

Northeast Tarrant County Transportation Summit

Mobility for the 21st Century



2030 Plan

Dan Kessler

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FUNDING THE FUTURE

A Forecast of Transportation Finance

Presented to Northeast Tarrant County Transportation Summit

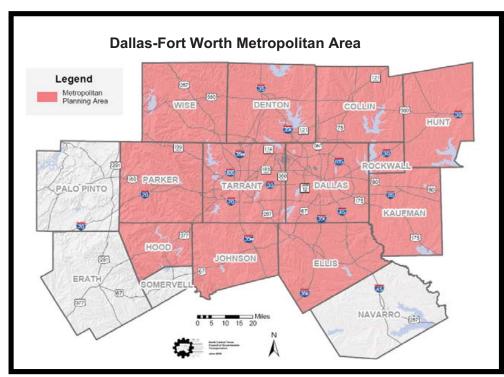
Dan Kessler
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Executive Director, TEMPO
February 17, 2010





Metropolitan Area Perspective

- 4th Largest Metropolitan Area in the United States
- Ranked 3rd in Population Growth Between 1990-2000 Adding Over 1 Million Persons
- Ranked first for Population Growth among U.S. Metropolitan Areas during 2008
- Larger than 35 States in Population
- Larger than 5 States in Land Area
- Represents Over 34 Percent of the State's Economy
- 6.5 Million Persons in Year 2009
- Growing to 10 Million Persons by the Year 2035
- 12th Largest Metropolitan Economy in the World



Dallas-Fort Worth Metropolitan Area: A Leading World Economy

		2005	2005 GDP	
Urban Area ¹	Country	Billion US\$2	Rank	
Tokyo	Japan	\$1,191	1	
New York	USA	\$1,133	2	
Los Angeles	USA	\$ 639	3	
Chicago	USA	\$ 460	4	
Paris	France	\$ 460	5	
London	UK	\$ 452	6	
Osaka/Kobe	Japan	\$ 341	7	
Mexico City	Mexico	\$ 315	8	
Philadelphia	USA	\$ 312	9	
Washington DC	USA	\$ 299	10	
Boston	USA	\$ 290	11	
Dallas/Fort Worth	USA	\$ 268	12	
Buenos Aires	Argentina	\$ 245	13	
Hong Kong	China	\$ 244	14	
San Francisco	USA	\$ 242	15	

¹Urban agglomerations as defined by the United Nations ²Exchange rates based on "purchasing power parity"

Source: PriceWaterhouseCoopers, United Nations

Transportation Funding Crisis

Construction costs have increased substantially over the past two decades (by 50% between 2002 and 2007).

Federal and state fuel taxes have not increased since the early 1990s.

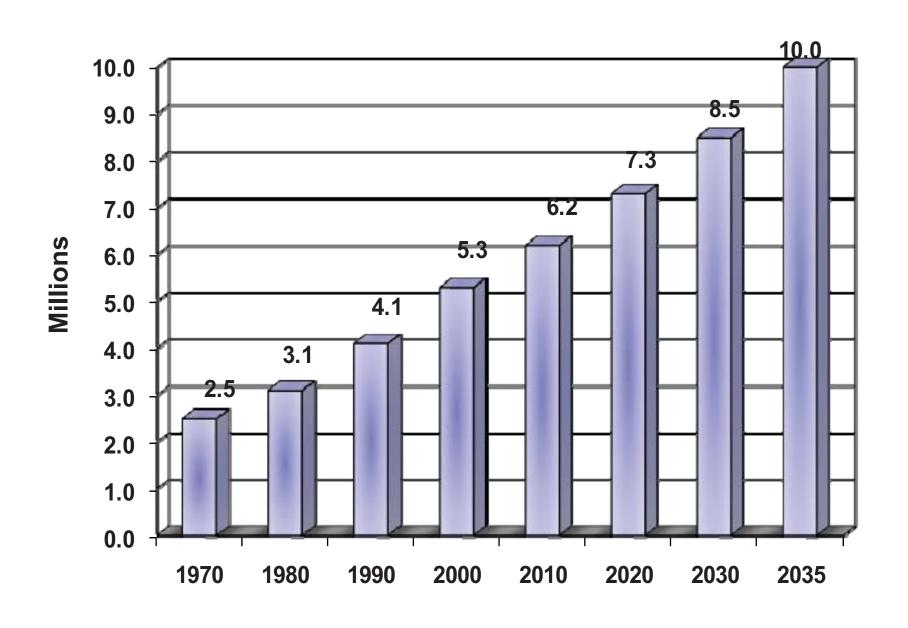
Texas is annually diverting over \$1Billion of State transportation revenues to non-transportation purposes.

Texas is a donor State.

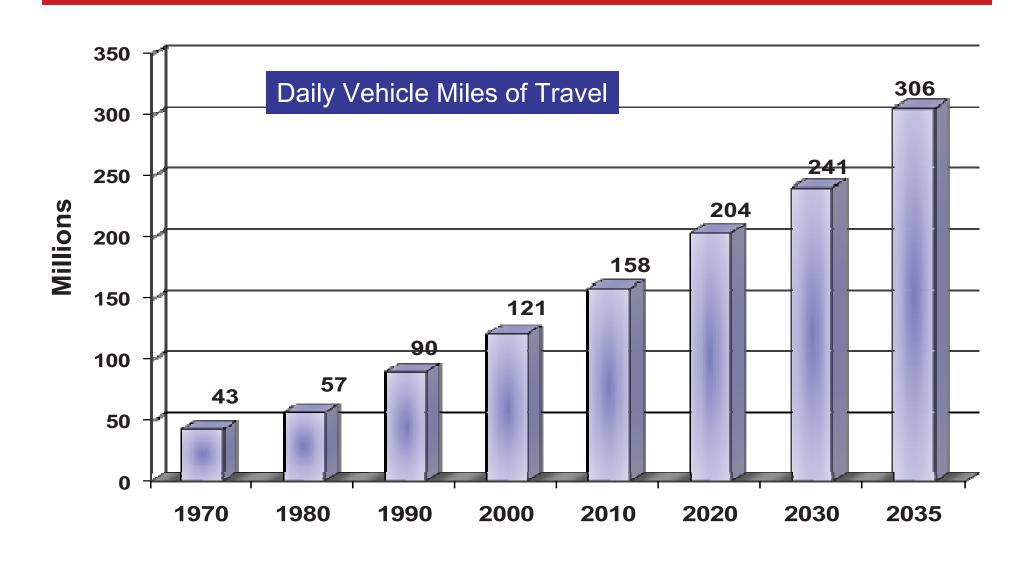
Dallas-Fort Worth is a donor region.

Dallas-Fort Worth population and travel demand continue to grow.

Dallas-Fort Worth Metropolitan Area Population Growth (1970-2035)



Dallas-Fort Worth Metropolitan Area Travel Demand Growth



A Transportation Funding Crisis

- U.S. Congress depositing general revenues to the Highway Trust Fund
- States facing multiple rescissions in SAFETEA-LU program obligation authority
- TxDOT using Proposition 12 bonds backed by general revenues for transportation funding
- TxDOT using Proposition 14 bonds backed by Fund 006 and borrowing money to meet monthly cash flow needs
- Transportation project costs increasing as regional projects languish, despite use of innovative financing and partnerships

TEMPO/TxDOT WORKGROUP CHARGE

"To develop a transportation revenue forecasting model, a range of reasonable model input assumptions, and to utilize this model to develop estimates of <u>future</u> available funding for capacity improvements."

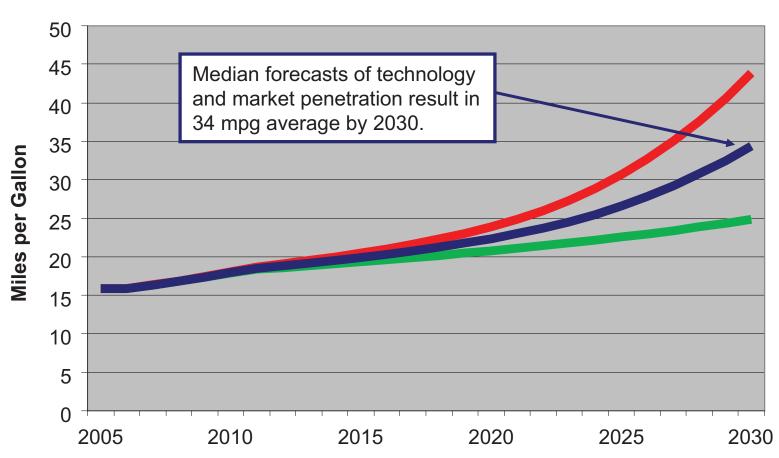
FUNDING THE FUTURE TRENDS Model Revenue Strategies

State Gasoline and Diesel Taxes
Federal Gasoline and Diesel Taxes
Indexing State and Federal Motor Fuels Tax
Vehicle Registration Fees
Vehicle Miles of Travel (Distance-based) Tax
Levels of Bond Financing

TRENDS MODEL

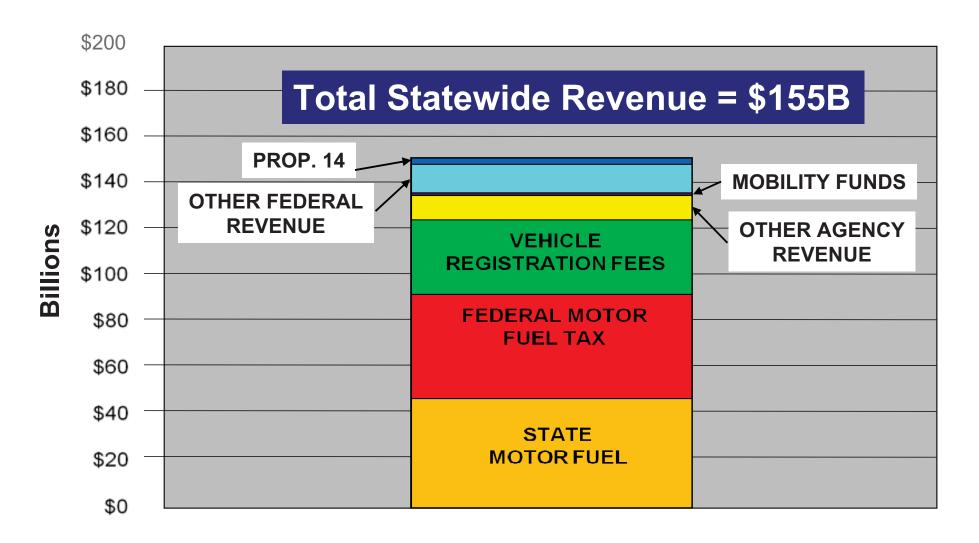
Captures Fuel Efficiency Impacts and Provides Flexibility for Evaluating Future Scenarios

Fuel Efficiency Scenarios



Source: Cambridge Systematics/TTI

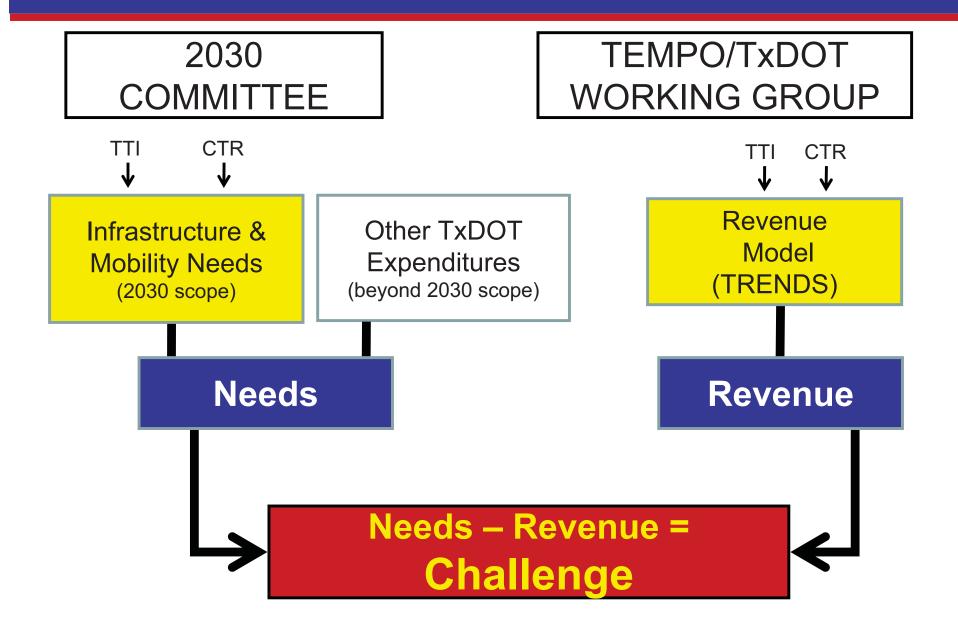
FUNDING THE FUTURE TRENDS Provides a Baseline Revenue Forecast



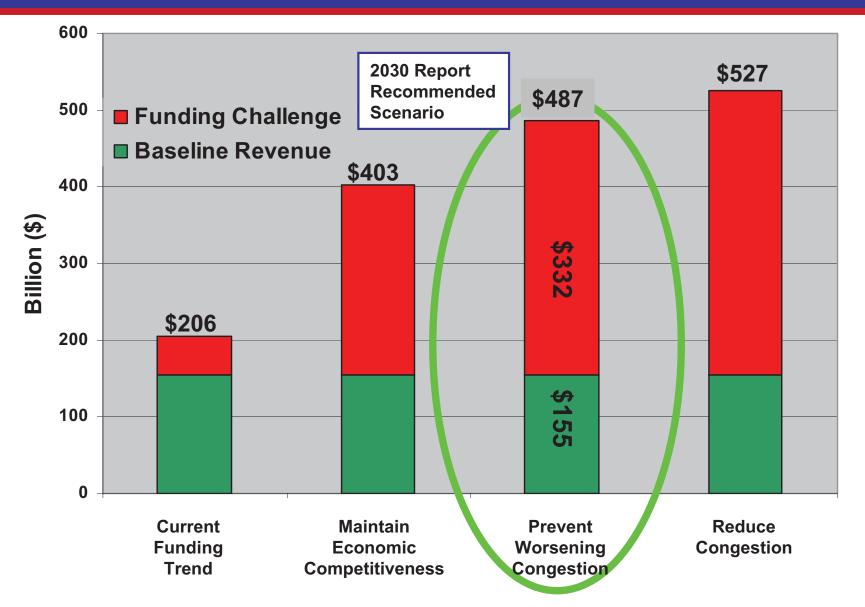
Baseline revenue forecast in nominal dollars, 2009 to 2030 (adjusted for inflation)

FUNDING THE FUTURE

Needs Versus Revenue



FUNDING THE FUTURE Needed Revenue Challenge 2030 Committee Investment Scenarios



Total revenue needs increased by \$100B to include anticipated TxDOT encumbrances.

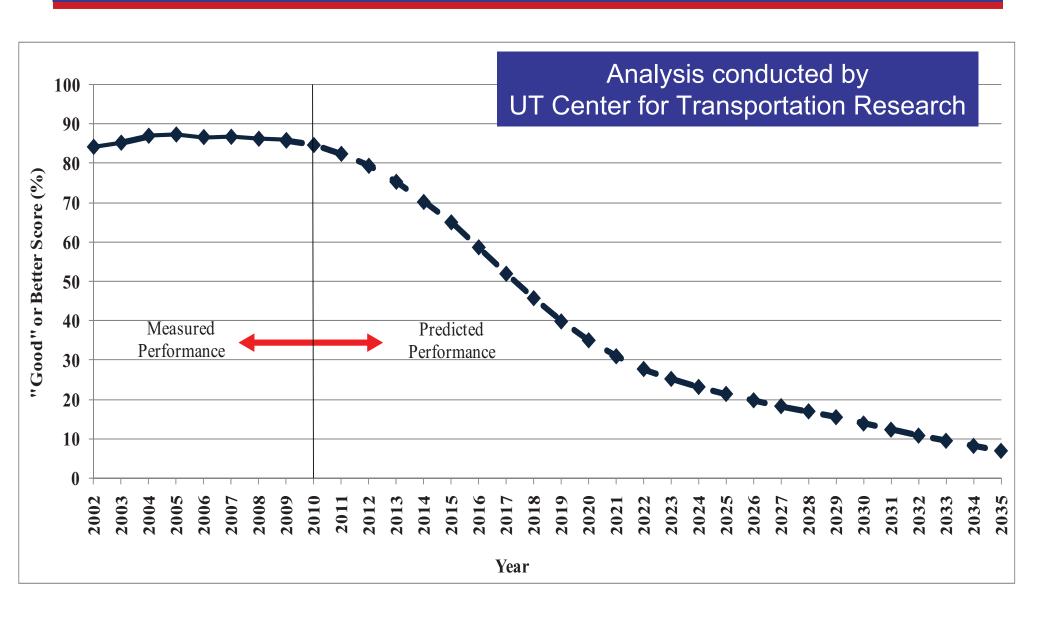
Statewide TxDOT Funding by Category Years 2010-2020

Category	Current TxDOT Unified Transportation Program
1 – Preservation	\$10.616
2 - Metro Mobility	\$2.020
3 - Urban Mobility	\$0.401
4 - Statewide Mobility	\$0.056
5 - CMAQ	\$1.246
6 - Bridge	\$2.813
7 - STP Metro Mob/Rehab	\$2.106
8 - STP Safety (HES)	\$1.444
9 - STP Enhancement	\$0.676
10 - Supplemental Trans.	\$0.768
11 - District Disc.	\$0.728
12 - Strategic Priority	\$0.176
Total	\$23.050

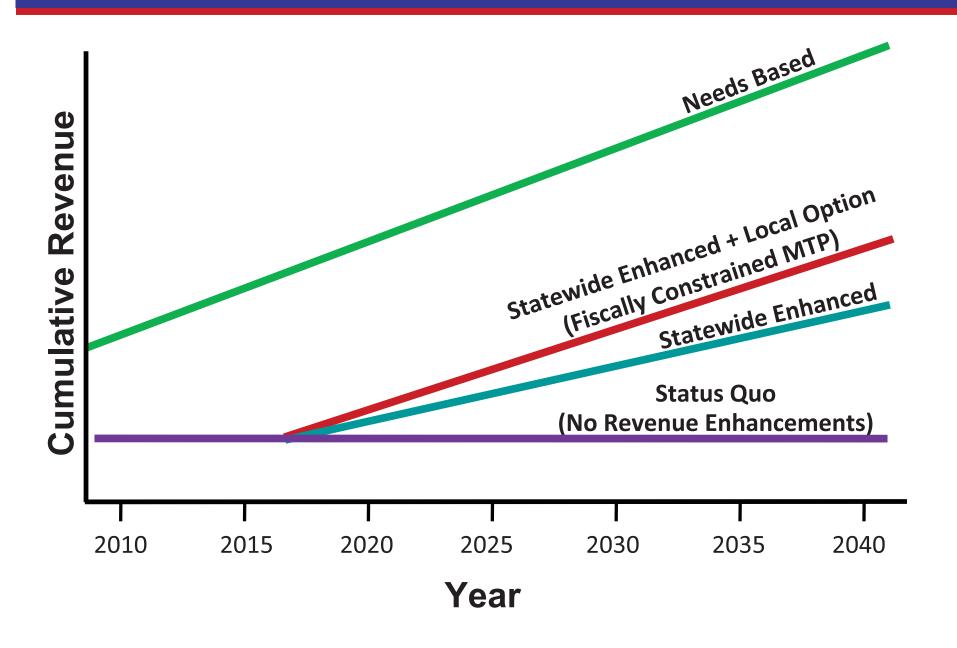
Statewide TxDOT Funding by Category Years 2021-2035

Category	Based On TRENDS Revenue Forecast
1 – Preservation	\$11.630
2 - Metro Mobility	\$0.000
3 - Urban Mobility	\$0.000
4 - Statewide Mobility	\$0.000
5 - CMAQ	\$2.230
6 - Bridge	\$3.750
7 - STP Metro Mob/Rehab	\$3.140
8 - STP Safety (HES)	\$1.950
9 - STP Enhancement	\$0.900
10 - Supplemental Trans.	\$0.490
11 - District Disc.	\$0.940
12 - Strategic Priority	\$0.000
Total	\$25.030

Texas Pavement Quality Predictions Based On UTP/TRENDS Forecasts



Metropolitan Transportation Plan Revenue Scenarios



Status Quo Revenue

- Peak-period travel times in Dallas-Fort Worth would nearly triple
- Demographic growth would be severely impacted
- Some bridges and highway lanes would be closed
- Significant financial implications to Texas General Revenue



The Metropolitan **Transportation Plan**

Funded Roadway Recommendations

Legend

New Freeway Facilities

New Tollway Facilities

Additional Capacity To Existing

Freeway/Tollway

HOV/Managed Lanes

Improvements to Existing Freeway and

HOV/Managed Lanes

Selected New/Improved

Regionally Significant Arterials

Freeways/Tollways

Fort Worth CBD

Dallas CBD



Corridor specific design and operational characteristics for the Freeway/Tollway system will be determined through ongoing project development.

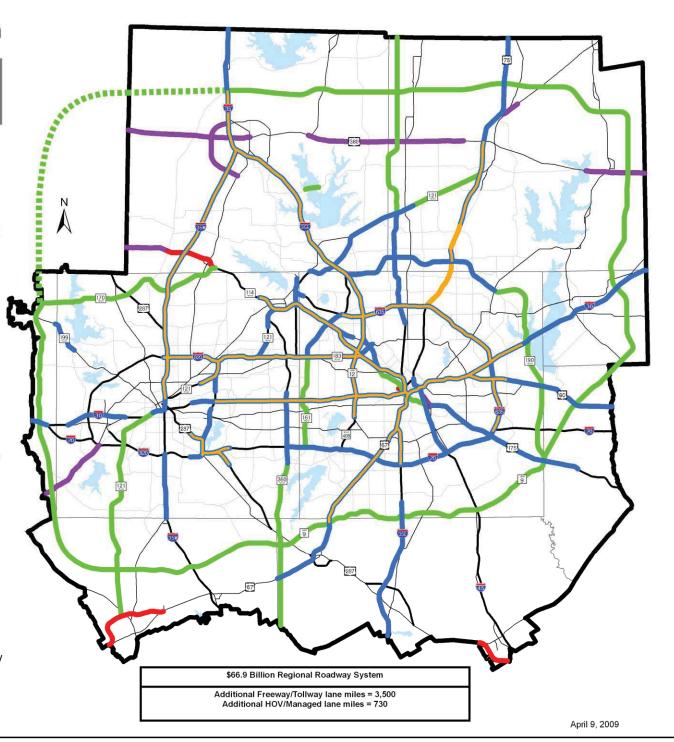
Additional and improved Freeway/Tollway interchanges and service roads should be considered on all Freeway/Tollway facilities in order to accommodate a balance between mobility and access needs.

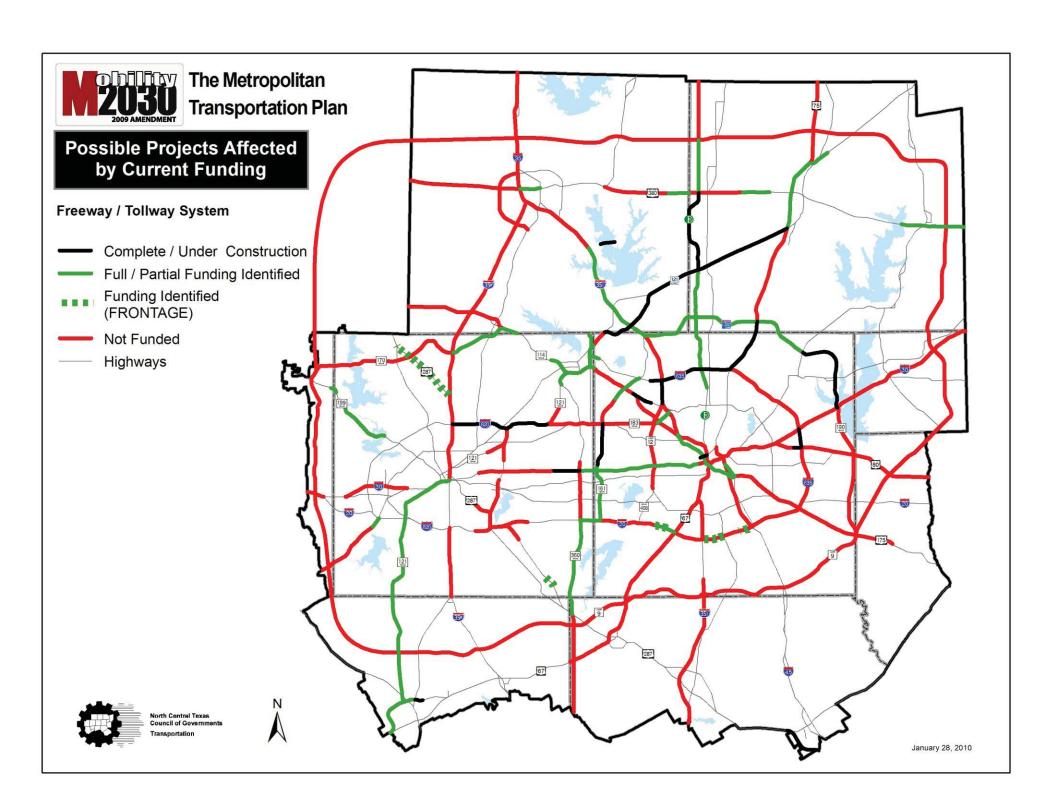
All Freeway/Tollway corridors require additional study for capacity, geometric, and safety improvements related to truck operations.

New facility locations indicate transportation needs and do not represent specific alignments

Operational strategies to manage the flow of traffic should be considered in the corridors where additional freeway or tollway lanes are being considered.









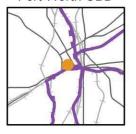
7031 The Metropolitan **Transportation Plan**

Passenger Rail Recommendations

Legend

- Light Rail
- Light Rail New Technology
- Regional Rail
- Regional Rail Special Events Only
- **Existing Rail Corridors**
- Highways
- Modern Streetcar

Fort Worth CBD





The Dallas and Fort Worth Streetcar systems are included in the plan and final alignments will be determined by each city.

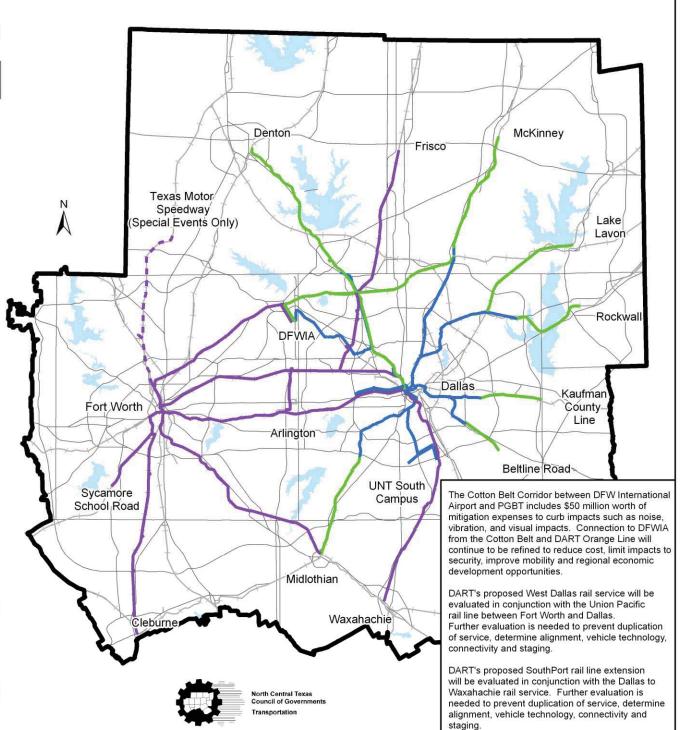
Corridor specific design and operation characteristics for the Intercity Passenger, Regional Passenger and Freight Rail Systems will be determined through capacity evaluation and ongoing project development. Refined rail forecasts are necessary to determine technology and alignment in Future Rail corridors.

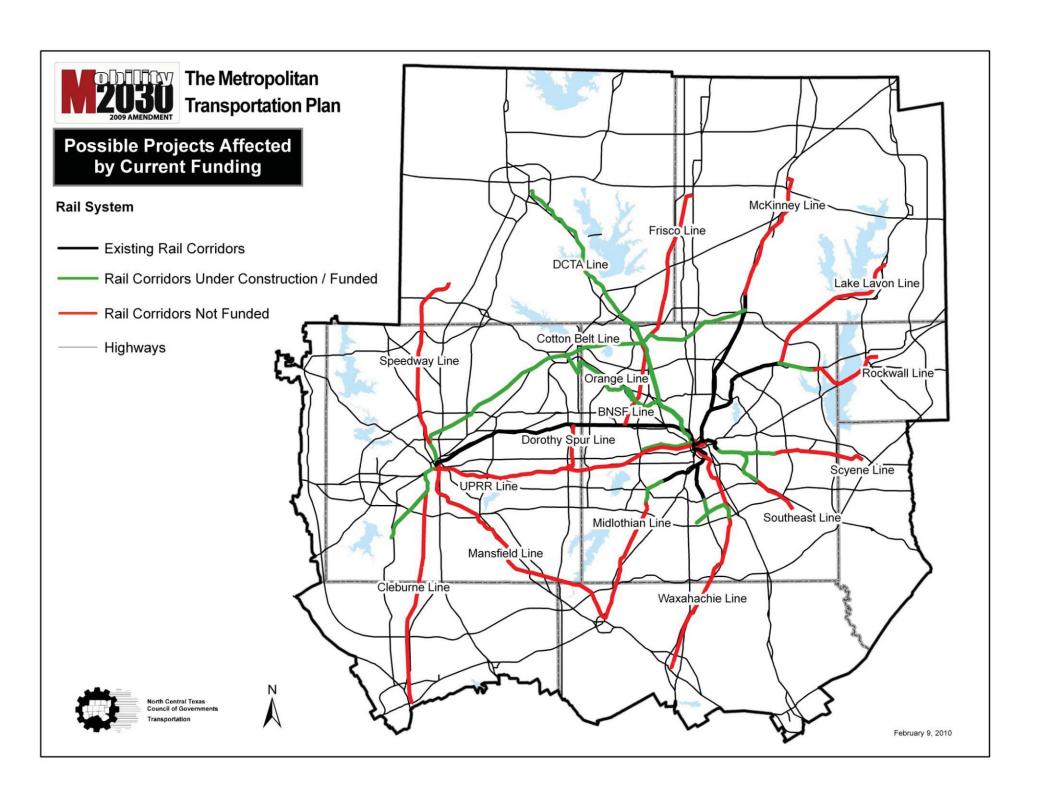
All existing railroad rights-of-way should be monitored for potential future transportation corridors. New facility locations represent transportation needs and do not reflect specific alignments.

Institutional structure being reviewed for the region.

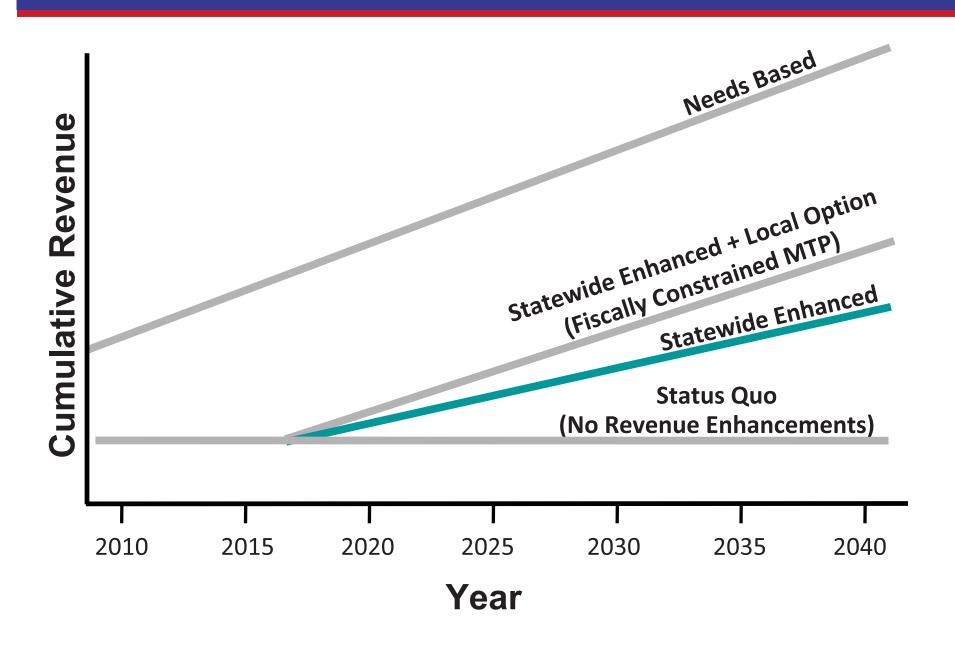
The need for additional rail capacity in the Dallas CBD, Fort Worth CBD, DFW International Airport, and other inter-modal centers will be monitored. A grade separation is needed for the Dallas CBD second alignment.

April 09,2009





Metropolitan Transportation Plan Revenue Scenarios



Statewide Enhanced Revenue

Revenue Strategies

Eliminate diversions from Fund 006

Allocate additional transportation user fees to Fund 006

Index fuel tax relative to vehicle fuel efficiency

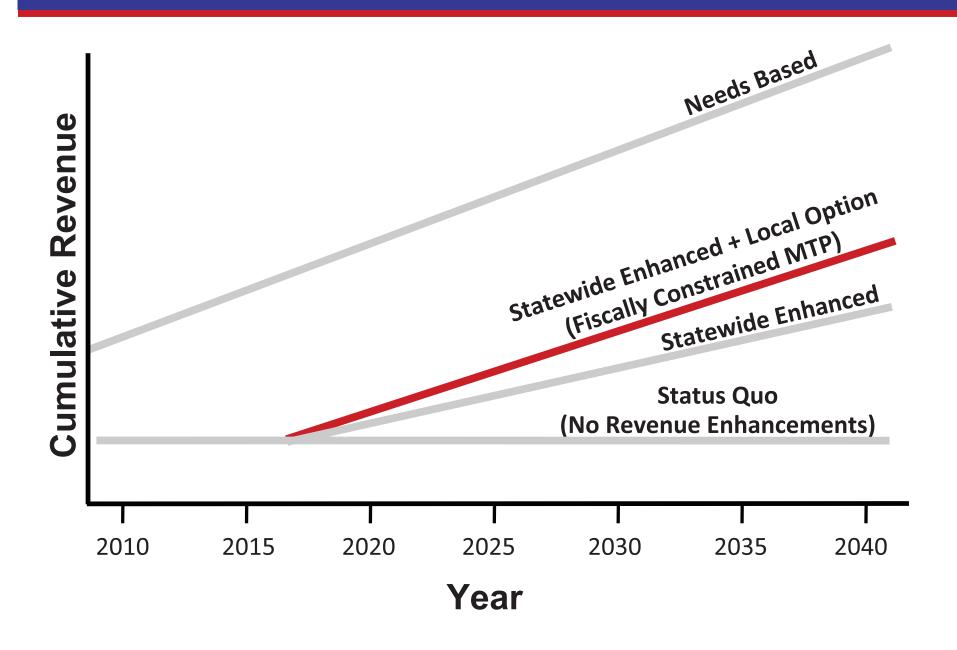
Increase gasoline and diesel taxes by 10 cents/gallon – direct revenue only to transportation

Standardize/Increase vehicle registration fees

Potential Regional Transportation Funding Opportunities

Funding Source	Status/Funding Amount
U.S. TIGER Grants	February 17, 2010
ARRA 1	Additional \$0-40 to DFW Connector
New Proposition 12	\$450M
Additional Proposition 14	\$200M
NTTA	\$458M
ARRA 2	\$450M

Metropolitan Transportation Plan Revenue Scenarios



Local Option Revenue

Toll Roads

Managed Lanes

Public-Private Partnerships, including Comprehensive Development Agreements

Local Bond Programs

Authorizes local option elections for mobility improvement fee or motor fuels taxes

Sub-allocation of TxDOT funding programs targeted at leveraging local dollars

Failure to Address Transportation Funding Needs

- Gas tax funded capacity projects at risk
- Legislative delay leads to greater imbalance with more toll projects
- Current infrastructure will not be able to be maintained, especially bridges
- Future implications of general tax revenue to Texas
- Legislative inaction results in inefficient project delivery, and wasted maintenance today
- Eventual cost, if ever, will be significantly higher

FUNDING THE FUTURE Constraints Bring About Innovation

- Utilize transportation funds to their intended purpose.
- Identify long-term, sustainable transportation revenues.
- Place greater emphasis on balancing land-use and transportation investments.
- Continue our Region's development of a multimodal transportation system.
- Maximize system capacity through travel demand and transportation system management strategies.