



TEXAS PERMIAN BASIN REGIONAL FREIGHT AND ENERGY SECTOR TRANSPORTATION PLAN

Stakeholder Listening Sessions – Round 1



Agenda

MEETING PURPOSE

Gather insight, input and feedback directly from the users of the system on defining the Permian Basin's priority freight and energy sector transportation network and understanding the freight operations, issues and challenges to the region's freight mobility.

Project Overview

Session Overview

Regional Priority Freight Network

Network Operations, Issues and Challenges

Plan Timeline and Next Steps



STUDY OVERVIEW

Why a Texas Permian Basin Regional Freight Plan?

PURPOSE

Develop a multimodal regional freight plan to improve safety and mobility throughout the Permian Basin region by addressing local and regional freight challenges, opportunities, and strategies

Freight activity in Permian Basin region has significant local, state and national implications

Region produces an average of 4.0 million barrels of oil a day (May, 2019)

Rapid economic growth and increasing energy sector freight volumes outpacing investment

2,000 or more truck trips per new well are generated in the region

Between 2010 to 2018, there was a 47% increase in the number of roadway crashes and a 64% increase in roadway fatalities

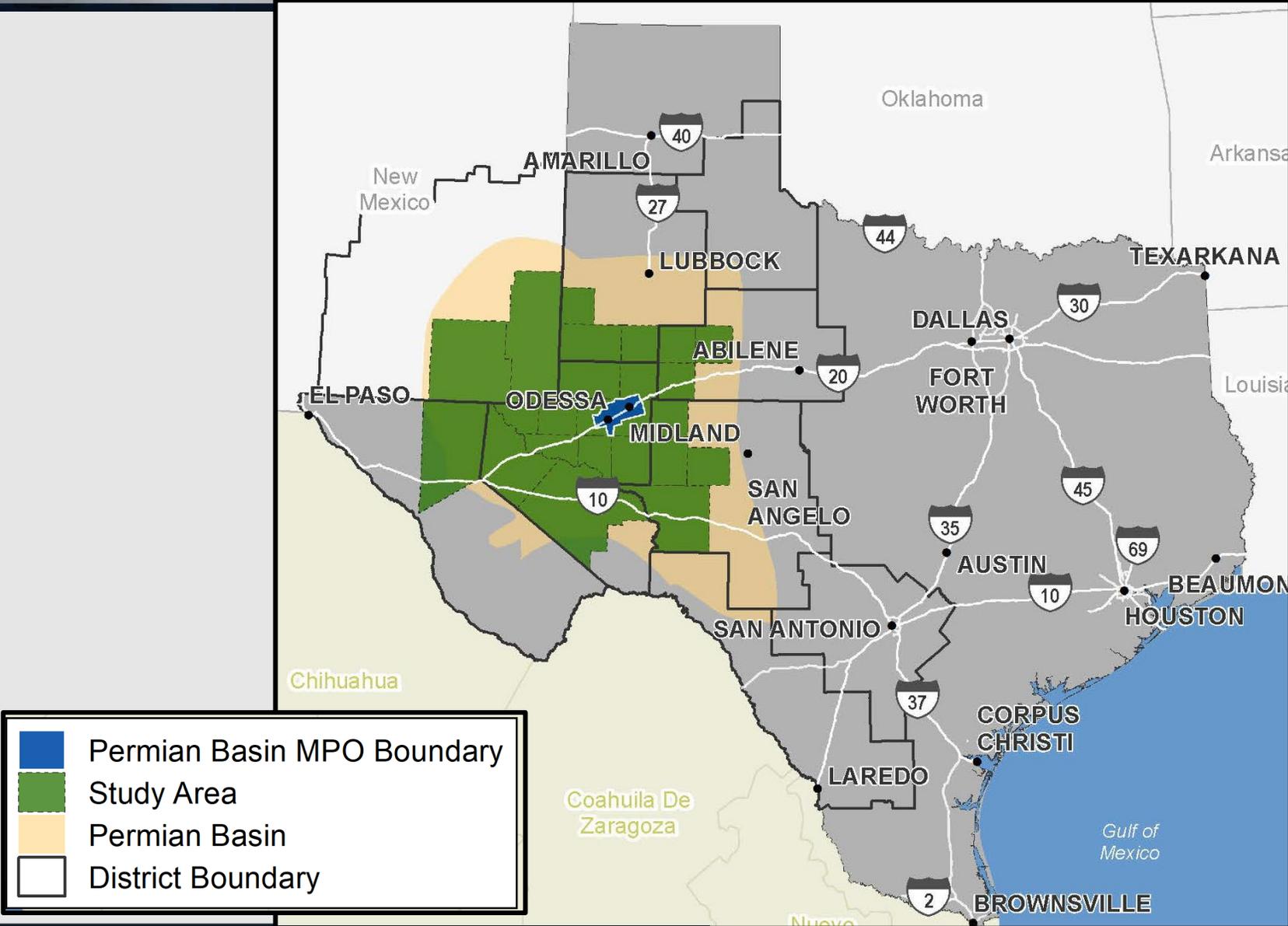
Region generated over \$4.9 billion in State revenues in 2017, accounting for nearly 10% of all state-generated general revenue

Permian Basin Regional Energy Sector and Freight Transportation Plan Study Area

22 Texas Counties

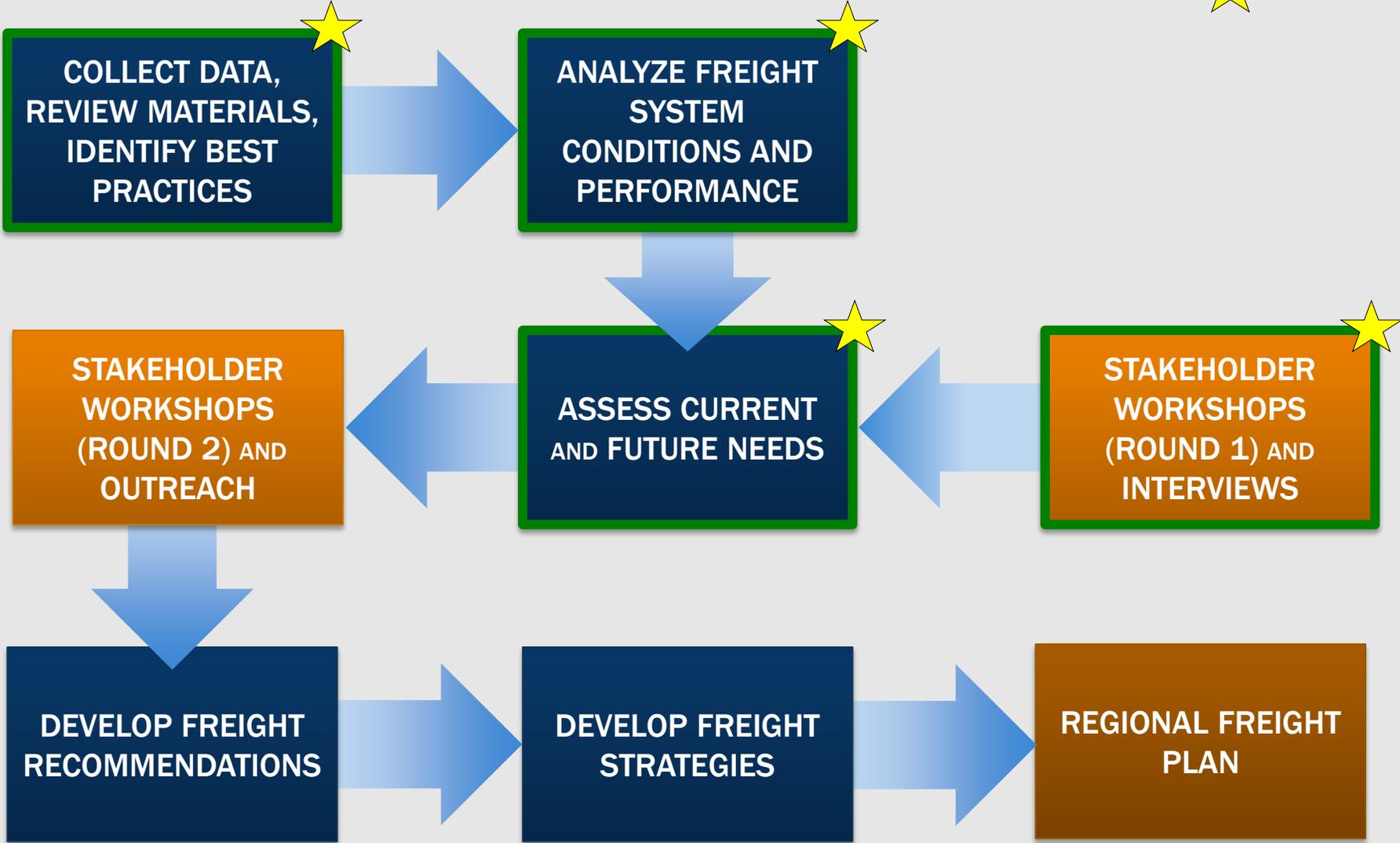
2 New Mexico Counties

*Permian Basin
Sphere of Influence*



Plan Development Approach

★ - WE ARE HERE



Plan Goals Based on State Goals and Initial Stakeholder Input

Safety	Improve the safety, efficiency, and performance of the Permian Basin region’s multimodal freight system
Economic Competitiveness	Enhance the economic competitiveness, productivity, and development in the Permian Basin region and its integrated dependent communities, networks, and markets by ensuring the region’s freight transportation network is adequate to support the energy sector and other freight intensive industries
Mobility and Reliability	Enhance mobility and improve system efficiency and performance on the Permian Basin region’s transportation system by expanding capacity and addressing freight bottlenecks
Connectivity	Improve urban and rural system connectivity between all freight modes within the Permian Basin region and all industry sectors to regional, statewide, national, and international markets
Sustainable Funding	Identify sustainable funding sources for the Permian Basin region’s freight transportation system, which is critical to Texas in serving the energy sector
Stewardship	Manage environmental and agency resources responsibly and foster accountability and transparency in decision-making
Customer Service	Encourage local ownership of and coordination in the development of the plan by engaging public and private sector stakeholders in transparent dialogue to determine consistent and comprehensive regional transportation planning strategies and recommendations
Asset Preservation	Maintain and preserve the Permian Basin’s transportation infrastructure as it supports multimodal movement of people and goods and energy sector freight

Plan Objectives Based on Initial Stakeholder Input

Regional Freight Objective	Regional Freight Goal
Supplement state data with local and regional data collection specific to energy sector activity	<ul style="list-style-type: none"> • Mobility and Reliability • Safety
Identify and assess the regional transportation network serving energy sector needs currently and in the future	<ul style="list-style-type: none"> • Economic Competitiveness • Mobility and Reliability • Connectivity
Enhance regional freight forecast and travel demand modeling capabilities by accounting for future energy sector traffic, trends, and activity	<ul style="list-style-type: none"> • Mobility and Reliability • Asset Preservation
Support identification of policies, programs and projects to address energy sector freight activity for inclusion in the Plan	<ul style="list-style-type: none"> • Economic Competitiveness • Mobility and Reliability • Asset Preservation
Document energy sector freight movement and its economic and operational impact to local communities, the state, and the nation and effectively communicate that impact to state and federal officials system to inform policy and investment decisions	<ul style="list-style-type: none"> • Economic Competitiveness • Sustainable Funding
Improve multimodal connectivity and mobility between urban and rural areas and from the Permian Basin to the rest of the state and nation	<ul style="list-style-type: none"> • Connectivity • Mobility
Develop short and long term actionable strategies for enhancing regional freight mobility, connectivity, and safety on the local and regional transportation system	<ul style="list-style-type: none"> • Safety • Mobility and Reliability • Connectivity • Stewardship
Seek formal adoption of the Regional Freight Plan by the Texas Transportation Commission	<ul style="list-style-type: none"> • Sustainable Funding • Customer Service

KEY ACTIVITIES

- Stakeholder kickoff meeting held May 31
- Engage and coordinate with Permian Basin Regional Freight Plan Advisory Committee
- Conduct stakeholder interviews (40)
- Online interactive stakeholder survey (MetroQuest)
- Coordinate with MPO committees and New Mexico Department of Transportation
- Conduct stakeholder listening sessions (2 rounds)



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- What are your priorities for the plan?
- What are critical issues/opportunities that we **MUST NOT MISS** on this Plan?



SESSION OVERVIEW



Series of Six Meetings

1

Energy Sector Perspective

Sand Perspective

2

3

Carriers and Haulers Perspective

Rural Community Perspective

4

5

Urban Area Perspective

State Agency Perspective

6

How Can You Help?

Round 1 Stakeholder Meetings

- Review Plan Goals and Objectives
- Discuss Regional Multimodal Freight and Energy Sector Network
- Identify multimodal freight network needs and challenges
- Provide input on local freight data



To be used in Regional Freight Plan

- Finalize Plan Goals and Objectives
- Designate Regional Multimodal Freight and Energy Sector Network
- Multimodal Needs Assessment
- Local Data Enhancement
- Inform Strategies and Recommendations



ENERGY SECTOR FREIGHT TRIP GENERATION



Stages of Development



Site preparation



Pad construction



Rig assembly



Drilling and casing



Fracturing – different stages?



Production



Maintenance

Have we adequately captured the process?

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On average, how many heavy haul freight truck trips are generated for each of these phases? What are major commodities? Role of other modes? What is timeline of each phase?

Site
preparation

Pad
construction

Rig assembly

Drilling and
Casing

Fracturing

Production

Maintenance



ISSUES, CHALLENGES AND NEEDS



1

Congestion and mobility

Safety

2

3

Truck parking

Access and connectivity

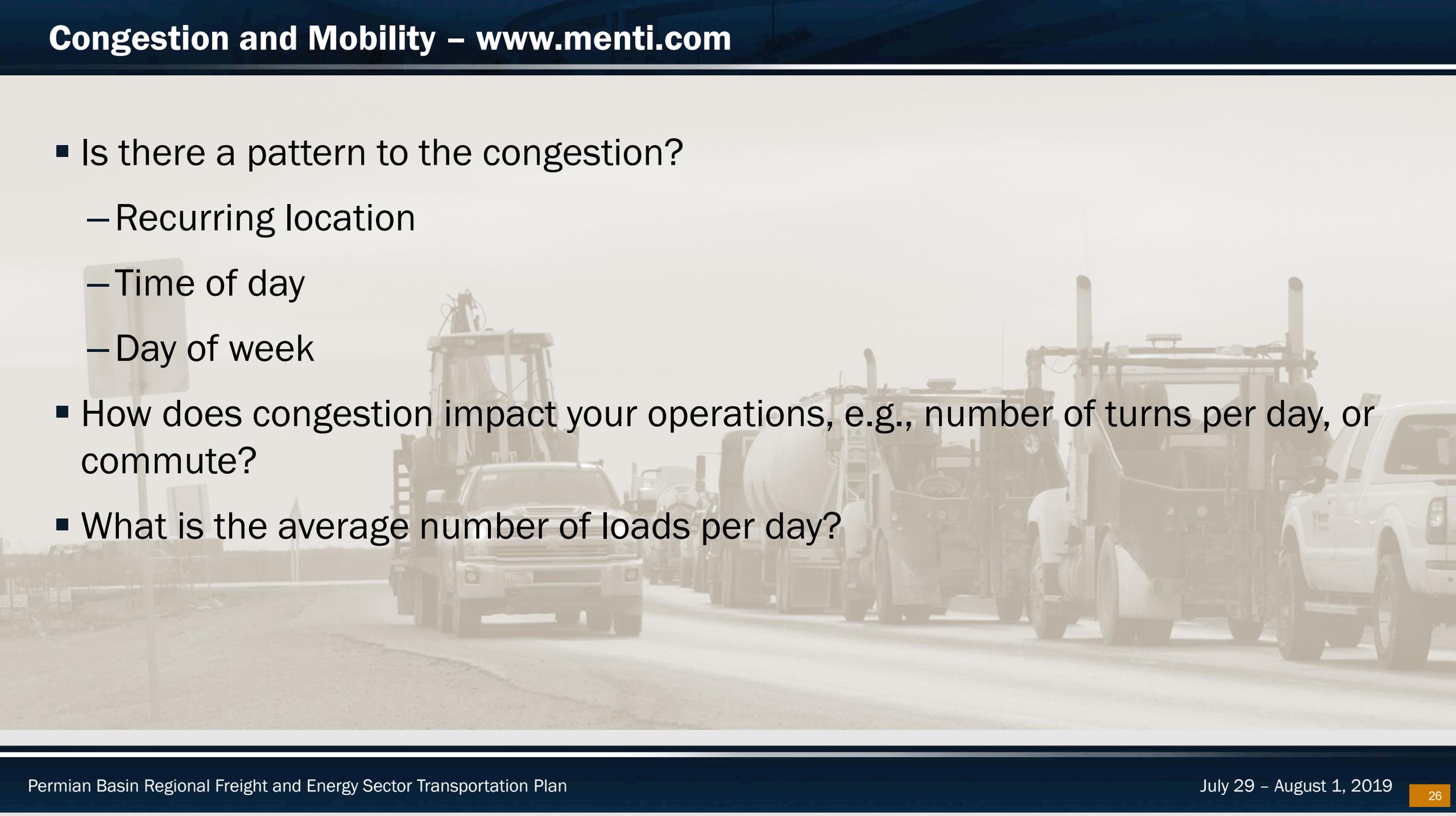
4

5

Infrastructure design

Economic Competitiveness

6

- Is there a pattern to the congestion?
 - Recurring location
 - Time of day
 - Day of week
 - How does congestion impact your operations, e.g., number of turns per day, or commute?
 - What is the average number of loads per day?
- 

- Where are safety hotspots such as intersections, routes, etc.?
- What are some of the causes of crashes?
- How does safety impact your operations/communities?
- How is incident clearance and emergency response?
- What are some potential solutions?

- Does the network provide adequate access between where freight originates and where it needs to go?
- Does it connect to areas of current energy production sites? Anticipated future production sites?



- Are there roadway/network design elements that cause issues? Where?
- How does it impact traffic flow?
- How does it impact your operations?



- Does the transportation network impact your cost of doing business and the competitiveness of the Permian Basin region? How?





WRAP-UP



Key Deliverables

Task	Deliverables	Schedule
Technical Analysis and Reports	Stakeholder Outreach and Interviews	April – July 2019 and January – March 2020
	Energy Sector / Freight Data Collection	July 2019
	Multimodal Energy Sector / Freight Transportation Network	July 2019
	Economic and Commodity Flow Profile and Forecast	November 2019
	Land Use and Needs Assessment	December 2019
	Energy Sector / Freight Strategies and Recommendations	January 2020
	Freight Analysis Tool	March 2020
	Investment Plan and Implementation Program	April 2020
	Economic Importance and Impact of Energy Sector Memo	May 2020
	Final Plan and Executive Summary	June 2020

Technical Analysis

- Collect data from public and private sources
- Regional freight network and needs assessment
- Develop economic and commodity flow profile

Stakeholder Outreach

- Online survey and interactive map (August 2019)
- Plan Advisory Committee (September 2019)
- Stakeholder interviews (Ongoing)
- Round 2 listening sessions (February/March 2020)



Thank you!

**Contact us for more information about the Permian Basin
Regional Freight and Energy Sector Transportation Plan**

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