Appendix C

Information to support board action on Visualize 2045: Regional and Federal Policy Alignment for All Projects

Projects in Montgomery County, Maryland

MEMORANDUM

TO: Transportation Planning Board

FROM: Stacy Cook, TPB Transportation Planner/Long-Range Transportation Plan Manager

SUBJECT: Information to support board action on Visualize 2045: Regional and Federal Policy Alignment for All Projects

DATE: May 13, 2021

At its June 2021 meeting, the TPB staff will ask the board to approve the inputs to the air quality conformity analysis (conformity analysis) of the long-range transportation plan (Visualize 2045) and Transportation Improvement Program (TIP) and the scope of work for the conformity analysis. They will also be asked to accept the comments from the 2021 comment period on these inputs, in the form of the comment /response summary.

Please note, the projects proposed to be included in the air quality conformity analysis are a subset of projects in Visualize 2045 and TIP. Not all projects in the plan and TIP can, nor should be, included in the conformity analysis. Federal conformity analysis regulations inform the projects and programs to be included in the analysis and publishes a list of projects that are exempt from such analysis. Also, the inputs, assumptions, and methodology used to conduct the conformity analysis are guided by the federal requirements to ensure that estimated levels of criteria pollutants comply with the federally established emissions levels.

This memorandum and its associated appendices with the responses to policy questions (32-45 of the Technical Inputs Solicitation) for all capital projects provide information to assist board members as they continue their review and discussions, from last month, of the projects proposed to be included in the regional conformity analysis. The focus of the last month's review and discussions were the policy related information sought for the various projects.

Project Inputs for Conformity Analysis

The Technical Inputs Solicitation document was approved by the TPB on December 20, 2020. The document provides an overview of the process used by TPB to solicit technical inputs (projects, programs and policies) to be included in Visualize 2045, the TIP and the conformity analysis. The solicitation documents place a particular emphasis on projects that would have to be included in the regional air quality conformity analysis.

Regionally Significant Projects

Federal regulations (40.CFR.Part 93), based in the Clean Air Act Amendments (section 176(c); 42 U.S.C. 7506(c)), prescribes the process and method for conformity. These regulations dictate that "regionally significant projects" shall be included in the conformity analysis. While all projects across our region are important because of the local and regional benefits they provide, the term 'regional significance' has a specific meaning as used by the TPB and the federal agencies in reference to air quality conformity.

The definition from federal regulation document (40 CFR § 93.101) is:

> "Regionally significant project means a transportation project (other than an exempt project) that is on a facility which serves regional transportation needs (such as access to and from the area outside of the region, major activity centers in the region, major planned developments such as new retail malls, sports complexes, etc., or transportation terminals as well as most terminals themselves) and would normally be included in the modeling of a metropolitan area's transportation network, including at a minimum all principal arterial highways and all fixed guideway transit facilities that offer an alternative to regional highway travel."

At the TPB, the staff interpret this definition for the purposes of the technical inputs solicitation as below, irrespective of the funding used for the project.

1) Any project on a facility that is included in the TPB model's coded regional network that adds or removes at least one continuous vehicular lane from one major road to the next, or adds a new access/egress location or capacity; or
2) Any transit project that adds or modifies fixed-guideway transit facilities (heavy rail, light rail, streetcar, bus rapid transit).

These technical inputs are what the TPB staff include in the air quality conformity project input tables which the TPB staff makes available for comment. After this review the TPB staff asks the TPB to approve the projects along with the scope of work to conduct the conformity analysis so that the required analysis may begin. While the TPB periodically conducts studies to explore alternative or aspirational scenarios regarding future land use, travel demand, transportation projects, programs, policies and fuel types to identify strategies for future implementation, the air quality conformity analysis must be based on official latest planning assumptions with a demonstration of the funding availability to implement all projects, programs and policies assumed in the conformity analysis.

TPB Policy Framework and Federal Planning Factors

The TPB's Visualize 2045 includes a policy element that informs its planning and programming activities. There are a set of documents that comprise this policy framework communicating the region's transportation goals, priorities, and needs that member agencies ought to consider making transportation investment and implementation decisions on projects that have to be part of the regional plan and TIP. The TPB takes strides to achieve its goals and address its priorities through the projects, programs, and policies in Visualize 2045.

Additionally, federal law identifies a list of planning factors meant to guide metropolitan planning. Collectively, the projects, programs, and policies in Visualize 2045 must address these factors. Please visit Visualize2045.org to learn more about these planning factors. A summary of these policy elements is included in each of the appendices.

REGIONAL AND FEDERAL POLICY QUESTIONS AND RESPONSES

The TPB's project description form has several questions needed to help staff develop the Plan, TIP and prepare for the conformity analysis. Among these, questions 32 thru 45 relate to the TPB's policy priorities and federal planning factors. When projects are submitted to the TPB through the technical inputs solicitation process, the sponsoring agency technical staff are asked to provide

responses these policy questions. The responses help the project sponsor communicate how the project supports the TPB goals, Aspirational Initiatives, and the federal planning factors. A listing of the policy questions is included in each appendix. While most questions are binary (yes/no), four questions seek narrative responses to explain if and how the project addresses issues of equity, greenhouse gas reduction, and how it supports the Aspirational Initiatives and TPB goals. Not all projects that were reviewed by the TPB members during their April work session had this information.

While agencies were asked to provide these responses, by April 1, for all new projects and existing projects for which major changes were being proposed, agencies had requested and secured additional time (end of April) to provide the information for remaining projects that were in previous editions of the plan. All of the information received for the policy questions, for existing and new projects, have now been compiled for the board's use. Given the large number of projects, the information has been arranged and included in appendices and tables. The following section is a guide on how to use the appendices and tables.

VISUALIZE 2045 UPDATE: PROJECT LEVEL POLICY QUESTIONS AND RESPONSES

For each existing or proposed project, staff from the sponsoring agencies have responded to policy questions including narrative responses. These responses are listed in tables 1-4 as described below.

The projects listed are the same in each table 1-4. These tables are mapped against the policy questions of the Technical Inputs Solicitation document, showing how projects support:

- Table 1: the goals of the TPB's Regional Transportation Priorities Plan (regional policy questions 32-42 that require a binary response)
- Table 2: Aspirational Initiatives, (regional policy question 43, binary response)
- Table 3: Federal Planning Factors (federal policy question 45, binary response).
- Table 4: narrative responses
    - If a person that reviews the binary responses in the matrices would like more information, the following questions include a narrative response:
        - equity (question 34b),
        - GHG reduction (question 40b),
        - support for the Aspirational Initiatives (44a) or
        - the regional goals (44b).

Each project has a project identification number listed, to quickly find this project across the various tables, this number is a useful reference. *(Hint: If one views the file on a computer, use of a search feature (such as pressing control+f on the keyboard) to search this project number, to expedite one finding the same project throughout the document).*

Organization of the Appendices:

Each appendix starts with this memorandum, followed by the TPB policy summary and questions, then the responses in summary tables 1-4. The sponsoring agency(ies) provided the yes/no and written responses for each project for questions 32-45 for each project. The TPB staff facilitated the administrative development of appendices A-K to present the capital projects (existing and proposed, by geographic area) in Visualize 2045 and the TIP.

The appendices are organized by state and county for projects that are within those geographies (in other words, the projects are organized by geography, not lead agency). Appendix A-K include this memorandum and the policy framework and questions. To find state-level projects that traverse more than one jurisdiction please see the MDOT and VDOT multijurisdictional appendices E and K. Not all geographies, jurisdictions or member agencies have projects that must be in the constrained element of Visualize 2045. Some agencies, such as WMATA, may not have projects listed in the constrained element but do have regular activity such as WMATA maintenance and vehicle replacement programs which are not listed here. To learn more about local or operational projects, please visit the local jurisdiction's or agency's website.

All of the appendices can be found by online by clicking here or using the following webpage: https://www.mwcog.org/documents/2021/05/12/information-to-support-board-action-on-the-update-to-visualize-2045-regional-and-federal-policy-alignment-for-all-capital-projects-tpb-visualize-2045/

APPENDIX	CONTENT	JURISDICTION
A	Responses to policy questions in Tables 1 thru 4	District of Columbia
B	As above	Frederick County
C	As above	Montgomery County
D	As above	Prince George's County
E	As above	Multi-jurisdictional projects in Maryland/MARC [1]
F	As above	City of Alexandria
G	As above	Arlington County
H	As above	Fairfax County
I	As above	Loudoun County
J	As above	Prince William County and the City of Manassas
K	As above	VDOT / VDRPT / VRE/ multiple jurisdiction/owner projects

HOW TO USE THE APPENDICES

Overview:

- If there is a particular area of the region you are interested in, find the appendix by state/county.
- If there is a particular type of project you are interested in, note each table lists projects in categories of roadway or transit as the primary project types, many of these projects also include bicycle and pedestrian improvements as indicated in Table 1.
- If there is a particular type of question you are interested in, see the guidance above as to what questions are addressed in Tables 1-4.

[1] Note, while the local government is advancing transportation projects in Charles County and the Maryland Department of Transportation (MDOT) has projects that traverse the county, there is not a county-specific appendix. Please see the Appendix E for the projects that traverse Charles County.

Regional and Federal Policies

Regional Policy Framework and Priorities

The TPB's LRTP seeks to respond to both federal requirements and its own adopted set of policy goals and priorities. To a large extent, federal and regional goals intersect. The following pages summarize the federal requirements and the region's policy goals.

The TPB has worked continually to develop and adopt a set of consensus-based policy goals and priorities to inform local decision making on the types of projects, programs and polices it seeks for its LRTP and TIP. The Vision, adopted in 1998, is the overarching policy document that describes regional goals and objectives as well as strategies to achieve them. This vision informed the 2014 Regional Transportation Priorities Plan. The vision and goals focus on multimodal transportation solutions that give people greater choice in finding the travel mode that works best for them. It emphasizes the important role of land-use, especially strengthening the region's Activity Centers by providing high-quality connections between centers and improving non-auto travel options within them. System maintenance is also paramount, recognizing that our existing roadways and transit systems must be in a state of good repair to be safe, efficient, and reliable.

Climate Resiliency

In 2010, the TPB joined MWCOG's action to set greenhouse gas (GHG) reduction targets to mitigate the impact of climate change. Over the last decade the TPB completed two studies to evaluate strategies to address these targets, including the What Would It Take analysis and the Multisector Working Group study that identified the various types of projects, programs and policies that have the greatest potential to reduce GHG in the transportation sector.

In October 2020, the TPB endorsed new interim GHG reduction goals and new climate resiliency goals. These include a 2030 interim regional greenhouse gas reduction goal of 50% below 2005 levels by 2030; the region's climate resilience goals of becoming a Climate Ready Region and making significant progress to be a Climate Resilient Region by 2030; and the need to incorporate equity principles and expand education on climate change into CEEPC, COG and TPB members' actions to reach the climate mitigation and resiliency goals. This will require a reduction in vehicle miles traveled and associated emissions in Visualize 2045.

Equity

In 2020, the TPB established equity as its fundamental value and as an integral part of all its activities and decisions. TPB asks the member agencies explicitly consider the equity impacts of the projects, programs and policies that they sponsor and propose for inclusion in the TPB's LRTP.

Strategies for our Future: Seven Aspirational Initiatives

In 2018, the TPB adopted seven transportation initiatives grounded in the TPB's Vision to advance the Regional Transportation Priorities Plan. TPB noted that these ideas, if funded and enacted, would have the potential to significantly improve the region's transportation system performance compared to current plans and programs. The realization of these initiatives would not only improve mobility, accessibility and air quality in the region it would also contribute to the region's greenhouse gas reduction and climate resiliency goals.

The seven Aspirational Initiatives are:

1. **Bring Jobs and Housing Closer Together** by having more housing and jobs in central locations to take advantage of underused Metro stations and reducing single occupant auto commute trips.
2. **Expand Bus Rapid Transit and Transitways** throughout the region to provide people not only more transit options but also a reliable and fast bus service for work and non-work trips.
3. **Move More People on Metrorail**, having restored it to an excellent state of good repair, provide more frequent services with longer trains and expanded stations that are accessible by non-motorized modes.
4. **Provide More Telecommuting and Other Options for Commuting** to take advantage of the many jobs suitable to telework and provide employees with transit and non-motorized travel benefits and disincentivize commute parking.
5. **Expand Express Highway Network** strategically, in an environmentally sensitive manner to create a network that connects much of the region, with express bus systems operating and where carpools and vanpools are exempt from tolls.
6. **Improve Walk and Bike Access to Transit,** as investments that remove barriers to walking and biking to transit stations not only help to reduce auto travel but also helps to fully utilize the investments already made in high capacity transit.
7. **Complete the National Capital Trail Network** to create an extensive network of trails that provides walk and bicycle access to jobs and other activities by connecting communities across the region to activity centers.

The project submission form seeks detailed project information that will help staff assess how the next set of projects in the LRTP and TIP address regional priorities and federal planning requirements.

Through this project technical inputs solicitation process the TPB requires its member agencies to prioritize investments on projects, programs, and policies to reduce greenhouse gas emissions, prioritize the aspirational strategies, and achieve COG's land use and equity goals as they submit their inputs for inclusion in the TPB's LRTP and TIP.

Shared Regional Goals and Priorities

When agencies submit new projects, policies or programs for inclusion in the Visualize 2045 update, they will be asked to document how the initiatives support or advance regional goals, including equity and climate considerations, as shown in the table below. Agencies will also be asked how projects implement the Aspirational Initiatives.

Provide a Comprehensive Range of Travel Options	• Does this project promote non-auto travel or can it be expected to reduce VMT? Identify all travel mode options that this project provides, enhances, supports or promotes. • Is this project physically in an Equity Emphasis Area (EEA)? How does it improve equity? • Does this project improve accessibility for historically transportation-disadvantaged individuals (i.e., persons with disabilities, low incomes, and/or limited English proficiency)?
Promote Regional Activity Centers	• Does this project begin or end in an Activity Center? • Does this project connect two or more Activity Centers? • Does this project promote non-auto travel within one or more Activity Centers? • Does this project connect an Equity Emphasis Area to an Activity Center?
Ensure System Maintenance, Preservation, and Safety	• Does this project contribute to enhanced system maintenance, preservation?
Maximize Operational Effectiveness and Safety	• Is this project primarily designed to reduce travel time on highways and/or transit without building new capacity (e.g., ITS, bus priority treatments, etc.)? • Is this project expected to significantly reduce fatalities or injuries among motorists, transit users, pedestrians, and/or bicyclists?
Protect and Enhance the Natural Environment	• Is this project expected to contribute to reductions in emissions of criteria pollutants, specifically, to attainment of ozone levels consistent with the National Ambient Air Quality Standard (NAAQS)? • Is this project expected to contribute to meeting the regional goal of reducing greenhouse gasses by 50% below 2005 levels by 2030?
Support Interregional and International Travel and Commerce	• Does this project enhance, support, or promote the following freight carrier modes: long-haul truck, local delivery, rail, or air freight carrier modes? • Does this project enhance, support, or promote the following passenger carrier modes: air, Amtrak intercity passenger rail, intercity bus?

Federal Requirements and Policy Considerations

Visualize 2045 meets all federal requirements for a Metropolitan Planning Organization's long-range plan and was approved by the Federal Highway Administration and the Federal Transit Administration in December 2018. Any updates to Visualize 2045 must continue to meet these federal requirements in order to receive federal approval and for federal funding to flow to transportation projects in our region. The two main requirements are that the plan must:

- Identify all regionally significant projects and programs for which funding is reasonably expected to be available between now and 2045. Regionally significant projects and programs are those that add or remove capacity on the existing transportation system.
- Demonstrate that these projects and programs together support regional air quality improvement goals. An official Air Quality Conformity Analysis carried out by the TPB must show that forecast vehicle-related emissions under the plan will not exceed approved regional limits.

Under federal law, the plan must also address ten federal planning factors, as identified by the U.S. Department of Transportation (USDOT). (See sidebar)

Updates to the constrained element of Visualize 2045 must meet a number of other federal requirements as well, including non-discrimination and equity, congestion management documentation, public participation, and others. For a full listing of these requirements, refer to the Resources and Maps section of this document.

FEDERAL PLANNING FACTORS

Federal law also identifies a list of planning factors meant to guide metropolitan transportation planning. Collectively, the projects, programs, and policies in Visualize 2045 must address these factors. Agencies will therefore be asked to identify which of the federal.

1. Support the economic vitality of the metropolitan area, especially by enabling global competitiveness, productivity, and efficiency;
2. Increase the safety of the transportation system for all motorized and non-motorized users;
3. Increase the ability of the transportation system to support homeland security and to safeguard the personal security of all motorized and non- motorized users;
4. Increase accessibility and mobility of people and freight;
5. Protect and enhance the environment, promote energy conservation, improve the quality of life, and promote consistency between transportation improvements and State and local planned growth and economic development patterns;
6. Enhance the integration and connectivity of the transportation system, across and between modes, for people and freight;
7. Promote efficient system management and operation;
8. Emphasize the preservation of the existing transportation system;
9. Improve resiliency and reliability of the transportation system and reduce or mitigate stormwater impacts of surface transportation (New under the FAST Act); and
10. Enhance travel and tourism. (New under the FAST Act)

Regional Policy & Federal Planning Factor Support

The questions in this section address the goals identified in the Regional Transportation Priorities Plan (RTPP). Question 39 should be used to provide additional context of how this project supports the TPB Aspirational Initiatives the RTPP goals or other regional needs identified in the Technical Inputs Solicitation Project Submission Guide.

32. **Non Auto Travel** a. — Does the project promote non-auto travel or can it be expected to reduce VMT?

b. Transportation Options — Identify all travel mode options that this project provides, enhances, supports, or promotes.

- Single Driver
- Carpool/HOV
- Metrorail
- Commuter Rail
- Streetcar/Light Rail
- Walking
- BRT
- Express/Commuter Bus
- Metrobus
- Local Bus
- Bicycling
- Other

33. **Accessibility Improvement** — Does this project improve accessibility for historically transportation-disadvantaged individuals (i.e., persons with disabilities, low-incomes, and/or limited English proficiency?)

34. **Equity Emphasis Areas** a. — Is this project physically in an Equity Emphasis Area (EEA)?

b. Additional Equity Response — Please provide additional written information that describes how this project further supports or advances equity as described by the TPB July 2020 resolution.

35. **Activity Centers** — Indicate if the project begins or ends within an activity center, connects two or more centers, and/or promotes non-auto travel within one or more centers

a. Begins or Ends in — Does this project begin or ends in an Activity Center?

b. Activity Center without — Does this project connect two or more Activity Centers?

c. Non-Auto Travel within — Does this project promote non-auto travel within one or more Activity Centers?

d. EEA-Activity Center Connect — Does this project connect an Equity Emphasis Area to an Activity Center?

36. **Maintenance**	Does this project contribute to enhanced system maintenance or preservation?
37. **Operations and Travel Demand**	Does this project reduce travel time on highways and/or transit without building new capacity, (e.g., ITS, bus priority treatments, etc.)?
38. **Safety**	Is this project expected to significantly reduce fatalities or injuries among motorists, transit users, pedestrians, and/or bicyclists?
39. **Reduce Emissions Pollutants**	Is the project expected to contribute to reductions in emissions of criteria pollutants, specifically, to attainment of ozone levels consistent with the National Ambient Air Quality Standard (NAAQS)?
40. **Reduce Greenhouse Gases** a.	Is this project expected to contribute to reductions in emissions of greenhouse gases by 50% below 2005 levels by 2030?
Additional response. b	If the answer to question #40 regarding contributing to greenhouse gas emission reductions was yes, then how is this project anticipated to reduce emissions? If 'No', please describe how the project will mitigate increased greenhouse gas emissions or vehicle miles traveled.
41. Promotes Freight	This project enhances, supports, or promotes the following freight carrier modes (select all that apply): • Air • Local Delivery • Long-Haul Truck • Rail
42. Passenger Carrier Modes	This project enhances supports, or promotes the following passenger carrier modes (select all that apply): • Air • Amtrak Intercity Passenger Rail • Intercity Bus
43. Aspirational Initiatives	Please check each initiative that is implemented by this project. The aspirational initiatives are: (see next page)

- Bring Jobs and Housing Closer Together.
- Expand Bus Rapid Transit and Transitways Regionwide.
- Move More People on Metrorail.
- Provide More Telecommuting and Other Options for Commuting.
- Expand Express Highway Network.
- Improve Walk and Bike Access to Transit.
- Complete the National Capital Trail Network

44. Additional Policy Framework

a. Please provide additional written information that describes how this project further supports or advances the TPB Aspirational Initiatives.

b. Please provide additional written information that describes how this project further supports or advances other regional goals or needs.

45. Federal Planning Factors

This project supports the following planning factors (select all that apply):

- Emphasize the preservation of the existing transportation system.
- Enhance the integration and connectivity of the transportation system, across and between modes, for people and freight.
- Enhance travel and tourism
- Improve resiliency and reliability of the transportation system and reduce or mitigate stormwater impacts of surface transportation
- Increase accessibility and mobility of people
- Increase accessibility and mobility of freight
- Increases the ability of the transportation system to support homeland security and to safeguard the personal security of all motorized and non-motorized users.
- Increases the safety of the transportation system for all motorized and non-motorized users.
- Promote efficient system management and operation.
- Protect and enhance the environment, promote energy conservation, improve the quality of life and promote consistency between transportation improvements and State and local planned growth and economic development patterns.
- Support the economic vitality of the metropolitan area especially by enabling global competitiveness productivity and efficiently.

TABLE 1
VISUALIZE 2045 UPDATE - PROJECT SUBMISSIONS AND THE REGIONAL TRANSPORTATION PRIORITIES PLAN GOALS

Projects in Montgomery County, Maryland

This matrix provides a visual summary of the responses provided by the relevant implementing agencies as to how their existing and proposed projects and updated projects support the RTPP goals.

Project	Project ID	Goal 1	Non-Auto Travel/Reduce VMT	SOV	HOV	Metrorail	Commuter Rail	Streetcar/Light Rail	BRT	Express/Commuter Bus	Metrobus	Local Bus	Bicycling	Walking	Other	Disadvantaged Groups	Goal 2	In EEA	Begin/End in AC	Connect ACs	Non-Auto w/in AC	Connect EEA to ACs	Goal 3	Maintenance	Goal 4	Reduce Time w/o Capacity	Enhance Safety	Goal 5	Criteria Pollutants	Greenhouse Gases	Goal 6	Long-Haul Truck	Local Delivery	Freight Rail	Freight Air	Air Passenger	Amtrak	Intercity Bus
	Technical Inputs Solicitation Questions 32-42		Question 32 a	Question 32 b	Question 32 b	Question 32 b	Question 32 b	Question 32 b	Question 32 b	Question 32 b	Question 32 b	Question 32 b	Question 32 b	Question 32 b	Question 32 b	Question 33		Question 34 a	Question 35 a	Question 35 b	Question 35 c	Question 35 d		Question 36		Question 37	Question 38		Question 39	Question 40 a		Question 41	Question 41	Question 41	Question 41	Question 42	Question 42	Question 42
Local Streets and Roadways																																						
US 29 Corridor	CEID1197																	X	x	x		x			x			x	x		x	x						
MD 117 Corridor	CEID1203			x	x					x	x	x						X		x		x					x		x	x			x					
MD 97 Corridor	CEID2618			x	x	x					x	x	x	x				X	x	x		x					x		x	x			x					
MD 124 Phases 2-3 Highway Reconstruction	3057			x	x						x	x	x	x													x		x	x			x					
MD 124 Corridor	CEID1206			x	x						x	x	x	x				X				x					x		x	x			x					
MD 97 at Brookeville Highway Construction	3106			x	x																						x		x	x			x					
Naval Support Activity Bethesda BRAC Improvements	CEID2620			x	x	x					x	x	x	x					x	x							x		x	x			x					
MD 97 at MD 28 Interchange	CEID1211			x	x						x	x															x		x	x			x					
US 29 at Stewart Lane, Tech Road, Greencastle Road, and Blackburn Road Interchange Construction	6389																		x	x						x			x	x		x	x					
US 29 at Musgrove and Fairland Roads Interchange Construction	3641																		x	x		x				x			x	x		x	x					
Snouffer School Road North	CEID1236			x									x	x													x											
Middlebrook Road Extended Widening	CEID1229			x									x	x				X	x	x		x				x	x											
Dorsey Mill Road Bridge over I-270	CEID1577			x				x					x	x					x		x					x	x											
MD 355 Phase 2 Highway Reconstruction	3542																																					
Observation Dr Ext	7503																																					
Montrose Parkway East	3703			x									x	x				X	x	x	x	x				x	x											
White Flint District East - Transportation	5985			x						x	x	x	x						x	x	x	x	x		x	x											
White Flint District West: Transportation & West Workaround	5986			x	x	x				x	x	x	x						x	x	x	x	x		x	x											
Transit																																						
MDOT/Maryland Transit Administration	CEID1649		x			x	x		x		x	x				x			x	x	x	x				x			x	x							x	
MD 355 Bus Rapid Transit Study	CEID3424								x														x														x	x	
North Bethesda Transitway Bus Rapid Transit (BRT) Project	CEID3663													x				x	x		x	x		x		x	x			x	x					x	x	
Olney Transit Center	CEID1249																					x	x							x	x							
Randolph Road Corridor Bus Rapid Transit (BRT) Project	CEID3662													x				x	x	x	x	x		x		x	x			x	x					x	x	
Veirs Mill Bus Rapid Transit	CEID3103									x								x	x	x	x	x				x				x	x					x	x	
MD 650 New Hampshire Avenue BRT	CEID3672								x													x															x	x	
Bus Rapid Transit: US 29 - Phase 2	CEID3765								x									x	x	x	x	x				x				x	x							
Veirs Mill Road Bus Enhancement	CEID1253								x		x	x						x	x	x	x	x				x				x	x							
Great Seneca Transit Network	CEID3764																	x	x	x	x					x				x	x							

TABLE 2
VISUALIZE 2045 UPDATE - PROJECT SUBMISSIONS AND THE ASPIRATIONAL INITIATIVES
Projects in Montgomery County, Maryland
This matrix provides a summary of the responses provided by the relevant implementing agencies as to how their existing and proposed projects support the Aspirational Initiatives.

Project	Project ID	Bring Jobs and Housing Closer Together	Expand Bus Rapid Transit and Transitways Regionwide	Move More People on Metrorail	Provide More Telecommuting and Other Options for Commuting	Expand Express Highway Network	Improve Walk and Bike Access to Transit	Complete the National Capital Trail Network
Local Streets and Roadways								
US 29 Corridor	CEID1197						X	
MD 117 Corridor	CEID1203							
MD 97 Corridor	CEID2618						X	
MD 124 Phases 2-3 Highway Reconstruction	3057							
MD 124 Corridor	CEID1206							
MD 97 at Brookeville Highway Construction	3106					X		
Naval Support Activity Bethesda BRAC Improvements	CEID2620						X	
MD 97 at MD 28 Interchange	CEID1211					X		
US 29 at Stewart Lane, Tech Road, Greencastle Road, and Blackburn Road Interchange Construction	6389					X		
US 29 at Musgrove and Fairland Roads Interchange Construction	3641					X		
Snouffer School Road North	CEID1236	X					X	
Middlebrook Road Extended Widening	CEID1229	X					X	
Dorsey Mill Road Bridge over I-270	CEID1577	X	X				X	
MD 355 Phase 2 Highway Reconstruction	3542	X	X				X	
Observation Dr Ext	7503	X	X				X	
Montrose Parkway East	3703	X					X	
White Flint District East - Transportation	5985	X	X	X	X		X	
White Flint District West: Transportation & West Workaround	5986	X	X	X	X		X	
Transit								
Corridor Cities Transitway (CCT)	CEID1649	X	X	X				
MD 355 Bus Rapid Transit Study	CEID3424	X	X	X			X	
North Bethesda Transitway Bus Rapid Transit (BRT) Project	CEID3663	X	X	X			X	
Olney Transit Center	CEID1249	X	X	X			X	
Randolph Road Corridor Bus Rapid Transit (BRT) Project	CEID3662	X	X	X			X	
Veirs Mill Bus Rapid Transit	CEID3103	X	X	X			X	
MD 650 New Hampshire Avenue BRT	CEID3672	X	X	X			X	
Bus Rapid Transit: US 29 - Phase 2	CEID3765	X	X	X			X	
Veirs Mill Road Bus Enhancement	CEID1253	X	X	X			X	
Great Seneca Transit Network	CEID3764	X	X	X			X	

TABLE 3
VISUALIZE 2045 UPDATE - PROJECT SUBMISSIONS AND THE FEDERAL PLANNING FACTORS
Projects in Montgomery County, Maryland

Project	Project ID	Economic Vitality	Safety	Homeland Security	Accessibility/Mobility People	Accessibility/Mobility Freight	Environment	Integration/Connectivity	Management & Operation	Preservation	Resiliency & Stormwater Impact	Tourism
Local Streets and Roadways												
US 29 Corridor	CEID1197	x	x	x	x	x			x			
MD 117 Corridor	CEID1203	x	x		x	x		x	x			
MD 97 Corridor	CEID2618	x	x	x	x		x	x				
MD 124 Phases 2-3 Highway Reconstruction	3057	x	x		x	x	x	x	x			
MD 124 Corridor	CEID1206	x	x		x	x	x	x	x			
MD 97 at Brookeville Highway Construction	3106	x	x	x	x	x	x	x	x	x		
Naval Support Activity Bethesda BRAC Improvements	CEID2620	x	x	x	x			x	x			
MD 97 at MD 28 Interchange	CEID1211	x	x		x	x	x					
US 29 at Stewart Lane, Tech Road, Greencastle Road, and Blackburn Road Interchange Construction	6389	x	x	x	x	x			x			
US 29 at Musgrove and Fairland Roads Interchange Construction	3641	x	x	x	x	x			x			
Snouffer School Road North	CEID1236	x	x		x		x	x				
Middlebrook Road Extended Widening	CEID1229	x	x		x	x		x				
Dorsey Mill Road Bridge over I-270	CEID1577	x	x		x			x				
MD 355 Phase 2 Highway Reconstruction	3542	x	x	x	x		x	x	x			
Observation Dr Ext	7503	x	x	x	x	x		x				
Montrose Parkway East	3703	x	x		x	x		x				
White Flint District East - Transportation	5985	x	x		x		x	x				x
White Flint District West: Transportation & West Workaround	5986	x	x		x		x	x				x
Transit												
Corridor Cities Transitway (CCT)	CEID1649	x	x	x	x		x	x	x	x		x
MD 355 Bus Rapid Transit Study	CEID3424	x	x	x	x	x	x	x	x	x	x	
North Bethesda Transitway Bus Rapid Transit (BRT) Project	CEID3663	x	x	x	x	x	x	x	x	x	x	x
Olney Transit Center	CEID1249	x			x		x		x			
Randolph Road Corridor Bus Rapid Transit (BRT) Project	CEID3662	x	x	x	x		x	x	x	x	x	x
Veirs Mill Bus Rapid Transit	CEID3103	x	x	x	x		x	x	x	x	x	x
MD 650 New Hampshire Avenue BRT	CEID3672	x	x	x	x		x	x	x	x	x	x
Bus Rapid Transit: US 29 - Phase 2	CEID3765	x	x	x	x		x	x	x	x	x	x
Veirs Mill Road Bus Enhancement	CEID1253	x			x		x		x			
Great Seneca Transit Network	CEID3764	x			x		x		x			

Project	Project ID	Question 34b How this project further supports or advances equity as described by the TPB July 2020 resolution.	Question 40b If the answer to question 40a regarding contributing to greenhouse gas emission reduction was yes, then how is this project anticipated to reduce emissions? If No, please describe how the project will mitigate increased greenhouse gas emissions or vehicle miles traveled.	Question 44a How this project further supports or advances the TPB Aspirational initiatives, other regional goals, or needs.	Question 44b How this project further supports or advances other regional goals or needs.
Local Streets and Roadways					
US 29 Corridor	CEID1197	This project connects various Equity Emphasis Areas to employment centers in along the US 29 corridor.	Yes. The project consists of no added capacity and consists of bicycle and pedestrian accommodations.	The project's grade-separated interchanges contribute to a reduction in travel time for north-to-south intra-regional travel along the US 29 corridor.	The project aids in the improved mobility of local and regional users. The project supports the overarching transportation goals of various local comprehensive and sector plans.
MD 117 Corridor	CEID1203	The project traverses various Equity Emphasis Areas and aides in the connection to employment centers.	No. The project will reduce congestion, which serves as a function that contributes to the mitigation of increased greenhouse gas emissions and/or vehicle miles traveled. The project also consists of bicycle and pedestrian accommodations.	The project supports the use of multiple modal options and enhances safety.	The project supports the overarching transportation goals of various local comprehensive and sector plans.
MD 97 Corridor	CEID2618	N/A	Yes. The project consists of a minor addition of capacity and consists primarily of safety and accessibility improvements with bicycle/pedestrian accommodations.	The project supports the use of multiple modal options and enhances safety.	The project supports the overarching transportation goals of various local comprehensive and sector plans.
MD 124 Phases 2-3 Highway Reconstruction	3057	The project traverses portions of various Equity Emphasis Areas and aides in the connection to employment centers.	No. The project will reduce congestion, which serves as a function that contributes to the mitigation of increased greenhouse gas emissions and/or vehicle miles traveled. The project also consists of bicycle and pedestrian accommodations.	The project reduces travel time and enhances safety.	The project supports the overarching transportation goals of various local comprehensive and sector plans.
MD 124 Corridor	CEID1206	The project traverses portions of various Equity Emphasis Areas and aides in the connection to employment centers.	No. The project will reduce congestion, which serves as a function that contributes to the mitigation of increased greenhouse gas emissions and/or vehicle miles traveled. The project also consists of bicycle and pedestrian accommodations.	The project reduces travel time and enhances safety.	The project supports the overarching transportation goals of various local comprehensive and sector plans.
MD 97 at Brookeville Highway Construction	3106	The project traverses portions of various Equity Emphasis Areas and aides in the connection to employment centers.	No. The project will aide in the reduction of congestion, which serves as a function that contributes to the mitigation of increased greenhouse gas emissions and/or vehicle miles traveled. The project also consists of bicycle and pedestrian accommodations.	The project reduces travel time for motorists traveling through Brookeville to get to other destinations and enhances safety.	The project supports the overarching transportation goals of various local comprehensive and sector plans.
Naval Support Activity Bethesda BRAC Improvements	CEID2620	The project aides the in the provision of safe accommodations for bicycles and pedestrians.	Yes. The project consists of at-grade intersection improvements and of safety and accessibility improvements with bicycle/pedestrian accommodations.	The project supports the use of multiple modal options and enhances safety.	The project supports the overarching transportation goals of various local comprehensive and sector plans.
MD 97 at MD 28 Interchange	CEID1211	N/A	Yes. The grade-separated interchange would aide in the reduction of congestion, which serves as a function that contributes to the mitigation of increased greenhouse gas emissions and/or vehicle miles traveled. The project would also consist of bicycle and pedestrian accommodations where they are applicable.	The project's grade-separated interchange contribute to a reduction in travel time, supports the use multiple modal options, and enhances safety.	The project is consistent with the overarching transportation goals of various local comprehensive and sector plans.

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US 29 at Stewart Lane, Tech Road, Greencastle Road, and Blackburn Road Interchange Construction	6389	The proposed interchanges fall within Equity Emphasis Areas and aides in the connection to employment centers.	Yes. The grade-separated interchange would aide in the reduction of congestion, which serves as a function that contributes to the mitigation of increased greenhouse gas emissions and/or vehicle miles traveled. The project would also consist of bicycle and pedestrian accommodations where they are applicable.	The project's grade-separated interchange contribute to a reduction in travel time, supports the use multiple modal options, and enhances safety.	The project is consistent with the overarching transportation goals of various local comprehensive and sector plans.
US 29 at Musgrove and Fairland Roads Interchange Construction	3641	The proposed interchanges fall within Equity Emphasis Areas and aides in the connection to employment centers.	Yes. The grade-separated interchange would aide in the reduction of congestion, which serves as a function that contributes to the mitigation of increased greenhouse gas emissions and/or vehicle miles traveled. The project would also consist of bicycle and pedestrian accommodations where they are applicable.	The project's grade-separated interchange contribute to a reduction in travel time, supports the use multiple modal options, and enhances safety.	The project is consistent with the overarching transportation goals of various local comprehensive and sector plans.
Snouffer School Road North	CEID1236	This project widens an existing road to accommodate development including a relocated County public safety training academy facility. Project includes a shared use path and sidewalks. Project provides access from equity emphasis areas to employment sites.	Project relieves traffic congestion and provides access to economic development. Project includes bicycle and pedestrian facilities with shared use path and sidewalks.	Project improves mobility and accessibility and improves traffic congestion and supports bike and pedestrian access and mobility.	Provides access to new county public safety facility.
Middlebrook Road Extended Widening	CEID1229	The project is within an equity emphasis area and connects MD355 to MK83, Midcounty Highway.	Provides for a new connection from MD355 to M83 that will reduce congestion and VMT. Project includes bicycle and pedestrian facilities.	Project improves mobility and accessibility and improves traffic congestion and supports bike and pedestrian access and mobility	Improve mobility and safety for local travel; Enhance pedestrian, bicycle and vehicular access; Provide connectivity to existing communities on both sides of I-270 in the vicinity of Germantown Town Center, and Accommodate the local Master Plan
Dorsey Mill Road Bridge over I-270	CEID1577	Project connects both sides of I-270 and Germantown east and west. This new connection provides for the Corridor Cities Transitway alignment across I-270.	Provides for a new connection across I-270 that will reduce VMT by providing a direct connection and will provide for the right of way and bridge crossing for the Corridor Cities Transitway.	This project supports expanding BRT and providing high capacity access to BRT and Metrorail.	Improve mobility and safety for local travel, Enhance pedestrian, bicycle and vehicular access, Provide connectivity to existing communities, and Accommodate the local Master Plan
MD 355 Phase 2 Highway Reconstruction	3542	This project provides a grade separation for Montrose Road/Randolph Road over the mainline CSX/MARC tracks in the White Flint area. While this area is not in an equity emphasis area, the traffic congestion relief and vision zero components will benefit all travelers in the county. The route segment is a key regional corridor that connects to the White Flint business center.	This project will build a grade separation over the mainline CSX/MARC tracks and will reduce traffic congestion at the railroad crossing.	Project improves mobility and accessibility and improves traffic congestion and supports bike and pedestrian access and mobility. The main benefit is the elimination of a dangerous road/railroad crossing.	Improve mobility and safety for local travel, Enhance pedestrian, bicycle and vehicular access, and Accommodate the local Master Plan
Observation Dr Ext	7503	This project provides a network connection to support new development and to reduce congestion. Project will improve mobility and accessibility from nearby equity emphasis areas and the project has right of way for the future MD355 BRT.	The project provides a vital network connection that will reduce traffic congestion and provide for the right of way for a new MD355 BRT.	This project supports expanding BRT and providing high capacity access to BRT and Metrorail.	Improve mobility and safety for local travel, Enhance pedestrian, bicycle and vehicular access, and Accommodate the local Master Plan

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Montrose Parkway East -	3703	This project previously provided for a new four-lane divided arterial road as recommended in the 1992 North Bethesda/Garrett Park and 1994 Aspen Hill Master Plans. Planning funds are included to evaluate alternatives that address safety concerns regarding the railroad crossing and general traffic flow in a smaller, less costly manner. Project would connect Veirs Mill Road to White Flint, MD355 and existing roads to I-270. Entire project is in equity emphasis area.	Project is being reevaluated at this time so specific project information is not available.	Project will be evaluated on whether it improves mobility and accessibility and improves traffic congestion and supports bike and pedestrian access and mobility.	
White Flint District East – Transportation	5985	This project is to provide a street network to support the master planned development. The area is not an equity emphasis area but is a major employment center and residential center at Metrorail station	The project provides network connectivity to permit improved traffic flow and bicycle and pedestrian safety. Project is a first step to support master plan improvements to MD355 for BRT	This project supports expanding BRT and providing high capacity access to BRT and Metrorail	Improve mobility and safety for local travel, Enhance pedestrian, bicycle and vehicular access, Provide connectivity to existing communities, and Accommodate the local Master Plan
White Flint District West: Transportation & West Workaround	5986	This project provides for land acquisition, site improvements and utility (SI&U) relocations, construction management and construction for one new road, one new bikeway, one relocated road, and an intersection realignment improvement, and the reconstruction of an existing roadway in the White Flint District area. The area is not an equity emphasis area but is a major employment center and residential center at Metrorail station.	The project provides network connectivity to permit improved traffic flow and bicycle and pedestrian safety. Project is a first step to support master plan improvements to MD355 for BRT	This project supports expanding BRT and providing high capacity access to BRT and Metrorail.	Improve mobility and safety for local travel, Enhance pedestrian, bicycle and vehicular access, Provide connectivity to existing communities, and Accommodate the local Master Plan
Transit					
Corridor Cities Transitway	CEID1649	The project advances equity because it would provide improved access to jobs, commercial activity, and services including healthcare for people who lack access to an automobile.	The project would provide an alternative to travel by automobile. Any trips previously taken by automobile that are then taken utilizing the Corridor Cities Transitway (CCT) would provide a reduction to overall VMT and emissions related to automobile travel.	This project would support the following TPB Aspirational Initiatives by using dedicated transit guideway to connect station areas, including a station co-located with the Shady Grove station serviced by WMATA Metro, that have the potential to generate transit oriented development: 1. Bring Jobs and Housing Closer Together 2. Expand Bus Rapid Transit and Transitways throughout the region 3. Move More People on Metrorail	This project would support the following Shared Regional Goals and Priorities by introducing a new transit option that serves the Gaithersburg Activity Center and Equity Emphasis areas and directly connects to MARC and WMATA Metro service that can connect riders to regional Amtrak service at both Rockville Station and Union Station. Any trips that are currently taken by automobile that are later taken by the Corridor Cities Transitway would both

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MD 355 Bus Rapid Transit Study	CEID3424	MD355 BRT connects several corridor cities including, Gaithersburg and Rockville and portions of White Flint, Twinbrook, Grosvenor, Medical Center and Bethesda. The project connects these communities to high capacity Metrorail, MARC and local transit services and connects high density residential to major activity centers.	Project is in planning and preliminary design phase and will have detailed metrics available as a part of the design and environmental review. This project will increase modal share and decrease dependency on single occupant vehicle travel.	This project directly supports three aspirational initiatives: expand BRT, improve access to Metrorail at Shady Grove Metrorail Station, and improve walk and bike access to transit.	This project will add dedicated transit lanes to the BRT system. Project will encourage modal shift to transit that will improve on congestion and support Vision Zero and greenhouse gas plans and priorities. Project is under study/design and more detailed information should be available when these efforts are completed.
North Bethesda Transitway Bus Rapid Transit (BRT) Project	CEID3663	This project connects either the White Flint or Grosvenor Metrorail Station to the Montgomery Mall Transit Center. This project connects the Red Line and MD355 BRT high capacity transit to employment and shopping and supports transit connections into Virginia along I-270/I-495 HOT Lanes.	This project is included in the County's Master Plans and is scheduled for planning and design in the future.	This project directly supports three aspirational initiatives: expand BRT, improve access to Metrorail, and improve walk and bike access to transit.	This project will add dedicated transit lanes to the BRT system. Project will encourage modal shift to transit that will improve on congestion and support Vision Zero and greenhouse gas plans and priorities. Project is under study/design and more detailed information should be available when these efforts are completed
Olney Transit Center	CEID1249	This project will construct a transit center near Montgomery General Hospital and will serve Ride On service and Metrobus service. Metrobus service connects the regional hospital to the Glenmont Metrorail Station and connects equity emphasis areas of Aspen Hill and Wheaton to Silver Spring. The Metrobus routes are high ridership and frequent service routes.	This project is included in the County's Master Plans and is scheduled for planning and design in the future.	This transit center supports the countywide BRT network, improved access to several Red Line stations, and will improve transit passenger safety and convenience with transit shelters, real time information and improved ped and bike access to the transit center.	Project will encourage modal shift to transit that will improve on congestion and support Vision Zero and greenhouse gas plans and priorities.
Randolph Road Corridor Bus Rapid Transit (BRT) Project	CEID3662	This project is a BRT along Randolph Road that connects Rockville to Glenmont and beyond to White Oak. This is predominately an east west BRT corridor that connects several equity emphasis areas including White Oak/US29 area. The BRT connects major activity centers to residential populations and provides high quality transit connections.	This project is included in the County's Master Plans and is scheduled for planning and design in the future.	This project directly supports three aspirational initiatives: expand BRT, improve access to Metrorail, and improve walk and bike access to transit.	. Project will encourage modal shift to transit that will improve on congestion and support Vision Zero and greenhouse gas plans and priorities. Project is under study/design and more detailed information should be available when these efforts are completed
Veirs Mill Bus Rapid Transit	CEID3103	This project is a BRT between Wheaton and Rockville. At Wheaton, the Veirs Mill BRT connects with the Georgia Avenue BRT and major high ridership bus lines. In Rockville the project will connect to the MD355 BRT and Metrorail and MARC commuter rail service. The Wheaton area is an equity emphasis area and both Rockville and Wheaton are employment activity zones.	Project is in planning and preliminary design phase and will have detailed metrics available as a part of the design and environmental review. This project will increase modal share and decrease dependency on single occupant vehicle travel.	This project directly supports three aspirational initiatives: expand BRT, improve access to Metrorail, and improve walk and bike access to transit	. Project will encourage modal shift to transit that will improve on congestion and support Vision Zero and greenhouse gas plans and priorities. Project is under study/design and more detailed information should be available when these efforts are completed

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MD 650 New Hampshire Avenue BRT	CEID3672	This project is a BRT along New Hampshire Avenue from Ft. Totten Metrorail Station in DC to US29 and beyond. The project will be under planning and preliminary engineering in FY22. This project serves several equity emphasis areas with high quality transit service. New Hampshire Avenue is one corridor that has MetroExtra Service (K9) and K6 service.	This project is included in the County's Master Plans and is scheduled for planning and design in the future.	This project directly supports three aspirational initiatives: expand BRT, improve access to Metrorail, and improve walk and bike access to transit.	Project will encourage modal shift to transit that will improve on congestion and support Vision Zero and greenhouse gas plans and priorities. Project is under study/design and more detailed information should be available when these efforts are completed
Bus Rapid Transit: US 29 - Phase 2	CEID3765	This project would further improve the US29 Flash bus rapid transit service which passes through or is adjacent to seven equity emphasis areas on the eastern side of Montgomery County. This project will further improve riders access to employment opportunities along the corridor and throughout the region by providing faster and more reliable public transportation.	This project will improve US29 Flash bus rapid transit travel time reliability by providing priority transit treatments. By improving transit system performance, the project will reduce bus emissions associated with stop and go conditions. It also has the ability to create mode shift along the corridor, reducing the number of single occupant vehicles traveling the corridor. This project will examine these metrics during planning and design phases.	This project directly supports three aspirational initiatives: expand BRT, improve access to Metrorail at Silver Spring Metrorail Station, and improve walk and bike access to transit.	This project will add dedicated transit lanes to the Flash BRT system. Project will encourage modal shift to transit that will improve on congestion and support Vision Zero and greenhouse gas plans and priorities. Project is under study/design and more detailed information should be available when these efforts are completed.
Veirs Mill Road Bus Enhancement	CEID1253	This project is for near-term transit enhancements to Veirs Mill Road to be used prior to the BRT project implementation. This project involves queue jumps, transit signal priority and ped and bike improvements.	This project is a near-term approach that addresses a lack of high quality transit service that connects Rockville through to Wheaton. The routes are required to support planned growth and to provide improved mobility for residents and employees. Adding new high frequency bus routes will increase transit ridership and support aggressive non-auto driver mode share goals.	This project directly supports three aspirational initiatives: expand BRT, improve access to Metrorail at Silver Spring Metrorail Station, and improve walk and bike access to transit.	Project will encourage modal shift to transit that will improve on congestion and support Vision Zero and greenhouse gas plans and priorities. Project is under study/design and more detailed information should be available when these efforts are completed
Great Seneca Transit Network	CEID3764	The Great Seneca Transit Network is a near-term transit solution that would provide high-quality transit connecting Shady Grove, Gaithersburg, Rockville, Life Sciences, the Universities at Shady Grove, Adventist Hospital and the surrounding communities. The network includes five high-frequency bus routes, priority treatments (transit signal priority, queue jumps, and dedicated bus lanes), and stations with amenities like all-door boarding and real-time information.	This project is a near-term approach that addresses a lack of high quality transit service that connects Shady Grove through the Life Sciences area to Gaithersburg. The routes are required to support planned growth in the Life Sciences area and to provide improved mobility for residents and employees. Adding five new high frequency bus routes will increase transit ridership and support aggressive non-auto driver mode share goals.	This project directly supports three aspirational initiatives: expand BRT, improve access to Metrorail at Silver Spring Metrorail Station, and improve walk and bike access to transit.	Project will encourage modal shift to transit that will improve on congestion and support Vision Zero and greenhouse gas plans and priorities. Project is under study/design and more detailed information should be available when these efforts are completed