











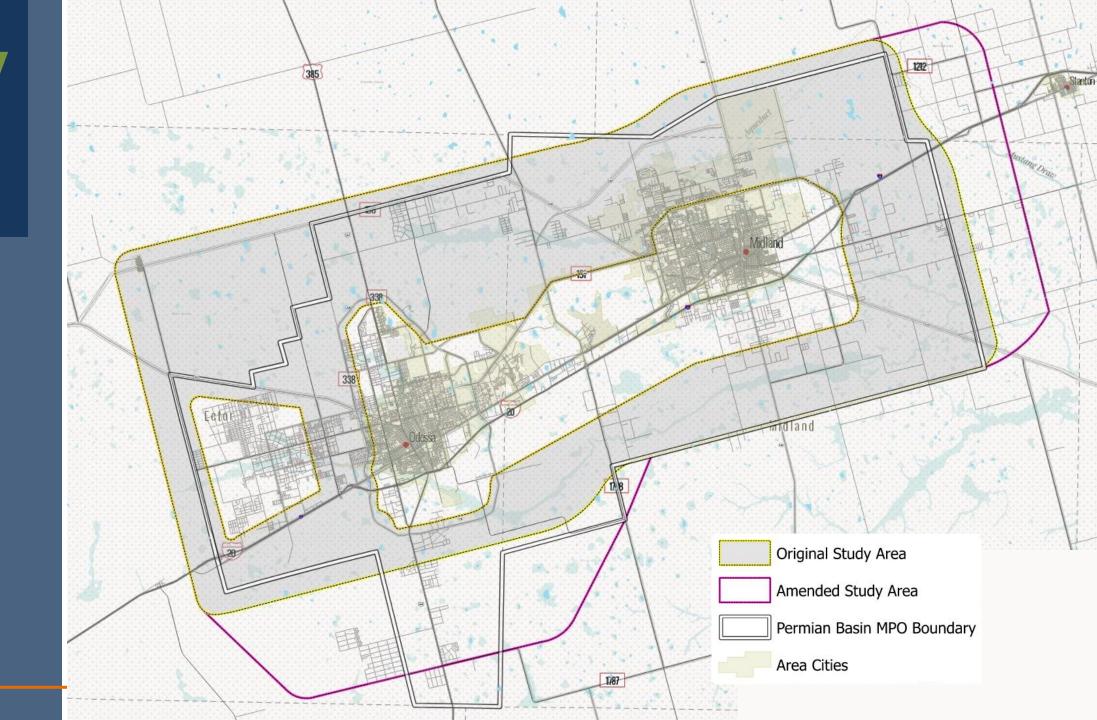
Study Area

and Study Objective



Study Area

and Study Objective





What is a **Planning & Environmental Linkage** (**PEL**) Study?

- A holistic approach to identify transportation alternatives
- Identifies goals for future mobility corridors (or other transportation improvements) based on:
 - Environment
 - Community
 - Economic Development
- Planning study *informs* the environmental review process (NEPA)
- Leverages multiple stakeholders
 - TxDOT, Cities, Counties, PBMPO, Private Entities

PEL Basics

Planning Environmental Linkages

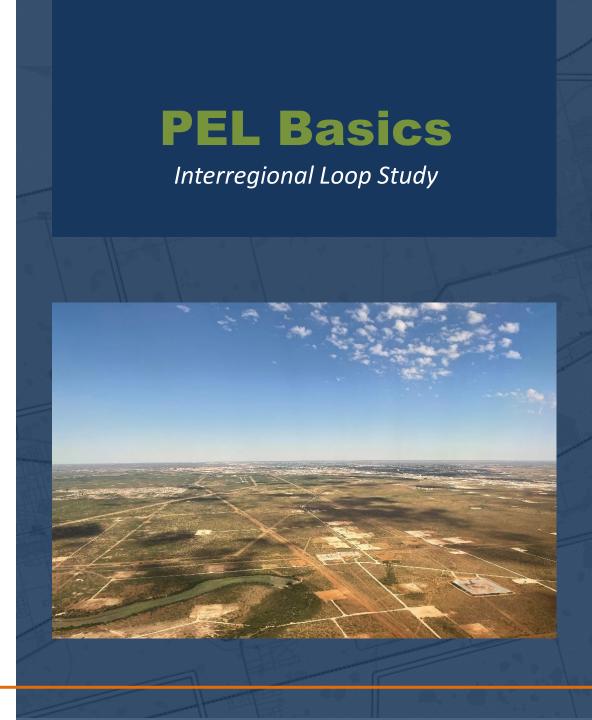


Objectives of Study:

- Region-wide shared vision
- Understanding study area stakeholder and partner capabilities/limitations
- Broad awareness and understanding of study area
- Collaboration tool to assist and facilitate orderly area development

Purpose of *this* PEL:

- Identify potential corridors for future evaluation
- Establish collaborative forum for common vision for an interregional transportation facility
 - Enhance safety and mobility
 - Better movement of goods and services
 - Higher functional classification for more comprehensive service



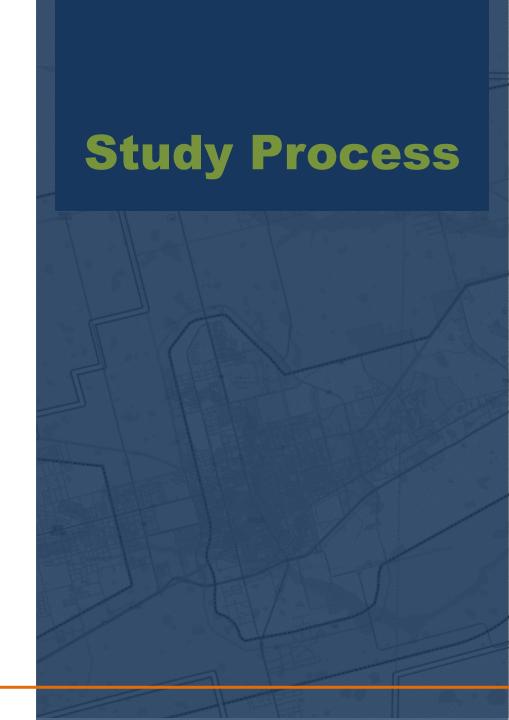
Data Collection

Public & Stakeholder Involvement

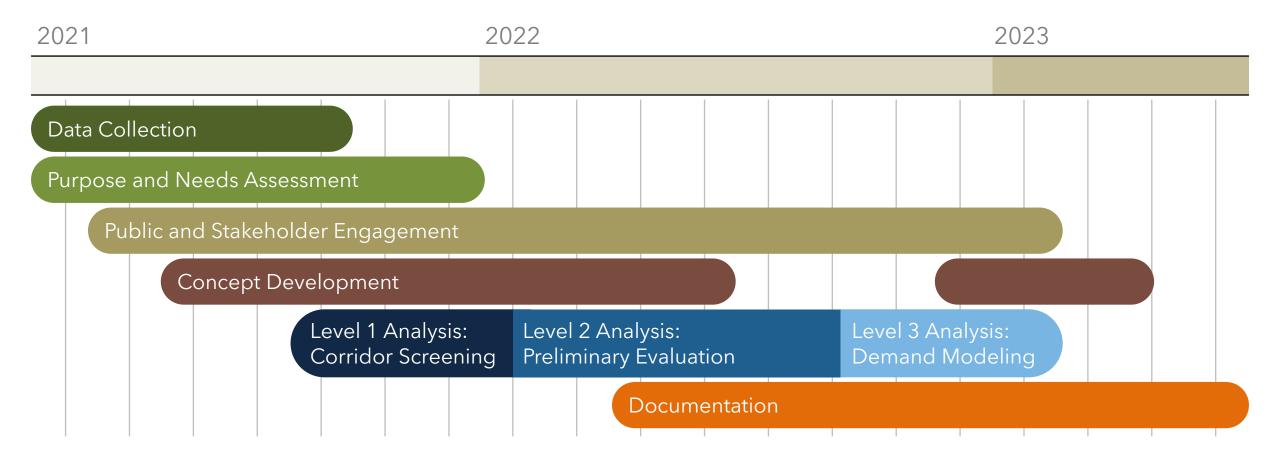
Purpose and Needs Assessment

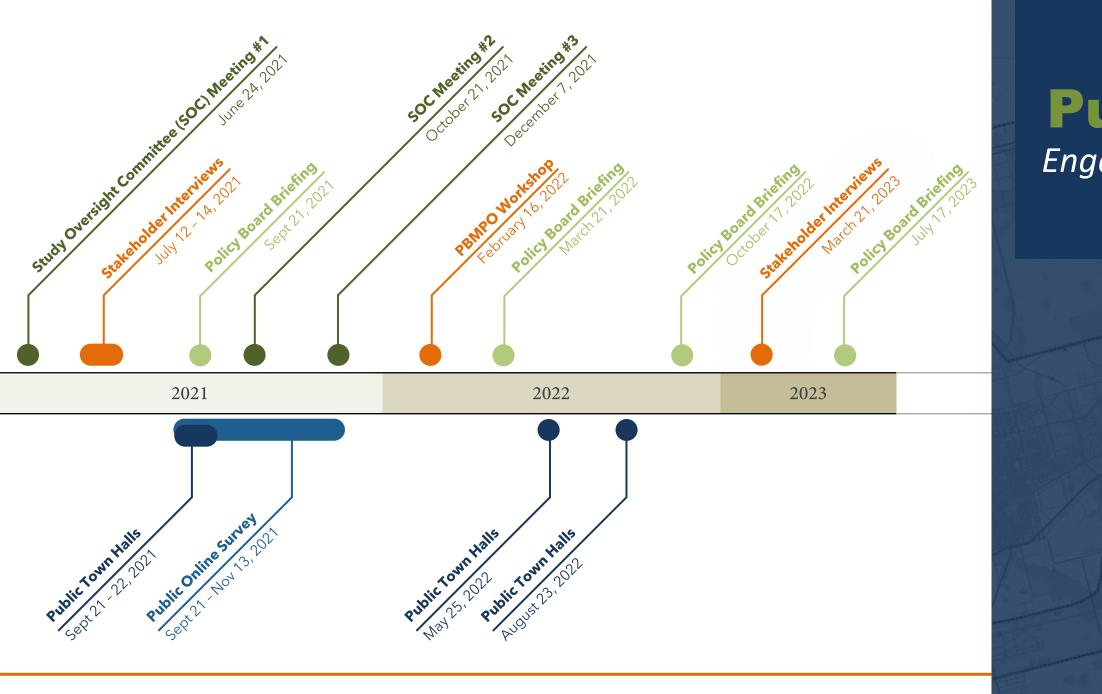
Develop and Screen Potential Alternatives

Project Next Steps



PEL Study Timeline

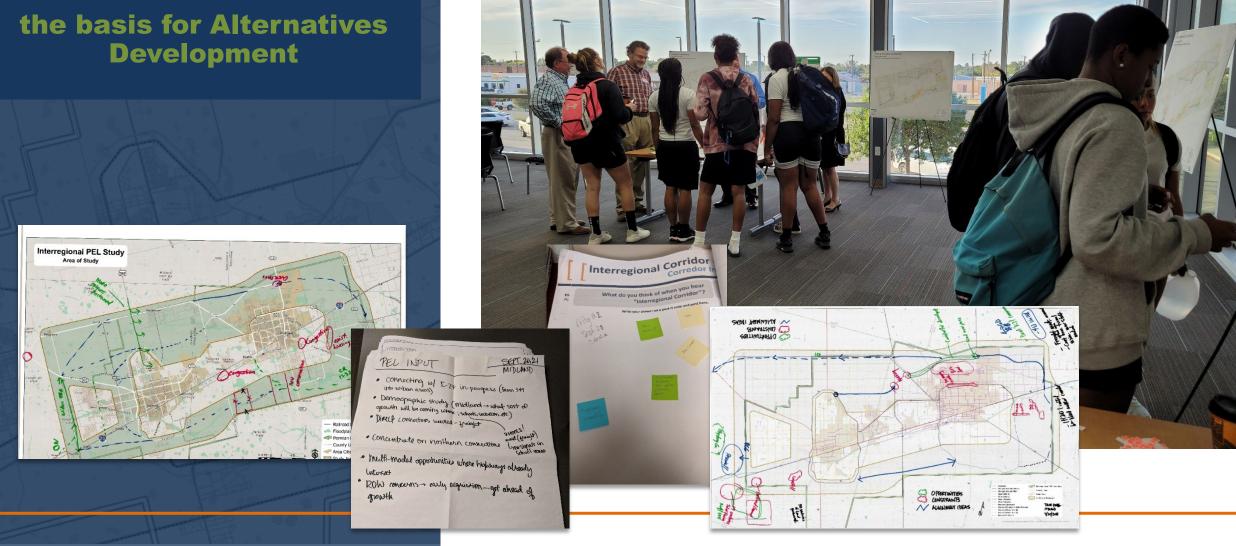




Public

Engagement









Public *Engagement*

What We Heard

Outreach Trends

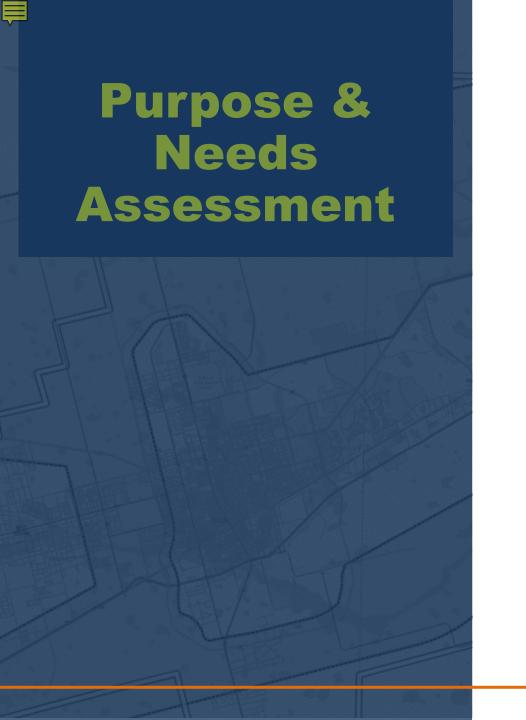
Preference for higher consideration of environmental criteria

Highest Priorities











Connectivity (Nodes)



Safety



Mobility (Links)

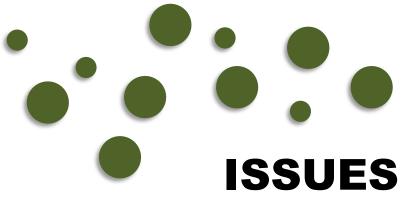


Access and Proximity to Growth



Interregional Benefits





Problems to address in the region



NEEDS

Ideal solutions to address these issues



Ways to work toward meeting the needs

PEL *Process*

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-		

ISSUE	NEED	PURPOSE: The purpose of the PB MPO PEL Study is to develop conceptual transportation alternatives that address the stated needs. An alternative may do this by:
There is a lack of alternative routes for through-movement of goods and travelers.	Connectivity (Nodes)	Providing system relief or additional traveler choice via an alternate route for movement of goods and travelers
Above-average crash rates and fatal crashes.	Safety	Creating safer regional movement
Incomplete interregional networks channel truck traffic and commuter traffic together.	Mobility (Links)	Extending or expanding the existing network
Simultaneous increases in development and energy manufacturing have led to rapid, shifting demand growth on existing roadways, rail lines, and pipelines.	Proximity & Growth (Access)	Providing appropriate level of access to existing or anticipated economic and development activity
Inconsistent interregional consideration for transportation solutions	Interregional Benefits	Providing regional connectivity and access for both Midland, Odessa; and Ector, Midland, and Martin Counties.

PEL Process



Gather Data & Analyze Feedback



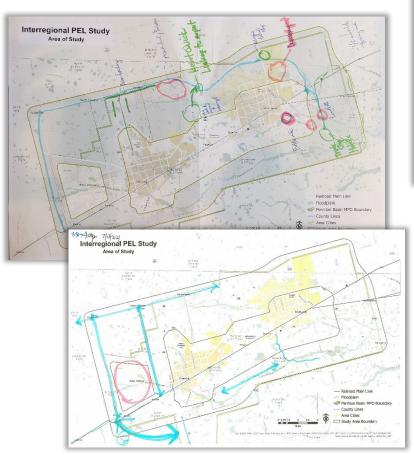
Data Sources

- Transportation Systems, existing and planned
- Environmental Resource Data
 - Archeologic, Demographic, Built
 Environment, Ecosystems, Conservation,
 Hazardous Materials, etc.
- Major utilities, oil, and gas operations
- Census demographics
- TxDOT and local access management policies
- Travel Demand Forecasting
- Land Use Plans and Zoning Maps

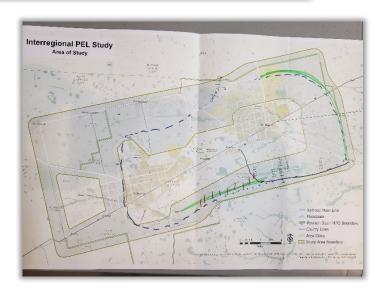


Identification of Potential Corridors

- Stakeholder and Public Input
- Study Area Data (Environmental, Physical Factors)
- "Clean Slate" Approach
- Results: 1200 miles of suggested corridors









Identification of Potential Corridors



Alternatives Screening

"Universe" of Alternatives



Level 1 Screening: **Meets Purpose & Need**

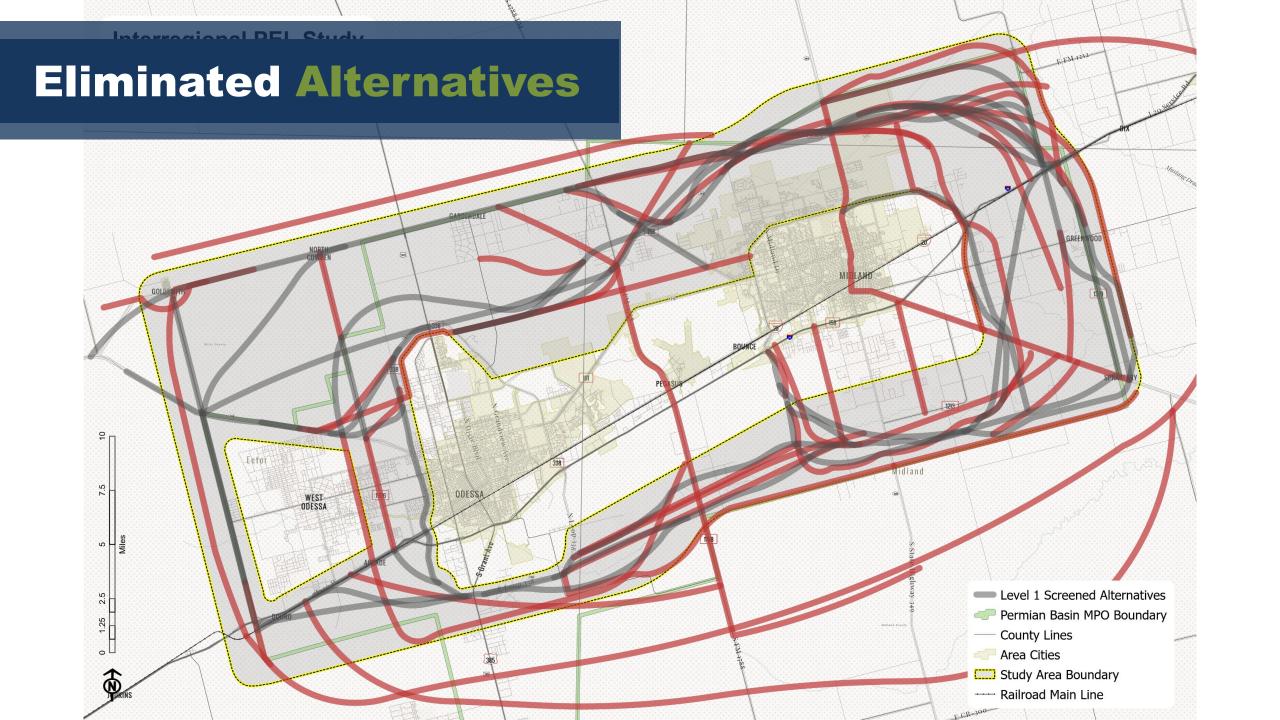


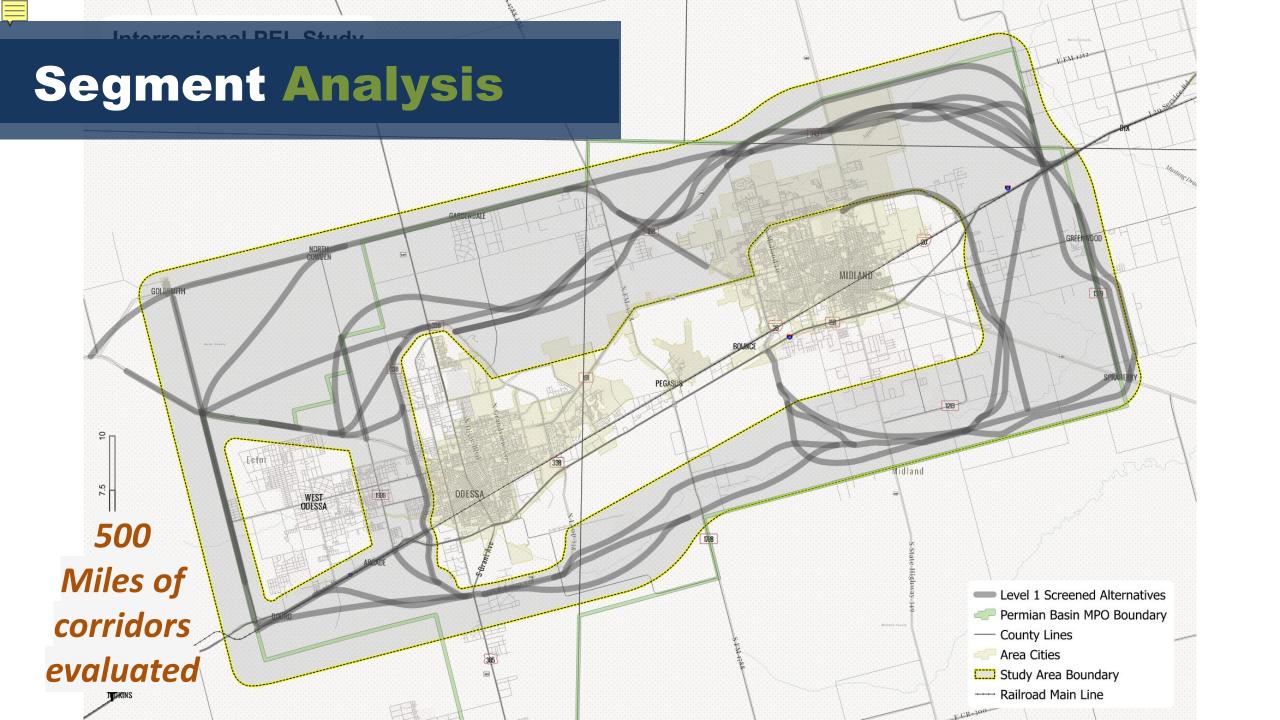
Level 2 Screening: hensive Evaluation **Comprehensive Evaluation**

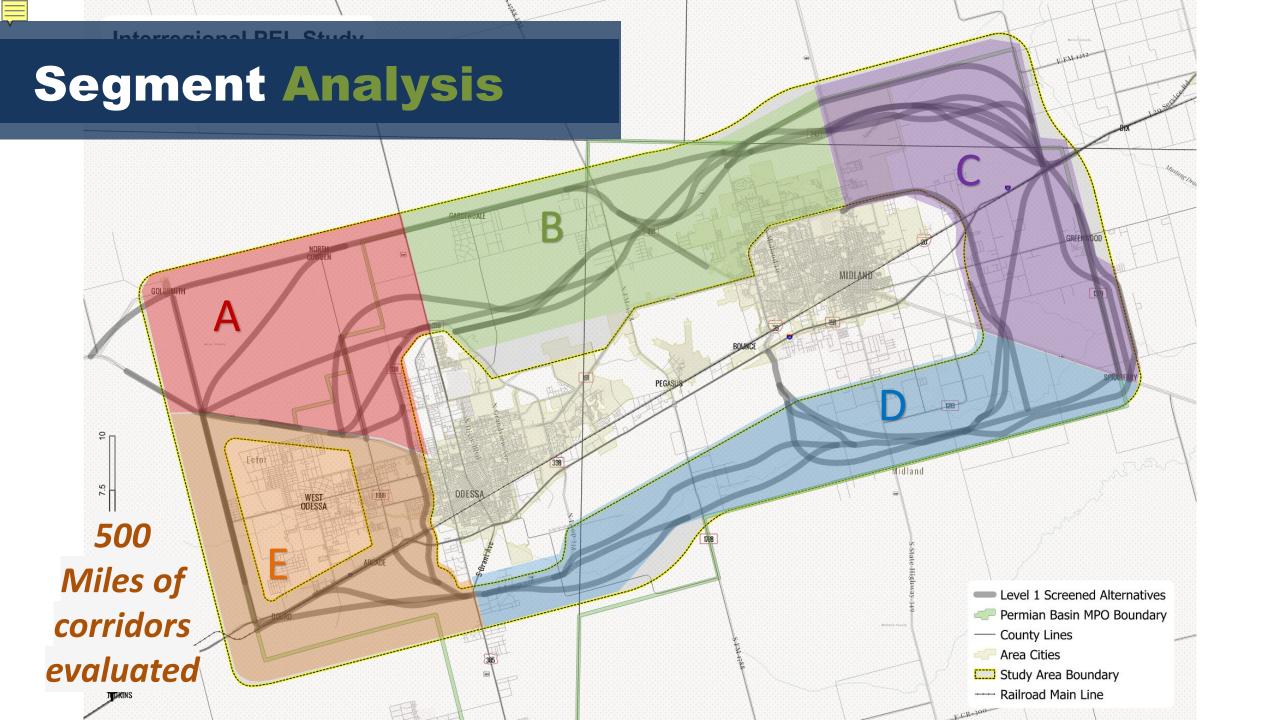


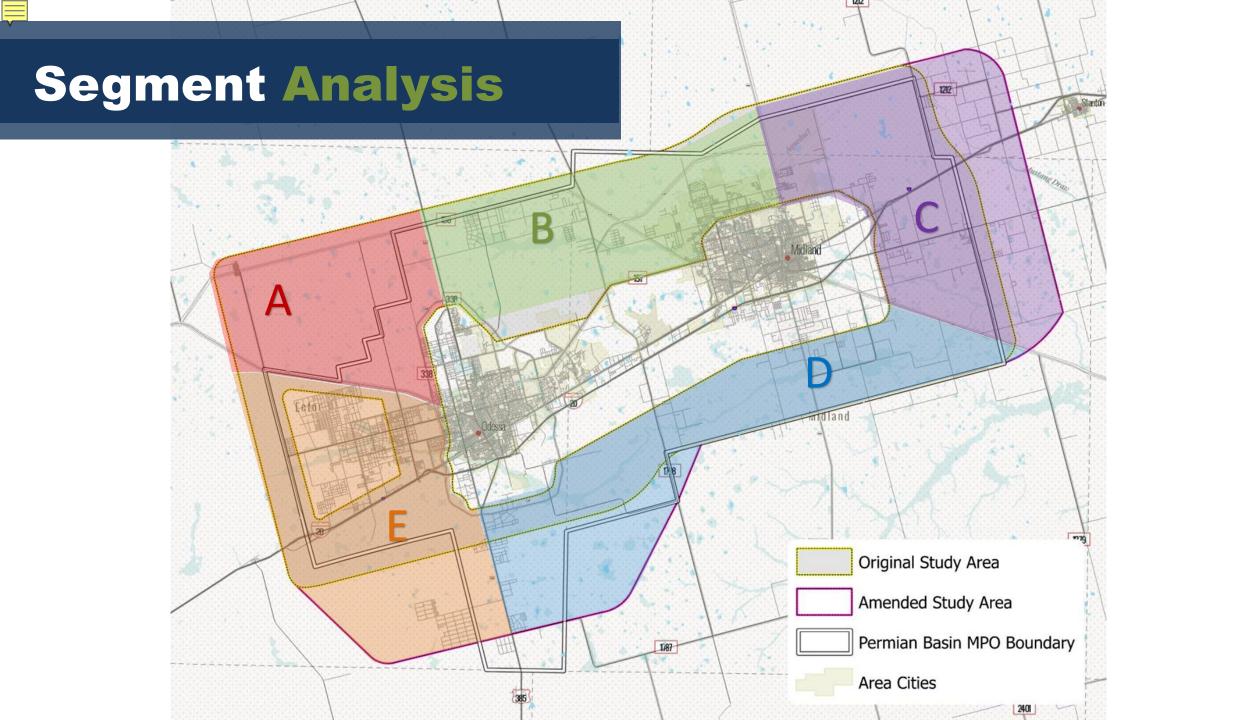
Level 3 Screening: Refine Areas of Opportunity

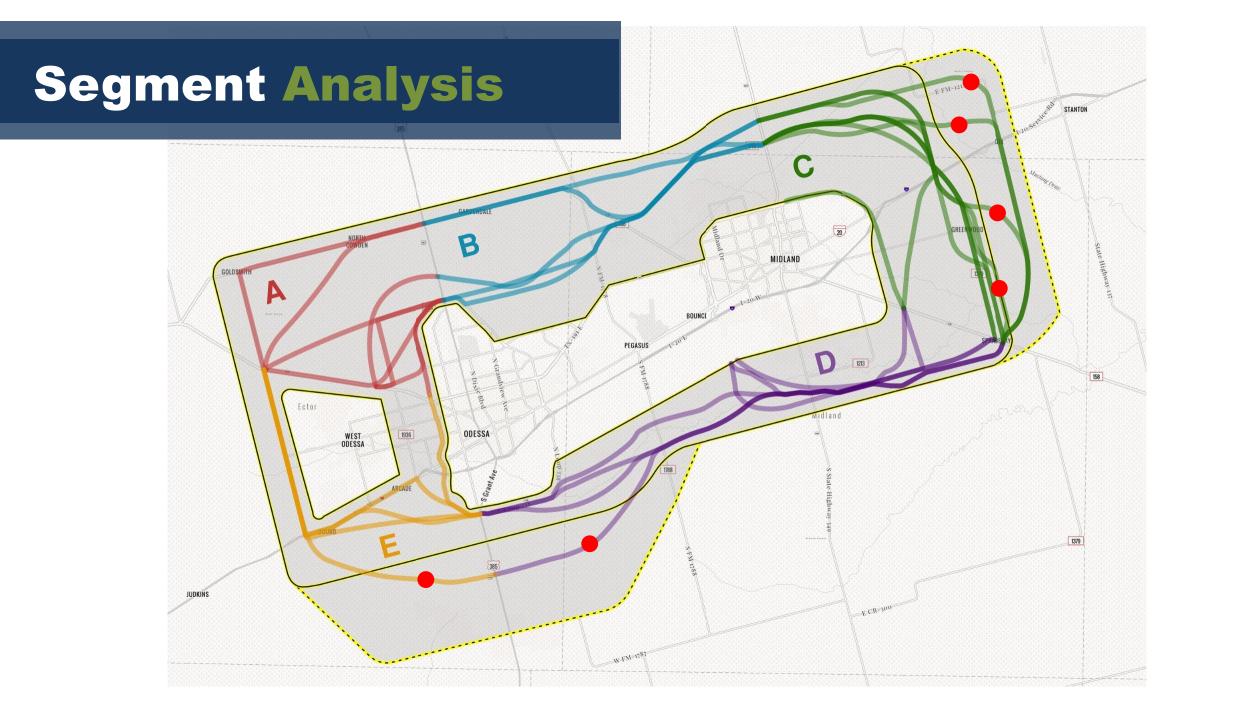




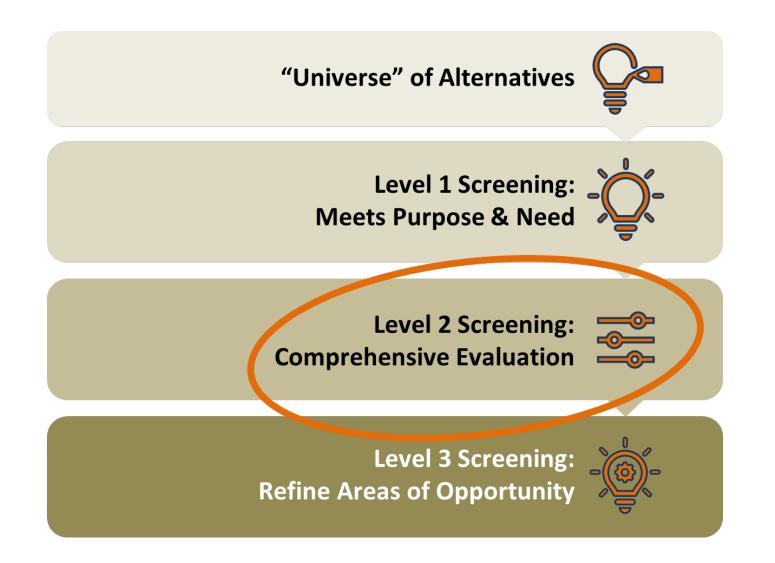








Level 2 Screening Criteria



Level 2 Screening Criteria

Consistency with Regional Plans & Infrastructure

Planned and Existing Systems and Projects

Natural Environmental Impacts

Archeological Sites
Threatened/Endangered Species
Parks and Open Space
Agriculture
Oil and Gas Infrastructure
Etc.

Social Environmental Impacts

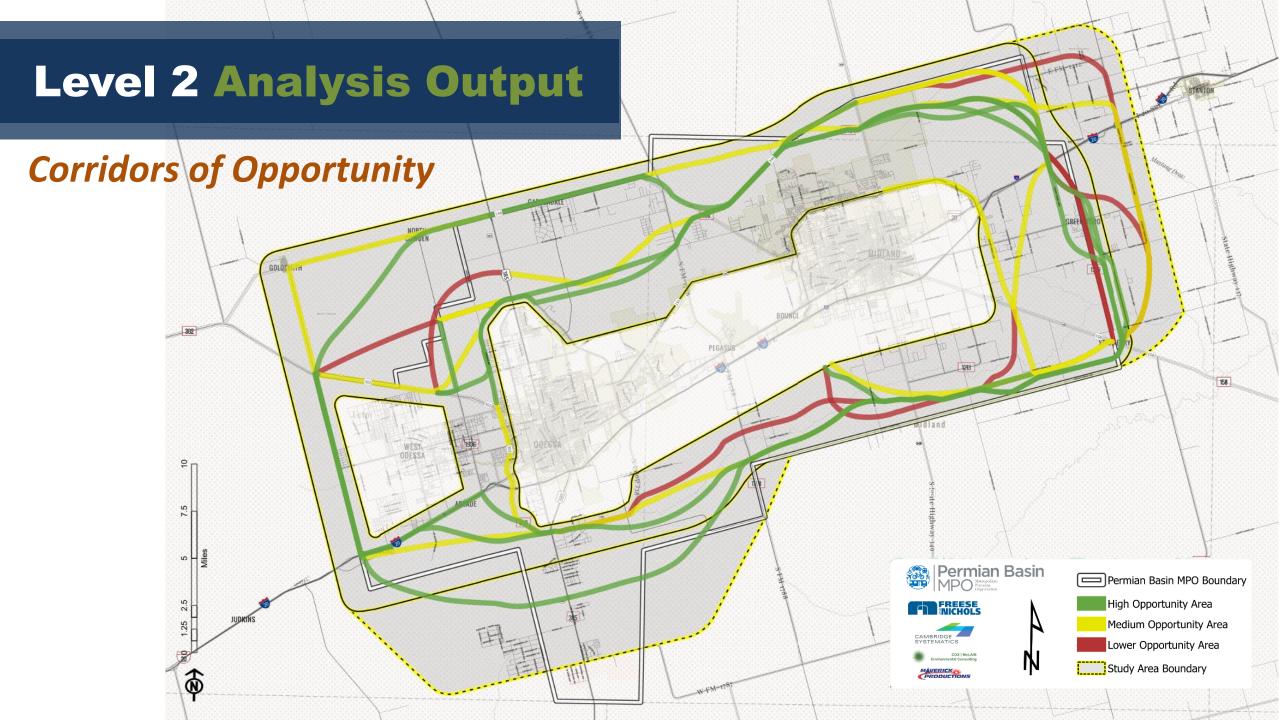
Vulnerable Populations
Community Facilities
Sensitive Receptors

Economic Development

Conducive to future job growth

Land Use Compatibility

											-																			-	-
Criteria	Attribute Name	Resource Type/Measure	A1	A2	А3	A4	A5	A6	A7	A8	В	B2	В3	B4	B5	C	C1	C2	СЗ	C4	C5	C6	D1	D2	D3	D4	D5	D6	E1	E2	E3
2. Consistency with Regional Plans and Infrastructure	2.1 Planned Systems																														
	2.2 Existing Systems																														
3. Modeling											_											_									
		NRHP Property NRHP District TXDOT Historic Properties TXDOT Historic Bridges																													
	4.1 Archeological and Historical Sites	Historical Markers DOE Eligible Points DOE Eligible Polygons Archaeological Site Historic Highway Routes	х	х							х	x					x	x	x	٧	v	x	x	×		х				×	x
	4.2 Oil and Gas	Surface Wells Pipeline Conflicts Storage Tanks	x x x	x x	x x	x x	x x	x x	x x	x x	Х	x x	x x	x x	x x	,	х	x x	x x	X X	X X	x x	×	x x	x x	x x	x x	x x	x x	x x	x x
4. Natural Environmental Impacts	4.3 Wetlands or Major Water Features	NHD Flowline NHD Waterbody NWI	x x x	x x	×	x	x x	x x	x x	,	x	x x x	x x x	x x	x x x	x x	×		x x	x x	x x	x	x x x	x x	x x						
F	4.4 Threatened and Endangered Species/Species of Concern	TXNDD			х	х	х	х	х	х	X	×	x	x	x		х	^	X	x	X	X	x	x	x	x	x	X	x	X	х
	4.5 Parks/Open Space/Floodplain	Cemeteries 100-year Floodplain Park Areas	х	х	х	х	х	х	x	х	×	х	x	х	х)	x	x	x x	x x	х	х	×	x	x	х	х	x	×	х	x
	4.6 Hazardous Site/Landfills	Petroleum Storage Tank Leaking Petroleum Storage Tank Industrial and Hazardous Waste Corrective Action (IHWCA) Superfund Site Landfill	x x x			x x			x x	x x									х	х		X							x x	x x x	х
	4.7 Agricultural Areas	Center Pivot Prime Farm Land/Farmland of Statewide Importance									×	х						x	х	х		х	×								
	5.1 Relocations/Displacements	Population + HHs in 2045											X	X	X	,	Х	х	Х	Х	Х		х	×	x	X	х	X			
	5.2 Area Development	City Limits y/n	х																												
5. Social Environmental Impacts	5.3 Corridor Effect on Community Facilities and Sensitive Receptors	Public Buildings Hospitals Fire Stations Schools									Х	x	X	х	Х		х	х	х	x	х	х							×		
	5.4 Corridor Effect on EJ and Vulnerable Populations	Block Groups w/ Minority Pop <50%	х	x	x	х	х	х	×	х									х	х											
	5.5 Corridor Effect on Income Levels	Low Income Block Groups										x	х)	x	х	х	х	х	x	×	x	x	x	х	x	x	x	x
6. Right of Way, Public Support																															
7.1 Economic Development	Conducive to ED and LU Compatibility	Jobs in 2045																													
	TOTAL (FINAL) - Collaborative Res	ult	1	2	3	4	5	6	7	8	9	3 10	11	12	13	14	30 15	31 35 1	16 32 1	7 33	29 34	18	19 4	20	21	22	23 47	24	25	26	27



Level 3 Screening





Level 1 Screening: Meets Purpose & Need



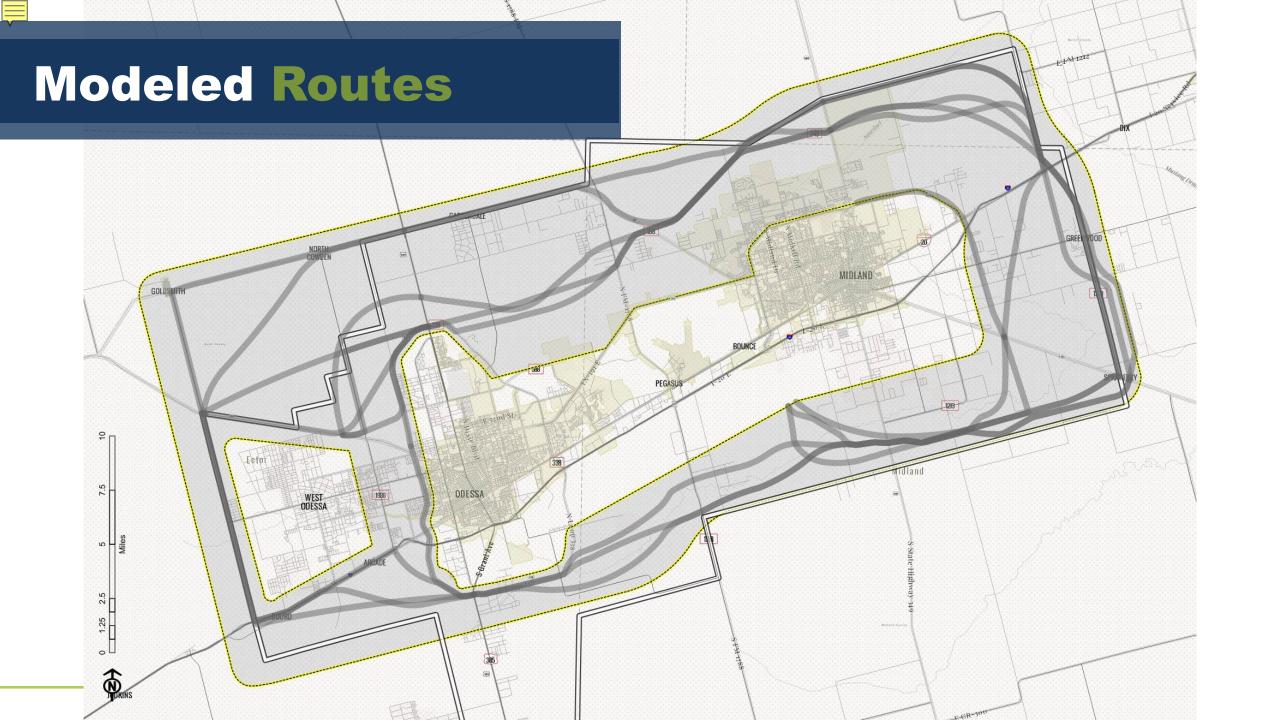
Level 2 Screening: Comprehensive Evaluation

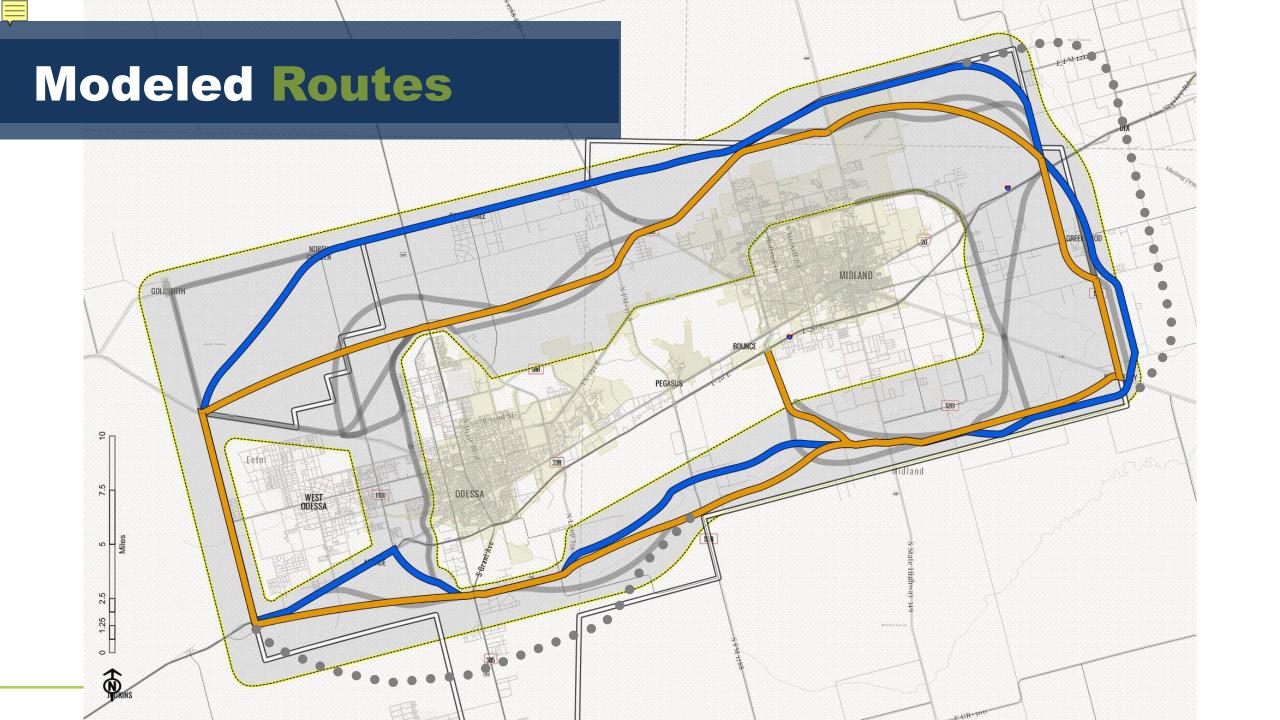


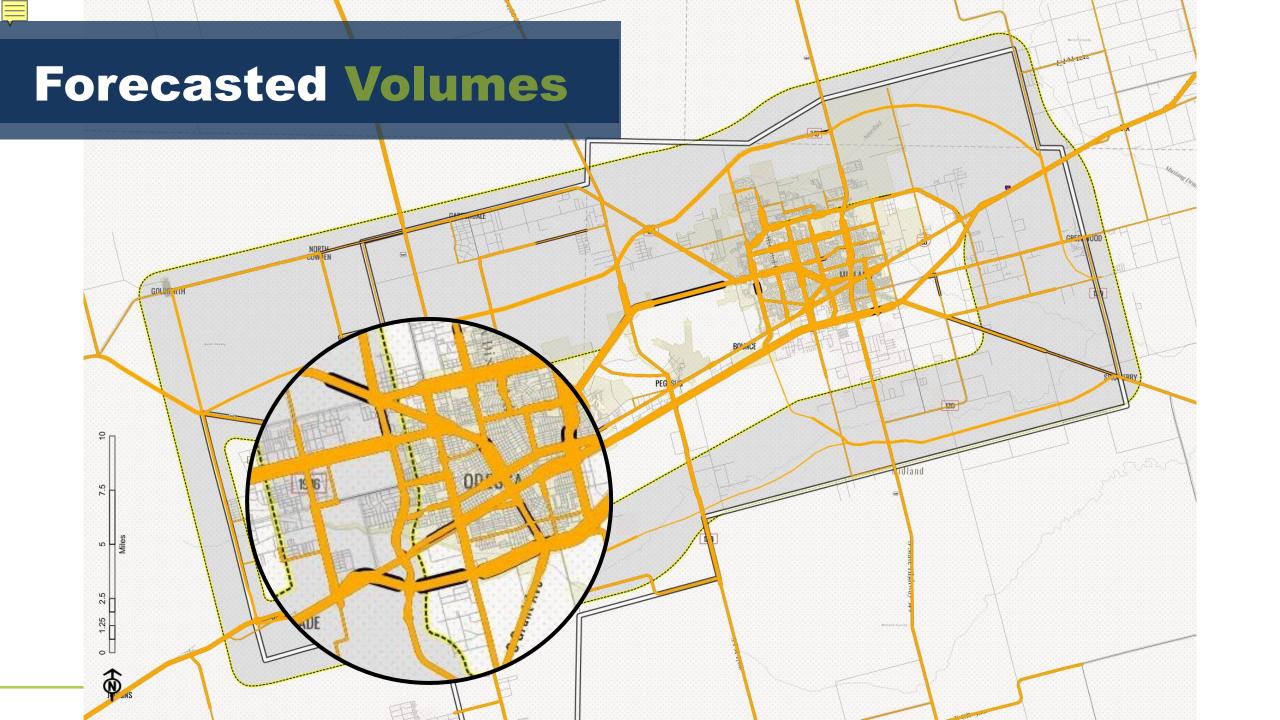


Level 3 Screening: Refine Areas of Opportunity





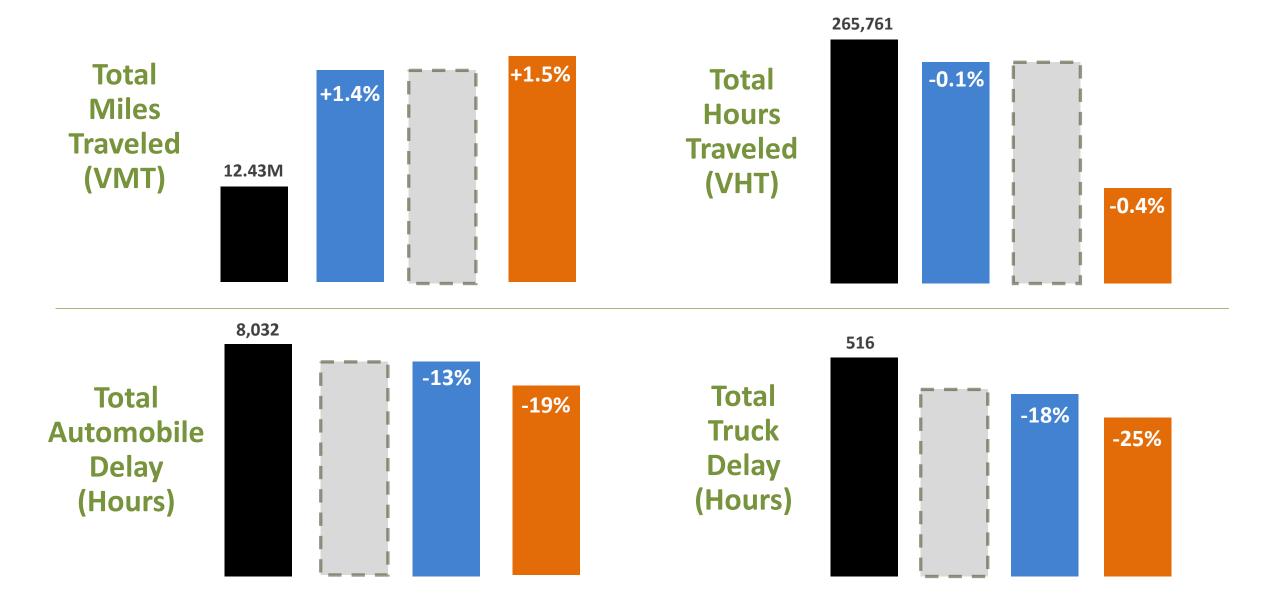






Performance Metrics





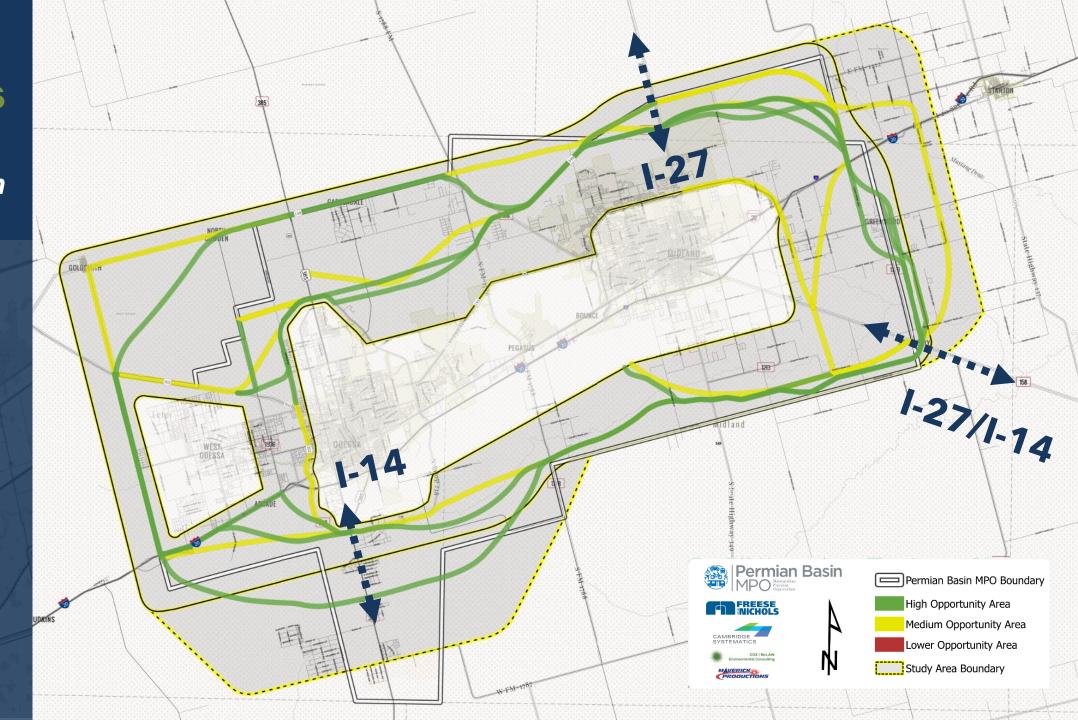


What does this mean for the Interregional Loop?

- Modeled Alternatives
 - Shift in projected truck traffic
 - Reduction in congestion
 - Resiliency benefits
 - Continued growth of urbanizing areas
- PEL Considerations
 - Modeling is only one component of study
 - People- and Environment-Centered Analyses
 - Ultimate Test relies on the Needs and Purpose
 - Connectivity, Safety, Mobility, Proximity & Growth, Interregional Benefits

Viable Options

for future consideration



Next steps

Immediate

Near term (~2 years)

Medium-term

Long-term

- Interregional Loop
 - PEL Documentation
 - PBMPO study acceptance; resolution seeking further study
- Agency-led detailed environmental evaluation (TxDOT)
 - Compare no-build + build alternatives
 - Defined corridors of least impact
 - Field surveys; social, physical, & environmental;
 cumulative & indirect effects
- Formal Environmental Documentation/Public Hearing Process
- Corridor Design and Implementation

Final Results

Corridors of Opportunity

