



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

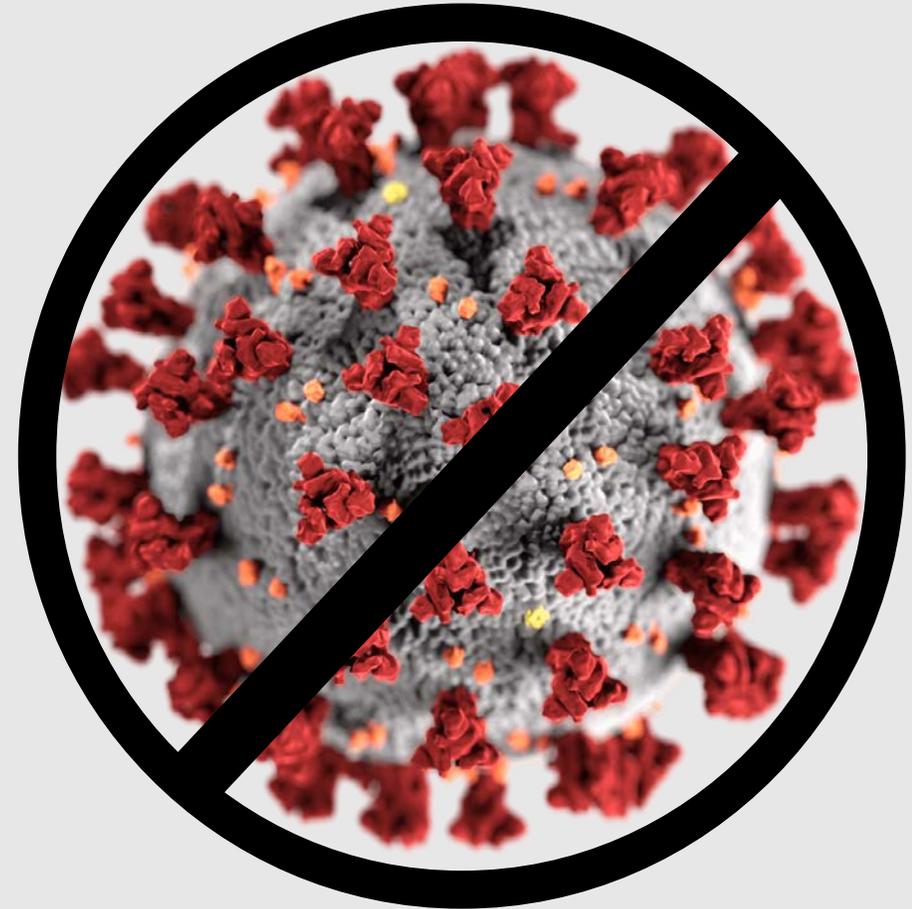
c/o Ximenes & Associates

411 Sixth Street

San Antonio, TX 78215



- TxDOT is committed to public health and community engagement
- Virtual public hearing in response to the COVID-19 pandemic.
- Seek to emulate an in-person experience as much as possible.





Texas Transportation Plan 2050

Planning for the Future of the Texas Multimodal System

August 11, 2020 Public Hearing

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



Highway/Bridge



Truck Freight



Public
Transportation



Bicycle and
Pedestrian



ITS



Aviation



Ports/Waterways



Passenger Rail



Freight Rail



Pipelines

1 Where TTP 2050 Fits



▲
Vision, strategies
and system
priorities

Texas Transportation Plan

guides planning and programming decisions for the statewide multimodal transportation system

Updated: Every 4 years

24+
years

Far horizon

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

▼
Funding for
programs and
prioritized
projects

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

Near horizon



1 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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- **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



Safety Concerns

About 10 deaths and 48 serious injuries are reported every day on Texas roadways.



Economic Expansion

By 2046, gross state product will increase from about \$2 trillion to \$7 trillion.



Technological Advancement

Fast technological change in areas like connected and autonomous vehicles will create opportunities and challenges for transportation safety and efficiency.



Population Growth

Texas will grow from about 29 million people to over 47 million people by 2050.



Surging Freight Demand

Commodities moved through the Texas Multimodal Freight Network will double to about 4 million tons per year by 2045.



Systemic Risks

A resilient transportation system must be equipped to avoid, minimize, and recover from unforeseen events like natural disasters or other major incidents.



- **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

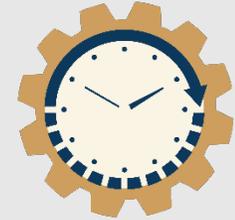
Promote Safety



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

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

How TxDOT and Others Contribute to Each Mode on the State System

The Texas Transportation Plan (TTP) 2050 covers all transportation modes across the state, but TxDOT's involvement in each varies. See how different entities – including TxDOT – fit into the planning, funding, design, and construction of each mode in Texas.



Infrastructure & Operations
Responsible for the construction, maintenance, and functioning of facilities.



Planning & Coordination
Takes part in discussions on overall plans and investment priorities.



Design Guidance
Provides input on final project from and outcomes.

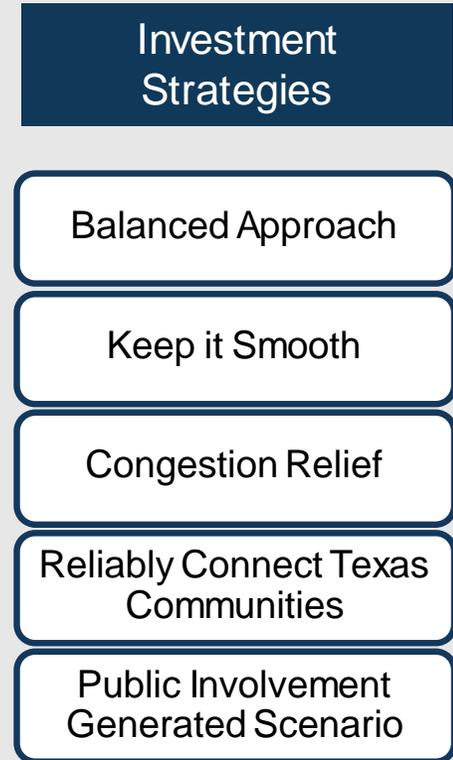
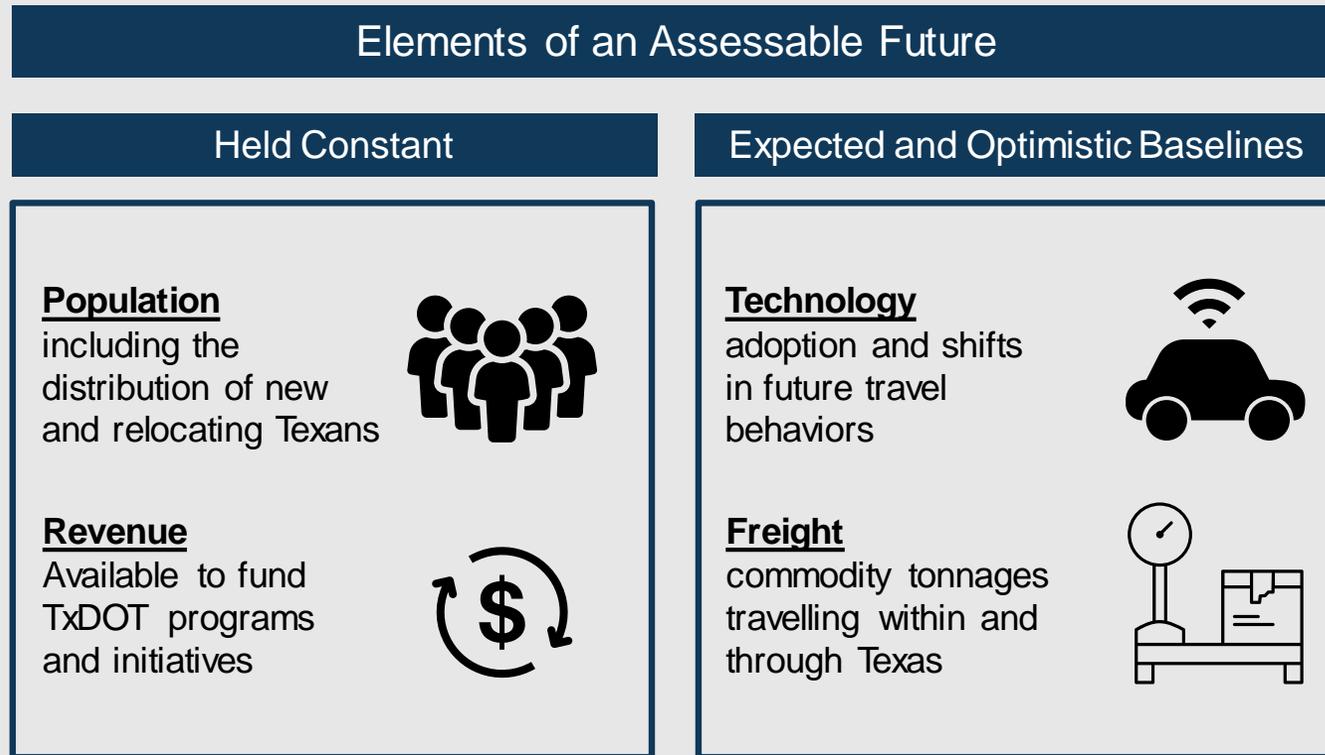


Administer Funding
Funds projects or serves as "pass through" for Federal or other funds.

	Highway & Bridge	Truck Freight	Bicycle & Pedestrian	Aviation	Intelligent Transportation Systems (ITS)	Ports & Waterways	Passenger Rail	Public Transportation	Freight Rail	Pipelines
Texas Department of Transportation (TxDOT) State										
US Department of Transportation Federal										
Metropolitan Planning Organizations (MPOs) Regional										
Metropolitan Transit Authorities (MTAs) Large Urban										
Regional Mobility Authorities (RMAs) Local										
Cities, Counties & Tribes Local										
Private Industry Non-governmental										



- 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





- **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

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





- **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

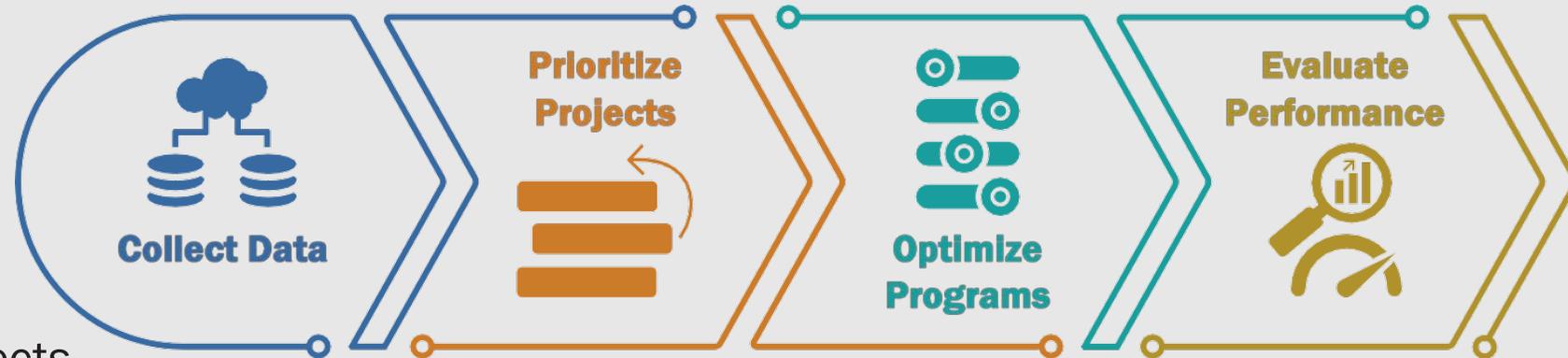
Sample TTP 2050 Outreach Content





- **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



Key Takeaways

Draft plan available online at www.txdot.gov
keyword search “TTP 2050”



Surging Freight Demand



Technological Advancement



Systemic Risks



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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