



SH 225 and I-610 East Planning and Environmental Linkages (PEL) Study

Citizens Advisory Council to La Porte Industry
First United Methodist Church
August 1, 2023



What is the Purpose of Tonight's Presentation?



> Introduce Study and Review Concepts
The SH 225 and I-610 East Planning and Environmental Linkages (PEL) Study

> Discuss and Update
The progress of the PEL Study

> Review Options
For Staying Involved with the PEL Study

> Listen
To Your Questions, Ideas or Concerns and Provide Answers When Needed





As provided for by 23 CFR 450.212, 23 CFR 450.318, and Appendix A to 23 CFR Part 450, the results or decisions of this Planning and Environmental Linkages Study may be incorporated into or used as part of the review of this project under the National Environmental Policy Act, which will be carried-out by TxDOT pursuant to 23 USC 327 and a Memorandum of Understanding dated December 9, 2019, and executed by FHWA and TxDOT.

PEL Study Location

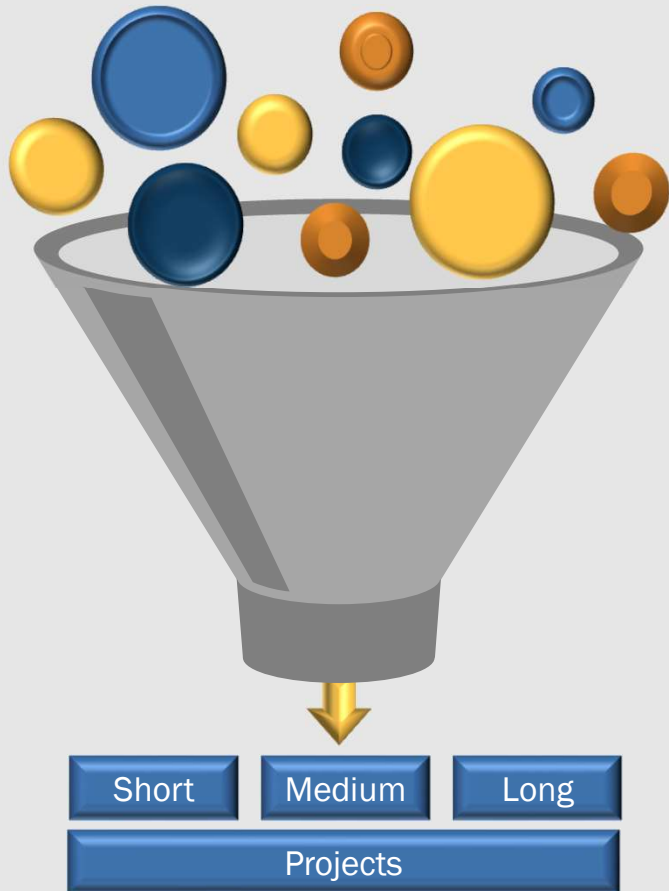


PEL Study Limits



PEL Study Area

What is a Planning and Environmental Linkages (PEL) Study?



Purpose

Provides a high-level approach to transportation decision making

Benefits

Promotes efficiency and cost-effective solutions to fast-track transportation improvements

Participants

Stakeholders, agencies, and the public

Learn More

Watch the “What is a PEL Study Video” on the study webpage

PEL Study Public and Stakeholder Engagement Activities



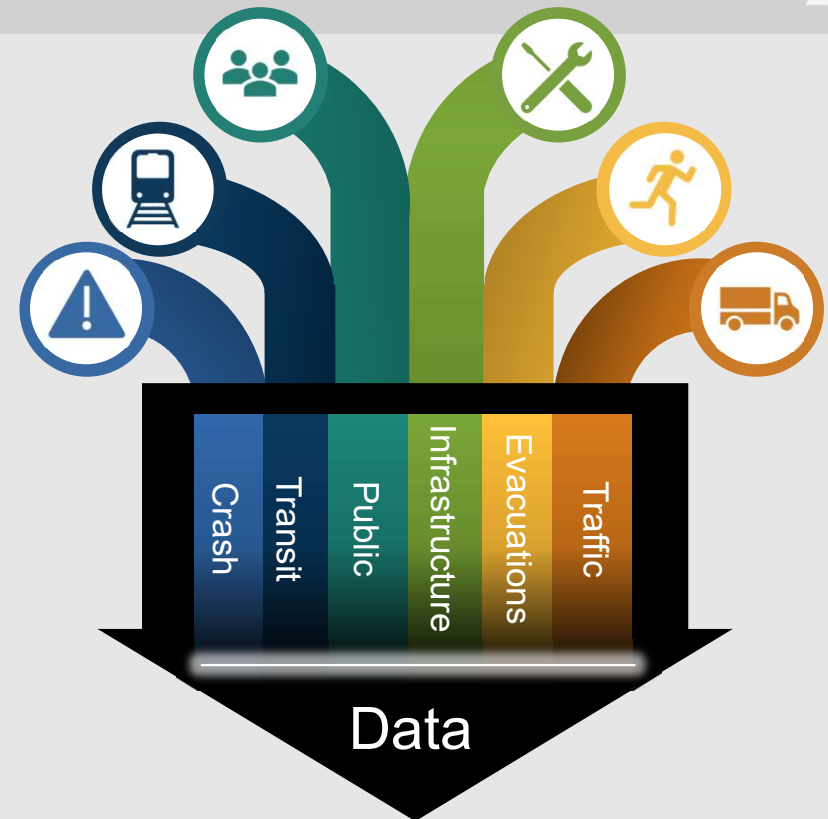
Purpose and Need Development



The purpose and need statement provides a basis for potential future projects to be carried forward through the National Environmental Policy Act (NEPA) process.

Existing conditions data along with input received from the public will be used to develop the Purpose and Need for the Study.

The needs identified from the data/input will be used to screen the alternatives throughout each stage of the study.



Purpose and Need Statement

What Needs Were Identified?



Need for Enhanced Safety



Need for Multimodal Movement of People



Need for Efficient Movement of Freight and Maritime Cargo



Need for Enhanced Emergency Evacuation



Need for Upgraded Aging Infrastructure

Why are they Needed?



By 2045 the Study Area will experience

8.5M Port Houston Total Truck Trips per Year

52% Population Increase

5% Employment Increase

**Houston-Galveston Area Council (H-GAC) Travel Demand Model*

Safety

15% Truck Crashes **7,958** Total Crashes **215** Severe and Fatal Crashes

Segments Above Statewide Crash Rate
SH 225: Allen Genoa to Beltway 8
I-610E: Telephone Rd to SH 225

**TxDOT CRIS Database 2017-2021*

Multimodal Movement of People

Insufficient



Transit



Bicycle & Pedestrian Facilities

**METRO & Harris County Transit Ridership Data
 City of Houston Bike Plan & Google Earth

Freight and Maritime Cargo

100 Most Congested Truck Roadways in Texas

I-610E 55th
 SH 225 80th

**Texas A&M Transportation Institute*

I-610E Bridge not **high** enough

Washburn Tunnel not **deep** enough

**Port Houston*

Emergency Evacuation

Multiple recent man-made incidents

- Refinery explosions
- Gas leaks

Severe weather events

- Hurricanes
- Tornadoes
- Flooding

Aging Infrastructure



**TxDOT PMIS & Brinsap Report*

Roadways built between 20-60 years ago

SH 225 was built across 40 years

SH 225 mainlanes are in poor distress and I-610 frontage roads are in poor condition.

Half of the bridges do not meet today's vertical clearance requirements

**Indicates source*

SH 225 and I-610 East PEL Study Progress



Early 2023

Late 2023

Late 2023

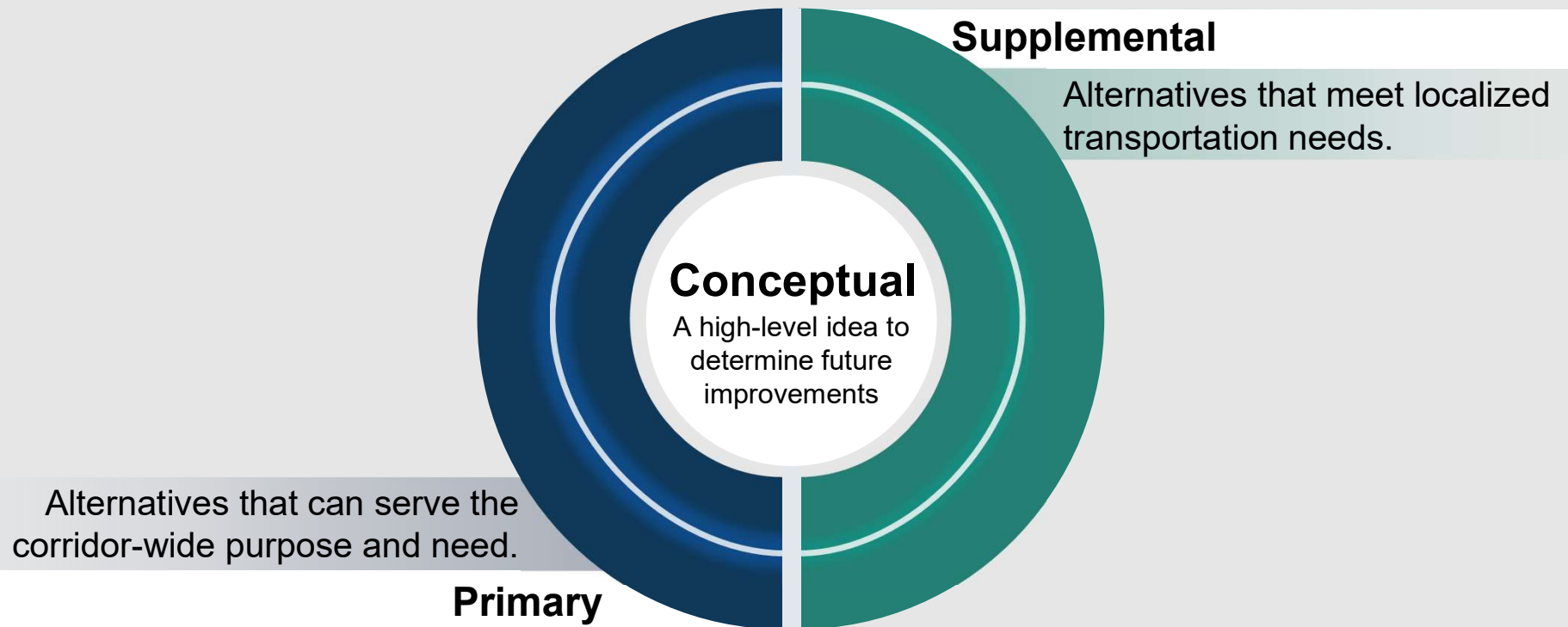
Future



Public Meeting #2
October 2023

Ongoing Public Involvement

What is a Conceptual Alternative?



Supplemental Alternative



Can be combined with any Primary Alternative

Connectivity

Improve Existing
Alternative Routes

New Alternative Routes

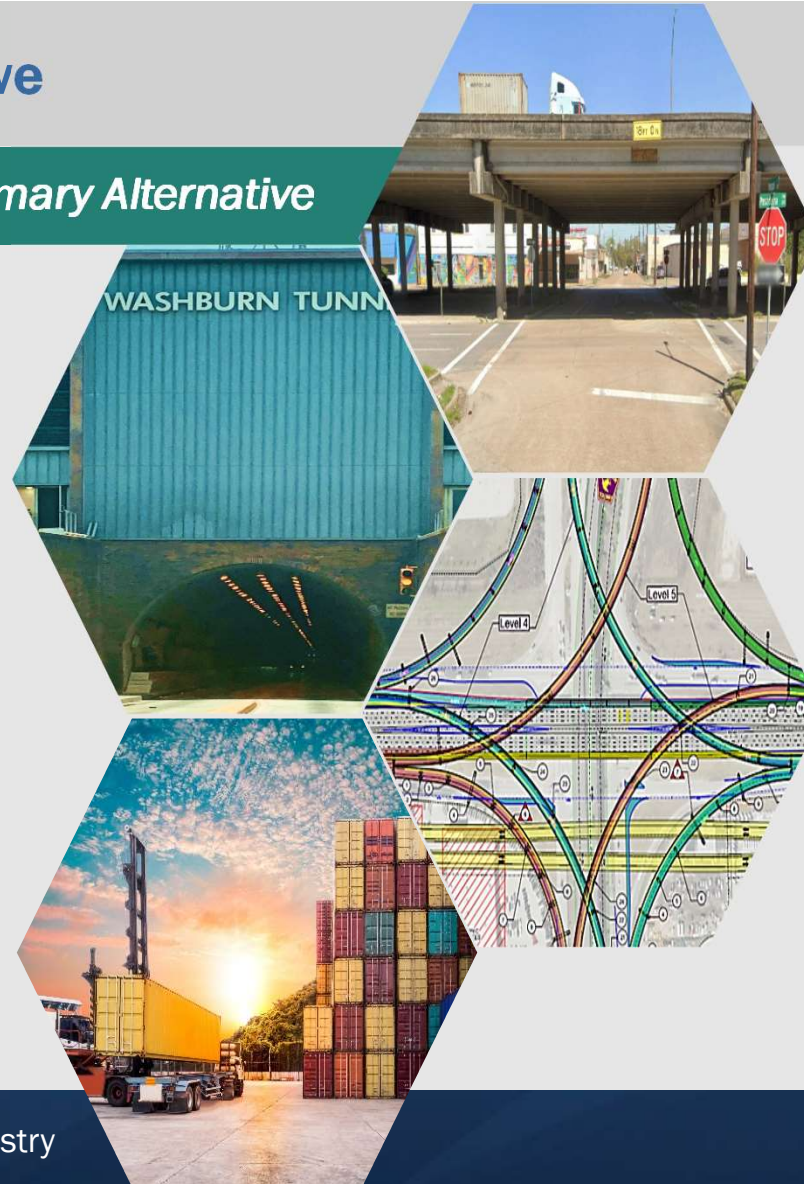
New Road Extension

Multimodal

Movement of Cargo
Through Ship Channel

Bike & Pedestrian

Transit



Frontage Roads

Connect Discontinuous
Frontage Roads

Improve Frontages Roads

Improve Intersections

Mainlanes

Improve Ramp
Configurations

Improve Interchanges

Incorporate Technology

Primary Alternative 0



No-Build

Frontage Roads



General Use Lanes



Frontage Roads



Meets 0 of the 5 needs



Safety



Multimodal



Freight/Cargo



Evacuation



Infrastructure

Pros

- No additional ROW

Cons

- No improvements to
 - Safety
 - Projected congestion
 - Projected increase in movement of people, goods, and cargo
 - Emergency evacuation
 - Aging infrastructure

Primary Alternative 1



Reconstruct to Current Standards



* At a minimum alternatives 1-7 would reconstruct to current standards

Meets 3 of the 5 needs



Safety



Multimodal



Freight/Cargo



Evacuation



Infrastructure

Pros

- Replaces aging infrastructure
- Provides wider shoulders to improve safety and emergency evacuation

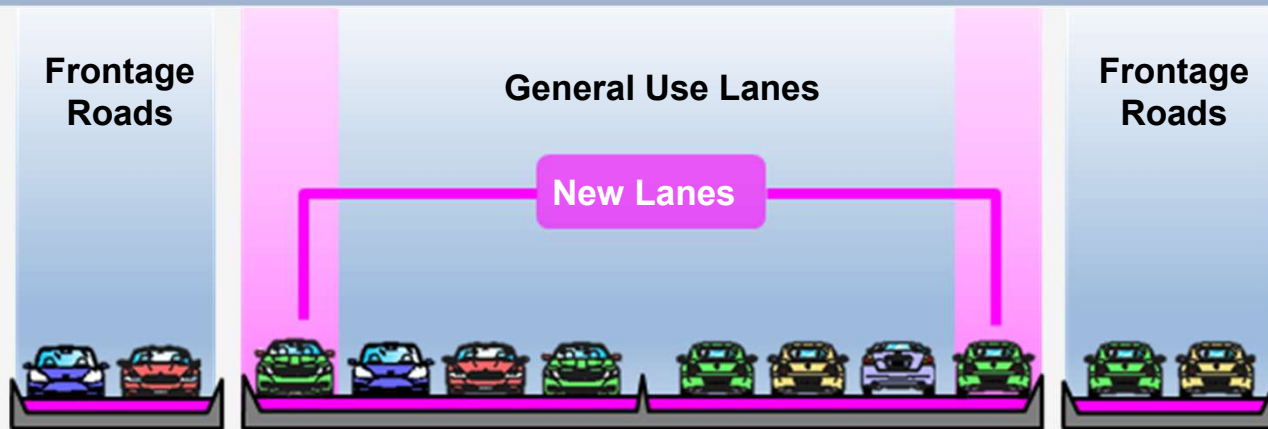
Cons

- May require minimal additional ROW
- Would not separate freight trucks
- Would not provide opportunities for express transit
- No improvements for:
 - Projected congestion
 - Projected increases in movement of people, goods, and cargo

Primary Alternative 2



Add General Use Lanes



Meets 3 of the 5 needs



Safety



Multimodal



Freight/Cargo



Evacuation



Infrastructure

Pros

- Replaces aging infrastructure
- Provides wider shoulders to improve safety and emergency evacuation
- Increases capacity

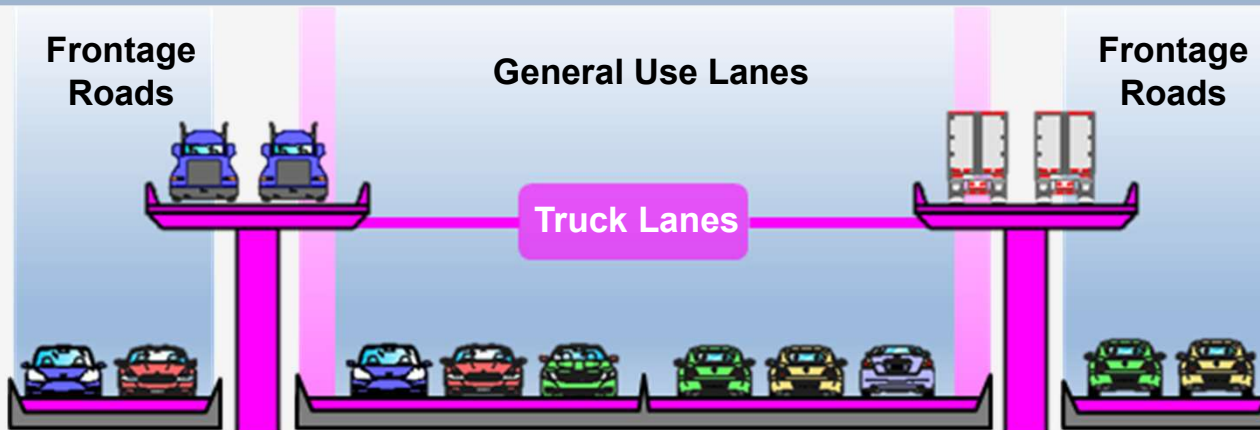
Cons

- May require additional ROW
- Would not provide opportunities for express transit
- Would not separate freight trucks

Primary Alternative 3



Add Elevated Freight Truck Lanes



**Elevated truck lanes could be in the center or between the frontage road and general use lanes.*

Meets 4 of the 5 needs



Safety



Multimodal



Freight/Cargo



Evacuation



Infrastructure

Pros

- Replaces aging infrastructure
- Provides wider shoulders to improve safety and emergency evacuation
- Reduces traffic congestion
- Separates freight trucks from cars
- Supports express travel for freight trucks going longer distances

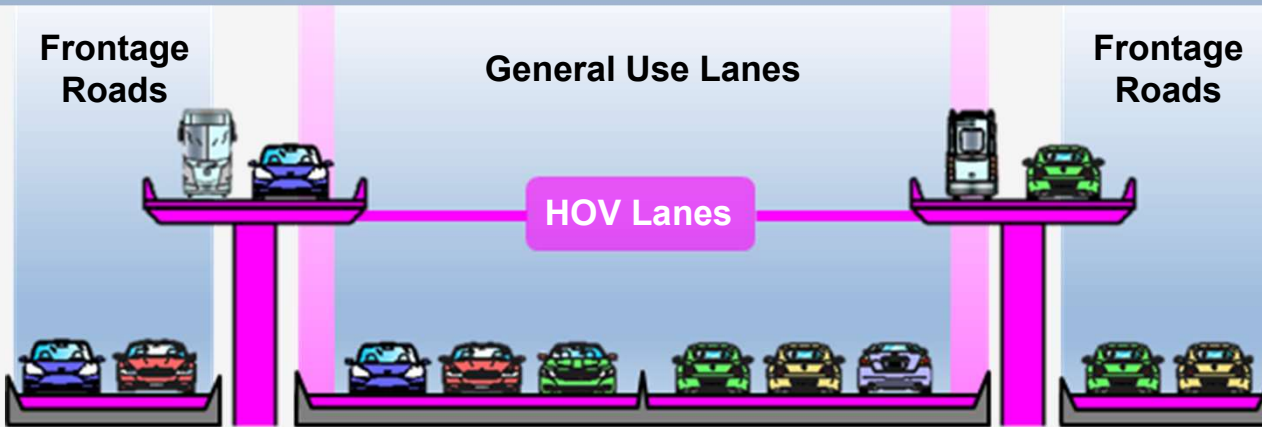
Cons

- May require some additional ROW
- Would not provide opportunities for express transit

Primary Alternative 4



Add Elevated HOV Lanes



**Elevated HOV lanes could be in the center or between the frontage road and general use lanes.*

Meets 4 of the 5 needs



Safety



Multimodal



Freight/Cargo



Evacuation



Infrastructure

Pros

- Opportunities for express transit service
- Replaces aging infrastructure
- Provides wider shoulders to improve safety and emergency evacuation
- Reduces traffic congestion

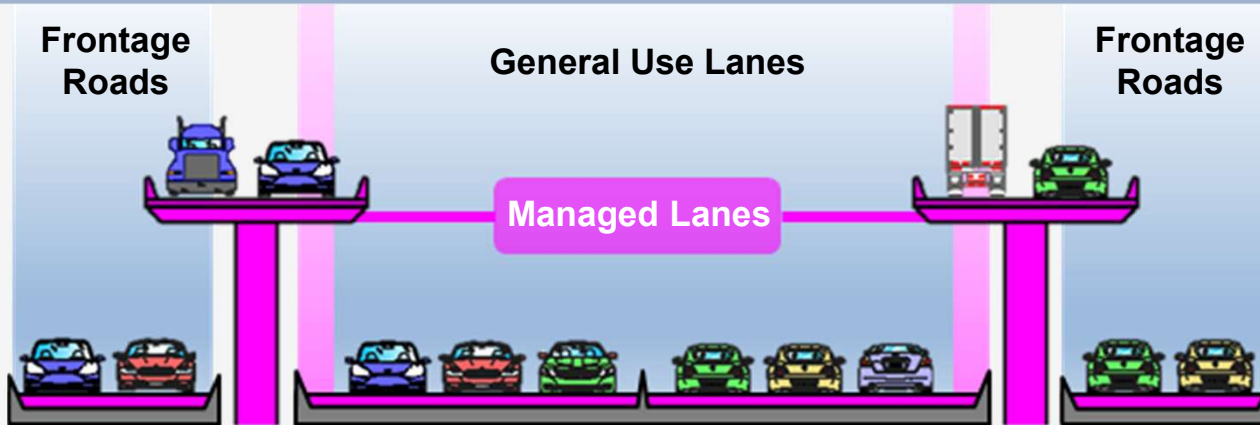
Cons

- May require some additional ROW
- Would not separate freight trucks

Primary Alternative 5



Add Elevated Managed Lanes



**Elevated managed lanes could be in the center or between the frontage road and general use lanes.*

Meets 5 of the 5 needs



Safety



Multimodal



Freight/Cargo



Evacuation



Infrastructure

Pros

- Opportunities for express transit service
- Flexibility to separate travel modes by time of day
- Replaces aging infrastructure
- Provides wider shoulders to improve safety and emergency evacuation
- Reduces traffic congestion

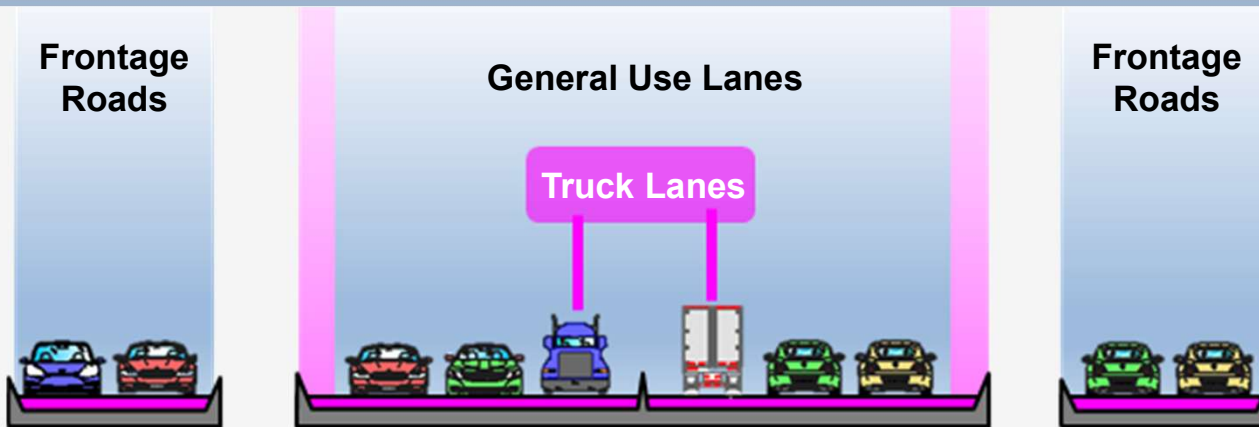
Cons

- May require some additional ROW

Primary Alternative 6



Convert General Use Lane to Truck Lane



**Trucks lanes could replace one of the inside or outside general use lanes*

Meets 3 of the 5 needs



Safety



Multimodal



Freight/Cargo



Evacuation



Infrastructure

Pros

- Replaces aging infrastructure
- Provides wider shoulders to improve safety and emergency evacuation
- Provides a freight truck lane

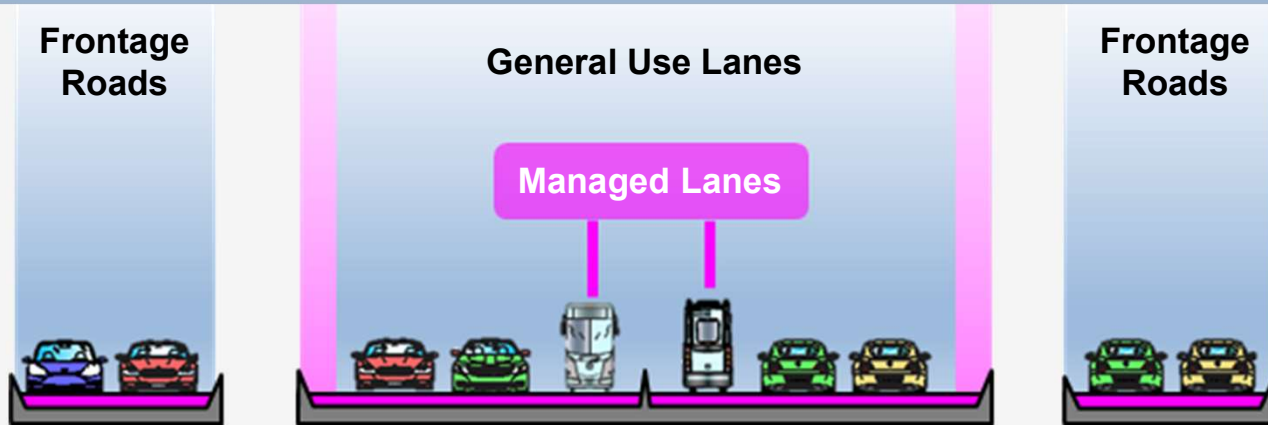
Cons

- May require minimal additional ROW
- Reduces capacity in general use lanes
- Would not have separate structure for freight truck lanes

Primary Alternative 7



Convert General Purpose Lane to Managed Lane



**Managed lanes could replace one of the inside or outside general use lanes*

Meets 3 of the 5 needs

Safety Multimodal Freight/Cargo Evacuation Infrastructure

Pros






- Opportunities for express transit service
- Flexibility to assign specific travel modes by time of day for the managed lanes
- Replaces aging infrastructure
- Provides wider shoulders to improve safety and emergency evacuation

Cons

- May require minimal additional ROW
- Reduces capacity in general use lanes
- Would not have separate structure for freight truck lanes

Primary Alternative Summary



Alternatives	0	1	2	3	4	5	6	7
 Safety	X	✓	✓	✓	✓	✓	✓	✓
 Multimodal	X	X	X	X	✓	✓	X	✓
 Freight/Cargo	X	X	X	✓	X	✓	✓	X
 Evacuation	X	✓	✓	✓	✓	✓	X	X
 Infrastructure	X	✓	✓	✓	✓	✓	✓	✓

Needs

Please Participate in the Poll!




1. Scan the **QR Code** to the left using your smart phone camera
2. The survey link will appear on your phone screen
3. Answer poll

Thank You!

How to Stay Engaged




Mailing List




Study Materials



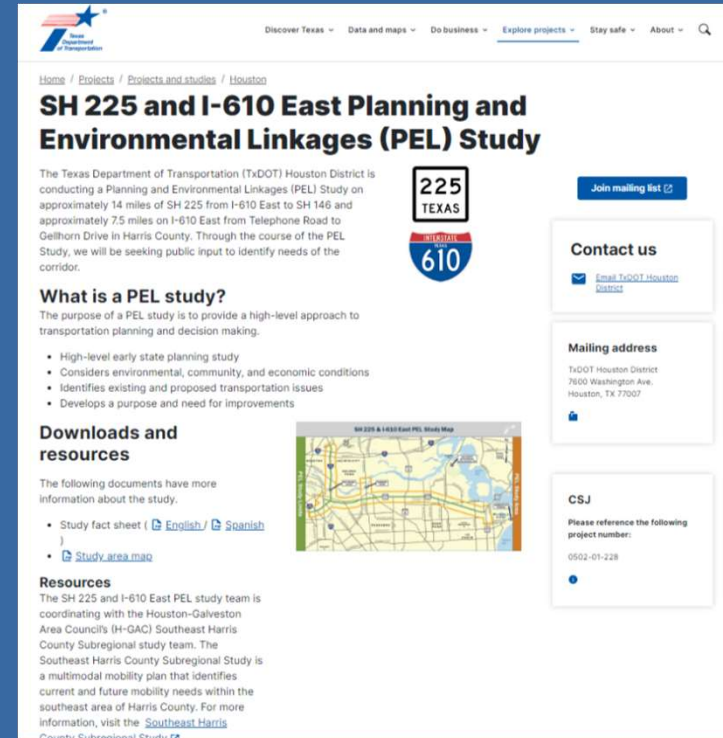
Meeting Summaries



Fact Sheet



What is a PEL Video



The screenshot shows the Texas Department of Transportation (TxDOT) website page for the SH 225 and I-610 East Planning and Environmental Linkages (PEL) Study. The page includes a navigation menu, a breadcrumb trail, and a main heading. The content area provides an overview of the study, a 'What is a PEL study?' section, a 'Downloads and resources' section with links to a fact sheet and study area map, and a 'Resources' section. A sidebar on the right contains a 'Join mailing list' button, 'Contact us' information, a 'Mailing address', and a 'CSJ' section with a project number.

<https://www.txdot.gov/projects/projects-studies/houston/sh225-i610-east-study.html>

Need More Information?



SH 225 & I-610 East PEL Study Page

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Question and Answer Session



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PEL Study

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Purpose and Need

?

Alternatives

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Stay Engaged