



Item 5. Amendments to the 2023-2026 TIP and 2045 RTP



Transportation Advisory Committee
July 19, 2023

TIP and RTP Amendments

- Program City of Houston USDOT \$21.0M RAISE (Rebuilding American Infrastructure with Sustainability and Equity) grant for Telephone Road rehabilitation (MPO ID 18933) in FY 2024. (+\$26.2M)
- Program TxDOT Houston District SH 99 Seg B direct connectors construction at SH 35 (MPO ID 8088) in FY 2026 with state Toll funding and federal ROW funding. (+\$88.4M)
- Change sponsor of Galveston County SH 99 Seg B direct connectors construction at IH 45 South (MPO ID 14249) to TxDOT Houston District. Increase state Toll funding. Add federal ROW funding. Delay to FY 2026. (+\$69.9M; \$145.9M)

TIP and RTP Amendments

- Delay the TxDOT Houston District SH 99 Segment B-1 construction (MPO ID 283) from FY 2025 to FY 2026 to coordinate with corridor lettings. Increase state toll funding. (+\$152.6M; Total: \$409.6M)
- Delay the TxDOT Houston District SH 99 Segment B construction (MPO ID 257) from FY 2025 to FY 2026 to coordinate with corridor lettings. (Total: \$203.1M)
- Delay the TxDOT Houston District SH 35 construction (MPO ID 18027) from FY 2024 to FY 2026 to coordinate with corridor lettings. (Total: \$39.4M)
- Delay the City of Houston TASA funded IMD Bikeway construction (MPO ID 17120) from FY 2024 to FY 2026 to finalize AFA with TxDOT Houston District. (Total: \$2.6M)

TIP and RTP Amendments

- Delay the City of Houston STBG funded Fondren Road reconstruction (MPO ID 17093) from FY 2024 to FY 2026 to finalize design. (Total: \$25.5M)
- Delay the City of Pearland STBG funded Mykawa Road reconstruction (MPO ID 17082) from FY 2023 to FY 2026 due to ROW and utilities issues. (Total: \$39.0M)
- Delay the City of Pearland STBG funded Mykawa Road reconstruction (MPO ID 7602) from FY 2024 to FY 2026 due to ROW issues. (Total: \$2.9M)
- Delay the City of Pearland STBG funded Smith Ranch Road reconstruction (MPO ID 11654) from FY 2023 to FY 2024 due to ROW acquisitions and utilities relocations. (Total: \$4.9M)

TIP and RTP Amendments

- Delay the City of Tomball Cat-2 funded FM 2920 reconstruction (MPO ID 17085) from FY 2025 to FY 2026 due to finalize public involvement process and design changes. (Total: \$28.6M)
- Delay the Fort Bend County CMAQ funded Wireless Traffic Signal Communication System (MPO ID 17062) from FY 2024 to FY 2025 due to readiness after AFA completion. (Total: \$9.3M)

Transit Formula Funded TIP Amendments

- Program FY 2021 FTA Section 5307 Urbanized Area Formula fund allocations for Fort Bend County, Harris County and Gulf Coast Transit District (MPO ID: 18338, 18339, 18340, 18341, 18625, 18626, 18627, 18940, 18941, 18942, 18943) in FY 2023. (+\$11.8M)
- Program FY 2022 FTA Section 5307 allocations for Fort Bend County, Harris County and Gulf Coast Transit District (MPO ID: 18343, 18344, 18345, 18346, 18628, 18629, 18630, 18944, 18945, 18946, 18947) in FY 2023 & FY 2024. (+\$13.7M)
- Program FTA FY 2021 Section 5310 Enhanced Mobility of Seniors and Individuals with Disabilities Formula fund allocations for Fort Bend County, Harris County and Gulf Coast Transit District (MPO ID: 18837, 18927, 18948, 18928, 18951) in FY 2023. (+\$2.5M)
- Program FTA FY 2022 Section 5310 allocations for Fort Bend County and Harris County (MPO ID: 18838, 18931, 18949) in FY 2023. (+\$5.0M)

Transit Formula Funded TIP Amendments

- Program FTA FY 2021 Section 5339 Bus and Bus Facilities Formula fund allocations for Gulf Coast Transit District (MPO ID: 18929, 18950) in FY 2023. (+\$275K)
- Program FTA FY 2022 Section 5339 Bus and Bus Facilities Formula fund allocations for Gulf Coast Transit District (MPO ID: 18932, 18952, 18953, 18954) in FY 2023. (+\$1.9M)
- Program the City of Conroe's FY 2023 FTA Sections 5307, 5310 and 5339 Formula fund apportionments for the Conroe-The Woodlands Urbanized Area (MPO ID: 18937, 18938, 18939, 18935, 18936) in FY 2023 with TDCs as match. (+\$1.2M)

Budget Effects of Amendments

Proposed July 2023 TPC Amendments - TIP Budget Effects				
Total Federal Funding Programmed	As of May 2022	As of June 2023	Proposed Amendments (July Action)	Programming as of July 2023 (Pending TPC Approval)
Category 2 - Metro and Urban Area Corridors	\$1,453,610,240	\$1,043,453,232	\$0	\$1,043,453,232
Category 5 - Congestion Mitigation Air Quality (CMAQ)	\$604,869,695	\$641,094,933	\$2,022,906	\$643,117,839
Category 7 - Surface Transportation Block Grant (STBG)	\$795,981,665	\$867,727,577	\$0	\$867,727,577
Category 9 - Transportation Alternatives - Set Aside (TASA) Program	\$52,939,485	\$51,877,364	\$0	\$51,877,364

¹Includes Grouped and TIP status Project Fund Amounts.

Action

- Recommendation for Transportation Policy Council approval of Resolutions 2023-25 (amendments) and 2023-26 (TDCs)

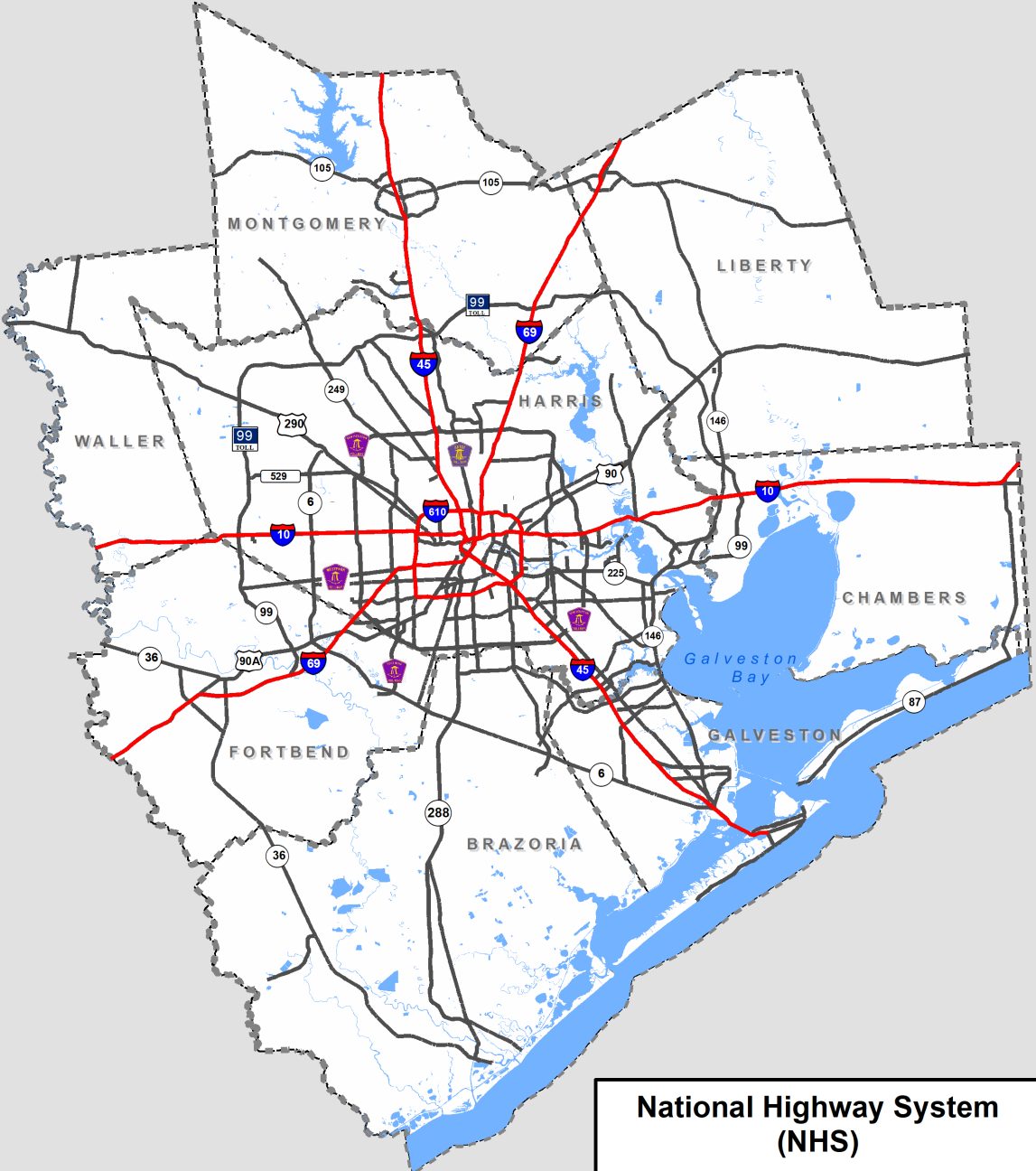


Item 6: Pavement and Bridge Performance Measures



Transportation Advisory Committee
July 19, 2023

National Highway System (NHS)



National Highway System (NHS)

- Interstate NHS
- Non-Interstate NHS

Performance Measures & Targets

- Pavement Condition of Interstates & Non-Interstate NHS Roadways
 - International Roughness Index (IRI, Cracking, and Rutting or Faulting)
- Bridge Condition of all NHS bridges
 - National Bridge Inventory Ratings
- Targets – past (2022) and future (2024 & 2026)



National Highway System (NHS)

Reporting 2022 Regional Targets

✓ *All pavement targets were met.*

Bridge targets were narrowly missed.

2022		PAVEMENT				BRIDGE	
		Interstate		Non-Interstate		All NHS	
Condition	Desired Trend	Target	Actual	Target	Actual	Target	Actual
Good	↑	42.1%	44.6% ✓	34.4%	38.3% ✓	49.1%	48.5%
Fair	↓	57.8%	55.3% ✓	40.8%	40.2% ✓	49.7%	50.2%
Poor	↓	0.1%	0.1% ✓	24.8%	21.5% ✓	1.2%	1.3%

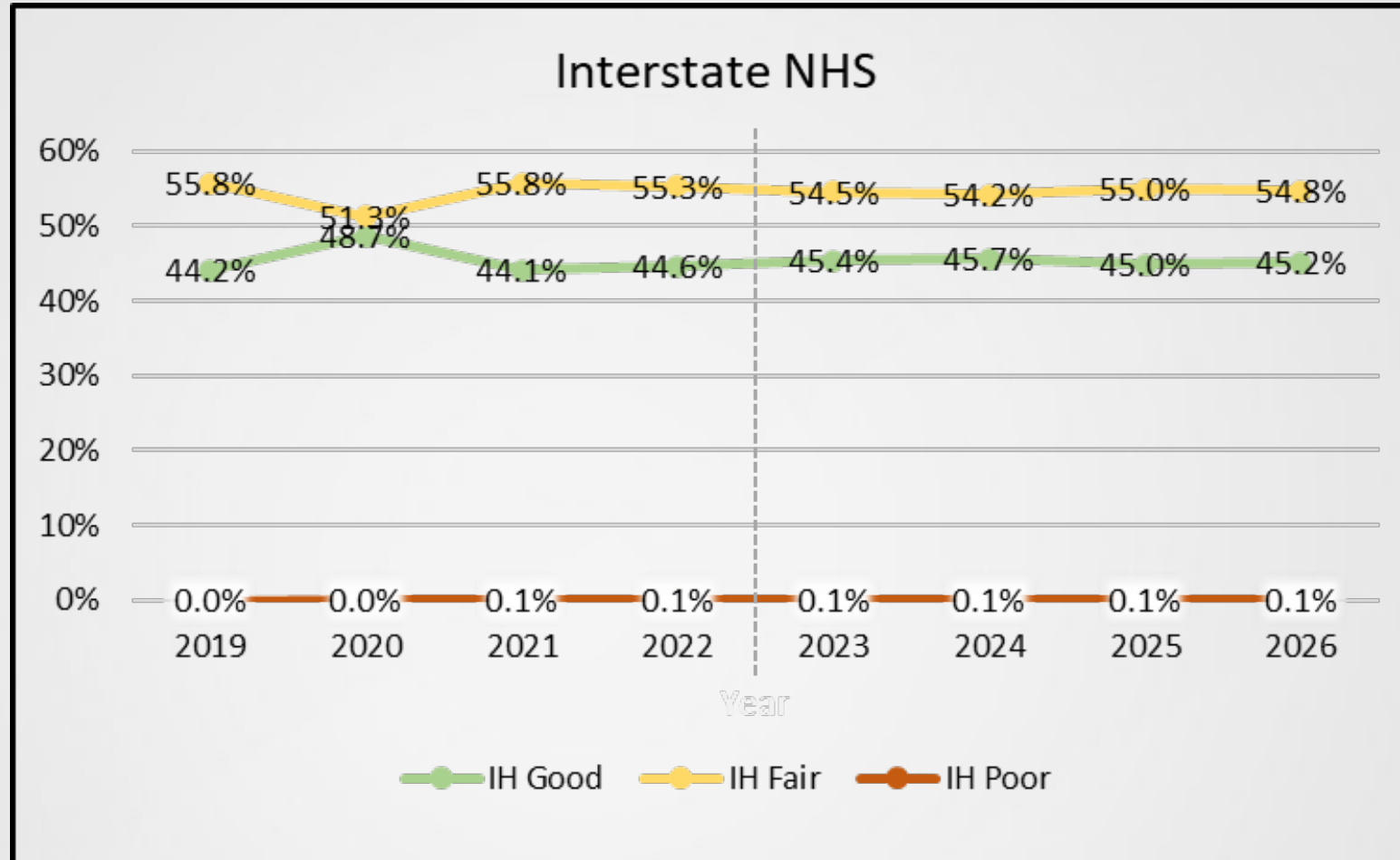
Agency Coordination



- H-GAC analysis of regional data sets
- Harris and Fort Bend County Toll Road Authorities, Harris County & City of Houston
- TxDOT Houston & Beaumont Districts

Past & Future Pavement Conditions

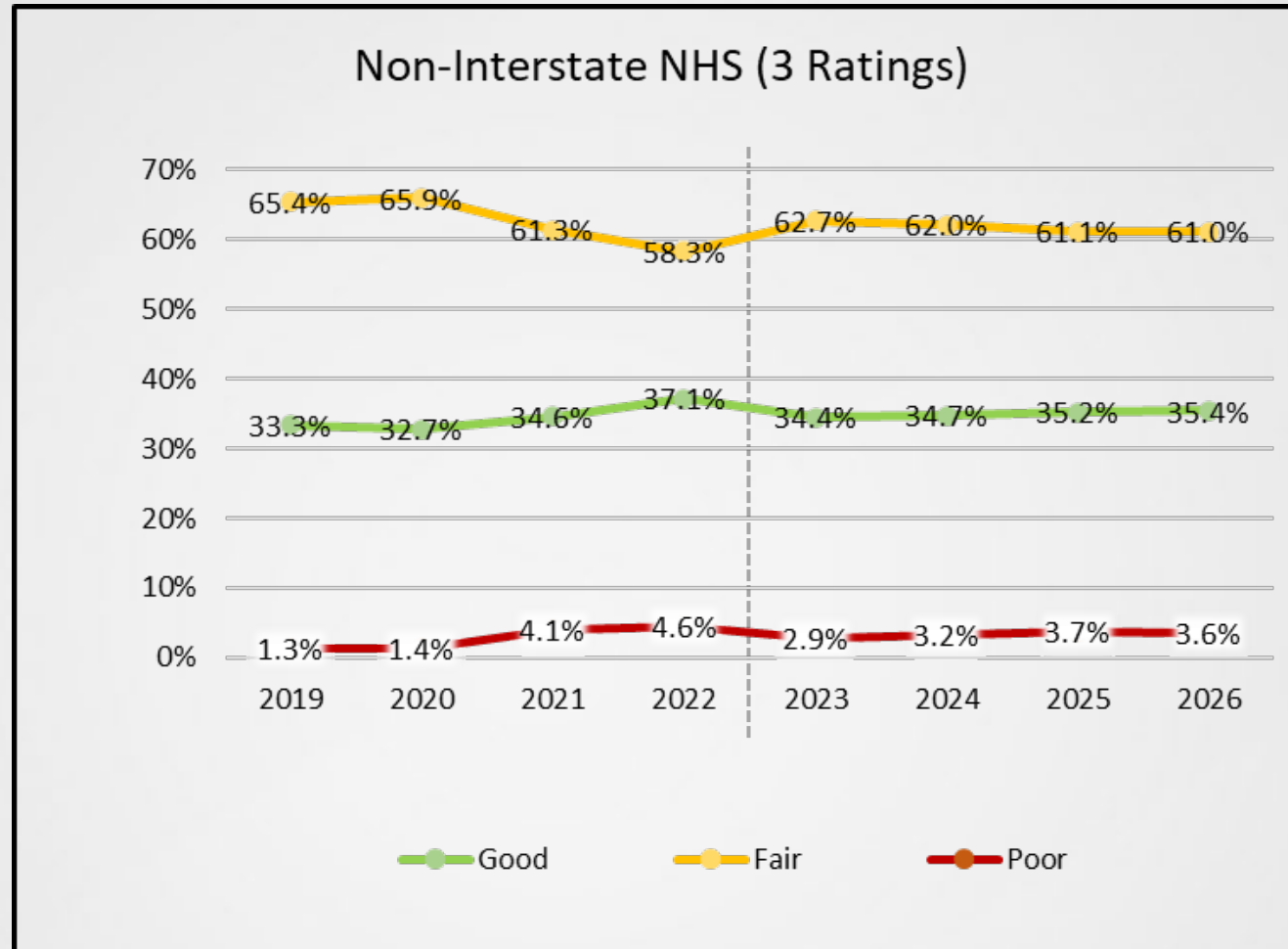
- Good
- Fair
- Poor



Future ratings are estimates based on 4-year moving averages

Pavement Conditions

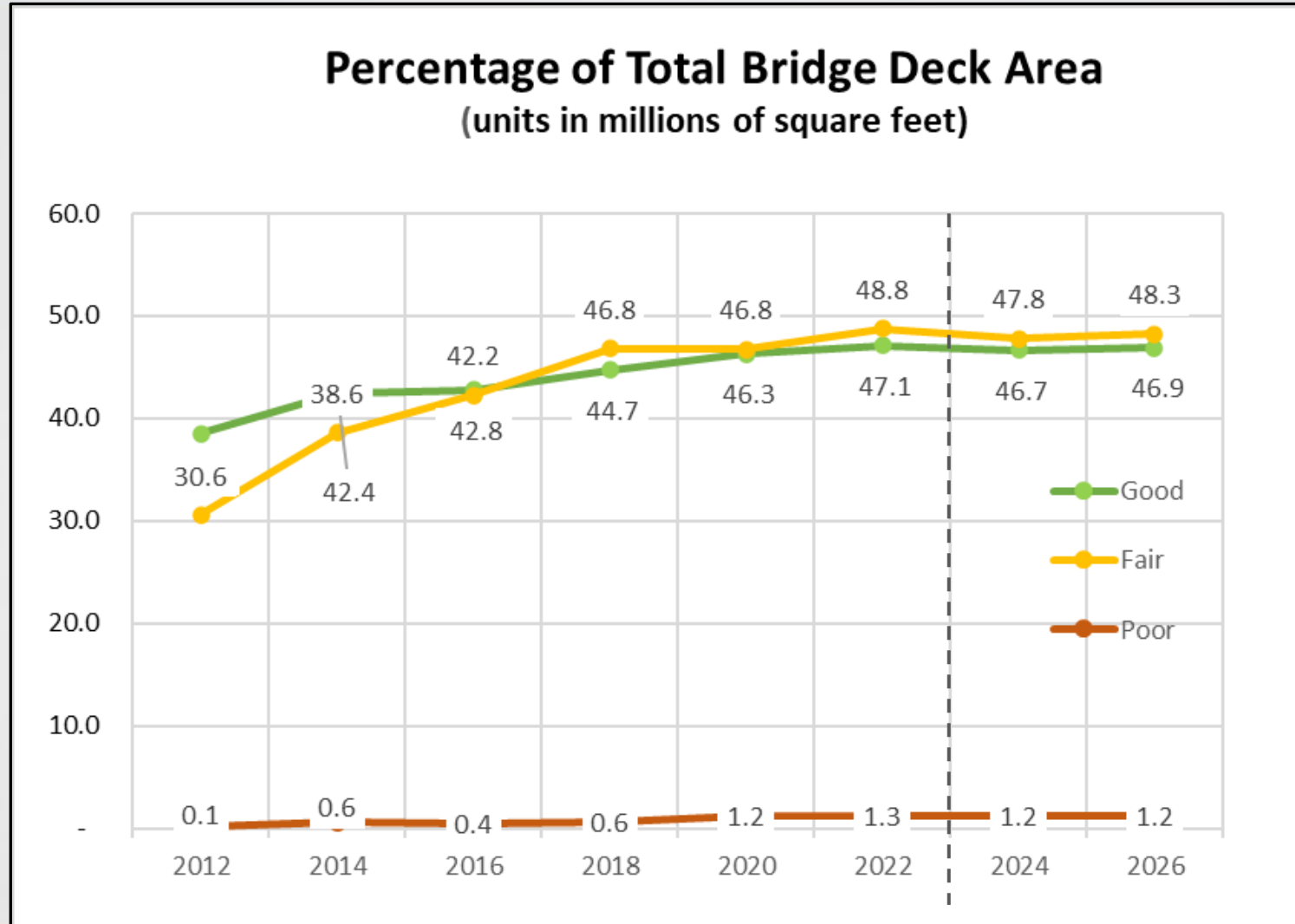
- International Roughness Index (IRI)
- Cracking
- Rutting or Faulting



Future ratings are estimates based on 4-year moving averages

Bridge Conditions

➤ National Bridge Inventory Ratings



Future ratings are estimates based on 4-year moving averages

Regional Investments

- Dedicated Funding Sources

FY 2023 - 2026	NHS	Non-NHS	All Roadways
Pavement (Category 1)	\$ 433 M	\$ 110 M	\$ 543 M
Bridge (Category 6)	\$ 132 M	\$ 134 M	\$ 266 M
Total	\$ 565 M	\$ 244 M	\$ 809 M

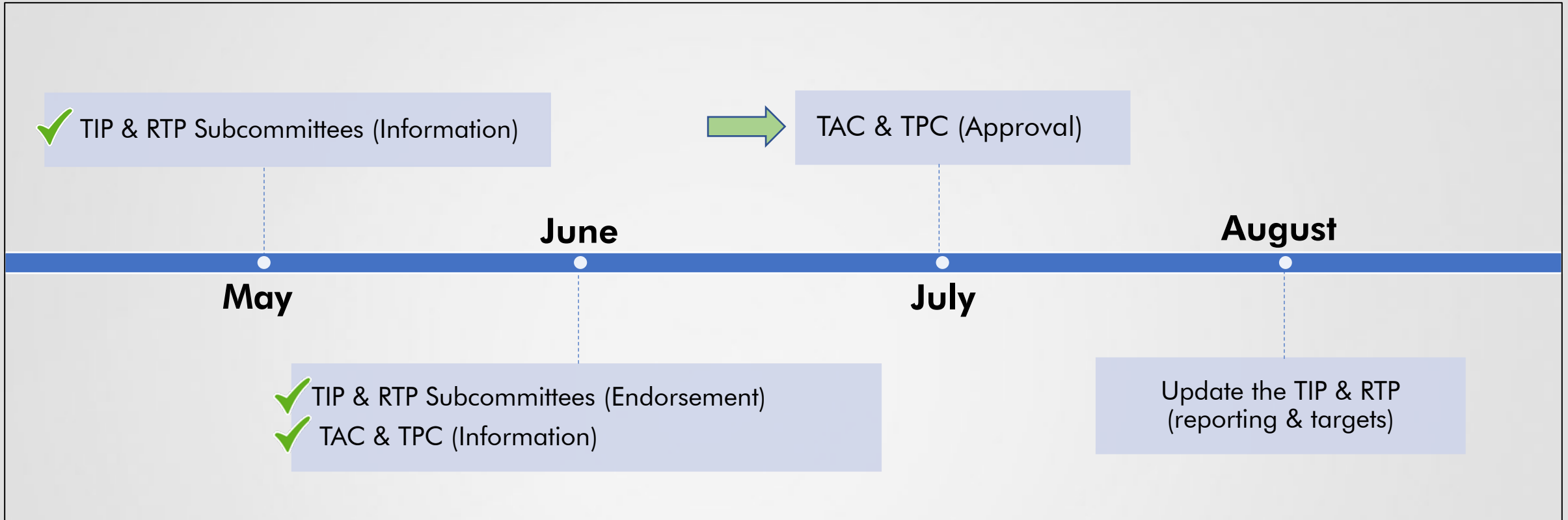
- H-GAC's Project Selection Process (\$1B)
- TxDOT's Unified Transportation Plan (UTP) - 10-Year Plan

Setting Future Targets

2024 and 2026 Targets			
Condition	PAVEMENT		BRIDGE
	Interstate	Non-Interstate	All NHS
Good	45.7%	34.7%	46.7%
Fair	54.2%	62.0%	47.8%
Poor	0.1%	3.2%	1.2%

Targets are based on a 4-year moving average to 2024 and holding flat for 2026

Timeline



TIP – Transportation Improvement Program Subcommittee
RTP – Regional Transportation Plan Subcommittee

TAC – Transportation Advisory Committee
TPC – Transportation Policy Council

Action

- Disregard Table 2 on page 136
- Recommendation for Transportation Policy Council approval of Resolution 2023-27, as shown in Table 1

Table 1

PAVEMENT AND BRIDGE					
Performance Measure	2022 Targets / Actuals	2022 Targets achieved	Desired Trend	2024 Targets	2026 Targets
Interstate pavement in good condition	42.1% / 44.6%	Yes	↑	45.7%	45.7%
Interstate pavement in fair condition	57.8% / 55.3%	Yes	↓	54.2%	54.2%
Interstate pavement in poor condition	0.1% / 0.1%	Yes	↓	0.1%	0.1%
Non-Interstate NHS pavement in good condition	34.4% / 38.3%	Yes	↑	34.7%	34.7%
Non-Interstate NHS pavement in fair condition	40.8% / 40.2%	Yes	↓	62.0%	62.0%
Non-Interstate NHS pavement in poor condition	24.8% / 21.5%	Yes	↓	3.2%	3.2%
National Highway System bridge deck area in good condition	49.1% / 48.5%	No	↑	46.7%	46.7%
National Highway System bridge deck area in fair condition	49.7% / 50.2%	No	↓	47.8%	47.8%
National Highway System bridge deck area in poor condition	1.2% / 1.3%	No	↓	1.2%	1.2%





Item 7-Unified Planning Work Program (UPWP) Amendment



Transportation Advisory Committee
July 19, 2023

UPWP Amendment



The Unified Planning Work Program (UPWP) is a two-year plan, that runs from October 1, 2021- September 30, 2023, and describes regional transportation planning activities and programs.

The current UPWP was adopted by the Transportation Policy Council (TPC) on August 27, 2021 and most recently amended on February 24, 2023.

Add City of Houston Grant Award

Add Activity to Task V, Sub-Task 5.2:

- The City of Houston received an FHWA Reconnecting Communities Discretionary Grant for FY2023 to conduct a planning study to examine connections between Hillcroft Avenue in Gulfton and destinations including Hillcroft Transit Center, Wisdom High School, and Bray's Bayou, that are currently separated by infrastructure, including Southwest Freeway, Westpark Tollway, and other busy roads.
- The grant is for \$552,160 of discretionary grant funds, with a local match of \$138,040 provided by the City of Houston. The total project amount will be \$690,200.
- *These FHWA grant funds will not be included in the UPWP Funding Tables because the work will be conducted by a partner agency.*

Recommendation to TPC

- Recommendation to the TPC for Approval of Resolution UPWP 2022/2023-8





“0-3 Year Projects” Readiness Questionnaire



Transportation Advisory Committee
July 19, 2023

Readiness Questionnaire – “0-3 Year Projects”

- Approximately 200 Projects – Mid July 2023
- 3 Week Completion Time
- Completed Only Once for Each Project
- Same Questionnaire for Readiness Assessment Efforts After Results of Criterion Assessment
- 12 Questions with Sub-Questions
- Smart Form so the More Complex, the More Sub-Questions

Realistic Considerations for “0-3 Year Projects”

TIP

- Inclusion in Transportation Improvement Plan (TIP) – 8 Months

Red Flags

- ROW – 18-24 months
- Utilities Relocations – 8-12 months
- Railroad Agreements – 8-12 months
- Public Hearing – 8-12 months
- USACE IP and/or USCG Permits – 12-24 months



Project Selection Process



Transportation Advisory Committee
July 19, 2023

Funding Instruction - Approved

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

Regional Goods Movement

- Projects Scoring

Investment Categories: Purpose

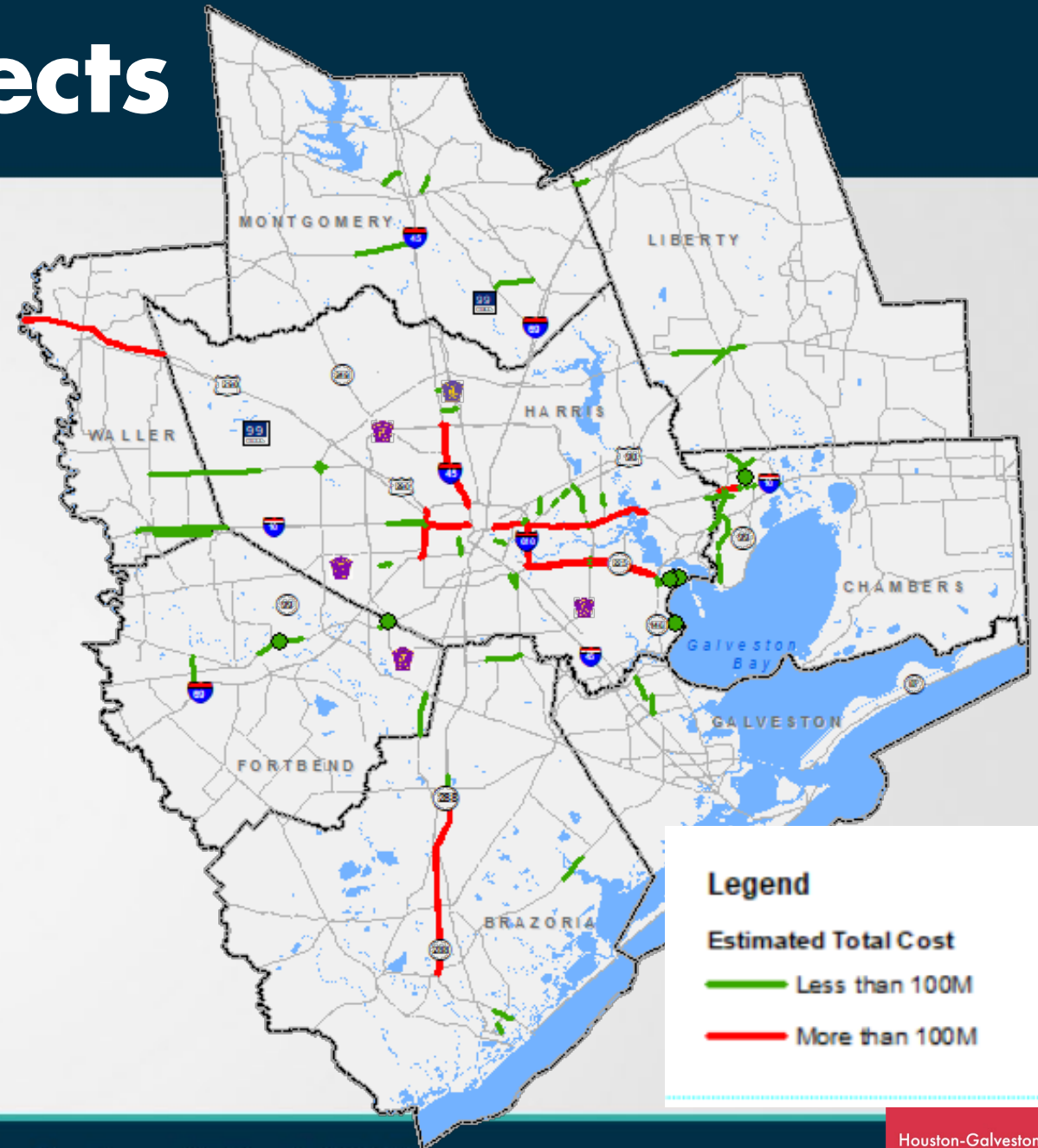
Investment Category	Description and Purpose (“Identify, develop, and fund...”)
Regional Goods Movement	Projects that most effectively enhance or improve safe and reliable freight mobility throughout the region.
Major Projects	Projects that are regional in scope, most effectively address goals and priorities of the Transportation Policy Council or identified in the Regional Transportation Plan and exceed \$100 million in total estimated costs.
High-Growth Area Needs	Projects that most effectively address mobility, accessibility, and congestion mitigation needs in areas experiencing rapid or significant growth in population or other demographic measures, economic development, travel demand, or other indicators identified by local agencies.
Resiliency & State of Good Repair	Projects that most effectively help the transportation system avoid or recover quickly from events that create delays, closures, or other impacts, and projects that provide maintenance of current transportation facilities and services.
Operational Improvements & Congestion Management	Projects that most effectively deliver traffic management and other operational improvements, as well as mitigate current congestion.
Transit	Projects that most effectively provide, expand, or enhance transit infrastructure throughout the region.
Active Transportation	Projects that most effectively enhance or improve walking and bicycling for essential trip-making in the region.
Safety **	Projects that most effectively will reduce or eliminate crashes that result in fatalities and serious injuries.

Eligible Activities Potential Spending

Investment Category	Rehab/ Restoration	Added Capacity	New Road	Access Management	Intersection Improv.	ITS	Sidewalks/ Bike Lanes	Transit Facilities
Regional Goods Movement	12%*							
Operational Improvements	13%*							
High-Growth Area Needs	25%*							
Active Transportation	7.5%*							
Transit	7.5%*							
Major Projects (~25%*)	30%*							
Resiliency **	5%*							
Safety **								
Potential availability	24.5%	80%	67%	80%	92.5%	92.5%	70%	75.5%

Submitted RGM Projects

Submitted	Sponsors	Projects
Total	15	88
> than \$100 M	2	24
< than \$100 M	15	64



Segmented Projects

Projects not Scored	Segments/Projects	Scored	Cost (\$M)
FM 529	3	No	\$181
US 90	3	No	\$141
SL 8 (already 10YP)	1	No	\$60

Segments combined for scoring	Segments/Projects	Scored	Cost (\$M)
US 90 A	2	Yes	\$77
IH 10 W FR	2	Yes	\$54
FM 1405	2	Yes	\$32

Scored Projects

	# of Projects	Cost (\$M)
Projects Scored	55*	\$1,968
≥ 50 Points (Moving to BCA)	40	\$1,383
< 50 Points	11	\$326
Verifying Eligibility	4	\$260

*Reduced from 64 to 55 for projects with adjoining segments

IC Focused Criteria - Scoring

Criteria	Scoring Methodology
Recommended in a freight plan and priority (10 Pts)	2-part question. <i>Projects that referred to recommendations included in the draft H-GAC RGMP were all considered as medium priority and scored 5 points.</i>
Located on a freight Corridor and percent daily truck volumes (10 Pts)	Existing truck percentages were verified based on existing traffic counts data.
Connectivity to freight generators (10 Pts)	H-GAC resiliency tool was reviewed for projects linkage to port or airport score. Connectivity to scores for other freight generators are based on sponsor responses.
Narrative explaining how project improves freight movement (5 Pts)	Based on narrative. All projects that included grade separations scored 5, all projects included ITS scored 4, rest of the project scored between 1-3. If projects connected to freight generators scored 2, projects that primarily serve daily commuters and projects that were just added capacity scored 1 point.
Promote off-peak/overnight delivery (5 Pts)	Based on narrative.
Hurricane evacuation route (10 Pts)	Based on project location.

Summary of IC Focused Criteria Scores

Recommended in a Freight Plan and Priority/Ranking (10 Pts)						
	Max Points	# of Proj Scored	Min Points	# of Proj Scored	Average	# of Proj Scored
Recommended in a Freight Plan and Priority/Ranking (10 Pts)	10	8	5	29	6	-
Freight Corridor & Percent Daily Truck Volumes (10 Pts)						
Freight Corridor & Percent Daily Truck Volumes (10 Pts)	Max Points	# of Proj Scored	Min Points	# of Proj Scored	Average	# of Proj Scored
Freight Corridor	2	26	-	-	-	-
Daily Truck Traffic	8	17	1	7	4	11
Total	10	7	1	5	5	0
First-Mile, Last-Mile Connectivity to Freight Generators (10 Pts)						
First-Mile, Last-Mile Connectivity to Freight Generators (10 Pts)	Max Points	# of Proj Scored	Min Points	# of Proj Scored	Average	# of Proj Scored
Connectivity to Port/Airport	10	11	2	10	6	-
Connectivity to Other Freight Generators (10 Pts)	10	6	2	6	6	-
Total	10	21	2	9	7	6

Narrative - Improve Regional Goods Movement (5 Pts)						
	Max Points	# of Proj Scored	Min Points	# of Proj Scored	Average	# of Proj Scored
Narrative - Improve Regional Goods Movement (5 Pts)	5	12	1	8	3	20
Promote Off-Peak/Overnight Delivery (5 Pts)						
	Max Points	# of Proj Scored	Min Points	# of Proj Scored	Average	# of Proj Scored
Promote Off-Peak/Overnight Delivery (5 Pts)	5	12	-	-	-	-
Hurricane Evacuation Route (10 Pts)						
Hurricane Evacuation Route (10 Pts)	Max Points	# of Proj Scored	Min Points	# of Proj Scored	Average	# of Proj Scored
Project Located on an State Designated Evacuation Route	10	6	5	1	9	-
Project Located on an Facility Connected to Hurricane Evacuation Route	5	20	-	-	-	-
Total	10	6	5	22	6	-

Benefits to OIC Criteria - Scoring

Criteria	Scoring Methodology
Improves daily traffic operations (6 Pts)	Scored based on narrative and project scope. Intersection improvement, Access management, turn lanes, median turn lanes, ITS all received - 3 points Grade separations – 6 points New roads parallel to existing facilities – 2 points Only added capacity – 1 point
Benefits high growth area (5 Pts)	Based on narrative.
Improves conditions for walking and bicycling (2 Pts)	Based on narratives and project scope
Improves conditions for transit users (3 Pts)	Based on narrative.
Reduces inoperability and improves sate of good repair (4 Pts)	Based on narrative.

Summary of OIC Criteria Scores

Improves Daily Traffic Operations (6 Pts)						
	Max Points	# of Proj Scored	Min Points	# of Proj Scored	Average	# of Proj Scored
Improves Daily Traffic Operations (6 Pts)	6	8	1	5	3	31
Benefits High Growth Areas (5 Pts)						
	Max Points	# of Proj Scored	Min Points	# of Proj Scored	Average	# of Proj Scored
Benefits High Growth Areas (5 Pts)	5	49	-	-	-	-
Improves Traffic Conditions for Walking and Bicycling (2 Pts)						
	Max Points	# of Proj Scored	Min Points	# of Proj Scored	Average	# of Proj Scored
Improves Traffic Conditions for Walking and Bicycling (2 Pts)	2	38	-	-	-	-

Improves Traffic Conditions for Transit (3 Pts)						
	Max Points	# of Proj Scored	Min Points	# of Proj Scored	Average	# of Proj Scored
Improves Traffic Conditions for Transit (3 Pts)	3	15	-	-	-	-
Reduces Inoperability and Improves State of Good Repair (4 Pts)						
	Max Points	# of Proj Scored	Min Points	# of Proj Scored	Average	# of Proj Scored
Reduces Inoperability and Improves State of Good Repair (4 Pts)						
Reduces Inoperability	2	39	1	6	3	39
Improves SOGR	2	44	1	6	3	44
Total	4	41	2	1	4	41

Planning Factors Criteria - Scoring

Criteria	Scoring Methodology
Safety	Scored based on existing conditions and improvement narratives. <i>Quantified the safety improvement types to calculate CRF of all improvements</i>
Resiliency	Existing conditions verified on regional resiliency tool. Improvements scored based on narrative.
Access/Connectivity	Based on # of low-income & minority populations within ¼ mile. And connectivity based on project location.
EJ/Impacts on vulnerable populations	Based on narratives describing benefits to vulnerable populations.
Impacts on natural and cultural resources	Based on narrative and H-GAC calculated NOx and VOC emission reductions.

Summary of PF Criteria Scores

Safety (7 Pts)						
Safety (7 Pts)	Max Points	# of Proj Scored	Min Points	# of Proj Scored	Average	# of Proj Scored
Existing Conditions	3	16	2	14	3	16
Improvement Narrative	4	26	2	10	3	13
Total	7	9	2	4	5	5
Resiliency (5 Pts)						
Resiliency (5 Pts)	Max Points	# of Proj Scored	Min Points	# of Proj Scored	Average	# of Proj Scored
Vulnerability Score	1	10	0	0	0	0
Criticality Score	1	13	0	0	0	0
Improvement Narrative	3	1	2	51	2	51
Total	4	32	2	51	3	15
Access/Connectivity (5 Pts)						
Access/Connectivity (5 Pts)	Max Points	# of Proj Scored	Min Points	# of Proj Scored	Average	# of Proj Scored
Low-income & Minority Households within 1/4 mile	2	23	1	26	1	23
Connectivity to Medical Facility	1	14	-	-	-	-
Connectivity to Schools	1	26	-	-	-	-
Connectivity to Social Services	1	11	-	-	-	-
Total	5	4	1	16	3	17

EJ/Impacts on Vulnerable Populations (5 Pts)						
EJ Impacts on Vulnerable Populations (5 Pts)	Max Points	# of Proj Scored	Min Points	# of Proj Scored	Average	# of Proj Scored
Benefits Vulnerable Populations	3	51	2	2	3	51
Mitigation of Hazardous Impacts	2	48	1	1	2	48
Total	5	45	2	1	5	45
Impacts on Natural and Cultural Resources (5 Pts)						
Impacts on Natural and Cultural Resources (5 Pts)	Max Points	# of Proj Scored	Min Points	# of Proj Scored	Average	# of Proj Scored
Avoids/Mitigates Impacts on Natural and Cultural Resources	3	53	-	-	-	-
Emissions Reduction	2	34	1	14	2	34
Total	5	33	2	1	4	5
Innovation (3 Pts)						
Innovation (3 Pts)	Max Points	# of Proj Scored	Min Points	# of Proj Scored	Average	# of Proj Scored
Innovation (3 Pts)	3	24	2	11	3	24

Draft RGM Projects Ranking & Next Steps

- Initial draft scores and ranking
- Sponsors will get an opportunity to challenge staff scores
- Final criteria scores and ranking will be determined after sponsors validate scoring
- Projects scoring 50 points or higher will move to BCA & project readiness evaluation phase
- Final scores and ranking will be determined after BCA scores
- Sponsors will get an opportunity to challenge BCA scores
- Final scores and ranking will be determined after sponsors validate BCA scoring
- Final recommendation of project ranking will be presented to TAC and TPC

Project ID	Agency Name	Project Title	Facility/Street/Highway	Limits	Description	Estimated Total Cost	Total IC Focused Score	Total OIC Score	Total PF Score	Total Scores	Rank
1101	TxDOT Houston District	SH 146 DC Ramps to Barbours Cut Port Terminal	SH 146	AT BARBOURS CUT BLVD	CONSTRUCT 3 DCs (SB-EB, WB-NB [SH 146], WB-NB [SH 225])	\$50,000,000	40	18	24	82	1
1103	TxDOT Houston District	SH 225 at SL 8 Three Remaining DC ramps	SH 225	AT SL 8	CONSTRUCT 3 DIRECT CONNECTOR RAMPS (EB-NB, EB-SB, WB-SB)	\$95,000,000	40	18	23	81	2
1252	Harris County Engineering	East Richey Rd Improvement Project	E Richey Road	I45 NBFR to Grovedale Rd	Safety improvements, access management, driveways, sidewalks and improved street geometry.	\$6,100,000	34	20	24	78	3
1117	TxDOT Houston District	SH 332 Grade Separation at FM 523	SH 332	From N of FM 523 to S of FM 523	Construct grade separation at FM 523.	\$24,710,000	36	16	22	74	4
1087	TxDOT Houston District	IH 610 E Reconstruction and Widening to add Managed lanes	IH 610 E	From SH 225 to IH 45 S	RECONSTRUCT AND WIDEN FROM 8 TO 12 LANE (ADD 4 MANAGED LANES) - Safety, operational and mobility improvements to the IH 610 E mainlanes and frontage roads, based on results of the SH 225 PEL/IH 610 East PEL study	\$50,000,000	29	21	23	73	5
1102	TxDOT Houston District	SH 146 Widening and other improvements	SH 146	From Ferry Road to Chambers C/L (Cedar Bayou)	Reconstruct and widen from 4 to 6 lanes, median, bicycle/pedestrian facilities and intersection improvements.	\$90,000,000	33	15	25	73	6
833	Harris County Engineering	Rankin Road Access Management Project	Rankin Road	IH 45 NBFR to Ranch View Trail	Add center two-way left turn lane, signal modifications (leading pedestrian intervals, crosswalks, ADA ramps), and sidewalk improvements to mitigate serious injuries and fatalities on 1.5 mile Vision Zero High Injury Network corridor.	\$12,200,000	33	16	23	72	7
1058	TxDOT Houston District	IH 10 W Frontage Roads	IH 10 W	From FM 359 to Fort Bend County Line	CONSTRUCT 2 TWO LANE FRONTAGE ROADS ON NEW LOCATION (EASTBOUND AND WESTBOUND). This project fills in the gap of the frontage road system in Fort Bend County on IH 10.	\$50,750,000	33	16	22	71	8
1059	TxDOT Houston District	IH 10 W Frontage Roads	IH 10 W	From Waller County Line to Cane Island Parkway	CONSTRUCT 2 TWO LANE FRONTAGE ROADS ON NEW LOCATION (EASTBOUND AND WESTBOUND). This project fills in the gap of the frontage road system in Fort Bend County on IH 10.	\$3,700,000					

DRAFT

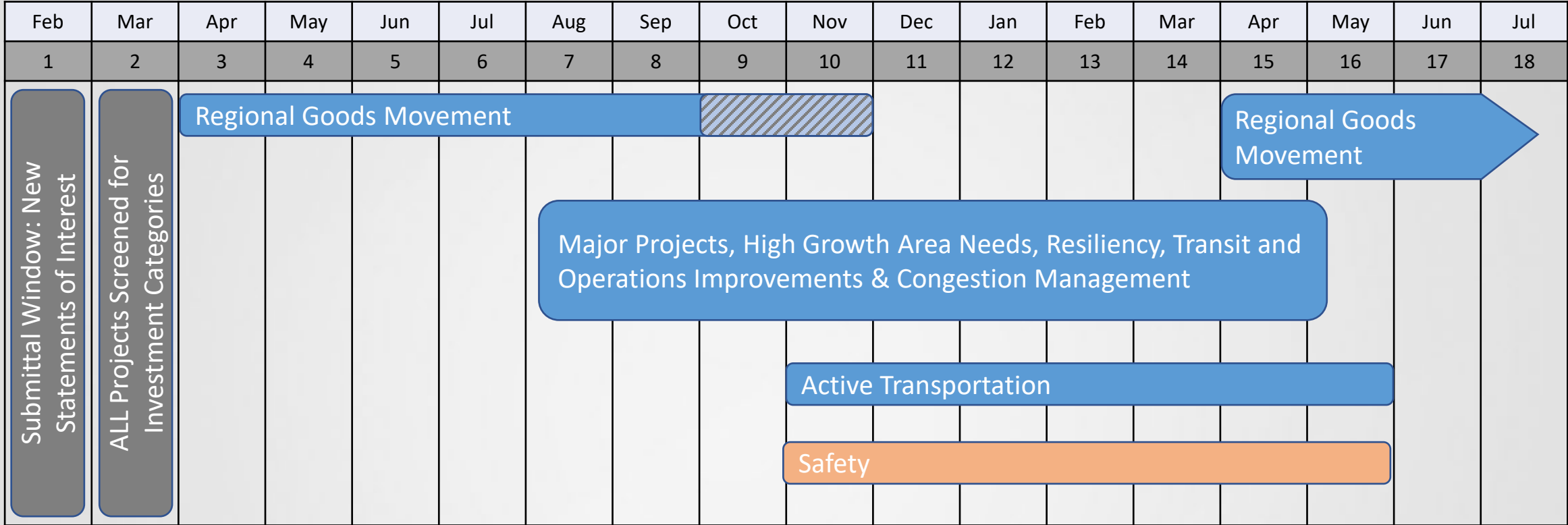
Benefits Calculators

- Staff Provided Crash, Delay and Emissions Reduction Calculators
- Sponsors may calculate and provide additional benefits
 - Use US DOT BCA Guidance and provide full Documentation
- Total Benefits/Costs
- Benefits/Costs ratios in to points 0-100
 - Review outliers
- Staff will provide excel budget templates

RGM Next Steps/Timeline

	RGM Selection Process Steps	Schedule
Staff	Sponsor meetings to debrief	7/13 - 7/20
Staff	Provide Benefit Calculators	7/18
Staff	Benefit Calculators Presentation	7/17 - 7/21
Sponsors	Provide Benefit - Cost Information	7/19 - 8/8
Sponsors	Provide Project Budget	7/19 - 8/8
Sponsors	Provide Readiness Information	7/19 - 8/8
Staff	Validation of Scores and BCAs	8/9 - 8/22
Staff	Project Readiness Determined (for Sorting)	8/9 - 8/22
Staff	Ranked list Developed	8/23 -9/8
TAC/TPC	Ranked List Preview Approval	September
Staff	TIP/RTP Amendments for AQ-Exempt Projects	TBD
Staff	TIP/RTP Amendments for AQ-Non-Exempt Projects	TBD

Investment Categories – Revised Timeline



Evaluate Requests Related to Existing Projects

ID Projects to Reduce Carryover Balances

ID Projects for Planning Studies

Add Planning Studies to UPWP

Initiate/Conduct New Plans

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Item 9: 2024 Unified Planning Work Program (UPWP) Development



Transportation Advisory Committee
July 19, 2023

Current UPWP Progress Status

- 9 plans or studies completed
- 16+ plans, studies, or activities underway
- 9 studies in procurement
- 10 studies under development
- 12 planned activities will carryover

- ~2/3 of budget will carryover
- Delays with some Funding Agreements and procurements
- Staffing shortages: 49 FTEs; 15 vacant
- Implementing staff extension plan

2024 UPWP Overall Summary

- One-year UPWP rather than two-year
- Focus on completing carryover tasks
- Incorporates new Bipartisan Infrastructure Law requirements
- Approximately \$12.5 million planned budget
- Significant reformatting and restructuring
- Opportunities to add activities or studies through amendment

UPWP Required Structure

Task I: Administration and Management

Task II: Data Development and Maintenance

Task III: Short Range Planning

Task IV: Metropolitan Transportation Plan

Task V: Special Planning Studies

UPWP Structure: Task I & II

Task I: Administration and Management

1.1	Program Support/Unified Planning Work Program
	1.1.a Program Support and Administration
	1.1.b Unified Planning Work Program Development
	1.1.c Public Policy and Governmental Affairs
1.2	Public Involvement and Outreach
	1.2.a Public Involvement

Task II: Data Development and Maintenance

2.1	Travel Demand Modeling
	2.1.a Travel Demand Forecasting
2.2	Transportation Data Development
	2.2.a Travel Data Collection and Surveys
2.3	Socioeconomic Data and Models
	2.3.a Socioeconomic Data
	2.3.b Socioeconomic Models
	2.3.c Information Services and Analytical Support

UPWP Structure: Task III

Task III: Short-Range Planning

3.1	Transportation Project Programming
	3.1.a Transportation Improvement Program
	3.1.b Project Evaluation and Prioritization
	3.1.c Project Information and Transparency
	3.1.d Project Tracking, Monitoring and Support
3.2	Planning Support for Transit Service Implementation
	3.2.a Transit Coordinated Planning
	3.2.b Regional Transit Agency Coordination
3.3	Air Quality Planning
	3.3.a Air Quality Planning
	3.3.b Air Quality Conformity
	3.3.c Emissions Reduction Planning
3.4	Evacuation Planning
	3.4.a Regional Evacuation Planning

UPWP Structure: Task IV

Task IV: Metropolitan Transportation Plan

4.1	Regional Transportation Plan and Project Planning
	4.1.a Regional Transportation Plan (RTP) Development
	4.1.b Financial Planning
	4.1.c Project Development and Mitigation Planning
4.2	Multimodal System Planning
	4.2.a Thoroughfare Planning
	4.2.b Freight Planning
	4.2.c Sub-Regional Planning
4.3	Transportation Performance Management
	4.3.a Performance Measures and Targets
4.4	Transit Planning
	4.4.a Regional Transit Planning
	4.4.b Local Area Transit Studies
4.5	Active Transportation
	4.5.a Regional Pedestrian and Bicycle Planning
	4.5.b Pedestrian/Bicycle Data Collection, Mapping, and Reporting
	4.5.c Pedestrian and Bicycle Local Plans
	4.5.d Pedestrian and Bicycle Outreach

UPWP Structure: Task V (part 1)

Task V: Special Planning Studies

5.1	Safety Planning
	5.1.a Regional Safety Planning
	5.1.b Safe Streets and Roads for All
	5.1.c Safety Performance Measures, Analysis, and Reporting
	5.1.d Safety Outreach
5.2	Congestion Management Planning and Operations
	5.2.a Congestion Management Process
	5.2.b Development of Travel Demand Management Strategies
	5.2.c Intelligent Transportation Systems
	5.2.d Regional Incident Management Planning
	5.2.e Travel Demand Management Operations
	5.2.f Regional Incident Management Operations
5.3	Livable Centers
	5.3.a Livable Centers Planning and Technical Support
	5.3.b Livable Centers Planning Studies

UPWP Structure: Task V (part 2)

Task V: Special Planning Studies

5.4	Emerging Transportation Technologies and Alternatives
	5.4.a Connected and Autonomous Vehicles
5.5	Air Quality Management and Operations
	5.5.a Air Quality Initiatives for Fleets
	5.5.b Air Quality Initiatives for Consumers and Communities
	5.5.c Clean Cities
5.6	Resiliency Planning
	5.6.a Regional Resiliency Planning
5.7	Corridor, Project-Level, and Special Studies
	5.7.a Corridor Planning
	5.7.b Project-Level Planning
	5.7.c Complete Streets Planning
	5.7.d Transit Oriented Development (TOD) Planning
	5.7.e Partner Agency Planning Activities

Task I Highlights: Administration & Management

Activities Currently Underway

- Support for all MPO committees
- Language Assistance Plan

Activities Under Development

- Planning Support Services (Staff Extension)
- Local Agency Grant Coordination and Support

Task II Highlights: Data & Modeling

Ongoing Activities

- Socioeconomic and transportation data collection and model development

Activities Currently Underway

- Regional Travel Surveys
- Travel Demand Modeling
- Air Quality Modeling
- Modeling Support for Project Selection Process

Activities Under Development

- Active Transportation Model

Task III Highlights: Short-Range Planning

Activities Currently Underway

- Regional Fare Plan
- Hurricane Evacuation Planning
- Project Selection Process
- Project Implementation Tracking
- Ongoing TIP-Related Activities

Activities Under Development

- Project Selection Process Database
- Transit Information Study
- Greenhouse Gas Inventory

Carryover or New Activities

- Health Impacts of Air Quality
- Project Development Program [NEW]

Task IV Highlights: Long-Range Planning

Activities Currently Underway

- Regional Goods Movement Plan
- Bicycle Safety Education
- Chambers County Thoroughfare Plan
- Bay Area (Harris Cnty Pct 2) Ped-Bike

Activities In Procurement

- Pearland Thoroughfare Plan
- US90 High Capacity Transit
- First Ward/Old 6 Ward Mobility Plan
- Buffalo Bayou Bike-Ped Plan
- Dayton Transit System
- Friendswood Trail Plan

Task IV Highlights: Long-Range Planning

Activities in Development

- RTP Regional Transportation Vision
- North Houston Community Transportation Priorities Plan
- Outer Westpark High Capacity Transit
- Memorial Drive Bike/Ped Study

Carryover or New Activities

- Regional Bus Transit Feasibility Study
- Regional Active Transportation Plan
- Regional Bike Highway Study
- Regional Safe Routes to School Plan
- RTP Scenario Planning Analysis [NEW]
- Consolidated Thoroughfare Plan [NEW]

Task V Highlights: Special Planning Studies

Activities Currently Underway

- Safety Intersection Audits
- Multiple Safety Programs
- Regional Safety Campaign
- Commute Solutions Evaluation
- Commute Solutions Planning
- “Tow and Go” Programs

Activities In Procurement

- Washington Avenue Corridor Plan
- Pearland FM 518 Corridor Plan
- Galveston Cnty Cemetery Road Study

Task V Highlights: Special Planning Studies

Activities in Development

- ITS Architecture Plan
- Safe Streets and Roads for All Plan

Carryover or New Activities

- Autonomous Vehicle Transit Pilot
- AV & Tech Regional Strategy
- Region-Wide Resilience Plan
- Resiliency Low-Impact Development Guide
- Complete Streets Plan (BIL req.) [NEW]
- Regional EV Infrastructure Plan [NEW]
- Houston & Pearland SH-35 Corridor Study [NEW]
- Project-Selection Process-Identified Corridor & Project-level Plans [NEW]

Budget and Funding Sources

Budget Under Development

- Approximately \$12.5 million

Funding Sources

- Transportation Planning Funds (Carryover & New)
- Surface Transportation Block Grant (Cat 7)
- Congestion Mitigation and Air Quality (Cat 5)
- Carbon Reduction Program (New; Cat 10-C)
- Federal Grants (SS4A, PROTECT, others)
- Federal Transit Administration Planning Grants
- Local and State Funds

Timeline

UPWP Development Task	Timeframe
MPO Team Identification of New/Changed Requirements	May 2023
MPO Team Status Assessments of Current Projects	June 2021
Preview to TAC/TPC	July 2023
Draft to TxDOT	July 2023
Final Draft Completed & Posted	July 2023
Public Comment Period	July-Aug 2023
Final Draft To TAC/TPC for Action	August 2023
Submit to TxDOT	Sept 2023
UPWP Activities Start	October 2023

Discussion

For Information and Discussion

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Item 10A. Administrative Amendments to the 2023-2026 TIP and 2045 RTP



Transportation Advisory Committee
July 19, 2023

Administrative TIP Amendments

- Change the Control-Section-Job (CSJ) number of TxDOT Houston District's SL 8 access management project (MPO ID 18035) to conform within TxDOT identification system.
- Add \$8M (15.6%) of local funding to METRO's FY 2024 Missouri City SH 6 Park & Ride project (MPO ID 18167) per updated estimates. (+\$8M; \$59.8M)

Action

- Signed for June 2023
- Information and discussion only



Item 10B. Future Amendments to the 2023-2026 TIP and 2045 RTP



Transportation Advisory Committee
July 19, 2023

Future TIP and RTP Amendments

- Increase the state-allocated federal ROW funding (SW-ROW), adding state and local funding, for TxDOT Houston District's FM 646 widening (MPO ID 10144) due to inflation of utilities relocation materials and mapping services. (+\$2.8M; \$17.6M)
- Delay the City of Conroe's Old Conroe Road extension (MPO ID 17101) from FY 2025 to FY 2026 due to environmental clearance and ROW acquisitions. (Total: \$101.2M)

Action

- Information and discussion only