Metropolitan Transportation Plan (MTP) 2050 Project Evaluation Framework – Follow-Up
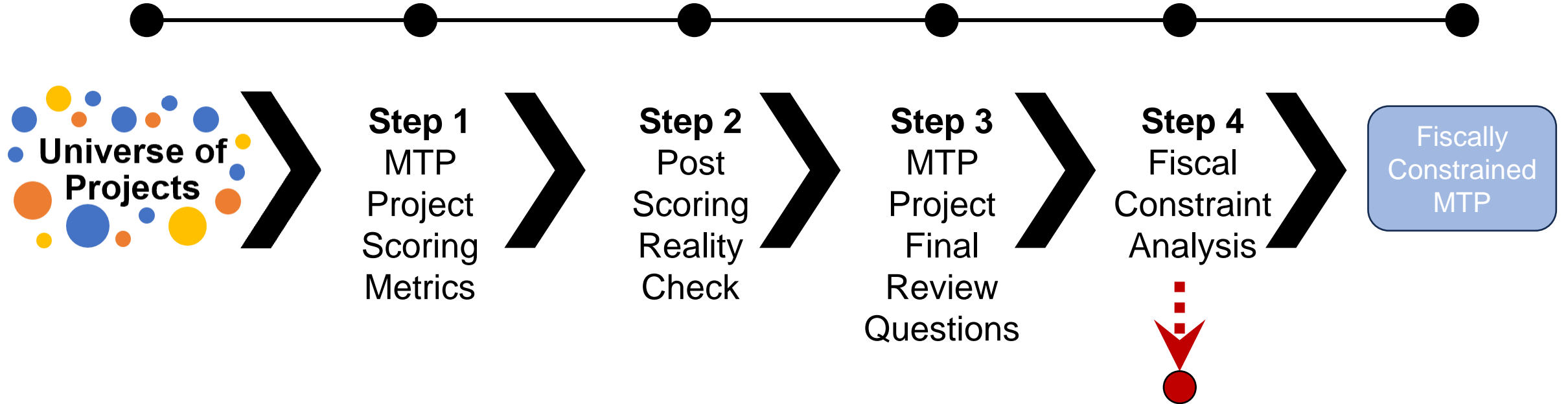
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Key Assumptions

- The scoring is intended to enhance the project evaluation and overall alignment with the MTP vision and goals

- The data-driven scoring is <u>one</u> tool to inform the selection of regionally significant projects

- The highest scoring project(s) will not necessarily end up in the MTP fiscally constrained plan

- This is a starting point for performance-based planning

MTP Project Scoring Approach

Universe of Projects

> **Step 1**
> MTP Project Scoring Metrics

> **Step 2**
> Post Scoring Reality Check

> **Step 3**
> MTP Project Final Review Questions

> **Step 4**
> Fiscal Constraint Analysis

Fiscally Constrained MTP

Regionally significant, <u>unfunded projects</u>, can be added to an **illustrative project list**

Universe of Projects

- Jurisdictional submittals
- Deferred projects
- Regionally studied investments
- MTP evaluation identifies a system need(s)
- Visionary ideas to improve the transportation system
  - for study or future project consideration

MTP Project
Scoring Metrics (Step 1)

ID	MTP Project Scoring Metric	Quantification / Threshold	Methodology Notes
1	**Number of Bike/Pedestrian Crashes** (supports a PM1 target)	Range of thresholds with scores (Max = 15 points)	200-foot buffer around each project; count all bike and ped crashes within each buffer
2	**Fatal and Serious Injury Vehicle Crashes** (supports a PM1 target)	Range of thresholds with scores (Max = 15 points)	200-foot buffer around each project; count all severe and fatal crashes within each buffer
3	**Existing Level of Service (LOS)** (identify current areas within the MIC area that are experiencing operational deficiencies) <50% means that road is at 50% or less of its total capacity LOS is determined by comparing model results and AADT to the total capacity of the road segment	Range of thresholds with scores (Max = 10 points)	Use baseline existing year travel demand model run to determine level of service being addressed by project (MIC V/C ratios used in previous plan would be used); could potentially add another scoring category to identify higher over-capacity segment
4	**Future Year (2050) LOS** (identify future areas within the MIC area that are projected to be experiencing operational deficiencies)	Range of thresholds with scores (Max = 10 points)	Use 2050 E+C travel demand model run to determine level of service for the project. Same note as previous for the thresholds
5	**Community Connectivity** (identifying community resources in close proximity to the project; connecting people with community resources)	Range of thresholds with scores (Max = 10 points)	Use community layer to compute number of schools, churches, parks, community centers within a 400-foot buffer of the project
6	**Multimodal Connectivity** (identifying existing dedicated pedestrian, bicycle, and transit options in close proximity to the project)	Range of thresholds with scores (Max = 15 points)	Use existing layers to compute number of existing dedicated pedestrian ways, bicycle lanes/ways, and transit routes within a 400-foot buffer of OR intersecting the project
7	**Short-Trip Analysis** (1-mile and 3-miles analysis; could do two separate metrics...one for 1-mile and one for 3-miles – perhaps 1.5 mile analysis instead of 1 and 3???)	Range of thresholds with scores (Max = 10 points)	Create 200-ft buffer around project; score is assigned based on the Replica data for short-trips. Higher density of short-trips receives a higher score.
8	**Challenging Areas or Potential 'Fatal Flaws'** (Is a project likely to impact or be impacted by floodplains, historical areas, steep sloops, parks, lakes, rivers, outstanding or exceptional resource waters, wetlands, habitat restoration areas?)	Range of thresholds with scores (Max = 15 points)	Count intersection of project with floodplains, historical areas, steep sloops, parks, lakes, rivers, outstanding or exceptional resource waters, wetlands, habitat restoration areas. Must have all these layers available

MTP Project Scoring Metrics – Step 1

ID	MTP Project Scoring Metric	Thresholds	Score
1	**Number of Bike/Pedestrian Crashes** (supports a PM1 target)	0 1-2 3-4 >4	0 5 10 15
2	**Fatal and Serious Injury Vehicle Crashes** (supports a PM1 target)	0 1-3 4-6 >6	0 5 10 15
3	**Existing Level of Service (LOS)** (identify current areas within the MIC area that are experiencing operational deficiencies) <50% means that road is at 50% or less of its total capacity LOS is determined by comparing model results and AADT to the total capacity of the road segment	A+B (<50%) C (<70%) D (<90%) E (<110%) F (>110%)	0 4 6 8 10
4	**Future Year (2050) LOS** (identify future areas within the MIC area that are projected to be experiencing operational deficiencies)	A+B (<50%) C (<70%) D (<90%) E (<110%) F (>110%)	0 4 6 8 10
5	**Community Connectivity** (identifying community resources (schools, churches, parks, community centers, etc) in close proximity to the project; connecting people with community resources)	0 1-3 >3	0 5 10
6	**Multimodal Connectivity** (identifying existing dedicated pedestrian, bicycle, and transit options in close proximity to the project)	0 1-2 3-4 >4	0 5 10 15
7	**Short-Trip Analysis** (1-mile and 3-miles analysis; could do two separate metrics...one for 1-mile and one for 3-miles) perhaps 1.5 mile analysis instead of 1 and 3???	?	?
8	**Challenging Areas or Potential 'Fatal Flaws'** (Is a project likely to impact or be impacted by floodplains, historical areas, steep sloops, parks, lakes, rivers, outstanding or exceptional resource waters, wetlands, habitat restoration areas?)	0 1-2 3-4 >4	15 10 5 0

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MTP Post Project Scoring Reality Check (Step 2)

MTP Project Final Review – Step 3

ID	MTP Project Final Review Question	Threshold	Scores
1	Will the project include a robust public engagement component/opportunity from its onset?	Y/N	Y = 5, N = 0
2	Does the project maintain critical infrastructure to ensure good condition and performance?	Y/N	Y = 5, N = 0
3	Does the project help build or expand resiliency within the transportation system?	Y/N	Y = 5, N = 0
4	Does the project design specifically incorporate snow storage for year-round use and maintenance?	Y/N	Y = 5, N = 0
5	Does the project include a stormwater management feature, rain garden, or other "green infrastructure"?	Y/N	Y = 5, N = 0
6	Does the project directly include additional or improved pedestrian facility integration or connection within the transportation system?	Y/N	Y = 5, N = 0
7	Does the project directly include additional or improved bike facility integration or connection within the transportation system?	Y/N	Y = 5, N = 0
8	Does the project directly include additional or improved micromobility facility integration or connection within the transportation system?	Y/N	Y = 5, N = 0
9	Does the project help meet a specific local bike plan and/or pedestrian plan goal(s)?	Y/N	Y = 5, N = 0
10	Does the project intentionally improve connection between transit and other modes of transportation through sidewalk extension to bus stops, additional and/or improved bus stops, bike parking options near transit stop, park and ride associated with transit, etc.?	Y/N	Y = 5, N = 0
11	Does the project intentionally improve accessibility for older adults, children, and/or persons with disabilities?	Y/N	Y = 5, N = 0
12	Does the project expand and/or improve transportation options for disadvantaged populations?	Y/N	Y = 5, N = 0
13	Will the project have a direct or indirect benefit on the human health, environmental, social, and economic components of minority populations and/or low-income populations?	Y/N	Y = 5, N = 0
14	Does the project directly address a known safety problem?	Y/N	Y = 5, N = 0
15	Does the project include technology designed to intentionally improve efficient use and/or safety of the system?	Y/N	Y = 5, N = 0
16	Does the project directly help to meet a goal of a local emergency response plan?	Y/N	Y = 5, N = 0
17	Does the project intentionally help meet a goal(s) of a local or state transportation safety plan, and/or incorporate FHWA Proven Safety Countermeasures?	Y/N	Y = 5, N = 0
18	Does the project intentionally help meet a goal(s) of a local small area plan or similar type plan?	Y/N	Y = 5, N = 0
19	Does the project intentionally help meet a goal(s) of a local economic development or strategic plan, including the D-S Port Land Use Plan or other port economic development or strategic plan?	Y/N	Y = 5, N = 0
20	Does the project intentionally improve access, mobility, and travel connections across all freight modes for the movement of goods throughout and across the system?	Y/N	Y = 5, N = 0

MTP Project Final Review – Step 3

MTP Project Final Review Questionnaire for Jurisdictions

This questionnaire is to be completed for each project that moves forward following the MTP Project Scoring Metrics and Post Scoring Reality Check (Steps 1 and 2 of the MTP Project Evaluation Framework). *Complete a separate questionnaire for each project.*

Project Name: _____

Specific Project Location: _____

ID	MTP Project Final Review Question	Threshold (circle)	Scores (Y = 5, N = 0)
1	Will the project include a robust public engagement component/opportunity from its onset? *If yes, what public engagement component or opportunity will be provided?*	Y N	
2	Does the project maintain critical infrastructure to ensure good condition and performance? *If yes, what infrastructure is to be maintained and what maintenance is planned?*	Y N	
3	Does the project help build or expand resiliency within the transportation system? *If yes, how will the project help build or expand resiliency within the system?*	Y N	
4	Does the project design specifically incorporate snow storage for year-round use and maintenance?	Y N	
5	Does the project include a stormwater management feature, rain garden, or other "green infrastructure"? *If yes, what stormwater management feature, rain garden, or other "green infrastructure" will the project include?*	Y N	
6	Does the project directly include additional or improved pedestrian facility integration or connection within the transportation system? *If yes, what specific pedestrian facilities will be integrated or connected within the system through this project?*	Y N	

What's Next?

Next week

- AECOM will start scoring the proposed/submitted projects

April

- Send out initial scores to TAC members (about one week before TAC)

- TAC Meeting/Workshop – Present and discuss project scoring results & Start Step 2 Reality Check

- Jurisdictions complete Step 3 Questionnaire by end of April

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Questions / Discussion