

TIP Subcommittee Purpose

- Provide guidance to TAC in the development of the 10-Year Plan, and the Transportation Improvement Program;
- Define strategies to link the RTP, the 10 Year Plan investment plan, and the TIP;
- Recommend strategies to create a predictable project development and delivery pipeline; and
- Provide guidance for major amendments to the 10 Year Plan/TIP.
- Review and tracking of the progress on performance measures and targets

https://www.h-gac.com/transportation-advisorycommittee/transportation-improvement-program-subcommittee



TIP Subcommittee Year Ahead

- 2023-2026 TIP (Amendments)
- H-GAC 10-Year Plan
- Project Selection Process
- Federal Performance Measures and Targets
- Quarterly TIP Reporting
- Project Tracking/Project Development Assistance
- Development of the 2025-2028 TIP
- Regional Strategic Transportation Fund Development/Project Selection Process



Nomination of Officers

- Please send nominations to staff via email by May 19, 2023.
 - Adam.Beckom@h-gac.com
- Voting to take place at the next Subcommittee meeting.





Quarterly Meetings – 2023 -2026 TIP

- Quarterly Meetings with Local Sponsors
- Quarterly TxDOT Meetings for Local Government Projects in Consultation with TxDOT
- Schedule and Attend Additional Meetings with TxDOT and Local Governments as needed
- Master Tracking Spreadsheet and Meeting Minutes
- Monthly Internal Meetings to discuss amendments



FY 2023 Quarter 2 - Quarterly Meetings

- 25 Local Government Sponsors: ~120 Projects* in 2023-2026 TIP

 - ∼\$42M State Funds
 - ~ \$3.8B Local Funds
 - ~ \$4.9B Total Funds
- TxDOT: ~60 Projects in 2023-2026 TIP
 - ~ \$2.8B Federal Funds
 - ∼ \$2.6B State Funds
 - ∼ \$242M Local Funds

*Does not include Federal Transit Administration formula-funded projects (e.g., 5307, 5310, etc.)



Quarterly Amendments

- 38 of 180 projects programmed in 2023 2026 TIP required amendments (with TAC/TPC approval)
 - Change in Let Date
 - Additional Funding Requests
 - Cancellations
 - Sponsor changes



FY 2023 Federal Funds - Local Government Only

	2023 TIP Projects	Projects and Fund FY 2023 to		Projects and Funds Moved From FY 2023 to 2025 or Further		Total Federal Funds Moved Out of FY 2023	
2022 Q4 & 2023 Q1	34 Projects \$533M	7 Projects \$122.7M	23%	1 Project \$61M	12%	8 Projects \$183.7M	35%
2023 Q2	28 Projects \$414.6M	1 Project \$4.1M	1%	2 Projects \$119M	29%	3 Projects \$123.1M	30%
Upcoming 2023 Q3	23 Projects \$197M*	1 Project \$42.8M	22%				
Total Remaining Programmed		\$169.6M					

^{*1} Project with Approximately \$95M of Federal Funds Let in 2023 Quarter 2



Upcoming Amendments – Federal Funds*

- FY 2023 (\$620M Currently Programmed)
 - 2 Projects Moving to FY 2024 = \$54M
- FY 2024 (\$1.6B** Currently Programmed)
 - 3 Projects Moving to FY 2025 = \$34M
 - 3 Projects Moving to FY 2026 = \$186M
 - 1 Project Moving Outside of TIP = \$20M
- FY 2025 (\$1.4B** Currently Programmed)
 - 1 Project Moving to FY 2026 = \$71M
 - 3 Projects Moving Outside of TIP = \$150M
- FY 2026 (\$200M Currently Programmed)
 - 1 Project Moving Outside of TIP = \$195M



^{*} Excludes Federal Transit Administration formula-funded projects (e.g., 5307, 5310, etc.), but does include TxDOT Sponsored Projects

^{**} Includes NHHIP/I-45 Project

Goals



- Assess Funding Gaps
- Develop potential solutions to assist sponsors with "schedule risk items"
- Advance projects where possible



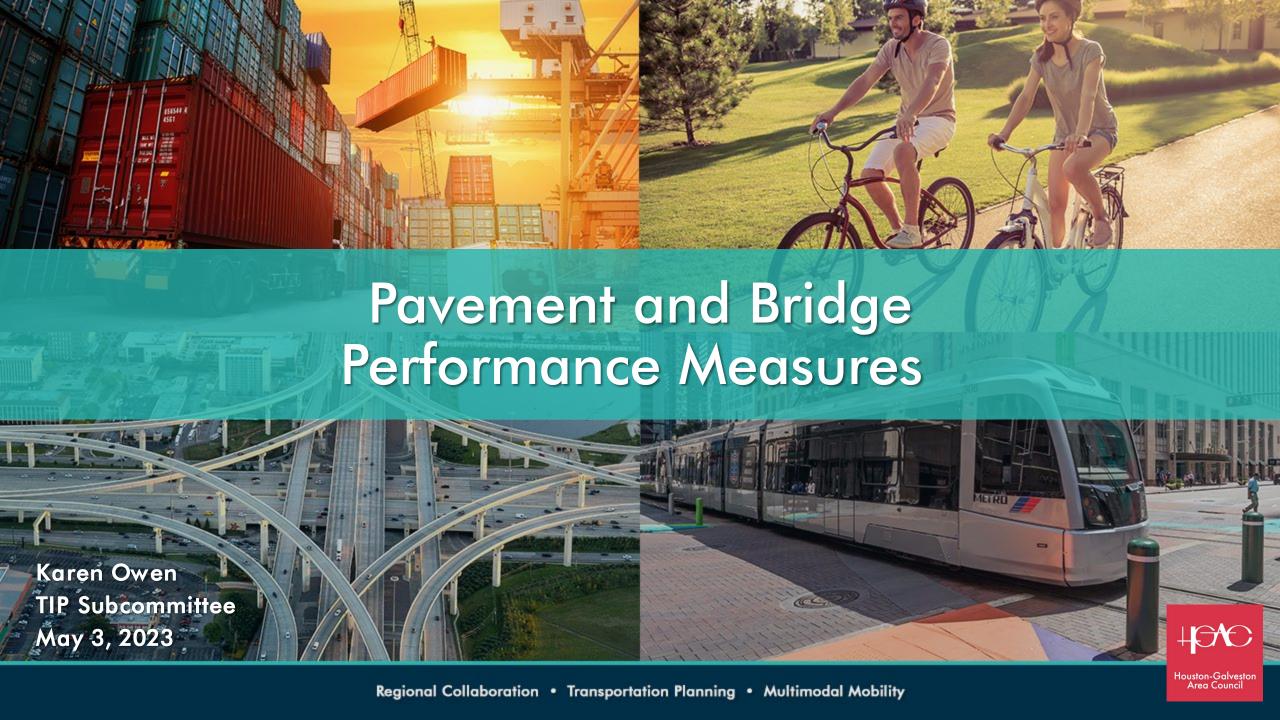
Contacts



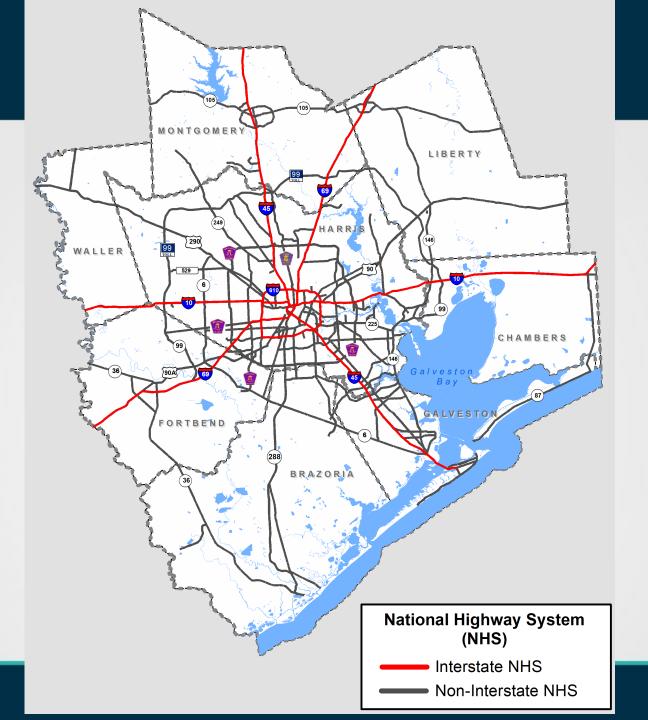
Callie Barnes
Principal Transportation Planner

Callie.Barnes@H-GAC.com 713-627-3200





National Highway System (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 and future 2024 & 2026



National Highway System (NHS)



Pavement & Bridge Analysis

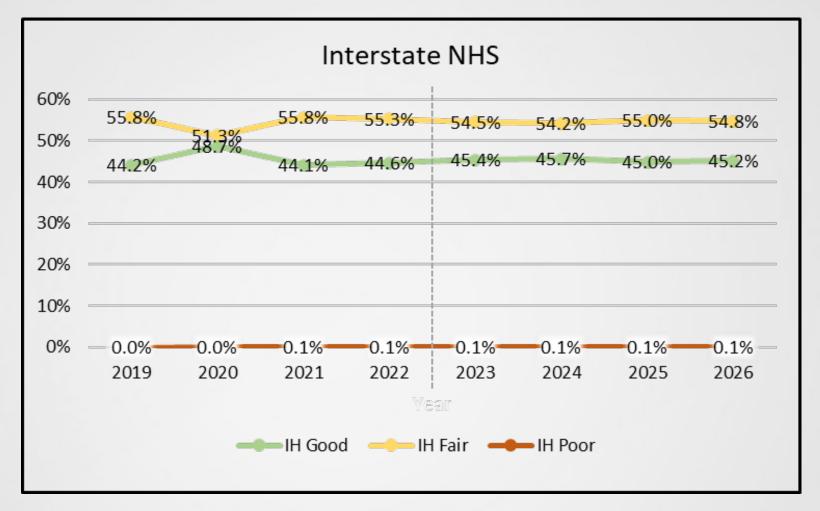


- H-GAC analysis of regional data sets
- Harris County, HCTRA, Fort Bend County, and City of Houston
 - Pavement condition verification (Non-interstate NHS)
- TxDOT Houston & Beaumont Districts



Past & Future Pavement Conditions

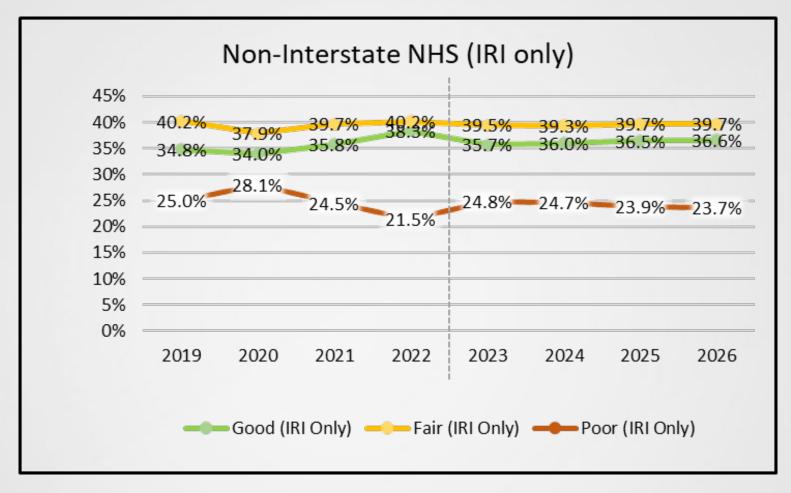
- Good
- Fair
- Poor



Future ratings are estimates based on 4-year moving averages



Past & Future Pavement Conditions

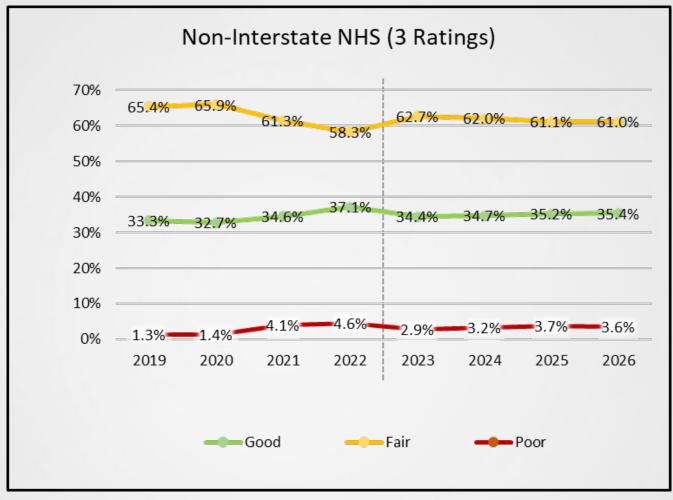


International Roughness Index = IRI Future ratings are estimates based on 4-year moving averages



Past & Future Pavement Conditions

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

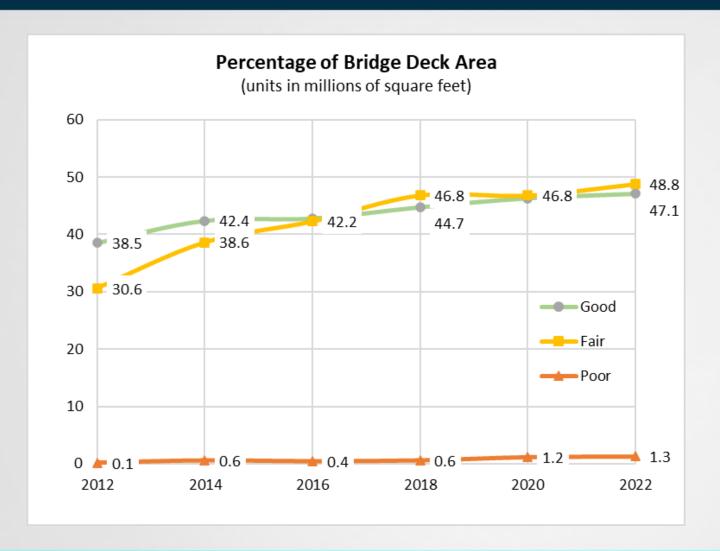


Future ratings are estimates based on 4-year moving averages



Past Bridge Conditions







Reporting 2022 Regional Targets

2022			PAVEN		BRIDGE		
		Inters	state	Non-Int	erstate	All NHS	
Condition	Desired Trend	Target	Actual	Target	Actual	Target	Actual
Good	1	42.1%	44.6%	34.4%	38.3%	49.1%	48.5%
Fair	1	57.8%	55.3%	40.8%	40.2%	49.7%	50.2%
Poor	1	0.1%	0.1%	24.8%	21.5%	1.2%	1.3%

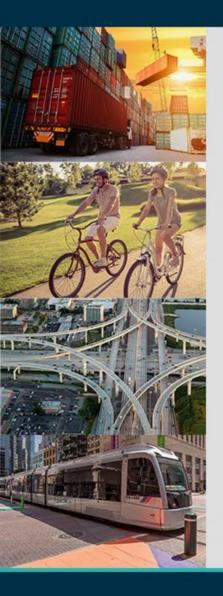


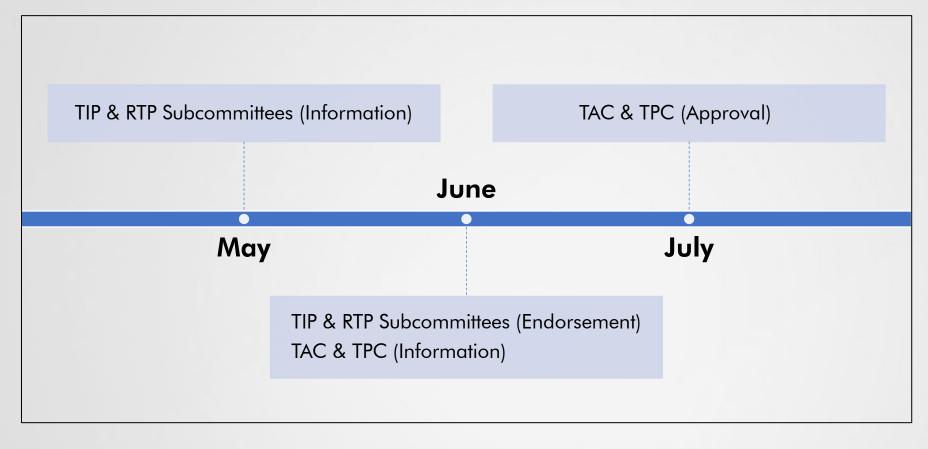
Setting 2024 & 2026 Targets

			PAVEN	BRIDGE			
		Interstate		Non-Int	erstate	All NHS	
Condition	Desired Trend	2022 Actual	2024 2026 Targets	2022 Actual	2024 2026 Targets	2022 Actual	2024 2026 Targets
Good	1	44.6%	44.6%	38.3% 38.3%		48.5%	48.5%
Fair	1	55.3%	55.3%	40.2%	40.2%	50.2%	50.2%
Poor	1	0.1%	0.1%	21.5%	21.5%	1.3%	1.3%



Next Steps





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

TAC – Transportation Advisory Committee TPC- Transportation Policy Council





Karen Owen
Senior Planner

karen.owen@h-gac.com (832) 681-2614





Statewide Pavement Targets

Recommended 2-Year and 4-Year Targets

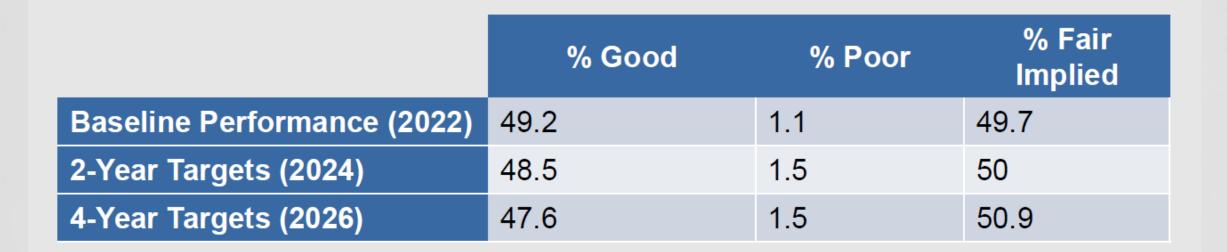
			2024 2-Year Targets						
Highway	Performance Measure	2022 Baseline	Average Target	Average Target with 1stdev	Average Target with 2stdev				
111	Good	64.5%	65.6%	64.8%	63.9%				
IH	Poor	0.1%	0.1%	0.2%	0.2%				
Non III	Good	51.7%	49.6%	47.6%	45.5%				
Non-IH	Poor	1.3%	1.3%	1.4%	1.5%				

			202	26 4-Year Targ	ets
Highway	Performance Measure	2022 Baseline	Average Target	Average Target with 1stdev	Average Target + 2stdev
IH	Good	64.5%	65.3%	64.4%	63.6%
IП	Poor	0.1%	0.1%	0.2%	0.2%
Non-IH	Good	51.7%	50.0%	48.0%	46.0%
INON-IM	Poor	1.3%	1.3%	1.4%	1.5%



Statewide Bridge Targets

Future Targets





Metric	Good	Fair	Poor
IRI (inches/mile) (all types)	<95	95-170	>170
Cracking (%)			
Asphalt Concrete Pavement	<5	5-20	>20
Jointed Concrete Pavement	<5	5-15	>15
Continuously Reinforced Concrete Pavement	<5	5-10	>10
Faulting (inches) (JCP only)	<0.10	0.10-0.15	>0.15
Rutting (inches) (ACP only)	<0.20	0.20-0.40	>0.40

§490.313 Calculation of performance management measures.

A pavement section shall be rated an overall condition of

- (1) Good only if the section is exhibiting Good ratings for all three conditions (IRI, Cracking_Percent, and Rutting or Faulting)
- (2) Poor if two or more of the three conditions are exhibiting Poor ratings (at least two ratings of Poor for IRI, Cracking_Percent, and Rutting or faulting)
- (3) Fair if it does not meet the criteria (1) or (2)

NHS Bridges

	2018 Baseline	2020 Targets	2020 Actuals	Change (2020 Target vs Actual)	2020 Target Met?	2022 Targets	2022 Target Adjustments *
Good							
Fair							
Poor							





Regional Goods Movement Evaluation Status

- Online Questionnaire
 - Investment Category Focused Criteria
 - Benefits to Other Investment Categories
 - Planning Factors
- Can upload additional documents using upload link
- Adjacent projects/Projects in phases will be considered as one large project per TPC Guidance Policy # 1
- H-GAC staff can provide assistance in gathering information from interactive webapps
- RGM Questionnaire filled by May 15, 2023, 9:00 AM.



Project Selection Funding Instructions

- Develop a recommendation for Transportation Policy Council to instruct level of investment in an Investment Category
- Two Approaches
 - Approach 1: Identify and achieve TPC's desired policy outcomes
 - Approach 2: Funding instructions proportional to the sponsors submittals
- Staff's potential recommendations are a combination of approaches
 1 & 2



Previous TPC Funding Guidance

Project Type	TPC Funding Guidance*	2018 Call for Projects
Mobility	75% - 82%	75%
Alternative Modes	9% - 13%	13%
Air Quality	9% - 13%	12%
Planning	<1%	<1%

Strategy	2018 Call for Projects Selection
Major Investments	25%
Expand	45%
Manage	14%
Maintain	8%
Active Transportation	7%

^{*}TPC Funding guidance approved prior to 2015 Call for Projects



2018 TPC Funding Selections

			Awarded (2018\$	3\$)*		
Strategy	Investment Type	# of Projects	Funding Awarded (Fed)	Ç	%	
Major Investments (5)	Project Cost More Than \$100 M (Mobility)	1	\$168,600,000	2!	5%	
	Added Capacity (Mobility)	10	\$302,528,840	45%		
Expand (64)	Transit Expansion (Alt.Mode)	1	\$4,165,000	0.62%	46%	
	Transit Passenger Facilities (Alt Mode)	1	\$4,992,000	1%		
Maintain (29)	Infrastructure Resiliency (Mobility)	0	\$0	0%		
	Rehabilitation/Reconstruction (Mobility)	3	\$36,280,000	5%	8%	
(==)	Transit Facility State of Good Repair (Alt.Mode)	1	\$18,661,000	3%		
	Access Management/Grade Separations (Mobility)	10	\$93,492,200	14%		
Manage (53)	ITS Infrastructure (Mobility)	2	\$2,212,000	0.33% 14%		
	Transit Priority Infrastructure (Alt.Mode)	0	\$0	0%		
Active Transportation (42)	Bike and Pedestrian Infrastructure (Alt.Mode)	8	\$43,669,052	6.	5%	
	Total	37	\$674,600,092			

Funding Instruction Alternatives

	Initial	Draft Funding Instructions							
Investment Category	Recommendation	New Projects	No Fed/State	All	Adjusted				
Regional Goods Movement	12%	11%	12%	14%	11%				
Operational Improvements & Congestion Management	13%	22%	19%	19%	16%				
High-Growth Area Needs	25%	19%	20%	21%	25%				
Active Transportation	7.5%	10%	6%	6%	7.5%				
Transit	7.5%	11%	13%	14%	7.5%				
Major Projects	30%	17%	20%	19%	25%				
Resiliency & State of Good Repair	5%	9%	9%	7%	8%				
Safety **		TBD;	~\$30M/year						

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



Revised Timeline: Elements of Process (RGM)

		Jan	Feb	1-Mar	2-Apr	3-May	4-Jun	5-Jul	6-Aug	7-Sep	8-Oct	9-Nov
		-2	-1	1	2	3	4	5	6	7	8	9
Sponsors	Open Period for Additional Statements of Interest							1				
Staff	Staff IDs All Projects with Category Scores											
Sponsors	Sponsors Provide Additional Scoring Information											
Staff	Staff screens for planning criteria (50 point cutoff)											
Sponsors	Sponsors Provide Benefit-Cost Information											
Staff	Validation of Scores and BCAs											
Staff	Project Readiness Determined (for sorting)											
Staff	Ranked List Developed											
TAC/TPC	Ranked List Review and Action/Adoption											
Staff	TIP/RTP Amendment for AQ-exempt Projects											
Staff	TIP/RTP Amendment for AQ Projects											TBD



Revised Timeline: Elements of Process

		Revised Project Selection Process Timeline										
			June	July	Aug	Sept	Oct	Nov	Dec	Jan	Fen	March
	Selection Process Steps	1	2	3	4	5	6	7	8	9	10	11
Staff	Announce PSP											
Staff	Publish Evaluation Criteria											
Sponsors	Provide Additional Scoring Information - 45 days											
Staff	Staff Screens for Criteria (50 points Cutoff) - 45 days		×									
Sponsors	Provide Benefit - Cost Information											
Staff	Validation of Scores and BCAs											
Sponsors	Provide Readiness Information					Y						
Staff	Project Readiness Determined (for Sorting)											
Staff	Ranked list Developed)					
TAC/TPC	Ranked List Preview Approval											
Staff	TIP/RTP Amendments for AQ-Exempt Projects											
Staff	TIP/RTP Amendments for AQ-Non-Exempt Projects											TBD



July 1st Online Selection Criteria Questionnaire Opens



Aug 15th Selection Criteria Questionnaire Submitted



Oct 1st Benefits Templates Provided by Staff and Readiness Questionnaire opens

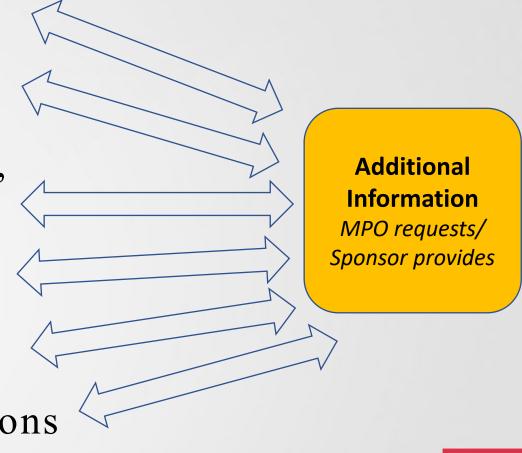


Oct 31st Benefits Templates and Readiness information Submitted



Screening Steps & Sponsor Interactions

- 1. Consider for Investment Category
- 2. Investment Category Cut-Offs
 - 1. At least 50 total points
 - 2. 250% of TPC's funding instruction
- 3. Sponsor opportunity to "challenge" quantitative scores
- 4. Benefit-Cost Analysis
 - 1. Must be greater than 1.0*
- 5. Project Readiness Assessment
- 6. Final Sort into Selection Classifications
- 7. Ranked List and Funding Cut-Off





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.

Investment Categories: Project Types

Investment Category	Intended Project Types and Priorities
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
Major Projects	All projects with an estimated cost of \$100 million or more *,**
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
Resiliency & State of Good Repair	Projects focused on resiliency improvements and extending useful life of the facility (Details TBD pending full PROTECT guidance)
Operational Improvements & Congestion Management	Projects that reduce congestion and reduce travel delay (Including HOV expansions and BRT projects)
Transit	All transit projects (may include HOV expansions and BRT)
Active Transportation	On and off-road bicycle & pedestrian projects that facilitate essential trip making including universal accessibility projects for transit
Safety **	Projects focused solely on safety improvements in high crash areas (details TBD pending recommendations of Safety Task Force)

Scoring Point Distribution

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



Planning Factors Point Distributions

	Investment Category									
Planning Factor	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	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										

Next Steps

- Announce ongoing PSP revised timeline May 2023
- Approve funding instructions June 2023
- Regional Goods Movement (RGM) scoring May 2023
- Initiate RGM projects benefits calculation templates June/July
- Initiate RMG project readiness July
- Next investment categories scoring criteria published June 2023
- Initiate additional information Submission July
- Ranked projects list developed December

