## PERFORMANCE MEASURES: ROADWAY SAFETY AND TRANSIT ASSET MANAGEMENT

### **Regional Transportation Council**

Natalie Bettger North Central Texas Council of Governments Action Item December 14, 2017

## Background

Federal legislation specifies quantitative performance measures that must be tracked and reported annually

Today's presentation requests action for two performance areas: Highway Safety Improvement Program (PM1) Transit Asset Management

Two additional performance areas will be presented in Spring 2018: Infrastructure Condition (PM2) System Performance/Freight/Congestion Mitigation and Air Quality (PM3)

Proposed targets were prepared in coordination with the State and regional partners

## NCTCOG Safety Target Recommendations

Safety Performance Targets	TxDOT 2018 Targets	NCTCOG 2018 Targets
No. of Fatalities	3,704	665
Fatality Rate	1.432	0.96
No. of Serious Injuries	17,565	3,612
Serious Injury Rate	6.74	5.18
No. of Non-motorized Fatalities and Serious Injuries	2,151	560

Targets are based on five-year averages and will be revisited annually.

Two percent reduction achieved by the year 2022.

Regional Safety Position: Even one death on the transportation system is unacceptable. Staff will work with our partners to develop projects, programs, and policies that assist in eliminating serious injuries and fatalities across all modes of travel.

#### NCTCOG Safety Projects and SHSP Emphasis Areas

	TxDOT Strategic Highway Safety Plan Emphasis Areas						
NCTCOG Programs and Projects	Distracted Driving	Impaired Driving	Inter. Safety	Older Road Users	Bike/Ped Safety	Rdwy. & Lane Depart.	Speeding
Driver Behavior Social							
Marketing Campaign	X	Х		X	Х		X
Inter. Safety Imp. Plan (ISIP)			Х	Х	Х		
Traffic Signal Retiming Prog.			Х				
Traffic Signal/Intersection Improvement Prog.			Х				
WWD Mitigation Prog.		Х	Х	Х		Х	
Traffic Signal Cloud Data	Х	Х	Х	Х			
Look Out Texans					Х		
Reg. Pedestrian Safety Plan					Х		
Technical Training/Workshops	Х		Х		Х	X	
Safety Spot Improvement Prog.					Х		
Trans. Alternative Funding					Х		
Emerging Technology Investment Prog.	X		Х			x	
Freeway Management and		Ň					
HOV Enforcement Prog.	X	Х				X	X

### **Transit Asset Management**



### Proposed Regional Targets for 2018

	Asset Category	Target	Metric
Emphasis Area #1	Rolling Stock (transit vehicles)	0%	Vehicles that meet or exceed the industry standard, defined as the Federal Transit Administration's Default Useful Life Benchmark
Emphasis Area #2	Infrastructure (rail track)	0%	Rail track segments with performance restrictions
	Equipment (transit support vehicles)	0%	Vehicles that meet or exceed the industry standard, defined as the Federal Transit Administration's Default Useful Life Benchmark
	Facilities (buildings, stations, park and rides)	0%	Transit facilities rated below "Adequate" (3.0) on the industry standard Transit Economic Requirements Model (TERM) scale.

## Timeline

Action	Date
STTC Information	October 27, 2017
RTC Information	November 9, 2017
Public Meetings	November 2017
STTC Action	December 8, 2017
RTC Action	December 14, 2017
Target-Setting Deadline: Transit Asset Management	December 27, 2017
Target-Setting Deadline: Roadway Safety	February 27, 2018

### **Requested Action**

Approval of regional targets for roadway safety and transit asset management as shown.

Direction to continue coordination with transit providers to standardize regional transit asset management approach.

Approval of aspirational goals for roadway safety.

"Even one death on the transportation system is unacceptable. Staff will work with our partners to develop projects, programs, and policies that assist in eliminating serious injuries and fatalities across all modes of travel."

## Contact

Transit Asset Management

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## **RTC SUCCESS**

\$28 Billion in Construction Since the Year 2000

## Leading State in Transportation Delivery in Partnership with TxDOT and NTTA

Successful Mobility Outcomes (Air Quality, Reliability and Safety)





#### SUPPLY/DEMAND RELATIONSHIP OF TRANSPORTATION REVENUES AND NEEDS



## **RE-ENGAGE STATE LEGISLATURE**

## WORK WITH CONGRESS

- 1. Why don't we collect revenue smarter?
- 2. Why is Texas sending money to other states?
- 3. Why is Texas being short changed using old formulas?
- 4. Why isn't everyone paying taxes?
- 5. Why can't we pilot test the new federal program, especially since we are one of a few donor states?

## **RE-ENGAGE STATE LEGISLATURE**

## WORK WITHIN TEXAS

- 6. Why don't we collect revenues smarter?
- 7. Why isn't everyone paying taxes?
- 8. Why can't TxDOT borrow funds when cost of construction is greater than the cost of money?
- 9. Why can't TxDOT use the credit rating of Texas and pay lower interest?
- 10. Why did the legislature reduce TxDOT's construction revenues by changing TxDOT interest payments?

## **RE-ENGAGE STATE LEGISLATURE**

### WORK WITHIN TEXAS (Cont.)

- 11. Why can't the legislature give TxDOT more reliable authority on new revenue sources?
- 12. Why does the legislature restrict transit choices that lower the need for freeway capacity, toll managed lanes and toll road lanes?
- 13. Why does Texas let tax dollars leak to neighboring states for entertainment choices?
- 14. Why does Texas resist local option revenue generation?
- 15. Why can't the legislature support new institutional structures to deliver next generation technology, rail, people mover and transportation reward programs?

## ACTION

Approve Legislative Program Advancing 15 or so Revenue Ideas

## Transportation, Housing and Urban Development Floor Amendment: Rescission of Contract Authority

#### **Regional Transportation Council**

December 14, 2017



Amanda Wilson, AICP North Central Texas Council of Governments

## Federal Legislative Update

Fiscal Year 2018 Appropriations Continuing Resolution

- Extended through December 22
- Continues FY17 Funding Levels

#### Fiscal Year 2018 Appropriations

- House Passed a FY18 Bill (H.R. 3353)
- Senate Committee Passed a FY18 Bill (S. 1655)

#### **Tax Bill Negotiations**

 House and Senate each Passed a Tax Bill, Conference Committee Negotiations Ongoing

## **Fiscal Year 2018 Appropriations**

SENATE APPROPRIATIONS	HOUSE APPROPRIATIONS
Provides USDOT with \$1.5B more funding than 2017	Provides USDOT with \$1.1B less funding than 2017
Restores TIGER grants	Cuts all funding for TIGER
(\$550M)	Cuts to transit CIG program
Funds transit Capital Investment Grants (CIG)	\$100 million for AV research
program	\$800M Highway contract
No funds for Automated Vehicle (AV) research	authority rescission, Woodall Amendment

## **Highway Authority Rescission**

#### Woodall Amendment

- Approved and Included in House Bill in September
- Strikes the language that prevents the current highway rescission from applying to safety programs and to sub-allocated Surface Transportation Block Grant Program (STBG) funds
- Strikes the proportionality clause
- Allows states more flexibility in implementing the \$800 million rescission

## **Contact Information**

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## **AIR QUALITY UPDATE**

#### **Regional Transportation Council**

#### December 14, 2017

#### Chris Klaus Senior Program Manager







#### 8-HOUR OZONE NAAQS HISTORICAL TRENDS

Based 2015 8-Hour Ozone NAAQS (≤70 ppb)



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 for the revised ozone standard of 70 ppb.

Ozone Season (Year)

^Data not certified by TCEQ

Source: TCEQ, <u>http://www.tceq.state.tx.us/cgi-bin/compliance/monops/8hr\_monthly.pl</u> 2 ppb = parts per billion



= 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)

#### 8-HOUR OZONE NAAQS HISTORICAL TRENDS



<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). ^Data not certified by TCEQ

#### DEMOGRAPHIC AND DESIGN VALUE HISTORICAL TRENDS



#### **NO<sub>x</sub> AND VOC ON-ROAD MOBILE TRENDS**



Source: NCTCOG TR Dept

#### **MONITOR EXCEEDANCES**

#### 2008 8-Hour Ozone NAAQS (≤75 ppb)



#### **MONITOR EXCEEDANCES**

#### 2015 8-Hour Ozone NAAQS (≤70 ppb )



Not a full year of data. Current as of 11/27/2018

#### **2015 8-HOUR OZONE NAAQS**

#### Air Quality Designations for the 2015 NAAQS for Ozone

EPA designated 2,646 counties as	
Attainment/Unclassifiable and three	
counties as Unclassifiable.	
(Note: Hood and Hunt Counties were not	
included in this list) <sup>1</sup>	

January 16, 2018: Final Rule Effective Date

TBD:

Final Rule Designating Nonattainment Counties

#### LOOKING FORWARD

Monitoring Next Steps Associated to the Region's Design Value being Higher than the 75 ppb Standard

Monitoring EPA's Final Designations and Associated Rules to the 70 ppb Standard

**Conducting a Transportation Conformity Analysis on Mobility 2045** 

Enhancing the Regional Communications Plan

Continuing to Develop and Implement Mobile Source Emission Reduction Programs

Composing Letter to TCEQ on NO<sub>x</sub> and VOC Ratios

#### REFERENCES

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# Mobility 2045 Update

#### **Regional Transportation Council**

December 14, 2017



## **Mobility Plan Development Process**





## Mobility 2045 Schedule

Milestone	Date
DRAFT Projects to RTC	December 14
<b>DRAFT Programs and Policies to RTC</b>	January 11
DRAFT Final Plan – RTC Workshop	February 8
<b>RTC Action – Take DRAFT Plan to Public</b>	March 8
<b>Official 60-Day Comment Period Begins</b>	April 9
Mobility 2045 – STTC Action	May 25
Mobility 2045 – RTC Action	June 14



# Major Project Recommendations





## **Process Overview**

**Builds Upon Mobility 2040 Process** Consistent with HB 20 Process **Enhanced Criteria and Analysis** All Tools Available Consistent with MAP-21 and FAST Act Goals Continuous, Coordinated, and Comprehensive Process


#### **Asset Optimization Recommendations**

Dallas CBD

Asset Optimization

Recommendations



Fort Worth CBD







North Central Texas Council of Governments Facility recommendations indicate transportation need. Corridor-specific alignment, design, and operational characteristics will be determined through ongoing project development.

#### **DRAFT Transit Corridor Projects**



**Council of Governments** 

and operational characteristics will be determined through ongoing project development. 7

December 2017

16

Rail

1 - Cotton Belt

#### **Major Arterial Recommendations**



December 2017

### **Arterial System Needs Assessment**

Change in Population Density Change in Employment Density Arterial Spacing **Congestion on Arterials Congestion on All Facilities Arterial Connectivity** 



#### **Existing Arterial Network Deficiency Areas**















Shaded areas are not project recommendations. These areas have population/employment grov congestion, and deficiencies in the existing arterial network that may warrant further study for arterial improvements. Higher scores depict areas of greater arterial need. Maximum possible score is 10.

December 5, 2017

#### Illustrative Roadway Corridors for Future Evaluation



December 2017

#### **Major Roadway Recommendations**



December 5, 2017

### Questions

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# DRAFT TECHNOLOGY AND PRIVATE SECTOR ORANSIT REVOLUTION: WHO AND HOW

	Public Sector	Public Sector Through Private Sector Contract	Private Sector
For Hire Taxi		$\checkmark$	$\checkmark$
Transportation Network Company/Automated		$\checkmark$	Uber, Lyft
Bicycle Share		$\checkmark$	Bcycle, LimeBike, etc.
Car Share/Automated		$\checkmark$	Zipcar
On-Demand Network Shared-Ride		Arlington	
Elderly and Disabled	$\checkmark$	$\checkmark$	
Buses	$\checkmark$		
"Guaranteed Transit"		(IFR36, FH955W)	
Air Taxi			Uber Elevate 14

#### DRAFT



### TECHNOLOGY AND PRIVATE SECTOR TRANSIT REVOLUTION: WHO AND HOW (Cont.)

	Public Sector	Public Sector Through Private Sector Contact	Private Sector
Rail	$\checkmark$		
People Mover (People and Goods)	?	?	?
High-Speed Rail/Mag. Lev.		?	$\checkmark$

GoPass, the mobile ticketing app for DART, DCTA, and FWTA, will be upgraded in the near future to include access to most of these services through a single app, called GoPass 2.0.

### ARLINGTON'S INSTITUTIONAL COMMITMENT

Test Track @ GM

Three Station High-Speed Rail (Plan, EIS)

February 1, 2018

People Mover to CentrePort and DFW February 1, 2018





### **Demand Response RIDESHARE**

Addresses mobility needs through the use of a dynamic microtransportation system with no fixed schedules, no fixed routes and an infinite number of on-demand stops.



City of Arlington

### How Does It Work?



City of Arlington



## RISE IN FRAUDULENT TEMPORARY VEHICLE REGISTRATION TAGS

Regional Transportation Council December 14, 2017

> Chris Klaus Sr. Program Manager



### SINGLE STICKER HISTORY

#### **Inspection Certificate**

Separate windshield inspection certificate used prior to March 2015 Counterfeit certificates and fraudulent inspections proliferated

#### House Bill 2305

Fully implemented March 2016 Eliminated inspection certificate Tied inspection to registration

#### Effects

Enhanced motorist convenience Elimination of counterfeit inspection certificate fraud Surge in counterfeit and improper temp tags





### **TEMPORARY TAG EXAMPLES**



### LAW ENFORCEMENT

#### **Enforcement Challenges**

Large volume of temporary tags Many types of tags with different layouts/content

#### **Criminal Enterprises Profit from Fraudulent Temp Tags**

**Organized crime involvement** 

Sold online, at flea markets and other locations

Leads from on-road enforcement praised by federal law enforcement in pursuit of serious crimes

#### **Funding Issues**

Local Initiatives Projects (LIP) allows funding for on-road enforcement of temp tag crimes

Veto of LIP funding for FY 2018-2019 has led to cease in on-road enforcement efforts



### **IMPACTS**

#### **Air Quality**

Vehicles circumventing emissions inspection requirements impede region's ozone attainment efforts

#### Safety

Vehicles that cannot pass annual safety inspection pose a danger to all



#### Financial

Source: NCTCOG

Tolling authority unable to collect for use of facilities Vehicle inspection and repair facilities experience loss of revenue State and local jurisdictions lose revenue from lack of registration and inspection fees

### **REVENUE LOSS PER REGISTRATION**

### State Highway Fund......\$50.75

Other State Fees.....\$8.25

County Fees.....\$16

Total Loss.....\$75

### **MOVING FORWARD**

### Analysis

Quantify problem Investigate other states

#### Law Enforcement Training

Academy training Individual agency training Visual training aids for law enforcement Restore Funding

#### **Legislative Action**

Explore types of tags needed Standardize tag appearance Add security features Enhance penalties



### **COLD, HARD TRUTH**

"THIS TRUCK CANNOT GO FASTER THAN <u>55</u>

WORN SHOCKS BALD TIRES WORN BRAKES

GO SLOW!"

THIS THUCK CANNOT GO b.

### FOR MORE INFORMATION

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