



Development of Project Evaluation Criteria



TIP Subcommittee
February 3, 2021

Agenda

- Status update
- Planning factors – Expand, Manage and Maintain Investment Categories
- Updated Timeline

Progress

Task	Progress
Consolidate Investment Categories	Green
Category definitions	Green
Scoring Weightage (benefit/cost Vs. Planning factors	Yellow
Benefit/cost scoring methodology	Yellow
Benefit/cost calculation templates	Red
Planning factors	Yellow
Planning factors scores	Yellow
Project readiness criteria	Red
Available funding ranges for each investment category	Red
Proposed funding set-asides for Incident Management, Intelligent Transportation Systems infrastructure expansion, Air quality programs	Red
Call for Projects rules	Red

Planning Factors – Roadway projects (DRAFT)

2021 Call - Planning factors

Safety

Multimodal accommodations/improvements

Congestion management

Resiliency

Connectivity

Equity

Planning Coordination

Urban/rural/transitioning

Environmental/Ecological

Functional Class/Freight Network/Evacuation Routes

Planning Factors – Roadway projects Expand, Manage, Maintain (DRAFT)

Safety

- 1 Is the proposed project a construction of a new roadway in new location (Y/N)
- 2 What is the expected functional classification of the existing or new roadway (Freeways/Principal arterial/minor arterial/major collector)
- 3 If yes, to question 1 respond to questions 4 & 5 based on a parallel facility to which the proposed new roadway will provide an alternative route choice
- 4 If no, to question 1 what is the estimated expected crashes (crashes the have primary contributing factors impaired driving or speeding) without improvement based on estimated VMT in year open to traffic
- 5 If no, to question 1 what is the estimated expected crashes (crashes the have primary contributing factors impaired driving or speeding) with improvement based on estimated VMT in year open to traffic

Planning Factors – Roadway projects Expand, Manage, Maintain (DRAFT)

Multimodal improvements (non freeways) - Pedestrian

- 1 Is the proposed project a construction of a non freeway in new location (Y/N)
- 2 If no, does the road facility have existing sidewalk (Y/N)
- 3 If yes, to question 2 does the proposed project improve existing sidewalks (Y/N)
- 4 If yes, to question 3 does the proposed project rebuild/repair existing sidewalk to current standers (ADA requirements)
- 5 If yes, to question 2 does the proposed project expand (widen or extend (width <5ft-0, \geq 6ft-1, \geq 8ft-2, \geq 10ft- 3) sidewalk
- 6 If no, to question 2 does the proposed project provide new sidewalk (Y/N)
- 7 If yes, to question 6 does the proposed project provide sidewalks (width <5ft-0, \geq 6ft-1, \geq 8ft-2, \geq 10ft- 3) additional 1 point for new sidewalks in both directions

Planning Factors – Roadway projects Expand (DRAFT)

Multimodal improvements (non freeways) - Pedestrian

8 If yes, to question 1 does the proposed project (new roadway) provide new sidewalks (Y/N) (width <5ft-0, > 6ft-1, > 8ft-2, > 10ft- 3)

9 If yes, to question 8 does the proposed project (new roadway) provide new sidewalks in one or both directions (width <5ft-0, > 6ft-1, > 8ft-2, > 10ft- 3 or extension of existing)

Planning Factors – Roadway projects Expand, Manage, Maintain (DRAFT)

Multimodal improvements (non freeways) - bicyclist

- 1 Is the proposed project a construction of a non freeway in new location (Y/N)
- 2 If no, does the road facility have existing bike share/bike lane (Y/N)
- 3 If yes, to question 2 does the proposed project improve bicycle bike share/bike lane (Y/N)
- 4 If yes, to question 3 does the proposed project expand/extend bike lane/bikeshare lane/wide shoulder ($\geq 3\text{ft}$, $\geq 6\text{ft}$)
- 5 If yes, to questions 3 or 4 does the proposed project provide dedicated bike lane with buffer (Y/N) in one direction or both
- 6 If no, to question 2 does the proposed project provide new bike lane/bikeshare lane/wide shoulder (Y/N)
- 7 If yes, to question 6 does the proposed project provides new bike facility without buffer bike lane/wide shoulder ($\geq 3\text{ft}$, $\geq 6\text{ft}$)
- 8 If yes, to question 6 does the proposed project provides new bike facility without buffer bike lane/wide shoulder ($\geq 3\text{ft}$, $\geq 6\text{ft}$) in one direction or both

Planning Factors – Roadway projects Expand (DRAFT)

Multimodal improvements (non freeways) - bicyclist

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| 9 | If yes to question 1 does the proposed project (new roadway) provide new bike facility (Y/N) |
| 10 | If yes to question 7 does the proposed project (new roadway) provide new facility without buffer dedicated bike lane/wide shoulder (> 3ft, > 6ft) |
| 11 | If yes to questions 7 does the proposed project (new roadway) provides a new bike facility with buffer dedicated bike lane/wide shoulder (> 3ft, > 6ft)) in one direction or both |

Planning Factors – Roadway projects Expand, Manage, Maintain (DRAFT)

Multimodal improvements (non freeways) - Transit

- 1 Is the proposed project a construction of a non freeway in new location (Y/N)
- 2 If no, does the road facility have existing local transit/express/signature/park & ride route (Y/N)
- 3 If yes, to question 2 does the proposed project improve existing transit (Y/N)
- 4 If yes, to question 3 does the proposed project improve transit travel times. Explain how and provide documentation
- 5 Does the proposed project expand transit service by increasing the transit frequency or by providing new transit service that does not exist. Provide documentation

Planning Factors – Roadway projects Expand, Manage, Maintain (DRAFT)

Multimodal improvements (limited access highway/freeway)

- 1 Is the proposed project a construction of a limited access highway in new location (Y/N)
- 2 If no to question 1 does the road facility have existing HOV/Managed/Transit lanes (Y/N)
- 3 If yes to question 2 does the proposed project improve (extend/expand) existing HOV/Managed/Transit lanes (Y/N)
- 4 If yes to question 2 and no to question 3 does the proposed project expand general purpose lanes
- 5 If no to question 2 does the proposed project provide new HOV/Managed/Transit lanes (Y/N)
- 6 In no to questions 2 is the existing facility used by a Park & Ride or commuter bus service

Planning Factors – Roadway projects Expand (DRAFT)

Multimodal improvements (limited access highway/freeway)

- 6 If yes to question 1 does the proposed highway scope include HOV/Managed/Transit lanes

Planning Factors – Roadway projects Expand, Manage (DRAFT)

Congestion management

- 1 Is the proposed project a construction of a new roadway in new location (Y/N)
- 2 If yes, to question 1 respond to questions 3 - 6 based on a parallel facility to which the proposed new roadway will provide an alternative route choice
- 3 If no, to question 1 what is the Planning Time Index 95
- 4 If no, to question 1 what is the Truck Planning Time Index 80
- 5 If no, to question 1 what is the Person Hours of Delay
- 6 If no, to question 1 what is the Truck Person Hours of Delay
- 6 Performance measures are provided in COMPAT 2.0 tool
https://compat.tti.tamu.edu/?region_id=11&year=2019
- 7 What is the estimated delay reduction factor based on FIXiT 2.0 (provided by H-GAC)

Planning Factors – Roadway projects Expand, Manage, Maintain (DRAFT)

Resiliency

- 1 Is the proposed project a construction of a new roadway in new location (Y/N)
- 2 If yes, to question 1 respond to questions 3 & 4 based on a parallel facility to which the proposed new roadway will provide an alternative route choice
- 3 If no, to question 1 what is the criticality of the facility (Low/Moderate/High)
- 4 If no, to question 1 what is the vulnerability of the facility (Low/Moderate/High)
- 5 What is the redundancy score of the existing facility
- 6 Explain how the proposed project will reduce the vulnerability of existing facility or avoid high vulnerability of new facility

Planning Factors – Roadway projects Expand, Manage, Maintain (DRAFT)

Connectivity to Employment Center/Prevents or Eliminates at-grade Railroad Crossings

- 1 Does the proposed project provide direct connection to employment center/jobs (1 point per first 1000 jobs and 1 additional point for every additional 200 jobs within a UZA. 1 point for the first 500 points and 1 additional point for every additional 100 jobs up to 5 points outside of UZA)
- 2 Does the proposed project eliminate or prevent at grade railroad crossing?
- 3 What is the ADT and Truck ADT
- 4 Daily Train traffic (can be found on FRA grade crossings inventory)

Planning Factors – Roadway projects Expand, Manage, Maintain (DRAFT)

Transportation Equity

- 1 Does the proposed project improve access and connectivity to EJ sensitive areas (Y/N)
- 2 Does the proposed project expand or improve active transportation (bike/Ped) facilities or transit connectivity to EJ sensitivity areas (Y/N)
- 3 What is the average block group vulnerable population index (0-20, >20-40, >40-60, >60-80, 80-100)
- 4 Block group vulnerability index can be found at regional equity tool interactive web map located at <https://datalab.h-gac.com/equity/>
- 5 Does the proposed project implementation result in relocation of household in EJ sensitive areas

Planning Factors – Roadway projects Expand, Manage, Maintain (DRAFT)

Planning Coordination

- 1 Is the proposed project listed in RTP (Y/N)
- 2 Is the proposed project recommended in a regional/subregional/local plan
- 3 Does the proposed project intersect with or affect operations of transportation assets maintained or operated by agencies other than the sponsor (Y/N)
- 4 If yes to question 3 is the proposed project supported by another agency

Planning Factors – Roadway projects Expand, Manage, Maintain (DRAFT)

Urban/Rural area

1 Is the proposed project located inside the urbanized area boundary (Y/N)

2 Does the proposed project provide access and connectivity to small cities and towns outside of urbanized area announced developments

3 Does the proposed project provide access and connectivity to announced developments

Planning Factors – Roadway projects Expand, Manage, Maintain (DRAFT)

Functional class/Evacuation Route/Freight Network

- 1 Please select the functional classification of the roadway on which the proposed project is located, based on the characteristics of the roadway after the project is implemented. The FHWA Highway Functional Classification Concepts, Criteria and Procedures is provided in the link below. (Principal arterial/Minor Arterial/Major Collector)
- 2 Is your project located on one of the following? Urban or rural critical freight corridors/regional freight network/Evacuation routes
- 3 What is the estimated ADT, Truck ADT

Planning Factors – Roadway projects Expand, Manage, Maintain (DRAFT)

Maintenance

- 1 Does the sponsor of the proposed project have a documented maintenance plan for the project, or the sponsor agency have an asset management plan
 - 2 Please provide a a copy of the agency asset management plan
 - 3 Is the maintenance budget included in the proposed project budget
- Ecological/environmental evaluation criteria based on ecological tool (RFI report)

Planning Factors – Roadway projects Maintain (DRAFT)

Maintenance

- 1 Does the sponsor of the proposed project have a documented maintenance plan for the project, or the sponsor agency have an asset management plan
- 2 Please provide a a copy of the agency asset management plan
- 3 Is the maintenance budget included in the proposed project budget

Planning Factors – Roadway projects Expand (DRAFT)

- Ecological/environmental evaluation criteria based on ecological tool (RFI report)
- Expand projects

Draft Timeline

July	Begin discussions on investment criteria and establish working group
August-October	Continue discussions on investment criteria Update on the Benefit/Cost Analysis review Input from other Subcommittees
November	TAC Mid-point Progress Report (Information)
December - May	Continue development of draft evaluation criteria and selection process with TIP Subcommittee
June	TAC/TPC review of draft evaluation criteria and selection process (Information)
July 2021	Final draft evaluation criteria and selection process to TAC/TPC (Action)