Welcome
Texas Transportation Plan 2050
Virtual Public Hearing
August 11, 2020
10 a.m.
WebEx

Comment Deadline: August 24, 2020
Email: TTP_2050@txdot.gov
Voicemail: 1-855-TEXAS-50 (1-855-839-2750)
USPS: TxDOT TTP 2050
c/o Ximenes & Associates
411 Sixth Street
San Antonio, TX 78215
Why Virtual?

- TxDOT is committed to public health and community engagement.
- Seek to emulate an in-person experience as much as possible.
TTP 2050 Overview

Draft plan available online at www.txdot.gov
keyword search “TTP 2050”
A federal and state mandated document, updated every 4 years, that:

- Establishes long-range vision for Texas transportation
- Provides a framework for assessing performance implications of alternative strategies and futures
- Details TxDOT roles, responsibilities, and system performance targets
- Guides planning and programming decisions for the statewide multimodal transportation system
Where TTP 2050 Fits

- **Texas Transportation Plan**
  - Guides planning and programming decisions for the statewide multimodal transportation system
  - Updated: Every 4 years
  - 24+ years

- **Modal and Corridor Plans**
  - Establishes vision and identifies improvement options for modes and priority corridors
  - Updated: Every 4 years
  - ~20 years

- **Unified Transportation Program**
  - Identifies a pipeline of projects to make progress towards agency performance goals
  - Updated: Annually
  - 10 years

- **Statewide Transportation Improvement Program**
  - Lists approved projects with fully assigned funding in the final stages of development
  - Updated: Every 2 years
  - 4 years

- **Letting Schedule**
  - Authorizes and administers planned funding for projects to be constructed
  - Updated: Annually
  - 2 years

**Far horizon**

**Near horizon**
TTP 2050 Plan Overview

Executive Summary

1. Introduction
2. Goals, Objectives, Measures, and Targets
3. Texas Transportation System
4. Planning for the Future of Transportation
5. Rural Transportation in Texas
6. Public Involvement
7. TTP 2050 Implementation Strategies

Appendices
TTP 2050 Chapter Highlights

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Chapter 1: Introduction

- **Plan Overview**
  TTP purpose and alignment with TxDOT planning documents

- **Plan Development Process**
  Including compliance with legislative requirements

- **The Planning Context**
  Details anticipated future trends and challenges

- **Transportation Vision for Texas**
  TxDOT’s path for achieving long-range goals and objectives

## Trends and Challenges

<table>
<thead>
<tr>
<th>Category</th>
<th>Details</th>
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<tbody>
<tr>
<td><strong>Safety Concerns</strong></td>
<td>About 10 deaths and 48 serious injuries are reported every day on Texas roadways.</td>
</tr>
<tr>
<td><strong>Economic Expansion</strong></td>
<td>By 2046, gross state product will increase from about $2 trillion to $7 trillion.</td>
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<tr>
<td><strong>Technological Advancement</strong></td>
<td>Fast technological change in areas like connected and autonomous vehicles will create opportunities and challenges for transportation safety and efficiency.</td>
</tr>
<tr>
<td><strong>Population Growth</strong></td>
<td>Texas will grow from about 29 million people to over 47 million people by 2050.</td>
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<tr>
<td><strong>Surging Freight Demand</strong></td>
<td>Commodities moved through the Texas Multimodal Freight Network will double to about 4 million tons per year by 2045.</td>
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<tr>
<td><strong>Systemic Risks</strong></td>
<td>A resilient transportation system must be equipped to avoid, minimize, and recover from unforeseen events like natural disasters or other major incidents.</td>
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Chapter 2: Goals, Objectives, Measures, and Targets

• **Goals**
  Statement of priority for making progress towards desired outcome

• **Objectives**
  Provides clearer direction and actions to attain goals

• **Measures**
  Indicative of progress towards goal attainment and informs planning and programming decisions

• **Targets**
  Aspirational but achievable benchmark

**TTP 2050 Goals**

- **Promote Safety**
- **Preserve our Assets**
- **Optimize System Performance:** Movement of People and Goods
- **Deliver the Right Projects**
- **Foster Stewardship:** Protect and Enhance the Human and Natural Environment
- **Focus on the Customer:** Communicate Effectively

**Track progress towards goals through the TxDOT Performance Dashboard at [www.dot.state.tx.us/dashboard](http://www.dot.state.tx.us/dashboard)**
Chapter 3: Texas Transportation System

• **Focus Areas**
  Describe TxDOT’s multimodal roles and responsibilities relative to other agencies and organizations

• **Moving People**
  Highway Safety, Preservation, Mobility, ITS, Bicycle and Pedestrian, Public Transportation, Aviation, Ferry Operations, and Passenger Rail

• **Moving Goods**
  Texas Highway Freight Network, Freight Rail, Ports and Waterways, Air Cargo, and Pipelines
Chapter 4: Planning for the Future of Transportation in Texas

- **Defining Scenarios**
  Considering future population and projected economic growth, varying levels of freight demand and technology adoption, along with investment strategies given anticipated revenues.

- **Performance Implications**
  Evaluating potential degree of impact on transportation performance measures.

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**Elements of an Assessable Future**

<table>
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<tr>
<th>Held Constant</th>
<th>Expected and Optimistic Baselines</th>
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</thead>
<tbody>
<tr>
<td><strong>Population</strong></td>
<td><strong>Technology</strong></td>
</tr>
<tr>
<td>Including the distribution of new and relocating Texans</td>
<td>Adoption and shifts in future travel behaviors</td>
</tr>
<tr>
<td><strong>Revenue</strong></td>
<td><strong>Freight</strong></td>
</tr>
<tr>
<td>Available to fund TxDOT programs and initiatives</td>
<td>Commodity tonnages travelling within and through Texas</td>
</tr>
</tbody>
</table>

**Investment Strategies**

- Balanced Approach
- Keep it Smooth
- Congestion Relief
- Reliably Connect Texas Communities
- Public Involvement Generated Scenario
Chapter 5: Rural Transportation in Texas

- **Rural Transportation Planning and Programs**
  Describes TxDOT’s roles, responsibilities and funding for rural areas

- **Rural Transportation System Overview and Performance Levels**
  Details rural transportation inventory and performance

- **Planned Rural Transportation System Improvements**
  Discusses planned project scopes and costs for areas outside of metropolitan areas

- **Key Rural Transportation System Considerations and Strategies**
  Unique priorities and challenges

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**Did You Know?**

- **15% of Texas residents**
  live in rural areas (roughly 1 Texan in 7)

- **53% of the Texas Highway Freight Network is located in rural areas**

- **TxDOT has identified**
  $4,700 of planned investment per rural resident

- **This planned investment is nearly 33% higher than the statewide average**

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Chapter 6: Public Involvement

• Outreach Summary
  Overview of engagement opportunities

• Feedback on Goals and Objectives
  Language revisions and goal rankings

• How Texans Use the Transportation System
  Usage/behavioral trends and focal areas

• Level of Comfort with Emerging Technologies
  Willingness to use technology (i.e. driverless vehicles) and planning considerations

• Investment Strategy Preferences
  Resource allocation strategy
Chapter 7: TTP 2050 Implementation Strategies

- **Strategy Identification**
  Process for identifying and evaluating by implementation timeframe

- **Planning for the Future**
  Emerging transportation technology and enhancing system resiliency

- **Focus Area Strategies**
  Modal strategies to enhance statewide performance

- **Program Delivery Strategies**
  Corridor Prioritization, major projects, environmental compliance, performance-based project selection, and sustainable funding

TxDOT’s Performance Based Planning and Programming Process

- Collect Data
- Prioritize Projects
- Optimize Programs
- Evaluate Performance
Key Takeaways

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keyword search “TTP 2050”
Key Takeaways

Transportation Impacts

Increased Travel Demand
- More demand for non-highway travel options
- Increased wear and tear on infrastructure

Changes in Travel Behavior
- Improved safety and traffic flow from advances in technology
- Increased telecommuting and ride hailing services
- Induced travel from increased convenience

Need for Resiliency
- Need for identifying most vulnerable areas
- Increased redundancy needed in case of road closures

Need for continued long-term, sustainable funding to prepare for possible futures
Thank You

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