TRB/IBTTA HOV Declaration and Enforcement Webinar

It's not about Enforcement. It's about

Verification.

Dan Lamers, P.E.

NCTCOG





Managed Lane System



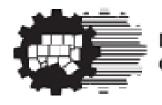
Dallas CBD

351

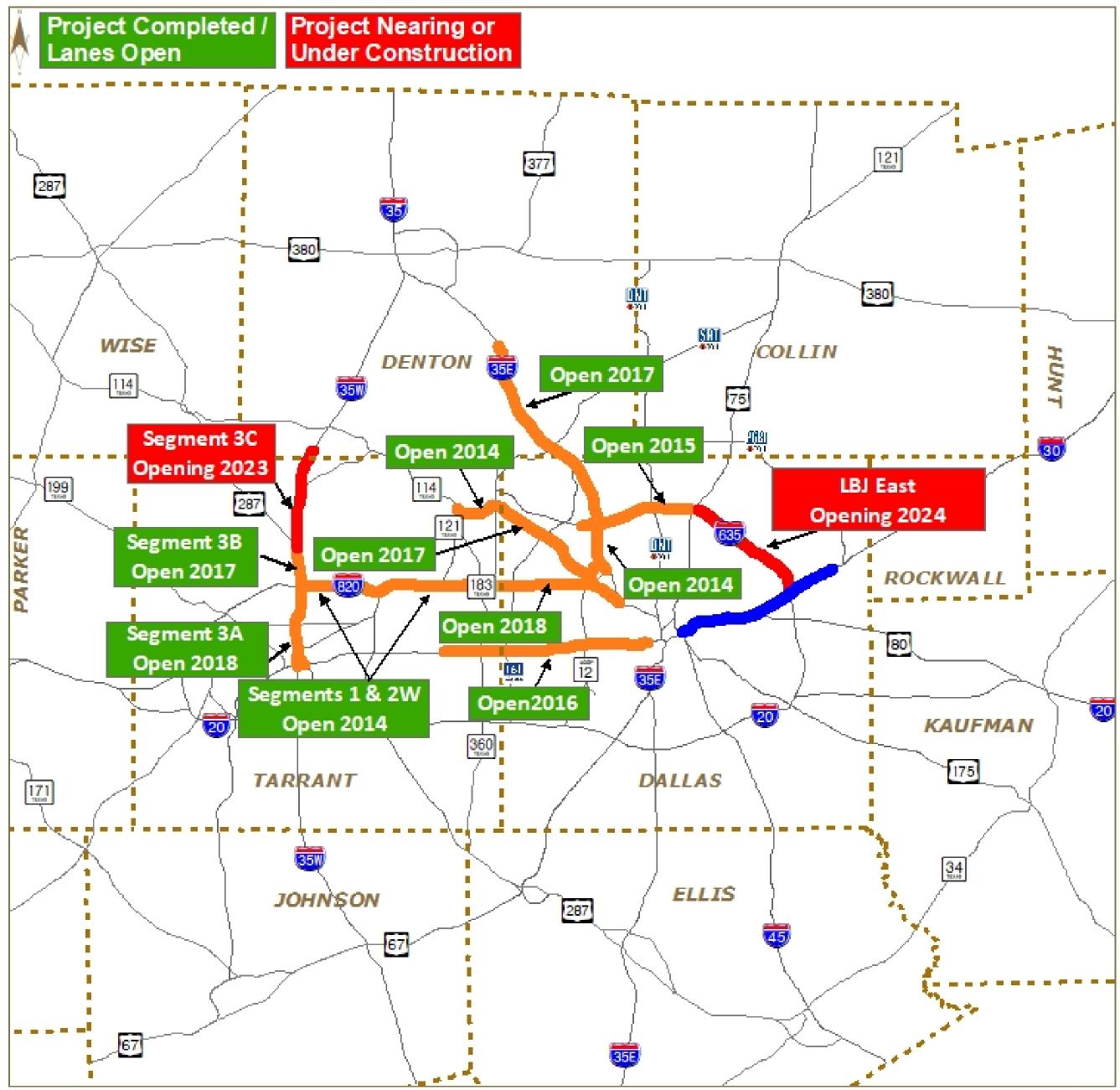
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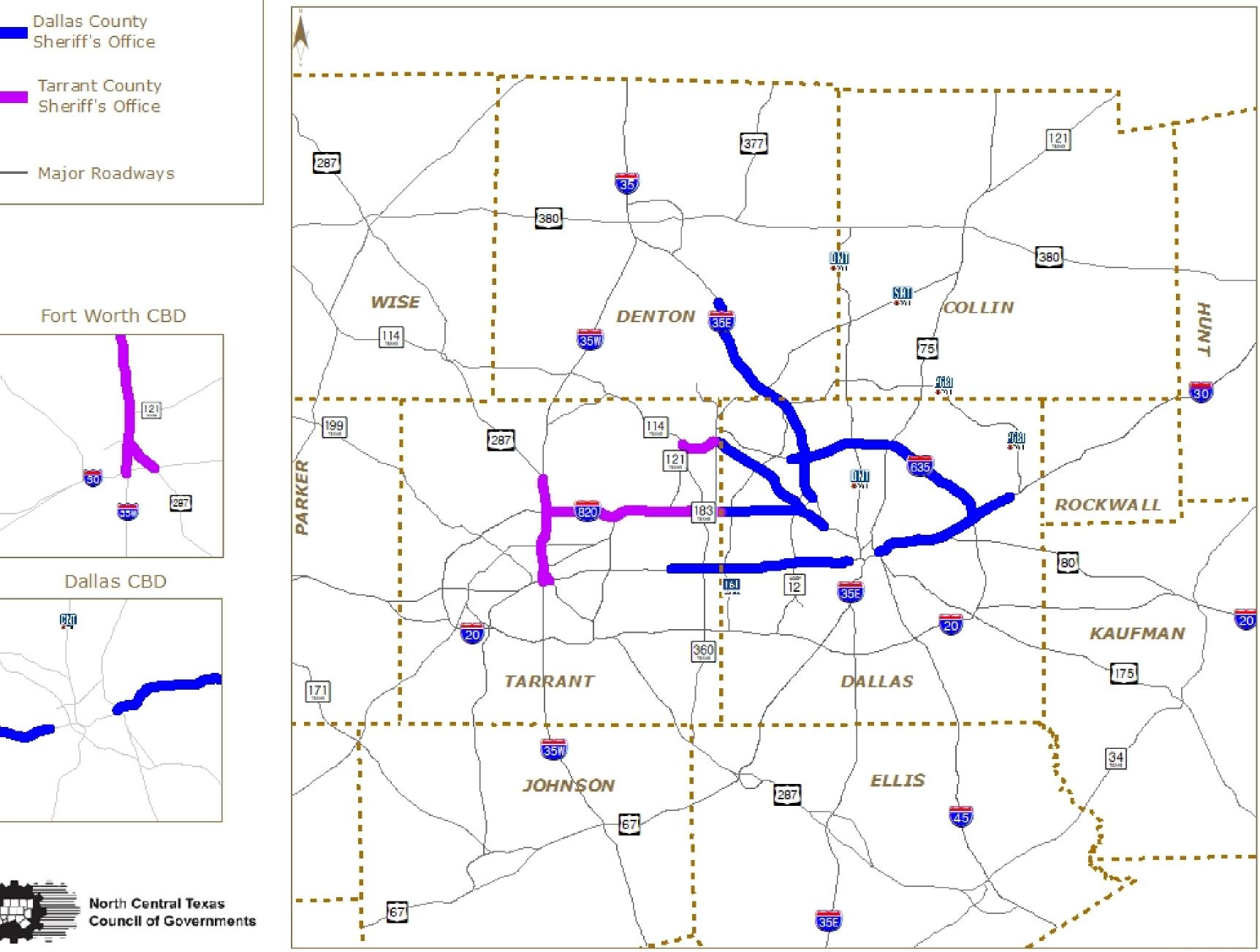
North Central Texas Council of Governments



October 27, 2020



Managed Lane Enforcement



October 28, 2020



Challenges to Former HOV Enforcement Structure

HOV ENFORCEMENT CHARACTERISTICS

HOV Registration	15-minut
Monitoring of Lanes	Too cosLack su
Manual HOV Counting	Difficulty speed He
Maintaining Safe Operations	High spe • Officers • Pulled-o • Other H
Reliability of Operations	 Purpose consiste Officer corridor
Violation Rate	 More ve complia Dallas (District

CHALLENGES

- te pre-registration required
- stly
- ufficient number of enforcement officers
- / in accurately counting number of occupants in high-IOV corridors
- eeds and limited R.O.W. create dangerous conditions for:
- over HOV users
- HOV users passing by
- se of HOV facilities to allow entire corridor to flow more tently
- HOV enforcement slows all traffic, negatively affecting or reliability
- vehicles in violation than officers enforcing HOV
- ance
- County reported 30% violation rate on US 75
- t Attorneys not prosecuting violations



Transition from Enforcement to Verification





Get the GoCarma App

Each person in the car has the GoCarma app on their phone.

Setup a GoCarma Pass

A small Bluetooth device that you keep in your car's glove box.







Drive in a TEXpress Lane

The app <u>automatically</u> verifies the number of people in the car.

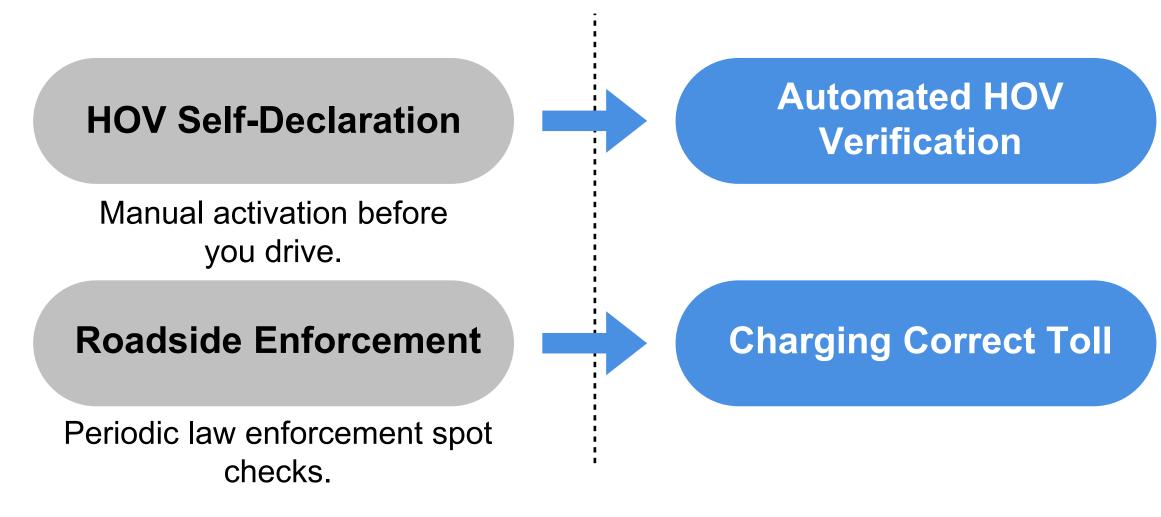
Earn HOV Discounts

Each HOV transaction will result in a discount being applied by NTTA.



Transition to GoCarma

January 24, 2020







Results in the first 9 months:

- •35,000 Users
- 30,000 Vehicles
- 800,000 Transactions
 - 40 average per active driver
 - 1.5 average vehicle occupancy
- 12,750 GoCarma support tickets
 - 4m 44s median response time
 - 21m 42s median time to close
 - 83.2% very satisfied

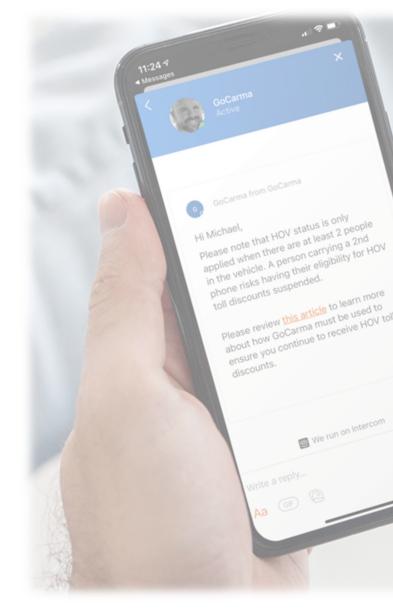




App Usage Violations

How It Works:

- Automated identification
 - Usage data analysis



- data related to coordinated proximity, movement, account/device information, etc.
- Atypical usage flagged over time
 - ▶ e.g. continuous coordinated presence of 2nd phone
- Suspension of HOV eligibility
 - Following 5 escalating in-app communications



Violation Results:

- 35,000 verified users
 - Verified by phone, email, TVL
- •2.7% app usage violation rate
 - 99% change behavior upon receiving communications
 - 23% after 1 communication
 - ► 51% after 2 communications
 - ► 73% after 3 communications
 - ► 99% after 4 communications
- <1% app suspension rate
 - 0 appeals submitted





Verification – not Enforcement

People willing to pay toll if HOV discount convenient to acquire

Enables enforcement officers to attend to other duties

ser satisfaction

Reduces demand on court system





Contact Us

Dan Lamers, P.E., Senior Program Manager dlamers@nctcog.org

nbettger@nctcog.org

Natalie Bettger, Senior Program Manager