

ITEM 10 – Information

January 19, 2022

Visualize 2045: Outline and Plan Document Development

Background:

TPB staff will provide an update on the development of Visualize 2045, including the outline of the plan document, the new components to be included in Visualize 2045, and the timeline for plan activities.



MEMORANDUM

TO: Transportation Planning Board
FROM: Stacy Cook, TPB Transportation Planner
SUBJECT: Status Report on the Visualize 2045 long-range transportation plan 2022 update
DATE: January 13, 2022

This memorandum provides a brief status update on the development of the Visualize 2045 long-range transportation plan 2022 update. For more information on Visualize 2045, please visit the plan's new website [Visualize2045.org](https://visualize2045.org).

BACKGROUND

On December 16, 2020, the TPB approved the Technical Inputs Solicitation for the update to the technical inputs for the air quality conformity analysis of the TPB's long-range transportation plan, Visualize 2045, and the Transportation Improvement Program (TIP). The TPB staff provided a public comment and interagency review period for the technical inputs in the spring of 2021. Through actions at its June and July 2021 board meetings, the TPB approved the technical inputs that are presently being used to conduct the required federal air quality conformity analysis, approximately a nine-month task. The TPB staff are undertaking other tasks at this time to develop the Visualize 2045 plan, 2022 update, to ensure the plan meets all federal requirements and responds to the TPB's priorities. The remainder of this memorandum briefly summarizes the plan contents and organization, highlights new content and provides a copy of the schedule for development.

PLAN ORGANIZATION

The plan applies an equity lens and an integrated planning approach as the region works toward shared regional goals, with a renewed emphasis on safety and climate resilience. The plan that is under development is organized into nine chapters, a list of the chapters with a brief summary follows:

1. About the Plan –
A review of the regional planning process, opportunities to engage, roles, responsibilities, and where to find more information. Federal requirements are summarized. (Note. Appendix K will provide detailed information on how the plan demonstrates federal compliance).
2. Where are We Now?
A description of today's planning context, including a summary of the transportation system and its use, demographics, and environment and equity considerations.
3. Visualizing our Future Together
A description of the TPB's Policy Framework
4. What Factors Affect Our Future?
An introduction to emerging and significant factors that TPB considers as the region plans for 2045.

5. How does TPB Engage the Public?

A summary of the TPB's public engagement for the Visualize 2045 update, known as Voices of the Region, and a description of the comment periods, the Community Advisory Committee, and other communications with the public.

6. Strategies for a Brighter Future

A review of the TPB and its members' regional coordination, planning areas, and associated activities. This chapter includes a description of planning for the Aspirational Initiatives, transportation modal options, the future factors and federal planning factors, and other planning areas. For each topic, the chapter includes a discussion of how the TPB, and its members consider equity in planning.

This section will highlight the Climate Change Mitigation Study.

7. Funding the Regional Transportation System

A summary of the financially constrained element. This section will include a summary of project sponsor responses to the questions in the technical inputs solicitation to communicate about how projects in the constrained element project list respond to the TPB policy priorities.

8. Planning for Performance

An overview of TPB's performance planning activities as documented through the federally-mandated performance-based planning and programming (PBPP) and congestion management process (CMP).

The chapter includes the system performance analysis of the constrained element of Visualize 2045.

9. Conclusion: Where Do We Go Next?

A brief summary that looks to future planning considerations in response to insights gathered from the air quality and system performance analyses, the Climate Change Mitigation Study of 2021, other TPB studies and research papers.

The plan will include numerous appendices that provide more detail on projects, planning topics, and how the TPB meets federal requirements for the transportation plan

Note on response to the TPB's Equity Resolution:

To respond to the TPB policy on Equity as established in resolution R1-2021, staff are incorporating equity considerations throughout the plan. In addition to TPB staff equity discussions and training, recent staff equity-focused activities related to regional planning tasks include but are not limited to:

- Amplifying the voice of under-represented/historically disadvantaged groups in the Voices of the Region public outreach including conducting focus groups to discuss equity issues in transportation and asking questions in surveys that inform regional planning on issues of equity.
- Amplifying equity discussions and perspectives throughout the chapters of Visualize 2045.
- Developing performance measures and that inform planning for a more equitable region
- Providing information on which projects in the constrained element are in an EEA or connect an EEA to an Activity Center, as well as narrative descriptions provided by the project sponsors about equity considerations in planning for each project in the constrained element.
- Incorporating equity into TPB studies on climate mitigation and resilience, transit, and safety.
- Staff will also be producing a product to provide a background on equity considerations in transportation.
- Like all past plans, the federally required environmental justice (EJ) analysis will be conducted after approval of the plan. Staff intend to update the Equity Emphasis Areas (EEAs) in 2022, using the latest-available Census data, prior to conducting the EJ analysis for the updated plan.

NEW CONTENT HIGHLIGHTS

The following is a list of new content highlights to be included in the Visualize 2045 update (2022).

- The plan applies an equity lens and an integrated planning approach as the region works toward shared regional goals, with a renewed emphasis on safety and climate resilience.
- Climate considerations are emphasized in the plan and the results of the Climate Change Mitigation Study of 2021 and TPB Resiliency Study will be reflected in Chapter 6, Strategies for a Brighter Future.
- The plan provides more information on planning process and how the TPB's vision is implemented in and beyond the constrained element (project list).
- The discussion of the current planning context includes an enhanced discussion of demographics, and summarizes findings from the decennial Regional Travel Survey. It also includes a new discussion of environmental and equity considerations.
- The Strategies for a Brighter Future includes a new transit-focused section.
- The TPB Technical members' responses to the regional and federal policy questions will be integrated into the document.
- Findings from the public engagement activities for the plan, known as Voices of the Region (Survey, Focus Groups, summer QR code/sign event known as Aspiration to Implementation) are integrated throughout the document as data and narratives to elevate the transportation system user experience, preferences and perspectives.
- The Planning for Performance chapter will now include trends data for the PBPP performance measures, where available, comparing them to the previously established targets.

PLAN AND TIP UPDATE SCHEDULE

The development of the Visualize 2045 update and the Transportation Improvement Program (TIP) remain on schedule.

2020	12/16/20	The TPB will be asked to approve the Technical Input Solicitation document to initiate the Call for Projects.
	2/12/21	Project inputs for the LRTP and Air Quality Conformity (AQC) analysis due to TPB staff.
2021	3/5/21, 4/2/21	The TPB Technical Committee will review the conformity project inputs table in March and the draft inputs to the Plan and the draft AQC scope of work in April.
	4/2/21- 5/3/21	Public comment period on inputs to the Plan/AQC analysis, and AQC scope of work. MWAQC TAC will review this information during the April meeting.
	4/21/2021	TPB will receive a briefing on the draft inputs to the Plan/AQC analysis and the draft AQC scope of work.
	5/19/21	The TPB will receive a summary of the public comments on the draft inputs to the Plan and AQC analysis. The TPB and the agencies sponsoring the projects will have the opportunity to discuss and advise staff on responses.
	6/16/21	The TPB will review responses to comments and updates to inputs to the Plan and scope of work for the AQC analysis. The TPB will be asked to approve the inputs and scope, authorizing staff to begin analysis.
	3/11/22	Transportation Improvement Program (TIP) inputs due for the FY 2023-2026 TIP
2022	4/1/22	The TPB Technical Committee will review the draft results of AQC analysis for the updated Plan and FY 2023-2026 TIP.
	4/1/22 - 5/1/22	Public comment period on the results of AQC analysis Determination for the updated Plan and FY 2023-2026 TIP.
	4/2022	MWAQC and MWAQC TAC will review the draft results of the AQC analysis during their meetings.
	4/20/22	The TPB will review the draft Plan, draft TIP, and AQC analysis and Determination.
	5/18/22	The TPB will review the draft results of the AQC analysis for the Plan and FY 2023-2026 TIP. The TPB will also receive a summary of the comments received on the analysis. The TPB and the agencies sponsoring the projects will have the opportunity to discuss and advise staff on responses to comments.
	6/15/22	The TPB will review the responses to the comments and the results of the AQC analysis. The TPB will be asked to approve the results of the AQC analysis and adopt the updated Plan and the FY 2023-2026 TIP.



Visualize 2045 Update Plan Outline and Document Development

Stacy Cook, TPB Transportation Planner
Transportation Planning Board

January 19, 2022

Agenda Item #10

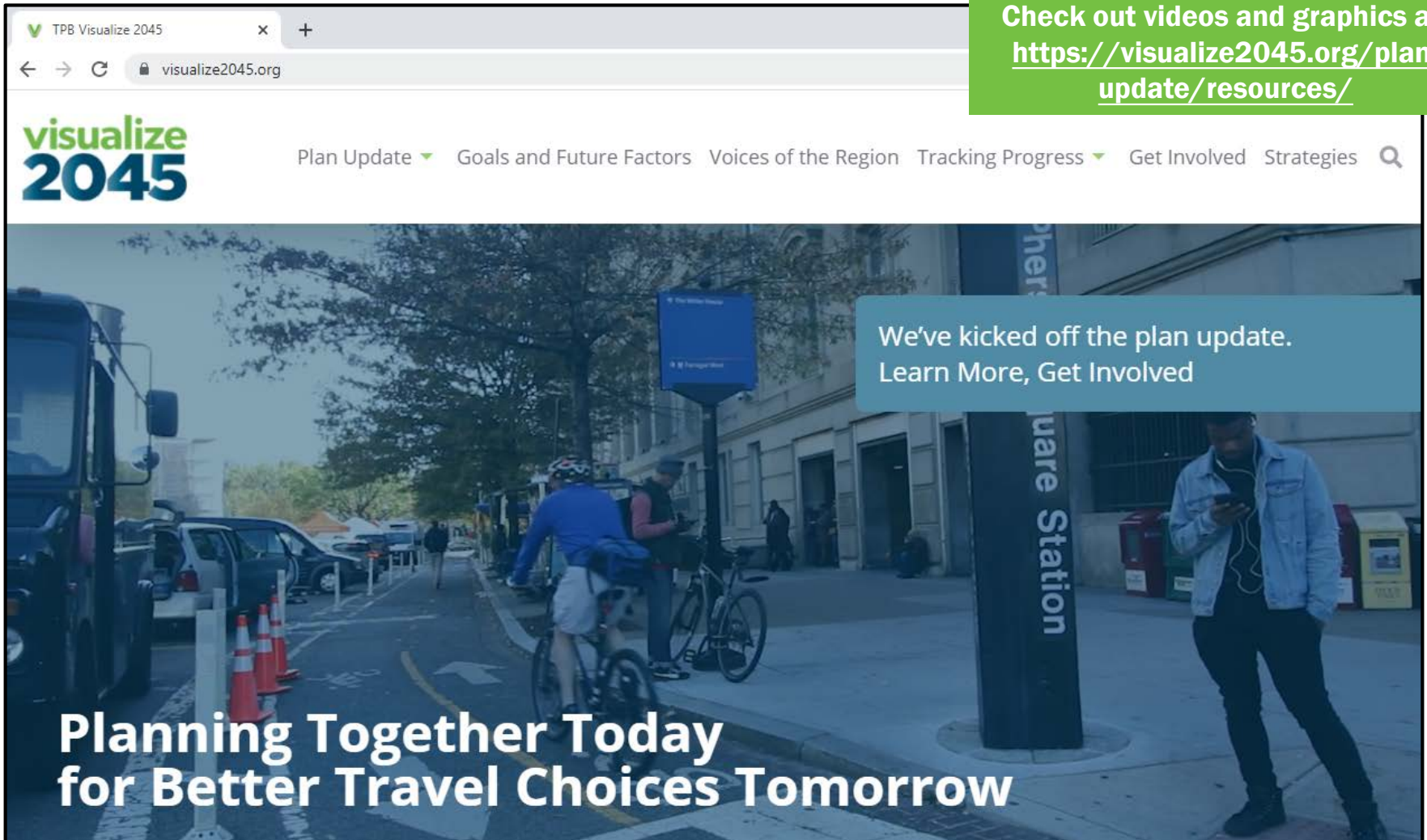
visualize
2045 A long-range
transportation plan
for the National
Capital Region



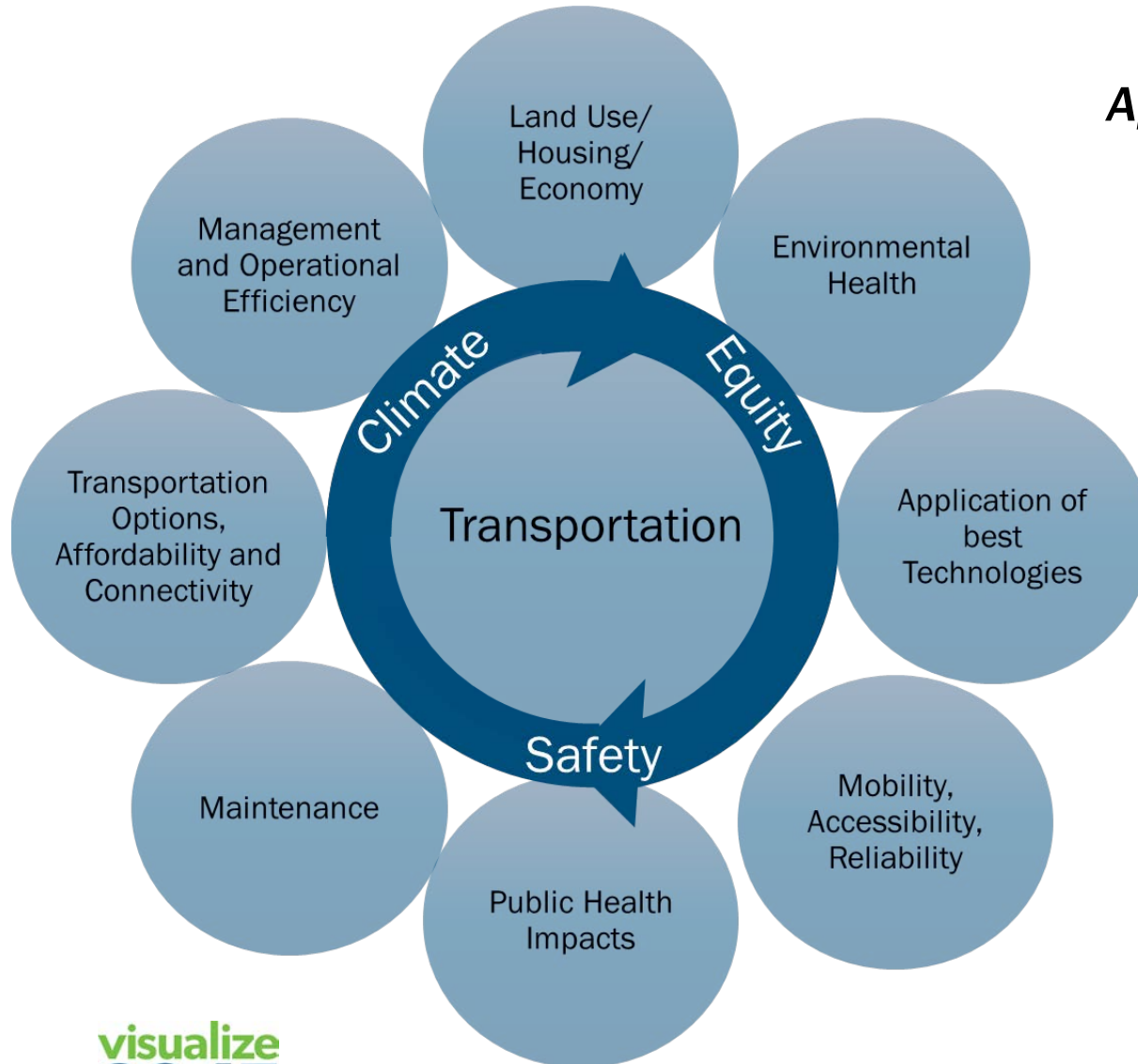
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Updated Visualize 2045 Website

Check out videos and graphics at:
<https://visualize2045.org/plan-update/resources/>

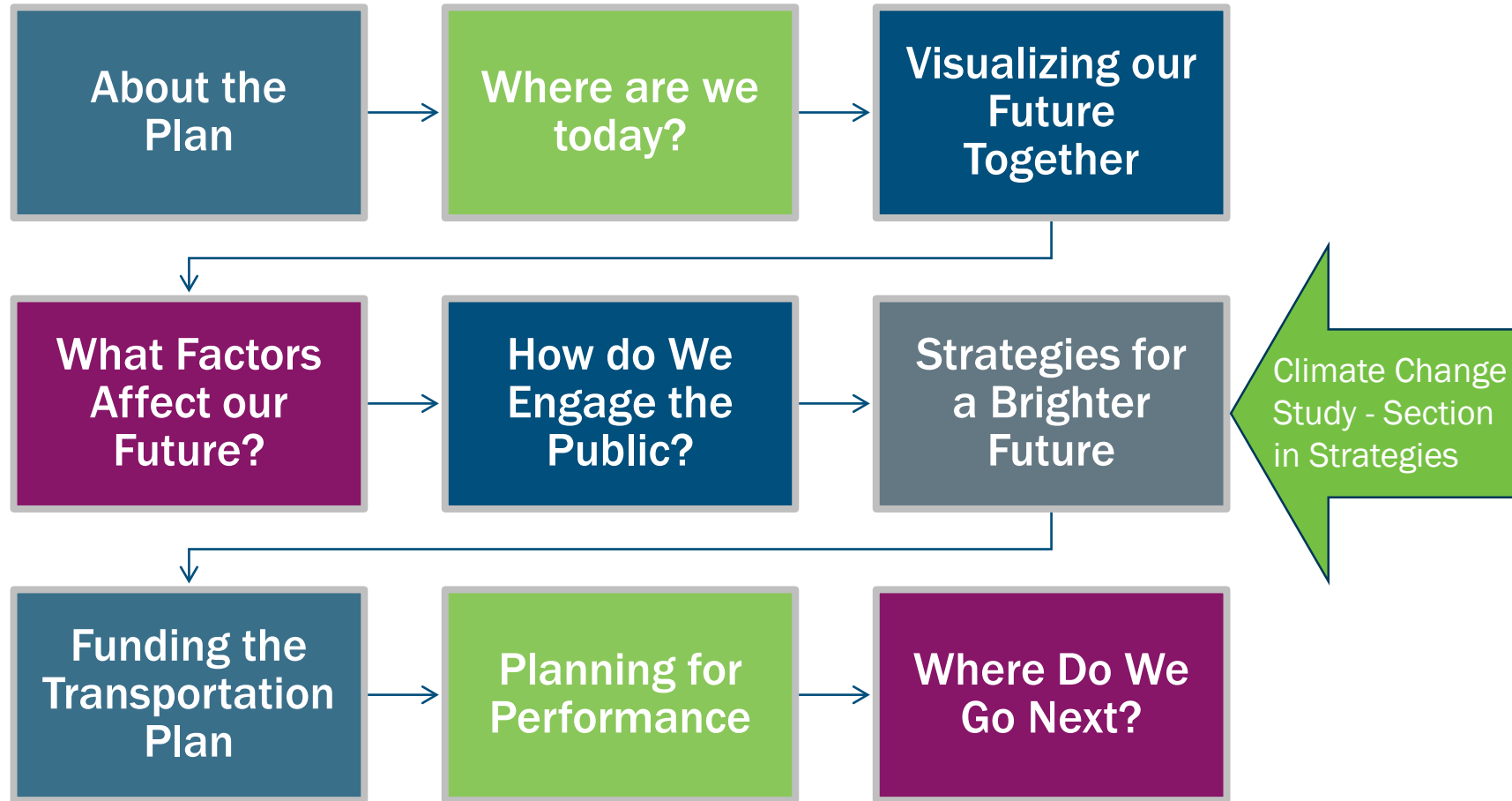


Plan Emphases: Safety, Equity, Climate



Applying an equity lens and an integrated planning approach as we work toward shared regional goals, with a renewed emphasis on safety and climate resilience.

Plan Organization



Highlights of What's New

Applies an 'equity lens' to plan content.

Process:
More information on the planning process:
How does regional planning work?

Public Engagement:
Integrates Voices of the Region findings

Planning:
• transportation modes
• future /federal planning factors
• section on climate change and CCMS of 2021

Projects:
Integrates project sponsor responses to regional policy questions.

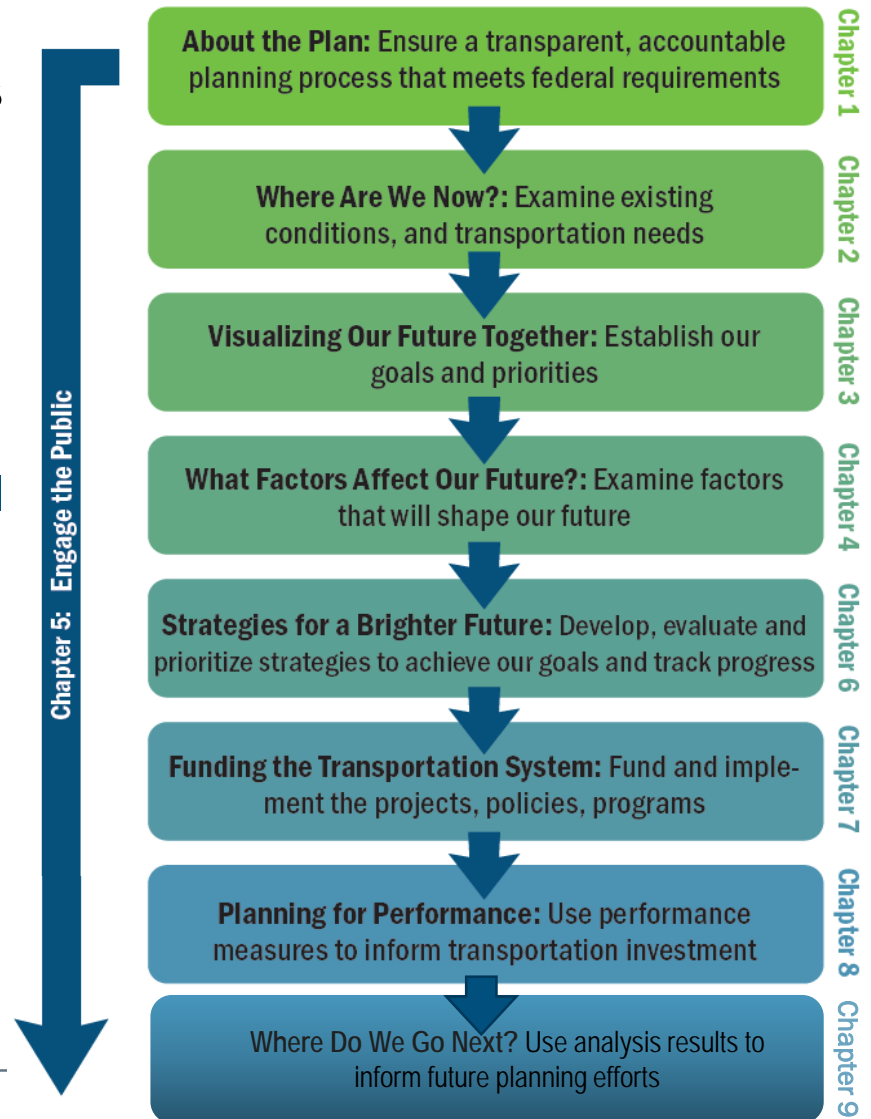
Federal Compliance:
Progress discussions for the PBPP and the new TPB performance measures.

And the plan maintains a continued focus on demonstrating federal compliance

Chapter 1: About the Plan

- About the TPB and planning process
- Purpose of the plan
- **How you can use this plan**
- **Planning process and roles** (including board and public)
- Plan development
- **How local projects fit into the plan**
- **Where to learn more about regional planning**
- Federal Requirements

How TPB goals are implemented - within and beyond the constrained element (aka: air quality analysis project list)



Chapter 2: Where Are We today?

- Provides regional context in which TPB and its members conduct planning for the region's transportation system
- Types of information:
 - Acknowledging COVID-19, equity, and climate change
 - Data
 - **Regional Travel Survey (RTS) findings**
 - **Demographics**
 - Existing and projected population and employment
 - **Cultural, social, and environmental data**
 - *Electric Vehicle Planning*
 - *EJ/Pollution proximity discussion /map*
 - *Importance of land cover*
 - **Input from Voices of the Region public outreach**

Voices of the Region
ON TRAVEL HABITS

The Voices of the Region survey gathered information on attitudes and behaviors related to how COVID-19 has affected their views on the region's transportation system and asked them to consider scenarios as occurring one year after the COVID-19 pandemic is over.

One year after the pandemic is over, **38%** of respondents said they will probably have different travel habits, while **62%** said they expected to go back to the same travel habits as before. Over half of those who expected their travel would be different said they would walk more than before the pandemic (53%).

38% Plan to have different travel habits post-pandemic.

62% Expect to resume same travel habits as pre-pandemic.

See more survey responses on the Visualize 2045 Voices of the Region webpage.

Chapter 3: Visualizing Our Future Together

TPB policy framework: regional vision/goals

- Highlights recent TPB equity, climate and safety resolutions
- Climate Goals
- Voices of the Region findings and quotes
- **Challenges discussion**
- How TPB goals align with the federal transportation National Goals
- Quotes from Board Members on TPB priorities

THINK REGIONALLY, ACT LOCALLY

The region comes together through the TPB to establish shared regional policy goals. Local jurisdictions and agencies take action and make progress on local and regional goals by funding and implementing projects, programs and policies that move our region forward.

Chapter 4: What Factors Affect our Future?

- A new chapter that highlights emerging and significant planning factors to consider when planning* include:
 - Equity
 - Climate change and the environment
 - Safety
 - Emerging technologies
 - Public health
 - Land use, population, and the economy
 - Funding
- **Voices of the Region public input**

* Chapter 6 covers additional planning topics

TRANSPORTATION FACTORS THAT SHAPE OUR FUTURE

visualize 2045
A long-range transportation plan for the National Capital Region

By 2045, metropolitan Washington's transportation system is expected to handle 21 million daily trips. To ensure each one is safe, efficient, and accessible, our regional transportation plan not only addresses ongoing challenges like congestion and crowding but looks boldly to the future.

EQUITY
We need a transportation system that works for all people, regardless of income, race, age, gender, or ability.

ECONOMY
Our roads, transit systems, and trail networks connect our communities, support the movement of goods, and lead to a stronger regional economy.

TRAFFIC SAFETY
Everyone should be able to get around safely. Whether on foot or bike, in a car, or on a bus, we're working together to reduce fatalities and injuries so every trip is a safe one.

FUNDING
Most transportation funding goes to the upkeep of existing infrastructure. We're promoting strategies to keep pace with demand, enhance the system, and make the most of every dollar.

CLIMATE CHANGE AND THE ENVIRONMENT
To protect our climate and ecosystems, transportation solutions need to reduce emissions and environmental impacts. We need to ensure transportation options are resilient and reliable as extreme weather increases.

PUBLIC HEALTH
Clean air, traffic safety, and healthy neighborhoods are directly linked to transportation planning. Making it easier to walk, bike, and take transit reduces emissions and helps communities thrive, even when faced with crises such as the COVID-19 pandemic.

LAND USE
As our population grows, we're promoting strategies that bring together jobs, a range of housing options, services, and recreational opportunities in walkable environments served by transit and freight.

EMERGING TECHNOLOGIES
Advancements in transportation technology can improve efficiency, safety, and integration, and reduce greenhouse gases. However, the role of connected and automated vehicles remains uncertain. We need to anticipate and adapt to beneficial innovations.

National Capital Region Transportation Planning Board
Plan Together. Prosper Together.
Get involved with the Transportation Planning Board.

visualize2045.org
Think regionally, act locally.

Chapter 5: How Do We Engage the Public?

- This chapter provides information on:
 - Why the TPB engages the public
 - Federal requirements
 - **How the TPB engages the public:**
 - E.g., Voices of the Region: Survey Focus Groups and Aspiration to Implementation, comment periods – look for a **Story Map** on this soon!
- There will be an appendix that documents how the plan process has followed the TPB’s public participation process. The TPB has published separate reports for the Voices of the Region Survey, Focus Groups, and Aspiration to Implementation event.



Chapter 6: Strategies for a Brighter Future



WHAT IS A STRATEGY?

A strategy is a way
to achieve a goal.

Designed to communicate all planning areas and priority strategies in
3 main sections:

1. Aspirational Initiatives
2. Transportation Options
3. Strategies to Address the Future Factors and **Federal Planning Factors** – includes a full climate change section

Chapter 6: Strategies for a Brighter Future

Transportation Options:

- TDM
- Bike/Ped/Micromobility
- Transit (new) including Intercity bus
- Driving and Riding (new)
- Airport Systems

Future Factors/Federal Planning Factors

- Equity and Inclusion
- Coordinated Human Transportation Services Plan
- **Climate Change Mitigation and Resiliency**
- Environmental Consultation and Mitigation
- Safety
- Land-Use (including affordability and HCT/EEA planning)
- Freight
- Funding
- **Public Health**
- Management and Operations
- Emerging Technology/**CAV**
- Emergency Preparedness and Transportation Security
- Travel and Tourism

Equity considerations and planning discussed in each section

Chapter 6: Strategies for a Brighter Future

- Voices of the Region public input
- ‘Visualize the Future’ sections enhanced to track progress and provide examples from the regional policy documentation submitted by sponsoring agencies
- ‘Policy Context’ call-outs

The Policy Context	draft
Impact of the Aspirational Initiatives	Planning Factors
Expanding BRT and transitways throughout the region with improved bicycle and pedestrian connections would provide more people access to High-Capacity Transit and additional connectivity to destinations throughout the region, including making existing and future intercity bus stations more accessible for all. Expanding Metrorail core capacity would provide logistical ease and comfort for those traveling by Metrorail to and from the region’s numerous destinations served by Metrorail, including intercity bus stations.	RTPP Goals
	<ul style="list-style-type: none">• Promote a strong regional economy, including a healthy regional core and dynamic Activity Centers.• Support inter-regional and international travel and commerce.

Chapter 7: Funding the Transportation Plan

- Regional funding
- Background on project development and funding categories
- Financial plan summary
- Constrained element (project list) summary
 - Aspirational Initiatives implemented through the constrained element
 - Summary (providing a count) of the project sponsor responses to federal/regional policy questions



Goal 2: Promote a Strong Regional Economy, Including a Healthy Regional Core and Dynamic Activity Centers

The region's economy is supported largely by the economic activity that occurs in major housing and job centers, known as Activity Centers. Strengthening these areas, including the regional core, and connecting them with good transportation options bolsters the economy. It allows us

to grow and use land more wisely, and creates numerous opportunities to move people and goods more efficiently and with a lower carbon footprint. Respondents for each of the projects were asked about the project area and overlap with Activity Centers and Equity Emphasis Areas (EEAs), which areas with significant concentrations of low-income, minority populations or both.



Table 7.2: Goal 2 - Project Sponsor Responses



Note: the performance analysis has moved to Chapter 8, Planning for Performance

Chapter 8: Planning for Performance

- Performance Overview
 - Performance-Based Planning and Programming: **data trends and progress**
 - Congestion Management Process
 - Air Quality Conformity Analysis results
 - GHG and land use measures
 - Systems Performance Analysis of the constrained element of the LRTP
 - **New systems performance measures**

Table 8.5: Regional Transit Asset Management Targets for Revenue Vehicles, 2020 (Source: Transportation Planning Board)

Percentage of Revenue Vehicles that Have Met or Exceeded Useful Life Benchmark	Regional Assets Total	Regional Target
Articulated Bus	91	4.8%
Auto	34	0.0%
Over-the-Road Bus	169	23.4%
Bus	2709	5.0%
Cutaway Bus	84	6.8%
Heavy Rail Passenger Car	1200	0.0%
Light Rail Vehicle	6	0.0%
Commuter Rail Locomotive	20	0.0%
Commuter Rail Passenger Coach	100	0.0%
Van	844	10.6%
Revenue Vehicle Totals	5257	

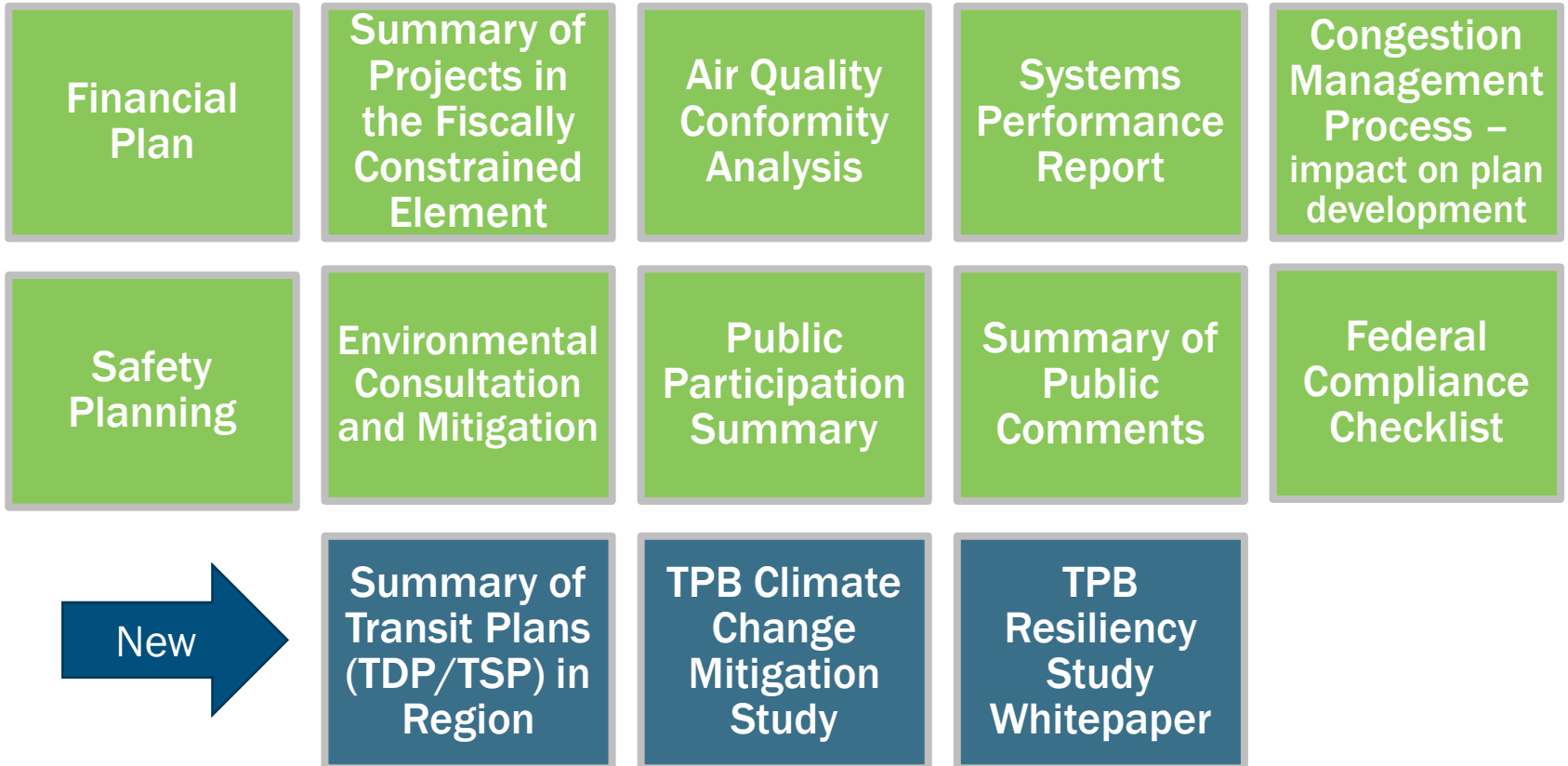
draft

Chapter 9: Where Do We Go Next?

- This chapter will:
 1. wrap up the plan
 2. discuss findings from the climate change study
 3. discuss findings from the air quality and system performance analyses
 4. discuss planning and strategies towards 2045



Plan Appendices and Reports



Next Steps

- January - March 2022:
 - Finalize air quality conformity and system performance analyses – document in chapter 8
- Now - March 2022:
 - Develop Climate Change Section, document any formal response by Board to Climate Change Mitigation Study of 2021 findings
- Now - March 2022:
 - Draft “Where Do We Go Next,” Chapter 9
- April 1, 2022:
 - Begin Public Comment Period on the Air Quality Conformity Analysis and the plan
- May 2022 TPB meeting:
 - Staff present public comment summary
- June 2022 TPB meeting:
 - Staff recommendation for approval of the update to Visualize 2045

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