Mobility 2035 - 2013 Update
the metropolitan transportation plan
for north central texas

executive summary
A New Approach to Transportation

Mobility 2035 – 2013 Update is the defining vision for the region’s multimodal transportation system. Serving as a blueprint for the region’s transportation system, the Mobility 2035 – 2013 Update represents a balanced approach to the way North Central Texas plans for and implements transportation improvements. This plan provides for increased mobility and accessibility while addressing demanding financial constraints. The Mobility 2035 – 2013 Update focuses on first making the most efficient use of the existing transportation system by coordinating land-use and transportation strategies to accommodate for anticipated growth, then making strategic decisions in major transportation investments with the remaining available resources.

A Growing and Diverse Region

The Dallas-Fort Worth metropolitan area continues to be one of the most rapidly growing areas in the country. Since the 1970s, the region has grown by more than 150 percent, and is now the fourth-largest metropolitan area in the country with a population of nearly 6.8 million. The area covers nearly 9,500 square miles, making it larger in total area than five states. Dealing with such a large area and so many people presents a variety of challenges. The region varies greatly in terms of its demographic composition and geography, ranging from dense urban to rural settings. This means a one-size-fits-all transportation system will not work for the Dallas-Fort Worth area. Understanding the existing demographic makeup of the region and how growth is anticipated to change over time is key to planning a transportation system that meets current and future needs.

The region is expected to continue growing as a result of a favorable economic climate, low cost of living and other quality-of-life factors that make North Central Texas attractive to new residents and businesses. The Metropolitan Transportation Plan seeks to meet the needs of the current population while accommodating future system demand from a population approaching 10 million by 2035.

The goals defined in the Mobility 2035 – 2013 Update guide efforts that aim to accommodate the multimodal mobility needs of a growing region. These goals support and advance the development of a transportation system that contributes to improvement in the region’s mobility, quality of life, system sustainability and continued project implementation.
Goals of the Metropolitan Transportation Plan

**mobility**
- Improve the availability of transportation options for people and goods.
- Support travel efficiency measures and system enhancements targeted at congestion reduction and management.
- Assure all communities are provided access to the regional transportation system and planning process.

**quality of life**
- Preserve and enhance the natural environment, improve air quality and promote active lifestyles.
- Encourage livable communities that support sustainability and economic vitality.

**system sustainability**
- Ensure adequate maintenance and enhance the safety and reliability of the existing transportation system.
- Pursue long-term, sustainable revenue sources to address regional transportation system needs.

**implementation**
- Provide for timely project planning and implementation.
- Develop cost-effective projects and programs aimed at reducing the costs associated with constructing, operating and maintaining the regional transportation system.

Dallas–Fort Worth Financial Picture

While the creation of a world-class transportation system that accommodates all mobility needs of the region would be ideal, the reality is that such a system cannot be afforded under current economic conditions. Current estimates put Dallas–Fort Worth regional transportation needs at $395.3 billion to eliminate the worst levels of congestion in the region between now and 2035. The Mobility 2035 – 2013 Update is required to be financially constrained to resources that are reasonably expected to be available over the life of the plan. The Mobility 2035 – 2013 Update identifies $98.7 billion in transportation projects and programs. While this seems like a great deal of money, it is approximately $47 billion less than the Mobility 2030 plan. This reduction in anticipated funding for transportation is the result of stagnant or declining revenues for transportation. These revenues and associated buying power have been negatively impacted by a number of factors including decreased fuel consumption and high inflation in construction expenses. Likewise, state and federal motor fuel taxes have not increased since 1991 and 1993, respectively. These factors have resulted in less money to build and implement much-needed transportation improvements.
The Mobility 2035 – 2013 Update relies on a set of legislative financial strategies. Without these, a number of critically needed improvements would be left out of the plan. These strategies are not prescriptive, but instead are an example of the level of investment required to fully implement the recommendations contained in the Mobility 2035 – 2013 Update. Because of the Regional Transportation Council’s active legislative agenda, it is reasonable to assume that the projects contained in the plan will move forward. Without action by state and federal elected officials, the gap between the region’s transportation needs and what it can actually fund will continue to grow.

**Legislative Strategies Identified in the Mobility 2035 - 2013 Update**

The RTC has an active legislative program. These proposed strategies should be pursued to ensure the region receives the revenue that has been projected.

- Continue RTC/Texas Transportation Commission Partnership Program to leverage available funding.
- Pursue innovative project financing using tools made available by the state legislature.
- Pursue congestion pricing opportunities through managed facilities in specific corridors identified through planning studies.
- Decrease project costs through streamlining the project development process and value engineering initiatives.
- Continue to pursue legislative actions aimed at increasing revenue through additional initiatives identified by the RTC.
- Continue to pursue tollway development where feasible.

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**Mobility 2035 - 2013 Update**

**Revenue Enhancements**

Long-range planning is anything but certain, and assumptions have to be made about what can reasonably be expected to happen over the life of the mobility plan.
Because there is not enough funding available to meet all of the region’s transportation needs, projects and programs must be prioritized. The Mobility 2035 – 2013 Update was developed around the idea that the existing transportation system would first be maximized through low-cost, highly effective improvements, and then strategic infrastructure improvements would be made. The expenditures identified in the Mobility 2035 – 2013 Update reflect this concept.

**Prioritization of Improvements**

- Infrastructure Maintenance
  - Maintain & Operate Existing Facilities
- Management and Operations
  - Improve Efficiency & Remove Trips from System
- Growth, Development and Land-Use Strategies
  - More Efficient Land Use & Transportation Balance
- Rail and Bus
  - Induce Switch to Transit
- HOV/Managed Lanes
  - Increase Auto Occupancy
- Freeways/Tollways and Arterials
  - Additional Vehicle Capacity

The Mobility 2035 – 2013 Update was built around the idea of first maximizing the existing transportation system the strategically investing in infrastructure. Throughout the planning process, consideration is given to social, environmental, and quality-of-life factors.

**Mobility 2035 – 2013 Update Expenditures**

<table>
<thead>
<tr>
<th>Category</th>
<th>Expenditure (Billions)</th>
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<tbody>
<tr>
<td>Infrastructure Maintenance</td>
<td>$28.9</td>
</tr>
<tr>
<td>Management and Operations Strategies</td>
<td>$4.8</td>
</tr>
<tr>
<td>Growth, Development and Land-Use Strategies</td>
<td>$3.9</td>
</tr>
<tr>
<td>Public Transportation</td>
<td>$15.6</td>
</tr>
<tr>
<td>Freeway, Tollway, HOV/Managed Lane and Arterial</td>
<td>$45.5</td>
</tr>
<tr>
<td><strong>Total (Actual $ Billions)</strong></td>
<td><strong>$98.7</strong></td>
</tr>
</tbody>
</table>

The Mobility 2035 – 2013 Update recommends $98.7 billion worth of transportation improvements over the life of the plan.
Environmental Strategies

Not only has there been a move from building as much capacity as possible to more efficiently using what currently exists, but the Mobility 2035 – 2013 Update seeks to be an increasingly sustainable and environmentally conscious plan.

Clean air, clean water and the availability of open space for recreation and wildlife habitat are central quality-of-life considerations for residents of North Central Texas. Considering the impact of the transportation system on environmental resources and outlining system-wide mitigation options are important in developing quality transportation projects. The Mobility 2035 – 2013 Update supports a broad approach to assessing conservation goals and opportunities to improve the transportation decision-making process. The Mobility 2035 – 2013 Update supports a transportation system that maintains and enhances the environment, considers and accommodates conservation priorities, and improves the decision-making process, which will lead to high quality transportation projects.

A Regional Ecosystem Framework was used in the Mobility 2035 – 2013 Update to determine regional ecosystem priorities and environmental resource policies. The VEIL is a composite of environmental information that is used to catalog important environmental resources in the region.

Clean air is a vital environmental resource. Air quality is particularly important in the Dallas-Fort Worth area because the region is classified as a nonattainment area for the pollutant ozone. Because of this designation, the region must identify measures and implement improvements that will not negatively impact air quality. The region must demonstrate that over time air quality will improve with programs and projects included in the Mobility 2035 – 2013 Update.
Quality of Life

The Mobility 2035 – 2013 Update aims to provide a high quality of life for the residents of North Central Texas. Creating livable communities, encouraging sustainable development and providing transportation choices aid in this effort.

The relationship between transportation and land use plays an important role in creating livable communities. When transportation and land use are balanced mobility improves, allowing increased access to housing, employment, retail, education, health and recreational opportunities. As the region continues to grow, encouraging sustainable development through land-use strategies will support more efficient use of the existing and future transportation system. This allows for better use of limited resources.

Active transportation, composed of bicycle and pedestrian elements, plays an important role in improving quality of life and congestion. Because 33 percent of the trips made within the region are three miles or less, these trips are well-suited for biking or walking. Improving bicycle and pedestrian access, facilities and safety are investments that the Mobility 2035 – 2013 Update supports to reduce congestion and enhance mobility.
Improving Mobility

Accommodating the multimodal needs of a growing region is a primary purpose of the Mobility 2035 – 2013 Update. While the Mobility 2035 – 2013 Update has a stronger focus on sustainable development and low-cost operations and management strategies than previous plans, the region will continue to grow. While strategic infrastructure investment such as expansion of roads or rail lines are prioritized after other improvements, these investments will still be needed to accommodate future growth. The Mobility 2035 – 2013 Update recommends a number of strategic infrastructure investments that will seek to meet the region’s transportation needs and provide a variety of transportation options for residents.

Providing additional public transportation options will play a central role in the transportation system and could impact how the region grows in the future. The Mobility 2035 – 2013 Update recommends nearly 500 miles of passenger rail. Rail will be a crucial element in reducing congestion, improving commute times and providing more reliable travel. In addition to passenger rail, the Mobility 2035 – 2013 Update recommends continuing to look for opportunities to support other public transportation options such as streetcars and bus rapid transit. These systems move people in an efficient way and can foster economic development.
The Dallas-Fort Worth area is poised to benefit from the vision of High Speed Rail outlined in the Mobility 2035 – 2013 Update. The RTC anticipates High Speed Rail as yet another component to the regional transportation system. The vision was created in a way that connects major regions inside and outside of Texas to the Dallas-Fort Worth area. Not knowing the specific alignment for High Speed Rail routes, the Mobility 2035 – 2013 Update illustrates potential links to Houston, Austin, Oklahoma City, Oklahoma, and Little Rock, Arkansas.

While the RTC is highly aware of the future need to connect distant regions to North Central Texas, it also required that accessibility within the region not be marginalized. The Mobility 2035 – 2013 Update outlines the need for three major High Speed Rail stations in the region located near downtown Dallas, Mid-Cities and downtown Fort Worth. The three station concept provides regional access to High Speed Rail through an integrated corridor option while still holding to the High Speed Rail concept. The integrated corridor would serve both out of region demand and would provide for another east-west rail transit option for DFW commuters.
The plan includes a variety of roadway recommendations, ranging from relatively localized improvements to major regional projects. Because of financial constraints, billions of dollars in projects included in previous long-range plans have been deferred pending additional funding opportunities. These projects will continue to be evaluated to determine if improvements to mobility and accessibility can still be achieved through strategic modifications to project scope, staging or phasing.

A number of major corridor improvements will have user-fee components, or tolls. In an ideal world, there would be ample funds to add improvements without having to toll facilities. However, this is not the reality the region faces. The region has resolved to implement these types of facilities because they can be built more quickly and because collected tolls are used to pay back the funds used for construction and maintenance. This allows critically needed projects to be built in a timely manner. Without these types of facilities, a number of projects that are important to meeting the region’s mobility needs would be unfunded. The Mobility 2035 – 2013 Update also includes recommendations for other transportation improvements such as aviation, freight, and management and operational strategies. The recommendations outlined in the Mobility 2035 – 2013 Update strike a balance between meeting the most critical mobility needs and making a variety of transportation options available for a growing region.
Regional Congestion

Congestion is and will continue to be a significant concern for the region. Growth in population, coupled with decreased revenue, means congestion experienced in the region today will remain an issue for many years. Because congestion will continue to increase, transportation system management and operational strategies will play an important role in mitigating impacts on residents.

Congestion in the region will increase over time due to continued growth and a lack of funding for needed transportation improvements.

Management & Operations Strategies

Mobility 2035 - 2013 Update includes policies, programs and projects. These are just a few of the programs aimed at improving efficiency and removing trips from the transportation system.

**system management**
- Intersection improvements
- Traffic signal improvements
- Freeway and arterial bottleneck removal
- Work zone and special-event management

**demand management**
- Employer Trip Reduction program
- Vanpool, park-and-ride facilities and transportation management associations

**safety**
- Freeway Incident Management program
- Regional Mobility Assistance Patrol program
Regional Performance Measures

To measure the impacts transportation recommendations have on the region, performance measures are identified. A forecast of future population and employment changes for each county in the region is utilized to estimate future miles of travel and hours spent in delay for all vehicles in the region. This can be calculated on a per person basis to measure individual impacts.

<table>
<thead>
<tr>
<th>County</th>
<th>2013 Population</th>
<th>2035 Population</th>
<th>% Change</th>
<th>2013 Employment</th>
<th>2035 Employment</th>
<th>% Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Collin</td>
<td>828,937</td>
<td>1,404,149</td>
<td>69.3%</td>
<td>389,617</td>
<td>628,349</td>
<td>61.2%</td>
</tr>
<tr>
<td>Dallas</td>
<td>2,466,027</td>
<td>3,125,282</td>
<td>26.7%</td>
<td>2,179,877</td>
<td>2,854,287</td>
<td>30.9%</td>
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<tr>
<td>Denton</td>
<td>678,483</td>
<td>1,053,903</td>
<td>55.3%</td>
<td>239,618</td>
<td>406,105</td>
<td>69.5%</td>
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<tr>
<td>Ellis</td>
<td>167,153</td>
<td>252,768</td>
<td>51.2%</td>
<td>65,265</td>
<td>116,145</td>
<td>78.0%</td>
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<tr>
<td>Hood</td>
<td>69,317</td>
<td>97,805</td>
<td>41.1%</td>
<td>21,716</td>
<td>37,036</td>
<td>70.5%</td>
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<tr>
<td>Hunt</td>
<td>102,729</td>
<td>148,451</td>
<td>44.5%</td>
<td>49,282</td>
<td>78,163</td>
<td>58.6%</td>
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<tr>
<td>Johnson</td>
<td>178,738</td>
<td>272,061</td>
<td>52.2%</td>
<td>72,596</td>
<td>132,917</td>
<td>83.1%</td>
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<tr>
<td>Kaufman</td>
<td>119,132</td>
<td>193,509</td>
<td>62.4%</td>
<td>43,961</td>
<td>81,646</td>
<td>85.7%</td>
</tr>
<tr>
<td>Parker</td>
<td>125,519</td>
<td>193,730</td>
<td>54.3%</td>
<td>50,908</td>
<td>91,660</td>
<td>80.1%</td>
</tr>
<tr>
<td>Rockwall</td>
<td>89,733</td>
<td>172,568</td>
<td>92.3%</td>
<td>26,884</td>
<td>53,934</td>
<td>100.6%</td>
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<td>Tarrant</td>
<td>1,880,625</td>
<td>2,823,535</td>
<td>50.1%</td>
<td>1,121,541</td>
<td>1,644,463</td>
<td>46.6%</td>
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<tr>
<td>Wise</td>
<td>71,808</td>
<td>95,617</td>
<td>33.2%</td>
<td>31,251</td>
<td>52,311</td>
<td>67.4%</td>
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<tr>
<td>Region</td>
<td>6,778,201</td>
<td>9,833,378</td>
<td>45.1%</td>
<td>4,292,516</td>
<td>6,177,016</td>
<td>43.9%</td>
</tr>
</tbody>
</table>

Vehicle Miles of Travel per Person Between 2013 and 2035 (Average Weekday)

Change in Time Spent in Delay Between 2013 and 2035 (Average Weekday)
Summary

The region is no longer in a situation where business as usual can continue. Because of the long-term outlook of transportation funding, the continued growth of the Dallas-Fort Worth region and the need to provide a transportation system that is accessible and improves residents’ quality of life, a continued focus on regional transportation priorities and innovative ways of delivering transportation projects is required. The policies, programs and projects recommended in the Mobility 2035 – 2013 Update are the product of a comprehensive, cooperative and continuous planning effort. The recommendations reflect a shift in how the region will strive to meet the mobility, quality of life, system sustainability and implementation goals that will lead to continued economic development, a competitive business climate and better quality of life.

Mobility 2035 - 2013 Update Adoption

The Regional Transportation Council adopted the Mobility 2035 – 2013 Update in June 2013. The Plan received a favorable Air Quality Conformity determination from The Federal Highway and Federal Transit Administrations in July 2013. The approval of the Mobility 2035 – 2013 Update allows crucial programs and projects that seek to meet the region’s transportation goals to move forward to implementation.
We Need Your Help to Build a 21st Century Transportation System

This report is a blueprint for the multimodal transportation system through 2035, outlining roadway, rail and quality-of-life projects intended to accommodate the public well into the future. The Mobility 2035 – 2013 Update lays out many potential solutions, but is heavily dependent on the collective wisdom of the region’s nearly 6.8 million residents to bring its plans to fruition.

Residents and business are an integral part of the process. We invite you to help us develop these plans into projects that make your commutes more reliable so you don’t have to waste so much time stuck in traffic.

Even if you have a complaint about the system, don’t be afraid to speak up. Knowing what is troubling you will help us better serve you and could even become the foundation of the next great transportation idea.

We have a few questions that will help you become part of the solution.

1. Is it easy for you to participate in the transportation planning process?
2. What changes could we make to better serve you?
3. Are there specific transportation improvements that would enhance your quality of life?
4. How would these improvements make your commute more reliable?
5. How could transportation and development be better integrated to ensure the Dallas-Fort Worth area’s continued prosperity?

Let us know how you would answer these and submit questions you have about the process. It is easy to get involved through either traditional or new channels. Visit a public meeting to voice your opinion about a project in your neighborhood. The Regional Transportation Council conducts these meetings regularly at locations throughout the region to encourage wider participation and attract residents who would be most affected by proposed projects. This is where we outline plans, projects, programs, policies and partnerships that will improve transportation. We use data to ensure the system’s performance meets expectations. Where changes need to be made, the region’s partners respond. Information on upcoming meetings is available at www.nctcog.org/meetings.

We understand it may be difficult to set aside the time to attend a morning or evening meeting, even if the topic is relevant to your personal or business life. So we offer several other options for sharing your opinions.

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