



TEXAS PERMIAN BASIN REGIONAL ENERGY SECTOR AND FREIGHT TRANSPORTATION PLAN

Kick-off Meeting

May 31, 2019 9:00 am – 12:00 pm



Today's Agenda

Time	Topic	Lead
9:00 – 9:30	Welcome and Introductions	Casey Wells, <i>Freight Planner, TxDOT</i> Caroline Mays, <i>Director - Freight, Trade, and Connectivity, TxDOT</i> John Speed, <i>District Engineer, TxDOT Odessa District</i> Alvin New, <i>Commissioner, Texas Transportation Commission (TTC)</i> Judge Debi Hays, <i>Ector County</i>
9:30 – 9:45	The Permian Impact	Judge Debi Hays (<i>Ector County</i>)
9:45 – 10:15	Plan Overview Scope of Work <ul style="list-style-type: none"> • Goals and Objectives • Data Collection • Needs Identification/Assessment • Stakeholder Engagement • Schedule 	Paula Dowell (<i>Cambridge Systematics</i>) Casey Wells (<i>TxDOT</i>)
10:15 – 10:30	Break	
10:30 – 11:30	Interactive Discussion	Paula Dowell (<i>Cambridge Systematics</i>)
11:30 – 12:00	Next Steps	Paula Dowell (<i>Cambridge Systematics</i>) Casey Wells (<i>TxDOT</i>)
	Closing Remarks	Judge Debi Hays (<i>Ector County</i>) John Speed (<i>TxDOT</i>) Commissioner Alvin New (<i>TTC</i>)



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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

2018 Texas Freight Mobility Plan Identified the Need to...

A

Better capture local and regional energy sector freight data

B

Identify regional roadways critical to serving the energy sector

C

Communicate the economic importance of freight activity in the PB

D

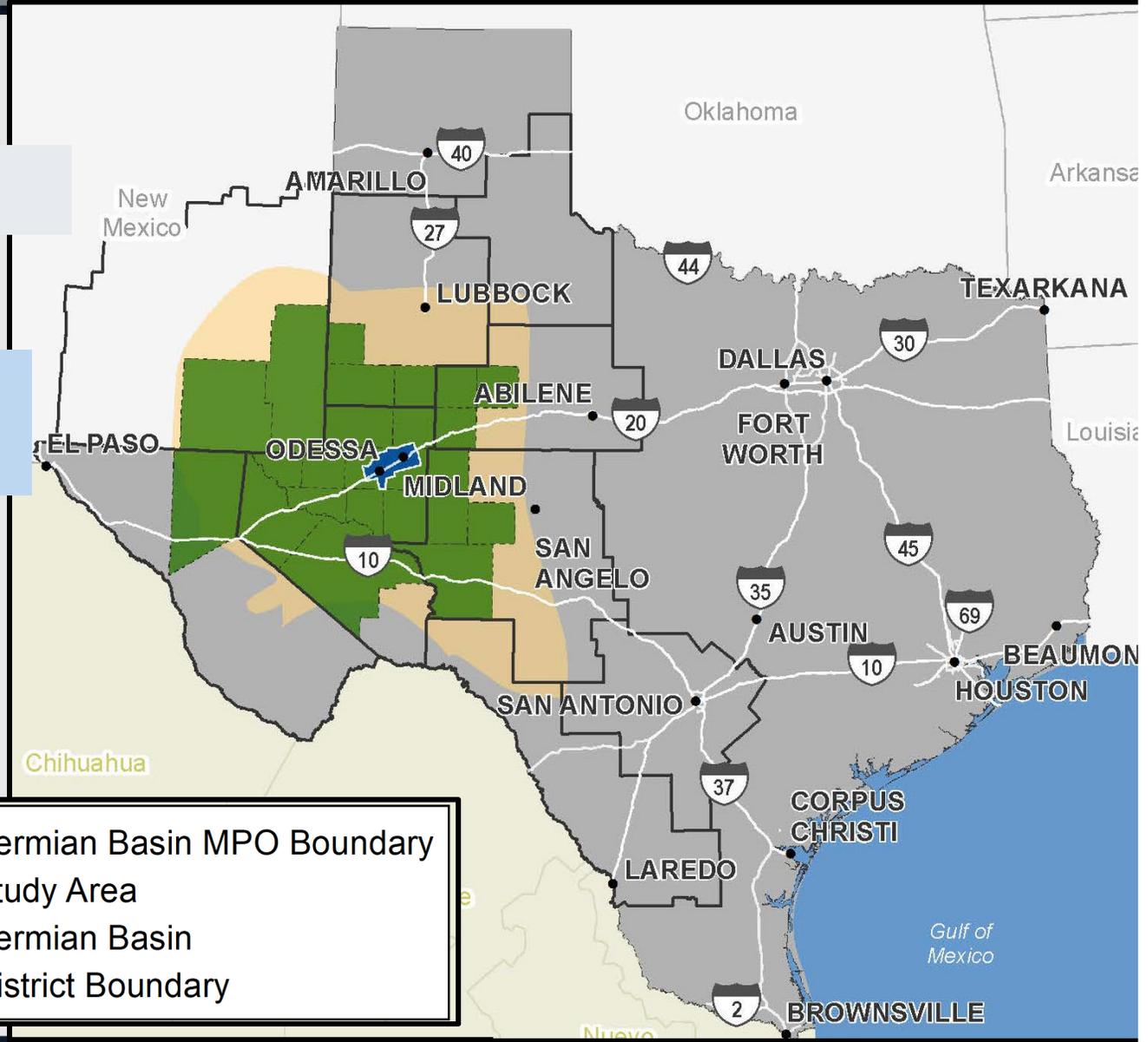
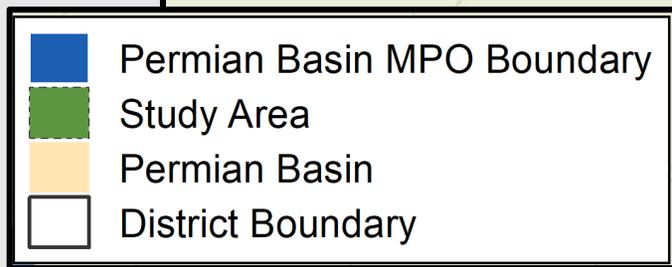
Develop local and regional projects, policies, and programs to improve freight movement in the PB

Permian Basin Regional Freight Plan Study Area

22 Texas Counties

2 New Mexico Counties

Permian Basin Sphere of Influence





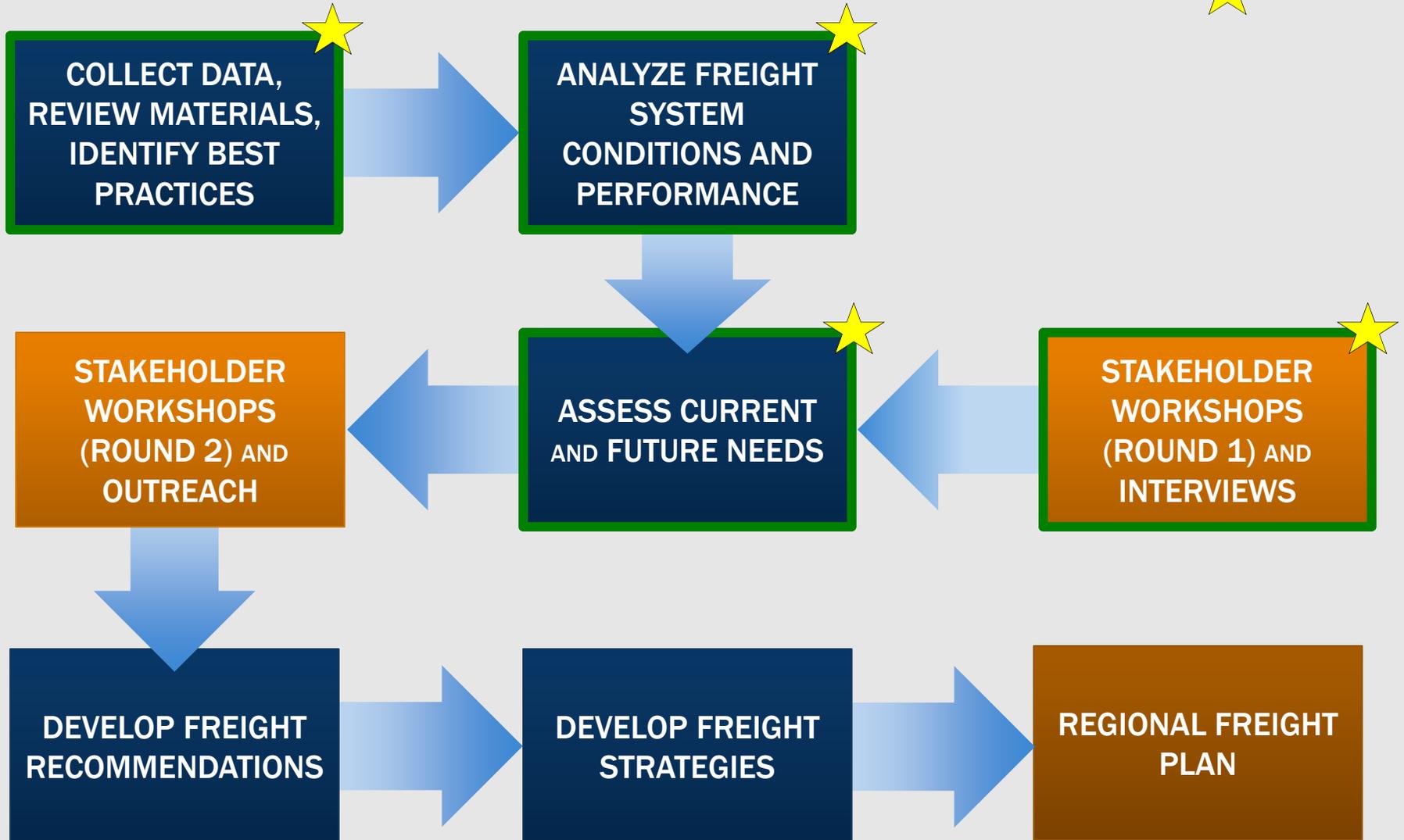
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SCOPE OF WORK

Plan Development Approach

★ - WE ARE HERE



Draft 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	Improve the contribution of the energy sector transportation system for economic competitiveness, productivity, and development in the Permian Basin region and beyond
Mobility and Reliability	Reduce congestion and improve system efficiency and performance on the Permian Basin region's transportation system
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 and sustain funding sources for the energy sector's and Permian Basin region's freight transportation system
Stewardship	Manage environmental and agency resources responsibly and foster accountability and transparency in decision-making
Customer Service	Engage 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 that supports multimodal movement of energy sector freight, goods and people

Draft Plan Objectives Based on Initial Stakeholder Input

1. Supplement state freight data with **local and regional freight and traffic data collection** specific to energy sector activity
2. Identify and assess the critical **regional transportation network serving energy sector needs** currently and in the future
3. Enhance regional **freight forecast and travel demand model** by accounting for future energy sector traffic, trends, and activity
4. Support identification of **policies, programs and projects to address energy sector freight activity** for inclusion in the Plan
5. Document the **impact of Permian Basin freight movement** to local, state, and national economies
6. Improve connectivity and mobility between **urban and rural areas and from the Permian Basin to the rest of the state and nation**
7. Develop short and long term strategies for enhancing **regional freight mobility, connectivity, and safety** on the local and regional transportation system

Goals and Objectives Input– www.menti.com

What are the priorities for this plan?

How would you modify the goals?

How would you modify the objectives?

Data Collection

Current Data Collection Efforts

- Transportation Network
 - National, state, and local roadway networks
 - Railroads, airports, pipelines
- System Usage and Performance
 - Travel times
 - Traffic volumes
 - Crashes
 - Commodity flows
 - OS/OW Trends
- Economic and Land Use
 - Growth trends and projections
 - Development plans
 - Establishment locations
- Energy Industry
 - Drilling permits
 - Oil and gas production areas

Data Partnership Opportunities

- In-vehicle monitoring data
 - Origins and destinations of truck traffic not captured in State and federal databases
 - Travel times on local corridors not captured in State and federal databases
 - Locations of safety concerns
- Water truck activity generated from drilling and production
- Sand truck activity generated from drilling and production
- Future drilling locations

Key Technical Tasks

CURRENT AND FUTURE NEEDS IDENTIFICATION & ASSESSMENT ACTIVITIES

- Assess and collect data and review existing studies and plans
- Assess freight conditions, performance, and needs
 - Infrastructure characteristics and conditions
 - Safety analysis
 - Congestion analysis
 - Connectivity analysis – local, regional, statewide
 - Capacity Analysis
- Designate regional multimodal freight network
- Identify energy sector needs, bottlenecks and connectivity issues
- Analyze energy sector land use and local, regional, and statewide impact
- Document economic importance and impact at local, regional, state and national levels

Needs and Challenges Input– www.menti.com

What are needs, challenges, and concerns for your city, county or region?

Infrastructure – systemic and specific locations
Operations – public and private sector
Policy/regulations – local, state, national
Other

Economic Importance of the Permian Basin Region

- Profile key energy sector and freight intensive industry sectors and supply chains in the region
- Identify, quantify, and document the importance of the region's energy sector, freight and economic activity to the state and the nation
- Estimate the impact of not effectively meeting the region's energy sector and freight transportation needs
- Supplement existing regional socioeconomic and other data

Key Technical Tasks

RECOMMENDATIONS AND STRATEGIES *DATA DRIVEN, STAKEHOLDER INFORMED*

- Identify current, anticipated, and proposed policies, programs and projects that may or will improve energy sector and freight mobility in the region
 - Multimodal infrastructure projects
 - Operational strategies (signal timing, incident clearance)
 - Technology programs and projects
 - Regulatory policies (funding, permitting, market access)
 - Land use strategies
 - Partnerships
 - Other

Performance-based prioritization methods and tools will inform the regional Energy Sector and Freight Transportation Investment Plan and Implementation Strategies



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STAKEHOLDER OUTREACH



Stakeholder Engagement

KEY ACTIVITIES

- Permian Basin Regional Freight Plan Advisory Committee
- Stakeholder interviews (40)
- Outreach Events (2 rounds of 6 events):
 - Focus Groups
 - Workshops
- Web-based survey to begin informing strategies
- MPO Technical Advisory Committee (3) and Policy Board (3) Meetings



Plan Advisory Committee

Establish the Permian Basin Regional Freight Plan Advisory Committee to help guide the development of the plan.

The Committee will meet up to 5 times during the development of the Plan.

Convene Committee

- Identify potential members
- Develop considerations for engagement
- Establish committee structure

Engage Committee

- Provide guidance on stakeholders to provide
- Vet data and preliminary findings
- Identify needs and strategies
- Champion the plan throughout the region

What are your expectations for the Plan Advisory Committee?



Stakeholder Interviews

Public

- TX Department of Transportation
- NM Department of Transportation
- Metropolitan Planning Organization
- Regional Planning Commission
- Cities
- Counties
- Economic Development
- Chamber of Commerce
- Federal Agencies
- State Agencies
- Maritime Ports
- Border Transportation Advisory Committee

Private

- Industry Groups / Associations
- Oil / Gas Companies
- Sand / Water / Supplies
- Carriers (rail and truck)
- Freight facility operators
- Shippers and receivers of freight, including non-ES
- Warehouse and distribution centers
- Logistics service providers
- Public resources / services
- Developers

Did we capture the right stakeholders? Who is missing?

Stakeholder Interviews – Activities to Date

The study team visited the Permian Basin April 22-24 and May 7-10 to begin meeting with stakeholders and collecting information on current conditions

Meetings / Interviews held April / May:

Atlas Sand	TxDOT Odessa District	Union Pacific Railroad
Atmos Energy	Bird Electric	C&C Transfer
Cudd Energy Services	Dept. of Public Safety	Ector County
Fasken Oil & Ranch	G&RG Trucking	Martin County
Midland County	Midland Development Corp.	Midland Odessa Transportation Alliance
Mulholland Energy Services	Odessa Development Corp.	Permian Basin Petroleum Association
Permian Regional Planning Commission	Permian Road Safety Coalition	Permian Strategic Partnership
Ryder Logistics	Schlumberger	Shell

Challenges Identified by Stakeholder to Date

Energy sector activity is projected to have sustained growth in the region

Safety is the major transportation concern and much of it has to do with inadequate capacity and design and driver behavior

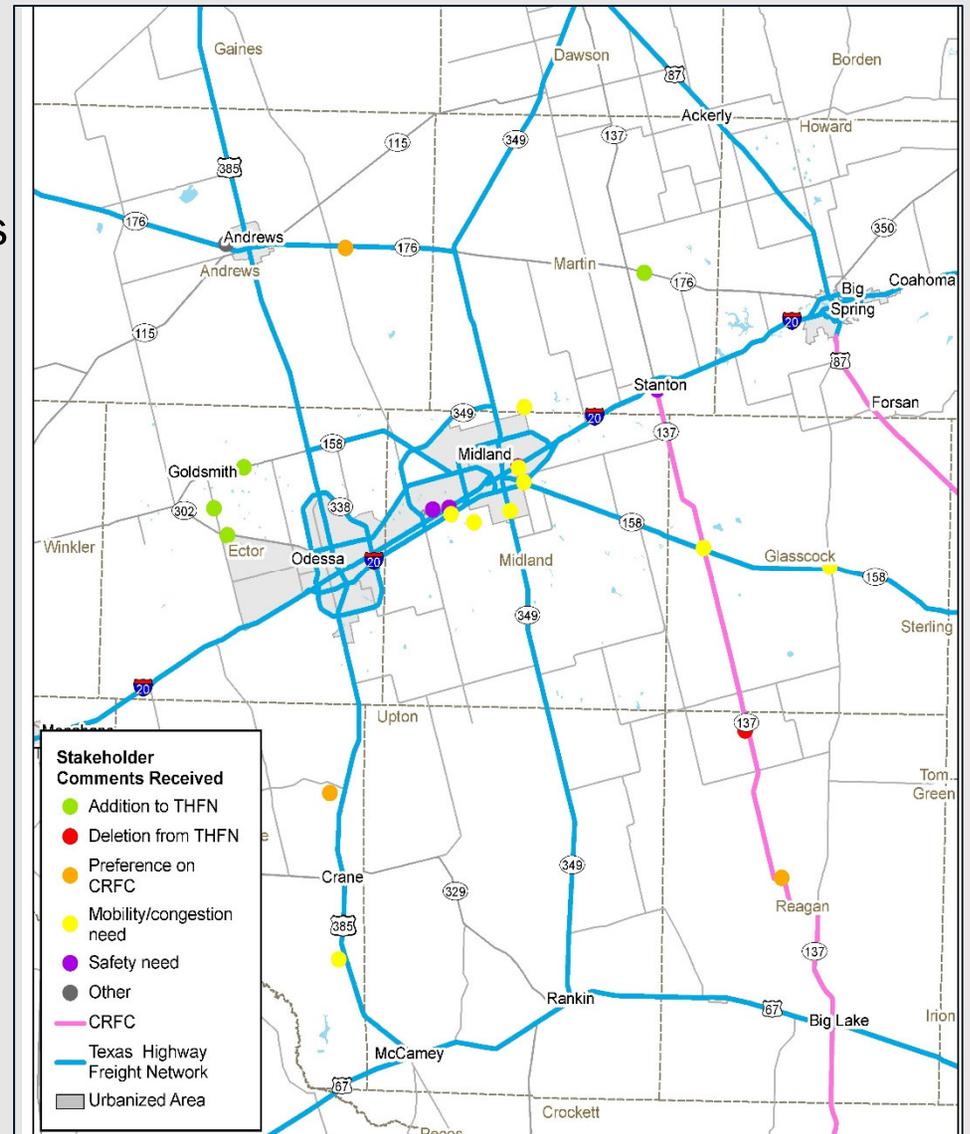
The region is not getting its fair share of state investment

Private sector eager to come to the table to help identify solutions

*Key infrastructure issues include lack of capacity, lack of shoulders and pull offs, 2-lane frontage roads, narrow lanes, lack of truck parking, 4-way stops, incident clearance and at-grade rail crossings
– 302 and Loop 285 most mentioned issues*

Challenges Identified by Stakeholders

- Oil and gas movements are increasing significantly and infrastructure is not keeping pace
- Connectivity to freight generators needs to be improved
 - Many existing roads not designed to carry the size and volume of trucks
 - Newer areas of freight intensive development lack connectivity, leading to circuitous routes
- Lack of north/south connectivity
- Access to I-20 is impeded by lack of connections and/or design of connectors
- High incident of truck involved crashes



Planned Outreach and Engagement Events

Round 1 – July 2019

- Trends, challenges and opportunities
- Multimodal network designation
- Needs and bottlenecks

August to October 2019

- On-line stakeholder survey

Round 2

- Multimodal strategies
- Screening and prioritization process
- Implementation plan

Key Regional Freight Plan Deliverables

Deliverables	Schedule
Stakeholder Outreach and Interviews	April – July 2019 and November 2019- January 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 Memo	January 2020
Freight Analysis Tool	March 2020
Energy Sector/Freight Transportation Investment Plan and Implementation Program	April 2020
Economic Importance and Impact of Energy Sector Memo	May 2020
Final Energy Sector/Freight Transportation Plan and Executive Summary	June 2020





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NETWORKING BREAK





FACILITATED DISCUSSION



Discussion Topics – www.menti.com

1. What are some local and regional near and long term opportunities to:
 - Improve safety and operations?
 - Improve connectivity?
 - Reduce community impacts?
 - Improve mobility and reliability?
 - Enhance economic competitiveness?
2. What role should the public sector play?
Cities, counties, regional, state, federal
3. What role should the private sector play?
Businesses, trade associations
4. What role should community agencies and organizations play?
Planning agencies, economic development, advocacy groups
5. What are critical issues/opportunities that we **MUST NOT MISS** on this Plan?



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NEXT 90 DAYS



Technical Analysis

- Collect data from public and private sources
- Develop framework and data for identifying regional priority freight network and needs assessment
- Develop economic and commodity flow profile

Stakeholder Outreach

- Continue stakeholder interviews
- Develop and deploy online survey (*Fall 2019*)
- Round 1 stakeholder outreach events (*Late July 2019*)
 - Focus groups
 - Workshops

Thank you!

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

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