

# START OF 2020 OZONE SEASON; A NEW DAY

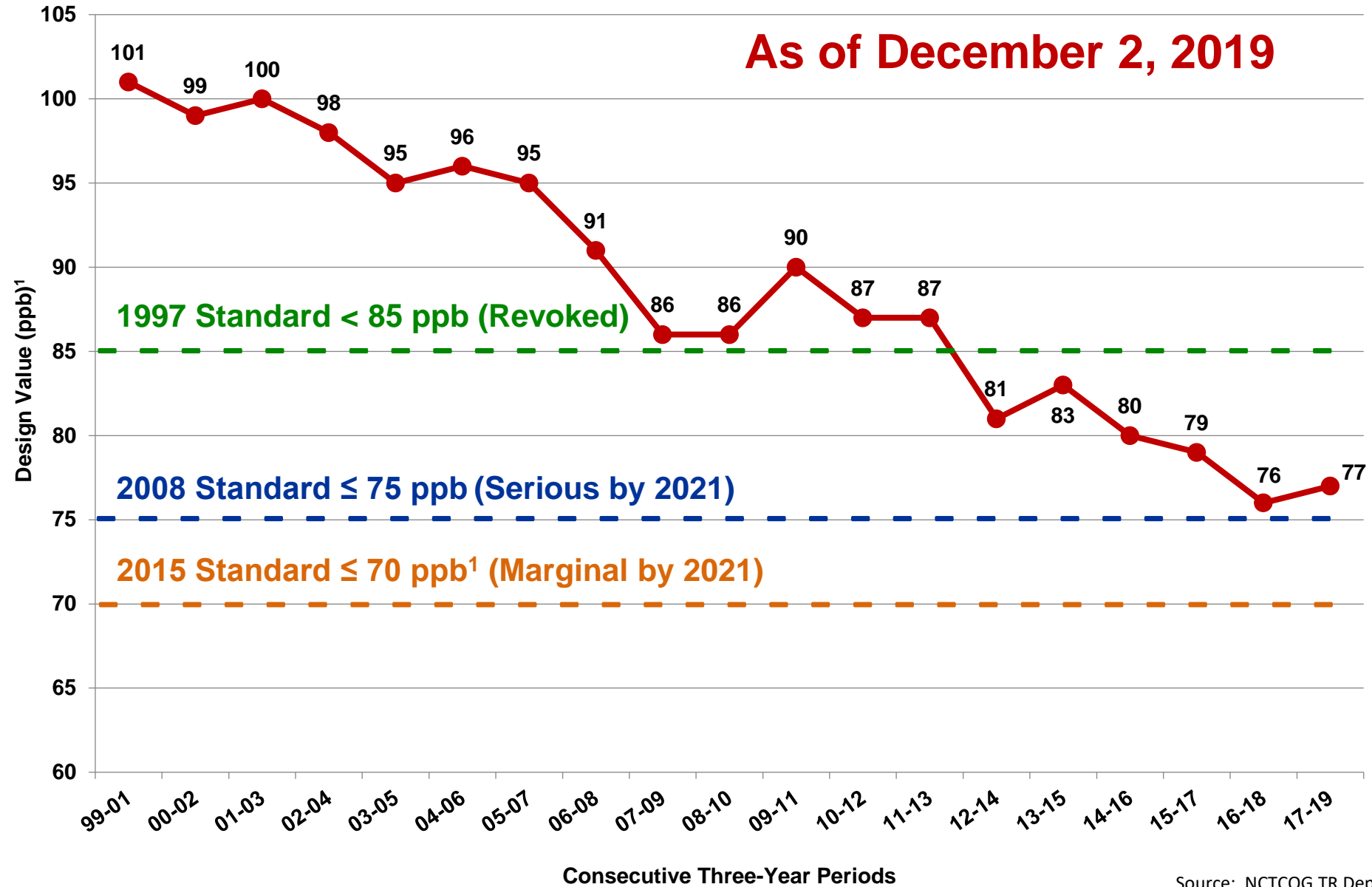
**Surface Transportation Technical Committee • March 27, 2020**

**Jenny Narvaez, Program Manager**



North Central Texas  
Council of Governments

# 8-Hour Ozone NAAQS Historical Design Value Trend



Source: NCTCOG TR Dept

<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).

# 2020 Transportation Trends

## Additional Monitoring Into the Future:

Vehicle Miles Traveled

Heavy-Duty

Medium-Duty

Light-Duty

Gasoline Sales

Diesel Sales

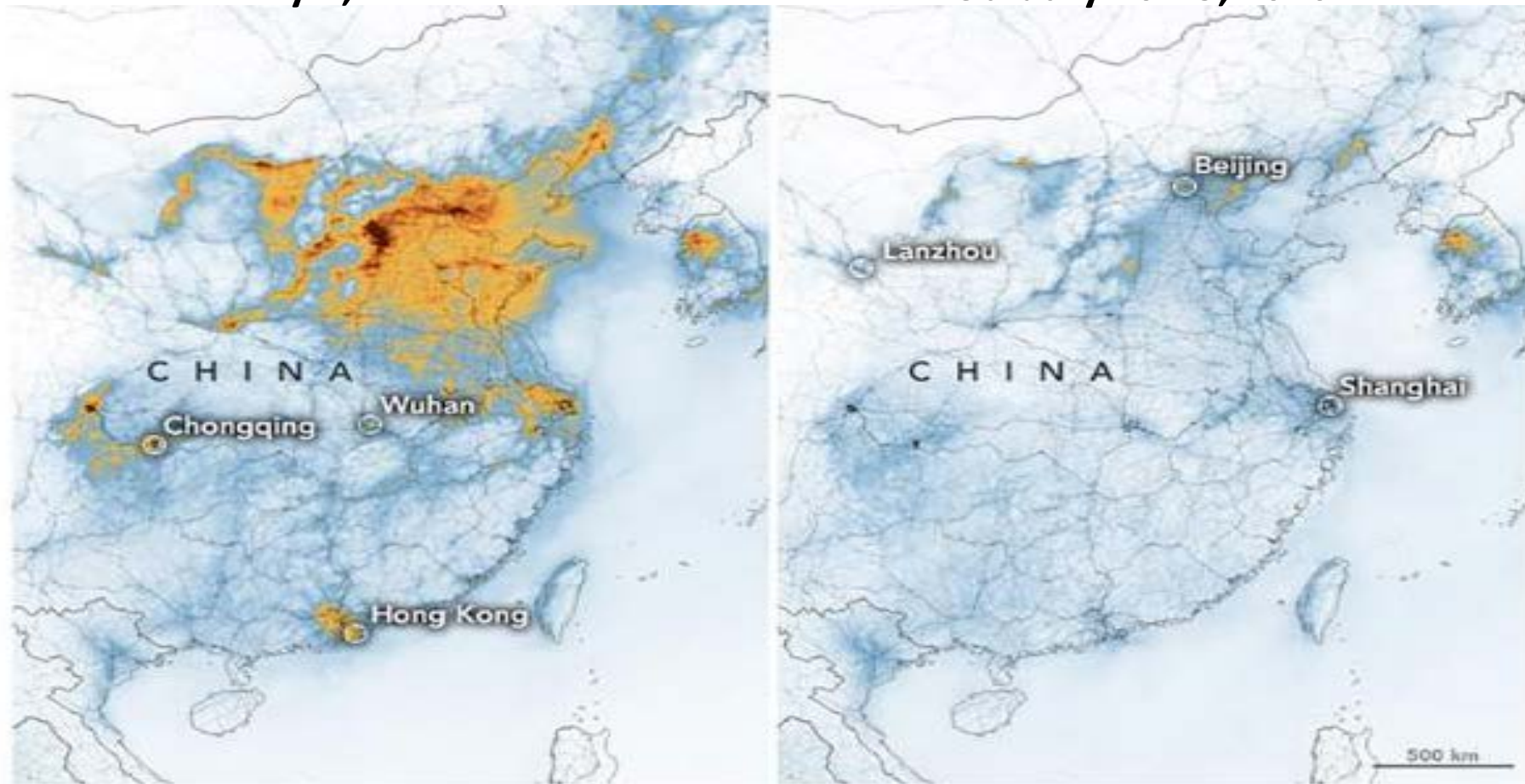
Transit Ridership

Daily Congestion During Peak Period

# NITROGEN DIOXIDE EMISSIONS IN MAJOR CHINESE CITIES

January 1, 2020

February 10-15, 2020

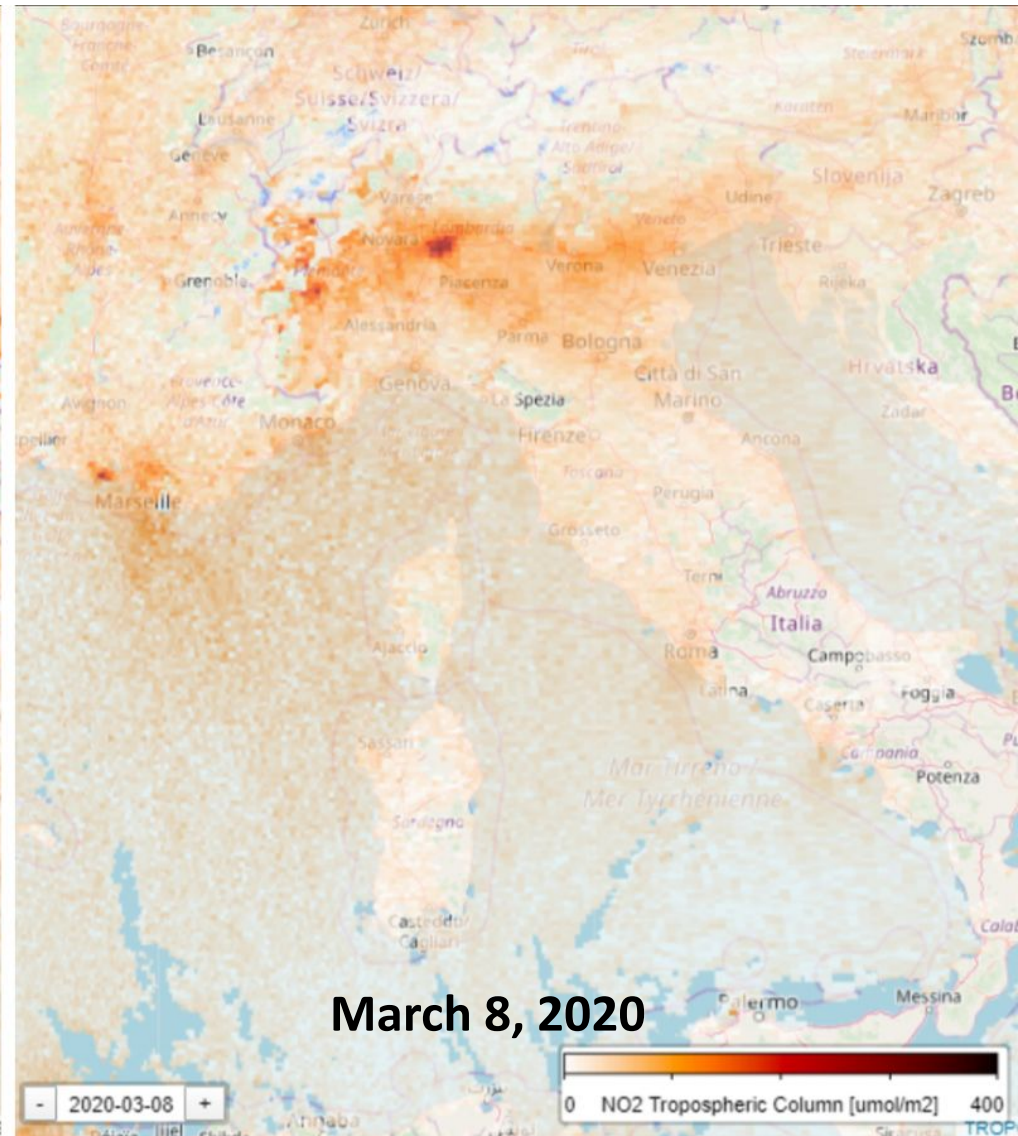
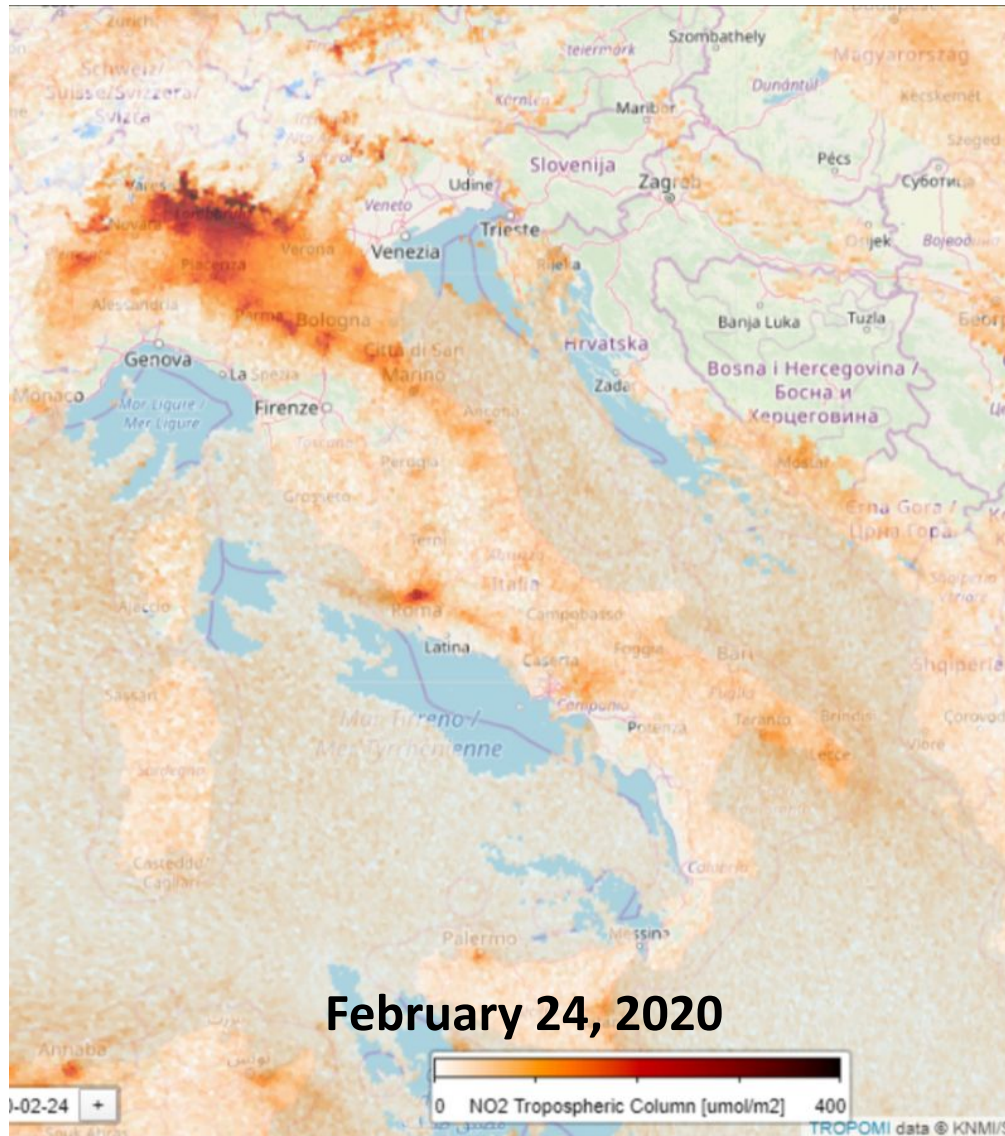


Mean Tropospheric NO<sub>2</sub> Density ( $\mu\text{mol}/\text{m}^2$ )

0 125 250 375  $\geq 500$



# NITROGEN DIOXIDE EMISSIONS IN ITALY



# Importance of 2020 Ozone Season

**The third of three-year cycle that will determine next phase**

**Two ways to measure success:**

- 1. Collectively, all monitors have a 2018-2020 design value at or less than the ozone standard = Attainment**
- 2. Individually, each monitor has a 2020 design value at or less than the ozone standard = 1-year Extension**

**Staff will monitor and provide monthly updates throughout the ozone season**

# For More Information

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





# Transit-Oriented Development Parking Study

Surface Transportation Technical Committee | March 27, 2020

Travis Liska, Senior Transportation Planner



**North Central Texas  
Council of Governments**



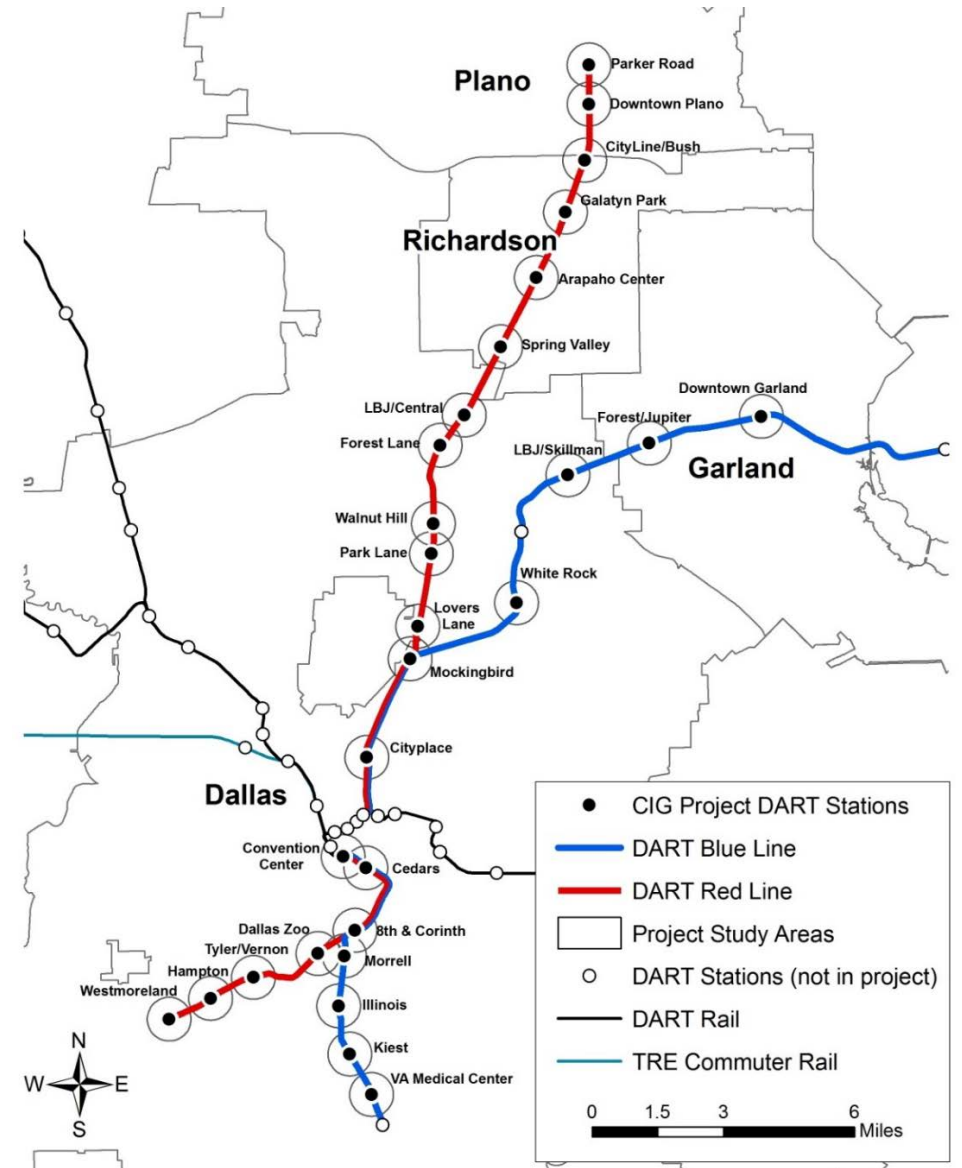
# TOD Planning Pilot

Federal Transit Administration Grant to NCTCOG in 2016 - \$1.75 million

Partnership: NCTCOG, DART, Dallas, Richardson, Plano, Garland

1. First/last pedestrian mile
2. **Parking**
3. Survey TOD residents, businesses, employees

Goal: Increase TOD and ridership in corridors



# Parking Challenges to TOD

**Subsidizes** driving, reducing the economic incentive to use other modes or carpool (parking is free, but DART day pass = \$6)

**Increases** the cost of development (\$17K - \$40K per space)

**Expands** geometry to often unwalkable scale

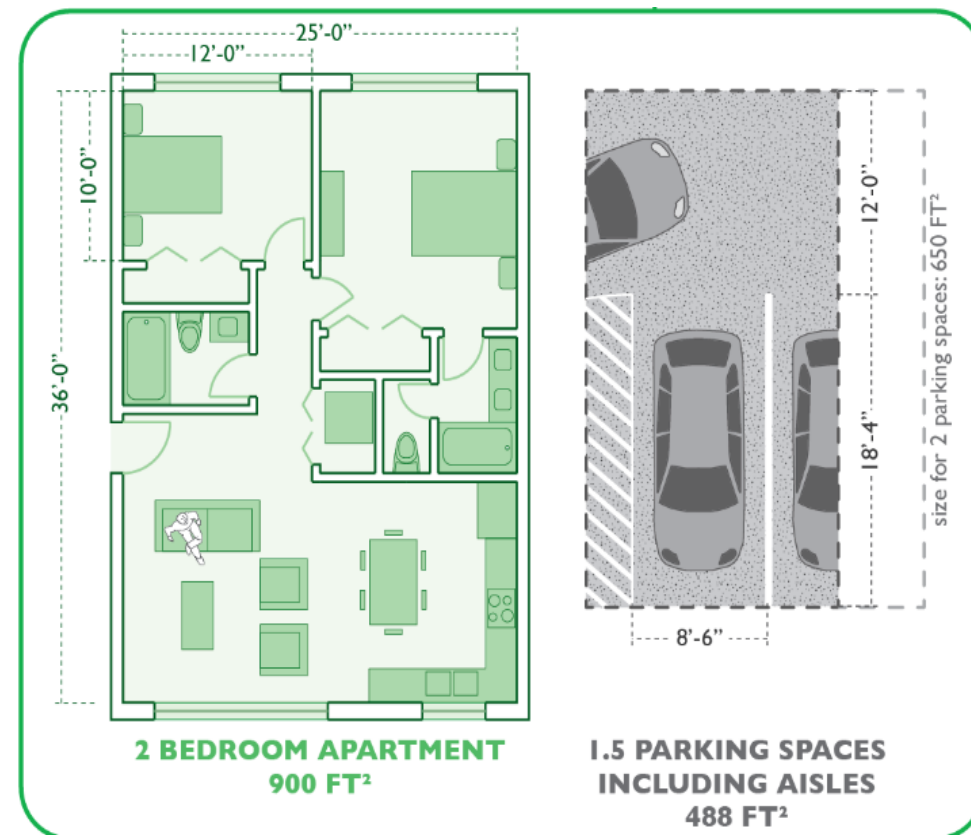
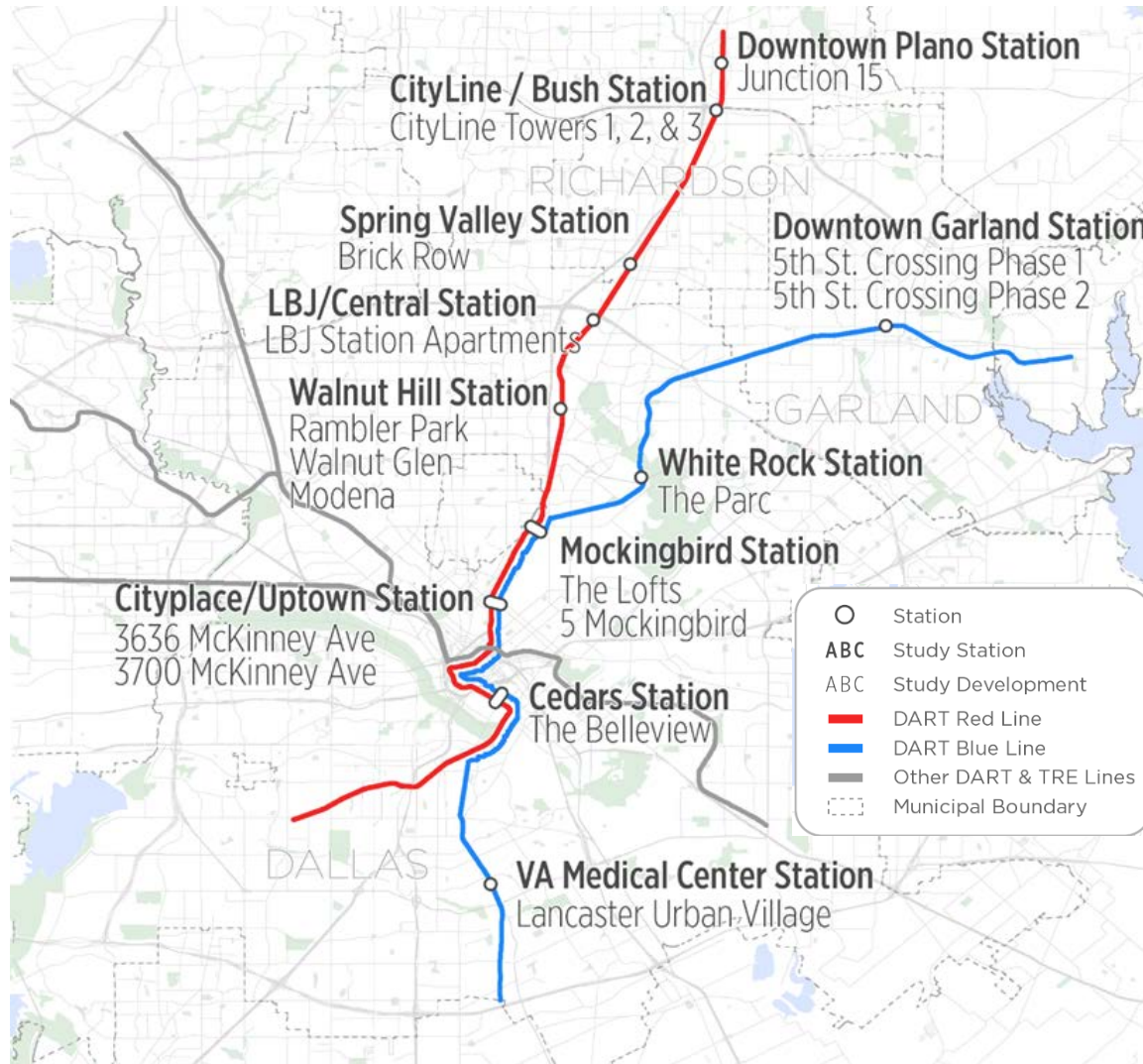


Image source: Graphing Parking - <https://graphingparking.com/>

# TOD Parking Study



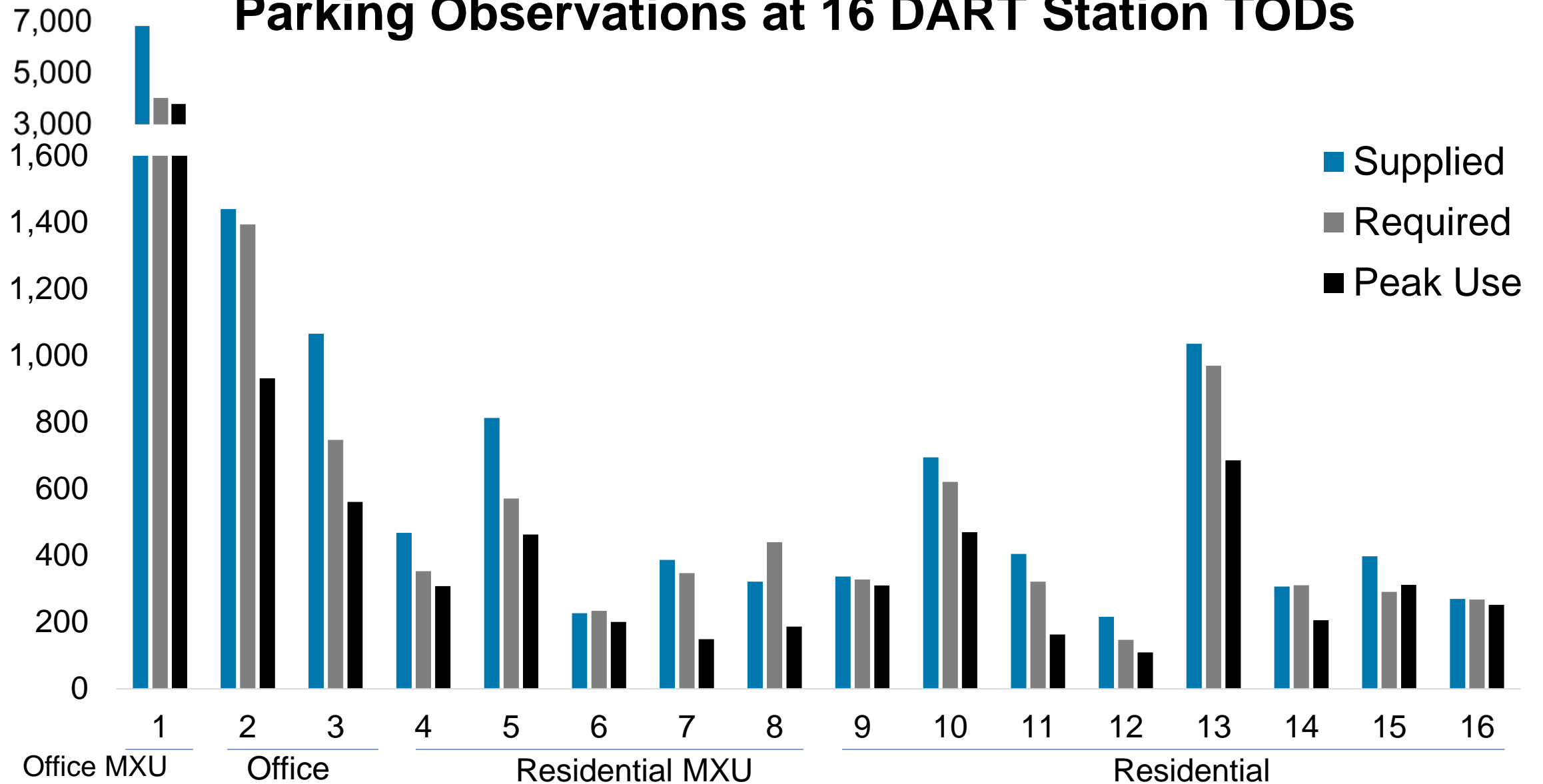
Goal – local data for TOD-appropriate parking policies

72 hours continuous data collection at each of 16 privately owned sites

All sites within walking distance of DART Stations



# Parking Observations at 16 DART Station TODs

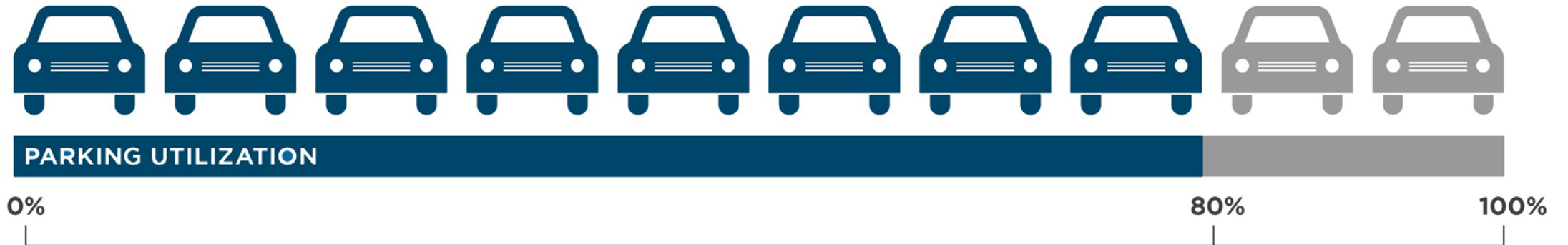




# Excess Capacity

13 of 16 sites never peaked above 80% utilization.

Excess parking capacity in these 13 sites totaled over 4,500 spaces



# Workforce Housing

**Cost:** garage spaces (\$17k to \$40k per space) – 4,500 vacant spaces total value at least \$80 million

**Transit riders:** Majority in region have a HH income under \$50k (2014 regional transit survey)

**Finding:** Two workforce housing TODs in this study, peak parking use:

- Lancaster Urban Village (40%)
- The Belleview (50%)

Less parking demand than other multi-family housing



# Public Private Coordination

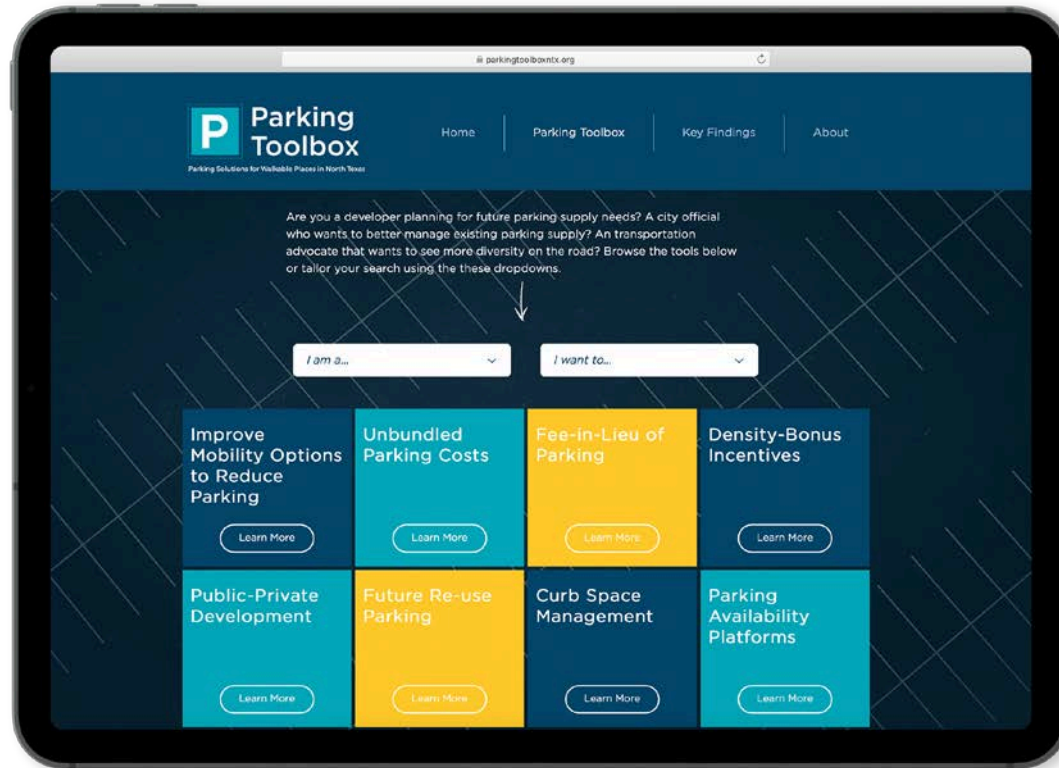
**Minimum** city requirements were exceeded by developers at most sites

**Influence** of commercial real estate private sector is important to parking supply

**Communication** beyond/ with developers to educate brokers and lenders is needed



# Report and Recommendations



[www.parkingtoolboxNTX.org](http://www.parkingtoolboxNTX.org)

15 strategies/policies toolbox

Final report/data summary





# Parking Toolbox



## EFFICIENCY

Shared / public parking

## Data-driven Parking

Maximums

## Reduce/ Eliminate

Minimums

## Unbundle

Parking



## SMARTER CITY CODES



## TECHNOLOGY

Availability web/ app platforms



# Contact

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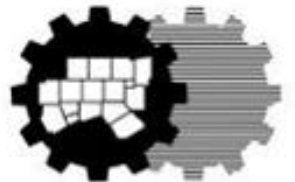


# **Auto Occupancy/High- Occupancy Vehicle Quarterly Report**

**Surface Transportation Technical  
Committee Meeting**

**March 27, 2020**

**Natalie Bettger**



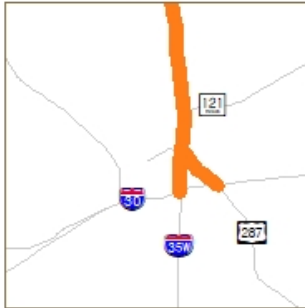
**North Central Texas  
Council of Governments**

# Near Term Managed Lane System Openings

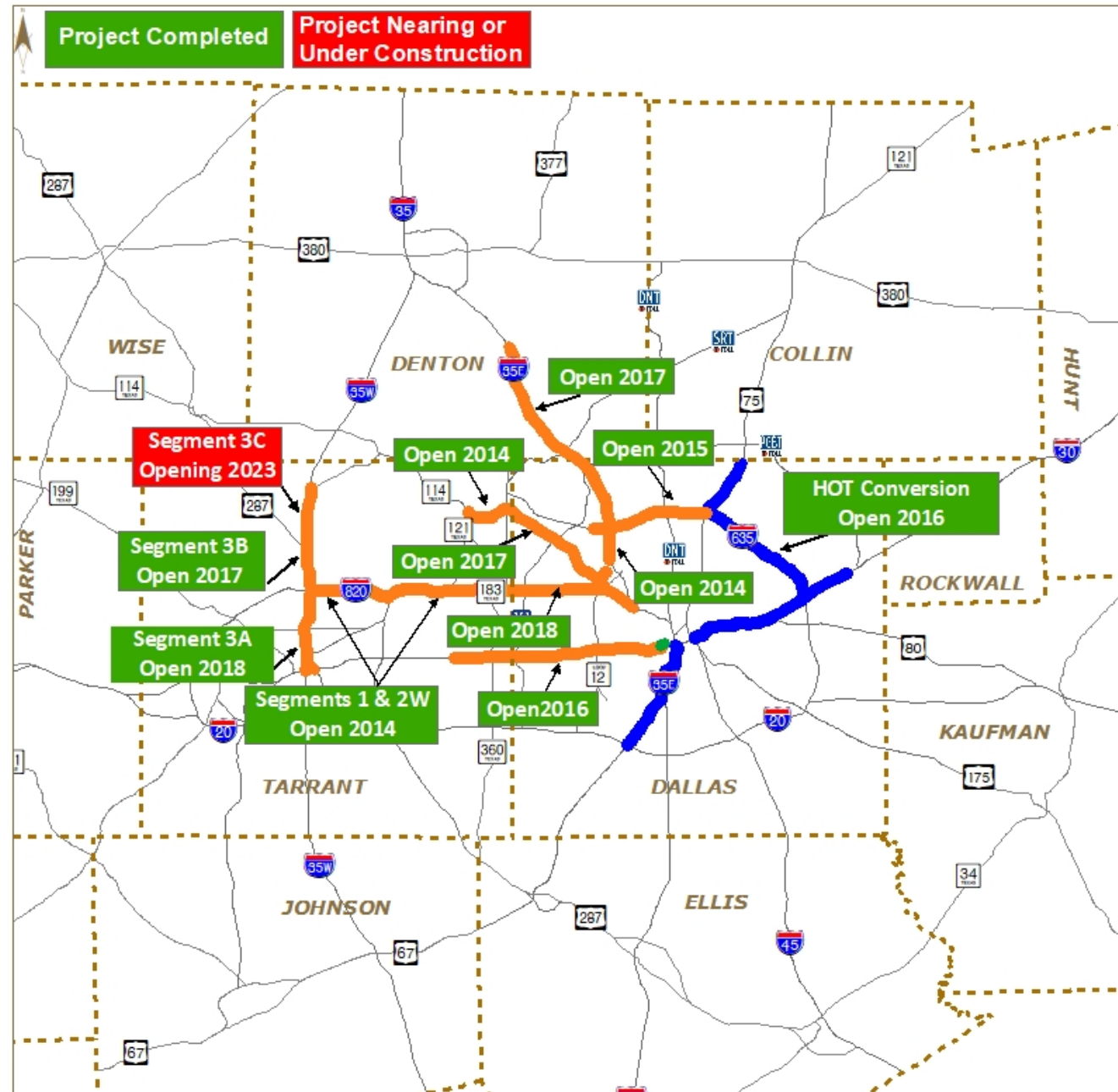
**Current Express/HOV + New Managed Lanes**

- 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 – January 2020*

How much HOV 2+ Subsidy has the RTC been responsible for?

*\$5,572,635 as of January 2020*

How much of the Vanpool Toll reimbursement has the RTC been responsible for?

*\$ 12,264 from October 2014 – February 2020*

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 – January 2020*

Facility	HOV 2+ Subsidy Costs	NTTA Customer Service (Additional Needs)	Project Performance Events (Speeds < 35 mph)
<b>North Tarrant Express</b> <ul style="list-style-type: none"><li><i>SH 183/121 from IH 35W to SH 121</i></li><li><i>IH 35W from IH 30 to US 287</i></li></ul>	\$2,518,184	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>	\$3,054,451	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



Update

Automated Vehicle Occupancy Verification

Through Friday, March 20, 2020



# HOV Users

January 24 – March 20, 2020



Website Visits: 61,233

Users: 29,780

Vehicles: 26,210

Occupant Passes: 5,531



# HOV Discount Data Monitoring

January 24 – March 20, 2020

Total Transactions – 394,207

LBJ / NTE Partners – 195,232

TxDOT – 198,975

Total HOV Transactions – 152,698 (~40%)

LBJ / NTE Partners – 76,477

TxDOT – 76,221

Unique Transactions – 20,688

LBJ / NTE Partners – 12,004

TxDOT – 8,684

# Violation Identification



Big Data Usage Analysis

→ Ongoing analysis of usage data for consistent, coordinated unusual patterns indicative of potentially violating the GoCarma terms of services (e.g. person carries 2nd phone).

Notification 1

→ Escalating email and in-app notifications, reminding the user of correct usage.

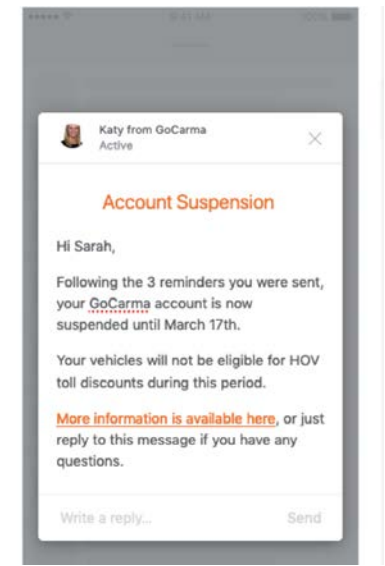
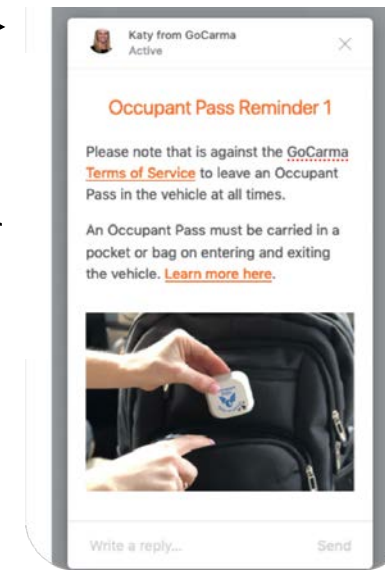
Notification 2

→ Hopefully, the user will change their behavior and avoid a suspensions of their GoCarma account.

Notification 3

Suspension Period

→ User's vehicles are suspended from HOV eligibility for an initial 30-day period.



# Future Data Items

- Total and HOV Transactions by Corridor
- Average Speed on Managed Lane by Corridor
- Average Speed on General Purpose Lanes by Corridor
- Others?

# Questions/Contacts

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# BUILD Grants

Better Utilizing Investments to Leverage Development Transportation Discretionary Grants Program

Source: USDOT BUILD Discretionary Grants - [www.transportation.gov/BUILDgrants](http://www.transportation.gov/BUILDgrants)

March 27, 2020

Surface Transportation Technical Committee  
Information Item – Program Overview and Notice of Funding Availability

# BUILD Discretionary Grant Program

## Program Overview

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- **BUILD – Better Utilizing Interests to Leverage Development**
- **\$1 Billion Available Nationwide in FY 2020:**
  - Award Request: Max. – **\$25 Million**; Min. – **\$5 Million** (Urban)/**\$1 Million** (Rural)
  - Distribution: Max. ≤ 10% per State; 50% Rural/50% Urban
- **Application Submittal Deadline – May 18, 2020**
- **BUILD Award Announcement Deadline – September 15, 2020**
- **Obligation Deadline – September 30, 2022**
  - Signed/executed agreement between USDOT and Grant Recipient
  - Completed environmental clearance, design, and right-of-way acquisition required
- **Expenditure Deadline – September 30, 2027**
- *As of yet, no announcements have been made of possible COVID-19 impacts*



# BUILD Discretionary Grant Program

## Issues Affecting Regional Project Selection

3

- Texas Transportation Commission approval *required in advance* for projects where TxDOT could be requested to act as grant recipient and/or implementing agent on behalf of a local government applicant
- Majority of recent submittals (BUILD, INFRA, TIGER, FASTLANE, etc.) and existing project commitments (MTP, 10-Year Plan, TIP, etc.) for on-system roadways were funded through other means
- **Likely submittal outcome: 1 rail project (east/west); 2 roadway projects (one each east/west)**



# BUILD Discretionary Grant Program

## Potential Project Candidates

4

### ■ Rail –

- *North Texas MOVES Program (BNSF, DART, Trinity Metro)* ✓

### ■ Roadway (East) –

- *IIPOD Enhanced Mobility Project (Dallas County)* ✓
  - Select thoroughfare improvements
  - Advanced transit connectivity

### ■ Roadway (West) –

- *East-West Connector (DFW Airport/FAA)* ✓

### ■ **Project funding sources, amounts, and BUILD Grant requests to be determined**

### ■ **Additional candidate recommendations welcome through Friday, April 3, 2020**

- All candidate projects must be consistent with the Mobility 2045 Plan
- Local governments/transportation partners encouraged to submit candidate projects not selected by NCTCOG

✓ = Preferred Selection (tentative)

# BUILD Discretionary Grant Program

## Proposed Submittal Timeline

5

- |                          |  |
|--------------------------|--|
| <b>February 18, 2020</b> | BUILD Grant Notice of FY 2020 Opportunity Announced  |
| <b>March 27, 2020</b>    | <b>STTC Information (Identify Candidate NCTCOG Projects)</b>   |
| <b>April 3, 2020</b>     | Deadline for Candidate Project Recommendations   |
| <b>April 24, 2020</b>    | STTC Action (Project Scope, Cost Estimates, & Funding Sources Finalized)   |
| <b>May 1, 2020</b>       | Request Deadline for Letters of Support (Other Candidate Projects)<br>Send to Rebekah Hernandez - <a href="mailto:rhernandez@nctcog.org">rhernandez@nctcog.org</a> |
| <b>May 14, 2020</b>      | RTC Action   |
| <b>May 18, 2020</b>      | <b>BUILD Application Submittal Deadline - <a href="http://www.grants.gov">www.grants.gov</a></b>   |
| <b>May 28, 2020</b>      | Executive Board Endorsement (NCTCOG Projects)  |

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March 27, 2020

## Surface Transportation Technical Committee

Information Item – Program Overview and Notice of Funding Availability