

# Regional Transportation Council Transit Call for Projects

**Surface Transportation Technical Committee  
September 22, 2017**

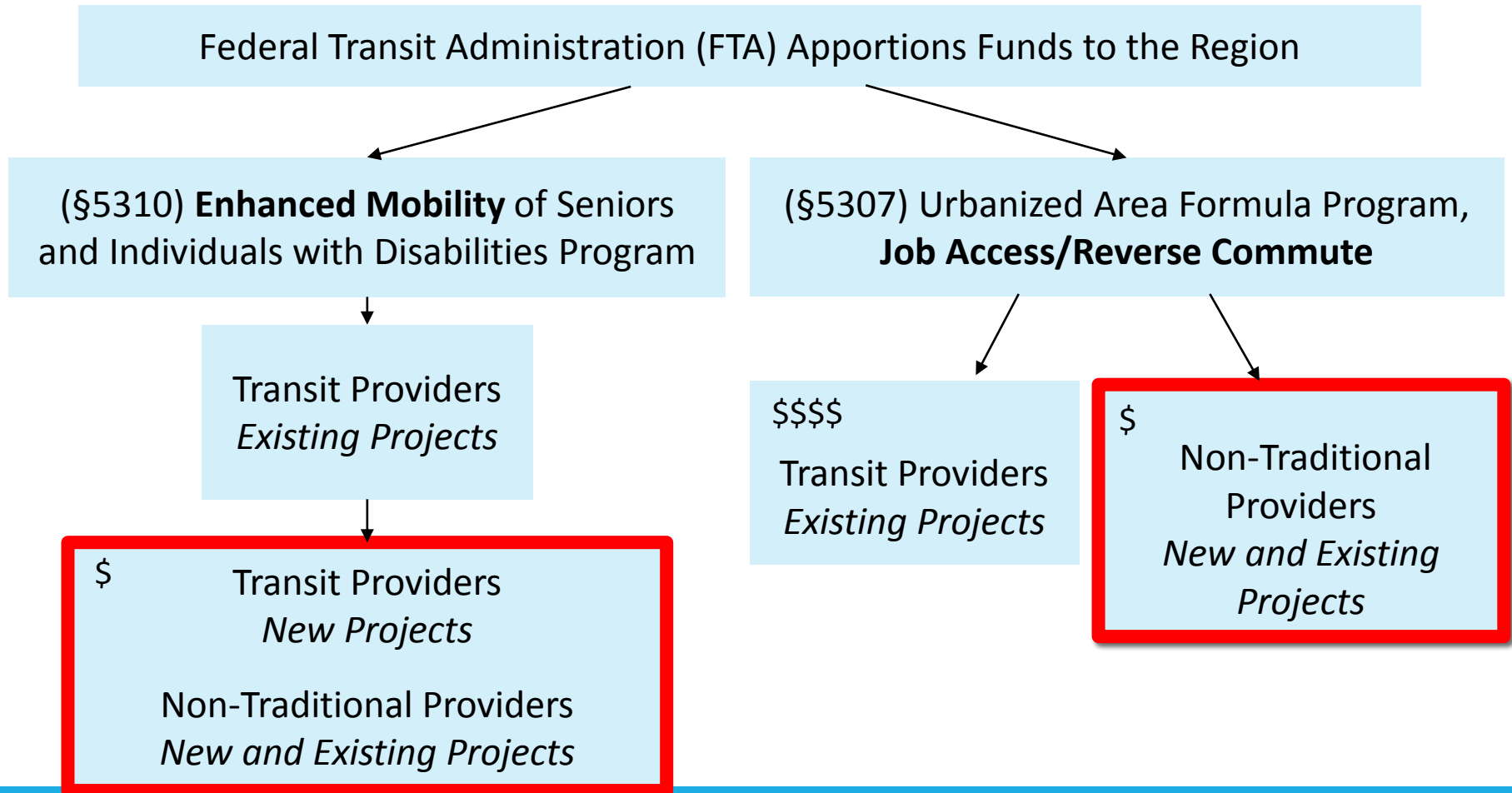
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ACTION: DRAFT PROJECT RECOMMENDATIONS

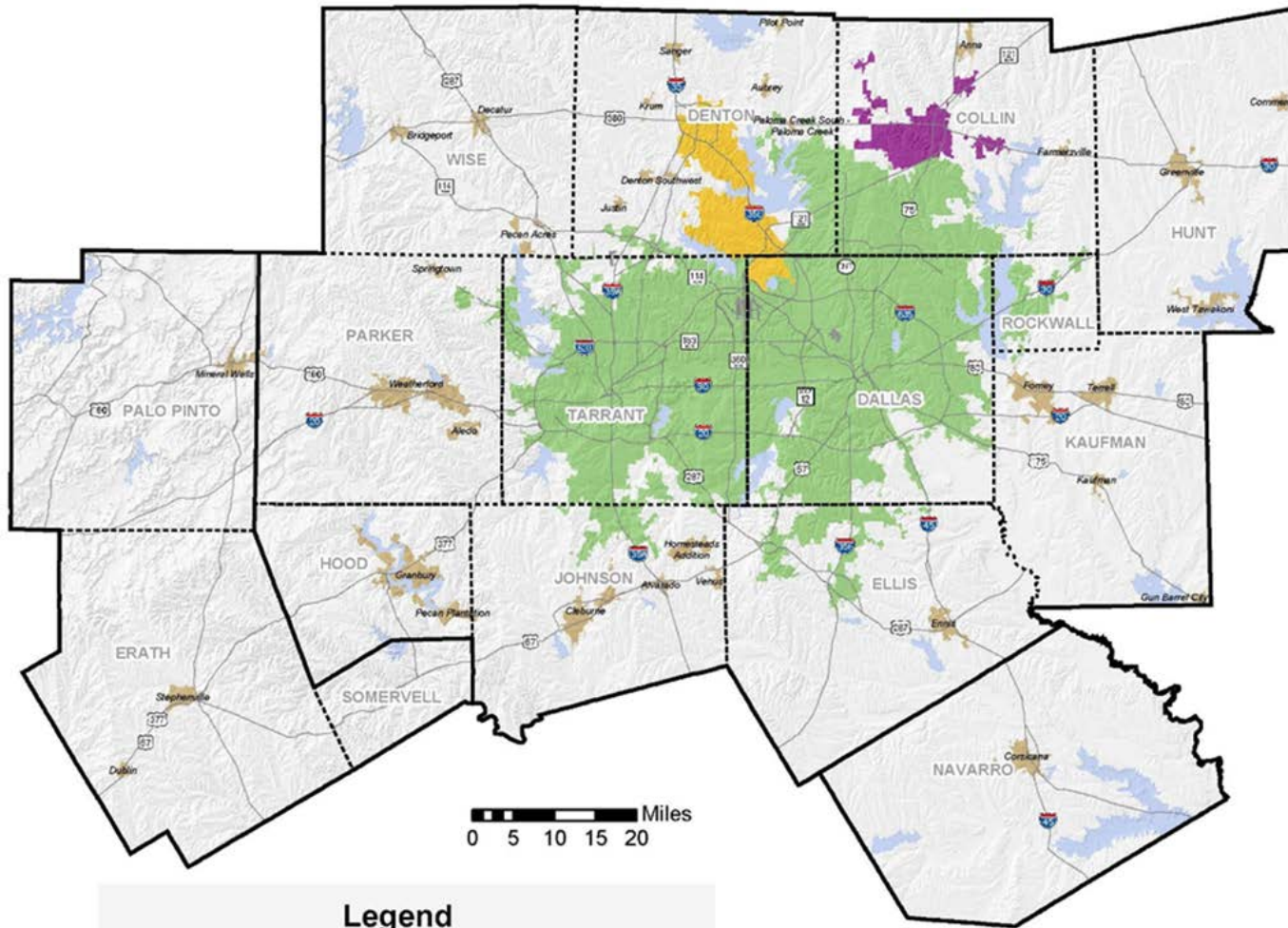
**Karina Maldonado  
North Central Texas Council of Governments**



# RTC Funding Process



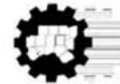
# U.S. Census Bureau Urbanized Areas and Urban Clusters (2010)



0 5 10 15 20 Miles

## Legend

- |  |   |
|--|---|
|  Dallas-Fort Worth-Arlington Urbanized Area |  McKinney Urbanized Area |
|  Denton-Lewisville Urbanized Area           |  Urban Clusters          |



North Central Texas  
Council of Governments  
Transportation  
March 2012

Projects must be focused on:

Dallas-Fort  
Worth-Arlington  
Urbanized Area



Denton-  
Lewisville (DL)  
Urbanized Area



# Funding Summary

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<b>Funding Program</b>	<b>Dallas-Fort Worth-Arlington Urbanized Area</b>	<b>Denton-Lewisville Urbanized Area</b>
Enhanced Mobility	\$2.9 M	\$0.3 M
Job Access/Reverse Commute	\$3.1 M	\$0.2 M
<b>Total Federal Funding Available</b>	<b>\$6.0 M</b>	<b>\$0.5 M</b>
<b>Total Federal Funding Requested</b>	<b>\$5.9 M (13 projects)</b>	<b>\$0.3 M (2 projects)</b>
<b>Total Federal Funding Recommended</b>	<b>\$1.6 M (8 projects)</b>	<b>\$0.3 M (2 projects)</b>

Balance of Enhanced Mobility funds will be carried forward to a future call for projects.

Balance of Job Access/Reverse Commute funds will be returned to transit authorities per RTC policy.

# Overview of Programs

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## Eligible Costs for Reimbursement

Capital*	Operating	Planning (JA/RC Only)*
80% Federal 20% Local**	50% Federal 50% Local	80% Federal 20% Local
Examples: Transit vehicles; mobility management and coordination programs	Examples: Expansion of service times or geography; fuel and driver salaries	Example: Transit related studies

\*Transportation Development Credits (TDCs) may be requested to leverage local cash match on capital expenses. The result is the capital portion of the project will be 100% federally funded.

\*\*Vehicles may have up to an 85% federal share, and at least 15% local match



# Draft Project Recommendations

Dallas-Fort Worth-Arlington UZA

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## JARC

Organization	Federal Funds Recommended for Award
Workforce Solutions of Greater Dallas (Planning)	\$210,000
Workforce Solutions of Greater Dallas (Vanpool)	\$180,045

See Reference Item 3 for more information



# Draft Project Recommendations

Dallas-Fort Worth-Arlington UZA

## Enhanced Mobility

<b>Organization</b>	<b>Federal Funds Recommended for Award</b>
Dallas Area Rapid Transit (DART)	\$168,868
City of Dallas	\$418,184
Dallas County HHS Older Adult Services Program	\$0*
City of DeSoto	\$334,800
Fort Worth Transportation Authority (FWTA)	\$327,000
City of Lancaster	\$0*

See Reference Item 3 for more information

\*Projects to be awarded through NCTCOG Vehicle Lease Program



# Draft Project Recommendations

Denton-Lewisville UZA

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## Enhanced Mobility

<b>Organization</b>	<b>Federal Funds Recommended for Award</b>
Span, Inc. (Flower Mound)	\$159,398
Span, Inc. (Lake Cities)	\$143,100

See Reference Item 3 for more information



# Schedule

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February 27, 2017	Call for Projects Opened
April 7, 2017	Call for Projects Closed
August 25, 2017	STTC: Information Item
September 14, 2017	RTC: Information Item
Week of September 11, 2017	Public Meetings
September 22, 2017	STTC: Action Item
October 12, 2017	RTC: Action Item
October 26, 2017	Executive Board: Agreements
Fall 2017	Submit FTA Grant Applications
Winter 2017	Enter into Agreements

# Requested Action

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Recommend Regional Transportation Council (RTC) approval of staff funding recommendations under the 2017 RTC Transit Call for Projects.

# Questions or Comments

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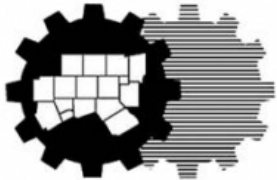
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# **INFRASTRUCTURE FOR REBUILDING AMERICA (INFRA) GRANTS NOTICE OF FUNDING AVAILABILITY**



**North Central Texas  
Council of Governments**

Surface Transportation Technical Committee

September 22, 2017

# TXDOT PROJECT SELECTION

- TxDOT has selected it's three projects:

Project
US 69 widening in the Beaumont District
SH 225 at Beltway 8 in the Houston District
IH 35 W North Tarrant Express in the Fort Worth District

# NCTCOG AND TXDOT COORDINATION

- Staff proposes the following projects for submittal

Project	Proposed INFRA Request Amount
IH 635 LBJ East	\$100-\$165 Million
DFW Connector at IH 635 /SH 114 or SH 121	\$65 million
IH 20 Y-Connection	\$100 Million
<del>IH 35 West "3C"</del>	<del>\$83 Million</del>

# CONSIDERATIONS FOR PROPOSING PROJECTS

- Select projects in both the East and West
- Put all our “eggs” in one basket (so to speak) to focus on large scale, mega-projects
- Is there an opportunity for “Mega-Leveraging?”
- Is the project large enough?
- Partnership opportunity with TxDOT (we submit our priority projects that they do not choose to submit)

# LETTERS OF SUPPORT

- Staff sought Regional Transportation Council (RTC) direction on whether letters of support should be provided to non-RTC and non-TxDOT projects
- RTC decided that staff should not provide letters of support to non-RTC and non-TxDOT projects



# ACTION REQUESTED

- Recommend RTC approval of projects proposed for submittal by NCTCOG/RTC for INFRA Funding
- Direct staff to administratively amend the Transportation Improvement Program (TIP) and Statewide TIP and other planning/administrative documents to include INFRA projects if selected

# TIMELINE

- July 5                    INFRA Grant Notice of Opportunity Announced
- August 25                Surface Transportation Technical Committee (STTC)  
Information
- September 14            Regional Transportation Council (RTC) Information on  
projects; Action on Letters of Support and partnership with  
TxDOT/RTC
- September 22            STTC Action
- October 12                RTC Action
- November 2               Applications must be submitted by 7:00pm CST through  
[www.grants.gov](http://www.grants.gov)

# CONTACT INFORMATION

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**Cody Derrick**

Transportation Planner I

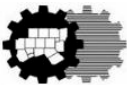
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# 2017-2018 CMAQ/STBG\* FUNDING: LOCAL BOND PROGRAM PARTNERSHIPS

Surface Transportation Technical Committee  
September 22, 2017

\* 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
- Strategic Partnerships
- 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 and Operations (M&O), NCTCOG-Implemented, and Regional/Air Quality Programs

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

# CMAQ/STBG FUNDING PROGRAM: LOCAL BOND PROGRAM

Description/ Purpose	To leverage bond funds for projects of strategic importance to local governments and the region.
Current Requests	<ul style="list-style-type: none"><li>• City of Dallas Bond Program (pending bond election decision by City Council)</li><li>• Parker County Bond Program</li><li>• Others?</li></ul>
Next Steps	Finalize projects with Parker County and City of Dallas. Possible Action in late 2017/early 2018.

# PROPOSED FUNDING BY AGENCY

**DRAFT**

<b>AGENCY</b>	<b>PROPOSED FEDERAL FUNDING<sup>1,2</sup></b>
City of Dallas	\$43,537,487 <sup>3</sup>
Hunt County	\$16,104,000
Parker County	\$12,528,000
City of Grapevine	\$5,000,000
City of Cedar Hill	\$280,000
<b>Total</b>	<b>\$77,449,487</b>

1: All Regional Transportation Council (RTC) funds would be contingent upon bond program/private sector contributions materializing. Individual projects will not be added to the Transportation Improvement Program (TIP) until the overall agreement about each partnership is executed if needed.

2: Additional details on the individual projects, funding amounts, and timing can be found in Reference Item 5.1.

3: In addition to this funding, up to \$40 million has been approved for the Southern Gateway Pedestrian Plaza through a previous RTC action.

# TIMELINE

MEETING/TASK	DATE
STTC Information	August 25, 2017
RTC Information	September 14, 2017
Public Meetings	September 11, 13, and 18, 2017
<b>STTC Action</b>	<b>September 22, 2017</b>
RTC Action	October 12, 2017



# ACTION REQUESTED

- Recommend RTC approval of:
  - The proposed list of projects to fund through the 2017-2018 CMAQ/STBG: Local Bond Program Partnerships Program (Reference Item 5.1)
  - Administratively amending the 2017-2020 Transportation Improvement Program (TIP)/Statewide Transportation Improvement Program (STIP) and other planning/administrative documents to incorporate these changes.

# QUESTIONS?

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# BIG PROJECTS IN TEXAS AND THE DALLAS-FORT WORTH REGION:

SUPPORT FOR THE TEXAS TRANSPORTATION COMMISSION

SURFACE TRANSPORTATION TECHNICAL COMMITTEE

SEPTEMBER 22, 2017

Michael Morris, P.E., Director of Transportation



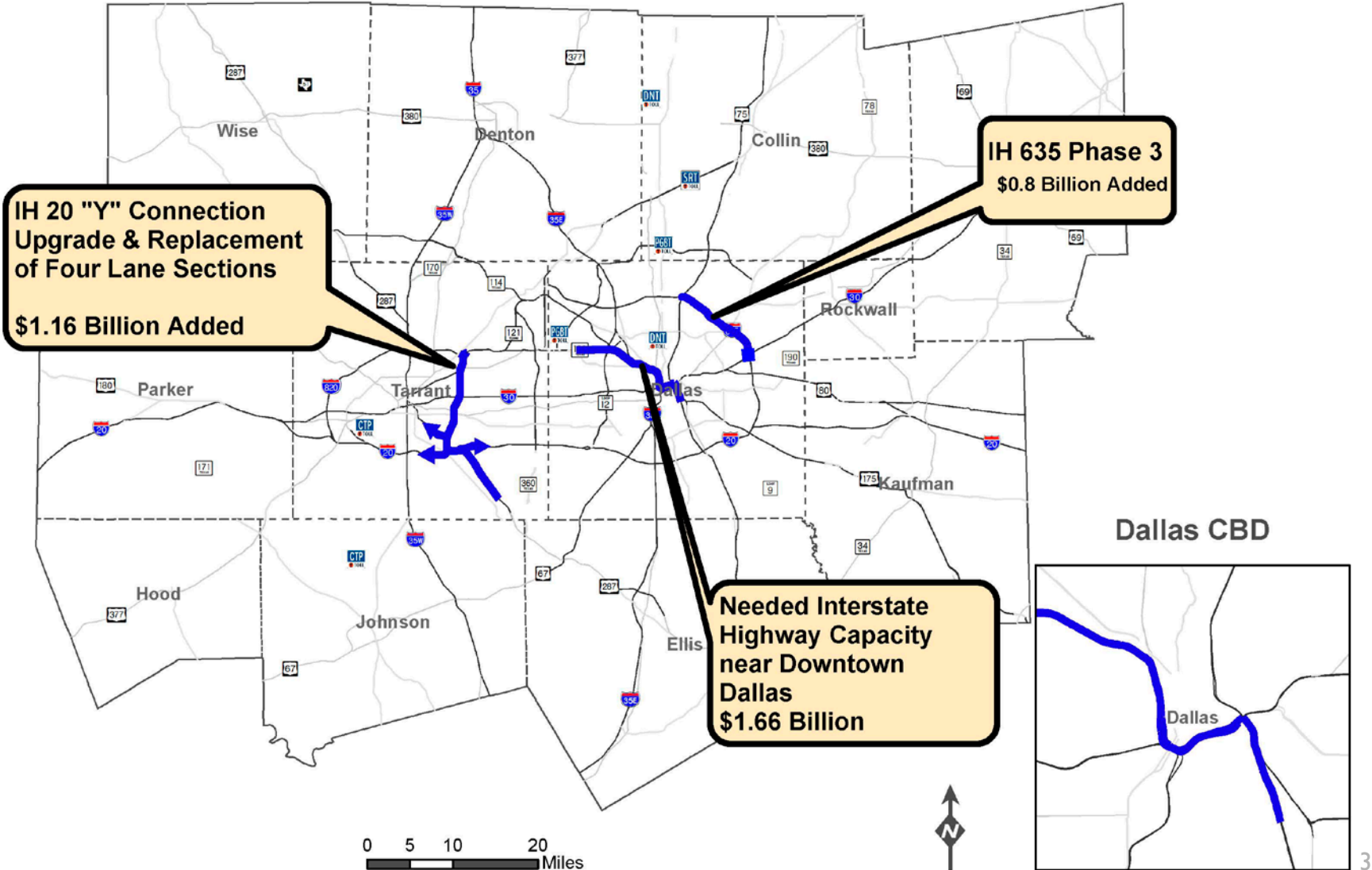
North Central Texas  
Council of Governments

# TXDOT/RTC PARTNERSHIP ON DELIVERING BIG PROJECTS

Time is Now – Need for Momentum

Required RTC Action Steps will be Scheduled  
Beginning in October 2017

# Next Big Projects in the Dallas-Fort Worth Region: Additional Texas Transportation Commission Incremental Funding



# IMPLICATIONS FOR CURRENT PROJECTS

No Change: On their Own Schedule

No Loss of Revenue for Current Projects

All RTC Contingencies Remain As Is

# “Y” CONNECTION AND ELIMINATION OF FOUR LANE SECTIONS

TxDOT Leads with RTC Assistance

NCTCOG Focuses on Travel Forecast, Lane Balance,  
and Public Outreach

Northeast Mall to Downtown Mansfield

Next Big Project in the West

## IH 635 EAST: PHASE 3

Whole Project Advances with Skillman/Audelia

Tolled Managed Lane Entire Way: Includes Interchange

TxDOT Initiates Traffic and Revenue

NCTCOG Focuses on Traffic Forecast and Public  
Outreach

NCTCOG Expedites Air Quality Conformity

Federal Highway Administration Responsive to Schedule

Next Big Project in the East



# DALLAS CBD INTERSTATE HIGHWAYS

NTTA Waives Primacy

TxDOT/City of Dallas Initiates Consensus Building

NCTCOG Prepares for Detailed Simulation and Lane  
Balance

SH 183 and US 175 Tails Continue

# **TOLL MANAGED LANE DATA MONITORING**

**Surface Transportation Technical Committee**

**September 22, 2017**

**Dan Lamers, P.E.**



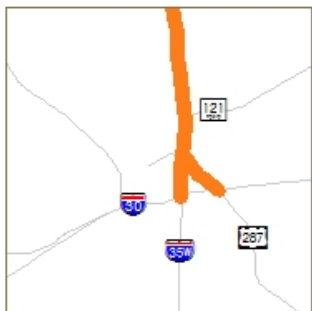
*North Central Texas Council of Governments  
Transportation Department*

# Near Term Managed Lane System Openings

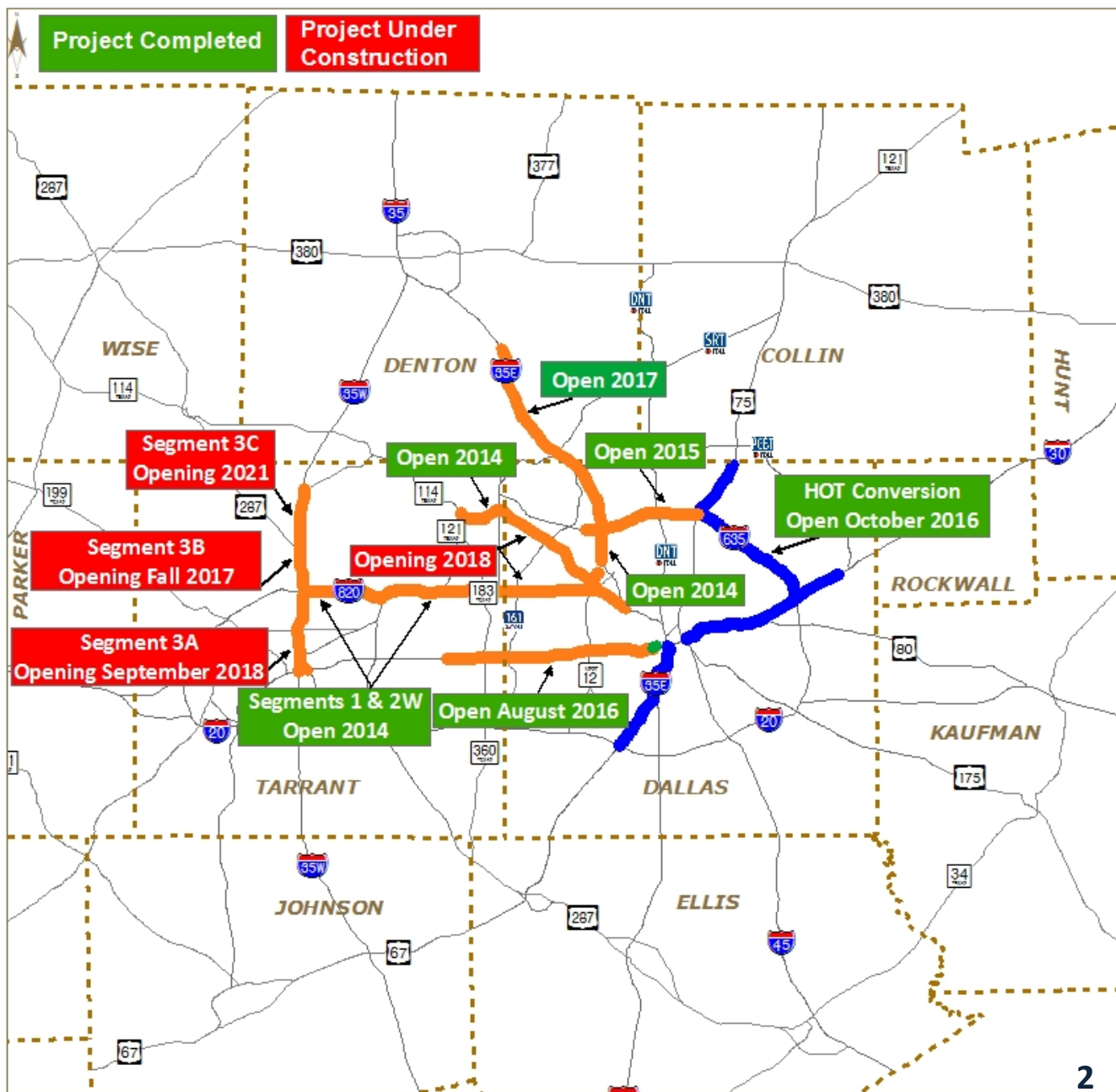
## Current Express/HOV + New Managed Lanes

-  Current Express/HOV Lanes
-  New TExpress Managed Lanes
-  Transitional High - Occupancy Vehicle Lane
-  Major Roadways

Fort Worth CBD



Dallas CBD



# TOLL MANAGED LANE DATA MONITORING

*Cumulative December 2013 – June 2017*

For how much HOV 2+ Subsidy has the RTC been responsible?

*\$1,507,756 as of June 2017*

For how much of the Vanpool Toll reimbursement has the RTC been responsible?

*\$ 3,266 from October 2014 – June 2017*

How long can the RTC keep the HOV policy at 2+?

*For now, it remains 2+ and it will continue to be monitored quarterly*

Have there been any additional NTTA customer service needs?

*No, minimal impact*

Have the speeds on the Toll Managed Lane facilities dropped below 35 mph?

*No*

# TOLL MANAGED LANE DATA MONITORING

*Cumulative December 2013 – June 2017*

Facility	HOV 2+ Subsidy Costs	NTTA Customer Service (Additional Needs)	Project Performance Events (Speeds < 35 mph)
<b>North Tarrant Express</b> <i>SH 183/121 from IH 35W to SH 121</i>	\$654,411	Negligible	0
<b>LBJ Express</b> <ul style="list-style-type: none"> <li>• <i>IH 635 from Preston Road to Greenville Avenue</i></li> <li>• <i>IH 35E from Loop 12 to IH 635</i></li> </ul>	\$853,345	Negligible	0
<b>DFW Connector</b> <i>SH 114 from Kimball Avenue to Freeport Parkway</i>	N/A	Negligible	0
<b>IH 30 Managed Lanes</b> <i>IH 30 from SH 161 to Westmoreland Road</i>	N/A	Negligible	0
<b>IH 35E Managed Lanes</b> <i>IH 35E from FM 2181 (Teasley) to LBJ</i>	N/A	Negligible	0

# Auto Occupancy Detection and Verification Technology Update

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SURFACE TRANSPORTATION TECHNICAL  
COMMITTEE

SEPTEMBER 22, 2017

Dan Lamers, Sr. Program Manager



# Project History

**2012 – NCTCOG**

**Technology Approaches to HOV Occupancy Declaration and Verification (Texas A&M Transportation Institute)**

**2012 – NCTCOG**

**Request for Information (RFI) for IH 30 Managed Lane Technology**

- Occupancy detection and verification
- Dynamic tracking of vehicles

**2013 – NCTCOG**

**Re-issue RFI with demonstration component**

**2014 – NCTCOG**

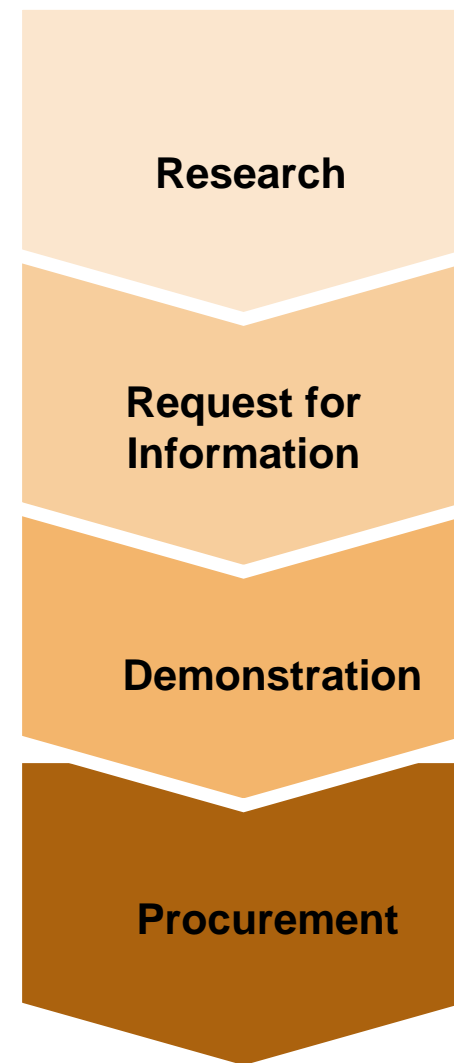
**TTI Update to white paper and proof of concept testing of in-vehicle technology**

**2015 – TxDOT/NCTCOG**

**Request for Offer - Automated Vehicle Occupancy Detection Solution**

**2016 – NCTCOG/TxDOT**

**Request for Proposals for Auto Occupancy Detection and Verification Technology**



# Why Mobile Occupancy Verification?

Verification

~~Enforcement~~

## No Additional Roadside Infrastructure

- No right-of-way for HOV declaration-ramps of law enforcement
- No special lights or law enforcement technologies
- Work with existing toll infrastructure

## Reliability

- Works 24 hours per day x 365 days per year
- Covers 100% of your road network
- Invulnerable to variance in weather, traffic, vehicles

## Privacy

- Opt-in by users, no peering inside vehicles
- No PII data: toll tagplus verified occupancy

## Network Benefits

- Leakage reductions, optional occupancy perks
- Performance measures, planning data

## Big Data Analytics

- Big Data analysis identifies non-compliant behaviors
- Agency policies define automated warnings
- Data aggregation of traffic patterns, travel times and origin / destination maps



Roadside  
Sensing



Patrol  
Enforcement



Manual  
Declaration

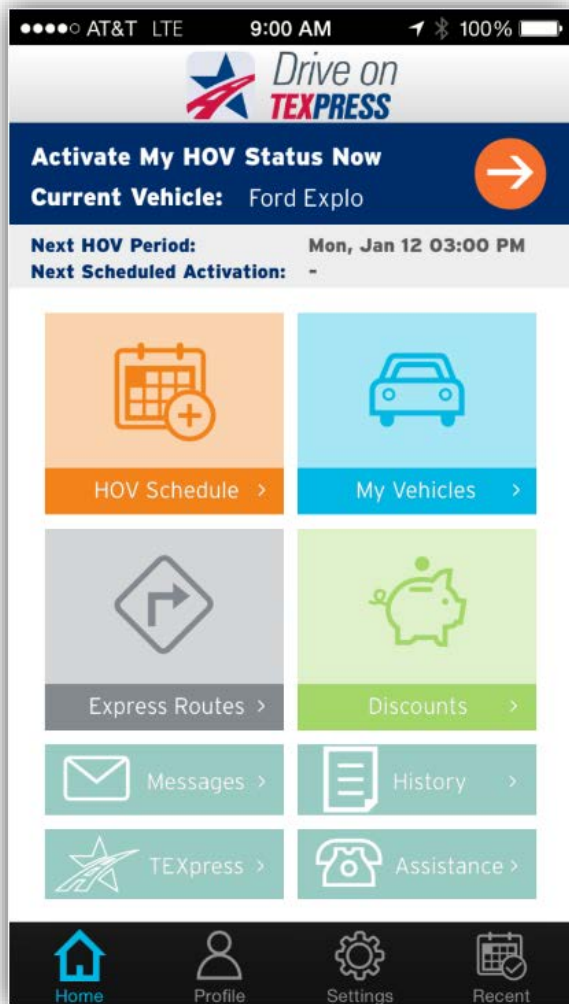
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## No Messy Legal Issues

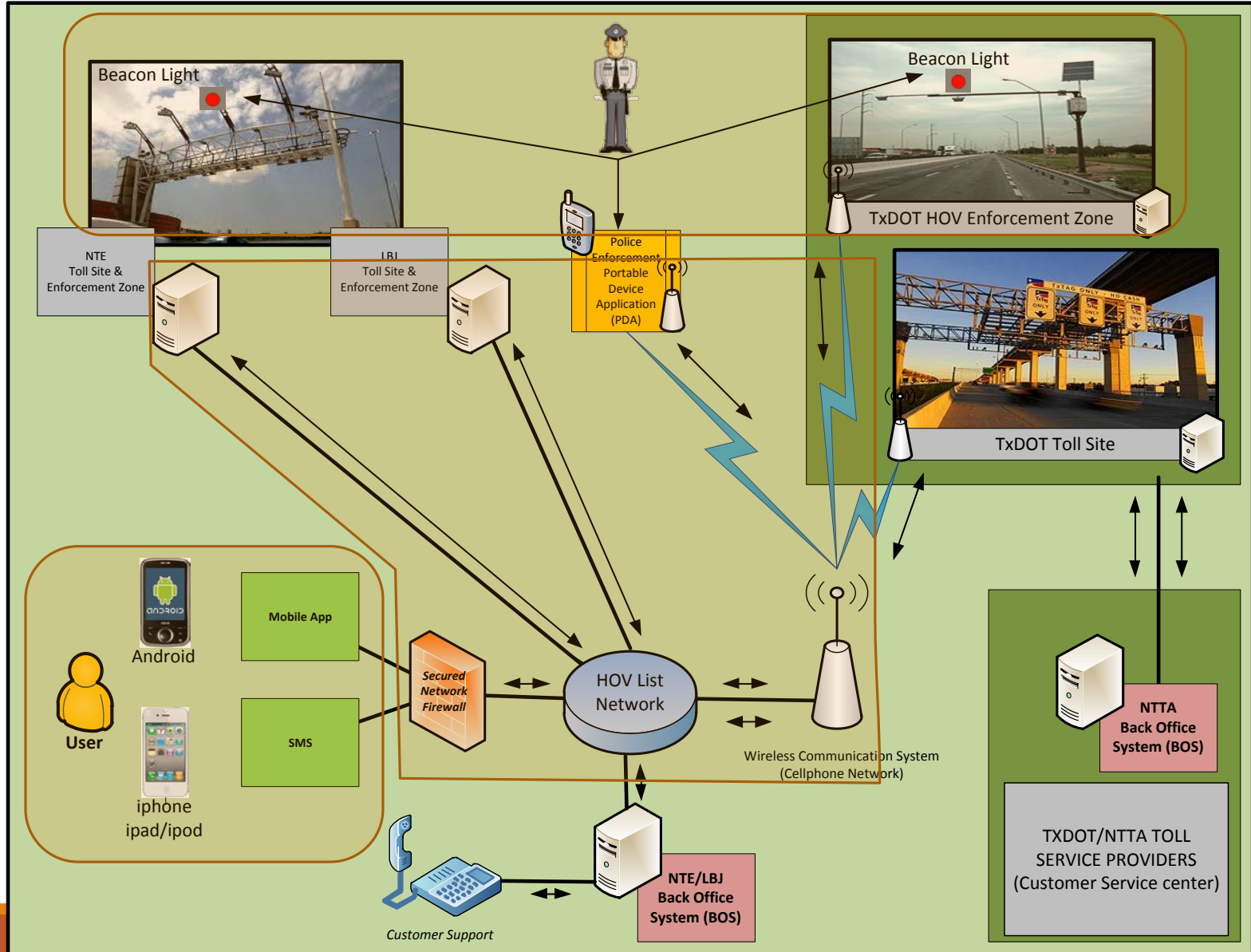
- Manual enforcement is often sporadic and ineffective
- No law enforcement officers needed to issue tickets
- Does not tie-up court system
- Flexible “fraud detection” program
- Charge the right toll
- Willing to live with small level of “violators” in lieu of costly manual enforcement



# Drive on TEXPRESS Application



# Current HOV Enforcement



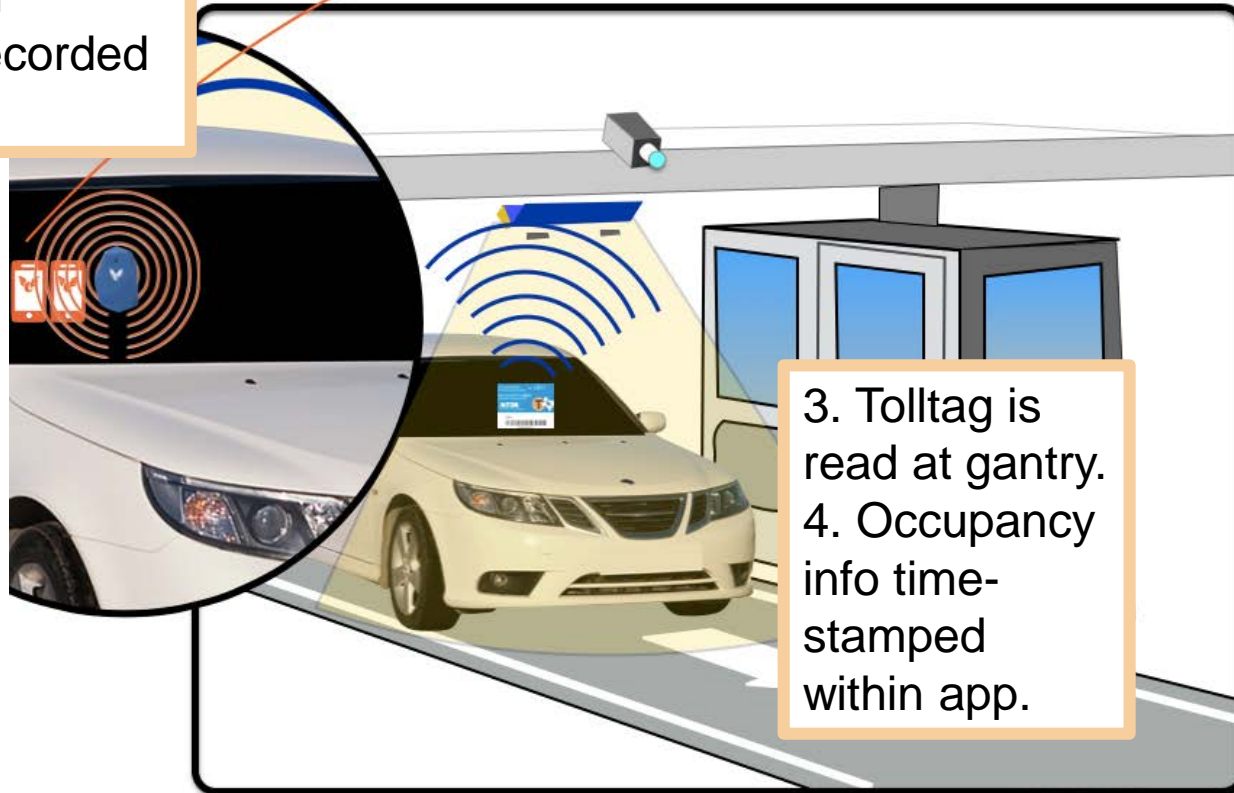
# Technology Overview

## How Carma's solution works

1. Car beacon  
"reads" cell phone/  
occupant beacon.

2. Number of  
occupants recorded  
within app.

TollTag ID: T1982465  
2 Occupants



3. Tolltag is  
read at gantry.  
4. Occupancy  
info time-  
stamped  
within app.





## Customer Process

### Place car beacon in glove box

- Or other out of the way location in vehicle

### Download app

- Runs in background once installed
- Bluetooth turned on
- Low energy/battery usage
- Pickup a friend and want to carpool? Just use the app to send an invite before you drive.

### Register Tolltag to car beacon

- Occupants do not need to register to tolltag

### Place optional occupant beacon in diaper bag or backpack

- In lieu of app for occupants without phone

## Detection/Verification Process

### Occupancy automatically detected

- When occupant with app enters vehicle
- Optional occupant beacons also counted
- Occupant count transmitted to Carma server via cellular network
- Carma server transmits timestamped occupancy data to toll back office

### Occupant data timestamped at toll gantry

- Carma occupant data matched with toll transaction

### Customer gets charged correct toll!

### Fraud detection

- System monitors proximity of phones/beacons periodically
- Region to develop potential fraud messaging and response

# Overall Schedule

Task	Timeframe
Kick-off Meeting with Partners	August 2017
Surface Transportation Technical Committee/Regional Transportation Council/Public Meetings	September/October 2017
Pilot on DFW Connector Corridor	October/November 2017
Share Pilot Results to Partner Agencies	December 2017
Surface Transportation Technical Committee/Regional Transportation Council/Public Meetings	January/February 2018
Partner Integration	March 2018
System-Wide Deployment	May 2018
Transition to Incentive Program	??



# **TRAVEL DEMAND MANAGEMENT PROGRAM**

## **PERFORMANCE MEASURES REPORT 2016-2017**

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**Surface Transportation Technical Committee**

**Fola Hammones  
North Central Texas Council of Governments  
September 22, 2017**

# Travel Demand Management (TDM) Program Annual Performance Report Overview

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- Try Parking It Commute Modes
- Regional Vanpool Program
- Try Parking It News
- Try Parking It G.R.E.E.N. Rewards Partners



Rideshare. Record. Reward.

# Try Parking It Commute Modes January 2016 – June 2017



Commute Mode	Number of Times Used	VMT Reduced (mi)	Percentage Used
<b>Carpool - Drive &amp; Ride</b>	<b>19,511</b>	<b>472,858</b>	<b>24%</b>
<b>Vanpool - Drive &amp; Ride</b>	<b>4,223</b>	<b>166,826</b>	<b>5%</b>
<b>Transit - Bus</b>	<b>9,550</b>	<b>105,892</b>	<b>12%</b>
<b>Transit - Rail</b>	<b>11,645</b>	<b>226,125</b>	<b>14%</b>
<b>Walk</b>	<b>11,099</b>	<b>10,832</b>	<b>14%</b>
<b>Bike</b>	<b>9,258</b>	<b>57,807</b>	<b>11%</b>
<b>Telecommute</b>	<b>12,569</b>	<b>300,279</b>	<b>15%</b>
<b>Day Off — Compressed Week</b>	<b>4,462</b>	<b>96,069</b>	<b>5%</b>



# Try Parking It Emission & Health Savings by Commute Mode January 2016 – June 2017



Commute Mode	Calories Burned	GHG (lbs)	NOx (lbs)	CO (lbs)	PM (lbs)	VOC (lbs)
Carpool - Drive & Ride	0	227,337	151	2,118	25	711
Vanpool - Drive & Ride	0	107,940	81	1,081	13	361
Transit - Bus	0	96,564	77	971	13	324
Transit - Rail	0	206,997	166	2,081	27	694
Walk	1,281,372	9,778	8	98	1	33
Bike	3,055,322	53,018	43	533	7	178
Telecommute	0	271,734	218	2,731	36	910
Day Off / Compressed Week	0	87,225	70	877	11	292
Brown Bag Lunch	0	213,892	171	2,139	28	713
Drive Alone ZEV	0	21,865	1	25	0	16
<b>Total</b>	<b>4,336,694</b>	<b>1,296,350</b>	<b>986</b>	<b>12,654</b>	<b>162</b>	<b>4,232</b>

# Regional Vanpool Program January 2016 – December 2016



Rideshare. Record. Reward.

Vanpool Program	DART	FWTA	DCTA	Private Provider	Combined
Number of Vans	185	103	37	85	<b>410</b>
Average Monthly Participants	1,452	699	399	416	<b>2,966</b>
Vehicle Miles of Travel Reduced	21,389,968	12,620,986	7,601,720	5,095,833	<b>46,708,507</b>
Vehicle Trips Reduced	650,676	299,088	180,424	176,876	<b>1,307,064</b>
NOx Emissions Reduced (lbs)	12,721	7,506	4,521	3,031	<b>27,779</b>
VOC Emissions Reduced (lbs)	4,240	2,502	1,507	1,010	<b>9,259</b>

# Regional Vanpool Program January 2017 – June 2017



Rideshare. Record. Reward.

Vanpool Program	DART	FWTA	DCTA	Private Providers	Combined
Number of Vans	181	96	34	89	<b>400</b>
Average Monthly Participants	1,347	647	343	483	<b>2,820</b>
Vehicle Miles of Travel Reduced	9,740,495	6,021,462	3,414,919	2,968,261	<b>22,145,137</b>
Vehicle Trips Reduced	293,868	140,034	77,188	99,994	<b>611,084</b>
NOx Emissions Reduced (lbs)	5,793	3,581	2,031	1,765	<b>13,170</b>
VOC Emissions Reduced (lbs)	1,931	1,194	677	588	<b>4,390</b>

# Try Parking It Commuter Challenges 2016 – 2017



## Hosted Four Commuter Challenges between May 2016 and May 2017

- Dallas Area Rapid Transit
- Denton County Transportation Authority
- North Central Texas Council of Governments

### DART Bike to Work Challenge May 2016

A promotional graphic for the DART Bike to Work Challenge. The left side has a blue background with the text 'WIN PRIZES Bike and Ride' in yellow and white, and a silhouette of a person riding a bicycle. The right side has a light blue background with the text 'DART Bike to Work Challenge May 1 thru May 31, 2016' and a list of requirements: 'REGISTER', 'RIDE YOUR BIKE', and 'LOG YOUR TRIPS'. Below this, it states 'Top three participants will win the following prizes from Richardson Bike Mart.' and lists the prizes: '1st Place \$100 Gift Card', '2nd Place \$50 Gift Card', and '3rd Place \$25 Gift Card'. The right side of the graphic has a yellow background with the DART logo and tagline 'let's go.', the 'try parking it' logo, and the Richardson Bike Mart logo with 'EST. 1962'.

# NCTCOG I-30 Insider Commuter Challenge October 2016 – April 2017



- Funded by the FHWA Value Pricing Pilot Program
- Administered by NCTCOG
- Goal: Test the Effectiveness of Various Incentives in Altering Commute Behaviors

Between 10/1/2016 and 4/28/2017, instead of driving alone on I-30, use any of these alternative commutes:

The icons represent five alternative commute methods: a car with three people (Carpool or Vanpool), a bus (Take Transit), a bicycle (Bike), a person walking (Walk), and a computer monitor on a desk (Telecommute or Compressed Work Week).

Below the icons are two circular logos. The first is the 'try parking it' logo, which includes the text 'Find a ride match under "Find Commute Options" at TryParkingIt.com'. The second is the 'TEXPRESS' logo, which includes the text 'Get a TollTag and download the Drive On TEXpress app for HOV rush hour discounts in the TEXpress Lane at DriveOnTEXpress.com'.

Become an **I<sup>30</sup> Insider.**  
**Drive I-30. Earn rewards.**

[www.i30insider.com](http://www.i30insider.com)

# DCTA Bike Everywhere Commuter Challenge May 2017

The banner features the DCTA logo on the left, the 'BIKE EVERYWHERE CHALLENGE May 2017' logo in the center, and the 'try parking it' logo on the right. The background is light blue with a sunburst pattern.

**DCTA** DENTON COUNTY TRANSPORTATION AUTHORITY

**BIKE EVERYWHERE CHALLENGE**  
May 2017

**try parking it**

# RIDE. TRACK. WIN.

Sign Up Free | Log Your Trips | Win Great Prizes

- 1st Place WINNER**  
\$150 in Sponsorship Gift Cards & Swag
- 2nd Place WINNER**  
\$75 in Sponsorship Gift Cards & Swag
- 3rd Place WINNER**  
VIP Western Days Tickets & Sponsorship Swag

Sponsored By:

The sponsors are represented by their respective logos: Orange Bicycle Center (a bicycle), Denton (a stylized 'd' with a bicycle), Lewisville (a purple bird), and Highland Village (a stylized 'H' with a bicycle).

BikeDCTA.net | #BikeDCTA

# DART Bike to Work Commuter Challenge May 2017



**BIKE TO WORK DAY**  *let's go.*

**SO MANY REASONS TO RIDE!**

**FRIDAY, MAY 19**  
**FREE bike safety checks, drinks, snacks and more!**

Locations and details at [DART.org/bikes](http://DART.org/bikes)

**MAY 1 – 31**  
**MAY IS NATIONAL BIKE MONTH**  
**WANT TO RIDE MORE?**

Show us how far you can go in 31 days.  
Sign up for the Bike to Work Challenge for a chance to win a fabulous prize!

*For my sense of adventure!*

*To do my share for cleaner air!*

*To get a workout on my way to work!*

*For an easier connection to DART services!*

*For more green in my bank account!*

*To burn calories instead of gas!*

An illustration of a man in a grey jacket and blue pants riding a bicycle. He is wearing glasses and has a determined expression. Six speech bubbles are positioned around him, each containing a reason for riding. The background features a stylized city skyline in shades of orange and yellow against a blue sky.

# Try Parking It G.R.E.E.N. Rewards Partners



## What is a G.R.E.E.N Rewards Partner?

---

GIVE

RECEIVE

EXPAND

EFFECT

NORTH TEXAS

- Business Recruitment efforts Led by The Burrell Group of Dallas, TX.
- 128 Local Businesses to Date
- Nearly \$112,000 in Rewards Donated



# Try Parking It Current G.R.E.E.N. Rewards Partners



eshare. Record. Reward.



# Try Parking It Current G.R.E.E.N. Rewards Partners



Rideshare. Record. Reward.



LUXESTVITA



Tacodeli



# Try Parking It Current G.R.E.E.N. Rewards Partners



The First Prime Brazilian Steakhouse



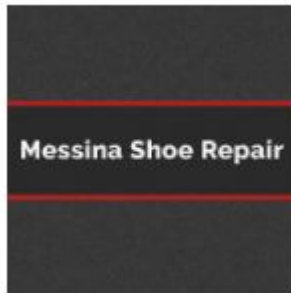
# Try Parking It Current G.R.E.E.N. Rewards Partners



Rideshare. Record. Reward.



CHAD ROOKSTOOL  
SALON



FOUR DAY WEEKEND  
EVENTS

Kimbell  
Art Museum



# Try Parking It Current G.R.E.E.N. Rewards Partners



Rideshare. Record. Reward.



Denton County Transportation Authority



# Try Parking It Historical G.R.E.E.N. Rewards Partners



Rideshare. Record. Reward.



# Contacts

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**817-695-9273**

**Fola Hammones**

**Transportation Planner**

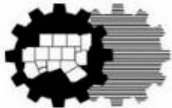
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**817-695-9260**

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# **COTTON BELT PUBLIC MEETING: ADDITIONAL FOLLOW UP**

Surface Transportation Technical Committee  
September 22, 2017

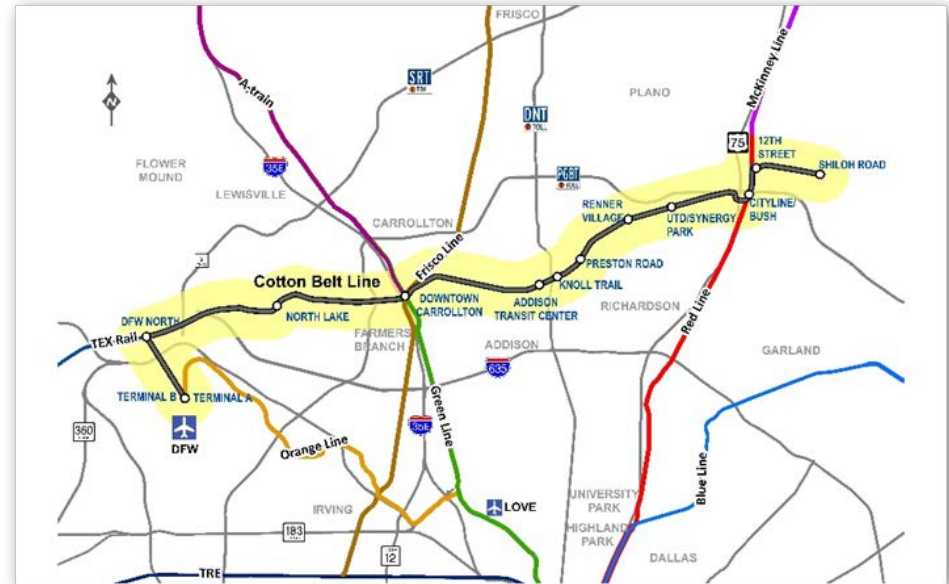


North Central Texas  
Council of Governments  
Transportation Department

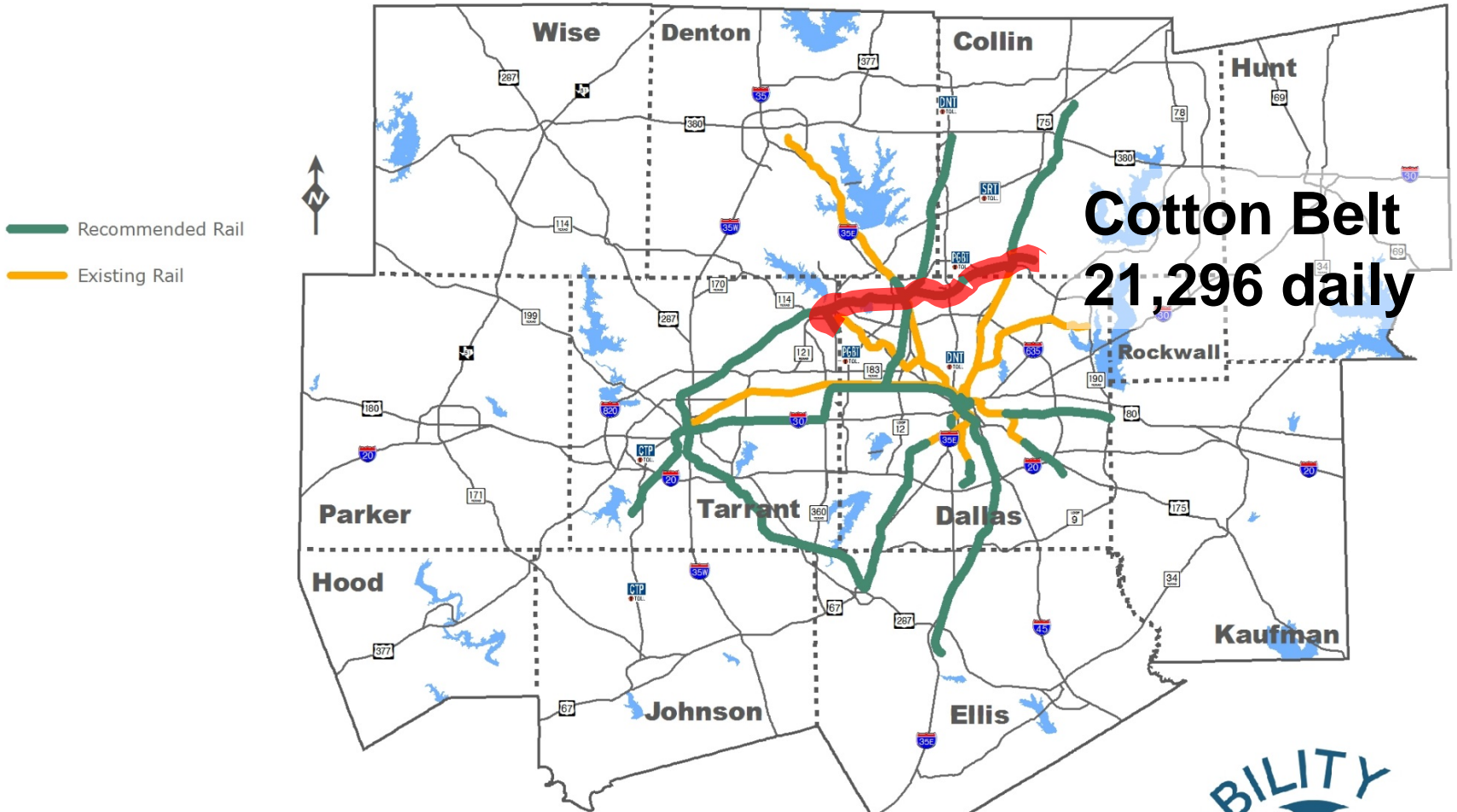


# IMPACT TOMORROW

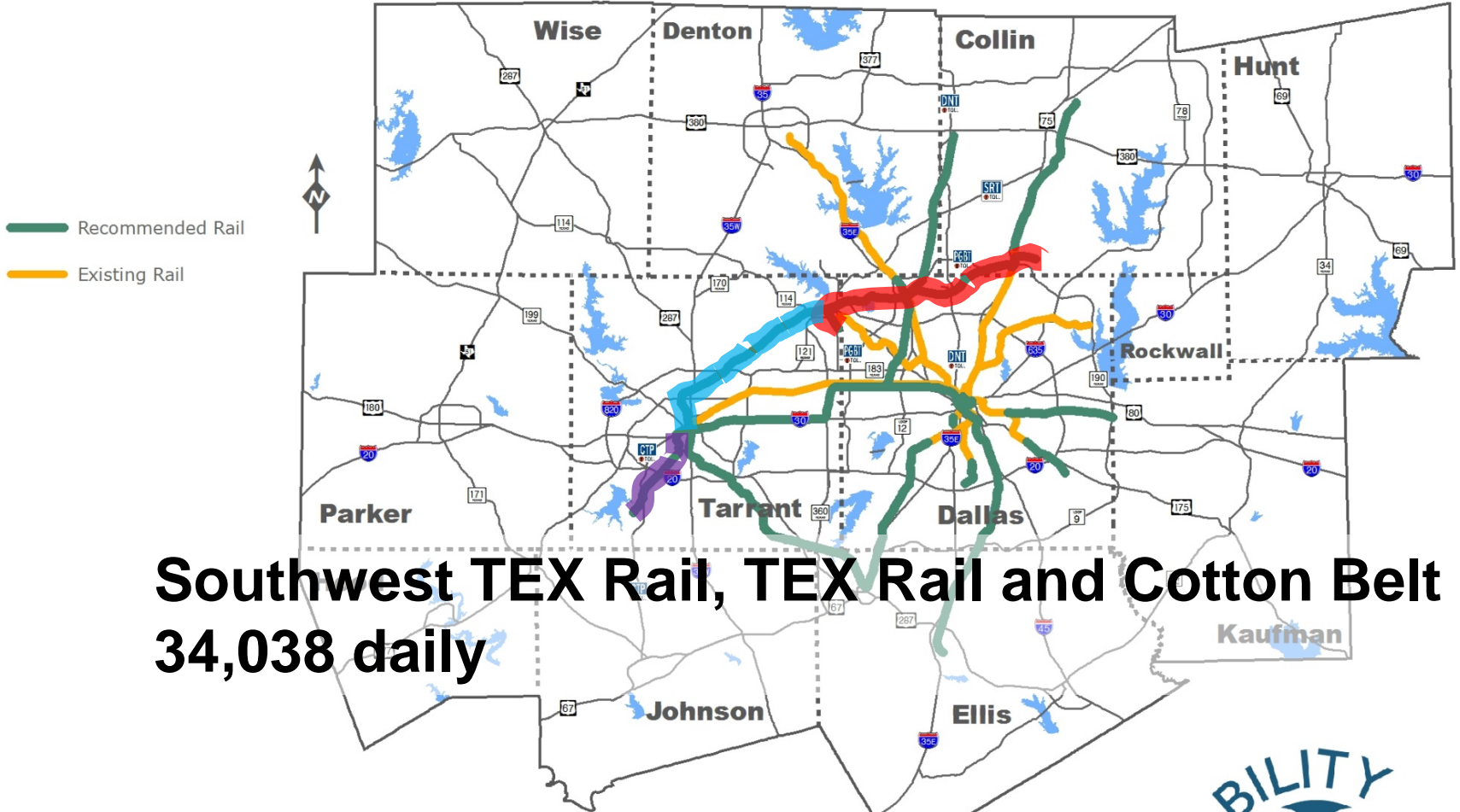
- Projected 2040 ridership over 5.5 million annually (21,296 daily)
  - Busiest commuter rail in the region
- Fourth busiest rail line overall (behind DART's Red, Green, and Blue light rail lines)



# 2040 Transit Recommendations



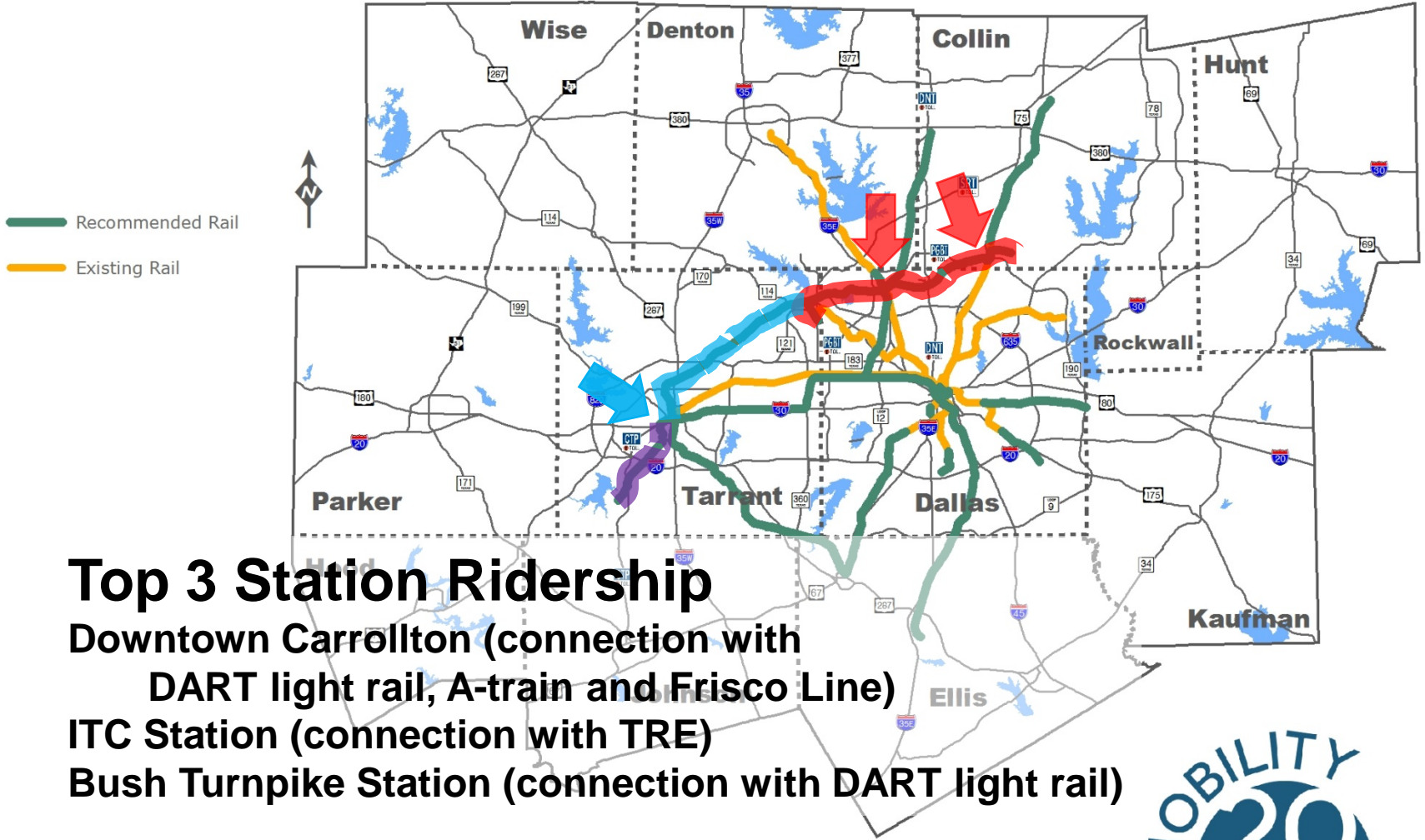
# 2040 Transit Recommendations



**Southwest TEX Rail, TEX Rail and Cotton Belt  
34,038 daily**



# 2040 Transit Recommendations

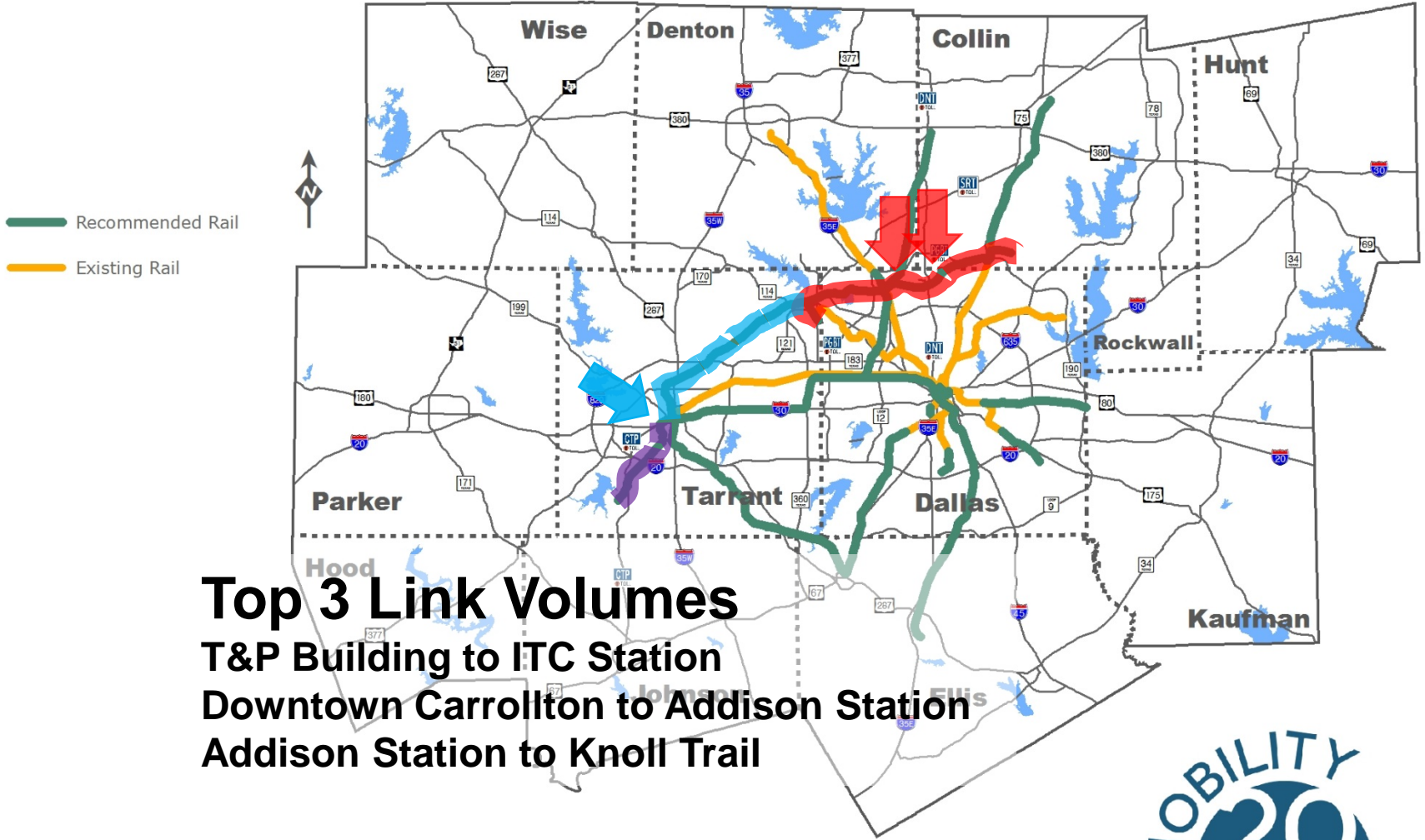


## Top 3 Station Ridership

- Downtown Carrollton (connection with DART light rail, A-train and Frisco Line)
- ITC Station (connection with TRE)
- Bush Turnpike Station (connection with DART light rail)



# 2040 Transit Recommendations



**Top 3 Link Volumes**  
T&P Building to ITC Station  
Downtown Carrollton to Addison Station  
Addison Station to Knoll Trail



# CONTACT

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Ying Cheng

Senior Transportation Planner

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# Station Ridership


Cotton Belt	Shiloh	756
	12th Street	392
	<b>Bush Turnpike Station (connection with DART light rail)</b>	<b>2,816</b>
	UTD/Synergy Park Station	1,102
	Coit Rd	1,114
	Preston Rd/SH289	750
	Knoll Trail	676
	Addison Station	2,220
	<b>Downtown Carrollton (connection with DART light rail, A-train and Frisco Line)</b>	<b>5,133</b>
North Lake	1,081	
Cotton Belt and TEX Rail	NORTH DFW	1,239
	DFWIA AB Terminal (connection with DART light rail)	1,944
TEX Rail	Grapevine	823
	Main/Davis/Smithfield	1,039
	Iron Horse	696
	US377	905
	Beach	601
	Northside	1,172
	<b>ITC Station (connection with TRE)</b>	<b>3,529</b>
Southwest TEX Rail	T&P Building	1,680
	Medical Center	971
	Berry/TCU	709
	Granbury-IH20	1,120
	Sycamore	1,437
	McPherson	131
	<b>Total</b>	<b>34,038</b>

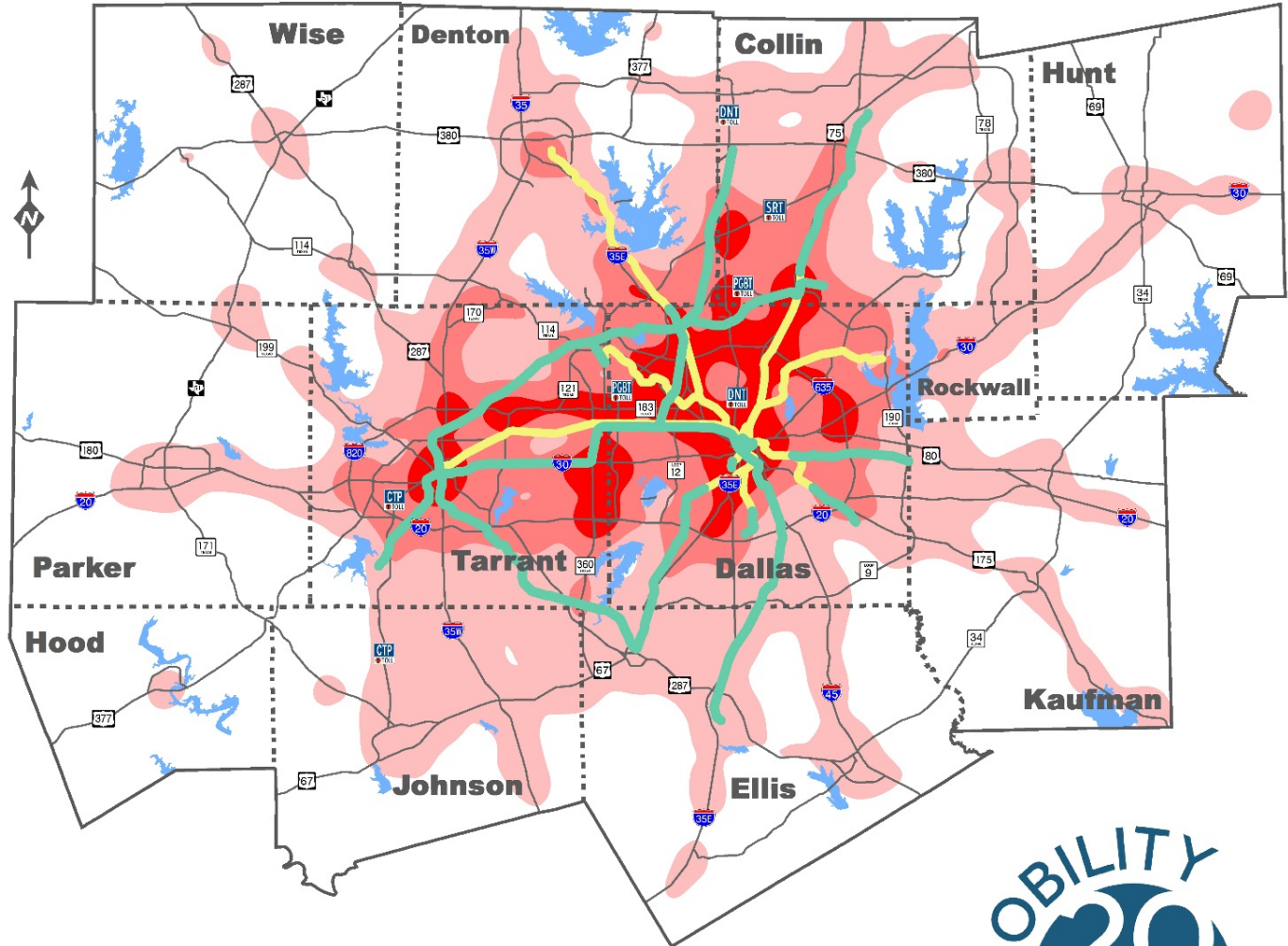


# Link Volumes

<b>Cotton Belt</b>	Shiloh to 12th Street	1,513
	12th Street to Bush Turnpike Station	2,149
	Bush Turnpike Station to UTD/Synergy Park Station	6,624
	UTD/Synergy Park Station to Coit Rd	7,896
	Coit Rd to Preston Rd/SH289	8,563
	Preston Rd/SH289 to Knoll Trail	9,100
	Knoll Trail to Addison Station	9,296
	Addison Station to Downtown Carrollton	9,937
	Downtown Carrollton to North Lake	5,087
	North Lake to North DFW	4,148
<b>Cotton Belt and TEX Rail</b>	NORTH DFW to DFWIA AB Terminal	3,889
<b>TEX Rail</b>	NORTH DFW to Grapevine	6,322
	Grapevine to Main/Davis/Smithfield	6,995
	Main/Davis/Smithfield to Iron Horse	6,519
	Iron Horse to US377	6,497
	US377 to Beach	6,501
	Beach to Northside	6,878
	Northside to ITC Station	7,772
<b>Southwest TEX Rail</b>	ITC Station to T&P Building	11,539
	T&P Building to Medical Center	6,536
	Medical Center to Berry/TCU	6,233
	Berry/TCU to Granbury-IH20	5,114
	Granbury-IH20 to Sycamore	3,039
	Sycamore to McPherson	263

# 2040 Levels of Congestion and Transit Recommendations

-  No Congestion
-  Light Congestion
-  Moderate Congestion
-  Severe Congestion
-  Recommended Rail
-  Existing Rail



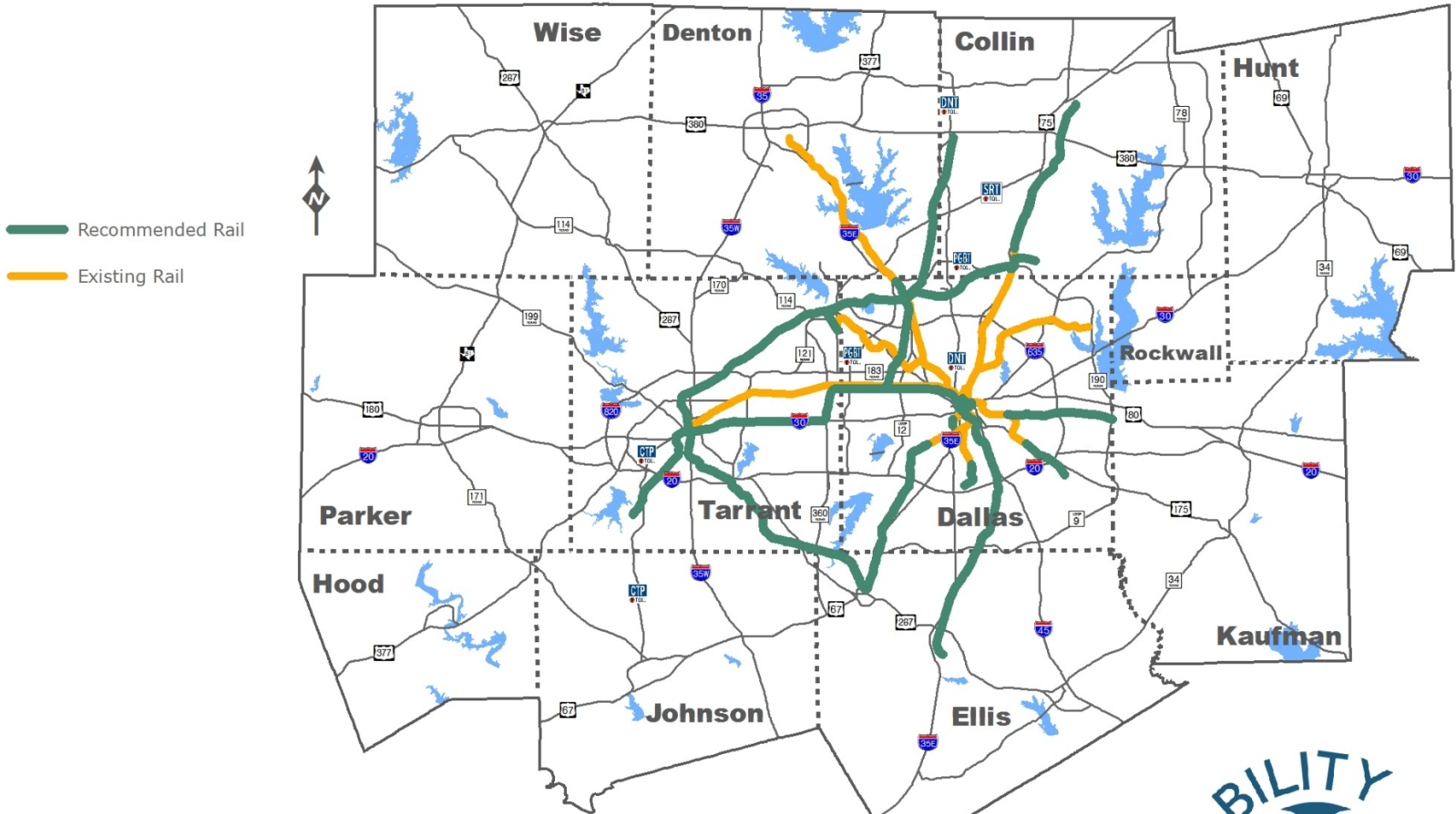
**Cost of Congestion/Delay: \$25.3 billion**

Level of congestion is based on a percent increase in travel time. Facility recommendations indicate transportation need. Corridor-specific alignment, design, and operational characteristics will be determined through ongoing project development.



North Central Texas  
Council of Governments

# 2040 Transit Recommendations



# Mobility Plan Status Report and Survey

Surface Transportation Technical Committee

September 22, 2017



# Schedule

Milestone	Date
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



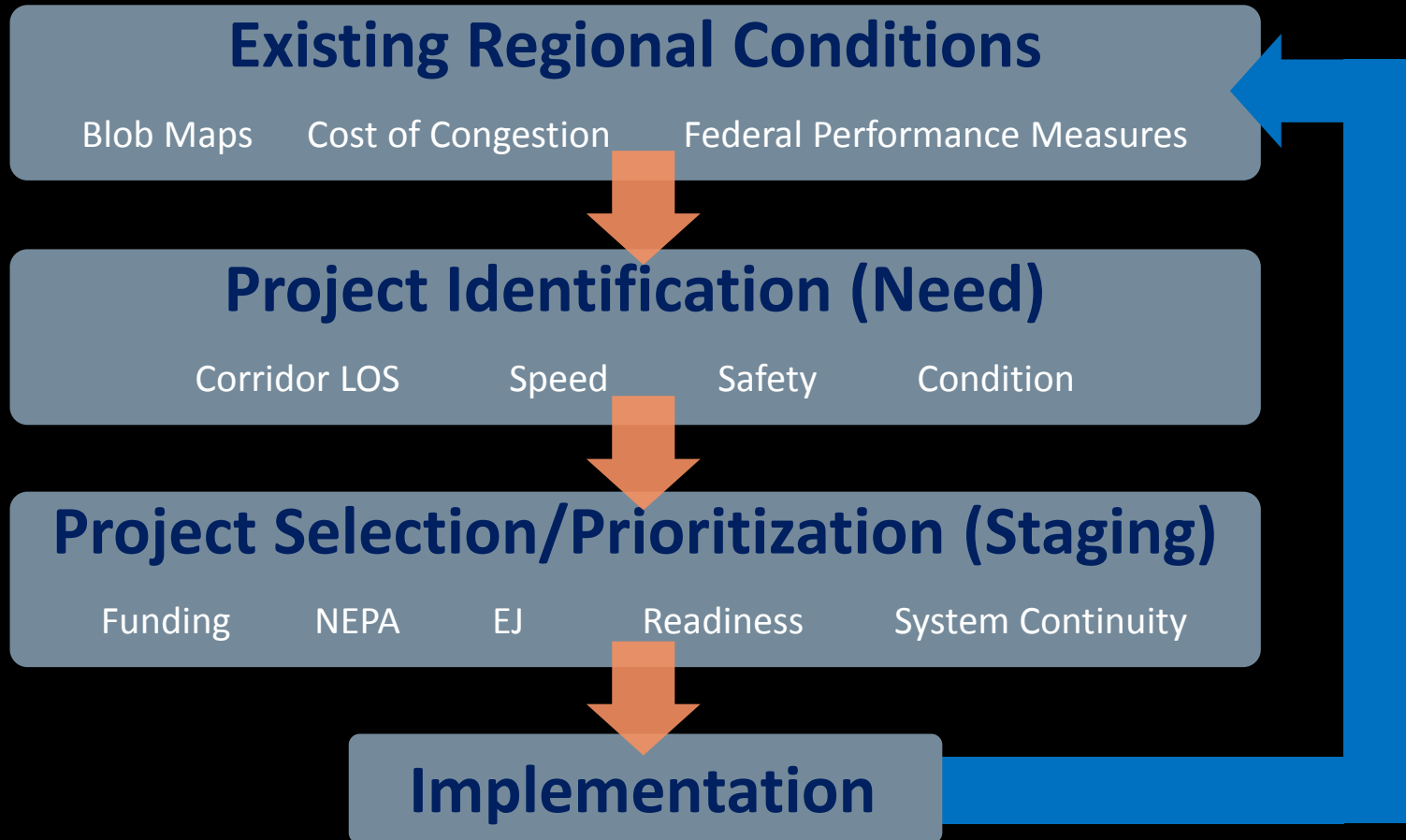


# Performance Measures

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# Performance-Based MTP Process with Federal Measures



# Mobility 2040 Roadway Performance Measures

MAP-21 Goal	Performance Measure
Congestion Reduction	Volume/Capacity Ratio
System Reliability	Speed Variance
Safety	Fatal and Serious Crash Rates
Infrastructure Condition	Pavement Condition Score
Freight Movement and Economic Vitality	Employment Density
	Truck VMT Percent
Environmental Sustainability	Environmental Justice







# Mobility 2045 Plan

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# Mobility 2045 Progress

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Reviewed Mobility 2040 Projects

Calculating 2045 Revenue Forecast

Coordinating with Partners

Held Initial Public Meetings



Conducting Online Survey

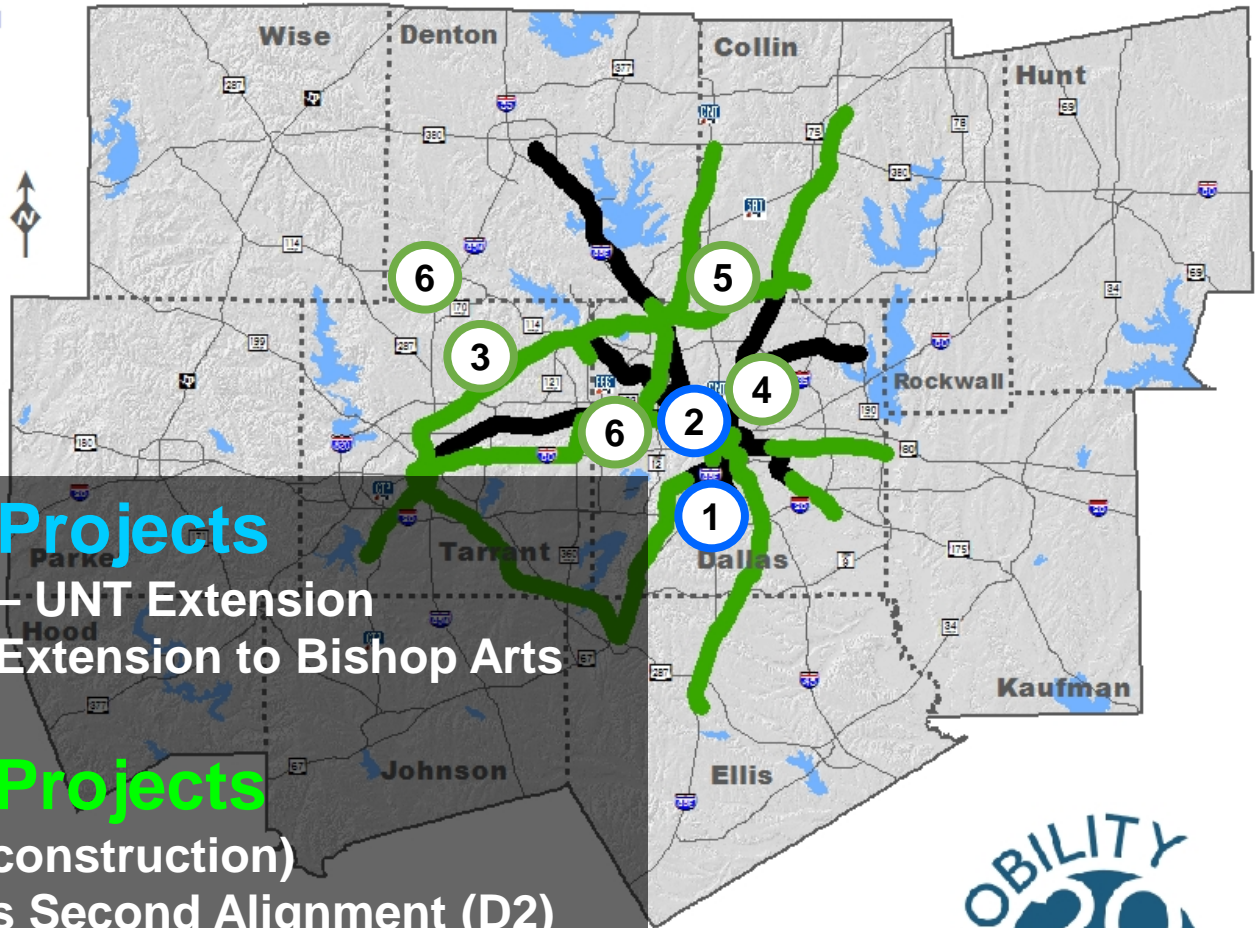
On Schedule!!

**WORK IN  
PROGRESS**  
CHECK BACK SOON



# 2040 Transit Recommendations





-  Recommended Rail
-  Existing Rail



## Completed Projects

-  1 DART Blue Line – UNT Extension
-  2 Dallas Streetcar Extension to Bishop Arts

## Advancing Projects

-  3 TEX Rail (under construction)
-  4 Downtown Dallas Second Alignment (D2)
-  5 Cotton Belt Rail Line
-  6 IH 30 Express East and IH35W Express High Intensity Bus (funded)

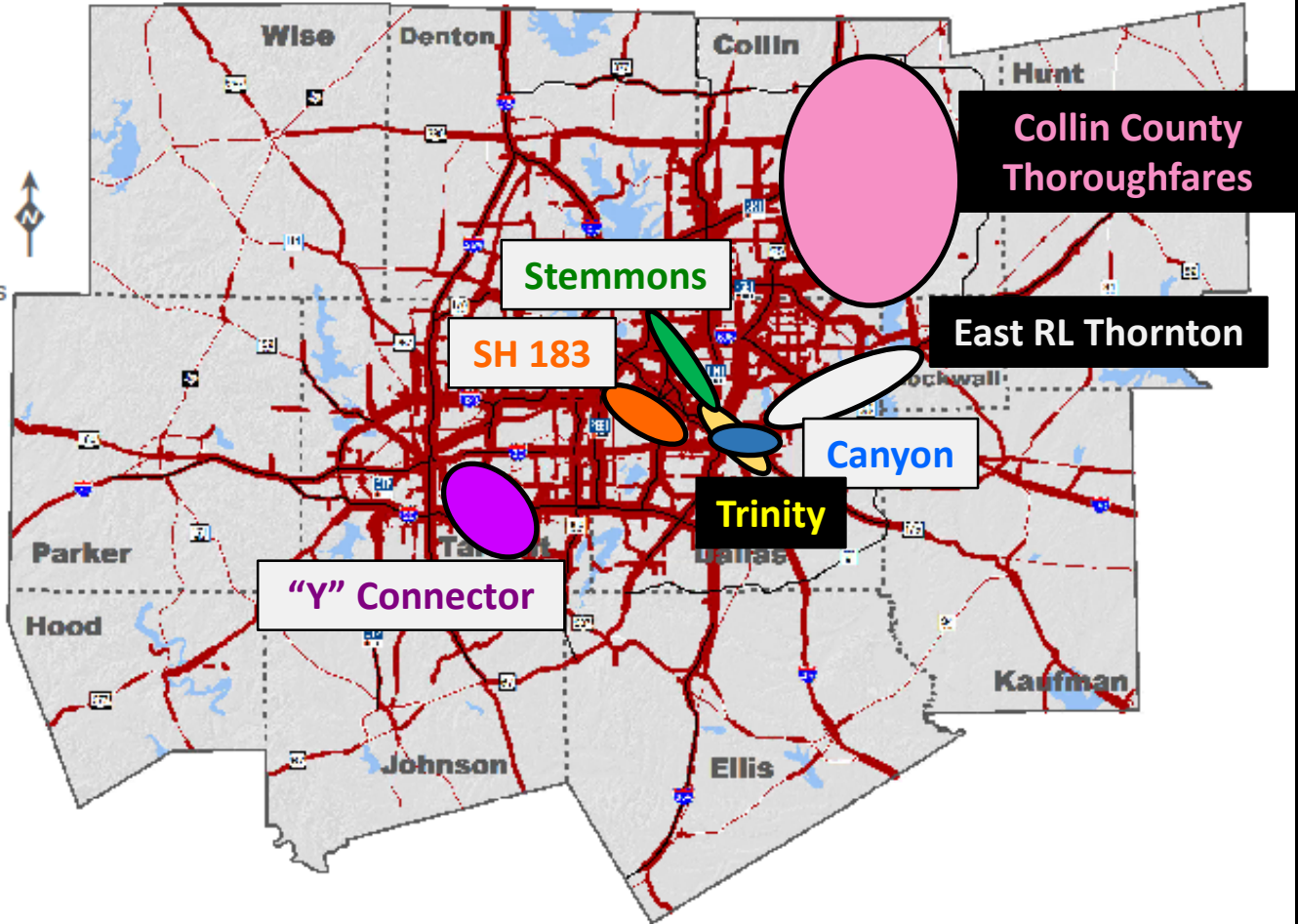


Facility recommendations indicate transportation need. Corridor-specific alignment, design, and other characteristics will be determined through ongoing project development.



# Emphasis Areas

- All-or-Nothing Demand
- Less Demand
- More Demand
- Mobility 2040 Recommendations



# Mega-Projects

All-or-Nothing Demand

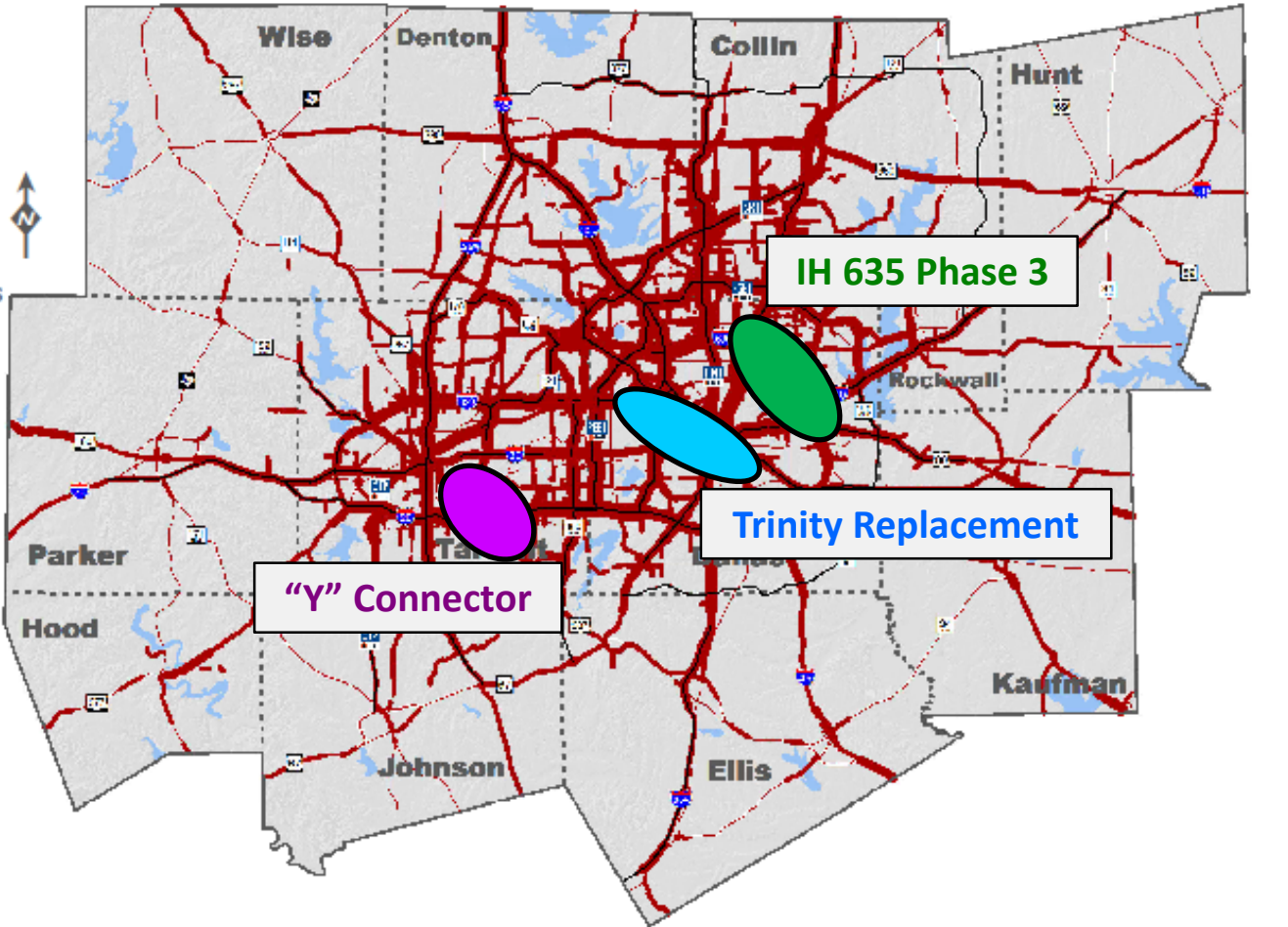
Less Demand



More Demand

Mobility 2040

Recommendations



Dallas CBD



Fort Worth CBD



North Central Texas  
Council of Governments

September 2017

# Upcoming Initiatives

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Continue Partner Meetings

Review Performance Measures  
and Propose Targets

Prepare for October Public Meetings

Prepare for RTC Workshop – October 12

Top Ten Things to Consider



# Top 10 Things to Consider

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## 1. Trinity Parkway Response

IH 35E (Stemmons), IH 30 (Canyon), SH 183

## 2. Southeast Connector – The “Y”

Lane Balance (IH 20, IH 820, US 287)

## 3. CityMAP Recommendations

IH 30, IH 345



# Top 10 Things to Consider

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## 4. Collin County Mobility

US 75, Collin County Strategic Plan

## 5. Tunnel Connecting IH 35E to US 75

Crosstown Connector

## 6. Toll Island Policy

Where to Recommend Toll Roads & Managed Lanes

## 7. Revenue Assumptions

TxDOT UTP, Federal/State Inconsistency





# Top 10 Things to Consider

---

## 8. Public Transportation

HSR, MagLev, Regional Funding, High Intensity Bus (HIB) in Managed Lanes

## 9. Performance Measures and Targets

HB 20 and Federal Requirements

## 10. Solve Tomorrow's Problems Today

Next Round of Mega-Projects



# Top 10 Things to Consider

---

## 11. Performance Measures

Federal Requirements

Local Preferences





# Mobility 2045 Survey

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# Mobility 2045 Survey

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- 2,928 Survey Responses
- Q4 – Important Improvement Strategies?  
(Very/Somewhat)

- ➔ 96% – Maintain and Operate Roads
  - 56% – Reduce SOV Trips
- ➔ 82% – Develop More Transit
- ➔ 69% – Increase Road Capacity
  - 66% – Increase Bike and Ped Facilities



# Questions

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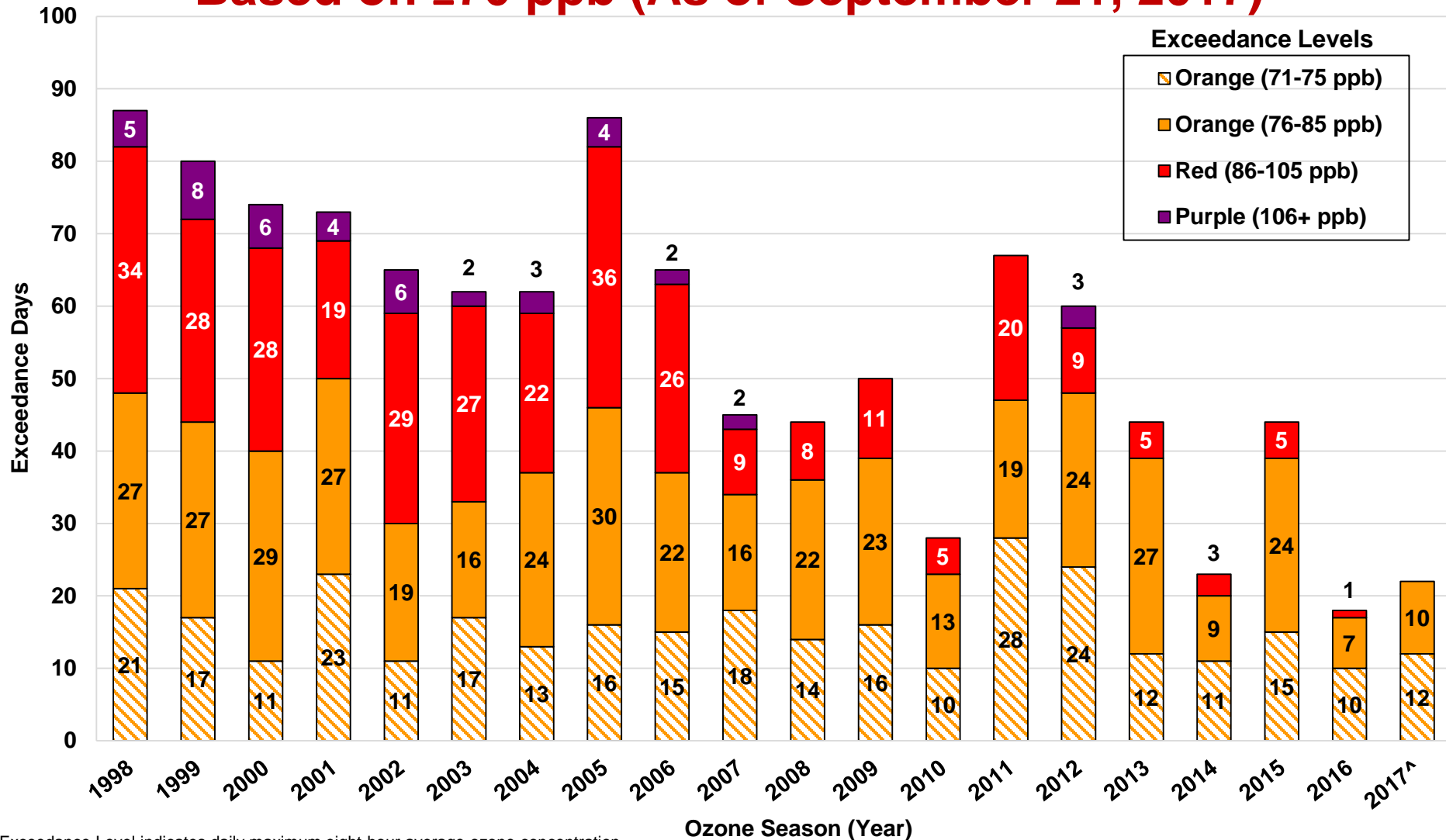
(817) 704-2529

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# EIGHT-HOUR NAAQS FOR OZONE HISTORICAL TRENDS

Based on  $\leq 70$  ppb (As of September 21, 2017)



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.

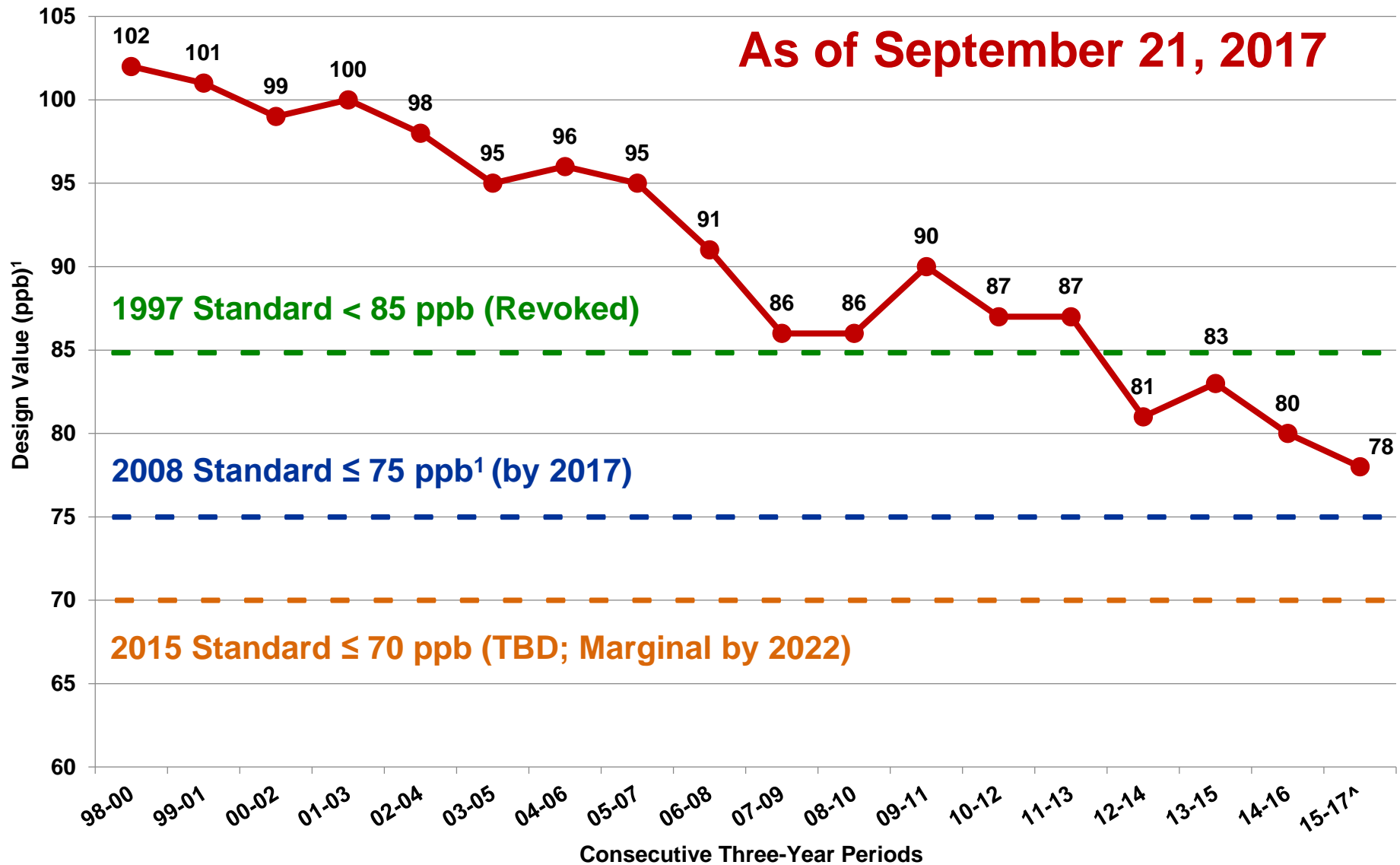
 = Additional level orange exceedance days under the revised standard that were not exceedances under the previous 75 ppb standard. (AQI level orange = 71-75 ppb)

<sup>A</sup>Not a full year of data.

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

# EIGHT-HOUR NAAQS FOR OZONE HISTORICAL TRENDS

As of September 21, 2017



<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).

<sup>^</sup>Not a full year of data.