

# DEVELOPMENT OF 2024 CONGESTION MANAGEMENT PROCESS (CMP) TECHNICAL REPORT

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Systems Performance, Operations, and Technology Subcommittee  
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National Capital Region  
**Transportation Planning Board**

# Introduction

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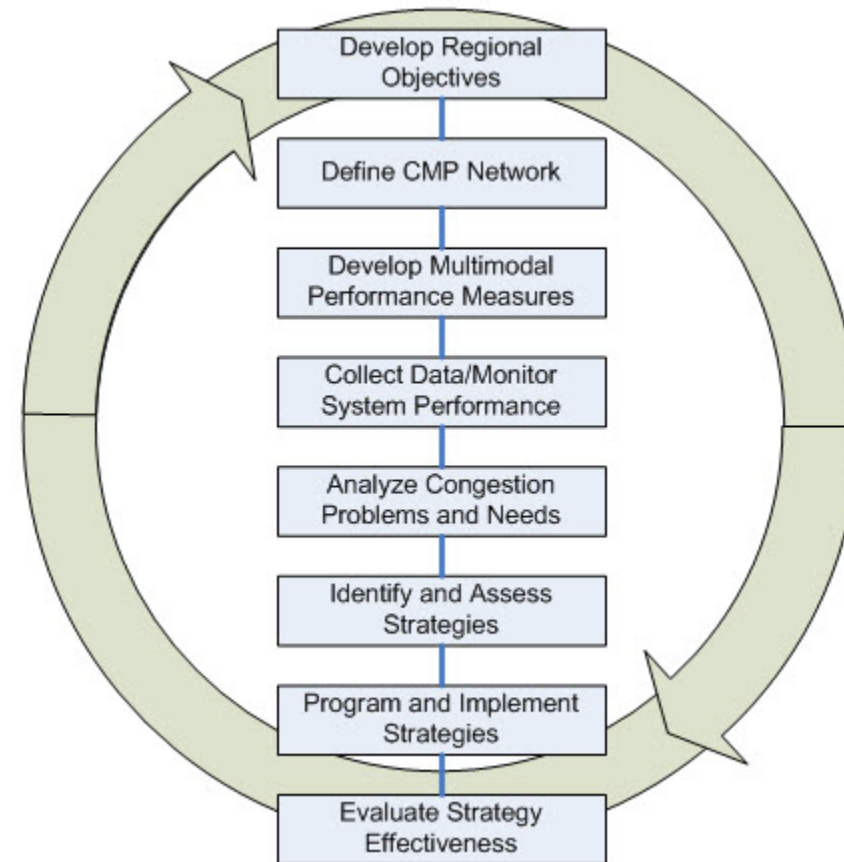
- A Congestion Management Process (CMP) is a mandated element of metropolitan transportation planning
  - Many generations of federal regulations for metropolitan planning have addressed CMP requirement; no changes in law under IIJA/BIL
- The official CMP component is wholly integrated into the overall long-range transportation plan (Visualize 2050)
  - The CMP Technical Report is a supporting document developed biennially since 2008
- In development for finalization and presentation to the Technical Committee in September.
  - Feedback opportunities will be announced subsequently.



# What Is a CMP?

The transportation planning process in a TMA shall **address congestion management through a process** that provides for safe and effective integrated management and operation of the multimodal transportation system...**through the use of travel demand reduction...job access projects, and operational management strategies.**

- Federal Register Vol. 81, No.103, pp.34152, May 27, 2016.



# Components of the Region's CMP

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- Visualize 2050 comprises the official regional CMP
  - The CMP process document
    - TPB ensures that the plan includes alternatives to SOVs
    - The CMP informs the project selection process for the plan and TIP
- Project-specific CMP addressed in Technical Inputs Solicitation
- National Capital Region Congestion Reports (quarterly dashboard)
- Biennial CMP Technical Reports



# The 2024 CMP Technical Report

The **Report** serves as a background document to the official LRP/CMP, providing detailed information on data, strategies, and regional programs involved in congestion management:

Compiles information from a wide range of metropolitan transportation planning activities

Provides some additional CMP-specific analyses, particularly Vehicle Probe Project data-based analyses



# Contents – Congestion Summaries

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- Executive Summary
- Chapter 1 – Introduction
- Chapter 2 – State of Congestion
  - Regional Travel Trends
  - Congestion on Highways; Transit Systems
  - National Comparison of the Washington Region’s Congestion
  - Performance Analysis of Visualize 2050



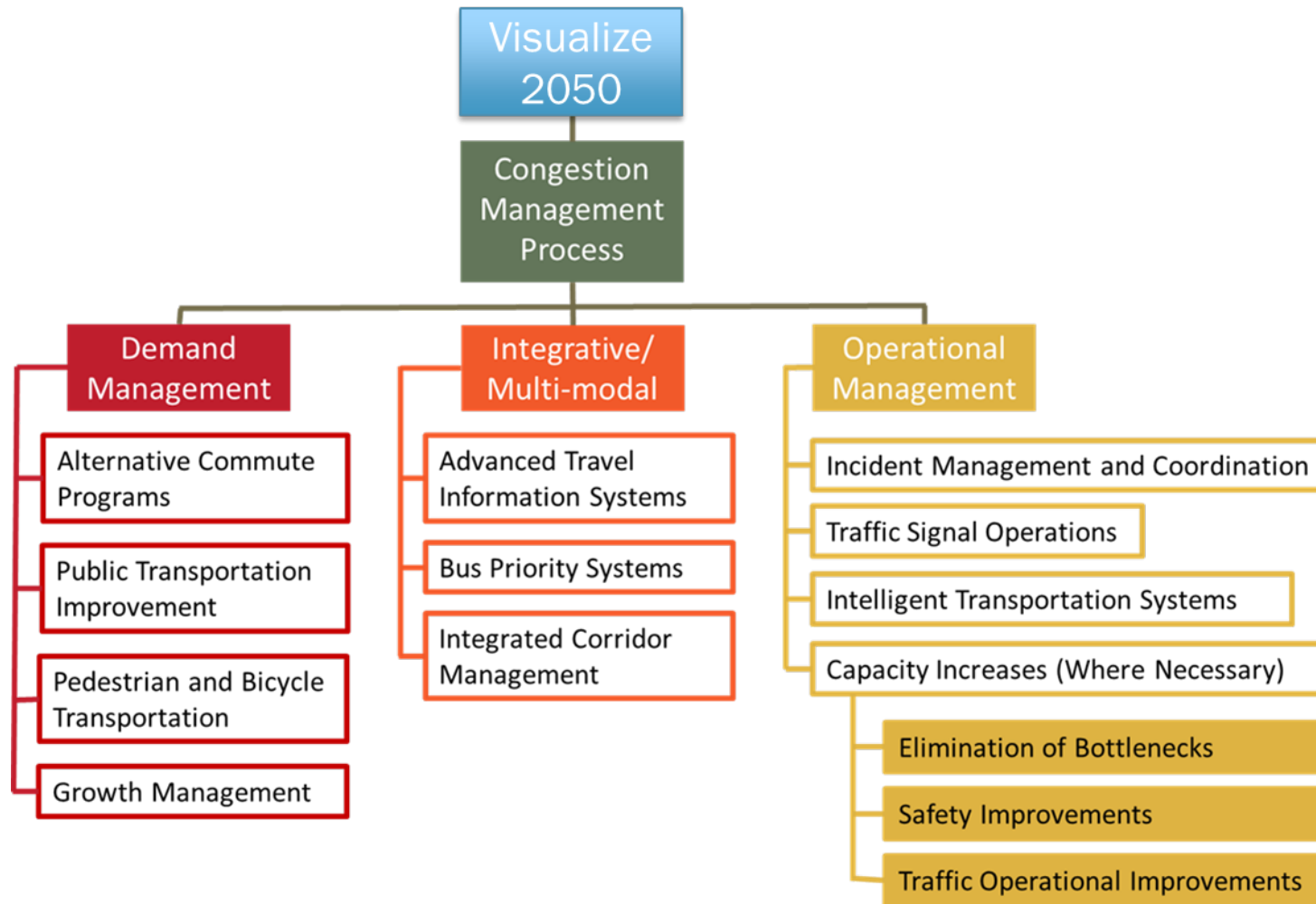
# Contents – Strategies and Outcomes

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- Chapter 3 – Consideration/Implementation of Strategies
  - Demand Management Strategies (esp. Commuter Connections)
  - Operational Management and Integrative/Multi-Modal Strategies
- Chapter 4 – Studies of Congestion Management Strategies
- Chapter 5 – How Results of the CMP Are Integrated into the Long-Range Plan
- Chapter 6 – Conclusions
  - Key Findings of the 2024 CMP Technical Report
  - Recommendations
- Appendices



# Congestion Management Strategies in The Report





# Selected Congestion Management Strategies



# Highlights of The Report

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- § 2.2.1 The Eastern Transportation Coalition Vehicle Probe Project Traffic Monitoring
- § 2.2.1.6 Top Bottlenecks
- § 2.5 National Comparison of the Washington Region's Congestion
- Appendix A – 2023 Peak Hour TTI for the Region and Sub-regions
- Appendix B – 2023 Peak Hour PTI for the Region and Sub-regions
- Appendix C – 2010 and 2021-2023 Travel Times along Major Freeway Commute Corridors
- Appendix D – Peak Hours Travel Time over Years on Major Freeway Commute Corridors



# Latest Additions to The Report

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- 2.1.1 Key External Influences on NCR's Congestion
  - An interpretative analysis of the external factors influencing weekday Interstate traffic congestion within the National Capital Region (NCR), as gauged by the travel time index (TTI)
  - Preliminary data from 2010-2022 suggests that employment, population, and gasoline prices have a moderate to minor impact on TTI
- 2.1.2 Long-term Travel Time Trends on NCR Corridors
  - Traffic congestion has worsened on average during both morning and evening peak hours compared to 2013.
  - The impact varies significantly across corridors, with some experiencing improvements and others significant slowdowns.
- Appendix D is added to provide more details of the peak hours' travel time trend.



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