Air North Texas

Our Partners

American Lung Association – DFW Region
Brookhaven College
City of Anna
City of Arlington
City of Bedford
City of Cedar Hill
City of Dallas
City of Denton
City of Fort Worth
City of Grand Prairie
City of Grapevine
City of Kennedale
City of Mesquite
City of North Richland Hills
City of Plano
City of Richardson
Cedar Valley College
DART
DCTA
DFW Airport
Health and Wellness Alliance for Children
Hood County
Insta-brite Technologies
NCTCOG
The North Texas Commission
Dallas County
Parker County
Tarrant County
TxDOT – Dallas
TxDOT – Fort Worth
U.S. Green Building Council – North Texas Chapter
University of North Texas Health Science Center
University of Texas at Arlington
UT Southwestern
The-T
Air North Texas 2015-2016 Partner Awards
Award Categories

• Outstanding Partners
  – Outstanding Advertising
  – Outstanding Outreach
  – Outstanding Partner Involvement
  – Outstanding Initiative
  – Outstanding Media Engagement
  – Arlo Ambassador

• 2015-2016 Air North Texas Partner of the Year
Air North Texas 2015-2016 Partner Awards
Outstanding Advertising
Clean Air Action Day (CAAD) - June 24th
Action Pledge

CAAD is the first Friday of the summer each year, and this year it is on June 24th. Take action for clean air and do something improve air quality for the health of our community!

A random drawing will be held on June 24th for all action pledge participants (pledges must be completed by June 30th). Prizes include:

1 - $25 gift card to Amazon.com
10 - Sustainability Goodie Bags (canvas totes, water bottle, reusable cutlery set, and pen)

Thanks for taking the action pledge! Check on the arrow below to do the pledge
Air North Texas 2015-2016 Partner Awards
Outstanding Partner Involvement

FORT WORTH

City of Fort Worth @cityoffortworth · Aug 28
#AirCheckTexas taking vehicle replacement applications

AirCheckTexas taking vehicle replacement applications
North Texans whose vehicles have failed the emissions portion of the state inspection in the past 30 days or are at least 10 years old are encouraged to apply for assi...
fortworthtexas.gov

Clean Air Action Day participation grows 28 percent

Posted Sept. 6, 2015

Clean Air Action Day, a day encouraging North Texans to team up to make clean air decisions, experienced tremendous growth this year with many residents committing to make small changes in an effort to improve the environment.

Twenty-eight percent more residents participated in this year’s event, held from 10 a.m. and 1 p.m. in many of the most popular communities for 2015 were maintaining vehicles, avoiding idling and commuting trips.

One commitment showing a significant increase in participation was recycling or walking, growing from 15 to 33 percent in 2015.

Learn more about the event and consider sharing for better air quality all year long.

Two North Texas counties are in nonattainment for the pollutant ozone and have until 2017 to meet the federal standard.

Get articles like this in your inbox weekly: Subscribe to City News

City News

- ARTS info on this month’s music festival, art exhibit
- BathGuide: Find the best new, free, or repeat
- Apple trees: Local fresh markets near you in Justin, via Feed
- Feed share to your favorite pet rescue
- Clean air action day schedule of events
- More news...

Public Notices
Be a Hero and Help Save the World: Take Part in Clean Air Action Day

June 24, 2016 is the first Friday of summer and Clean Air Action Day!

High Levels of ozone are hazardous to human health. Emissions that lead to ozone production come from our vehicles, manufacturing processes and power plants.

Help promote clean air and get a chance to win a Nest Thermostat by completing Clean Air Actions on Clean Air Action Day.

- Carpool
- Use public transportation
- Bike or walk to work
- Bring a lunch to work
- Share information on ozone, Clean Air Action Day and Air North Texas on social media
- Encourage friends and family to take part in Clean Air Action Day
- Commit to Be Air Aware the entire ozone season
- Find more Clean Air Action ideas at airnorthtexas.org

Visit CONNECTEDONLINE to learn more about how you can make a difference in air quality in North Texas and win prizes for taking part Clean Air Action Day.
Air North Texas 2015-2016 Partner Awards
Outstanding Media Engagement
Air North Texas 2015-2016 Partner Awards
Arlo Ambassador
Air North Texas 2015-2016 Partner Awards
Partner of the Year

City of Grand Prairie - Municipal Government
August 31 at 9:31am · 0
The ozone is predicted to be at Level Orange in the Dallas-Fort Worth area today. Children, older adults, and people with lung disease should limit outdoor activity. You can reduce ozone pollution by living a clean air lifestyle such as carpooling, Express, and observing the speed limit.

City of Grand Prairie - Municipal Government
June 22 · 0
Reducing ozone-forming pollution and improving air quality today protects the health and welfare of North Texans today and quality of life for tomorrow. Take action for clean air on Friday, June 24.

DFW Area Predicted to be Level Orange
The ozone is predicted to be at Level Orange today. Children, older adults, and people with lung disease can reduce ozone-forming emissions by driving less, carpooling, or using public transportation.

Air North Texas
It's up to each of us to take responsibility for the air we breathe. Clean Air Action Day 2016 will be on the first Friday of Summer, June 24.
Air North Texas 2015-2016 Partner Awards
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www.airnorthtexas.org
Legislative Program

Regional Transportation Council
November 10, 2016

Amanda Wilson, AICP
North Central Texas Council of Governments
Draft RTC Legislative Program

Continue Progress Made Toward Improving Transportation and Air Quality

- Support full appropriation of Proposition 1 and 7 revenues
- Protect the ending of diversions
- Retain ability to utilize tools
- Continue to appropriate LIRAP/LIP
- Retain eminent domain authority for transportation purposes
- Support performance-based planning
Draft RTC Legislative Program

Invest in Further Progress Toward Meeting Transportation and Air Quality Needs

- 635 East Project CDA
- Identify additional transportation revenue
- Appropriate LIRAP’s balance of previously collected funds; modernize and increase flexibility in LIRAP/LIP
- Protect TERP revenue, ensure funds are utilized on projects that meet the intent of the program, including roadway/goods movement transportation projects
Draft RTC Legislative Program

Provide Support for Other Topics to be Addressed in Legislation

- Improve air quality
- Increase safety
- Plan/implement all modes of transportation
- Relieve congestion
- Maintain local and regional decision-making
- Utilize innovative technology
Draft RTC Legislative Program

Provide Support for Other Topics to be Addressed in Legislation (Continued)

- Support land use/transportation connections
- Maintain active operations and management of the system
- Enable transportation data sharing with privacy protection
- Plan for shared mobility solutions
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Communications Coordinator
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www.nctcog.org/trans/legislative
REGIONAL 10-YEAR PLAN AND NEXT 10 YEARS OF PROJECTS

Regional Transportation Council
November 10, 2016
POLICY SUMMARY

• Thank Texas Transportation Commission for formula funds.

• Thank Legislature and the public for new revenues.

• Assumes legislative minimums are met.

• Adds evidence that urban congestion is not fully addressed.
  - Opens up question on State allocations.
  - Need for innovative funding tools.
  - Need for additional revenues in next Legislative Session.
REGIONAL FUNDING ALLOCATION
FROM FY 2017 to FY 2026

• TIP funding categories for project selection
  • Category 2 – Urban Mobility Corridors (RTC)
  • Category 4 – Statewide Connectivity (TxDOT Districts)
  • Category 12 – Commission Strategic Priority (TTC)

• Projects being evaluated in “three paths”
  A) Previously unfunded commitments or existing facilities under construction needing next phase funding
  B) New freeway projects
  C) New on-system arterial projects
PROJECT PRIORITIZATION: PROCESS OF FILLING FUNDING BUCKETS

A). Existing Facilities Under Construction Needing Next Phase Funding
   - Needs Assessment Staged Construction Metric

B). New Freeway Project
   - HB 20 Freeway Performance Filter
   - Tolled?, CAPMAIN?
     - Yes: Category 2
     - No: Connectivity? District Interest?
       - Yes: Category 4
       - No: Commission Interest?
         - Yes: Category 12
         - No: Need for Additional Funding

C). New On-System Arterial Project
   - HB 20 Arterial Performance Filter
   - Tolled?, CAPMAIN?
     - Yes: Category 2
     - No: Connectivity? District Interest?
       - Yes: Category 4
       - No: Commission Interest?
         - Yes: Category 12
         - No: Need for Additional Funding
EAST- WEST EQUITY SHARE
(SAFETEA-LU and MAP-21)

- There have been no changes to the funding shares between the Eastern and Western Subregions since the last report in June 2016.
- Staff proposes to move the East-West equity balance closer to the preferred distribution through this effort.

<table>
<thead>
<tr>
<th>East-West Equity Share (SAFETEA-LU and MAP-21)</th>
<th>Cumulative Total ($ in Millions)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>WEST</td>
</tr>
<tr>
<td>SAFETEA-LU East-West Equity Total</td>
<td>$649.76</td>
</tr>
<tr>
<td>MAP-21 East West Equity Total</td>
<td>$320.98</td>
</tr>
<tr>
<td>Cumulative Total</td>
<td>$970.74</td>
</tr>
<tr>
<td>Percentage Shares</td>
<td>28.75%</td>
</tr>
</tbody>
</table>
### REGIONAL FUNDING ALLOCATION
FROM FY 2017 to FY 2026
with Equity Share Adjustments

(MOVE $100M)

<table>
<thead>
<tr>
<th>FUNDING CATEGORY</th>
<th>WEST ($ IN BILLIONS)</th>
<th>EAST ($ IN BILLIONS)</th>
<th>TOTAL ($ IN BILLIONS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAT 2: Metropolitan Corridor(^2)</td>
<td>$1.10</td>
<td>$2.32</td>
<td>$3.42</td>
</tr>
<tr>
<td></td>
<td>$1.20</td>
<td>$2.22</td>
<td></td>
</tr>
<tr>
<td>CAT 4: Connectivity Corridor</td>
<td>$0.49</td>
<td>$1.04</td>
<td>$1.53</td>
</tr>
<tr>
<td>CAT 12: Strategic Priority “Clear Lane”</td>
<td>$0.65</td>
<td>$1.38</td>
<td>$2.03</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>$2.34</strong></td>
<td><strong>$4.64</strong></td>
<td><strong>$6.98</strong></td>
</tr>
</tbody>
</table>

1. Categories 2, 4, and 12 funds are distributed 32 percent in the West and 68 percent in the East. Formulas are being updated.
2. Propose to adjust Category 2 funds to balance the East/West equity.
## ALLOCATIONS BY COUNTY

### West

<table>
<thead>
<tr>
<th>County</th>
<th>Programming Target by Congestion Measure&lt;sup&gt;1&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hood</td>
<td>$23,936,895</td>
</tr>
<tr>
<td>Johnson</td>
<td>$112,247,476</td>
</tr>
<tr>
<td>Parker</td>
<td>$62,338,475</td>
</tr>
<tr>
<td>Tarrant</td>
<td>$2,102,365,092</td>
</tr>
<tr>
<td>Wise</td>
<td>$34,116,863</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$2,335,004,800</strong></td>
</tr>
</tbody>
</table>

### East

<table>
<thead>
<tr>
<th>County</th>
<th>Programming Target by Congestion Measure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Collin</td>
<td>$986,036,416</td>
</tr>
<tr>
<td>Dallas</td>
<td>$2,715,466,616</td>
</tr>
<tr>
<td>Denton</td>
<td>$513,535,215</td>
</tr>
<tr>
<td>Ellis</td>
<td>$126,931,497</td>
</tr>
<tr>
<td>Hunt</td>
<td>$49,228,764</td>
</tr>
<tr>
<td>Kaufman</td>
<td>$168,579,106</td>
</tr>
<tr>
<td>Rockwall</td>
<td>$89,607,585</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$4,649,385,200</strong></td>
</tr>
</tbody>
</table>

**Total Allocation** $6,984,390,000

<sup>1</sup>: Based on 2040 Forecasted Total Congestion Delay
PROJECT SELECTION SUMMARY

• The Commission picks Category 12 projects.
• Many projects are not funded (e.g., IH 635 E at IH 30)
• Denton County benefits from IH 35 E improvements in Dallas County.
• Collin County is $400M more than Denton County.
• Category “A” Projects received priority (Under Construction)
• IH 35 E in Dallas County North of IH 635 to Denton County Line received $295M (Will get $200M from innovative finance arrangement from revenue inside the IH 635 interchange)
• Need IH 635 CDA from US 75 to Royal/Miller (Allocating $50M only)
• Category 12 contingency for $300M in the East.
PROJECT SELECTION SUMMARY

• Dallas slightly under-funded for CMAQ/STP-MM; Propose a City of Dallas Bond Program partnership.
• Hunt County under review.
• Rockwall and Ellis Counties over due to ongoing construction projects.
• Projects balance East/West with $100M credit to the West.
• Projects balance in Categories 2, 4, & 12.
• Projects approximate target totals.
• Estimated “Year of Construction” would still need to occur.
• These are new funds.
NEXT STEPS

• Finalize draft project listing
• Balance project needs with available resources and YOE
• Submit to TxDOT headquarters to fulfill the HB 20 requirements
<table>
<thead>
<tr>
<th>Date</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>June 2016</td>
<td>TTC announced new Category 2 Funds</td>
</tr>
<tr>
<td>July 2016</td>
<td>Introduced 10-year plan process to STTC for information</td>
</tr>
<tr>
<td>August 2016</td>
<td>Introduced 10-year plan process to RTC for information</td>
</tr>
<tr>
<td>September 2016</td>
<td>NCTCOG Public Meetings: 10-Year Plan Process (September 12, 14, &amp; 20)</td>
</tr>
<tr>
<td>October 2016</td>
<td>STTC for information item</td>
</tr>
<tr>
<td></td>
<td>RTC for information item</td>
</tr>
<tr>
<td></td>
<td>NCTCOG/TXDOT consensus on preliminary project list</td>
</tr>
<tr>
<td>November 2016</td>
<td>RTC first reading</td>
</tr>
<tr>
<td></td>
<td>NCTCOG Public Meetings: Project List</td>
</tr>
<tr>
<td></td>
<td>(November 7, 9, and 15)</td>
</tr>
<tr>
<td>December 2016</td>
<td>STTC action</td>
</tr>
<tr>
<td></td>
<td>RTC final action</td>
</tr>
<tr>
<td>December 15th 2016</td>
<td>TTC briefing</td>
</tr>
</tbody>
</table>
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Waze Connected Citizens Program & 511DFW Data Sharing Portal

Regional Transportation Council
November 10, 2016

Thomas Bamonte
North Central Texas Council of Governments
Overview

Transportation Data Today

Waze Connected Citizens Program

Next Steps
Transportation Data Sources

Traffic Management Centers
Transportation Data Sources

Travel Navigation Services

Google Maps

here

INRIX
Transportation Data Sources

Vehicles
Transportation Data Sources

Motorists
Transportation Data Flows

Traffic Management Centers

Vehicles

Travel Navigation Services

Travelers

DRAFT
Connected Citizens Program (CCP)

Hosted by Waze

Established two years ago

100+ City, DOT, MPO, private-sector participants

International scope

No cost to participate
Planned road closures

Special events

Unusual incidents that have major impacts
  – Severe crashes with lane closures
  – Weather-related closures
  – Public emergencies
CCP: Waze Shares Information

Roadway incidents
  – Crashes
  – Stopped vehicles
  – Objects on road

Traffic congestion
  – Reported
  – Derived
Waze Map Editing Tools
511DFW: Region’s Data Share Portal
Next Steps

Enter into Connected Citizens Program agreement with Waze

Issue Request to Partners to encourage other data sharing possibilities using 511DFW data portal

Work with regional partners to optimize transportation data sharing via 511DFW to improve the efficiency and safety of region’s highway system
Contact Information

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END OF 2016 OZONE SEASON

Regional Transportation Council

Chris Klaus, Senior Program Manager
November 10, 2016
Exceedance Level indicates daily maximum eight-hour average ozone concentration and are based on Air Quality Index (AQI) thresholds established by the EPA for the revised ozone standard of 70 ppb.

Orange (71-75 ppb)
Orange (76-85 ppb)
Red (86-105 ppb)
Purple (106+ ppb)

Exceedance Days

Ozone Season (Year)

End of Ozone Season
Eight-Hour Ozone Exceedance Days Based on 70 ppb Standard

*2016 data not certified by the TCEQ.
Source: TCEQ, http://www.tceq.state.tx.us/cgi-bin/compliance/monops/8hr_monthly.pl
ppb = parts per billion
According to the US EPA National Ambient Air Quality Standards, attainment is reached when, at each monitor, the three-year average of the annual fourth-highest daily maximum 8-hour average ozone concentration is less than or equal to 75 parts per billion (ppb).
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 less than or equal to 70 parts per billion (ppb).

1997 Standard < 85 ppb (Revoked)

2008 Standard ≤ 75 ppb\(^1\) (by 2017)

2015 Revised Standard ≤ 70 ppb (TBD; Moderate by 2023)

^2016 data not certified by the TCEQ.
Design Value (DV) - three-year average of the annual fourth-highest daily maximum eight-hour average ozone concentration is less than or equal to 70 parts per billion (ppb).

*2017 DV based on 2016 data. Not certified by the TCEQ.

Source: NCTCOG TR Dept
END OF OZONE SEASON

Historical Emission Factors – Cars and Trucks

![Graph showing historical emission factors for cars and trucks over analysis years from 2006 to 2017. The graph displays trends for VOC and NOx emissions per mile.]
Design Value (three-year average of the annual fourth-highest daily maximum eight-hour average ozone concentration) is less than or equal to 70 parts per billion (ppb).

*2016 design value data not certified by the TCEQ.
Historical Design Value and Temperature

Design Value (three-year average of the annual fourth-highest daily maximum eight-hour average ozone concentration) is less than or equal to 70 parts per billion (ppb).

*2016 data not certified by the TCEQ.
Future Considerations

Impacts of Meteorological Data

- Precipitation ✓
- Temperature ✓
- Humidity ✓
- Wind Speed and Direction

Background Levels

Daily and Site Specific Comparisons

Potential to Develop Dynamic, Targeted Control Strategies
REPRESENTNES

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Air Quality Policy and Regulations:  www.nctcog.org/trans/air/policy/
NCTCOG Ozone Updates:  www.nctcog/ozone
Gamification Development

Generate middle and high school student interest in Aerospace and Aviation Careers

University of Texas at Arlington, Art + Art History Department, Joshua Wilson

Free Downloadable app on Apple and GooglePlay

Online Stat Board
App Aircraft

- Lockheed Martin’s F35 and C130J
- Bell Helicopter’s V280
- Airbus Helicopter’s H155 and EC225
- An aircraft character was developed by high school students to allow them to learn game development and design by creating mobile games (SEED Program with UTA)
App Settings

- Alliance Airport
- Dallas-Fort Worth
- Corpus Christi
A product of the North Texas Aviation Education Initiative

App Trivia and Trivia Bonus

Beginning of Level

End of Level

TRIVIA

Aerospace Engineers design aircraft.

{TAP TO CONTINUE}

TRIVIA BONUS

What field do most Airline Pilots major in?

A) Aviation Engineering
B) Business Aviation
C) Meteorology

North Central Texas Council of Governments
Gamification Development

Career and Technology students participated in beta testing at Arlington, Birdville, Fort Worth and Northwest Independent School Districts
Current Sponsors

LOCKHEED MARTIN

Alliance Texas

AIRBUS

BELL Helicopter

DFW Regional Aerospace Consortium

NCTCOG
FLYBY Score Board

Take flight and put your piloting skills to the test in FLYBY. Soar over Texas' iconic locations while dodging hostile aircraft on your journey to the finish line. Earn medals for your bravery and collect parts to build new aircraft. Compete with friends to get the highest online score for each level.

FLYBY Score Board

Below are the top ten highest scores for the FLYBY App. Test your skills and try to beat the scores below.

<table>
<thead>
<tr>
<th>Level 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initials</td>
</tr>
<tr>
<td>JJW</td>
</tr>
<tr>
<td>JJW</td>
</tr>
</tbody>
</table>
Questions?

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Lisa Key
NCTCOG
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For more information see NCTaviationcareers.com