

Dan Lamers, P.E.

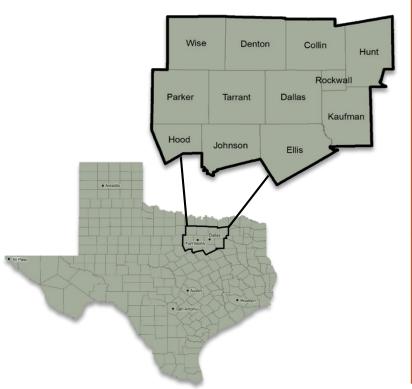
Senior Program Manager

North Central Texas Council of Governments

TexITE Fall 2016 Meeting

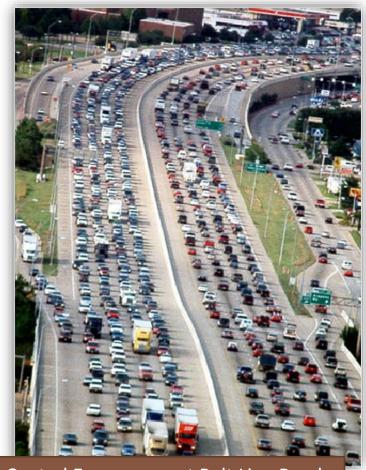
September 23, 2016

How Big is Our Ranch?



Measure	2017	2040	% Change	
Area	9,441 sq. miles	9,441 sq. miles	0%	
Population	7,235,500	10,676,800	48%	
Employment	4,584,200	6,691,400	46%	
Person Trips	24,883,827	36,038,397	45%	
Total Person Trips	27,270,154	76,100,105	179%	
Vehicle Trips	19,506,248	28,348,373	45%	
Transit Trips	192,505	337,366	75%	

A Tall Order – DFW Transportation Issues



Central Expressway at Belt Line Road

- Dramatic growth in single occupant vehicles (SOV)
- Increased travel time and costs
- Air quality nonattainment area
- No "regional" public transportation
- Suburban sprawl
- Lack of coordination between

land use and transportation investments



Fancy Wranglin' – The Metropolitan Transportation Plan



Represents a blueprint for the region's multimodal transportation system



Covers at least a 20-year timeframe



Responds to Regional Transportation Council goals



Identifies policies, programs, and projects for continued development



Guides the expenditure of federal and state transportation funds

All Hat...AND Cattle – Mobility 2040 Prioritization



^{*}Actual dollars, in billions. Values may not sum due to independent rounding.

Mobility 2040 – The Long and Short of It

Mobility Options

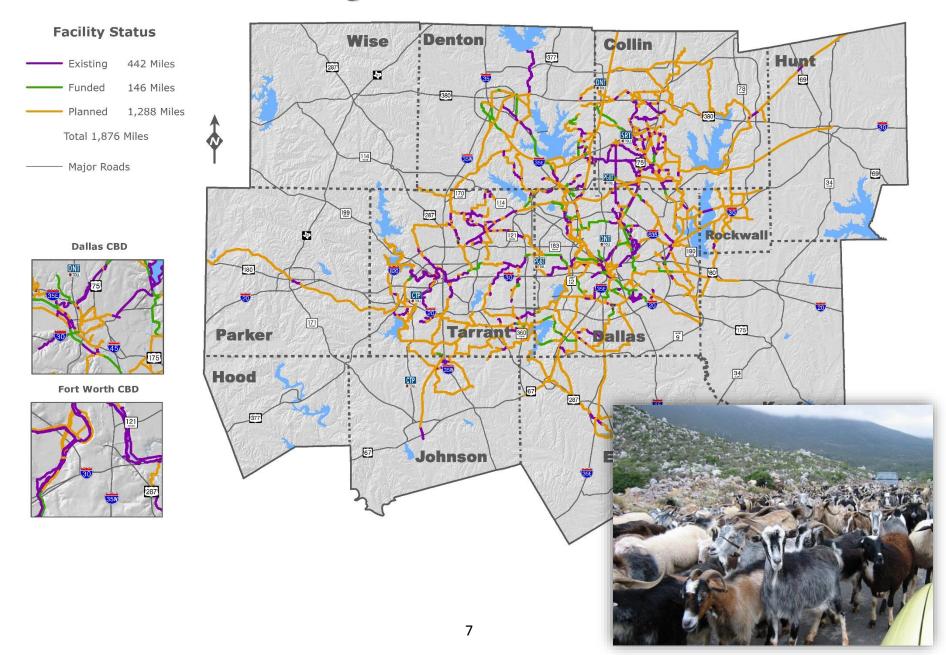
- Supports on- and off-street bicycle and pedestrian facilities
- Recommends over 6,350 new lane miles on the region's roadway network
- Calls for more than 380 miles of passenger rail by 2040
- Introduces "high intensity bus" service to the region
- Accommodates high-speed rail service to and within the region
- Recognizes the important roles freight and aviation play in our region's economy

Regional Performance

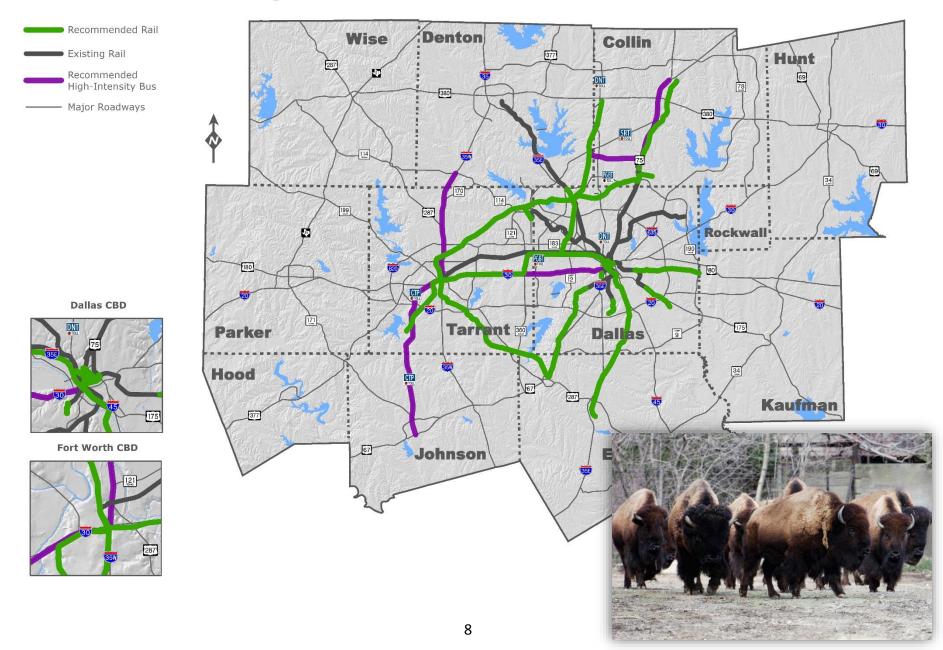
Documents significant performance measures to track system performance over time



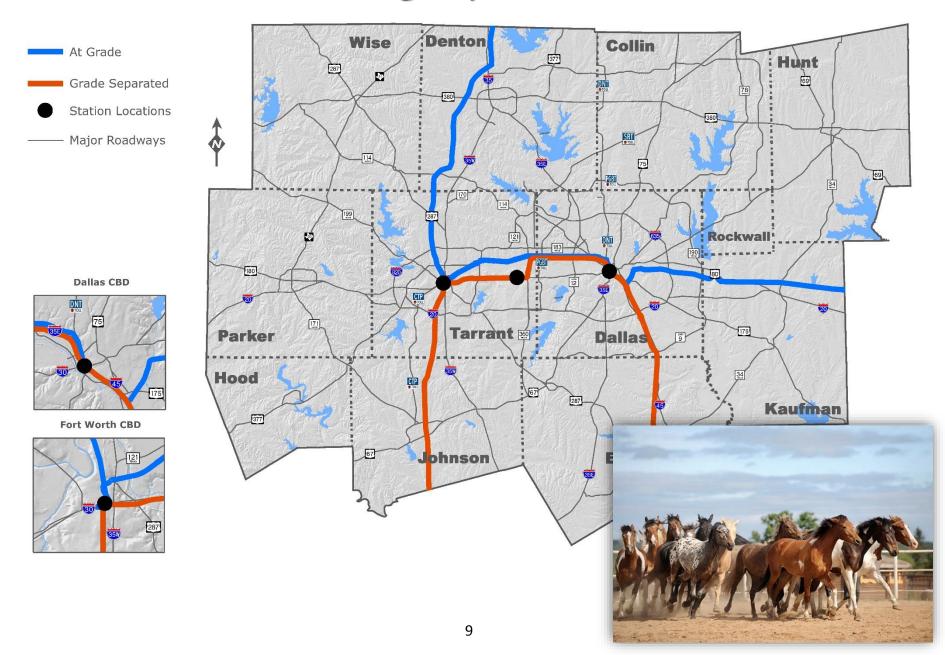
Goat Paths – The Regional Veloweb



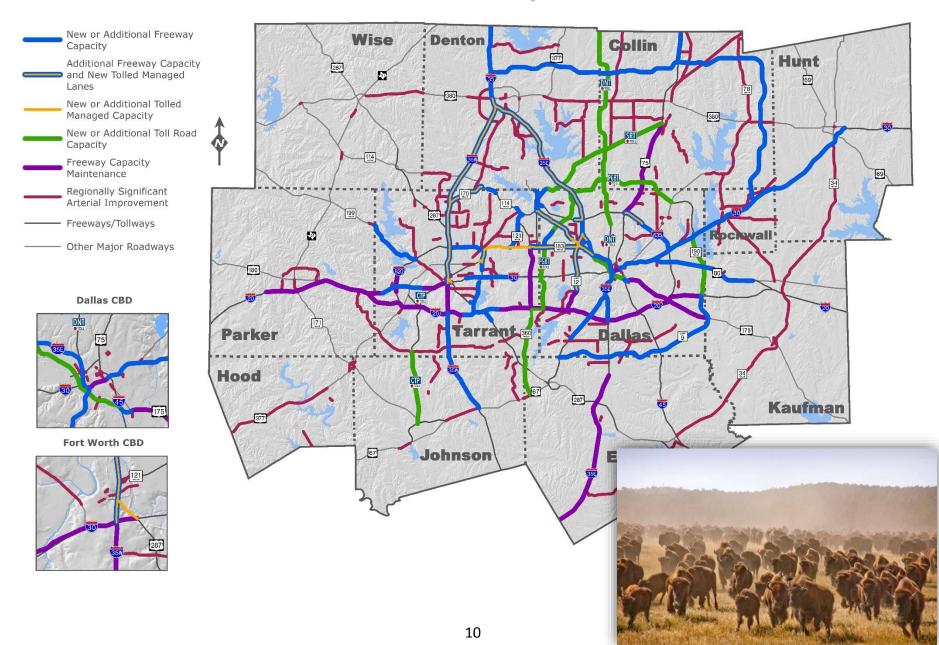
Cattle Cars—Major Transit Recommendations



Quicker Cattle Cars – High-Speed Rail

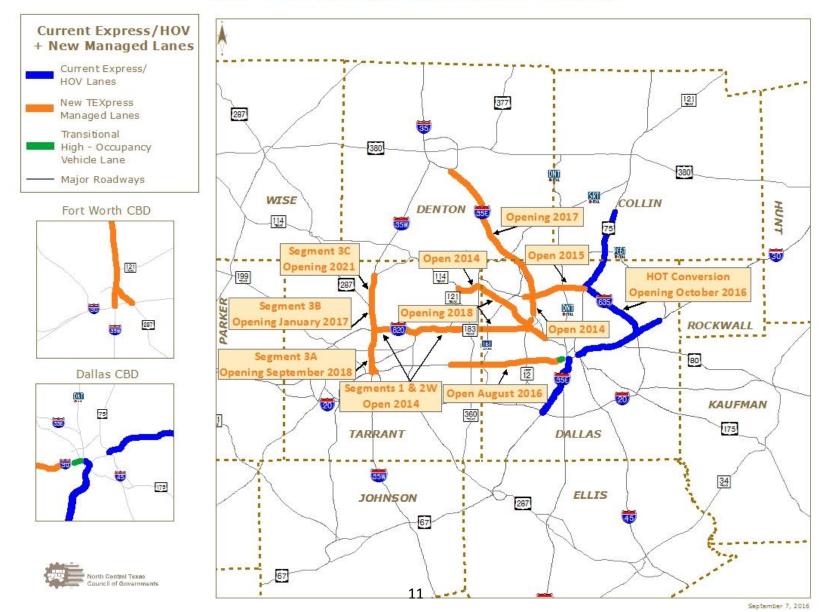


Cattle Drives – Funded Roadway Recommendations



Separating the Herd – Managed Lanes

Near Term Managed Lane System Openings



The Cowboy Way - Access North Texas

Improve transit services within communities

- Seek, renew, and strengthen partnerships
- Improve awareness of existing transit services
- Leverage resources to increase transit options

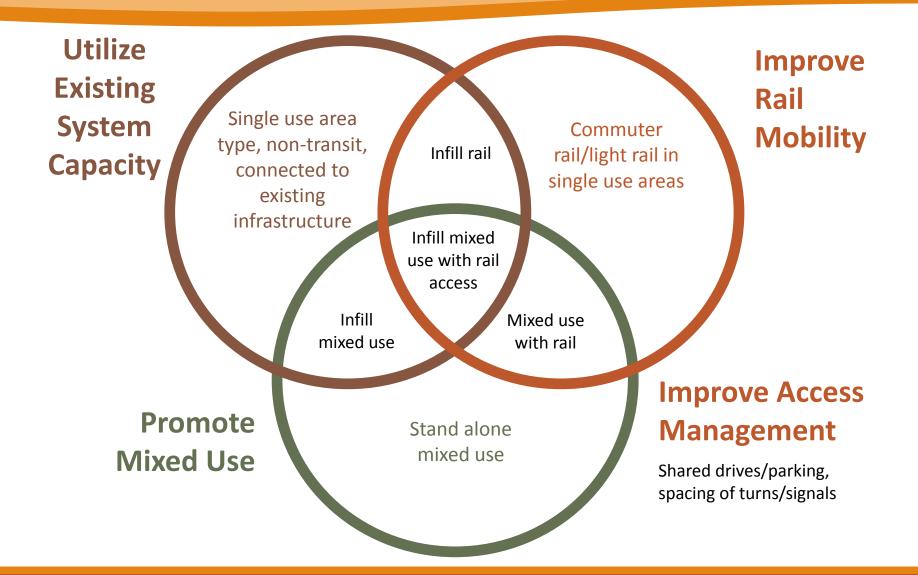
Improve transit services across city and county borders

- Facilitate more access to regional destinations
- Simplify reliable connections among transit providers

Continue to discuss public transportation needs

Coordinating committees, planning studies, and ongoing communication

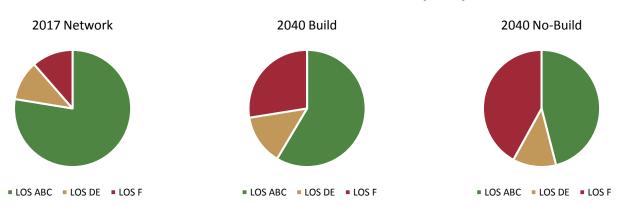
Life on the Ranch – Regional Sustainable Development



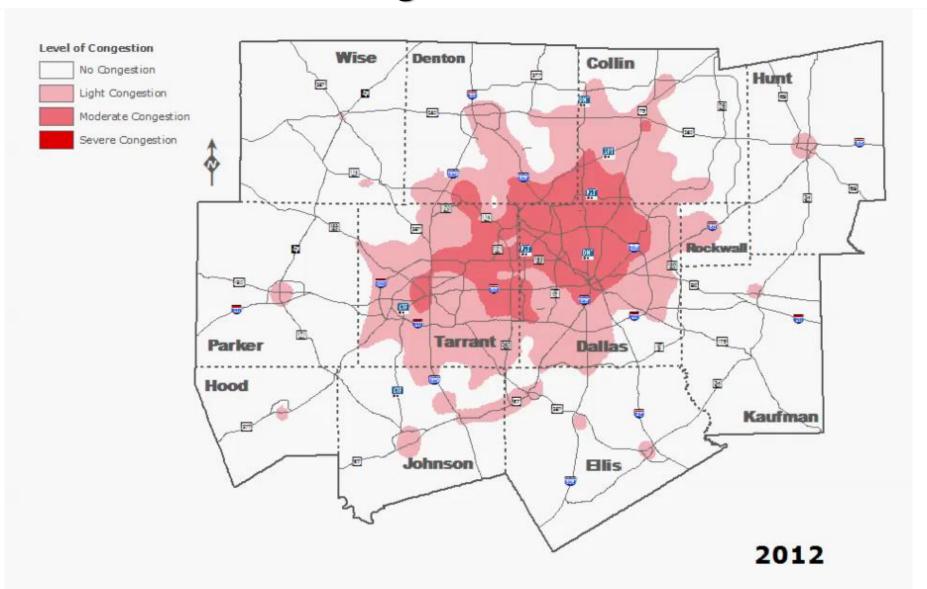
Get Along Little Doggies - Performance Measures

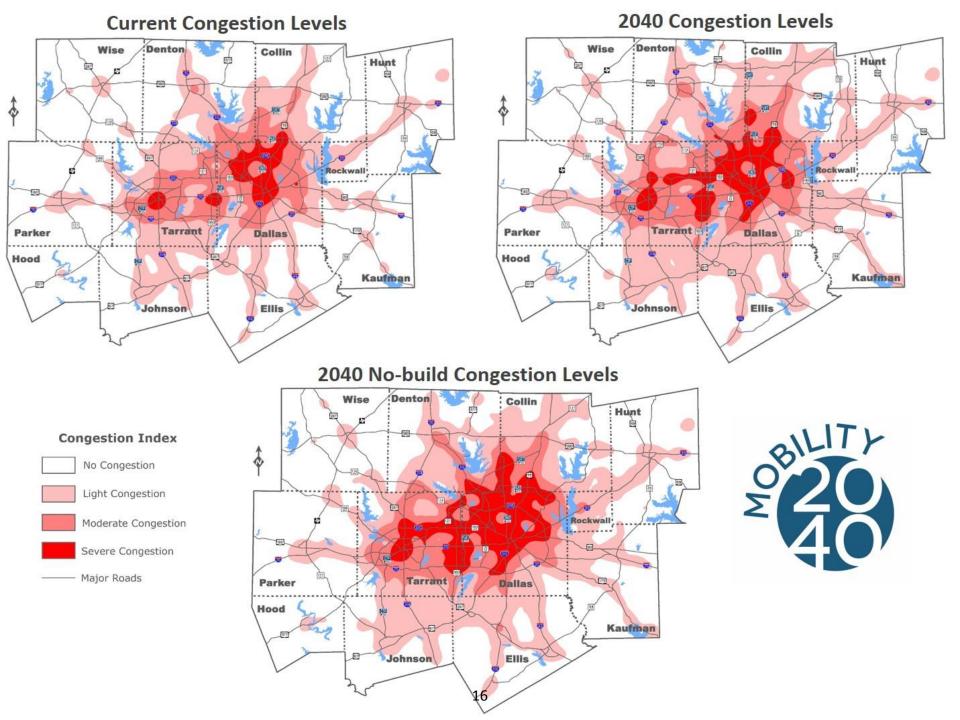
Regional Performance Measures	2017	2040	No-Build
Population	7,235,500	10,676,800	10,676,800
Employment	4,584,200	6,691,400	6,691,400
Vehicle Miles of Travel (Daily)	206,162,100	319,470,600	320,119,900
Hourly Capacity (Miles)	44,334,300	52,655,900	43,872,500
Vehicle Hours Spent in Delay (Daily)	1,521,100	3,587,000	6,198,200
Increase in Travel Time Due to Congestion	38.2%	58.4%	98.2%
Annual Cost of Congestion (Billions)	\$10.7	\$25.3	\$43.9

Lane Miles at Level of Service ABC, DE, and F



Move 'em On Out – Congestion Over Time





Riding Off Into the Sunset

Highway operating system changing fast, finally

- Rapid technology development
- Consumer demand for improved driving experience (e.g., texting valued more)
- Safety/operational challenges require greater levels of vehicle automation
- USDOT's Automated Vehicles Policy
- Other transportation modes have made shift to high automation already

The trail ahead

- Vehicle automation emerges in multiple locales, expands quickly
- Shared mobility market share grows rapidly with vehicle automation
- Electrification of AV fleets
- Fewer vehicles provide more mobility to more people (e.g., today's non-drivers)
- More VMT?







Best Be Boot Scootin' Along

- The region is expected to grow significantly
- The are different transportation needs within the region
- The MTP addresses the growth and specific needs with multiple options







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