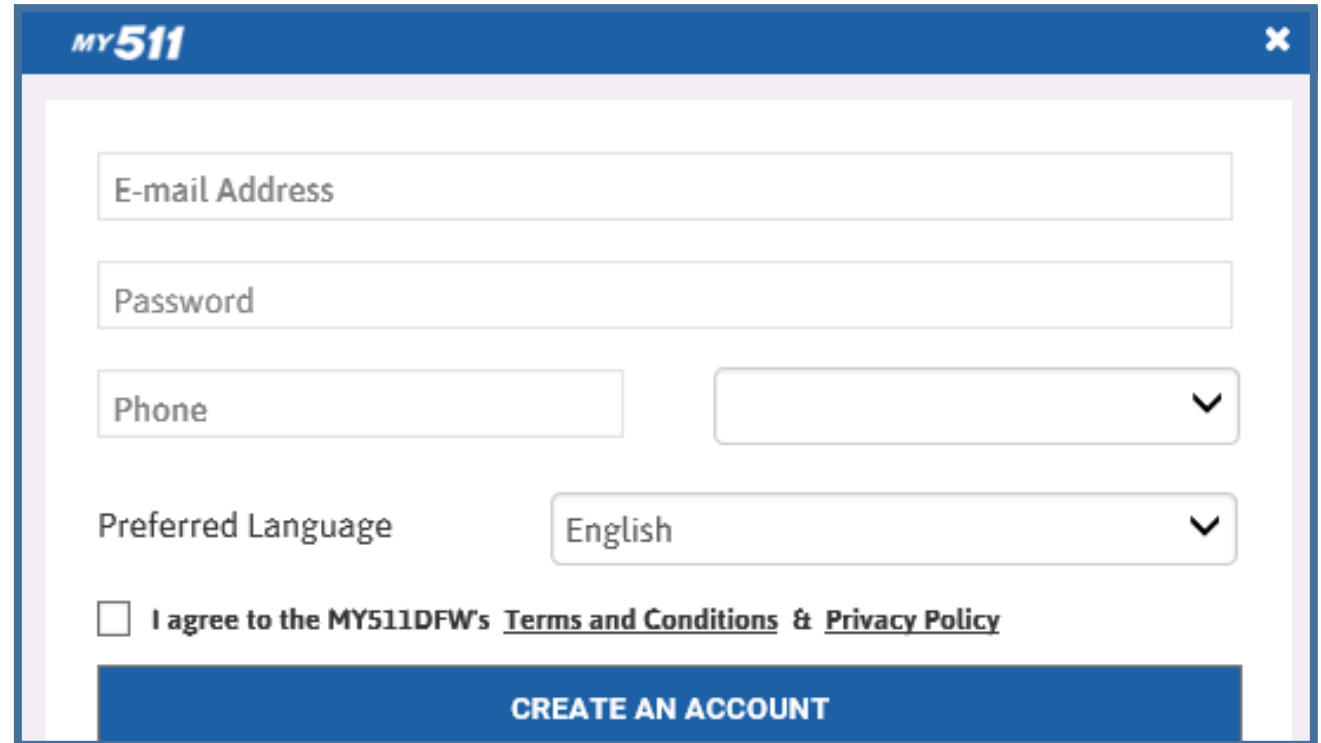
*BEGIN YOUR TRIP HERE.*

- Regional Traveler Information System
- Integrate Data from Various Sources
  - TxDOT (Speeds, DMS, CCTV images, Incidents)
  - Cities
  - Waze (bidirectional, filtered, unfiltered)
  - HERE Speed, Travel Time, Trip Planner
  - Others
- Transit Data and Trip Planner



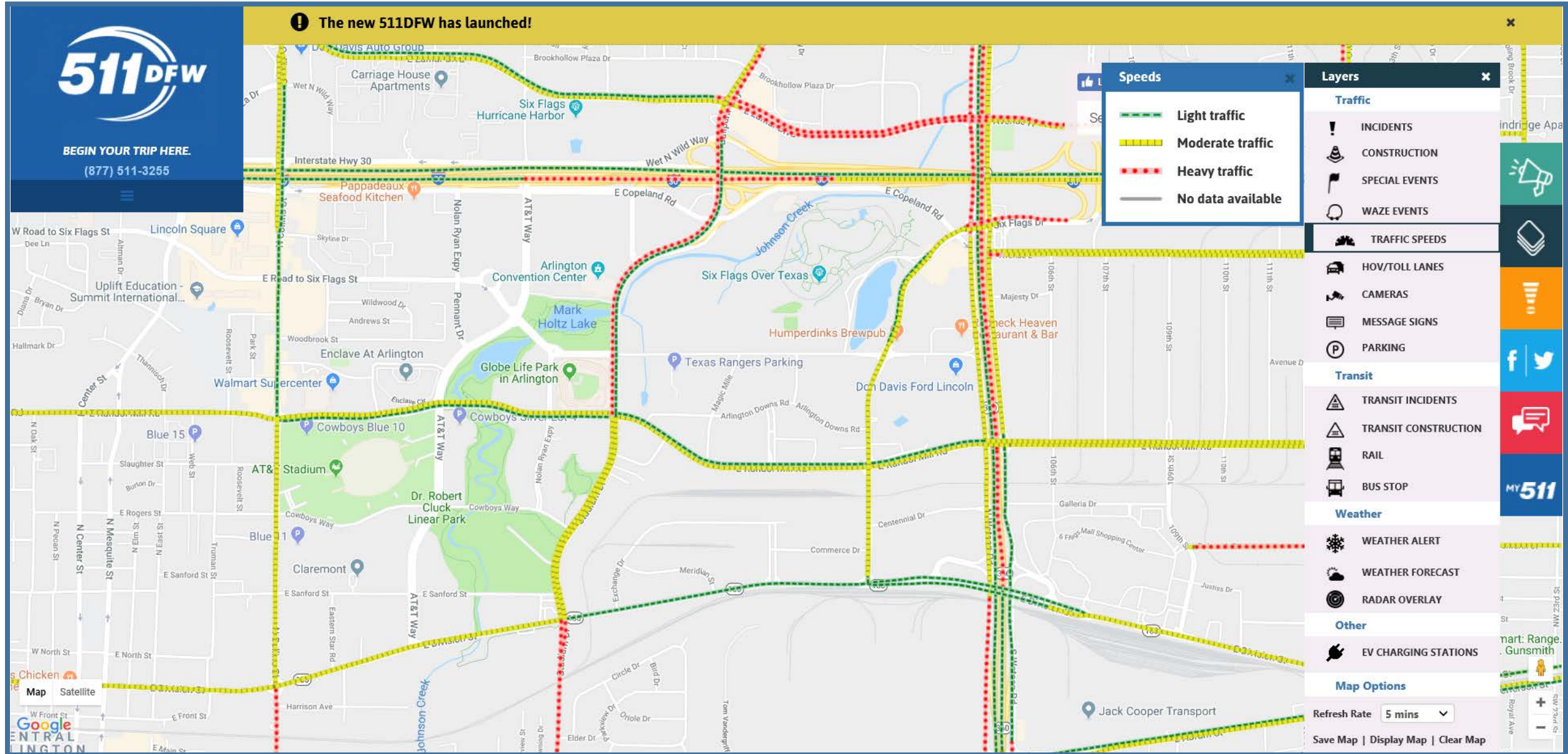
# 511DFW and EcoTrafiX Components

- Website: 511DFW.org
- **My511 - Personalized Website**
- Dial 511 - Interactive Voice Response
- Mobile App
- All of the Above in Spanish
- Information Exchange Network
- Data Archive
- Performance Measures
- Open API



The screenshot shows a web form titled "my511" in a blue header bar. The form contains several input fields: "E-mail Address", "Password", "Phone", and "Preferred Language". The "Preferred Language" dropdown is set to "English". Below the fields is a checkbox for "I agree to the MY511DFW's [Terms and Conditions](#) & [Privacy Policy](#)". At the bottom of the form is a blue button labeled "CREATE AN ACCOUNT".

# 511DFW Freeway and Arterial Speed Display





# 511DFW Incidents Display



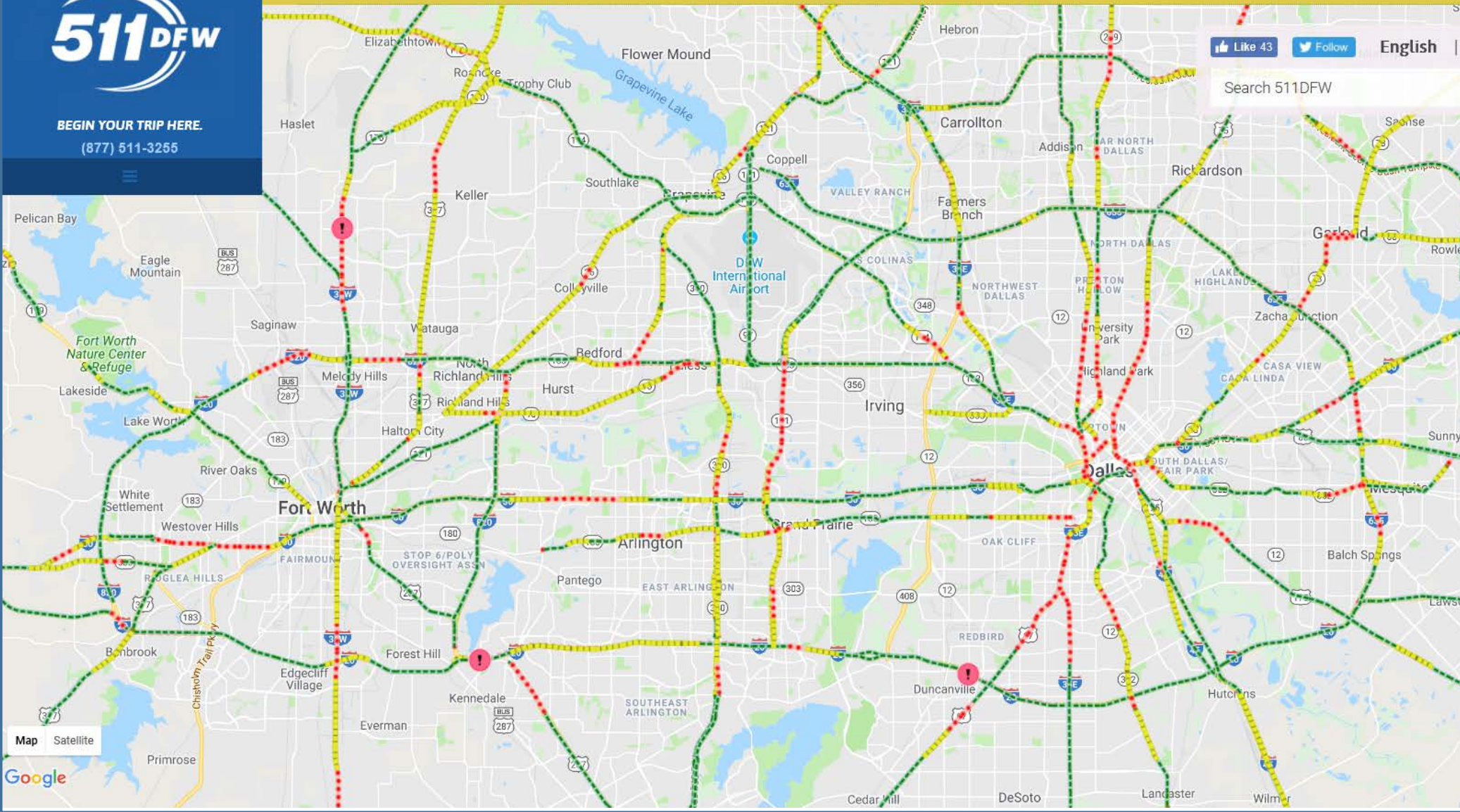
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  - CAMERAS
  - MESSAGE SIGNS
  - PARKING
- Transit
  - TRANSIT INCIDENTS
  - TRANSIT CONSTRUCTION
  - RAIL
  - BUS STOP
- Weather
  - WEATHER ALERT
  - WEATHER FORECAST
  - RADAR OVERLAY
- Other
  - EV CHARGING STATIONS
- Map Options
  - Refresh Rate: 5 mins
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# 511DFW Waze Events Display

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Transit

- TRANSIT INCIDENTS
- TRANSIT CONSTRUCTION

RAIL

BUS STOP

Weather

- WEATHER ALERT
- WEATHER FORECAST
- RADAR OVERLAY

Other

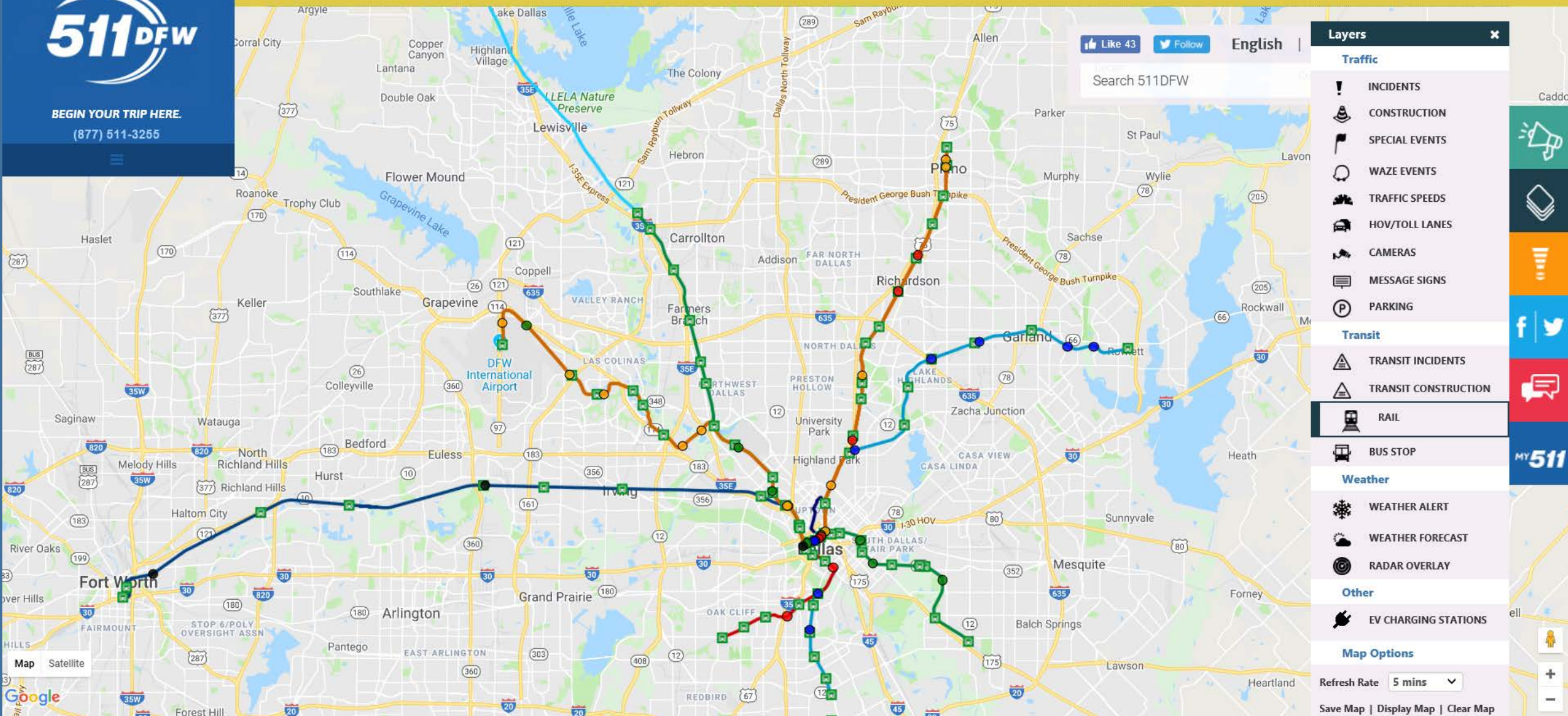
EV CHARGING STATIONS

Map Options

Refresh Rate 5 mins

Save Map | Display Map | Clear Map

Vertical sidebar with icons for: megaphone, map, signal tower, social media (Facebook, Twitter), speech bubble, and MY 511 logo.





# 511DFW Transit Bus Stops Display

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**Select Bus Routes**

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- Route 206 GLENN HEIGHTS EXPRESS
- Route 208 NORTHWEST PLANO PARK & RIDE
- Route 21 RED BIRD TRANSIT CENTER
- Route 210 JACK HATCHELL EXPRESS
- Route 211 LEGACY/TOYOTA
- Route 24 MOCK STA/McMILLAN
- Route 26 HATCHER STATION
- Route 27 HINES/PARKLAND RAIL STATION

Showing 1 to 148 of 148 entries

OK

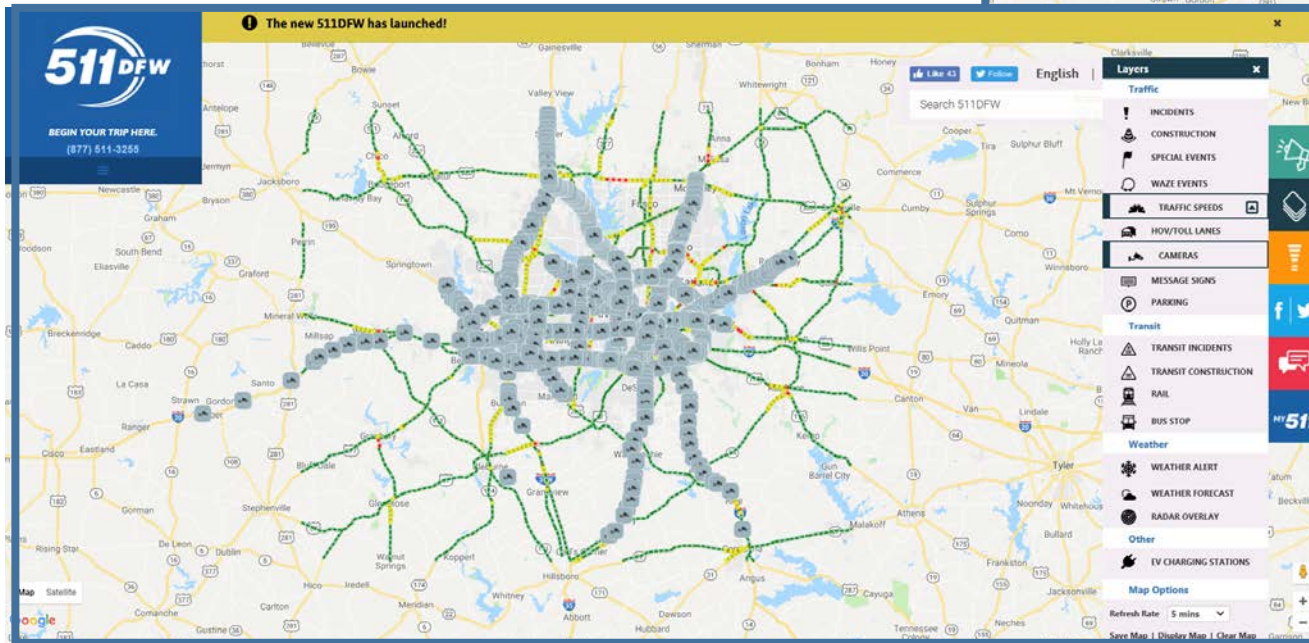
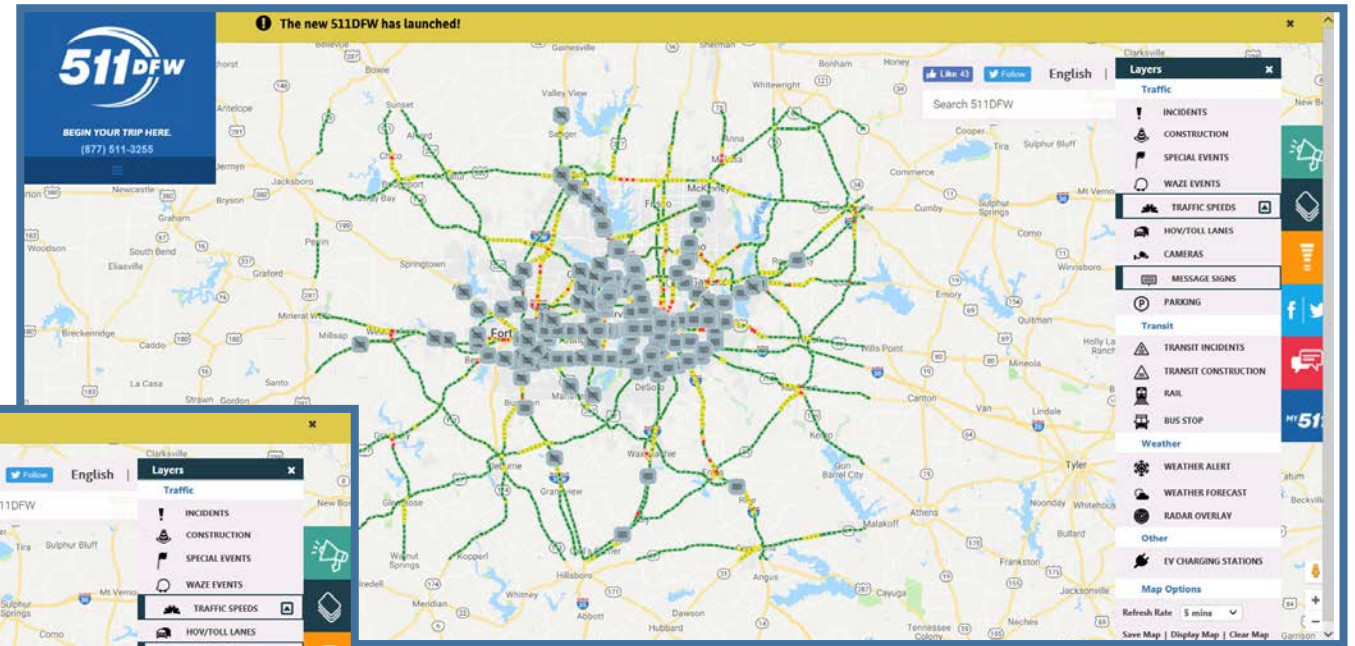
**Layers**

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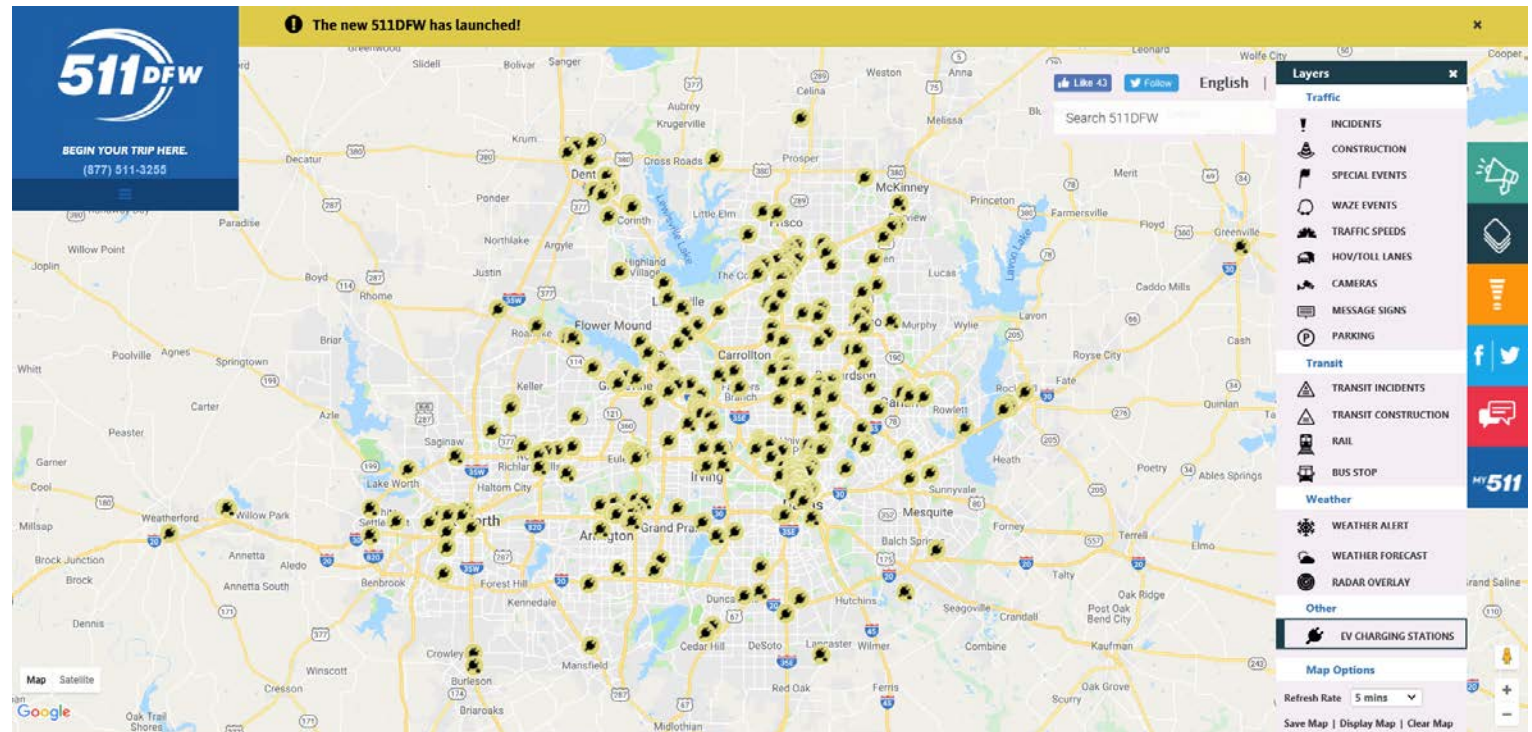
# Regional Closed Circuit Television and Dynamic Message Signs Display





# 511DFW and EcoTrafiX Components Recent and Future Enhancements

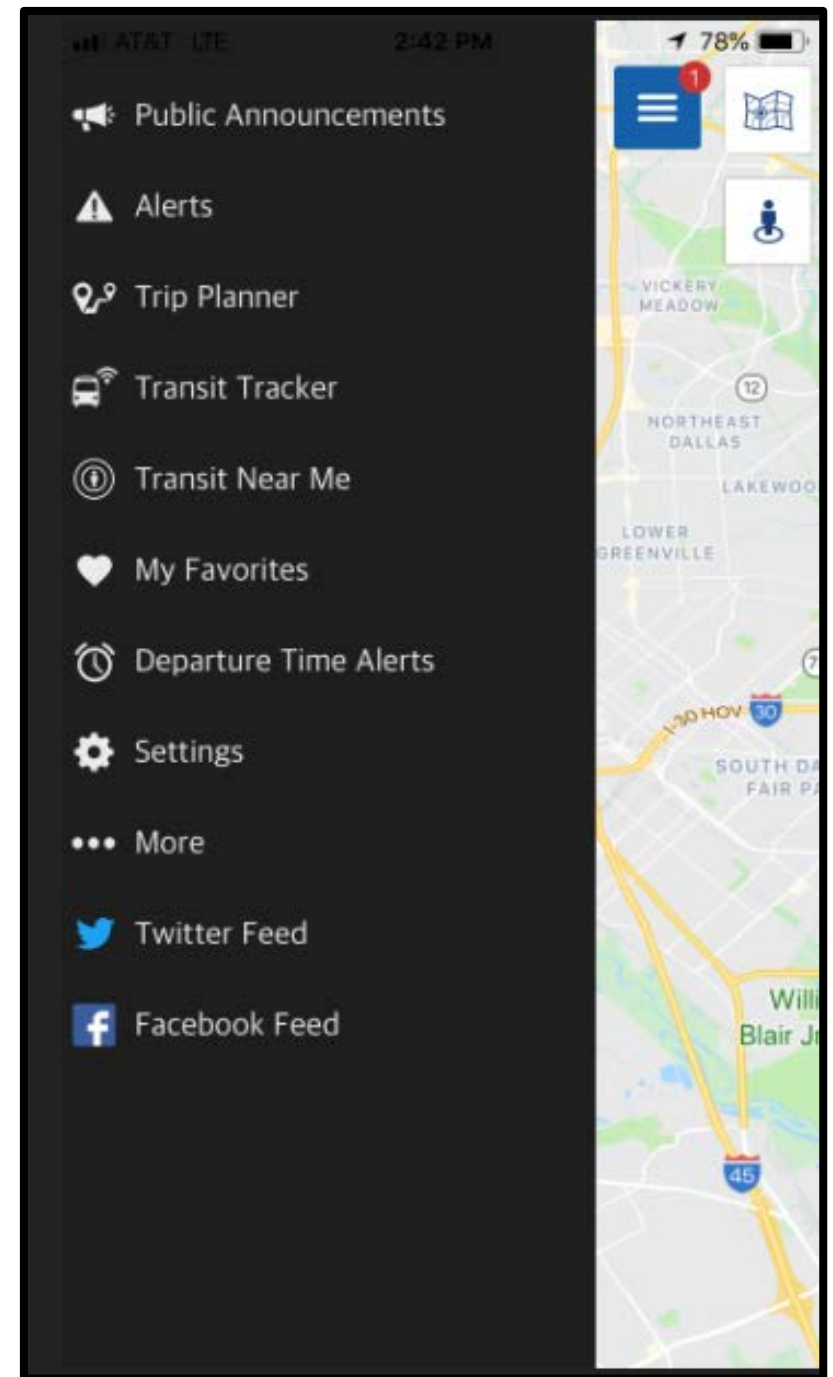
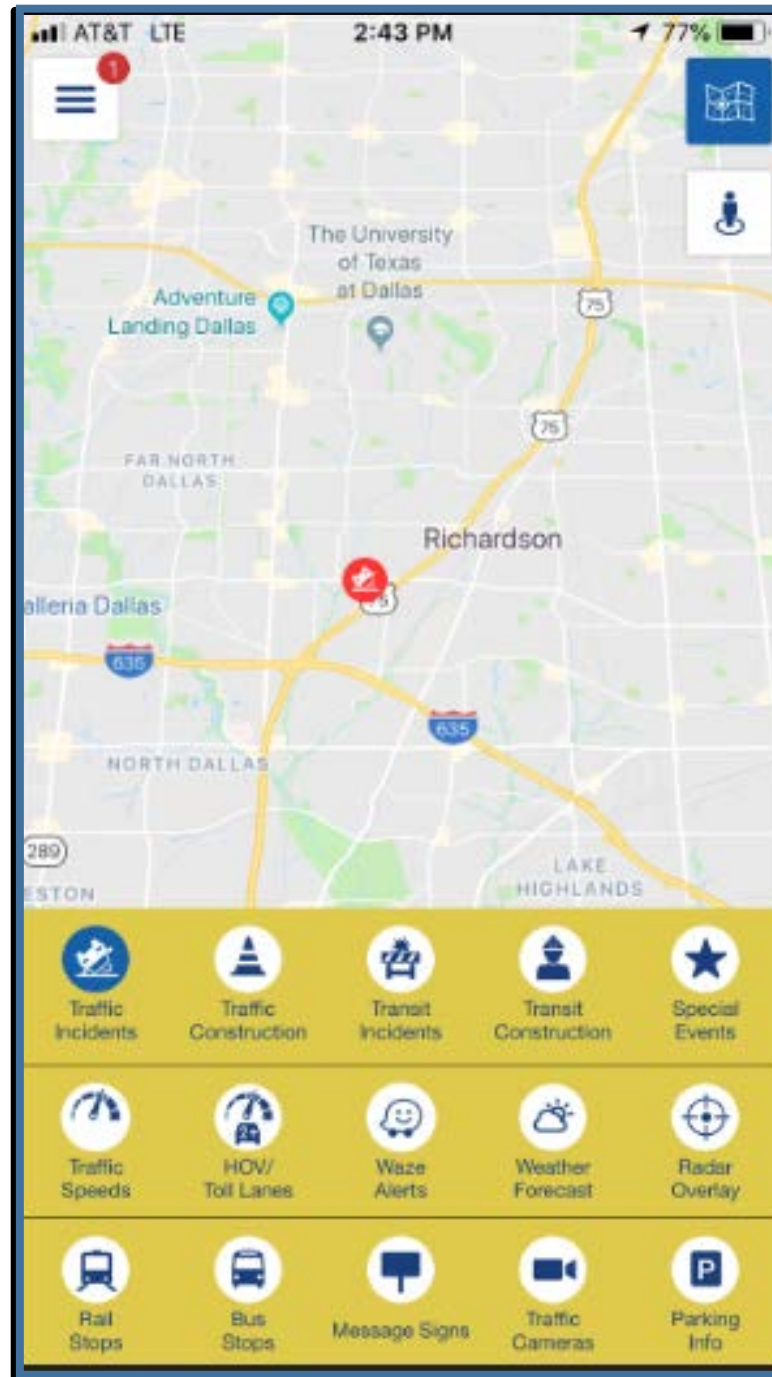
- EV Charging Stations
- Bike/Ped Routes
- Freeway Motorist Assistance
- Future:
  - Traffic Signal Control Module
  - Flood data
  - Parking
  - Wrong Way Driving
  - Marketing and Outreach



# 511DFW App Display



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# Questions or comments?

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**[mthompson@nctcog.org](mailto:mthompson@nctcog.org)**

**817-608-2336**

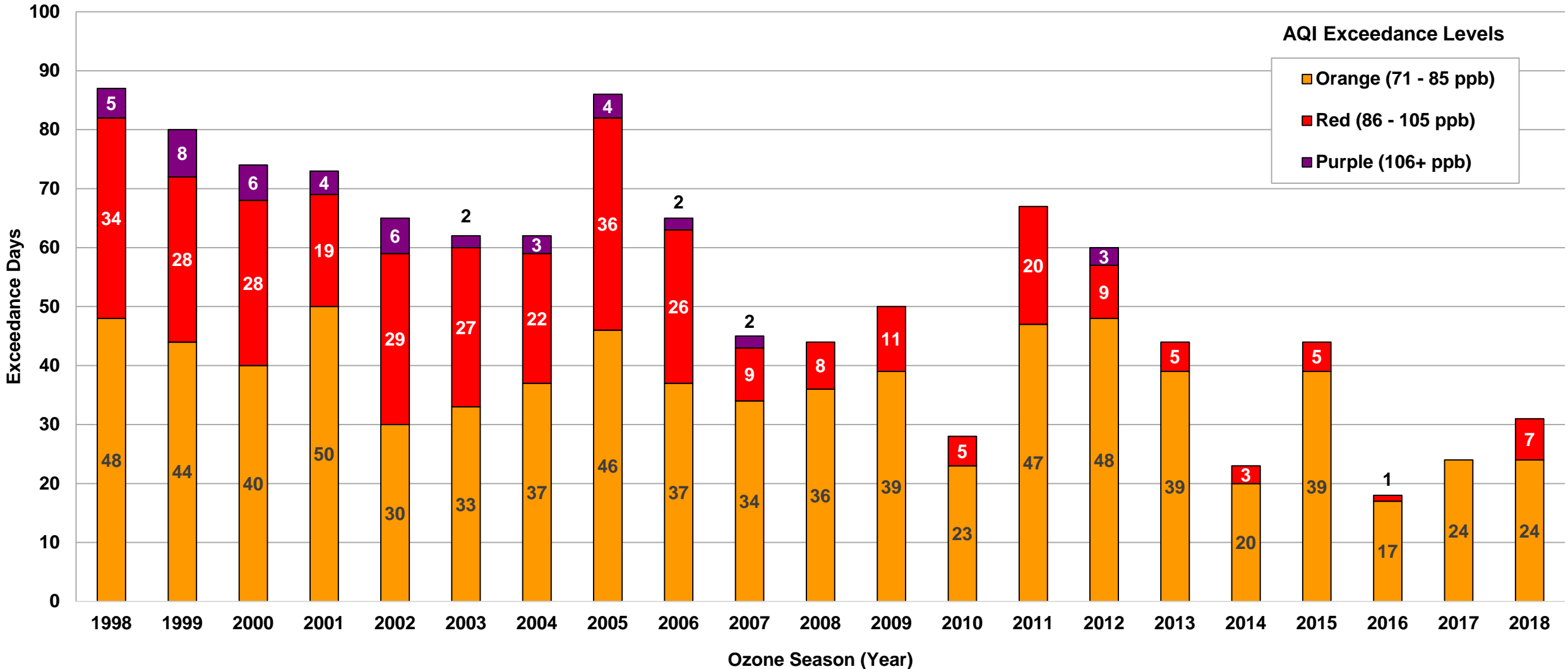
**Eric Quintana**

**[equintana@nctcog.org](mailto:equintana@nctcog.org)**

**817-608-2381**

# 8-HOUR OZONE NAAQS HISTORICAL TRENDS

Based on  $\leq 70$  ppb (As of October 26, 2018)

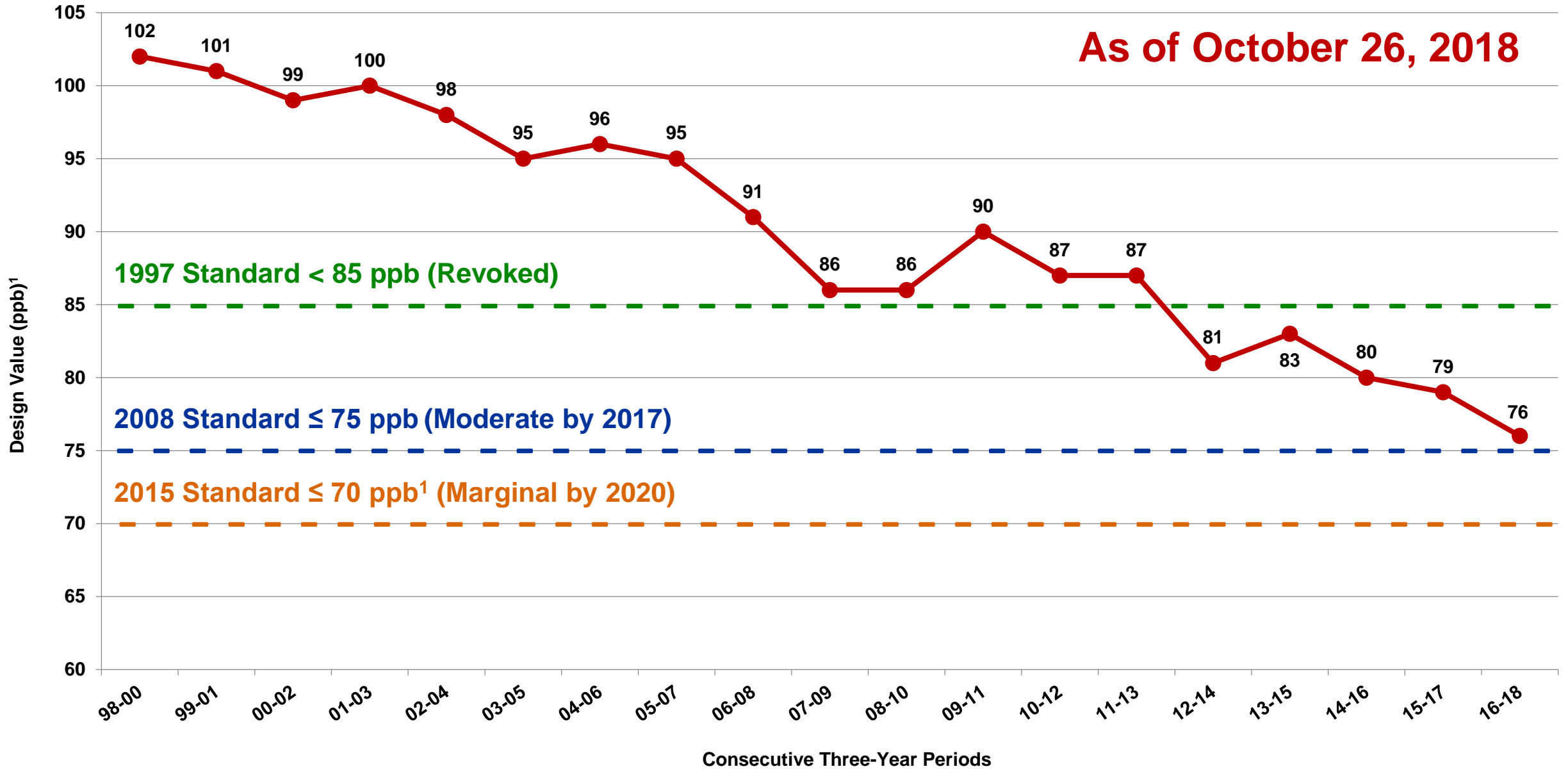


Exceedance Level indicates daily maximum eight-hour average ozone concentration.  
Exceedance Levels are based on Air Quality Index (AQI) thresholds established by the EPA for the revised ozone standard of 70 ppb.

Source: TCEQ, [http://www.tceq.state.tx.us/cgi-bin/compliance/monops/8hr\\_monthly.pl](http://www.tceq.state.tx.us/cgi-bin/compliance/monops/8hr_monthly.pl)  
ppb = parts per billion

# 8-HOUR OZONE NAAQS HISTORICAL TRENDS

As of October 26, 2018



<sup>1</sup>Attainment Goal - According to the US EPA National Ambient Air Quality Standards, attainment is reached when, at each monitor, the *Design Value* (three-year average of the annual fourth-highest daily maximum eight-hour average ozone concentration) is equal to or less than 70 parts per billion (ppb).

# CONTACTS

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**<http://www.nctcog.org/trans/air/ozone/index.asp>**

**<https://www.airnorthtexas.org/>**