

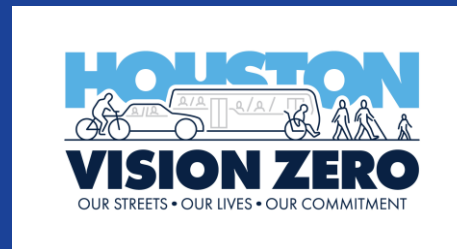
Citywide Truck Route Plan

November 9, 2023

Muxian Fang, Planner Manager



PLANNING &
DEVELOPMENT
DEPARTMENT



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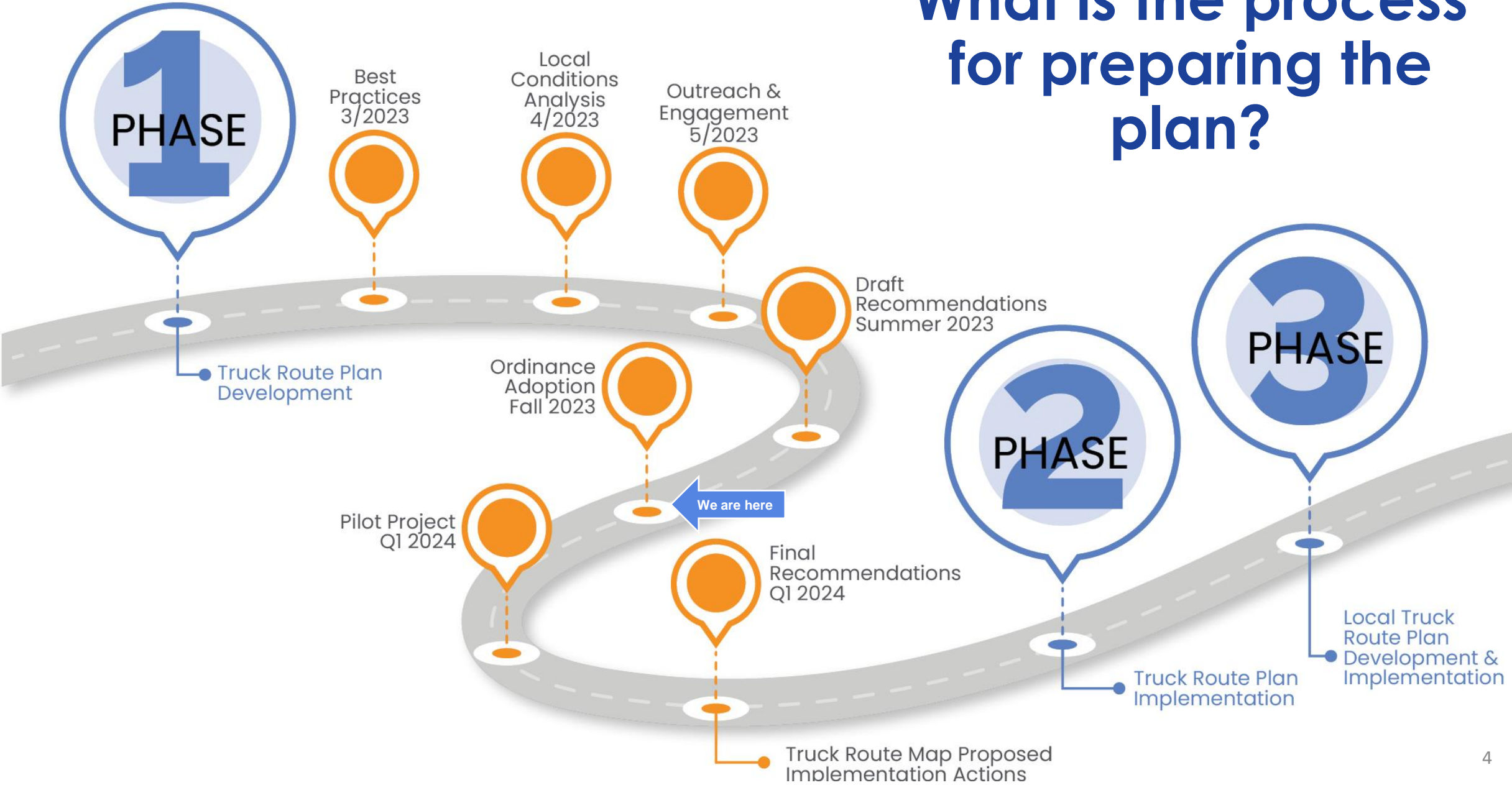
Project Overview

Why does Houston need a Truck Route Plan?


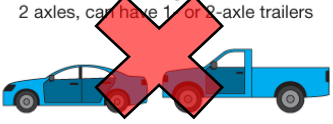



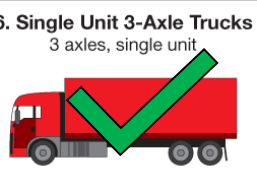

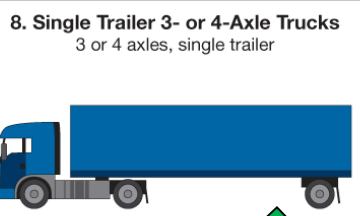


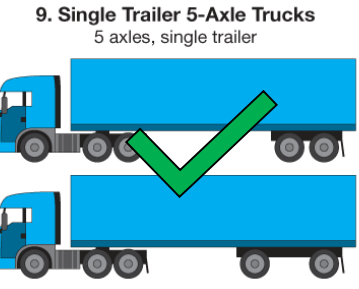
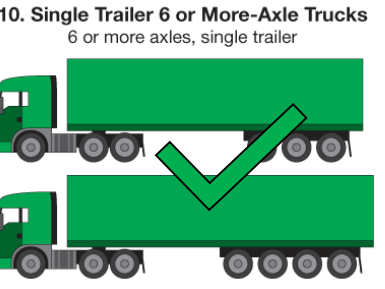



1. Address freight movement on City of Houston roadways
(estimated 60% freight tonnage increase b/w 2015 & 2040)
2. Create objective criteria to designate select Houston roadways as “Through Truck Routes”
3. Improve multi-modal safety
4. Improve quality of life
5. Maintain infrastructure in state of good repair
6. Enhance efficiency and promote economic vitality



What is the process for preparing the plan?



What types of trucks are part of the plan?

FHWA Vehicle Classifications			
<p>1. Motorcycles 2 axles, 2 or 3 tires</p> 	<p>2. Passenger Cars 2 axles, can have 1 or 2-axle trailers</p> 	<p>3. Pickups, Panels, Vans 2 axles, 4-tire single units Can have 1 or 2 axle trailers</p> 	<p>4. Buses 2 or 3 axles, full length</p> 
<p>5. Single Unit 2-Axle Trucks 2 axles, 6 tires (dual rear tires), single-unit</p> 	<p>6. Single Unit 3-Axle Trucks 3 axles, single unit</p> 	<p>7. Single Unit 4 or More-Axle Trucks 4 or more axles, single unit</p> 	<p>8. Single Trailer 3- or 4-Axle Trucks 3 or 4 axles, single trailer</p>   
<p>9. Single Trailer 5-Axle Trucks 5 axles, single trailer</p> 	<p>10. Single Trailer 6 or More-Axle Trucks 6 or more axles, single trailer</p> 		
<p>11. Multi-Trailer 5 or Less-Axle Trucks 5 or less axles, multiple trailers</p> 	<p>12. Multi-Trailer 6-Axle Trucks 6 axles, multiple trailers</p> 		
<p>13. Multi-Trailer 7 or More-Axle Trucks 7 or more axles, multiple trailers</p> 			

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Peer City Best Practices

Learning from Others

Methodology

- Atlanta
- Irvine
- Harris County

Ordinance Language

- Atlanta
- Fort Worth

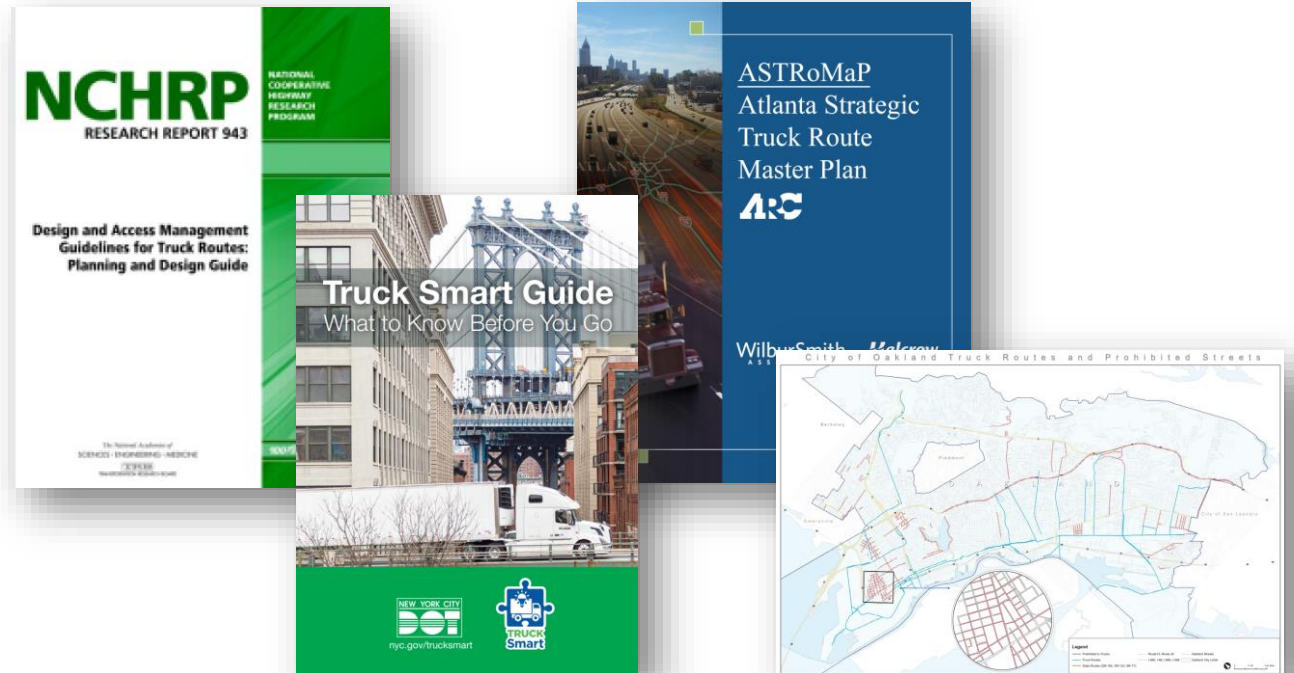
Enforcement & Communication

- NYC
- Fremont

Implementation

- New Orleans
- Oakland

*Plus National Cooperative Highway Research Program's (NCHRP) Research Report, **Design and Access Management Guidelines for Truck Routes Planning and Design Guide** (2020)*



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Summary of Local Conditions Analysis

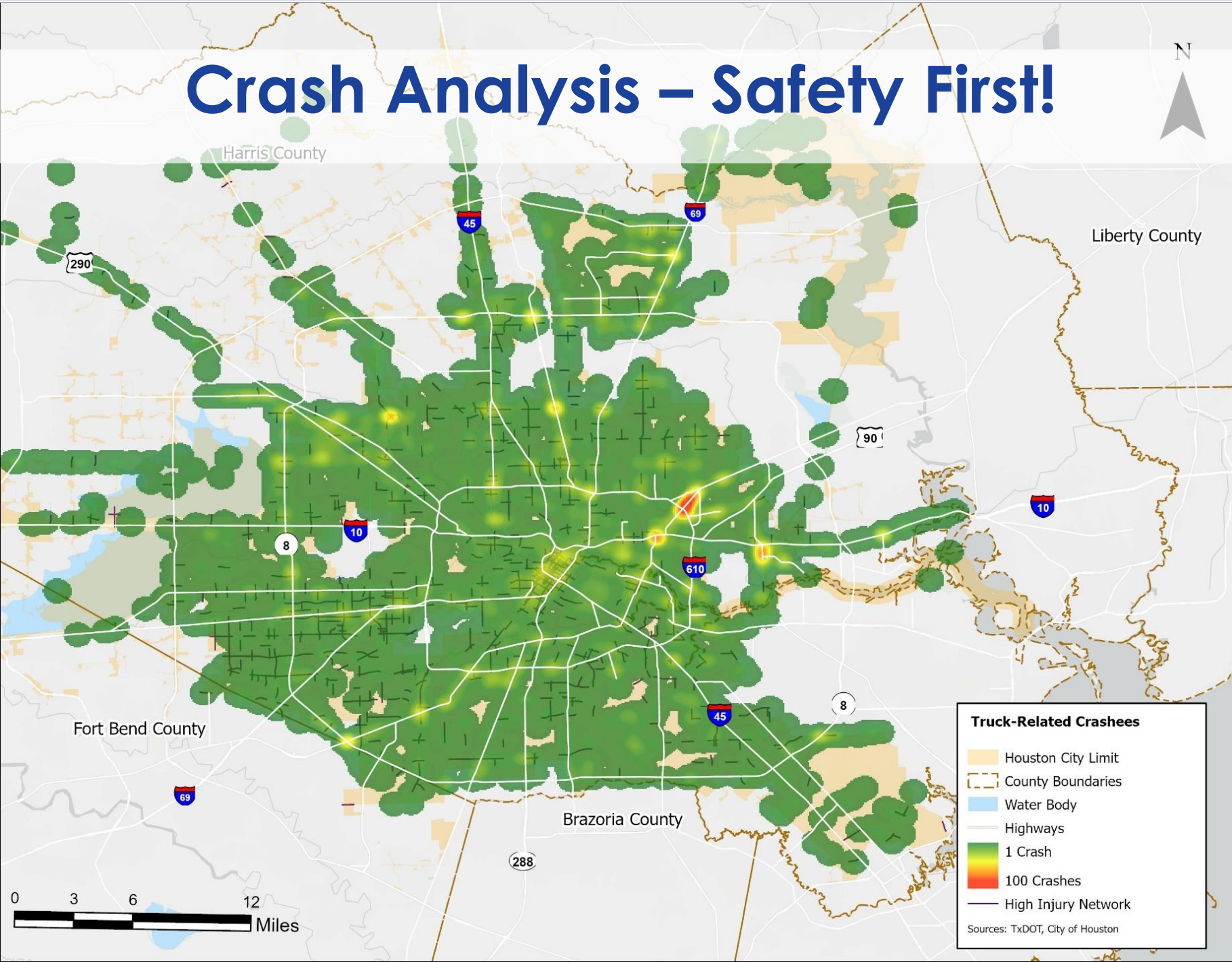
Crash Analysis – Safety First!



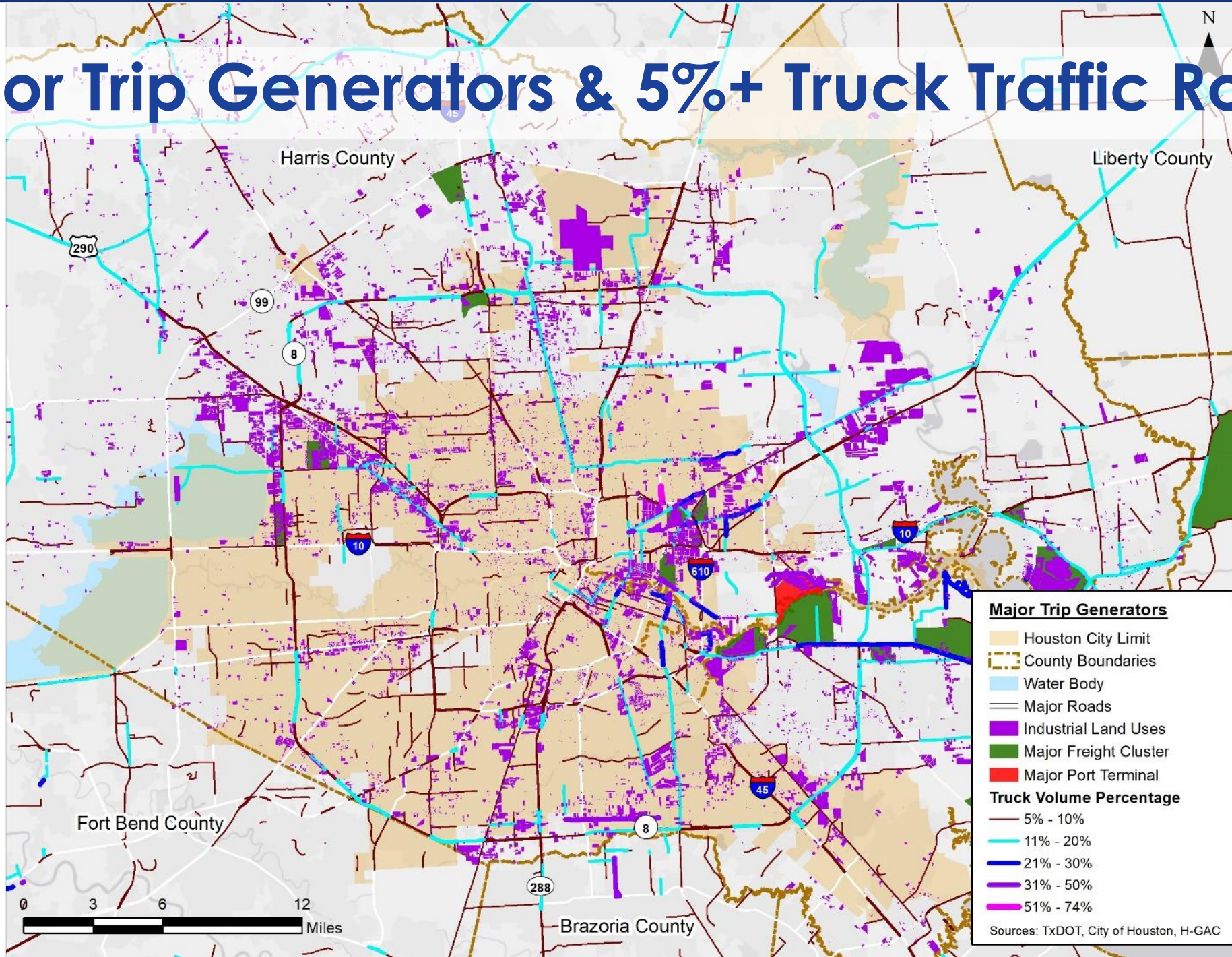
4,778 truck-related crashes along non-interstate roadways between 2018 and 2022

Intersections:

- Bingle Rd and West Little York
- US 90A and Mesa Dr
- McCarty St and I-10



Major Trip Generators & 5%+ Truck Traffic Roads



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Public Engagement Findings

Input Activities

2 Interdepartmental Meetings

2 Interagency Meetings

3 *Public Meetings*

2 *Stakeholder Meeting*

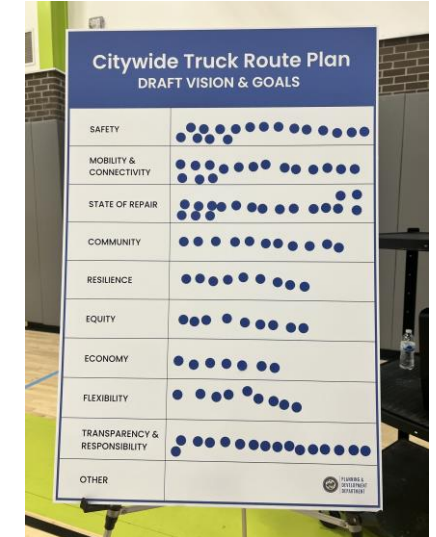
4 Neighborhood Tours

1 Let's Talk Houston website

1 Truck Hot Spot Map

2 Surveys

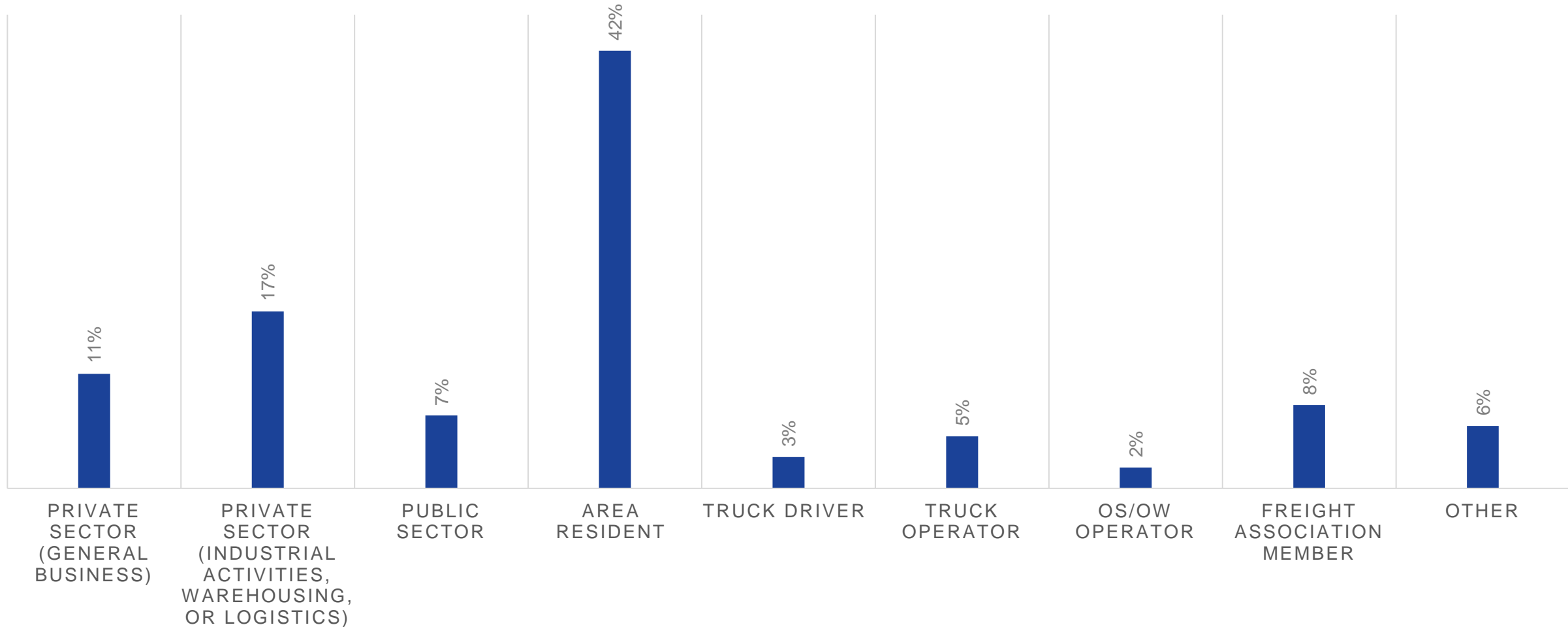
100+ Responses



Participant Profile of Surveys Submitted

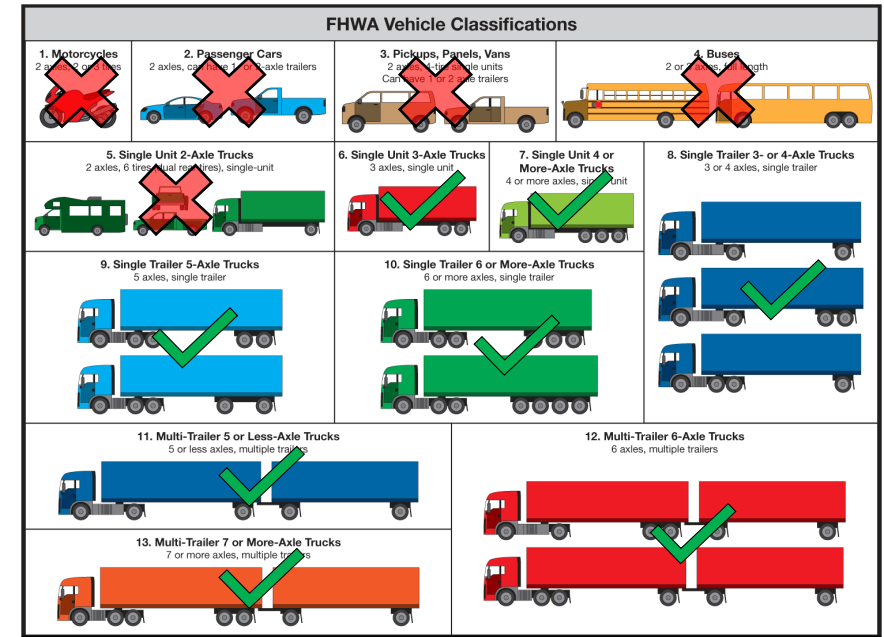
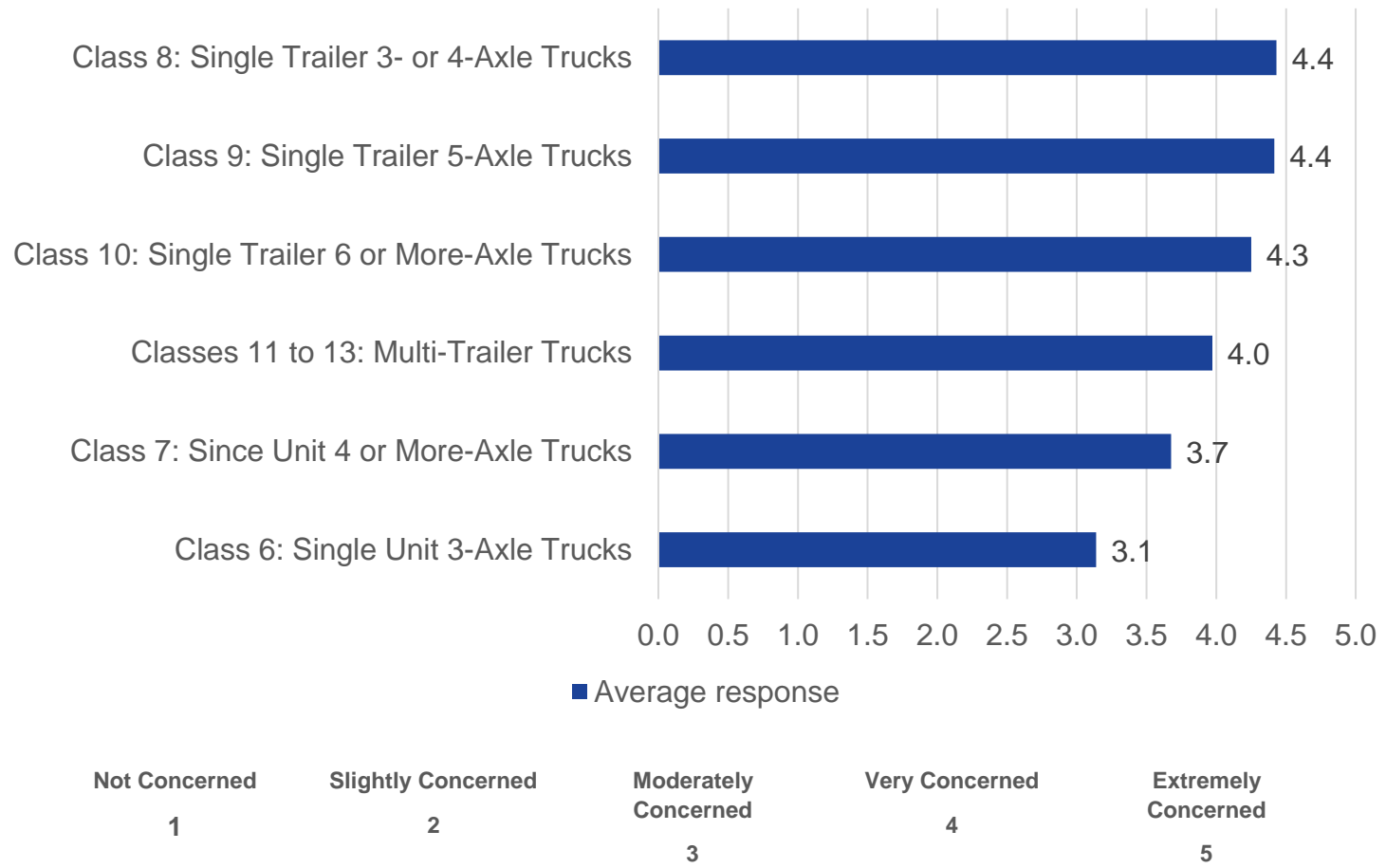
PERCENT PARTICIPATION BY TYPE (COMMUNITY & INDUSTRY)

■ Survey Respondents



Truck Types of Concern to the Community

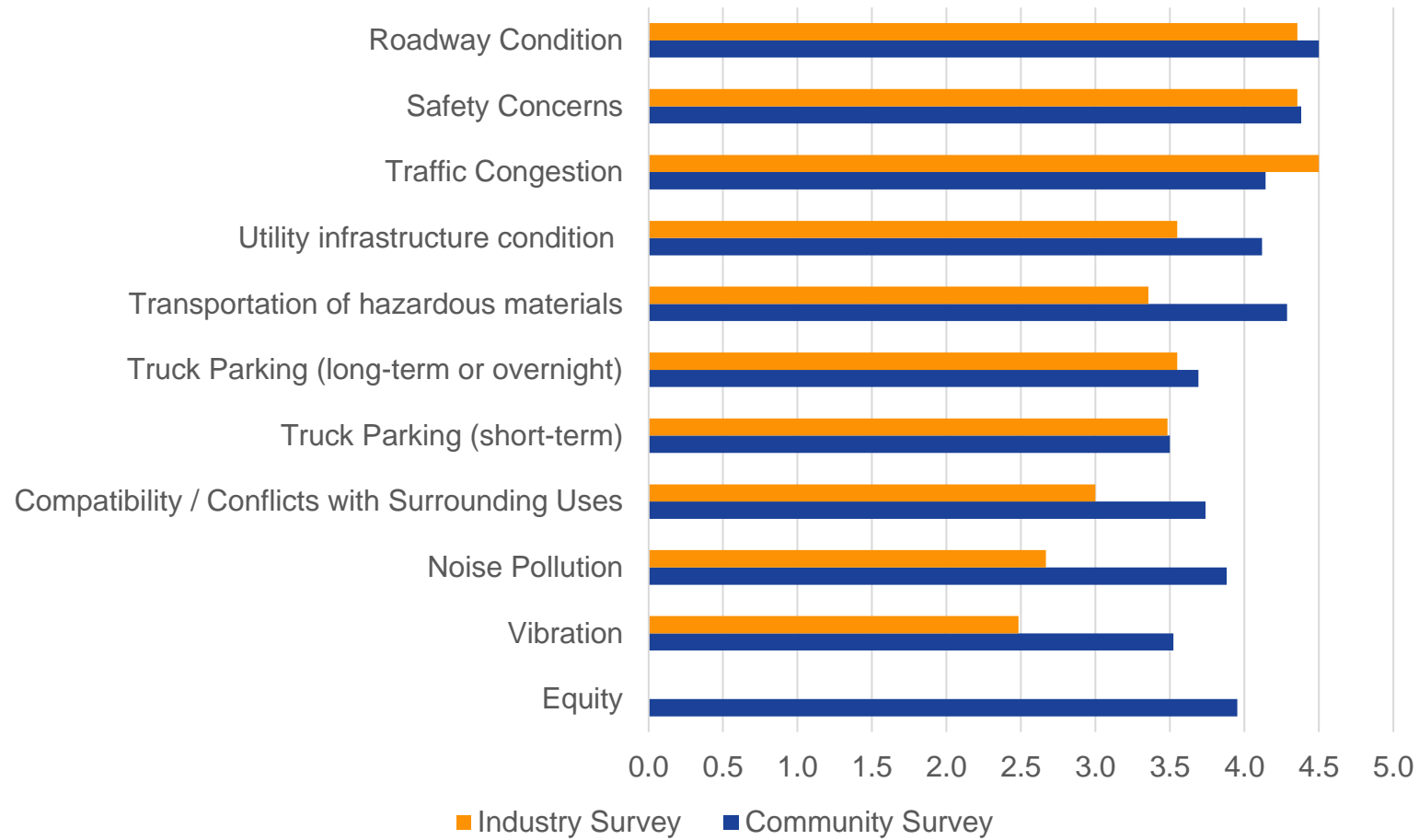
Average Score



Gross Vehicle Weight Rating (lbs)	Federal Highway Administration		US Census Bureau
	Vehicle Class	GVWR Category	VIUS Classes
<6,000	Class 1: <6,000 lbs	Light Duty <10,000 lbs	Light Duty <10,000 lbs
10,000	Class 2: 6,001 – 10,000 lbs		
14,000	Class 3: 10,001 – 14,000 lbs	Medium Duty 10,001 – 26,000 lbs	Medium Duty 10,001 – 19,500 lbs
16,000	Class 4: 14,001 – 16,000 lbs		
19,500	Class 5: 16,001 – 19,500 lbs		
26,000	Class 6: 19,501 – 26,000 lbs	Heavy Duty >26,001 lbs	Light Heavy Duty: 19,001 – 26,000 lbs
33,000	Class 7: 26,001 – 33,000 lbs		
>33,000	Class 8: >33,001 lbs		Heavy Duty >26,001 lbs

Truck Related Concerns Survey Results

Average Score



Not Concerned
1

Slightly Concerned
2

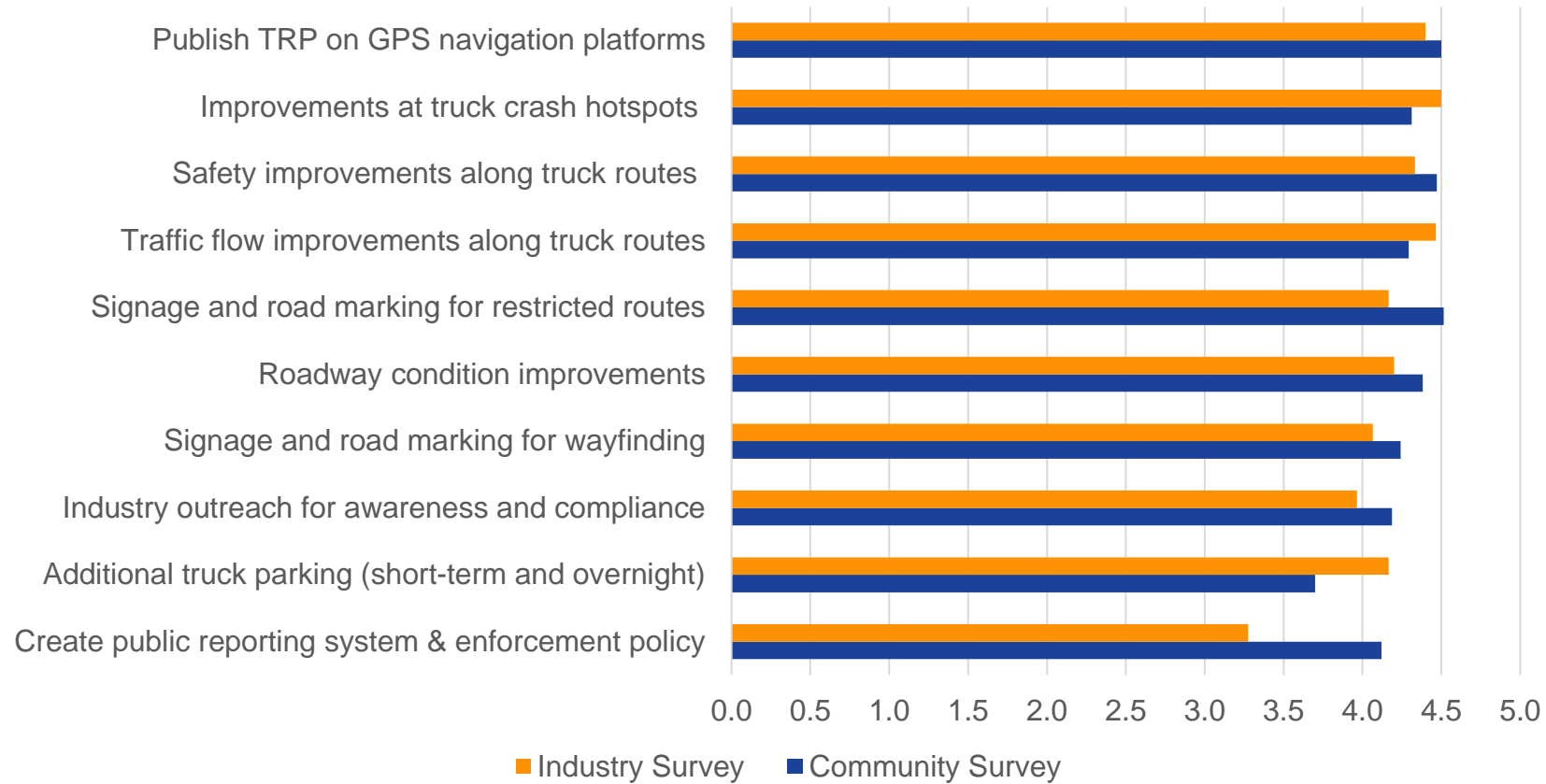
Moderately Concerned
3

Very Concerned
4

Extremely Concerned
5

Funding Priorities

Average Score

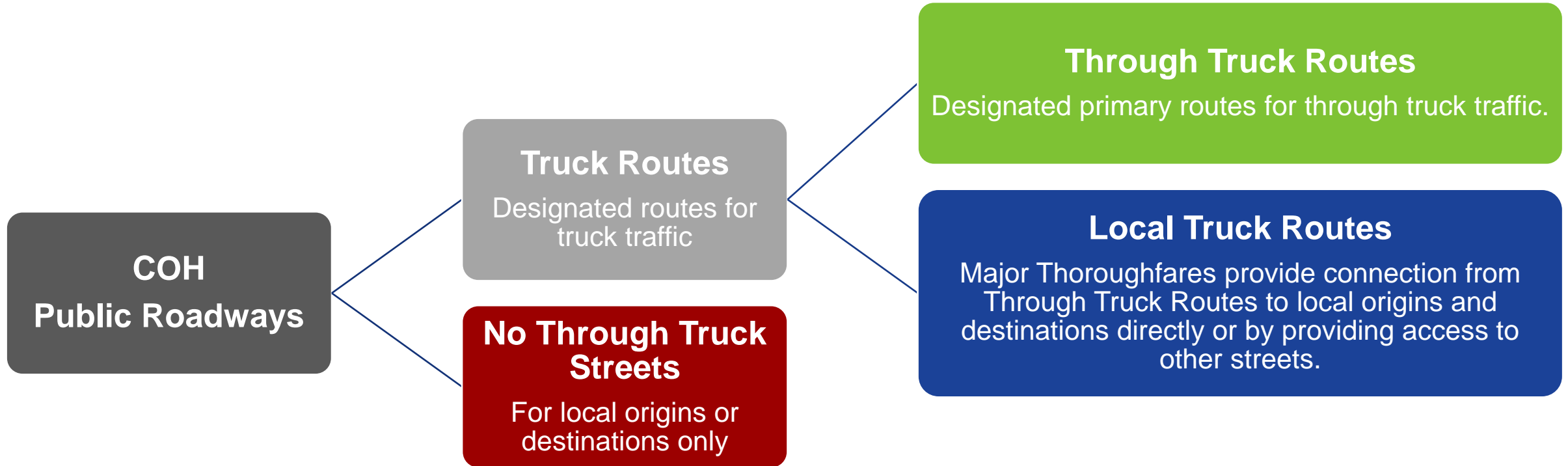


Not Important Somewhat Important Moderate Importance High Importance Most Important
1 2 3 4 5

5

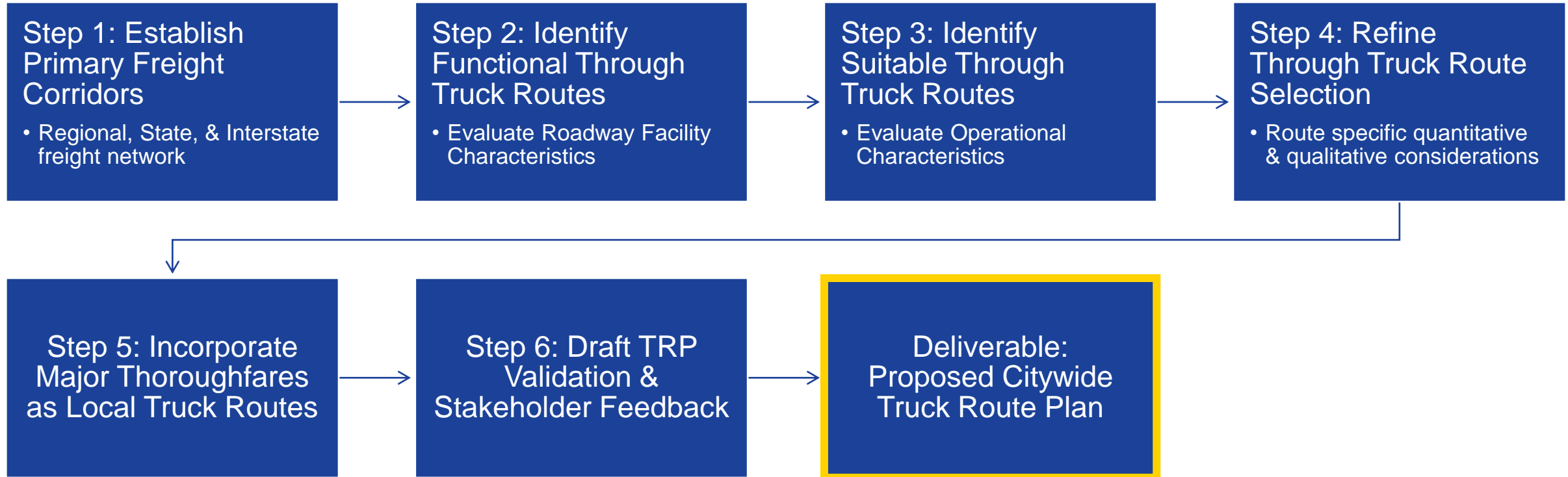
TRP Methodology

Types of Truck Routes



Pickup or delivery of goods, wares, merchandise, construction materials, or solid waste from or to any property located on a roadway within the city. Also includes driving to and from driver's residence or property of the motor carrier owning the vehicle, parking in authorized location, or driving to seek service or repairs. (AKA local delivery.)

Draft Truck Route Designation Process



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Next Steps

Next Steps...

- Citywide Truck Route Plan Ordinance Adoption – November 2023
 - To authorize the Planning Department to establish a Citywide Truck Route Plan
- Settegast Pilot project – Spring 2024
 - To test the proposed Through Truck Route designation approach in a pilot area and finalize the approach
- Citywide Truck Route Plan Adoption – Summer 2024
 - To utilize the Through Truck Route designation approach to establish a Citywide Truck Route Plan

Project Webpage

The screenshot shows a web browser window with the URL letstalkhouston.org/citywide-truck-route-plan. The page header includes the Planning & Development Department logo and navigation links: Home, About Us, Frequently Asked Questions, Archived Projects, Participate Now, a search bar, and Sign in / Register. The main image features a white semi-truck on the left and a yellow diamond-shaped road sign with a black arrow pointing up and a black truck icon on the right. Several yellow arrows are overlaid on the scene, indicating various directions of truck movement. Below the image, the breadcrumb "Home / Citywide Truck Route Plan" is visible.

Citywide Truck Route Plan

[f](#) [t](#) [in](#) [e](#)

Houston is one of the busiest port cities in the United States and has a thriving logistics and transportation industry. The city's strategic location and excellent connectivity to major highways, railroads, and airports make it an ideal hub for freight movement. The Houston-Galveston Area Council (HGAC) estimates that freight tonnage in the Houston metropolitan area will grow by 60% from 2015 to 2040, driven by population growth, economic development, and increasing trade volumes. This growth presents challenges that we need to address through a proactive planning process.

The City of Houston Planning and Development Department is developing a Citywide Truck Route Plan to proactively manage freight movement throughout the city. It was launched as a Vision Zero Action. We aim to create objective criteria to designate certain roadways as "Through Truck Routes" that will allow trucks to move goods through the city.

Who's Listening

Muxian Fang
Planner Manager

Email Muxian.Fang@houston.tx.gov

Recent Public Meetings



bit.ly/Hou-Truck-Route

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Q&A

Thank You



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