

Automated Vehicle Program: Data Sharing Projects Evaluation Criteria

Surface Transportation Policy Committee

**Thomas J. Bamonte
North Central Texas Council of Governments
April 28, 2017**

Automated Vehicle Program Funding Summary

Texas AV Proving Ground Network

- UTA campus/streets - \$350,000
- Second AV shuttle deployment - \$250,000
- I-30 test corridor (Managed Lanes 3.0) - \$1M

Transportation data infrastructure

- Traffic signal data sharing - \$250,000
- Transportation data sharing (Waze/511DFW) - \$250,000

“Mover” prototype - \$575,000

Traffic Signal Data Project



Multiple Data Sharing Options

INTELLIGHT
NEVER STAND STILL



T Trafficware

 **Connected
Signals**



Evaluation Criteria

Eligibility Requirements

1. Public entity with jurisdiction over traffic signals
2. Public entity is willing to make its traffic signal data accessible to developers, universities, NCTCOG, other public entities, etc. consistent with regional policies/practices

Evaluation Criteria

Evaluation Criteria

Amount requested [10%]

Quality of proposed technical solution [60%]

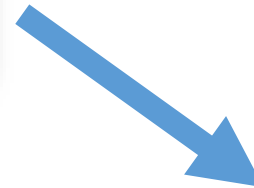
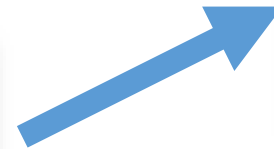
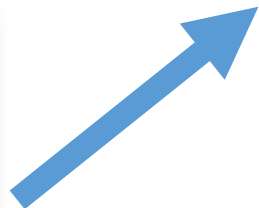
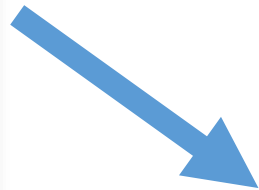
- Number of traffic signals made accessible
- Number on Routes of Significance
- Traffic volumes served by traffic signals
- Connectivity w/other data-sharing jurisdictions
- Ability to share data w/multiple parties

Can implement solution in timely fashion [30%]

Waze/511DFW Data Sharing Project



Data Infrastructure: Regional Approach



1. What Information to Share

Planned road closures

Special events likely to impact traffic

Road closures due to weather or other incidents

2. With Whom to Share Information

Waze/Google Maps: Closures@Google.com

Inrix: Support@Inrix.com

HERE: [HERE Traffic Alerts@here.com](mailto:HERE_Traffic_Alerts@here.com)

3. How to Share

EventRoadClosureForm

Event Road Closure Form

EventID

*Event Name

Reporting Organization

*Event City

Event Recurrence

Event Website

*Event Start Date

*Event End Date

*Event Start Time (24hr) 1PM = 13, 2PM = 14, 3PM = 15, 4PM = 16, 5PM = 17, 6PM = 18, 7PM = 19,

*Event End Time (24hr) 8PM = 20, 9PM = 21, 10PM = 22, 11PM = 23, 12 AM = 00, 1AM = 01 etc

StreetEventInfo subform

*Street Being Closed EventID

*Closure Direction

*Closed From: *TO:

Google Map Link

Record: 1 of 2 No Filter Search

EventSentToProvidersYI Event Sent Date

Additional Positive Proposal Elements

1. Join the Waze Connected Citizens Program: <https://www.waze.com/ccp>
2. Coordinate transportation data sharing with 911 Operations
3. Utilize .xml data feeds

Evaluation Criteria

Eligibility Requirements

1. Public entity with jurisdiction over highways/streets or transit system
2. Public entity is willing to make its highway and traffic or transit conditions data accessible to developers, universities, NCTCOG, other public entities, etc. consistent with regional policies/practices

Evaluation Criteria

Evaluation Criteria

Amount requested [10%]

Quality of proposed technical solution [60%]

- Routes of Significance in community
- Traffic volumes
- Population
- Connectivity
- Ability to share data with multiple parties

Ability to implement proposed solution in a timely fashion [30%]

Recommendation

Approve evaluation criteria for traffic signal data sharing and Waze/511DFW projects

Contact Information

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SOUTHERN DALLAS COUNTY PARTNERSHIP

SURFACE TRANSPORTATION TECHNICAL COMMITTEE

APRIL 28, 2017

BACKGROUND

- A partnership is proposed between Dallas County, the City of Lancaster, the City of Hutchins, and the Regional Transportation Council (RTC) to assist in funding two projects in southern Dallas County:
 - Jefferson Avenue/Pleasant Run Road
 - Wintergreen Road
- These projects have important regional benefits:
 - Provide connections to intermodal facilities
 - Provide connection to IH 45
 - Future connection to Loop 9
 - Provides backbone for future freight rail improvements and investments in the area

PROPOSED PROJECTS

Projects Funded by the Region in the Southern Dallas County Area

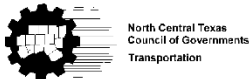
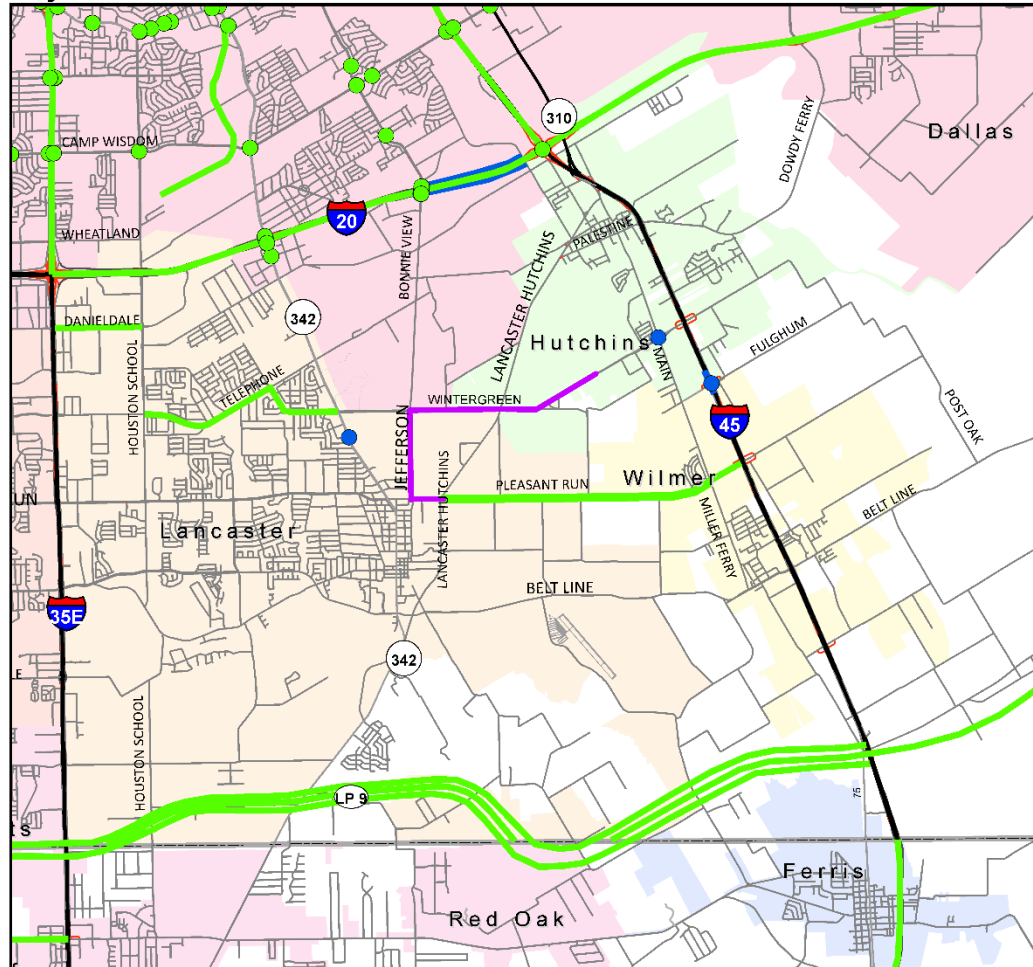
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Status

- Recently Completed
- Funded/Under Construction
- Current Requests

Legend

- Major Highways / Roadways
- Other Highways / Roadways
- County Boundary



*Some projects are citywide and regional in scope and are not displayed as a discrete location on the map.

PROPOSED FUNDING PARTNERSHIP (\$ in Millions)

DRAFT

Location	Fiscal Year	Description	RTC	City of Lancaster	City of Hutchins	Dallas County	Total Funding
Jefferson Avenue/ Pleasant Run Road	2019	Widen 2 to 4 Lanes	\$8.42	\$1.04	\$0.00	\$1.04	\$10.50
Wintergreen Road	2019	Widen 2 to 4 Lanes	\$9.58	\$1.96	\$2.00	\$3.96	\$17.50
Total			\$18.00	\$3.00	\$2.00	\$5.00	\$28.00

BENEFITS OF PARTNERSHIP

- Strategic partnership with regional partners
- Leverages local and federal funding
- Improves access to intermodal facilities
- Improves access for Environmental Justice communities

ACTION REQUESTED

- Recommend the RTC to approve the proposed funding partnership with Dallas County, City of Lancaster, and City of Hutchins for roadway projects in southern Dallas County.
- Administratively amend the 2017-2020 Transportation Improvement Program (TIP)/Statewide Transportation Improvement Program (STIP) and other planning/administrative documents to incorporate these changes.

TIMELINE

November 2016
-March 2017

Coordination with County and Cities

April 2017

Public Meetings

STTC Action

May 2017

RTC Action

August 2017

Inclusion in the 2017-2020 TIP/STIP

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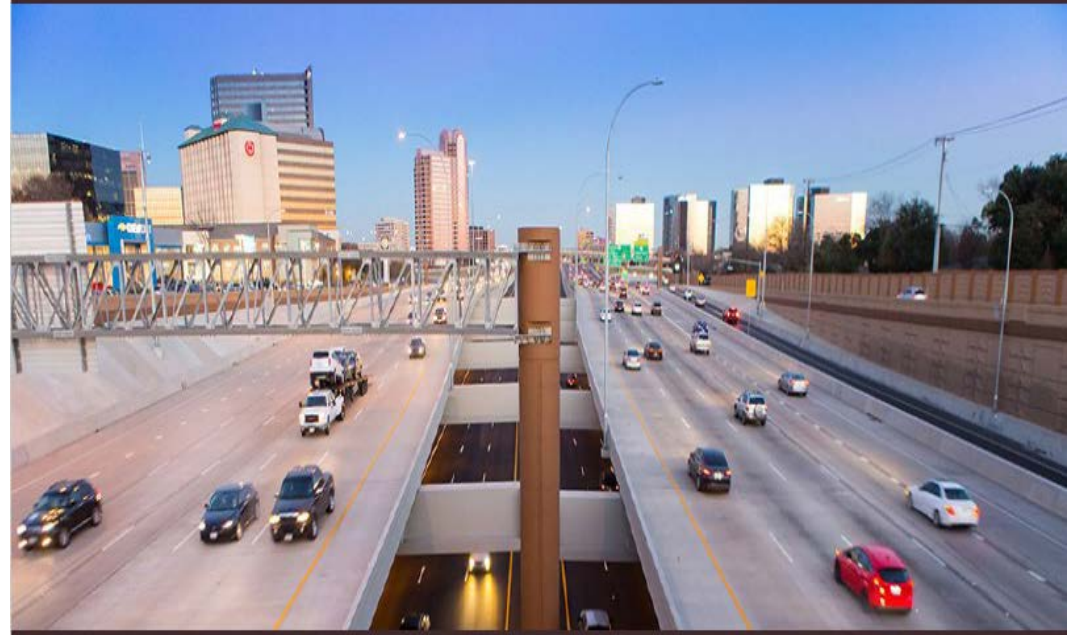


DEVELOPMENT OF THE 2019-2022 TIP

Information and
Upcoming Schedule

Surface Transportation
Technical Committee

April 28, 2017



PROCESS

1. Review all existing projects and solicit additional locally funded projects
2. Make needed adjustments to existing projects (staging, funding, scope)
3. Develop revised project listings
4. Balance project listings to estimated revenue
5. Conduct Mobility Plan and Air Quality review
6. Solicit public review (process, draft listings, final listings)
7. Finalize project listings and submit to partners

MEETING EXPECTATIONS

❖ Meetings to discuss individual projects will be:

- In-Person
- Conference Calls
- “Clustered”

❖ Who needs to attend?

- Project managers that can answer questions about the status of projects in question
- Fiscal managers to answer questions about expenditures, agreements, and invoicing
- Texas Department of Transportation (TxDOT) staff will be present to help set realistic expectations regarding timing and process

MEETING EXPECTATIONS:

Project Status Update

❖ Information is needed by phase

- Engineering
- Environmental
- Right-of-Way (ROW)
- Utilities
- Construction/Implementation

❖ Start and End dates

- Estimated dates if phase has not started
- Actual dates if phase has been started
- Dates provided must be realistic given the realities of project implementation steps

❖ Local Match availability

- When will the local match be available? (If required)

MEETING EXPECTATIONS:

Project Financial Information

❖ Status of Agreements

- Local Project Advance Funding Agreements (LPAFA) with TxDOT
- Interlocal agreements with North Central Texas Council of Governments (NCTCOG)

❖ Invoicing

- Timely billings to TxDOT (Federal/State funds)
- Monthly reporting to the Revenue and Project Tracking System (RAPTS) for Regional Toll Revenue (RTR) projects

MEETING EXPECTATIONS:

Requests for Project Modifications

- Venue for requesting:
 - Changes to Scope or Limits
 - Funding Changes
 - Advancing or delaying a project (subject to financial constraint)
 - Requests for additional funding will be taken during the meetings, and reviewed against funding availability
 - Cost savings at project completion
 - Certain changes may or may not be possible depending on expenditure levels
 - Changes to Implementing Agency

FOCUS AREAS

- ❖ Projects on the 10 Year Milestone Policy List
- ❖ Projects on the Federal Highway Administration (FHWA) Inactive List
- ❖ Projects on the FHWA Preliminary Engineering (PE) Audit List
- ❖ Projects in the Transportation Alternative Program (TAP)
- ❖ Projects requesting to be placed in the first year of the new TIP (FY 2019)

TIMELINE/ACTION TABLE

May-Aug 2017	Meeting with implementing agencies
Jun 2017-Jan 2018	Data input, financial constraint, and analysis
Feb 2018	Draft listings- STTC information
Mar 2018	Draft listings- RTC information Public meetings- draft listings
Apr 2018	Final listings- STTC action
May 2018	Final listings- RTC action
Summer 2018	Final document to TxDOT
Aug 2018	Anticipate TxDOT Commission approval (for STIP)
Oct 2018	Anticipate federal/State approval (STIP)

Questions/Comments?

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2045 DEMOGRAPHIC FORECAST

SURFACE TRANSPORTATION TECHNICAL COMMITTEE
APRIL 28, 2017

BACKGROUND

The demographic forecasts provide a common base for regional planning and resource allocations. The forecasts are widely used by cities, counties, and partner agencies.

- Demographic forecasting process at NCTCOG is a data-driven analytical approach with input/feedback from stakeholders
- Aggregate (region/county) and disaggregate (traffic survey zone) levels
- Current demographic forecast is through the year 2040 and was adopted by the NCTCOG Executive Board in May of 2015

Need for 2045 Demographics

AIR QUALITY CONFORMITY:

- EPA Adequacy on Latest Motor Vehicle Emission Budgets (MVEB)
NO_x = 130.77 tons per day
VOC = 64.91 tons per day
Conformity Deadline = November 23, 2018
- New 2015 Ozone Standard Nonattainment Designations October 2017
Conformity Deadline = Late 2018 – Early 2019

TRANSPORTATION IMPROVEMENT PROGRAM (TIP):

- Inventory 2019-2022 Surface Transportation Projects

METROPOLITAN TRANSPORTATION PLAN (MTP) UPDATE:

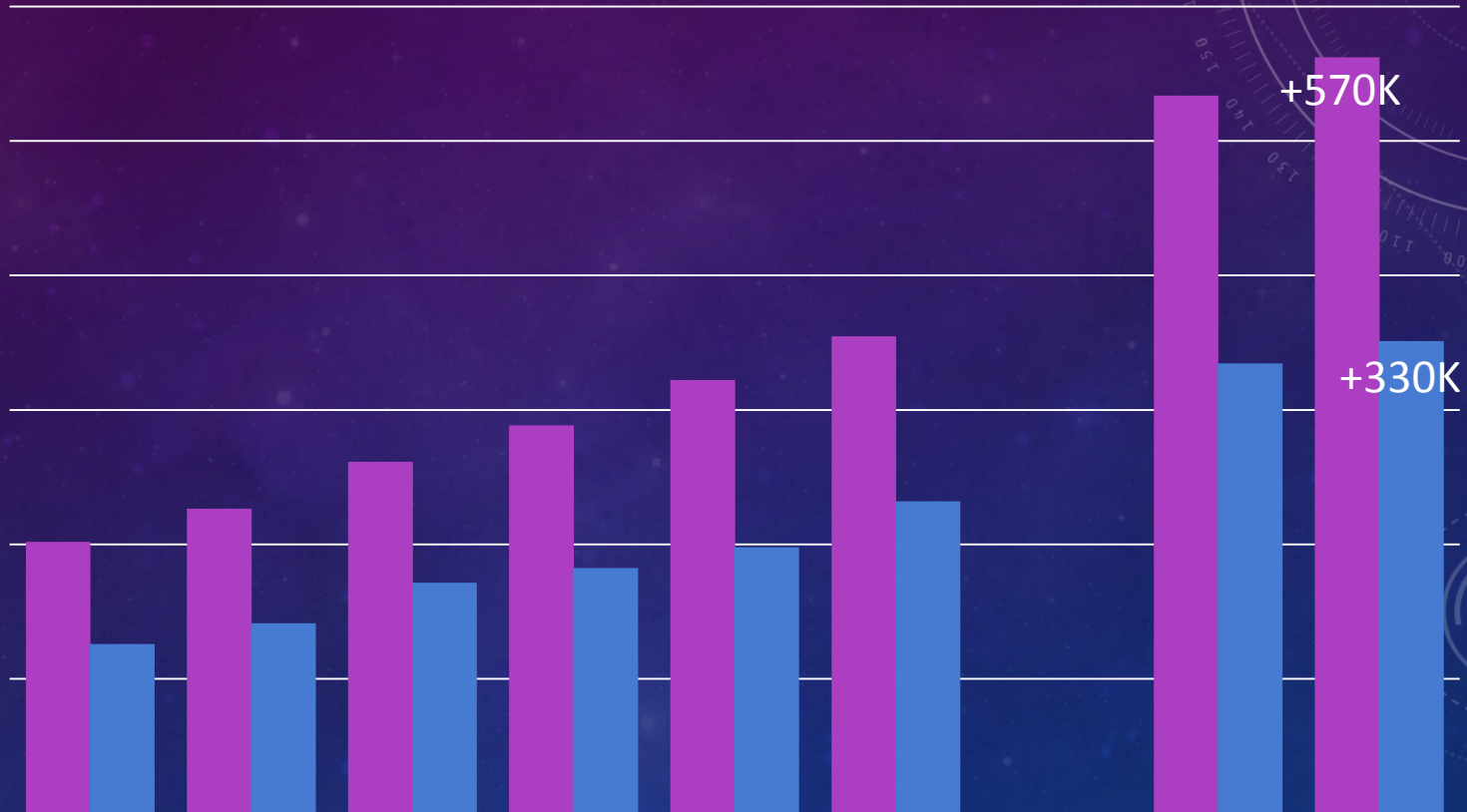
- Incorporate Projects funded from the 85th Texas Legislative Session
- Account for Most Recent Project Development Initiatives, including HB20 10-Year Planning Effort
- Incorporate Modern Day “People Mover” Systems
- Ensure Environmental Documentation Consistency
- Address of New Federal and State Performance Measures

2045 FORECAST METHODOLOGY

BUILD FROM ADOPTED 2040 FORECAST

- Determine 2045 Control Totals
- Growth in each county based on extrapolation of year 2005 through year 2040 trend
- Build and Execute Urbanization Model to 2045
 - Utilize observed LandSat imagery tracking development patterns and vacant land
 - Utilize same Future Land-use Plans as 2040 Forecast
 - Use the current 2040 Forecast footprint to predict 2040 to 2045 change
- Local Government/Agency Review
- Executive Board adopts 5-year extension only

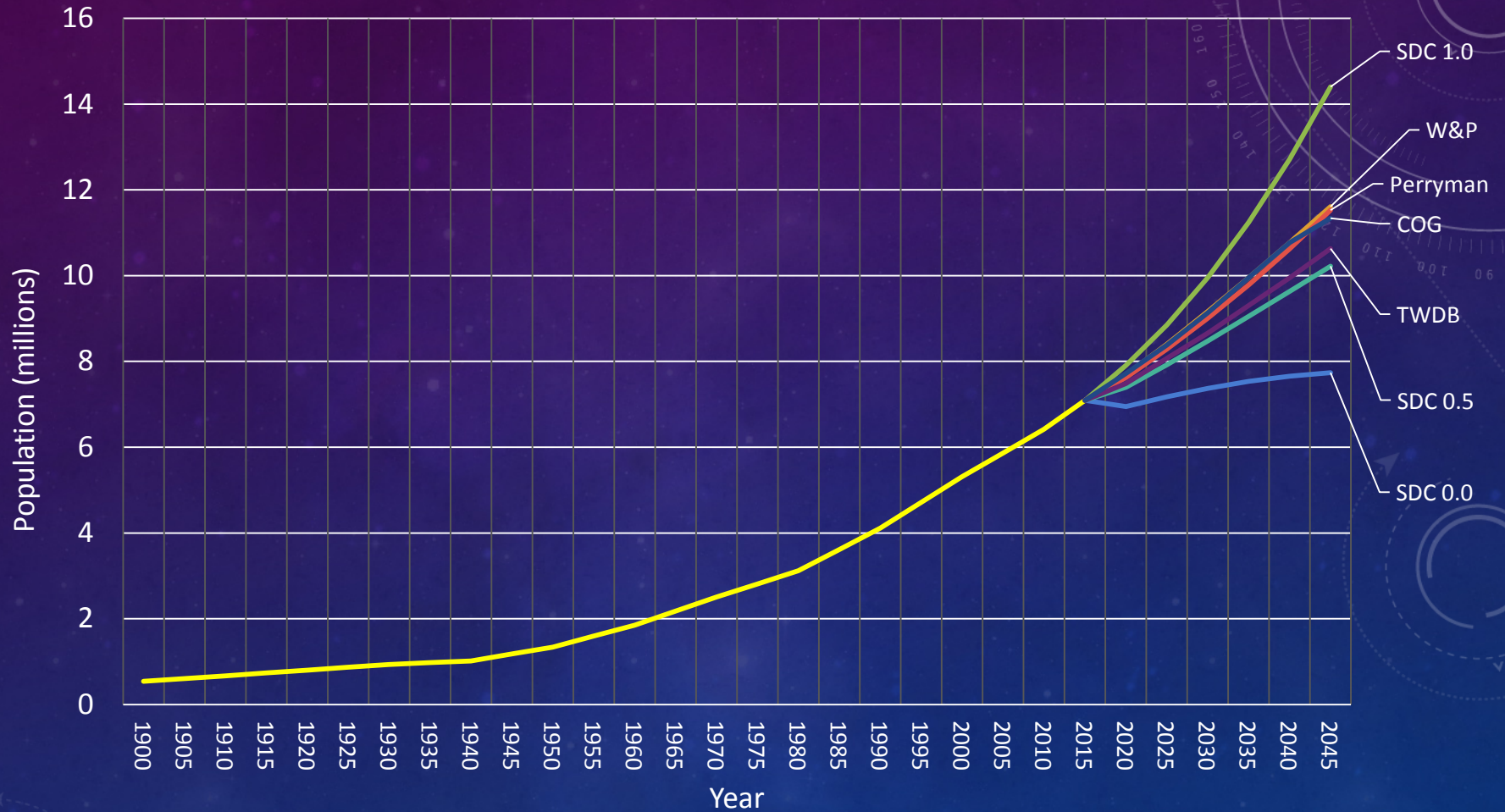
CONTROL TOTALS



	1990	1995	2000	2005	2010	2015		2040	2045
Population	4,038,472	4,530,245	5,228,445	5,768,914	6,444,115	7,094,057		10,676,844	11,246,516
Employment	2,517,529	2,826,373	3,431,605	3,646,652	3,957,470	4,641,364		6,691,449	7,024,214

Note: Historical figures are total population. Projected figures are household population.

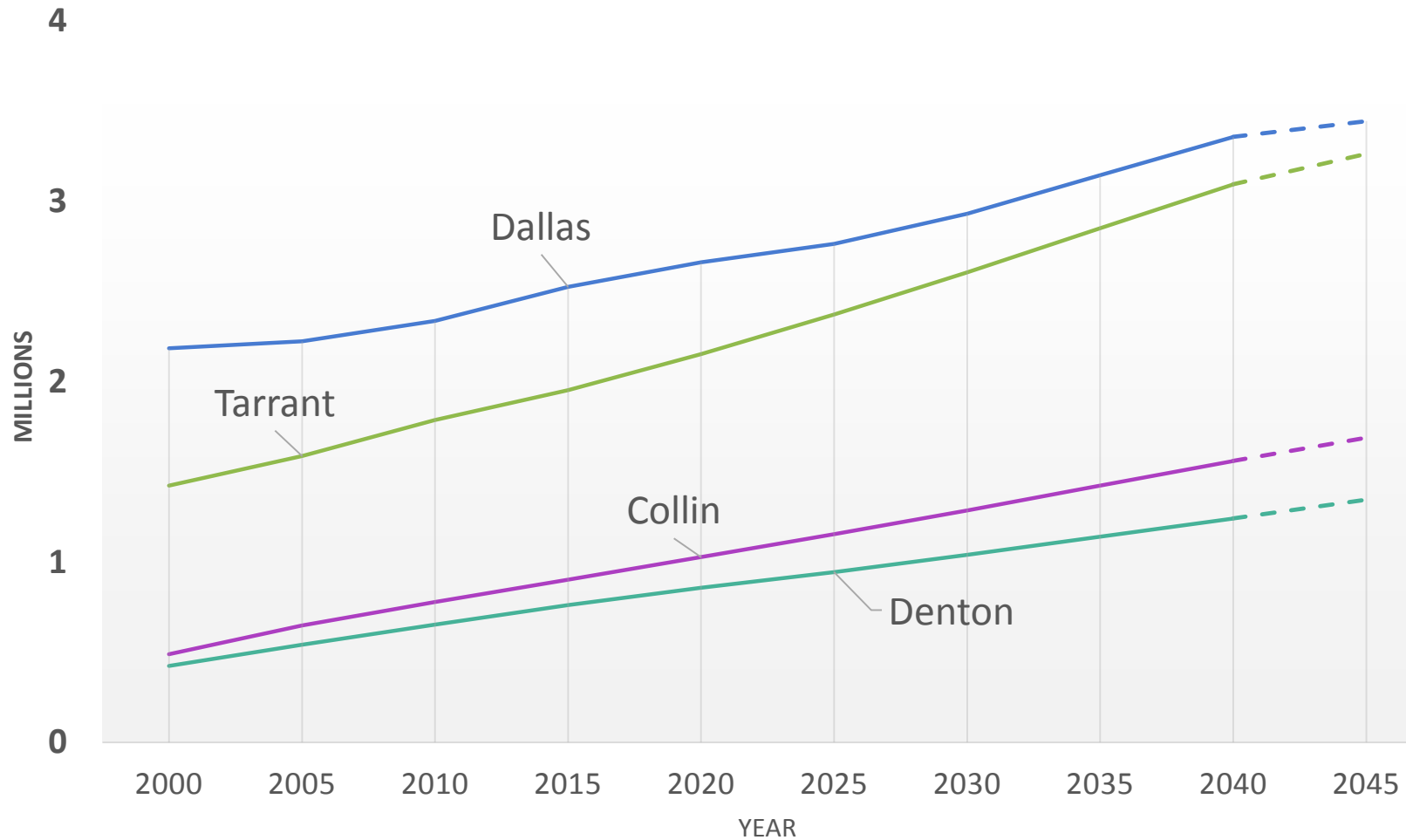
CONTROL TOTALS - POPULATION



COG – North Central Texas Council of Governments
Perryman – The Perryman Group
SDC – Texas State Data Center (State Demographer)

TWDB – Texas Water Development Board
W&P – Woods & Poole Economics, Inc.
1900 – 2015 Data: US Census Bureau, NCTCOG

2045 CORE COUNTY POPULATION GROWTH



2045 COUNTY POPULATION FORECAST

County	2005	2040	2045	2040 - 2045 Change	2040 – 2045 % Change
Collin	647,831	1,560,421	1,689,170	128,749	8.3%
Dallas	2,224,183	3,357,469	3,445,189	87,720	2.6%
Denton	541,622	1,241,681	1,346,314	104,633	8.4%
Ellis	128,123	283,898	300,955	17,057	6.0%
Hood	45,934	81,578	85,739	4,161	5.1%
Hunt	80,978	131,022	134,291	3,269	2.5%
Johnson	138,231	252,521	262,868	10,347	4.1%
Kaufman	86,119	210,097	224,205	14,108	6.7%
Parker	98,950	195,286	206,811	11,525	5.9%
Rockwall	59,578	166,357	181,561	15,204	9.1%
Tarrant	1,587,173	3,094,649	3,263,616	168,967	5.5%
Wise	54,568	101,865	105,796	3,931	3.9%
Total	5,695,295	10,676,844	11,246,516	569,672	5.3%

COUNTY POPULATION GROWTH SHARES

County	2040	2045	2040 - 2045 Growth	Share of 2040 - 2045 Growth
Collin	1,560,421	1,689,170	128,749	22.6%
Dallas	3,357,469	3,445,189	87,720	15.4%
Denton	1,241,681	1,346,314	104,633	18.4%
Ellis	283,898	300,955	17,057	3.0%
Hood	81,578	85,739	4,161	0.7%
Hunt	131,022	134,291	3,269	0.6%
Johnson	252,521	262,868	10,347	1.8%
Kaufman	210,097	224,205	14,108	2.5%
Parker	195,286	206,811	11,525	2.0%
Rockwall	166,357	181,561	15,204	2.7%
Tarrant	3,094,649	3,263,616	168,967	29.7%
Wise	101,865	105,796	3,931	0.7%
MPA	10,676,844	11,246,516	569,672	100.0%

TIMETABLE

- **January-February 2017**
 - Select Control Totals
 - Finalize 2040 to 2045 Urbanization Model
- **March-April 2017**
 - Develop 2045 Forecast
 - Conduct internal review
- **May-June 2017**
 - Local Review
- **July 2017**
 - Incorporate Local Review feedback
- **August 2017**
 - Executive Board Approval

LOCAL REVIEW

- Local input is a critical part of the process
- Modeling process incorporates future plans (gathered in 2013)
- Local review of the output provides additional information that NCTCOG staff can use to refine forecasts
- Review of 2045
 - Builds off existing forecast, so emphasis is on 2040-2045 change
 - NCTCOG will furnish city's share of change for each TSZ

SUPPORTING RESOURCES

- Demographic Data
 - US Census Bureau
 - Texas State Data Center (State Demographer)
 - NCTCOG – Annual Population Estimates
- Employment Data
 - US Bureau of Economic Analysis
 - US Census Bureau
 - NCTCOG – Small-area Estimates Program
- Development/Land Use
 - NCTCOG – Development Monitoring, Land Use Inventories, Ortho Photos, various GIS Data Layers (e.g. water, slope, elevation, roads)
 - US Geological Survey/NASA – Satellite Imagery
 - Local Governments – Comprehensive Plans, Developments, Land Use

2045 FORECAST CONTACTS

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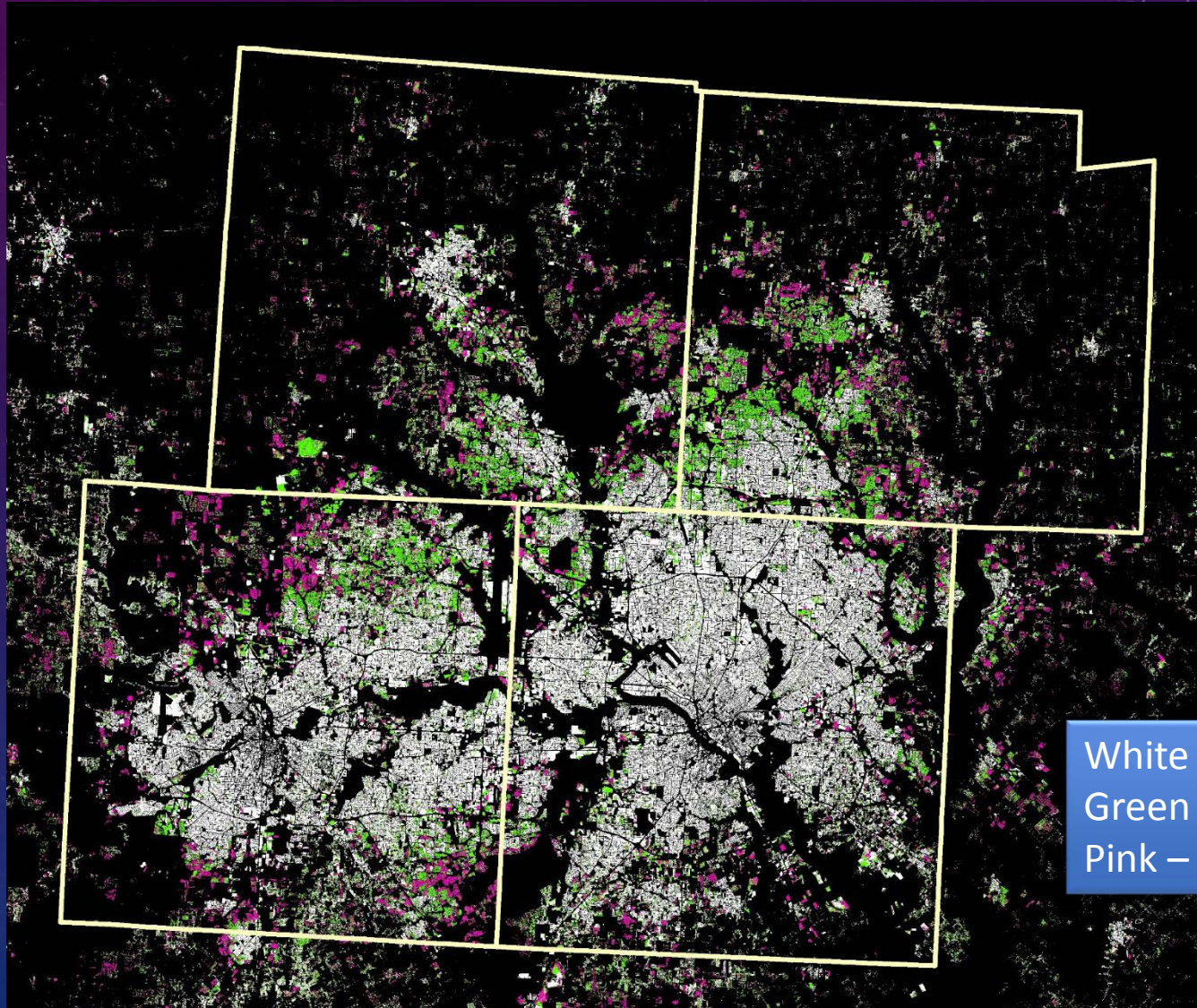
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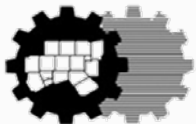
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2045 DEMOGRAPHIC FORECAST



LEGISLATIVE UPDATE

**Surface Transportation Technical Committee
April 28, 2017**



**Rebekah Hernandez
North Central Texas Council of Governments**

Upcoming Dates of Interest

May 8 – Last Day for House Committees to Report House Bills

May 11 – Last Day for House to Consider House Bills on 2nd Reading

May 20 – Last Day for House Committees to Report Senate Bills

May 29 – Last Day of Session, Sine Die

June 18 – Last Day Governor Can Veto Bills

State Budget

SB 1 General Appropriations Bill, Passed Both Chambers,
Conference Committee Announced

SENATE PASSED SB 1

\$217.7B in All Funds

\$106.3B in State Spending

\$28.4B Total TxDOT

Delays \$2.5B Proposition 7
Transfer

Includes HSR Rider

\$71M/year for TERP

HOUSE PASSED SB 1

\$218.2B in All Funds

\$106.8B in State Spending

\$28.4B Total TxDOT

Uses Rainy Day Fund for Other
Purposes (Not Transportation)

No HSR Rider

\$118M/year for TERP

Air Quality

LIRAP/LIP

- **HB 2321** Modernizes, Adds Flexibility to LIRAP/LIP – Full House Approved 4/27/17 (SB 2003)
- **HB 402** Expands LIP projects; 90% of Funds Generated Returned to County (applies to Harris Co.) – Passed House 4/6/17

Emissions

- **HB 2568, 2569** Limits or Eliminates the Motor Vehicle Emissions Inspection – Passed House Committee 4/27/17, Pending 4/18/17

TERP

- **SB 26** Updates TERP, Extends Expiration Date – Senate Approved 3/14/17, Referred to House Committee 4/18/17

High-Speed Rail

- **SB 977** Prohibits State Money for Private HSR; Senate Approved 4/18/17
- **SB 979** Property Owner Repurchase Property if Not Used for HSR; Senate Approved 4/18/17
- **SB 981** Compatibility of HSR Train Technology; on Senate Intent Calendar

SB 975 Security Requirements for HSR; Senate Approved 4/24/17

SB 980 Prohibits State Funds for HSR Unless Lien Secures Repayment; Committee Approved 4/10/17

HB 3440 Interim Committee on HSR Development; Pending in Committee 4/12/17

CDAs

HB 2861

Statewide CDA Bill

- IH 30 From IH 35W to East of Fielder Rd.
- IH 635E From U.S. Highway 75 to IH 30
- IH 35E From IH 635 to U.S. Highway 380
- Plus Others Throughout the State

Passed House Transportation Committee 4/20/17,
Reported From Committee 4/27/17

Transit

SB 385

Requires Voter Approval of Local Acceptance and Use of Federal Funds for Commuter Rail Projects, and to Include In Transportation Plan

Passed Senate Committee, First Placed on Senate Intent Calendar 3/28/17, Placed on Senate Calendar for 5/1/17

Additional Topics of Interest

Safety

- **SB 1588** Ending Safety Inspection – Approved in Senate Committee 4/27/17
- **SB 88** Prohibiting Red Light Cameras – Passed Full Senate 3/29/17
- **HB 62** Texting while Driving – Passed Full House 3/16/17

Automated Vehicles

- **SB 2205** Research/Testing of Automated Vehicle Driving Systems, Passed House Floor 4/27/17

TxDOT Sunset Bill

- **SB 312** Passed Senate, Left Pending in House Committee 4/26/17

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High-Speed Rail Station Planning Update

Surface Transportation Technical Committee

April 28, 2017

Kevin Feldt



DFW Core Express Service

Current NCTCOG Efforts

Investigating Alignment Alternatives

Assisting in Environmental Process Completion

Local Governance Entity

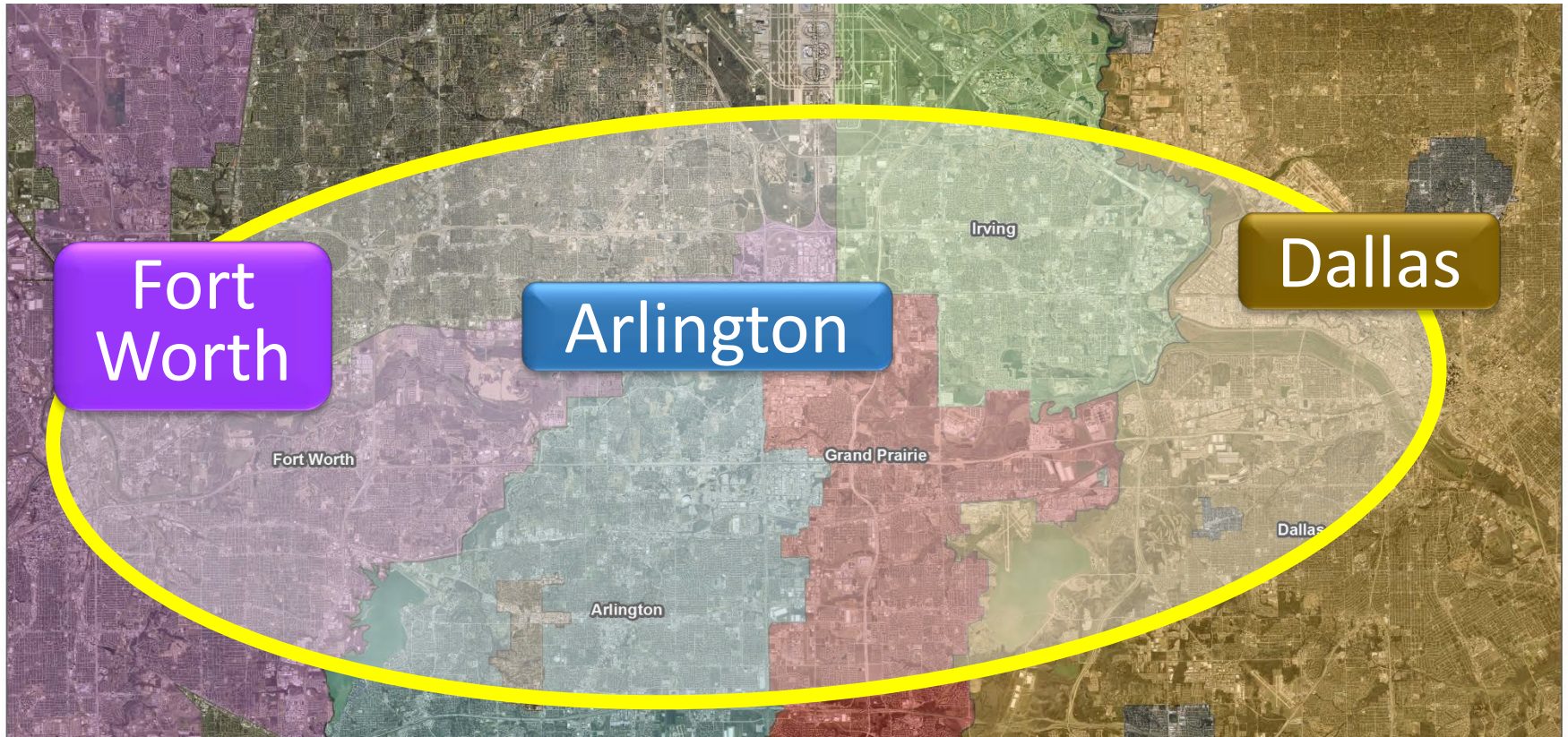
Three Station Area Planning Studies



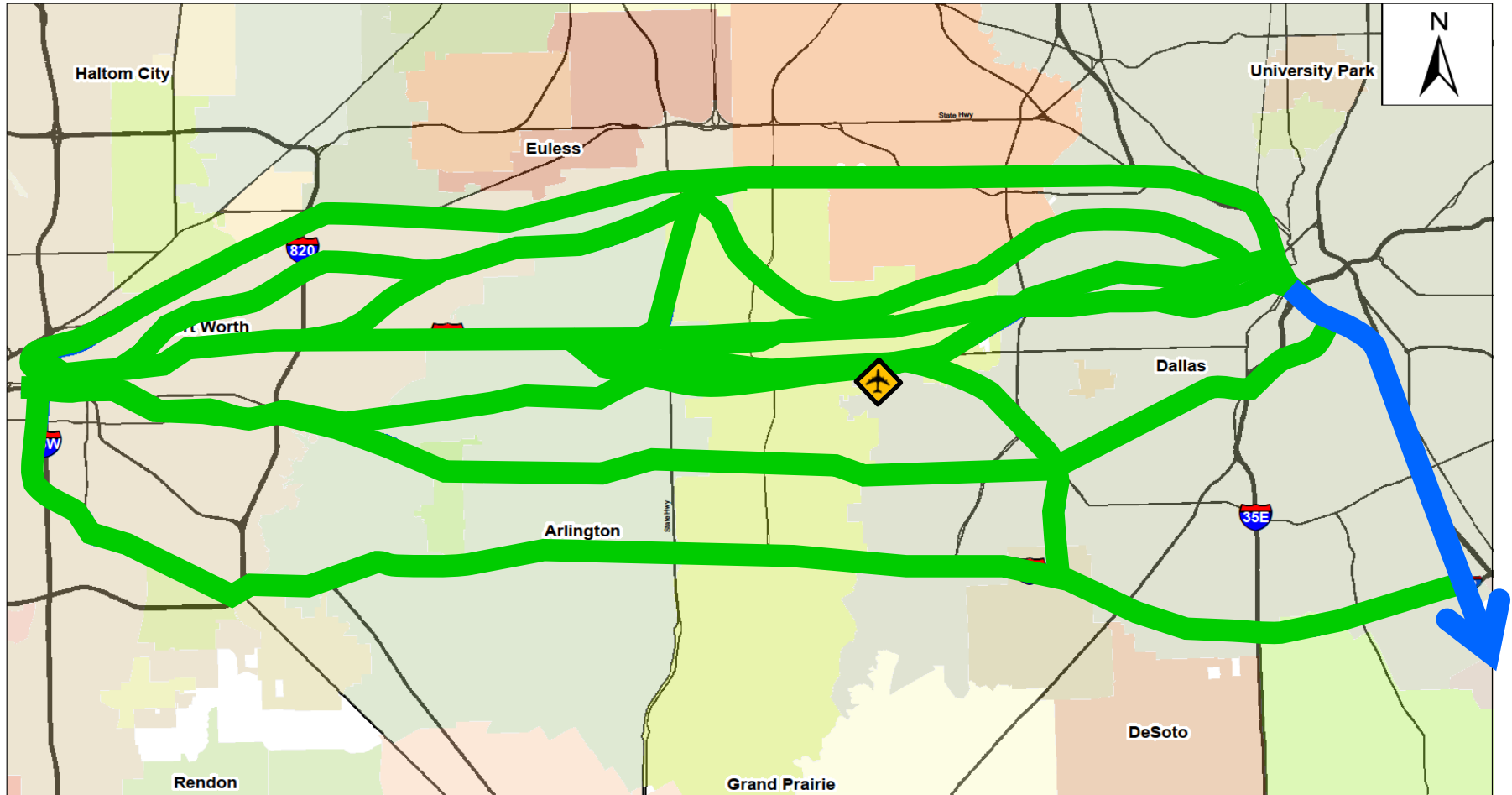
NCTCOG Role

Identify Best Alignment

Coordinate with Consultants on Best Station Location



Alignment Corridors Analyzed

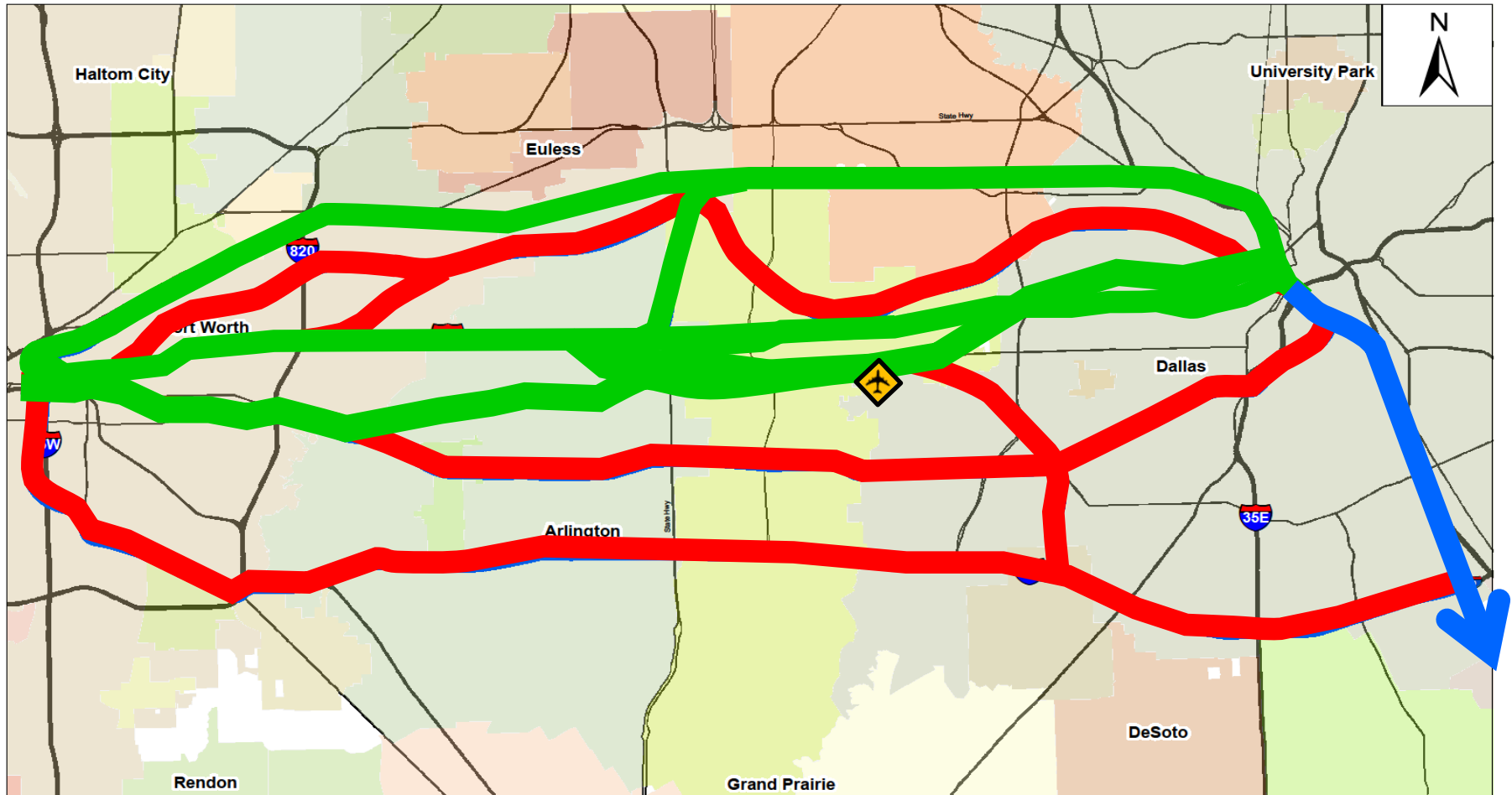


0 1¼ 2½ 5
Miles
1 in = 1.65 miles

Legend

- Texas Central HSR
- Potential HSR Alignments
- Interstate Highway
- US Highway
- State Highway
- Tollway

Candidate Corridors



0 1¼ 2½ 5
Miles
1 in = 1.65 miles

Legend

- Texas Central HSR
- Potential HSR Alignments
- Interstate Highway
- US Highway
- State Highway
- Tollway

Analysis Criteria

Corridor Length

Percent on or Adjacent to Transportation Facility

Percent Adjacent to Residential

Public Facilities Affected within 100 Feet

Percent Above 125 Miles Per Hour

Adjacent to Former Joint Naval Air Station

Meets One-Seat Ride Policy

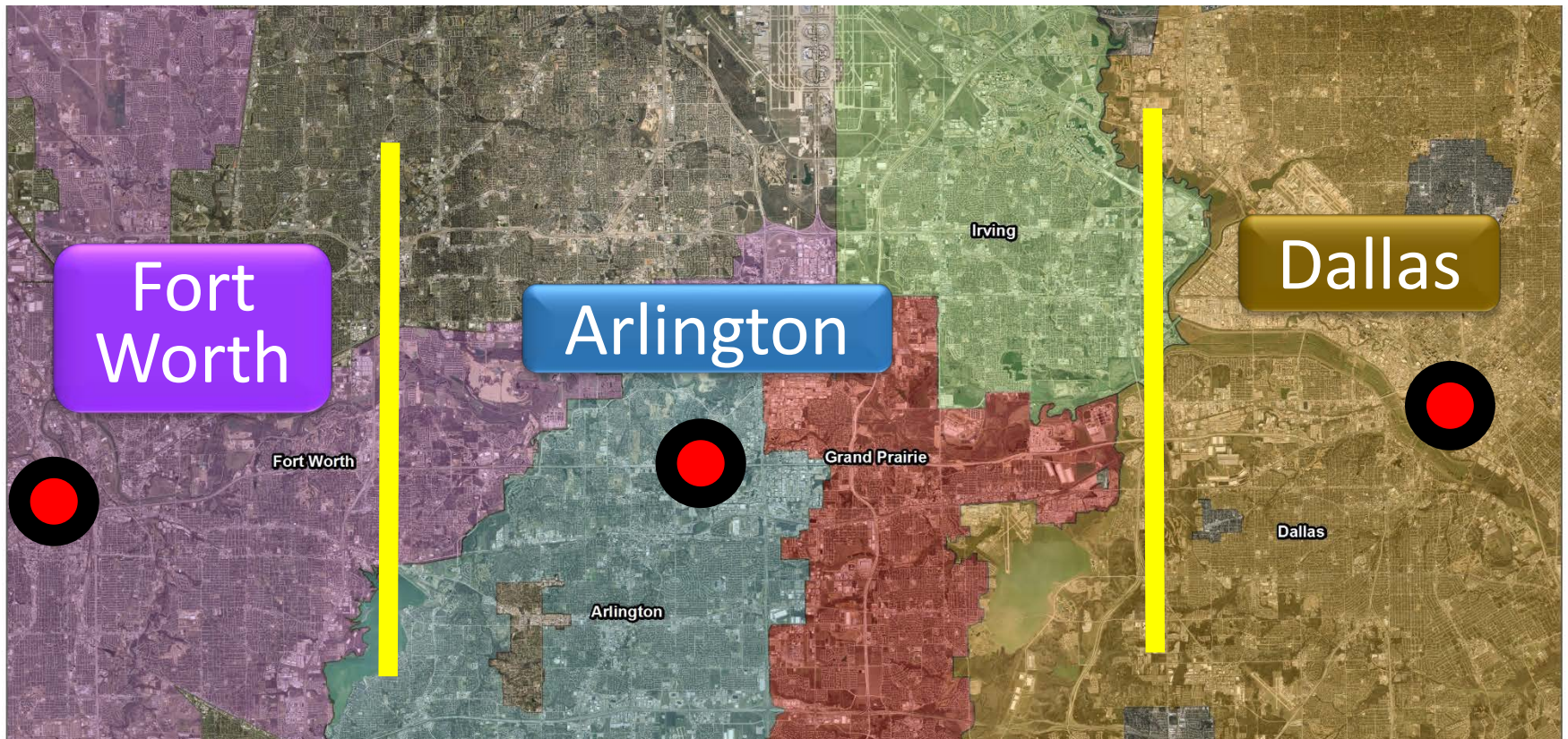
Meets Three-Station Policy



Consultant Role

Identify Best Station Location

Coordinate with NCTCOG on Best Alignment



Arlington Station Area Study

Study Conducted for the City of Arlington

Current Study Efforts

Analyzing Possible Station Locations

Completed Stakeholder Input Meetings

City of Arlington and Tarrant County Elected Officials

Property Owners/Developers

Arlington Business Leaders

FWTA and DART

Coordinating with NCTCOG Alignment Analysis Efforts

Completion Expected July 1



Arlington Station Location Criteria

Complimentary Land Uses

Private Sector Participation

Joint Development Opportunities

Site Visibility

Nearby Parking Availability

Ease of Acquisition

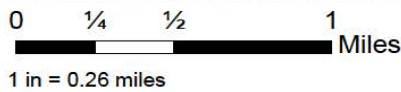
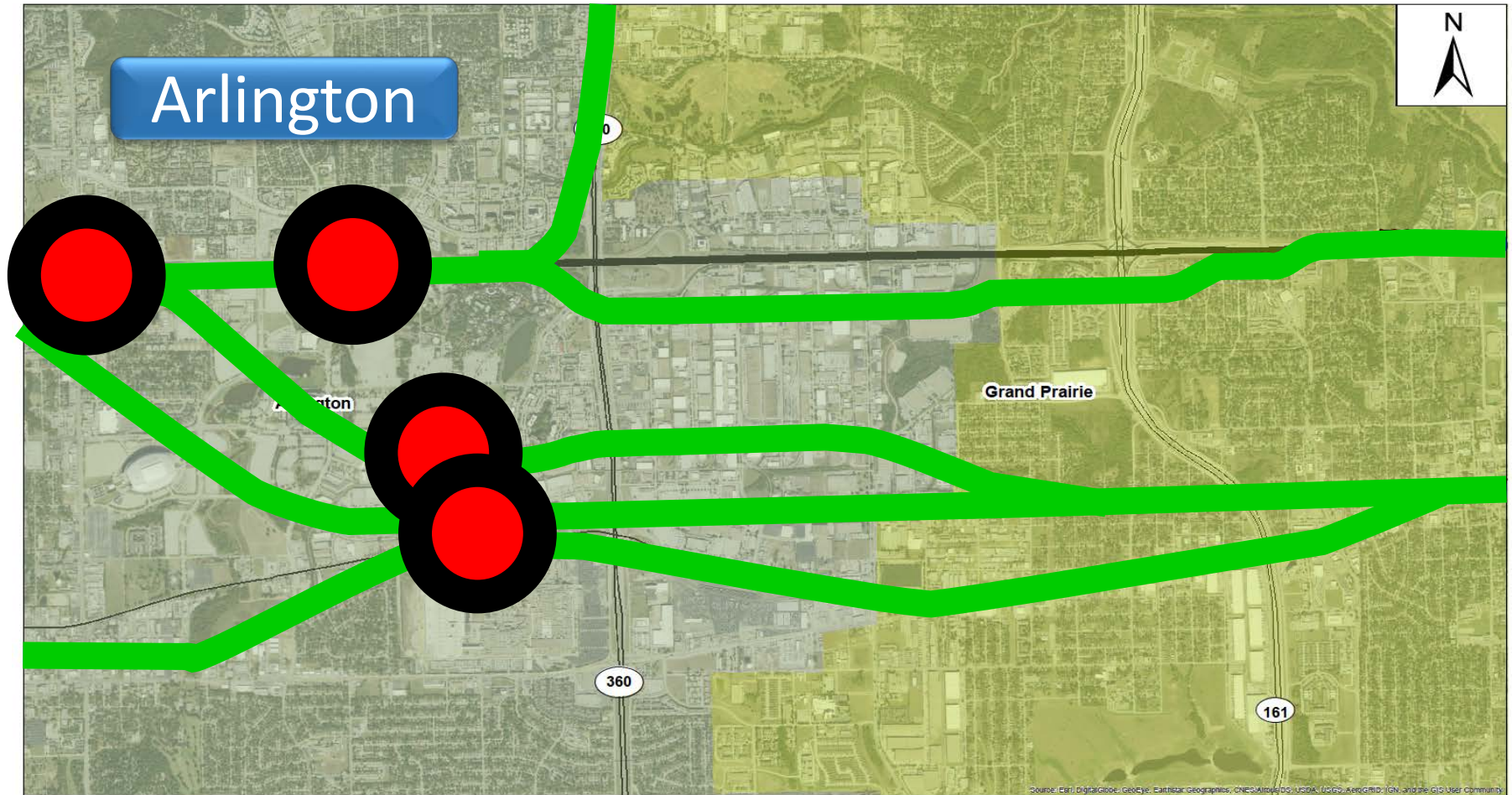
Alignment

Existing ROW?

Impacts to Existing Land Uses



Potential Arlington Station Areas



Legend

- MergeHSR7AlignmentsFullExtent21617
- Interstate Highway
- US Highway
- State Highway
- Tollway

Fort Worth Station Area

Study Conducted for the City of Fort Worth
Study Efforts



Analyzing Possible Station Locations

Completed Stakeholder Input Meetings

City of Fort Worth and Tarrant County Elected Officials

Fort Worth Housing Solutions (Butler)

Sundance Square and Downtown Business Leaders

FWTA

Coordinating with NCTCOG Alignment Analysis Efforts

Completion Expected July 1



Fort Worth Station Location Criteria

Alignment Options

Land Availability and Ownership

Existing Infrastructure Compatibility

Environmental Justice

Station Area Context

Public Plan Consistency

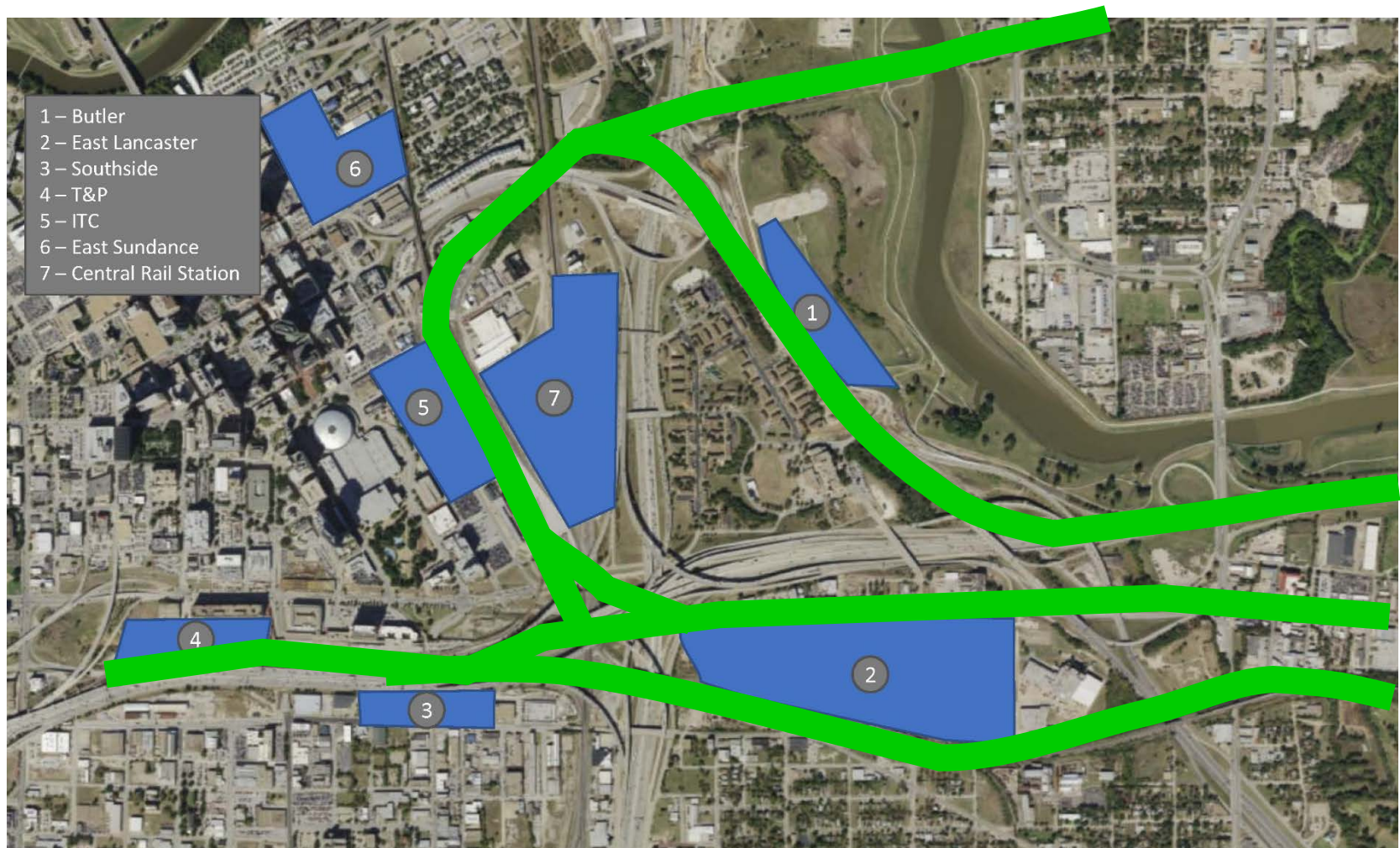
Partnership Potential

Economic Development Opportunities

Mobility Plan Policies and Recommendations



Potential Fort Worth Station Areas



Next Steps

Continue Coordination with Local Governments

NCTCOG to Complete Alignment Study

Complete Analysis

Develop Recommendations

Present Recommendations



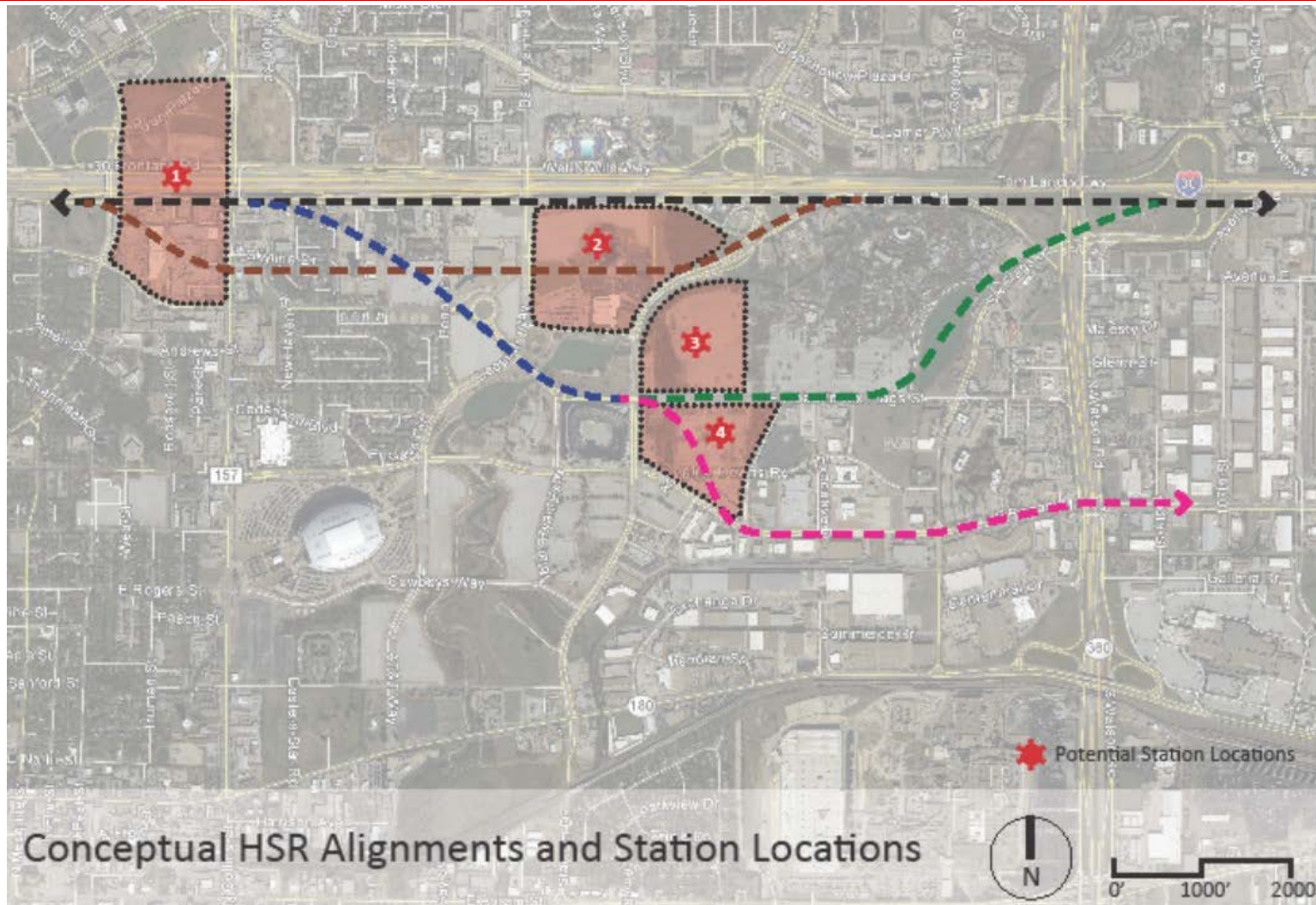
Questions?

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Potential Arlington Station Areas



Mobility 45

Surface Transportation Technical Committee
April 28, 2017

Kevin Feldt



Important Dates

Action	Mobility 2040	Mobility 45	Mobility 45 Amendment
RTC Adoption	March 9, 2016	June 14, 2018	~ June 2020
Conformity Determination	November 23, 2016	*November 23, 2018	~ November 2020
Comments	Additional funding Policy bundle emphasis	Take advantage of required conformity New performance measures Emerging Technologies and trends	TBD

* Expected date based on previous determination



Why New Mobility Plan?

New AQ Budgets Found Adequate 11/23/2016

Must Have Conformity Determination Using New Budgets Within 2 Years (11/23/2018)

Best to Restart 4-Year Mobility Plan Clock Simultaneously



New Mobility Plan

New Base Year – 2018

New Horizon Year – 2045

➔ Air Quality (AQ) Conformity Determination

November 23, 2018 (Deadline)

Environmental Documentation Consistency

Consistency with 10-Year Plan

FAST Act Requirements

85th Texas Legislative Session Outcomes



New Features

Revenue Forecast

➔ 2045 Demographics

Federal and State Performance Measures

Updated Policies, Programs, and Projects



Mobility 2045

Will Include Projects Requiring Federal or State Funds Through 2021

On- and Off-System Projects Using Federal or State Funds – Coordinate with TxDOT



Emerging Technologies

Automated Vehicle Implementation

Data Sharing

“For Hire” Private Transportation Role

Modern “People Movers”

Shared Vehicles – Flying and Otherwise



Freight

New Federal Funding Sources (FAST Act)

Critical Freight Corridors

Consistency with TxDOT Freight Plan

- Highway Projects
- Multimodal Projects

Regional HAZMAT Routes




NCTCOG Coordination

TxDOT

- Dallas, Tarrant, Paris Districts
- Central Office

Transportation Authorities

- NTTA
- FWTA, DCTA, DART
- Small Transit Providers

 Local Governments
Public



Parallel Activities

2019-2022 TIP

Air Quality Conformity



2019-2022 TIP

Transportation Improvement Program (TIP)

Federal and State Mandated Inventory of Transportation Projects

Contains Projects Funded with Local, State, and Federal Funding Sources

Covers Four Years of Available Funding

Updated on a Quarterly Basis

Re-Developed Every Two Years

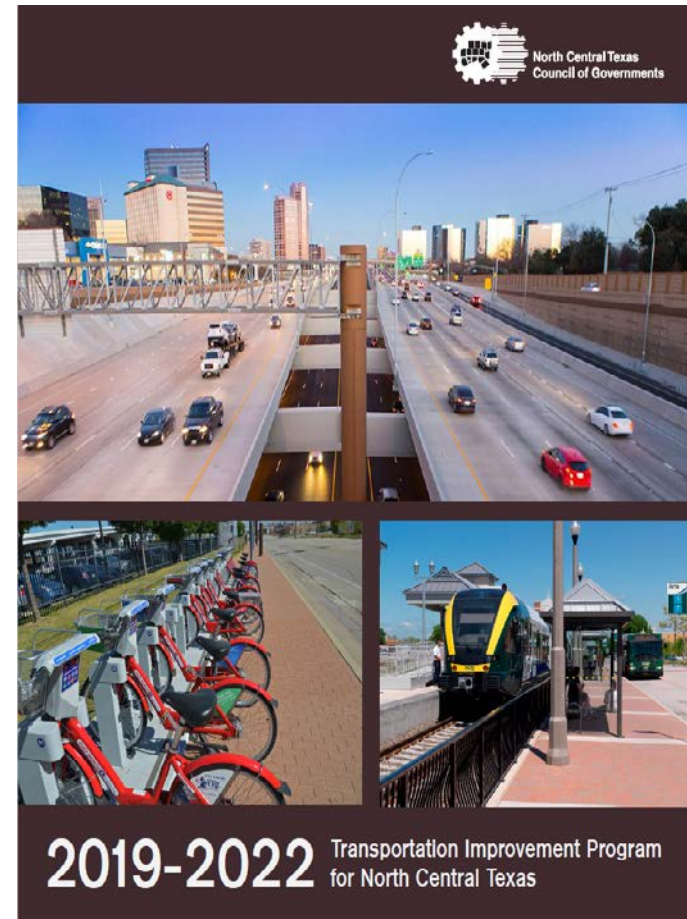
➔ The TIP Must be Consistent With the MTP

➔ The TIP Funds the First 4 Years of the MTP



TIP Development Process

1. Review all Existing Projects and Solicit Additional Locally Funded Projects
2. Make Needed Adjustments to Existing Projects (Staging, Funding, Scope)
3. Develop Revised Project Listings
4. Balance Project Listings to Estimated Revenue
5. Conduct Mobility Plan and Air Quality Review
6. Solicit Public Review (Process, Draft Listings, Final Listings)
7. Finalize Project Listings and Submit to Partners



TIP Timeline

May – August 2017	Meet with Implementing Agencies
June 2017 – Jan. 2018	Data Input, Fiscal Constraint, Analysis
➔ February 2018	STTC and RTC Information – Draft Listings
March 2018	Public Meetings – Draft Listings
➔ April 2018	STTC Action – Final Listings
May 2018	RTC Action – Final Listings
Summer 2018	Final Document to TxDOT
August 2018	Anticipate TxDOT Commission Approval for Statewide TIP (STIP)
October 2018	Anticipate Federal/State Approval (STIP)



Air Quality (AQ) Conformity

Analysis Years

- 2018 (base year)
- New 2015 Ozone NAAQS Attainment Year:
(Designation/Classification Announced October 2017)
 - 2021 (if classified “marginal”) or
 - 2024 (if classified “moderate”)
- 2027
- 2037
- 2045 (horizon year for MTP)



Schedule

Milestone	Date
Partner Project Revision Deadline	August 31, 2017
Mobility 2045 Draft	April 1, 2018
Public Involvement	April 9, 2018
2019-2022 TIP (STTC Action)	April 27, 2018
2019-2022 TIP (RTC Action)	May 10, 2018
Mobility 2045 and AQ Conformity (STTC Action)	May 25, 2018
Mobility 2045 and AQ Conformity (RTC Action)	June 14, 2018
Air Quality Conformity DOT Determination Deadline	November 23, 2018



Next Steps

Public Meetings

- May 9 – Richardson
- May 10 – NCTCOG
- May 15 – North Richland Hills

RTC Kick-off

- May 11

Conformity Pre-Analysis Conference Call

- May 18

Transportation Partner Project Submittal Training



Questions?

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FLEETS FOR THE FUTURE UPDATE AND BOOTCAMP INVITATION

Surface Transportation and Technical Committee

April 28, 2017



**North Central Texas
Council of Governments**



**Dallas-Fort Worth
CLEAN CITIES**

Project Overview

Focuses on reducing the incremental costs of alternative fuel vehicles (AFVs) and supporting infrastructure.



National Partnership



- Mid-America Regional Council (MARC)**
 - Greater Kansas City: 1.8 million
 - Mo. and Kan. bi-state: 8.842 million
- Metropolitan Washington COG (MWCOCG)**
 - District of Columbia: 4.7 million
 - Suburban Md., northern Va.: 14.376 million
- Metropolitan Area Planning Council (MAPC)**
 - Greater Boston: 4.732 million
 - Mass. 6.547 million
- North Central Texas Council of Governments (NCTCOG)**
 - Dallas-Fort Worth: 6.603 million
 - Texas: 25.145 million
- Pima Association of Governments (PAG)**
 - Tucson: 980,263
 - Ariz.: 6.392 million
- Clean Cities Coalition outreach areas:**
 - New York, Ohio, Utah, Washington

Considerations of AFV Deployment

Advantages

Total Cost of
Ownership
Approach

Importance of
Maintenance
Costs

Sustainability
Initiatives

Return on
Investment

High
Utilization
Rates

Lower Fuel
Prices

Feasibility

Use of Central
Parking
Facilities

Route
Predictability



Regional Cooperative Procurement

Focusing on local public fleets

Organizing the cooperative procurement of select vehicles to obtain volume discounts that fleets could not access individually

Releasing a vehicle bid Request for Proposals (RFP) to confirm vehicle specs with unique tiered-volume pricing

Executing Summer-Fall 2017

Regional Cooperative Procurement

Anticipated Vehicles



Propane Vehicles



Electric Vehicles (EV)

Plug-In Hybrid Electric Vehicles (PHEV)



Natural Gas Vehicles

Both Light-Duty and Heavy-Duty Options Available

Regional Cooperative Procurement

Anticipated Process

Fleet signs “soft commitment”
with NCTCOG

Summer 2017



NCTCOG pools vehicle purchase commitments
from participating fleets

Late
September 2017



NCTCOG procures vehicles through vehicle bid
contract to obtain volume discounts

October 2017



Each participating fleet coordinates directly
with vendor for purchase order

November 2017

Regional Cooperative Procurement

How to Get Involved

Attend Our Fleets for the Future Bootcamp

When: **May 24, 2017** from 10 am - 2 pm

Where: North Central Texas Council of Governments (NCTCOG) in Arlington



**Lunch will
be provided!**

RSVP to bmuller@nctcog.org or (817)695-9299 by May 17

Regional Cooperative Procurement

How to Get Involved

Action Steps:

- 1. Share Opportunity with Procurement and Fleet Staff**
- 2. Evaluate Fleet Possibilities and Budget for Fiscal Year 2018**
- 3. Complete the Soft Commitment Form**





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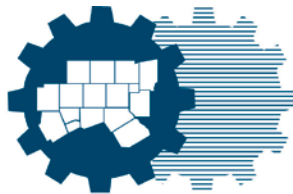
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**North Central Texas
Council of Governments**



**Dallas-Fort Worth
CLEAN CITIES**



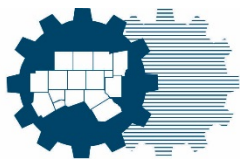
Acknowledgment: This material is based upon work supported by the Department of Energy, Office of Energy Efficiency and Renewable Energy (EERE), under Award Number DE-0007462.

CLEAN AIR ACTION DAY

JUNE 23, 2017

Surface Transportation Technical Committee

Whitney Vandiver, Communications Coordinator



**North Central Texas
Council of Governments**

April 28, 2017

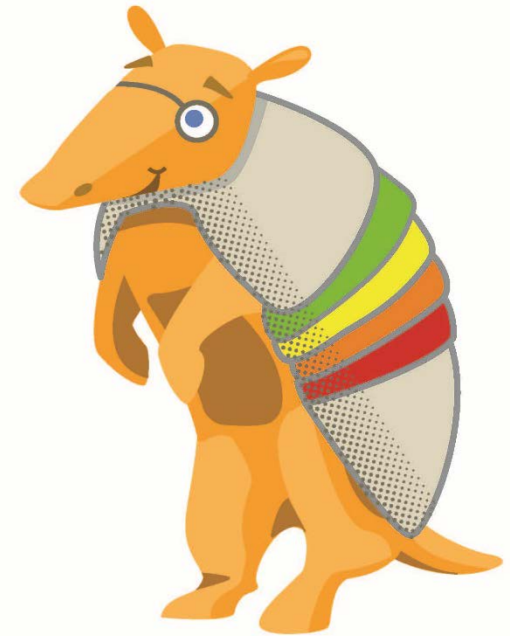


What is Air North Texas?



A public awareness campaign that encourages residents of North Texas to make clean air choices

Composed of a coalition of regional organizations committed to improving the air in North Texas



Air North Texas aims to generate a consistent region-wide brand that promotes behavioral and lifestyle changes that impacts our health and the environment

Challenge Actions



Do at least one thing to help improve air quality on Friday, June 23, 2017

Example actions are:

- Carpool
- Take lunch to work
- Use mass transit
- Bike or walk
- Combine errands
- Telecommute
- Avoid idling
- Maintain vehicle



More at www.airnorthtexas.org/cleanairactionday

How STTC Members Can Participate on June 23



Carpool to the June STTC meeting

Join the June STTC meeting remotely instead of attending in person (more details to come)

Become an Air North Texas partner and bring signed partner agreement to June 23 STTC meeting or submit to airnorthtexas@nctcog.org

Implement a Clean Air Action Day Challenge at your organization

Challenge Overview



Challenge each department within your organization to participate in Clean Air Action Day

The department within your organization with the highest percentage of participation will be recognized

Organization with the highest participation will receive recognition

Challenge Implementation



Notify Air North Texas staff that you will be implementing a challenge at your organization by June 5, 2017, with the following information:

- Organization/entity
- Challenge contact person
- Number of departments
- Number of employees
- Brief description of your challenge to be implemented
- Rewards you plan to provide

You may request Clean Air Action Day Challenge artwork, materials, template notification email, etc. from Air North Texas staff at airnorthtexas@nctcog.org.

Additional details for challenge implementation will be provided through email.

Air North Texas 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 District
 TxDOT – Fort Worth District
 U.S. Green Building Council
 – North Texas Chapter
 University of North Texas
 Health Science Center
 University of Texas at
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 UT Southwestern
 The-T

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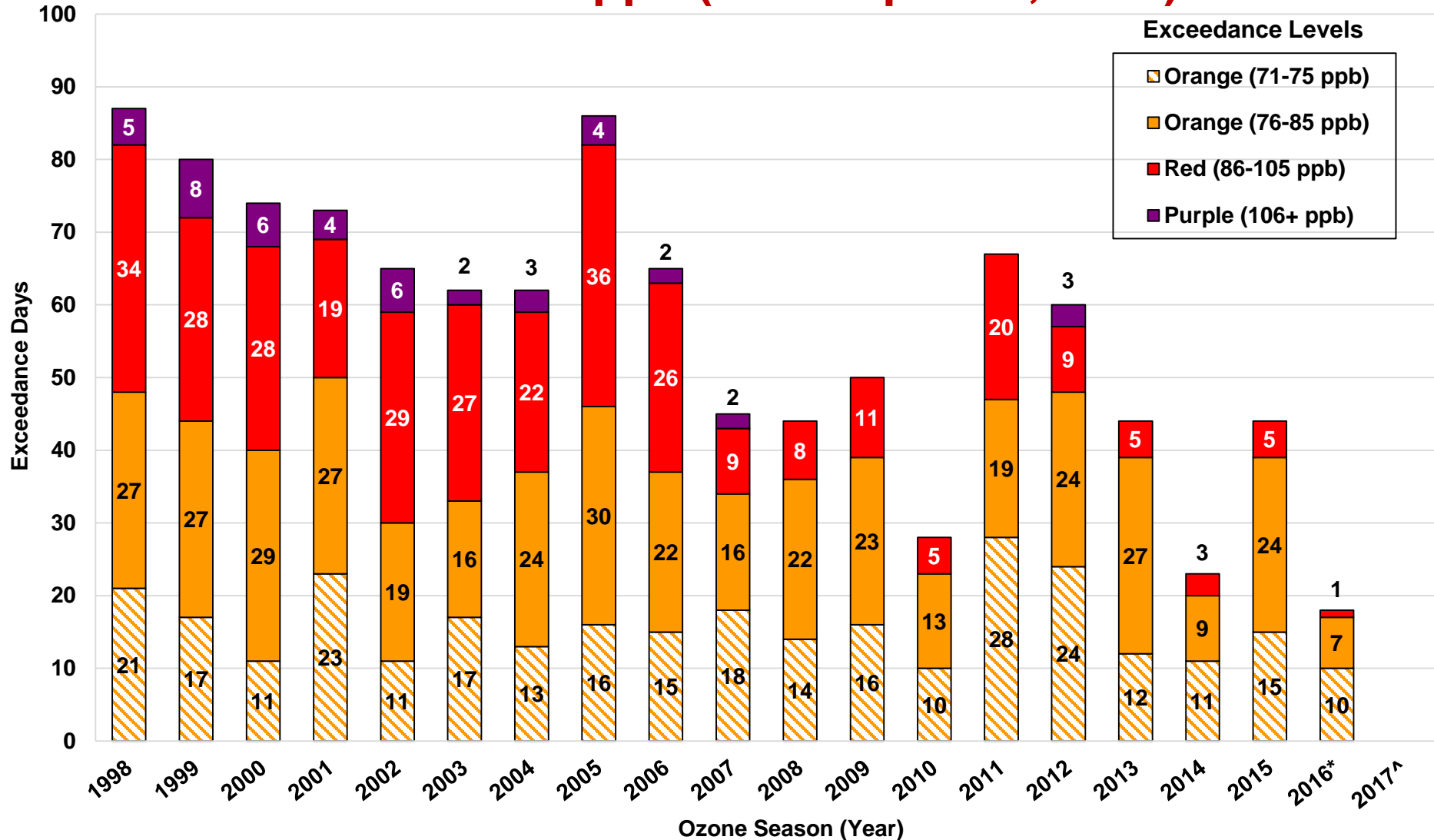
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EIGHT-HOUR OZONE HISTORICAL TRENDS

Based on ≤ 70 ppb (As of April 27, 2017)



Exceedance Levels

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

Ozone Season (Year)

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.

= Additional level orange exceedance days under the revised standard that were not exceedances under the previous 75 ppb standard. (AQI level orange = 71-75 ppb)

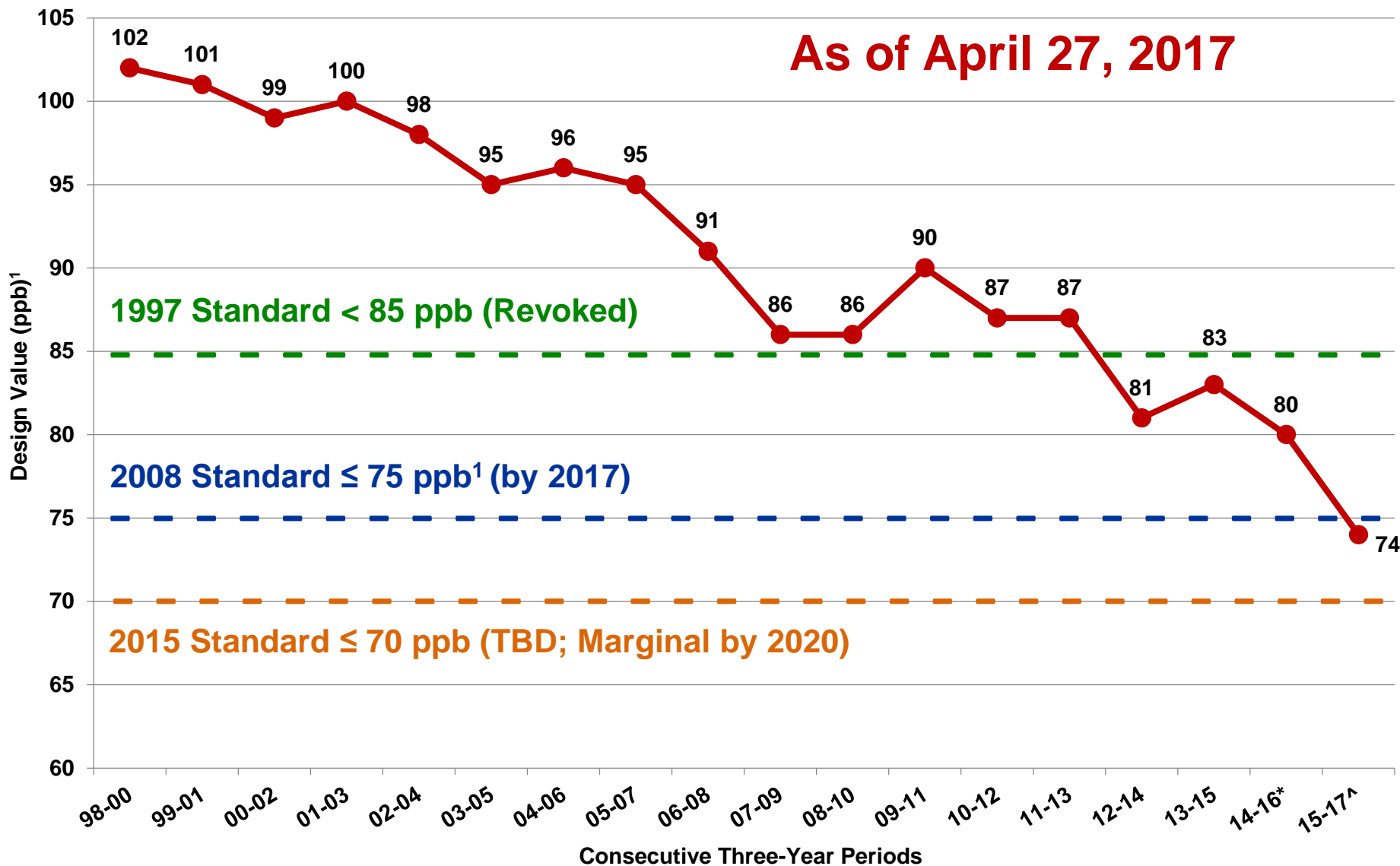
*Data not certified by TCEQ.

^Not a full year of data.

Source: TCEQ, http://www.tceq.state.tx.us/cgi-bin/compliance/monops/8hr_monthly.pl
ppb = parts per billion

EIGHT-HOUR OZONE HISTORICAL TRENDS

As of April 27, 2017



¹Attainment 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).

*Data not certified by the Texas Commission on Environmental Quality.

^Not a full year of data.