



Item 5. 2023 TAC Subcommittee Nominations



Transportation Advisory Committee
March 15, 2023

TAC Nominations Committee

- Morad Kabiri, Chair
- Perri D'Armond
- Yancy Scott
- Amy Skicki
- David Wurdlow



TAC Nominations: Officers



Nominated Position	Primary-Name	Organization
Chair	Veronica Chapa-Gorczyński	East End District
First Vice Chair	Morad Kabiri	City of Friendswood
Second Vice Chair	Perri D'Armond	Fort Bend Transit

TAC Nominations: Pedestrian-Bicyclist



Representing	Primary-Name	Organization	Alternate-Name	Organization
Active Transportation	Patricia Kievlan	Bike The Woodlands Coalition	Todd Stephens	The Woodlands Township
Citizen Advocates	Joe Cutrufo	BikeHouston	Kristina Ronneberg	BikeHouston
Citizen Advocates	Dexter Handy	Greater Houston Coalition for Complete Streets	Harrison Humphreys	Air Alliance Houston
Citizen Advocates	Roy Lira	Houston Super Neighborhood Alliance	Kevin Strickland	Super Neighborhood 15
Transit	Yuhayna Mahmud	METRO	Aubin Phillips	METRO
Local Governments	Melanie Beaman	City of Sugar Land	Ethan Cantu	City of Sugar Land
Local Governments	Carry Capers	City of Pearland	Kevin Carter	City of Pearland
Local Governments	Jessica Cohen	Harris County	Fatima Wajahat	Harris County
Local Governments	John McGowan	The Woodlands Township	Chris Nunes	The Woodlands Township
Local Governments	John Orsag	City of League City	Chien Wei	City of League City
Local Governments	Ameena Padiath	City of Missouri City	vacant	
Management Districts	Louis Jullien	Westchase District	vacant	
Management Districts	Anibeth Turcios	Greater Northside Management District	Rebecca Reyna	Greater Northside Management District
Management Districts	Louis Jullien	Westchase District	Lupita Talley	Eastex-Jensen Super Neighborhood
Non-Profit	Lisa Graiff	Houston Parks Board	vacant	
Planning	Sherry Weesner	Memorial Heights Redevelopment Authority	vacant	
State	Brenda Bustillos	TxDOT Houston	Stephan Gage	TxDOT Houston
Transit	Thien Cao	Harris County Transit	Robert Anders	Harris County Transit
Transit	Sarah Coulter	Fort Bend County	vacant	
Management Districts	Natali Hurtado	International Management District	vacant	
Any	vacant		vacant	
Any	vacant		vacant	

TAC Nominations: Regional Transportation Plan

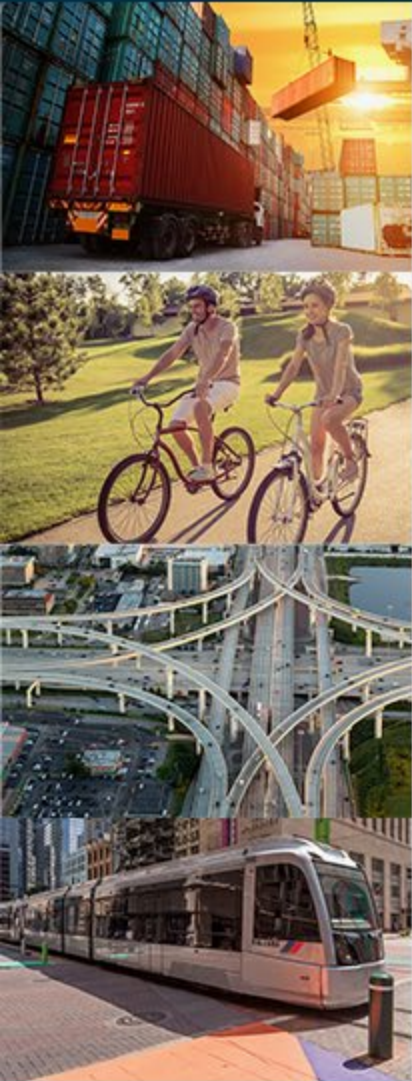
Nominated Position	Primary-Name	Organization	Alternate-Name	Organization
Active Transportation	Joe Cutrufo	BikeHouston	Nikki Knight	Southeast Management District
Business Interest	Elijah Williams	Energy Corridor District	Elizabeth Whitton	Energy Corridor District
Citizen Interest	Peter Eccles	LINK Houston	Dexter Handy	Citizen Transportation Coalition
Environmental	Harrison Humphreys	Air Alliance Houston	Amy Skicki	BAYTRAN
Local Government	Monique Johnson	City of Sugar Land	Marcus Snell	City of Missouri City
Local Government	David Fields	City of Houston	Ian Hlavacek	City of Houston
Local Government	Kimberly Judge	City of Dayton	Shashi Kumar	City of Missouri City
Local Government	Timothy Smith	Harris County	vacant	
Local Government	Todd Stephens	The Woodlands Township	Ruthann Haut	The Woodlands Township
Local Government	Morad Kabiri	City of Friendswood	Jildardo Arias	City of Friendswood
Local Government	Cara Davis	City of League City	Christopher Sims	City of League City
Local Government	Jameson Appel	City of Pearland	Yolci Ramirez	City of Pearland
Local Government	Perri D'Armond	Fort Bend County	Stacy Slawinski	Fort Bend County
Planning	Katherine Parker	Gulf Coast Rail District	Katherine Summerlin	City of Houston
Port	Bruce Mann	Port Houston	Rohit Saxena	Port Houston
Port	Mike Wilson	Port Freeport	Jason Miura	Port Freeport
State	Charles Airiohoudion	TxDOT Houston District	Jeffrey English	TxDOT Houston District
State	vacant	TxDOT Beaumont District	vacant	TxDOT Beaumont District
Transit	Ken Fickes	Harris County Transit	Vernon Chambers	Harris County Transit
Transit	Sean Middleton	Gulf Coast Rail District	vacant	
Transit	Albert Lyne	METRO	Rachel Die	METRO
Toll Road	Brian Alcott	HCTRA	vacant	
Airport	vacant		vacant	

TAC Nominations: Regional Transit Coordination

Nominated Position	Primary-Name	Organization	Alternate-Name	Organization
Local Government	vacant		vacant	
Local Government	Melanie Beaman	City of Sugar Land	Monique Johnson	City of Sugar Land
Local Government	vacant		vacant	
Business Interests	Tandelyn Weaver	Lift Fund/TIRZ 9 South Post Oak	vacant	
Citizens Interests	Philip Salerno	Greater Inwood Super Neighborhood	Charles Noble	Fontaine Place and Scenic Woods Civic Club
Social Services/HHS	Alan Watkins	Houston Housing Collaborative	vacant	
Social Services/HHS	vacant		vacant	
Social Services/HHS	vacant		vacant	
Social Services/HHS	vacant		vacant	
Transit Agency	Ruthanne Haut	The Woodlands Township	vacant	
Transit Agency	Shain Eversly	METRO	Tatyana Luttschlager	METRO
Transit Agency	Vernon Chambers	Harris County Transit	Shekeylia Douglas	Harris County Transit
Transit Agency	Perri D'Armond	Fort Bend County	Sarah Coulter	Fort Bend County
Transit Agency	vacant	City of Conroe	vacant	City of Conroe
Transit Agency	vacant	Brazos Transit District	vacant	Brazos Transit District
Transit Agency	vacant	Colorado Valley Transit	vacant	Colorado Valley Transit
Transit Agency	Sean Middleton	Gulf Coast Transit District	vacant	Gulf Coast Transit District
Transit Agency	vacant	Island Transit	vacant	Island Transit

Ex-Officio	Travis Madison	TxDOT Houston	Brenda Bustillos	TxDOT Houston
Ex-Officio	vacant	TxDOT Beaumont	vacant	TxDOT Beaumont

TAC Nominations: Transportation Improvement Program



Nominated Position	Primary-Name	Organization	Alternate-Name	Organization
Active Transportation	Patricia Kievlan	Bike the Woodlands	Veronica Chapa-Gorczyński	East End District
Local Government	David Wurdlow	City of Houston	Veronica Davis	City of Houston
Local Government	Morad Kabiri	City of Friendswood	Jildardo Arias	City of Friendswood
Local Government	Monique Johnson	City of Sugar Land	Melanie Beaman	City of Sugar Land
Local Government	Patrick Mandapaka	Harris County	Susan Fraser	Harris County
Local Government	John McGowan	The Woodlands Township	Ruthanne Haut	The Woodlands Township
Local Government	Robert Reynolds	City of Cleveland	vacant	
Local Government	Rajendra Shrestha	City of Pearland	Trent Epperson	City of Pearland
Local Government	Christopher Sims	City of League City	Cara Davis	City of League City
Local Government	Stacy Slawinski	Fort Bend County	Rick Staigle	Fort Bend County
Local Government	Yancy Scott	Waller County	vacant	
Local Government	vacant		vacant	
Local Government	vacant		vacant	
Local Government	vacant		vacant	
Planning	Sherry Weesner	TIRZ 5/Memorial Heights Redevelopment	Gabe Cazares	LINK Houston
Port	Bruce Mann	Port Houston	Rohit Saxena	Port Houston
Port	vacant		vacant	
State	Catherine McCreight	TxDOT Houston District	James Koch	TxDOT Houston District
State	vacant	TxDOT Beaumont District	vacant	TxDOT Beaumont District
Transit Agency	Ken Fickes	Harris County Transit	Vernon Chambers	Harris County Transit
Transit Agency	Alan Clark	METRO	Clint Harbert	METRO
Transit Agency	Perri D'Armond	Fort Bend County	Pamela LeBrane	Fort Bend County

TAC Nominations: Transportation Air Quality



Nominated Position	Primary-Name	Organization	Alternate-Name	Organization
Environmental/Public Interests/TDM	Gwen Goodwin	TSU Center for Transportation	vacant	
Environmental/Public Interests/TDM	Dexter Handy	Citizens Transportation Coalition	Carol Caul	Citizens Transportation Coalition
Environmental/Public Interests/TDM	Harrison Humphreys	Air Alliance Houston	Stefania Tomaskovic	Coalition for Environment, Equity & Resilience (CEER)
H-GAC	Andrew DeCandis	H-GAC	vacant	
H-GAC	vacant		vacant	
Local Government	Perri D'Armond	Fort Bend County	Tom Kuczynski	Fort Bend County
Local Government	Ken Fickes	Harris County Transit	Thien Cao	Harris County Transit
Local Government	vacant		vacant	
Local Government	vacant		vacant	
Local Government	vacant		vacant	
Port	Kenneth Gathright	Port Houston	Mike Wilson	Port Freeport
Professional/Private	Amy Skicki	BAYTRAN	vacant	
Professional/Private	Meredith Jennings	Houston Advanced Research Center	vacant	
Professional/Private	vacant		vacant	
State	Charles Airiohuodion	TxDOT Houston	Qing Li	TxDOT Houston
State	vacant	TxDOT Beaumont	vacant	TxDOT Beaumont
TCEQ	vacant		vacant	
Transit Agency	Ruthanne Haut	The Woodlands Township	Nicole Mathews	The Woodlands Township
Transit Agency	Edmund Petry	METRO	Vincent Sanders	METRO

TAC Nominations: Transportation Systems Management and Operations



Nominated Position	Primary-Name	Organization	Alternate-Name	Organization
Local Government	Mustaque Rumi	METRO	Ken Brown	METRO
Local Government	Jason Abila	City of Missouri City	vacant	
Local Government	Cara Davis	City of League City	Christopher Sims	City of League City
Local Government	Chris Debaillon	Fort Bend County	Anthony Villa Real	Fort Bend County
Local Government	Richard Goodman	Harris County	Kristian Heighway	Harris County
Local Government	Yolci Ramirez	City of Pearland	Rajendra Shrestha	City of Pearland
Local Government	James Turner	City of Sugar Land	Jason Vaughn	City of Sugar Land
Local Government	vacant		vacant	
Local Government	vacant		vacant	
Local Government	vacant		vacant	
Local Government	vacant		vacant	
Port	Bruce Mann	Port Houston	Rohit Saxena	Port Houston
Port	vacant		vacant	
State	Ugonna Ughanze	TxDOT Houston	Valerie Taylor	TxDOT Houston
State	vacant		vacant	
Transit Agency	David Jones	Harris County Transit	Stephanie Albertson	Harris County Transit
Transit Agency	Sean Middleton	Gulf Coast Transit District	vacant	



Item 6. Amendments to the 2023-2026 TIP and 2045 RTP



Transportation Advisory Committee
March 15, 2023

TIP and RTP Amendments

- Program METRO's \$376K FTA Section 5309 Transit Oriented Development Planning grant (MPO ID 18884) for Tidwell Transit Center along University Corridor in FY 2023 (+\$470K)
- Program NNMD's \$1.0M Congressional FY 2022 Community Priorities earmark (MPO ID 18885) for Sharpstown Multi-Use Trail Phase-1 construction in FY 2023 (+\$1.3M)
- Clarify limit of TxDOT Houston District SH 99 Segment B construction (MPO ID 18872). Change sponsor to Brazoria County and delay to FY 2027 to further evaluate funding. (Total: \$604.9M)
- Clarify limit of TxDOT Houston District SH 99 Segment B construction (MPO ID 257). (Total: \$203.2M)

TIP and RTP Amendments

- Add \$24.0M STBG funding to TxDOT Houston District SH 99 Segment D (MPO ID 18022) for sound walls, frontage road intersections and detention ponds (+\$24.0M; \$83.0M)
- Add \$6.4M STBG funding to TxDOT Houston District SH 99 Segment D (MPO ID 18021) for sound walls & frontage road intersection improvement at Kingsland Blvd (+\$6.4M; \$26.5M)
- Add ROW as authorized phase with \$1.7M federal ROW funding to TxDOT Houston District FM 517 widening (MPO ID 16320) per TxDOT ROW Division policy (+\$1.7M; \$16.2M)
- Add ROW as authorized phase with \$12.5M federal ROW funding to TxDOT Houston District FM 518 widening (MPO ID 10132) per TxDOT ROW Division policy (+\$12.5M; \$53.7M)

TIP and RTP Amendments

- Add ROW as authorized phase with \$1.1M federal ROW funding to TxDOT Houston District SL 336 widening (MPO ID 16343) per TxDOT ROW Division policy (+\$1.1M; \$21.2M)
- Update description of TxDOT Houston District IH 45 S widening (MPO ID 282) to include 61st Street direct connector from City of Galveston MPOID 15490. (Total Cost: \$108.6M)
- Update description of TxDOT Houston District SL 8 frontage road access management project (MPO ID 18035) to resolve STIP Exception. (Total Cost: \$9.M)
- Advance TxDOT Houston District SH 99 Segment B-1 construction (MPO ID 283) to FY 2025 to coordinate letting with adjacent SH 99 project MPO ID 257. (Total: \$257.0M)

TIP Budget Effects

Proposed March 2023 TPC Amendments - TIP Budget Effects¹

	As of May 2022	As of February 2023	Proposed Amendments (March Action)	Programming as of March 2023 (Pending TPC Approval)
Total Federal Funding Programmed				
Category 2 - Metro and Urban Area Corridors	\$1,453,610,240	\$1,113,706,072	\$0	\$1,113,706,072
Category 5 - Congestion Mitigation Air Quality (CMAQ)	\$604,869,695	\$609,437,568	\$0	\$609,437,568
Category 7 - Surface Transportation Block Grant (STBG)	\$795,981,665	\$836,983,611	\$30,400,000	\$867,383,611
Category 9 - Transportation Alternatives - Set Aside (TASA) Program	\$52,939,485	\$50,035,485	\$0	\$50,035,485

¹Includes Grouped and TIP status Project Fund Amounts.

Action

- Recommendation for TPC approval of Resolution 2023-14



Project Selection Process



Transportation Advisory Committee
March 15, 2023

Draft Statements of Interest Summary

Timeframe	# of Projects	Consider In PSP	Cost (\$B)
Short term (0-5 Years)	310	259	\$7.3
Medium term (6-10 Years)	192	141	\$15.6
Long term (> 10 Years)	120	61	\$10.1
Total	622	461	\$33

- Duplicate projects submitted
- New projects submitted

Short-Term Statements of Interest

Investment Category	# of Projects	Consider In PSP	Cost (\$B)
Regional Goods Movement	76	73	\$3.7
Operational Improvements & Congestion Management	179	164	\$5.9
High Growth Area Needs	165	153	\$5.8
Major Projects	17	15	\$4.9
Active Transportation	141	125	\$3.5
Transit	107	93	\$3.5
Resiliency & State of Good Repair	137	123	\$3.2
Safety	208	189	\$4.6
Total	310	259	\$7.3

Medium-Term Statements of Interest

Investment Category	# of Projects	Consider In PSP	Cost (\$B)
Regional Goods Movement	57	53	\$9.8
Operational Improvements & Congestion Management	79	71	\$11.4
High Growth Area Needs	116	116	\$15.6
Major Projects	49	39	\$12.4
Active Transportation	67	61	\$3.5
Transit	51	45	\$10.9
Resiliency & State of Good Repair	46	39	\$4.5
Safety	89	81	\$7.7
Total	192	141	\$15.6

Long-Term Statements of Interests

Investment Category	# of Projects	Consider In PSP	Cost (\$B)
Regional Goods Movement	21	18	\$5.2
Operational Improvements & Congestion Management	53	46	\$8.7
High Growth Area Needs	51	47	\$7.4
Major Projects	48	29	\$8.9
Active Transportation	14	11	\$1.0
Transit	31	24	\$5.4
Resiliency & State of Good Repair	21	17	\$2.1
Safety	40	36	\$5.7
Total	120	61	\$10.1

Short-Term Regional Goods Movement

Requested Outcome	Consider In PSP	Cost (\$M)	Can Let in Next 3 Years	Cost (\$M)
Planning Activities	2	\$48.9	1	\$2.3
Development Only	2	\$1.2	2	\$1.2
Development & Construction	36	\$630	19	\$134
Construction	33	\$3,062	25	\$2,552
Total	73	\$3,742	47	\$2,670

Short-Term Regional Goods Movement

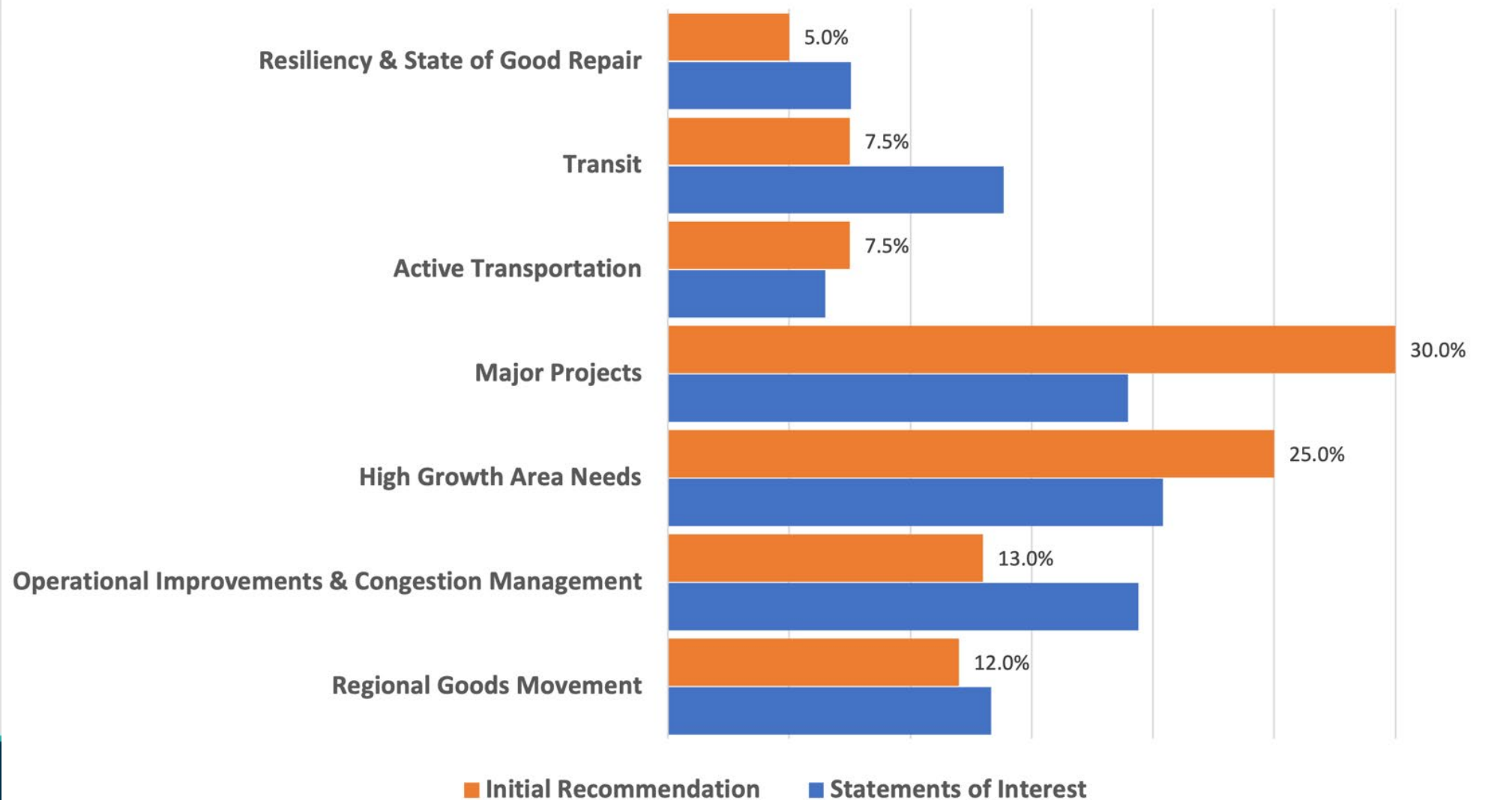
Investment Category	Consider In PSP	Cost (\$M)
Added Capacity	22	\$823
Reconstruct, Retrofit & Road diets	14	\$475
Direct Connectors & Grade Separations	4	\$196
Construct/Reconstruct Container Yards	3	\$191
Intersection/Traffic Signal Improvements and ITS	24	\$133
Major Projects (> \$100M)	6	\$1,924
Total	73	\$3,742

Draft Funding Instructions

Investment Category	Initial Recommendation	Statements of Interest
Regional Goods Movement	12%	13.3%
Operational Improvements & Congestion Management	13%	19.4%
High-Growth Area Needs	25%	20.4%
Active Transportation	7.5%	6.5%
Transit	7.5%	13.8%
Major Projects	30%	19.0%
Resiliency & State of Good Repair	5%	5%
Safety **	<i>TBD; ~\$30M/year</i>	<i>TBD</i>

Draft Funding Instructions

Potential Funding Recommendations



Regional Goods Movement

Investment Category Focused Criteria	Max 50 Pts
Project is recommended as a priority in a statewide, regional or a local freight plan.	Up to 10 Pts
Project is located on critical urban/rural freight corridor (CUFC/CRFC) or regional freight corridor or on a facility that carries significant daily truck traffic (truck %).	Up to 10 Pts
Narrative explaining how proposed project improve regional goods movement.	Up to 5 Pts
Project provides new or improves existing first-mile last-mile connectivity to Ports/airports or other freight generators (such as big box store, warehouses, etc.).	Up to 10 Pts
Project sponsor is considering strategies to promote off-peak and overnight delivery.	Up to 5 Pts
Project is located on a designated hurricane evacuation route by state, regional or local hurricane evacuation plans or a facility that functions as an alternative route to a hurricane evacuation route.	Up to 10 Pts

Regional Goods Movement

Benefits to Other Investment Categories	Max 20 Pts
Narrative explaining how the proposed project will improve daily traffic operations (Truck only lanes, interchange, intersection improvements, etc.)	Up to 6 Pts
Narrative explaining how the proposed project will benefit high growth area needs (Project addressing economic development, expansion of ports, new land-use development, etc)	Up to 5 Pts
Narrative explaining how the proposed project will improve walking and or biking conditions	Up to 2 Pts
Narrative explaining how the proposed project will improve traffic conditions for transit users	Up to 3 Pts
Narrative explaining how the proposed project will reduce inoperability for significant periods due to infrastructure damaged by collision with vehicles such as trucks, ships and barges. And Narrative explaining how the proposed project improves the state of good repair and extends the service life of the facility.	Up to 4 Pts

Planning Factors Scoring Elements

Planning Factor	Scoring Elements
Safety	<ul style="list-style-type: none">• Historic fatality and severe injury crash rates within a 0.1 mile buffer of the proposed project location (quantitative data)• Potential fatality and severe injury crash rates (quantitative data as well as qualitative (sponsor narrative))
Resiliency	<ul style="list-style-type: none">• Criticality of the street/highway facility where proposed project is located (high/medium/low score from the Regional Resiliency Tool as well as qualitative descriptions (sponsor narrative))• Vulnerability of proposed project location to flooding of street/highway facility (high/medium/low score from regional resiliency tool as well as qualitative descriptions (sponsor narrative))• Proposed reduction of vulnerability to flooding of the street/highway facility where proposed project is located (qualitative (sponsor narrative))
Access/Connectivity	<ul style="list-style-type: none">• Improvement to accessibility and connectivity of existing and planned land uses (as documented by official city or county future growth plans) to jobs, medical facilities, schools, colleges, and social services after the proposed project is implemented/constructed (quantitative as well as qualitative (sponsor narrative))• Improvements to accessibility and connectivity to low-income and minority households

Planning Factors Scoring Elements

Planning Factor	Scoring Elements
Environmental Justice	<ul style="list-style-type: none">• Number of low-income and minority households within a ¼ mile buffer of the project location (quantitative)• Sponsor narrative explaining how the proposed project provides benefits to vulnerable populations• Sponsor narrative explaining how the proposed project avoids or mitigates adverse effects to vulnerable populations
Impact on Cultural/Natural Resources	<ul style="list-style-type: none">• Potential NOx (Nitrogen Oxides) and VOC (Volatile Organic Compounds) emissions reductions as a result of the proposed project (quantitative)• Sponsor narrative explaining how proposed project avoids or mitigates impacts to natural or cultural resources such as historical sites, archeological sites, flood plains, wetlands
Innovation	<ul style="list-style-type: none">• Implementation of new infrastructure or technologies intended to enhance accessibility, mobility, multimodalism, resiliency, or reliability, or traffic operations. Installation of new technology such as autonomous/connected vehicle technology

Next Steps Regional Goods Movement

- Provided detailed criteria to TIP Subcommittee
- Staff will publish the RGM criteria on our website
- Email potential sponsors criteria questionnaire for RGM projects 03/27/23
- Responses to be emailed back to H-GAC by 04/14/23
- Evaluate criteria responses and scoring 4/17/23-5/5/23

Investment Categories

Investment Category	Description
Regional Goods Movement	Roadway projects that are located on highways classified as CUFC or CRFC or intermodal connectors; Projects proposed on roadways that provide connectivity to large warehouses, big box stores etc.; Projects located on facilities with high truck volumes
Operational Improvements & Congestion Management	Projects that reduce congestion and reduce travel delay (Including HOV expansions and BRT projects)
High-Growth Area Needs	Development of facilities that will avoid future congestion in high-growth areas; Projects that address safety, congestion, or multimodalism in high growth areas; Projects that promote coordinated planning in high growth areas and support continued economic development
Active Transportation	On and off-road bicycle & pedestrian projects that facilitate essential trip making including universal accessibility projects for transit
Transit	All transit projects (may include HOV expansions and BRT)
Major Projects	All projects with an estimated cost of \$100 million or more **
Resiliency & State of Good Repair	Projects focused on resiliency improvements and extending useful life of the facility (Details TBD pending full PROTECT guidance)
Safety **	Projects focused solely on safety improvements in high crash areas (details TBD pending recommendations of Safety Task Force)

Scoring Point Distribution

Scoring Factor	Investment Category					
	Regional Goods Movement	Operational Improvements	High-Growth Area Needs	Active Transportation	Transit	Resiliency & SOGR
Regional Goods Movement	50	4	3	3	3	5
Operational Improvements	6	50	4	4	3	5
High-Growth Area Needs	5	4	50	4	4	5
Active Transportation	2	3	4	50	5	5
Transit	3	4	5	5	50	5
Resiliency & State of Good Repair	4	5	4	4	5	50
Planning Factors	30	30	30	30	30	30
TOTAL POINTS	100	100	100	100	100	100

Planning Factors Point Distributions

Planning Factor	Investment Category					
	Regional Goods Movement	Operational Improvements	High-Growth Area Needs	Active Transportation	Transit	Resiliency & SOGR
Safety	7	7	7	7	7	7
Resiliency	5	5	5	5	5	5
Access/Connectivity	5	5	5	5	5	5
Environmental Justice	5	5	5	5	5	5
Impact on Cultural/Natural	5	5	5	5	5	5
Innovation	3	3	3	3	3	3
Planning Factors Total	30	30	30	30	30	30
TOTAL POINTS	100	100	100	100	100	100
Screening Factor						
Planning Coordination						

Operational Improvements & Congestion Management

Investment Category Focused Criteria	Max 50 Pts
Existing congestion (Proposed project located on a facility listed on Texas 100 most congested list TTI > 2.0) and Narrative explain how proposed project alleviates congestion	Up to 10 Pts
Proposed project eliminates at-grade intersection or at grade railroad crossing	Up to 10 Pts
Proposed ITS expansion, intersection improvements (turn lanes), access management, traffic signal coordination etc.	Up to 10 Pts
Proposed HOV expansions, express bus routes, signature routes, BOOST treatments	Up to 10 Pts
Project is located on a designated hurricane evacuation route by state, regional or local hurricane evacuation plans or a facility that functions as an alternative route to a hurricane evacuation route.	Up to 10 Pts

Operational Improvements & Congestion Management

Investment Category Focused Criteria	Max 50 Pts
Existing congestion (TTI) (Quantitative)	Up to 10 Pts
Improvement (TTI) (Quantitative)	Up to 10 Pts
Congestion management strategy narrative (Qualitative)	Up to 20 Pts
Project improves hurricane evacuation (Qualitative)	Up to 10 Pts

Operational Improvements & Congestion Management

Benefits to Other Investment Categories	Max 20 Pts
Narrative explaining how the proposed project will improve regional goods movement	Up to 4 Pts
Narrative explaining how the proposed project will benefit high growth area needs (Project addressing economic development, expansion of ports, new land-use development, etc)	Up to 4 Pts
Narrative explaining how the proposed project will improve walking and or biking conditions	Up to 3 Pts
Narrative explaining how the proposed project will improve traffic conditions for transit users	Up to 4 Pts
Narrative explaining how the proposed project will reduce inoperability for significant periods due to infrastructure damaged by collision with vehicles such as trucks, ships and barges. And Narrative explaining how the proposed project improves the state of good repair and extends the service life of the facility.	Up to 5 Pts

Regional Goods Movement

Planning Factors	Max 20 Pts
Safety	Up to 7 Pts
Resiliency	Up to 5 Pts
Access/Connectivity	Up to 5 Pts
Environmental Justice	Up to 5 Pts
Impact on Cultural/Natural	Up to 5 Pts
Innovation	Up to 3 Pts
Total	30 Pts

Next Steps

- Consolidated initial screening (on going)
 - ALL Statements of Interest screened for relevance to ALL Investment Categories
 - Based on investment category definitions
- Develop/Approve Funding Instructions – April 2023
- Regional Goods Movement Scoring Criteria Published – March 2023
- Initiate First Selection Process

Action

- Information and discussion only



Air Quality Conformity & RTP Update Phase 3 Public Outreach



Graciela Lubertino, PhD

Transportation Plans



- **Regional Transportation Plan:** is the long-term transportation plan for the region ~ 20 years
- **Transportation Improvement Program:** is the short-term transportation plan for the region, first 4 years

Both need to be fiscally constrained

Air Quality Status

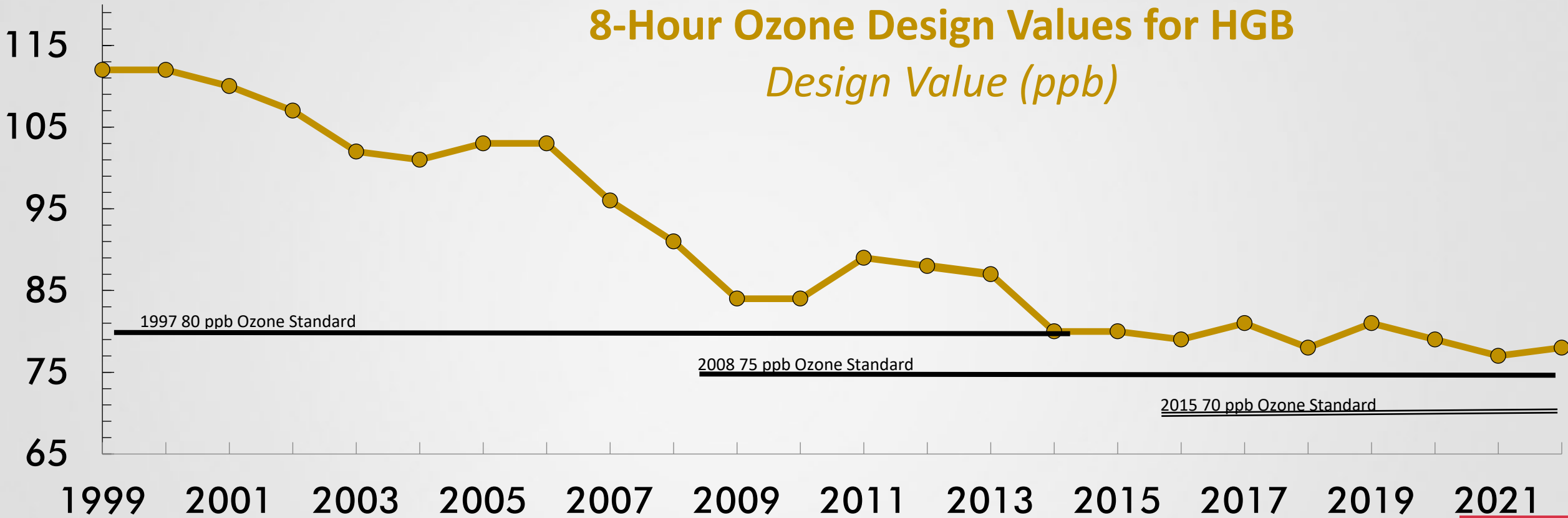
- Our region is in nonattainment for the 8-hr Ozone Standard

Classification:

Severe for the 2008 8-hr Ozone standard (75 ppb)

Moderate for the 2015 8-hr Ozone standard (70 ppb)

Air Quality in Houston Region



What is Conformity?

- Process that links the air quality State Implementation Plan with the regional roadway planning
- Ensures that transportation plans do not delay attainment of National Ambient Air Quality Standard



The SIP
(State Air
Quality
Plan)

conformity

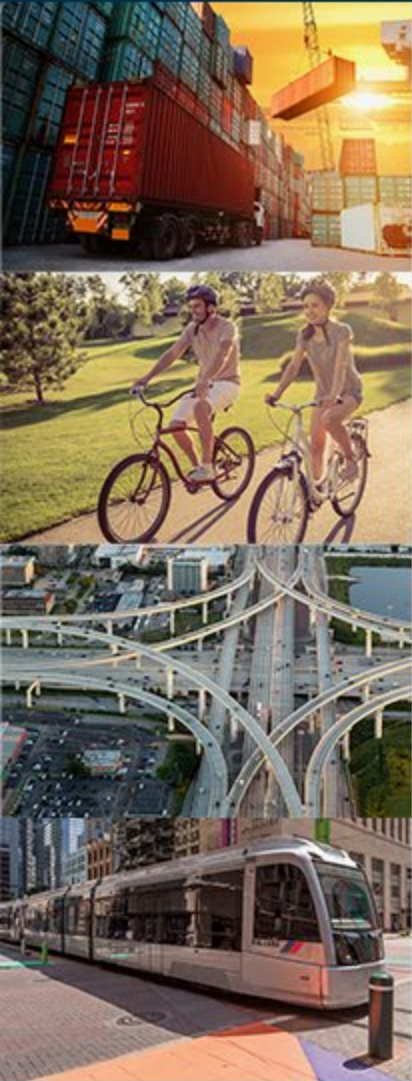
Transportation
Plan, and
Transportation
Improvement
Program (TIP)

Emission Budgets

- The emissions of transportation plans must conform to the emission budgets from the Air Quality State Implementation Plan
- Latest approved emission budgets:
Reasonable Further Progress budget for mobile sources found adequate by EPA June 9, 2021 – Serious classification

RFP Demonstration Budget (tons/day)		
Year	NOx	VOC
2020	87.69	57.70

NOx- Nitrogen Oxides
VOC-Volatile Organic Compounds



Reason for Conformity Determination

- The 2045 RTP Update and amendments to 2023-2026 TIP
- Full project list found in Appendix 3



Conformity Requirements

- Use of the latest planning assumptions
- Latest emission model approved by EPA – MOVES3.1
- Interagency consultation (EPA, FHWA, TCEQ, TxDOT, METRO)
- Public comment period
- Timely implementation of control measures
- It is demonstrated when projected regional emissions from the RTP do not exceed the region's motor vehicle emissions budgets stated in the Air Quality SIP



Calculations

Years selected:

- 2023 – attainment year for 2015 8 hr. Ozone Standard
 - 2026 – attainment year for 2008 8 hr. Ozone Standard
 - 2030 and 2040 – intermediate years
 - 2045 – horizon year
-
- Latest Planning available data: new compliance factors for I/M programs, adjustment factors and fuel data.
 - Air quality model: EPA MOVES3.1

MOVES3.1

Accounts for the implementation of the following new regulations:

- Greenhouse Gas Emissions and Fuel Efficiency Standards for Medium- and Heavy-Duty Engines - Phase 2
- Safer Affordable Fuel Efficient (SAFE) Vehicles Rule



Draft Air Quality Conformity Results

Conformity Analysis Results versus Emission Budgets from RFP SIP Serious Classification For 2008 8-hr Ozone Standard

Year	NOx Budget (tons/day)	NOx Emissions (tons/day)	VOC Budget (tons/day)	VOC Emissions (tons/day)	VMT
2023	87.69	59.17 ✓	57.70	33.39 ✓	207,127,974
2026	87.69	48.85 ✓	57.70	28.73 ✓	218,020,232
2030	87.69	43.14 ✓	57.70	25.32 ✓	237,879,429
2040	87.69	42.24 ✓	57.70	22.51 ✓	279,828,518
2045	87.69	44.57 ✓	57.70	22.75 ✓	298,902,646

NOx- Nitrogen Oxides

VOC-Volatile Organic Compounds

VMT-Vehicle Miles Traveled



Proposed Timeline

- ✓ **December 7, 2022:** Coordination with agency partners/TAC and TPC announcement to start new conformity – Pre-Con consensus document
- ✓ **January 2023:** Review for model networks and Pre-Analysis Consensus document
- ✓ **January 2023:** Travel demand model runs
- ✓ **February 2023:** Air quality model runs
- **March 2023:** TAC and TPC preview. Conformity documentation
- **March/April:** Public comment period (March 15- April 17)– Public meeting: March 21st
- **April 2023:** Public comment responses. TAC/TPC approval
- Receive Federal Approval – 3 months later
- <https://www.h-gac.com/transportation-conformity/2023>

2045 Regional Transportation Plan Update



Because life is better when we all work and thrive together!

Public Outreach - Phase 3 Public Review Period

Agenda



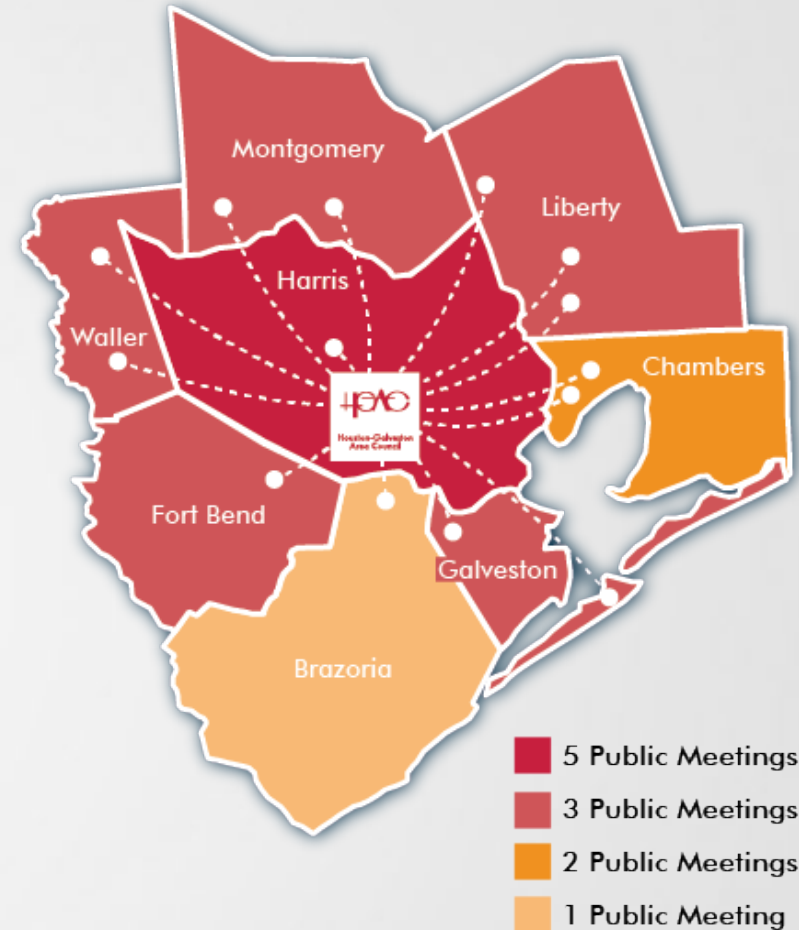
- Timeline
- What outreach have we done?
 - Accomplishments
 - Opportunities
- Final phase of outreach
 - Goals
 - Strategy
 - Schedule of events
 - Public comment intake portal

Timeline



What Outreach Has Been Done?

- Number of public meetings – 16
- Special interest group/ stakeholder presentations -17
- Interactive mapping exercise
- Online survey
- Visitors to project website – 16.6 K



Outreach – Accomplishments

- In-person & virtual
- Engaged local officials
- Community Leader Champions



Outreach – Opportunities

- Demographic groups HIGHER than regional split:
 - Galveston County
 - White racial category
 - Household income over \$100,000 category
- Demographic groups LOWER than regional split:
 - Fort Bend County totals
 - Black or African American racial category
 - Household income less than \$30,000 category
 - Under 25 years old category

Goals for Phase 3 Outreach

- Drive target audience to project website and read RTP 2045 update
- Encourage submission of public comment(s) virtually or by email
- Educate public on what the RTP 2045 update is and how it impacts our region

Phase 3 Outreach Strategy

Tier 1

Everyone receives a toolkit to easily share & disseminate
Can request printed items, or for team to present at meeting

Tier 2

Presenting to H-GAC sub-committees &
special interest groups

Tier 3

Attend events of regional importance

Tier 4

Digital marketing campaign

Sub-Committee & Stakeholder Meetings

- February 2 - Transportation System Management & Operations Sub-Committee
- February 9 - Regional Transit Coordination Subcommittee
- February 15 - Transportation Advisory Committee
- February 15 - Houston Minority Business Suppliers
- February 24 – Transportation Policy Council
- March 1 - Transportation Air Quality Sub-Committee
- March 21 - Virtual Public Meeting
- March 21 - Waller Economic Development
- March 21 - H-GAC Board of Directors Meeting
- April 5 - Transportation Improvement Program Sub-Committee
- April 13 - BAYTRAN

Events in MPO Region

- *March 18 - Market Days at Lake Jackson*
- *March 19 - Houston Rodeo*
- *April 1 - Annual Car Show & Family Fun Day Magnolia**
- *April 1 – Mont Belvieu Market at the Park*
- *April 4 – 8 - Sugar Land Space Cowboys**
- *April 8 Cleveland Livestock Show & Rodeo*
- *April 13 - Gulf Coast Days**

Intake of Public Comments



- Submit through Engage project page
- Email: publiccomments@h-gac.com

Submit Public Comment

Survey starts Finish

All fields marked with an asterisk (*) are required.

1. Please provide your first and last name *

Please add your comment here... 0/50

2. Email address *

3. Which of the following are you submitting a public comment on behalf of? (Choose one) *

Choose an option

Contact Information



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ITEM 10. 2023 Regional Public Transportation Agency Safety Performance Measures



Transportation Advisory Committee
March 15, 2023

Public Transit Agency Safety Plan (PTASP)



Background Information

- Transit agencies are required by Federal Transit Administration (FTA)
- Tier 1 (METRO and Island Transit)
- Tier 2 (all others)
- Staff coordinate with transit providers to analyze data and form draft recommendations for regional measures

Category Definitions

Fatality – confirmed death within 30 days of a reported event

Injuries – requiring medical attention for two or more individuals

Safety Events – collision, derailment, fire, hazardous material spill, or evacuation

MDBF – mean distance between failures (Revenue Vehicles)

Tier I – METRO and Island Transit

Rates Per 100 K Vehicle Revenue Miles	Mode	2021 Measures	2021 Actuals	2023 Measures
Fatalities	Bus	0	4	0
Fatalities Rate		0	0.008	0
Injuries		194	203	175
Injuries Rate		0.258	0.426	0.425
Safety Events		136	265	136
Safety Events Rate		0.258	0.556	0.33
Mean Distance Between Failures		10,084	7,503	6,750
Fatalities	Paratransit	0	0	0
Fatalities Rate		0	0.000	0
Injuries		35	41	35
Injuries Rate		0.174	0.258	0.174
Safety Events		39	32	39
Safety Events Rate		0.19	0.202	0.289
Mean Distance Between Failures		22,039	25,346	21,000

Tier I – METRO and Island Transit

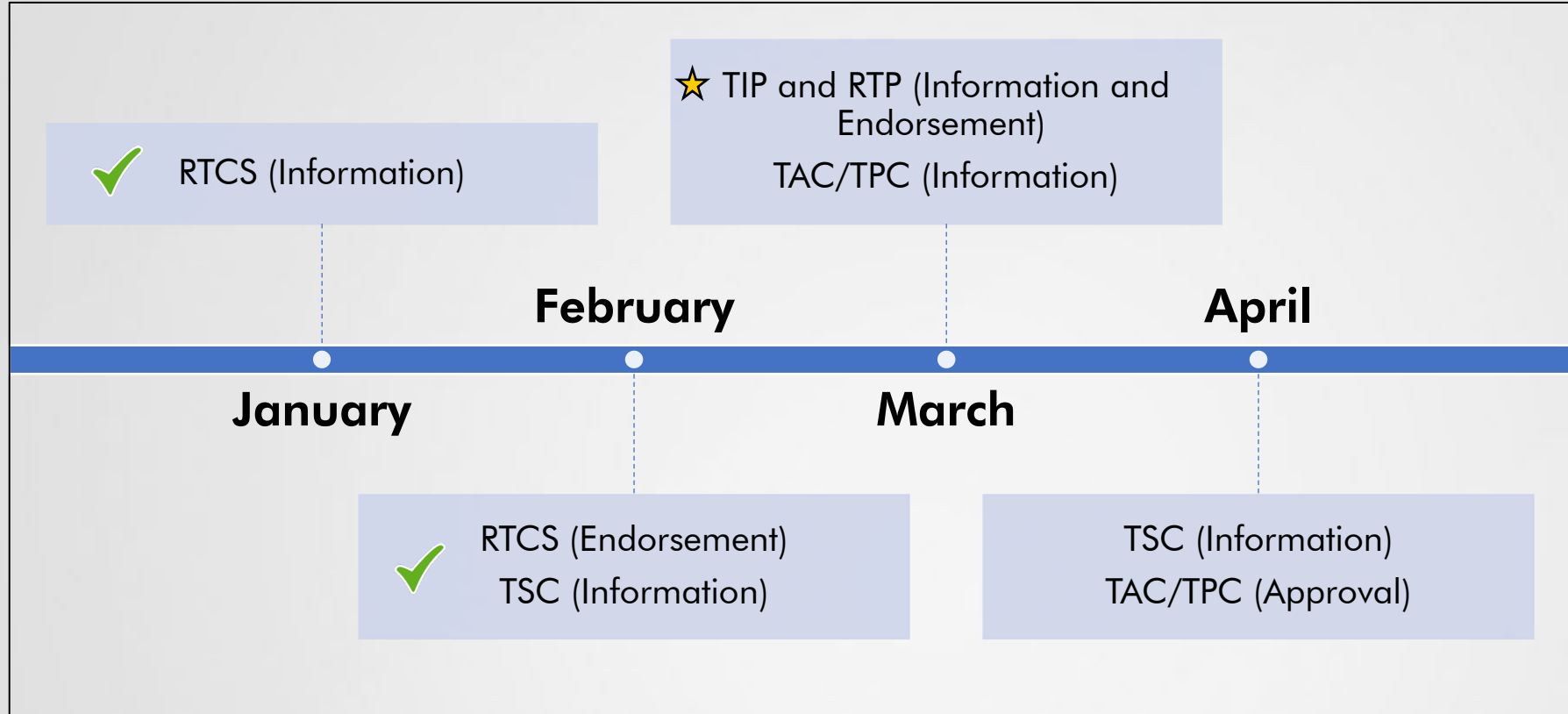
Rates Per 100 K Vehicle Revenue Miles	Mode	2021 Measures	2021 Actuals	2023 Measures
Fatalities	Rail	0	1	0
Fatalities Rate		0	0.032	0
Injuries		50	32	45
Injuries Rate		1.466	1.035	1.886
Safety Events		121	81	100
Safety Events Rate		3.51	2.62	4.715
Mean Distance Between Failures		9,292	17,975	15,000
Fatalities	Bus Rapid Transit	N/A	0	0
Fatalities Rate		N/A	0	0
Injuries		N/A	1	10
Injuries Rate		N/A	0.67	2.651
Safety Events		N/A	2	10
Safety Events Rate		N/A	1.339	2.651
Mean Distance Between Failures		N/A	5,417	4,000

Tier II Transit Agencies

Rates Per Vehicle Revenue Mile	Mode	2021 Measures	2021 Actual	2023 Measures
Fatalities	Fixed Route	0	0	0
Fatality Rates		0	0	0
Injuries		0.49	0	0.28
Injury Rates		0.0000008	0	0.0000010
Safety Events		0.82	0.04	0.53
Safety Event Rates		0.0000020	0.0000018	0.0000020
Mean Distance Between Failures		82,544	---	150,207
Fatalities	Demand Response	0	0	0
Fatality Rates		0	0	0
Injuries		1.34	3.58	1.68
Injury Rates		0.0000013	0.0000044	0.0000015
Safety Events		1.53*	1.80	1.90
Safety Event Rates		0.0000015	0.0000026	0.0000020
Mean Distance Between Failures		386,106	----	288,488

* Typographical error from 2021 Measures listed as 1.93

Timeline



RTCS- Regional Transit Coordination Subcommittee
RTP – Regional Transportation Plan Subcommittee
TAC – Transportation Advisory Committee

TIP – Transportation Improvement Program Subcommittee
TPC- Transportation Policy Council
TSC – Transportation Safety Committee



MOVING FORWARD PLAN

METRORapid Inner Katy Project

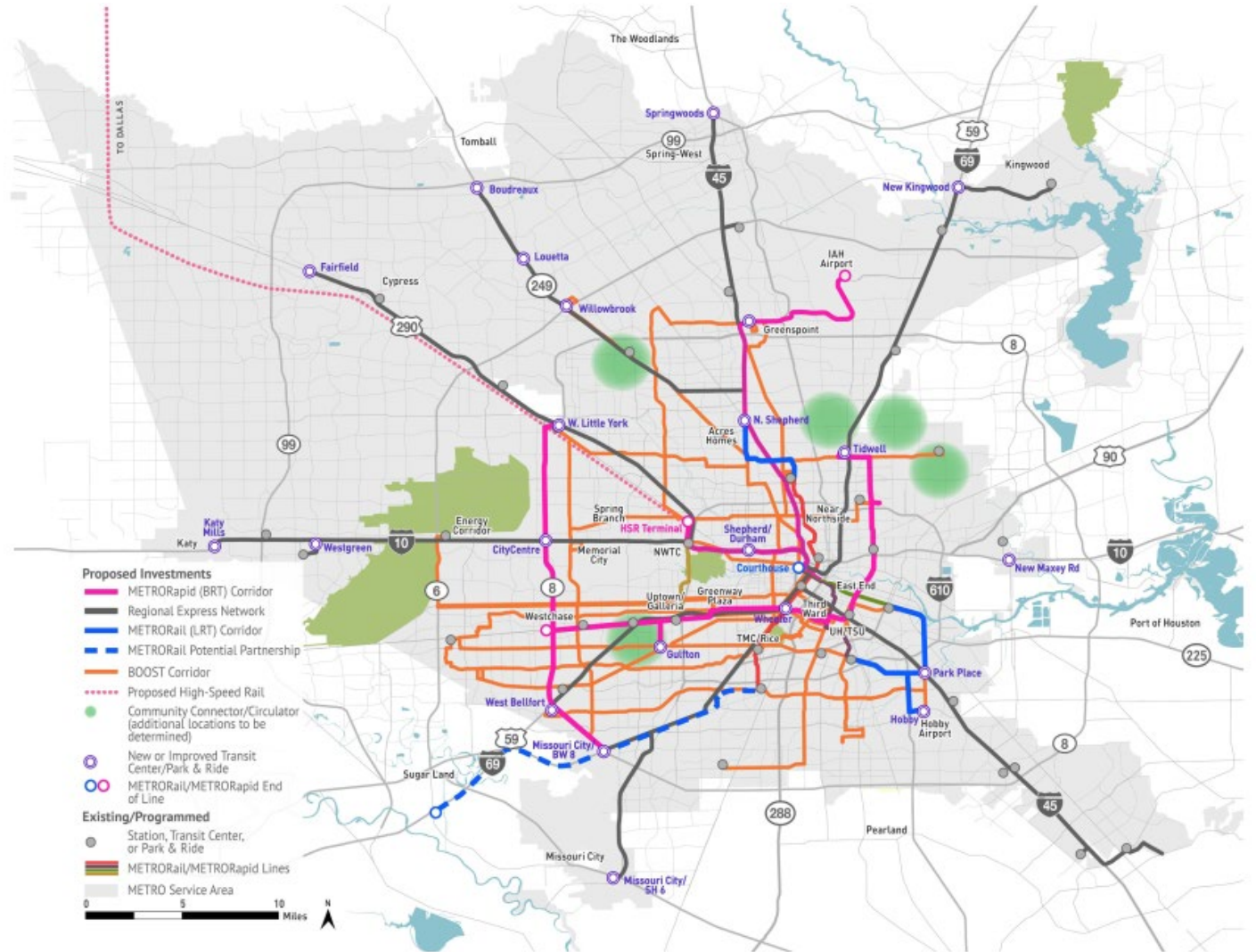
Houston-Galveston Area Council
Transportation Advisory Committee

March 15, 2023



METRORapid Inner Katy Project, 2019

- One of the new rapid transit corridors identified in the METRONext Plan
- Received funding through the H-GAC 2018 TIP Call for Projects
- Evaluated as the top project in the TIP
- Recognized as a high priority and regionally significant project by TPC



Project Benefits – Horizon Year (2045)



42,000

Daily Passenger Trips
carried on the Inner Katy guideway



19 min

BRT Travel Time
from NWTC to Downtown



25%

Regional Express Travel Time
savings on the Inner Katy guideway



50%

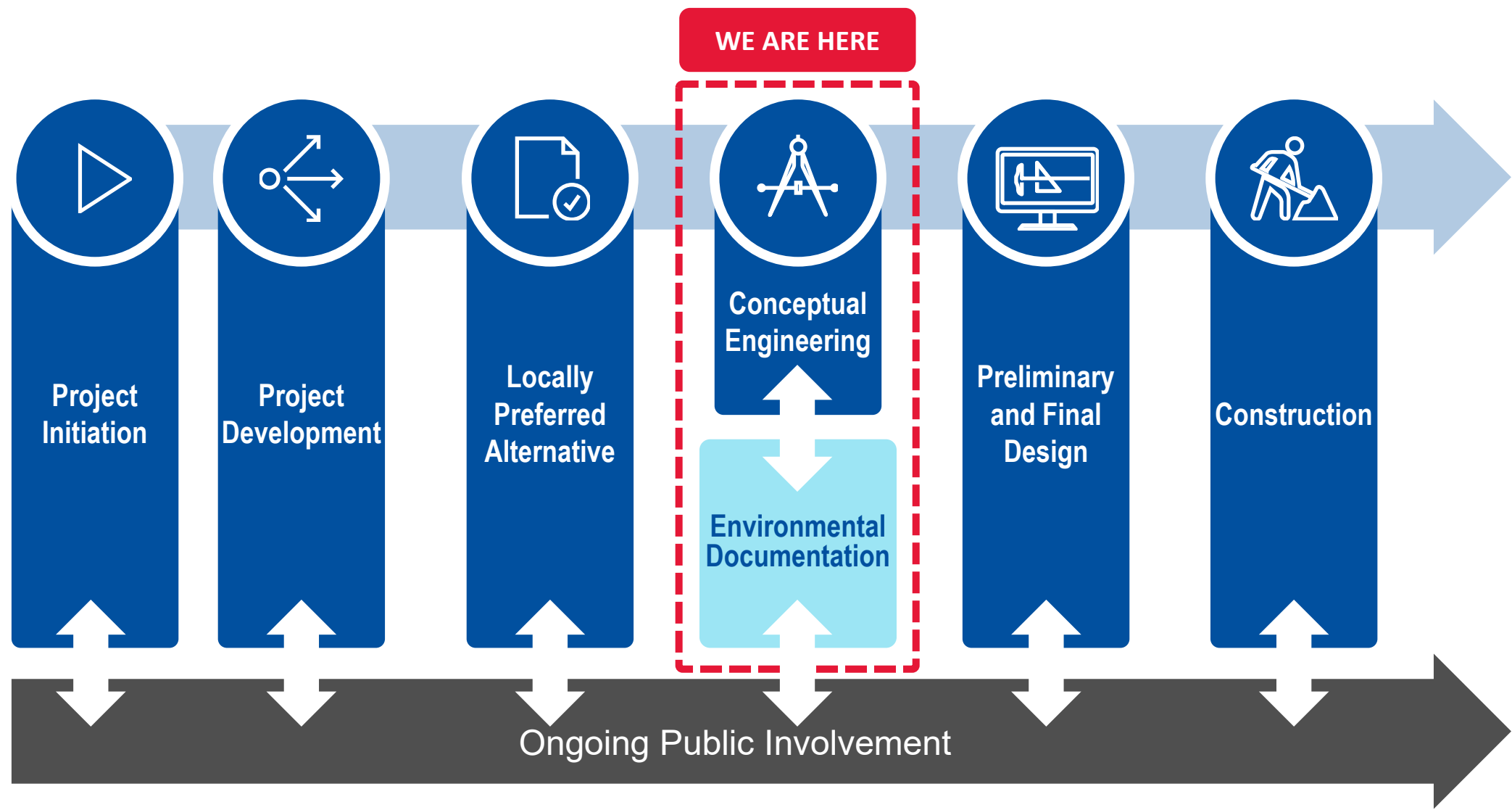
Daily Boardings
increase for Silver Line



80,000

Vehicle Miles Traveled
reduced daily

Project Development Process: 2019 - Today



Public Concern – Inner Katy Segment Stations

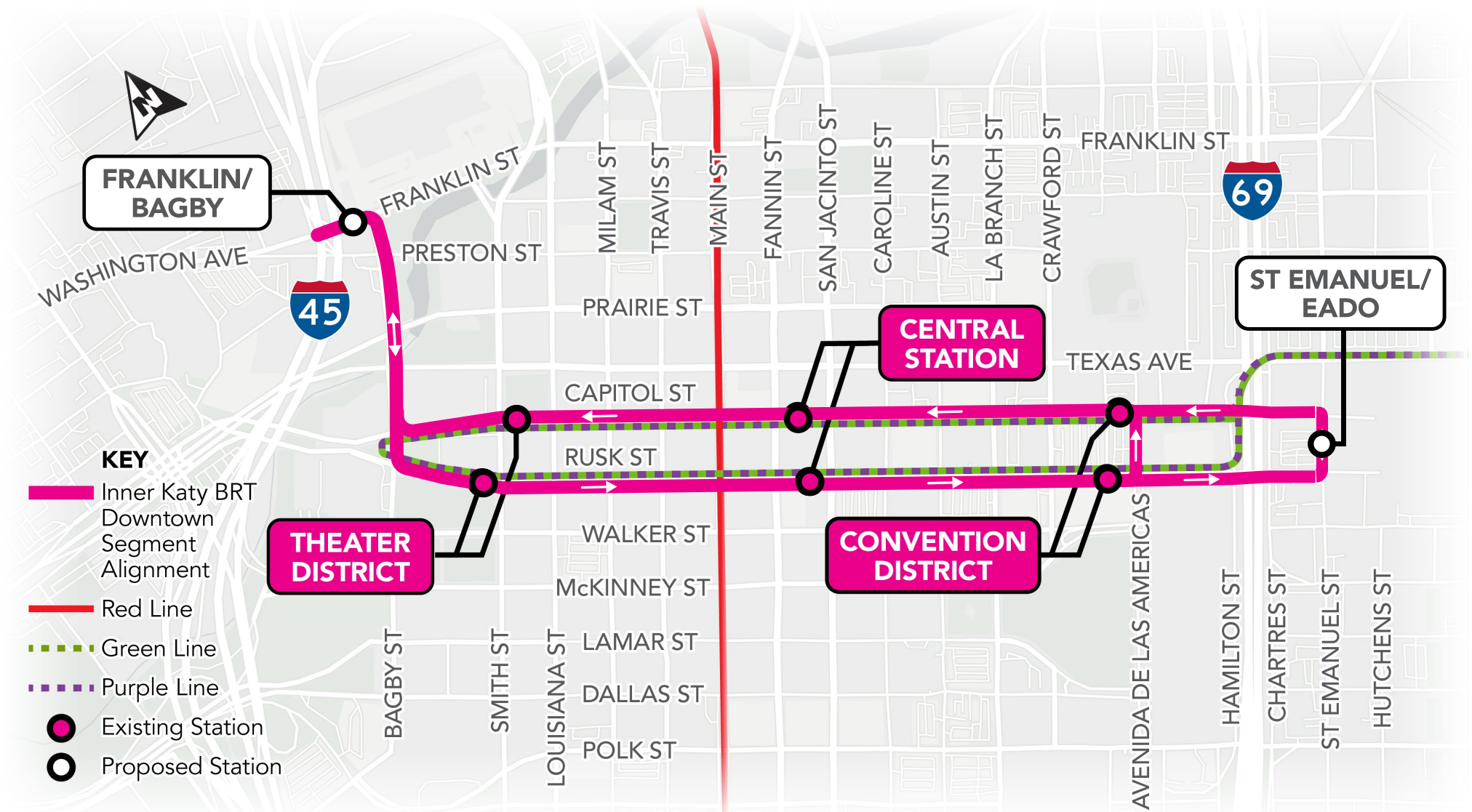


Memorial Park Station

METRORAPID INNER KATY PROJECT



Public Concern – Downtown Segment Stations



Franklin/Bagby Station

METRORAPID INNER KATY PROJECT



St. Emanuel/EaDo Station

METRORAPID INNER KATY PROJECT

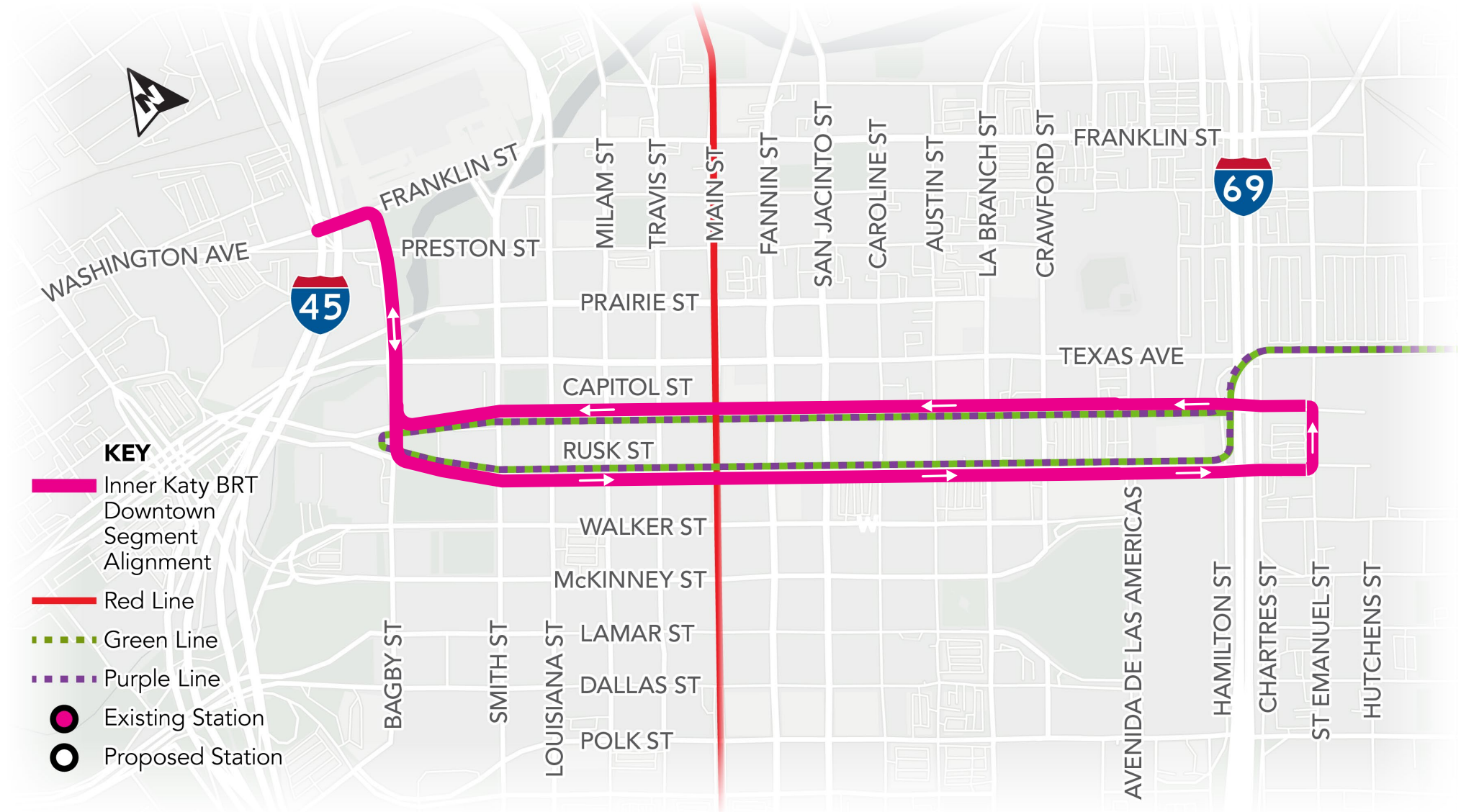




Eastern Terminus/Turnaround



Eastern Terminus/Turnaround

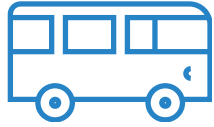




Safety Assessment



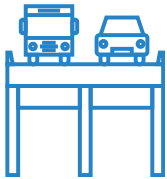
Safety Assessment of Exclusive Busway Operations



70 buses (60 RE and 10 BRT)/hour/inbound
> 40 recommended threshold



1,675 vehicle/hour/inbound; capacity ranges between 1,500 to 1,900 vehicle/hour/lane



Guideway expected to operate at LOS F with HOV in traffic stream



Stations located on the right instead of the center to minimize HOV traffic shifting lanes

Dedicated Transitway for BRT/Regional Express

- Maximizes safety throughout facility, with a focus on station locations
- Uses a smaller footprint
- Reduces risk of unsafe conditions
- Lower right-of-way requirements
- Lower construction costs
- Highest operational performance
- Minimizes environmental impacts
- Improves travel time and reliability for Regional Express buses
- Provides a fast connection between Uptown and Downtown
- Promotes project identity
- Supports future TxDOT managed lanes project





Accommodate Emerging TxDOT Projects



Accommodation of North Houston Highway Improvement Project (NHHIP)

METRORAPID INNER KATY PROJECT



**PROPOSED
STUDEMONT STATION**

OPTION 2

OPTION 1

MEMORIAL DR

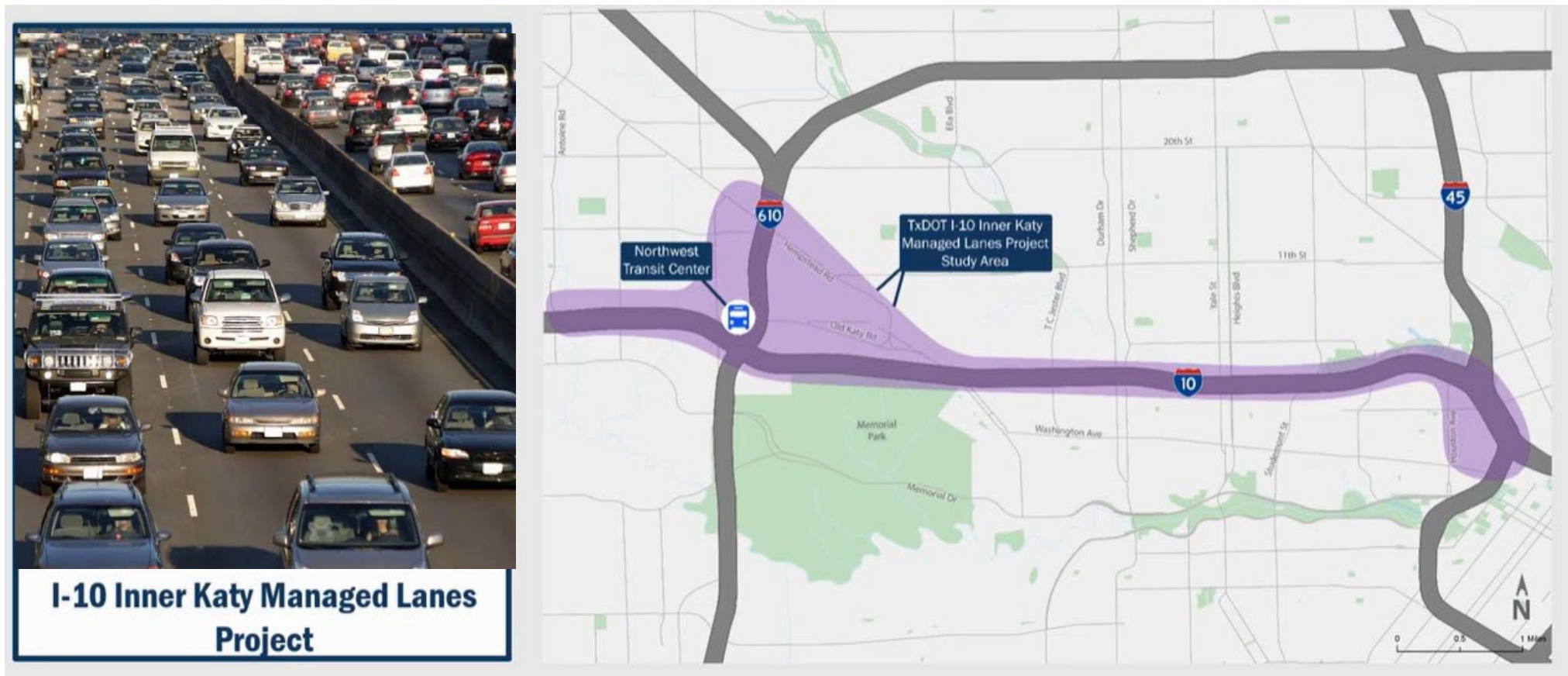
STUDEMONT ST

Coordination on TxDOT's White Oak Bayou Project



Source: TxDOT

Ongoing Coordination on TxDOT's Proposed I-10 Inner Katy Managed/HOV Lanes Project



Source: TxDOT



Locally Preferred Alternative



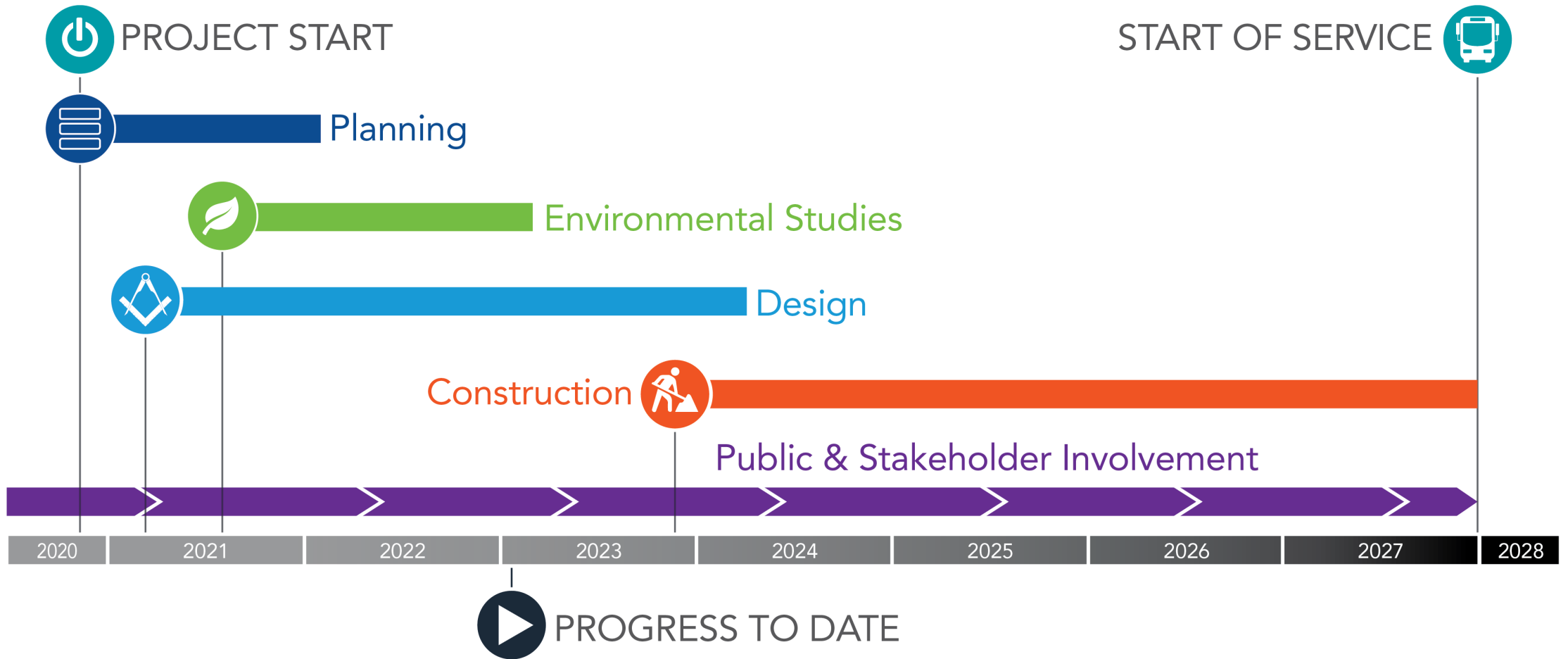
Locally Preferred Alternative (LPA) - 2022



LEGEND

PROPOSED PROJECT	EXISTING FACILITIES
— Inner Katy Corridor Bus Rapid Transit (BRT) Facility	— Silver Line BRT
● Station	— Red Line Light Rail Transit (LRT)
○ Proposed Station	- - - Green Line LRT
	- - - Purple Line LRT
	- - - Regional Express Service

Schedule

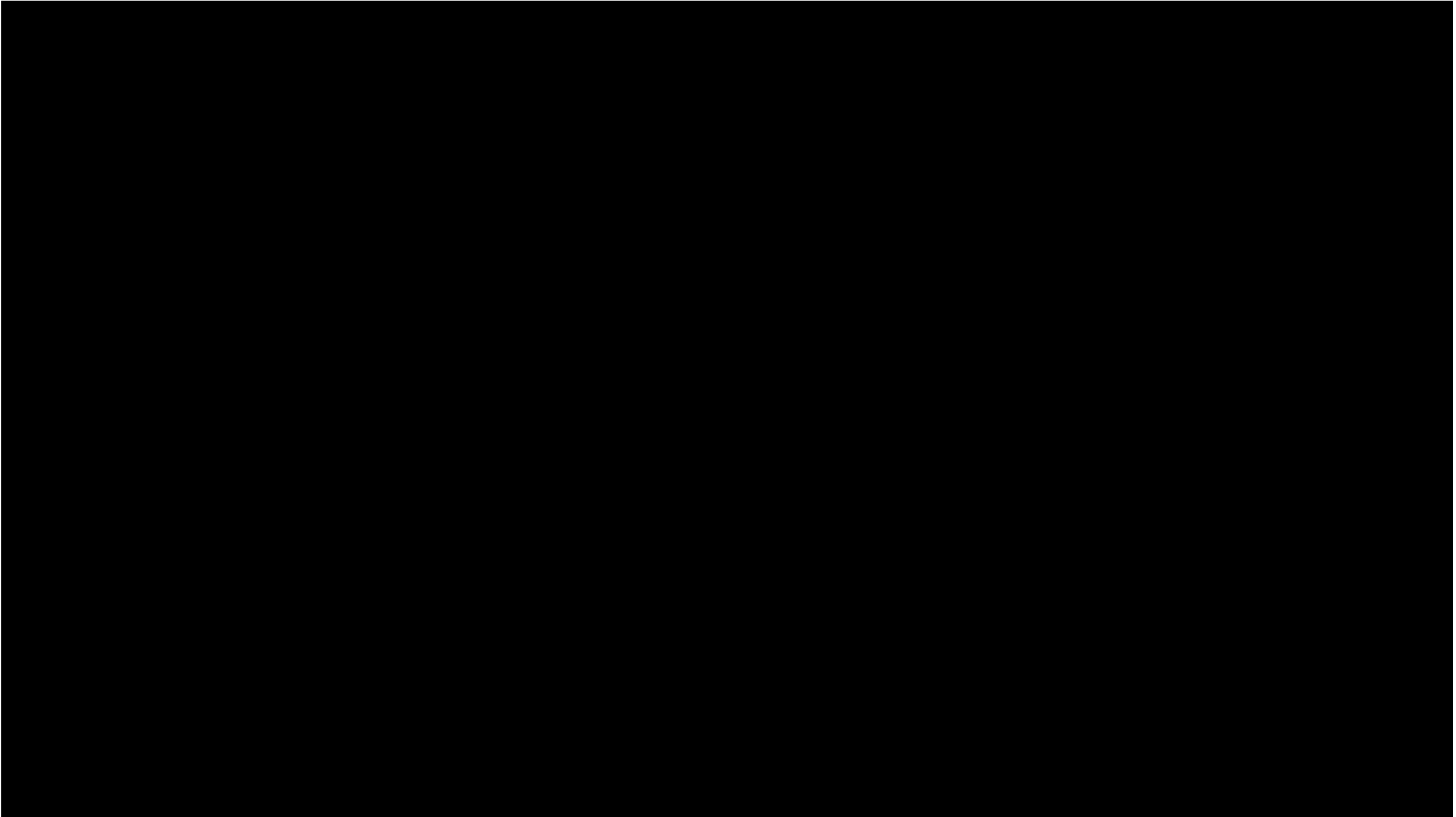


Next Steps for the METRORapid Inner Katy Project

- Continue coordination efforts:
 - TxDOT
 - COH
 - H-GAC
- TxDOT agreement
- Coordination of multiple TxDOT projects within the corridor
- Finalize conceptual engineering
- Assess impacts on project budget
- Begin preliminary engineering
- Continue outreach



Project Video





Thank You

FOR MORE INFORMATION:
Visit [RideMETRO.org/InnerKaty](https://www.RideMETRO.org/InnerKaty)





Item 13A. Future Amendments to the 2023-2026 TIP and 2045 RTP



Transportation Advisory Committee
March 15, 2023

Future TIP and RTP Amendments

- Advance METRO's locally funded METRORail Gulfton Corridor (MPO ID 18160) into FY 2024 of TIP in preparation for a Small Starts federal funding application (+\$80.7M; \$250.0M)
- Advance H-GAC's CMAQ funded Regional Transit Fare Collection System set-aside (MPO ID 18260) into FY 2023 of TIP. Change sponsor to METRO (+\$27.7M; \$40.3M)
- Add \$688K STBG funding to Memorial City Redevelopment Authority Gessner Road reconstruction (MPO ID 17129) cover increase in construction management & engineering (Federal: +\$344K; Local: +\$344K; \$15.0M)
- Increase federal ROW funding of TxDOT Houston District IH 10 West widening (MPO ID 10334) due to new utilities relocation estimate. (+\$19.0M; \$152.7M)

Future TIP and RTP Amendments

- Delay TxDOT Houston District Cat-12 funded SH 35/SP 5 construction (MPO IDs 209/210) to FY 2026 due to ROW and utilities issues. Clarify descriptions. (Total: \$80.8M)
- Delay TxDOT Houston District Cat-2/12 funded IH 610 direct connector construction (MPO ID 18048) to FY 2026 due to ROW issues. Clarify description. (Total: \$200.7M)
- Delay TxDOT Houston District Cat-2/4 funded SH 36 widening (MPO ID 263) to FY 2026 due to ROW and utilities issues. (Total: \$45.0M)
- Delay TxDOT Houston District Cat-2 funded FM 2100 widening (MPO ID 290) to FY 2026 due to ROW issues. (Total: \$42.9M)

Future TIP and RTP Amendments

- Delay TxDOT Houston District Cat-2 funded US 90A widening (MPO ID 18029) to FY 2025 due to utilities issues. (Total: \$35.0M)
- Delay TxDOT Houston District Cat-5 funded FM 518 path (MPO ID 17122) to FY 2024 due to utilities issues. (Total: \$13.4M)
- Delay TxDOT Houston District Cat-5 funded FM 1960 ITS installation (MPO ID 17088) to FY 2026 to coordinate with intersection improvements on corridor. (Total: \$10.9M)

Delays to Ten-Year Plan

- Delay TxDOT Houston District Cat-5 funded FM 2920 ITS installation (MPO ID 17045) to FY 2027 due to pending City of Tomball decision on FY 2025 FM 2920 reconstruction (MPO ID 17085). (Total: \$1.9M)
- Delay TxDOT Houston District Cat-2 funded FM 517 widening (MPO ID 38) to FY 2028 due to ROW issues. (Total: \$87.8M)

Action

- Information and discussion only