

**TIP SUBCOMMITTEE MEETING  
HOUSTON-GALVESTON AREA COUNCIL**

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[+1 346-262-0140,,122644693#](#) United States, Houston

Phone conference ID: 508 162 404#

**Wednesday, July 3, 2024**

**1:30 p.m. – 3:30 p.m.**

**AGENDA**

- 1. Subcommittee Roll Call**
- 2. Carryover Spend Down Projects Update**
- 3. Reliability, Congestion and Air Quality Performance Measures**
- 4. Project Selection Process Update**
- 5. 2025-2028 TIP Submission**
- 6. Announcements**
  - TAC Meeting - **July 17, 2024**, 9:30 a.m., Onsite
  - TPC Meeting – **July 26, 2024**, 9:30 a.m., Onsite
  - TIP Subcommittee Meeting – **August 7, 2024**, 1:30 p.m., Virtual (Teams)
- 7. Adjourn**

Potential Additional Carry Over Spend Down Projects - Presented at TIP Subcommittee on July 3, 2024

| Sponsor Name                             | Street/Facility                                               | Project Limits From                                                                                                                                                                                                                                                       | Project Limits To         | Proposed TIP Description                                                                                                                                                                                                                 | Additional Amount Requested |
|------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| Fort Bend County Public Transportation   | Thomas Taylor Parkway & Texas Parkway<br>Missouri City, TX    |                                                                                                                                                                                                                                                                           | -                         | Construction Phase for Bus Facility-Parking Garage                                                                                                                                                                                       | \$8,000,000                 |
| City of Missouri City                    | City Service Area                                             | VA                                                                                                                                                                                                                                                                        | VA                        | Construction for ITS Equipment at Various Locations                                                                                                                                                                                      | \$1,100,000                 |
| City of Galveston                        | Galveston CBD                                                 | VA                                                                                                                                                                                                                                                                        | VA                        | Streetscape improvements including bike lanes, public transit stop improvements, drainage enhancements, lighting, wake breaks, and shade structures. Also, repair of the trolley track switches for UTMB-Downtown Streetcar routes.      | \$12,000,000                |
| Greater Southeast Management District    | Columbia Tap Trail                                            | Brays Bayou (south) to Emancipation Avenue / Shell Energy Stadium (north)                                                                                                                                                                                                 |                           | Fill gap in trail along Dixie Drive between FM 521 and Columbia Tap Trail. Install safety lighting and improve crossing safety conditions along Columbia Tap Trail from Dixie Drive to Emancipation Avenue / Shell Energy Stadium.       | \$7,500,000                 |
| Westchase District                       | Ella Lee Ln, Tanglewilde Street, Westerland Dr, Meadowglen Ln | 4 Connected Segments. 1) Ella Lee Ln/S Gessner Rd -> Ella Lee Ln/Westerland Dr. 2) Ella Lee Ln/Westerland Dr -> Westerland Dr/Westheimer Rd. 3) Tanglewilde St/Ella Lee Ln -> Tanglewilde St/Meadowglen Ln. 4) Tanglewilde St/Meadowglen Ln -> Meadowglen Ln/S Gessner Rd |                           | The Tanglewilde Sidepath project involves creating a shared use path along the project limits, inclusive of both landscaping and pedestrian lighting. This project does not involve roadway rehabilitation or intersection improvements. | \$10,000,000                |
| Generation Park Management District      | S Lake Houston Parkway                                        | BW 8                                                                                                                                                                                                                                                                      | Foley Rd/Diamondhead Blvd | Complete feasibility, preliminary engineering study, and environmental assessment of roadway expansion and extension.                                                                                                                    | \$3,000,000                 |
| Memorial Heights Redevelopment Authority | W 18th Street                                                 | Bevis St                                                                                                                                                                                                                                                                  | Nicholson St              | Construct new ADA compliant sidewalks on both sides of the street, new crosswalks, curb ramps, refresh pavement markings. Also reconstruction of existing sidewalks and ramps to accommodate AFA slope and width requirements.           | \$3,000,000                 |
|                                          |                                                               |                                                                                                                                                                                                                                                                           |                           | <b>Total</b>                                                                                                                                                                                                                             | <b>\$44,600,000</b>         |





# Reliability, Congestion and Air Quality Performance Measures



Karen Owen  
TIP Subcommittee  
July 3, 2024



# Performance Measures

## Reliability

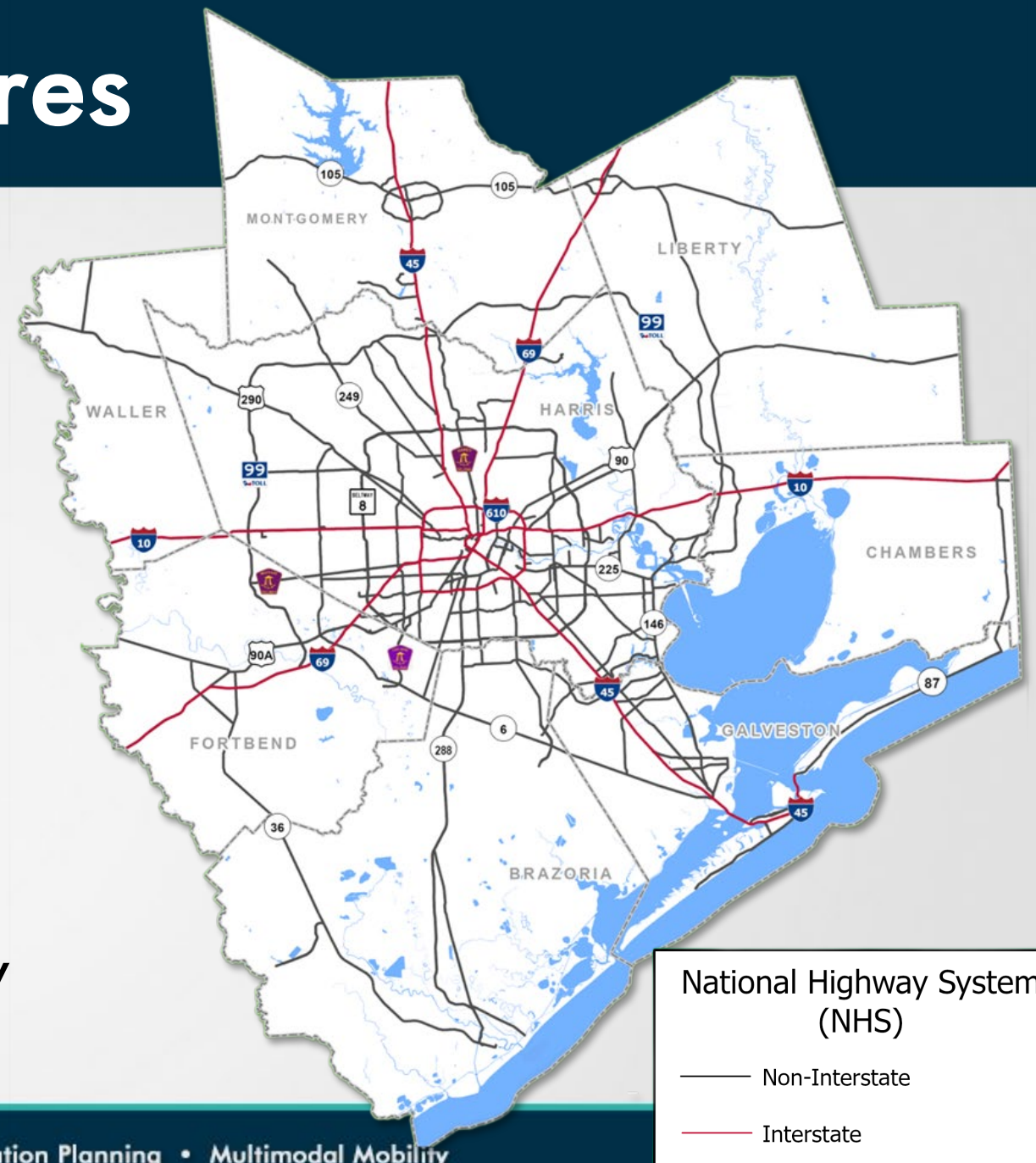
- Personal & Truck Travel

## Congestion

- Peak Hour Excessive Delay
- Non-Single Occupant Vehicles

## Air Quality

- Tailpipe emissions reduced from Congestion Mitigation Air Quality (CMAQ) projects



# Federal Performance Measures



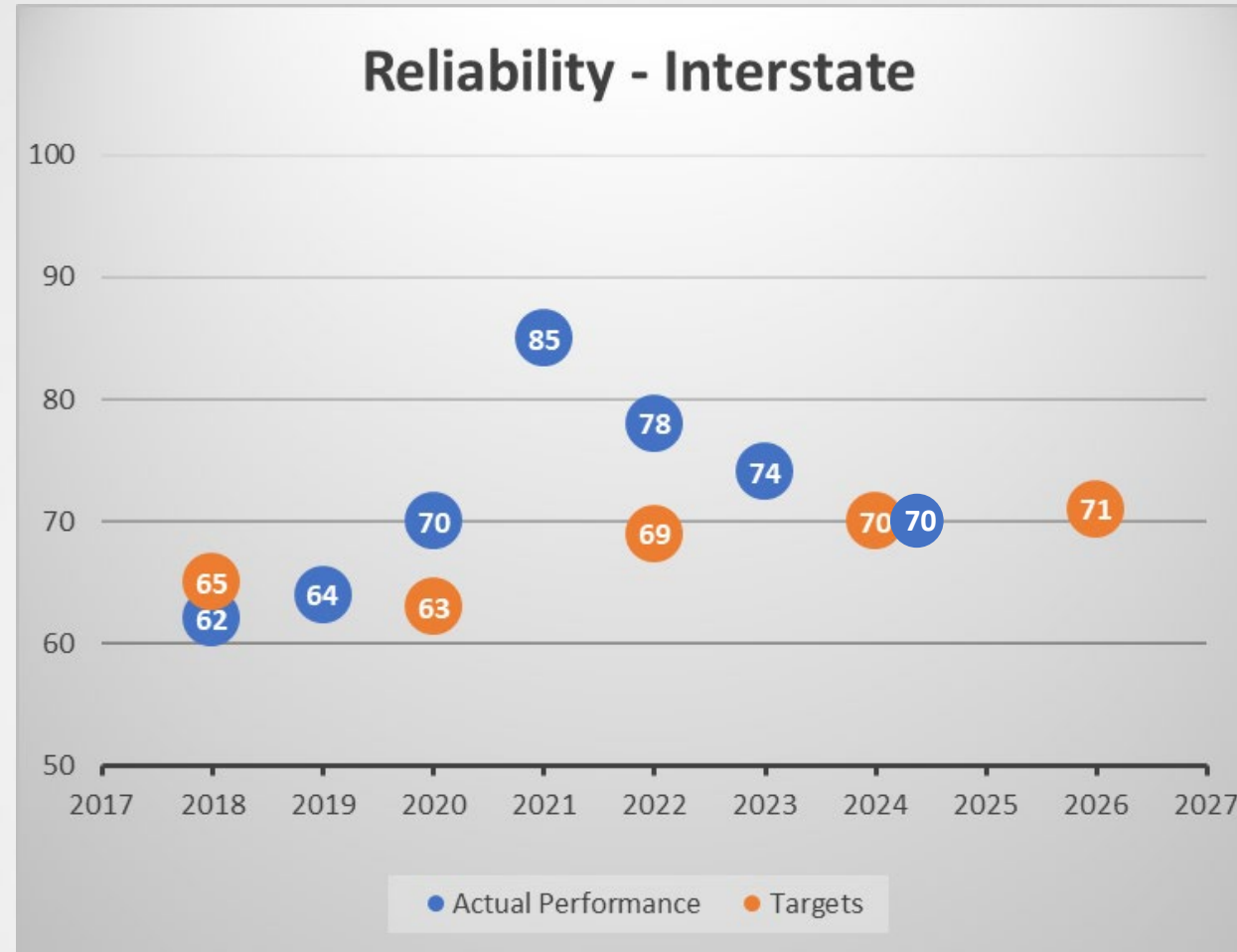
- 2024 Actual Performance based on previous year
  - 2024 performance is based on 2023 traffic conditions
- 2026 Target Adjustments
- No penalties if targets aren't met

# Percentage of Reliable Person-Miles (Annual)

Level of Travel  
Time Reliability  
(LOTTR) =  
Ratio of the  
80<sup>th</sup> percentile  
(bad traffic) / 50<sup>th</sup>  
percentile (normal  
traffic)

Example: For a 30-minute  
trip:

- Reliable = 30 to 45 mins.
- Unreliable = More than 45 mins.



2024 Target met

An increased value indicates improvement

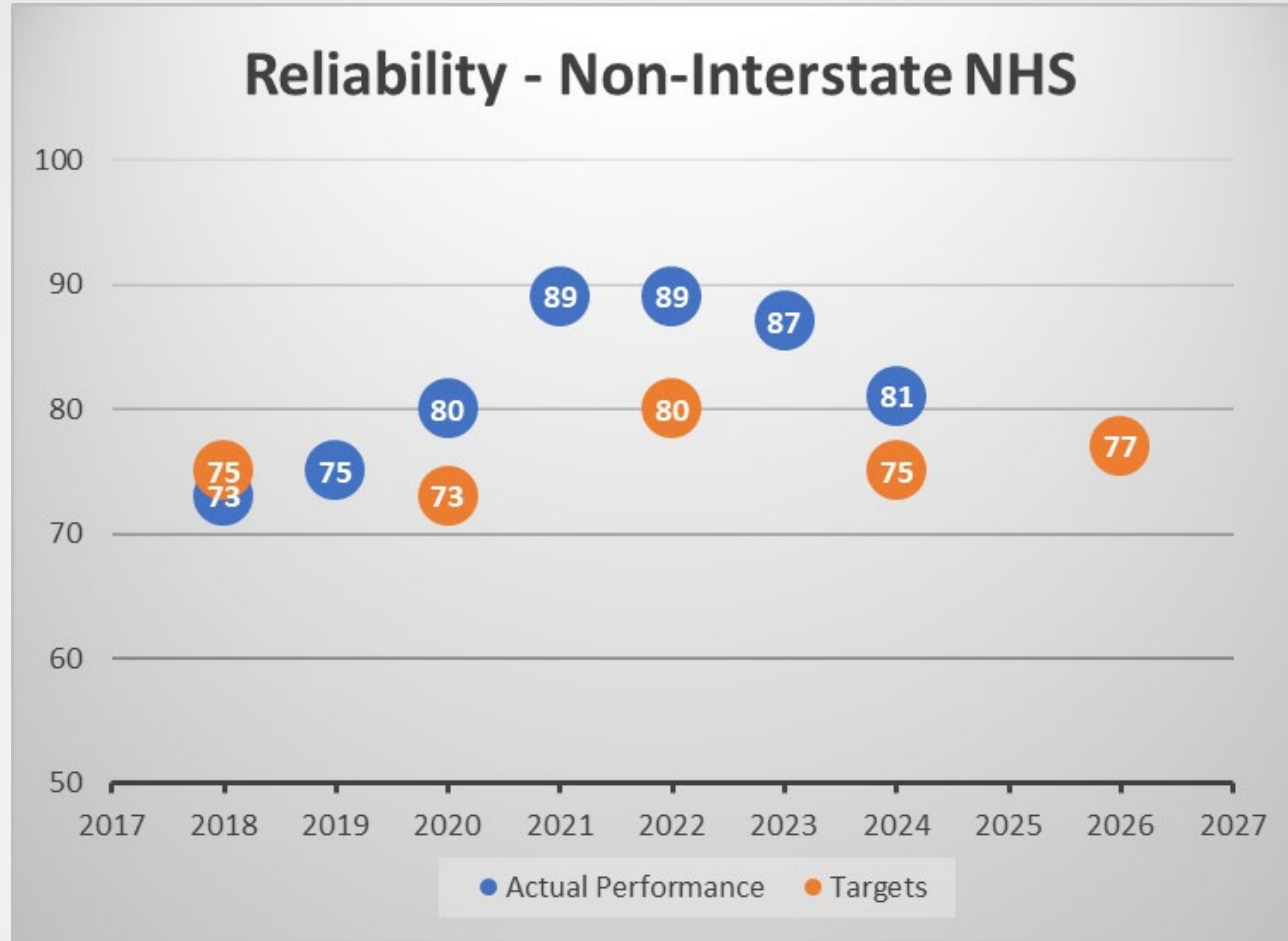


# Percentage of Reliable Person-Miles (Annual)

Level of Travel  
Time Reliability  
(LOTTR) =  
Ratio of the  
80<sup>th</sup> percentile  
(bad traffic) / 50<sup>th</sup>  
percentile (normal  
traffic)

Example: For a 30-minute  
trip:

- Reliable = 30 to 45 mins.
- Unreliable = 45 mins. or longer



2024 Target met

An increased value indicates improvement





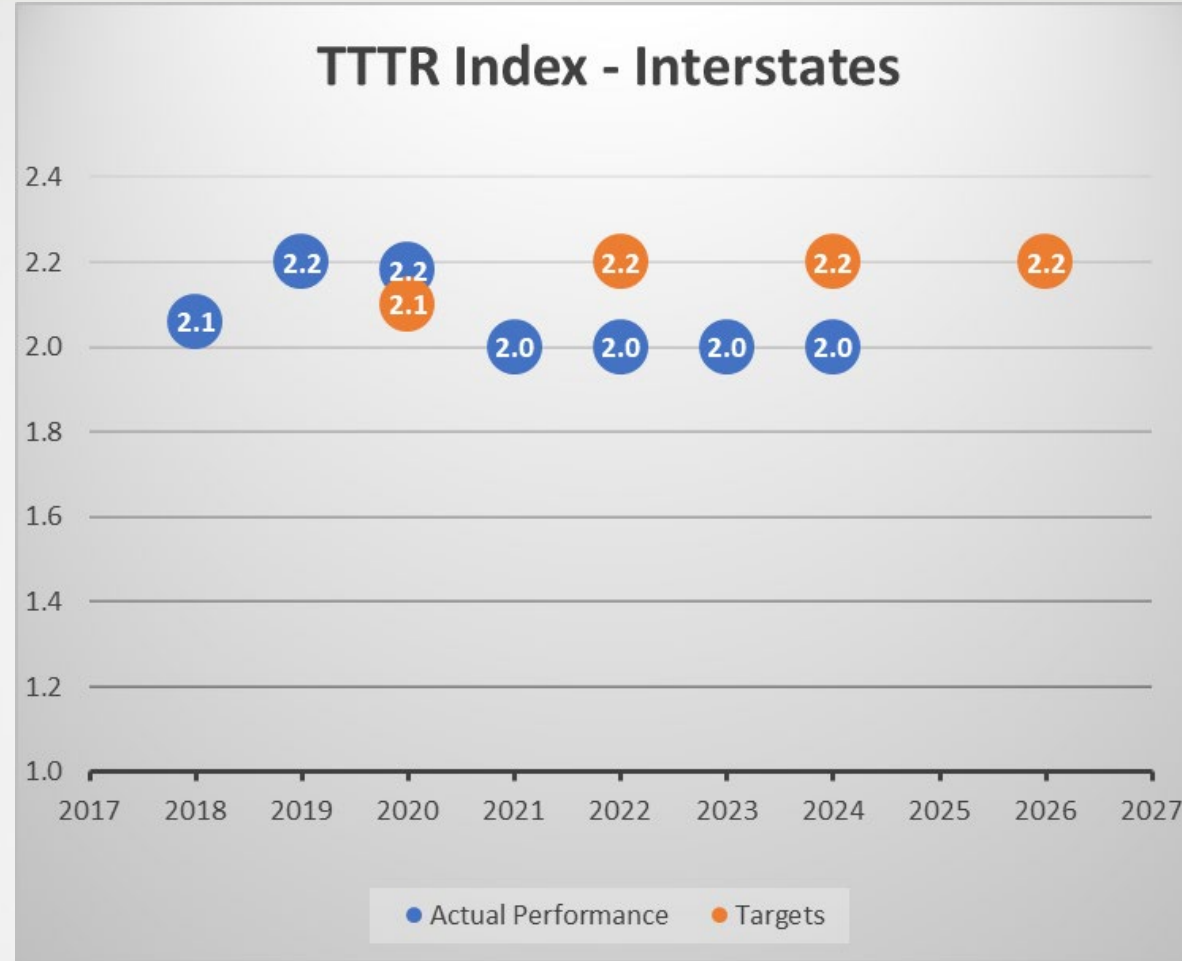
# Truck Travel Time Reliability Index

Truck Travel Time Reliability (TTTR) Index is the time a truck driver adds to a median trip length to arrive on-time, 95% of the time.

Ratio of 95<sup>th</sup> percentile (very bad traffic) / 50<sup>th</sup> percentile (normal traffic)

Example:

What is normally a trip of 30 minutes X 2.1 (truck index) = 63 minutes.



2024 Target met

A decreased value indicates improvement



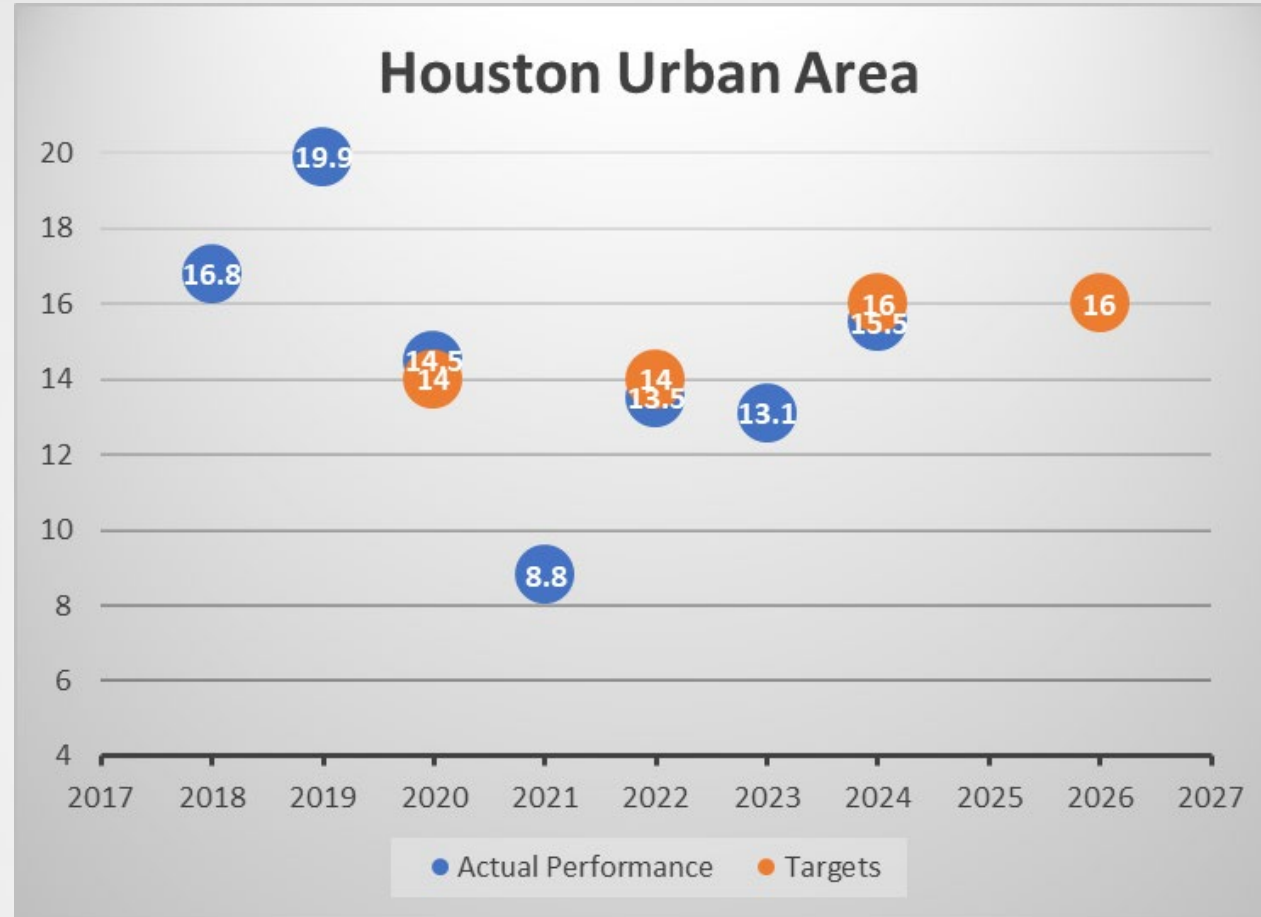


# Peak Hour Excessive Delay

The annual average hours of extra travel time on the National Highway System in excessive conditions per capita.

Peak Periods (Mon-Fri)  
AM Peak (6-10 am)  
PM Peak (3-7 pm)

For a speed limit of 60 mph (60% of 60 mph), the excessive delay occurs below 36 mph.



2024 Target met

Adjust 2026 Target to 17 hours

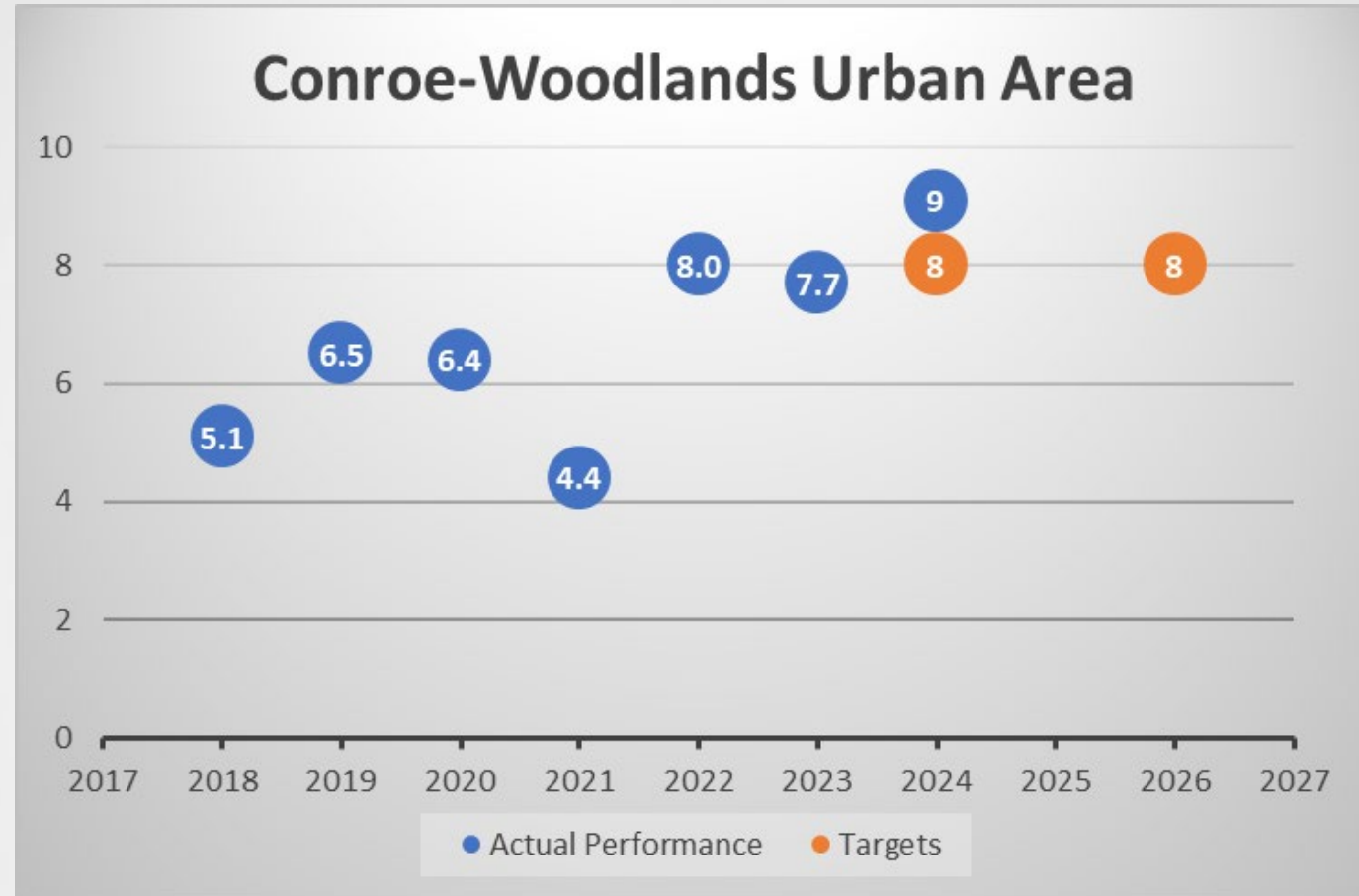
A decreased value indicates improvement ↓

# Peak Hour Excessive Delay

The annual average hours of extra travel time on the National Highway System in excessive conditions.

Mon. – Fri. Peak Periods  
AM Peak (6-10 am)  
PM Peak (3-7 pm) more delay

For a speed limit of 60 mph (60% of 60 mph), the excessive delay occurs below 36 mph.



2024 Target **not met**

Hold the 2026 Target at 8%

A decreased value indicates improvement

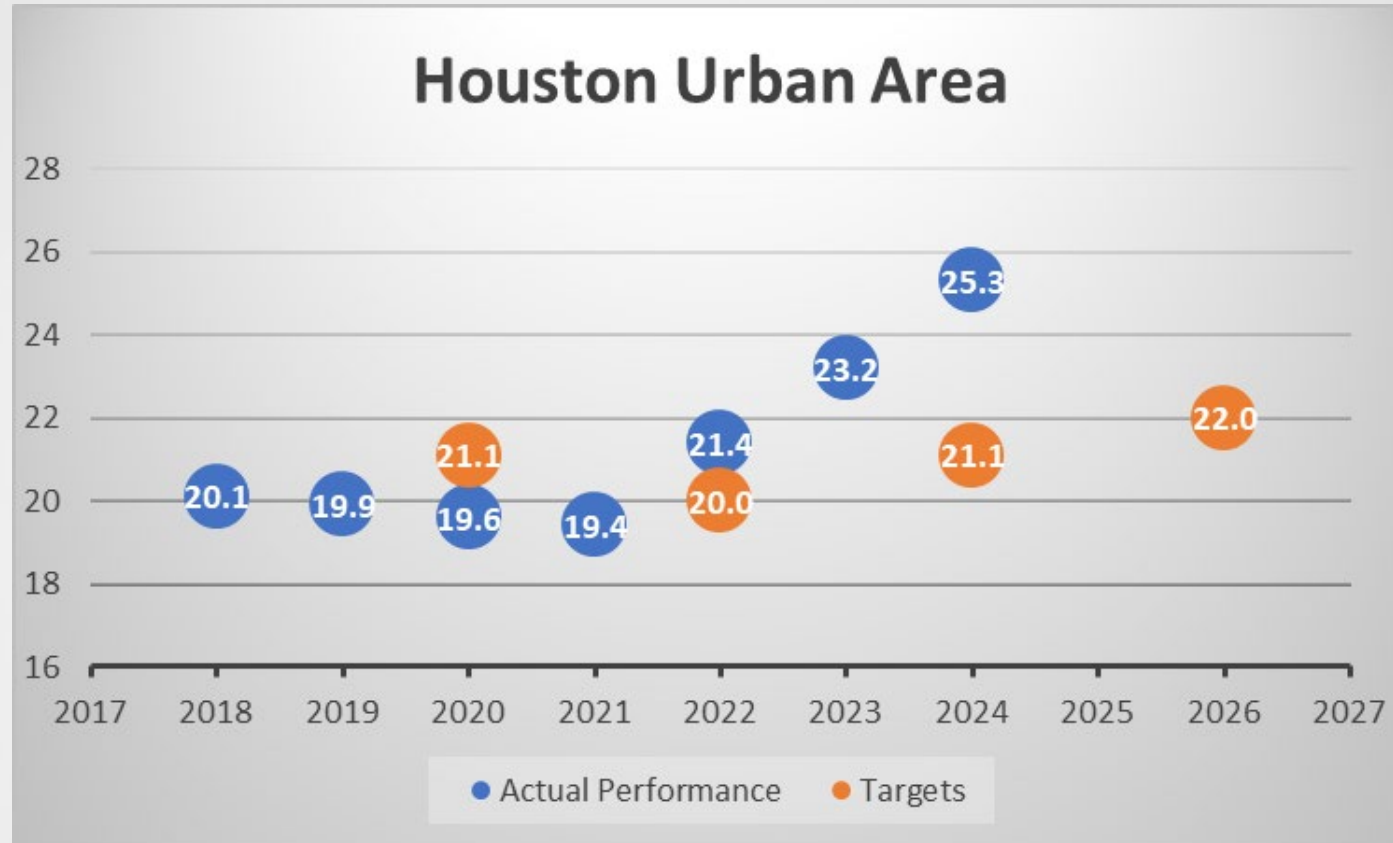


# Percent of Non-Single Occupant Vehicles

Percent of Work Trips made in Non-Single Occupant Vehicles

- Carpooling
- Riding public transportation
- Walking
- Bicycling
- Taxicab or other means
- Working from home

American Community Survey (ACS) 5-year averages



**2024 Target met**

2024 Actual is based on the 5-year average for **2018-2022**.

**Adjust 2026 Target to 27%**

An increased value indicates improvement



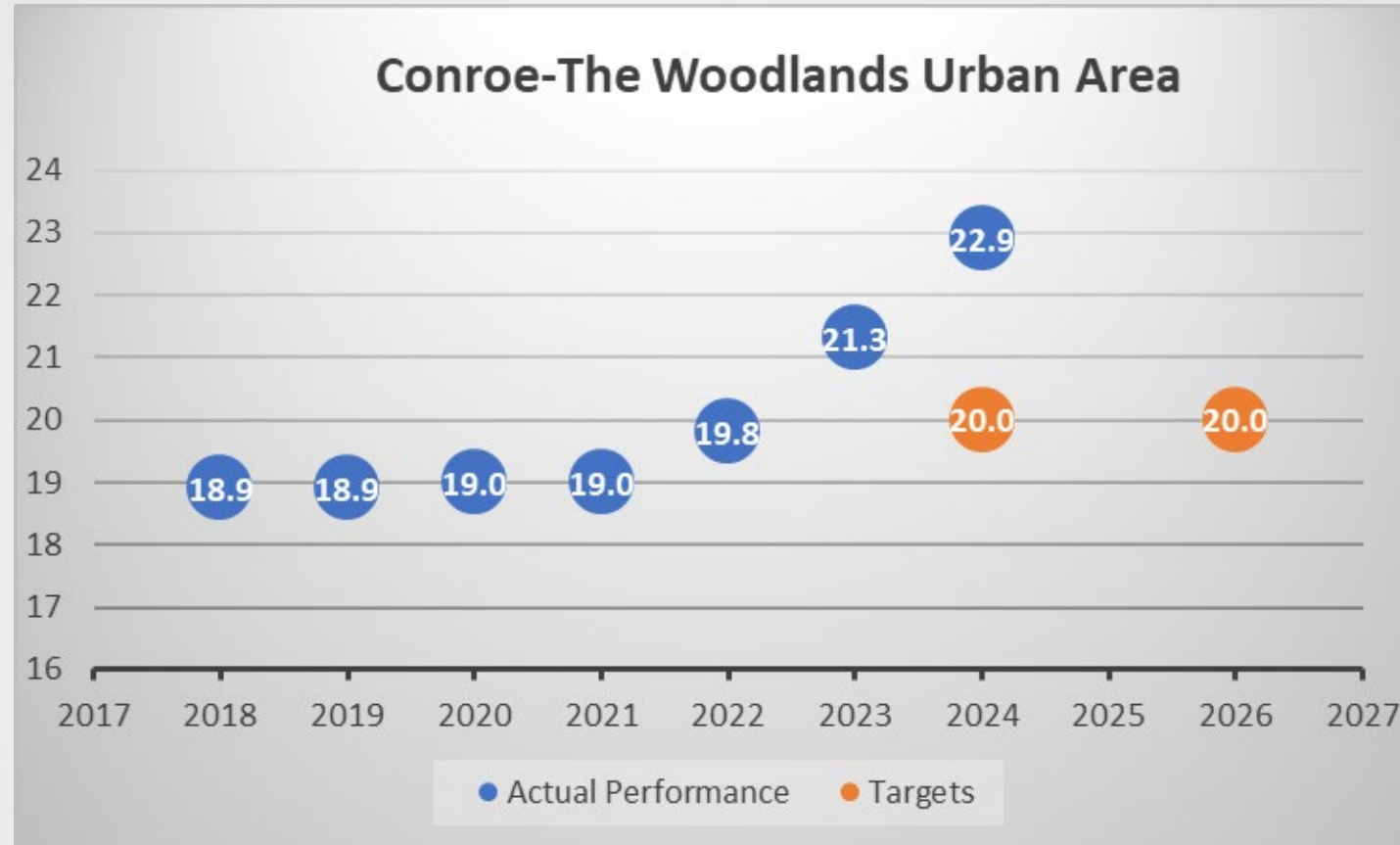


# Percent of Non-Single Occupant Vehicles

Percent of Work Trips made in Non-Single Occupant Vehicles

- Carpooling
- Riding public transportation
- Walking
- Bicycling
- Taxicab or other means
- Working from home

American Community Survey (ACS) 5-year averages



**2024 Target met**

2024 Actual is based on the 5-year average for **2018-2022**.

**Adjust 2026 Target to 24%**

An increased value indicates improvement



# On-Road Mobile Source Emission Reductions (kg/day)

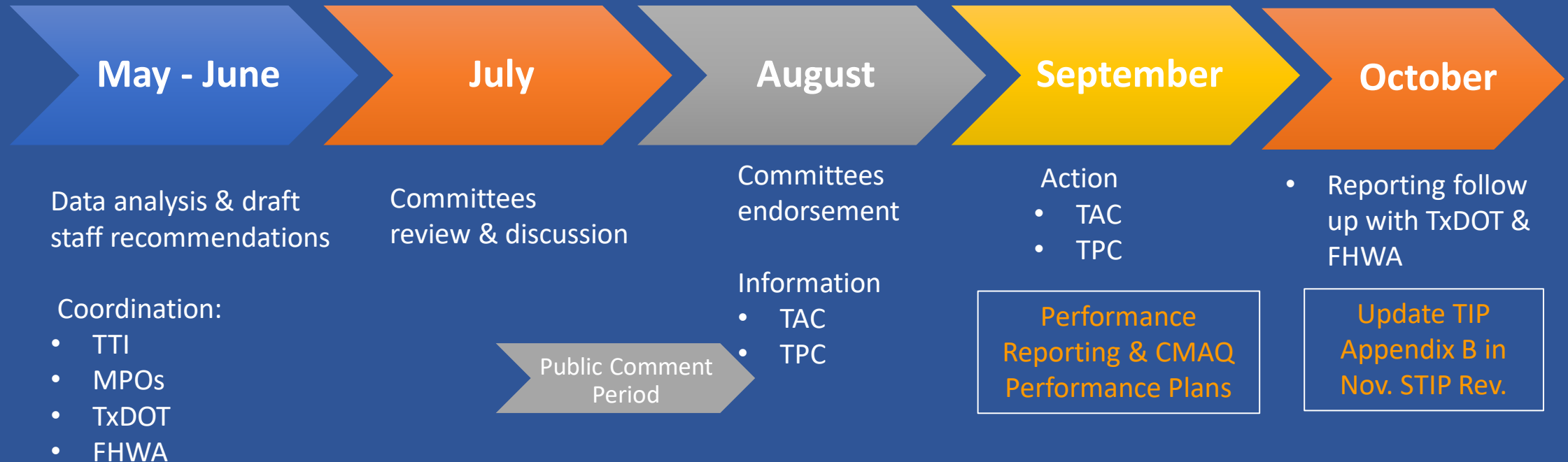
| Target Years                        | NOx              | VOC             |
|-------------------------------------|------------------|-----------------|
| 2-Year Targets (FY 22 & 23)         | 221.251          | 69.939          |
| 2-Year Actuals                      | 19.964           | 4.325           |
| <b>Shortage</b>                     | <b>(201.287)</b> | <b>(65.614)</b> |
| 4-Year Targets (FY 22, 23, 24 & 25) | 601.465          | 172.864         |

2-Year Targets were not met due to

- Delays
- STIP Exceptions awaiting FHWA clearance
- Cancellations

Nitrogen Oxides (NOx)  
Volatile Organic Compounds (VOC)

# Reliability, Congestion & Air Quality Performance Measures



H-GAC Subcommittees – (4)  
 TIP, RTP, Transportation Air Quality, and Transportation Systems Management & Operations Subcommittees  
 Transportation Advisory Committee (TAC)  
 Transportation Policy Council (TPC)



# Performance Measures



Performance Measures Webpage:  
<https://www.h-gac.com/transportation-performance-measures>

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# Project Selection Process Update



TIP Subcommittee  
July 3, 2024



# Investment Categories

- Selection Process in progress
  - Major Projects
  - High Growth Area Needs
  - Operational Improvements and Congestion Management
  - Resiliency and State of Good Repair
  - Transit
  - Evaluation criteria responses available at H-GAC website [Search](#) "Transportation Project Questionnaires"



# Draft Score

- Draft Evaluation Criteria Scores
  - Completed
  - Started Scheduling meetings with sponsors
    - Summary of the Draft scores will be presented at the TAC
  - Complete meeting with sponsors next week
- BCA for projects that scored a minimum of 50 points
  - July 22<sup>nd</sup> – August 23<sup>rd</sup>

# Contacts



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