



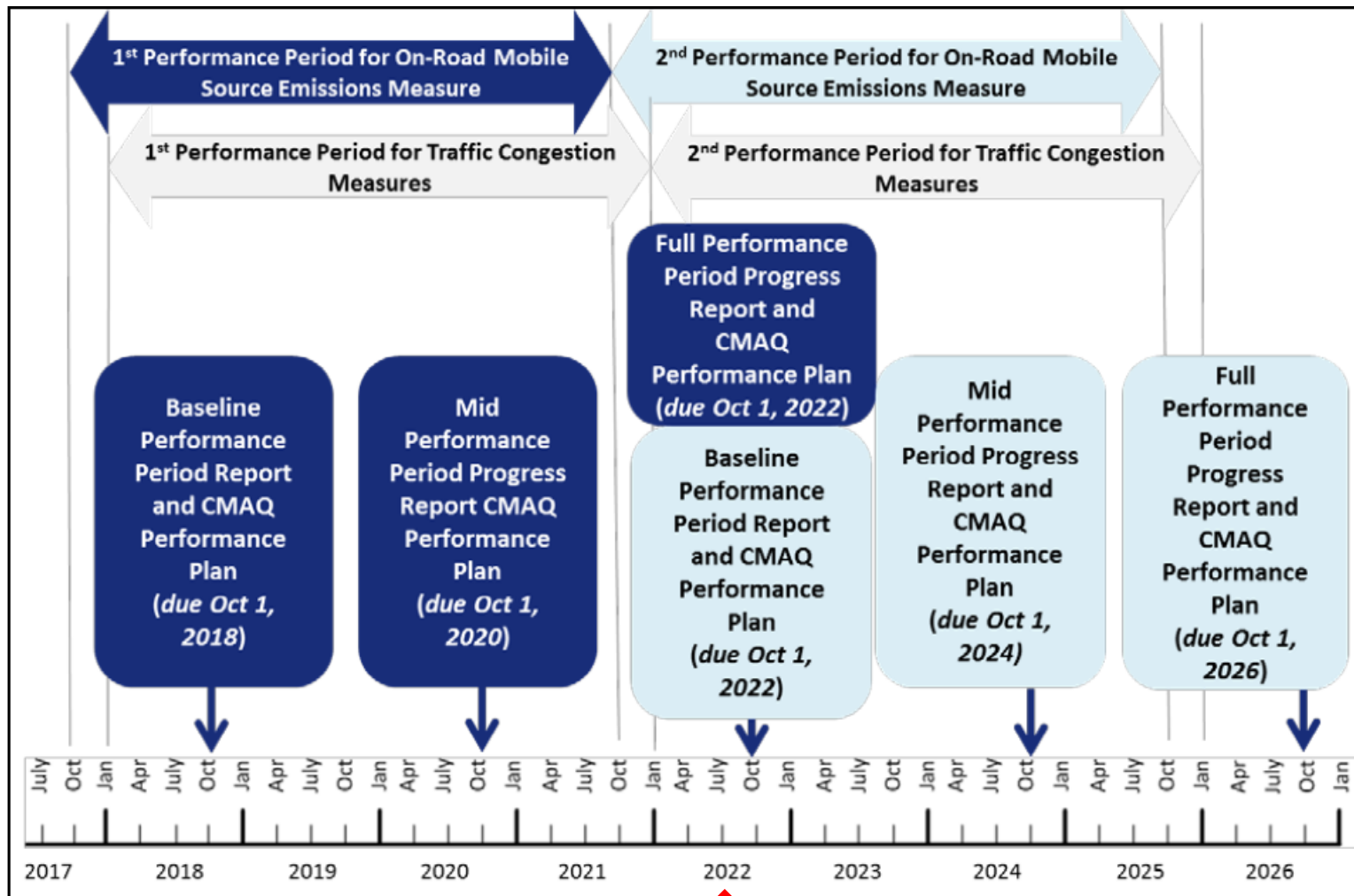
# CMAQ Performance Planning Update

Technical Committee

July 6, 2022



# CMAQ Performance Periods

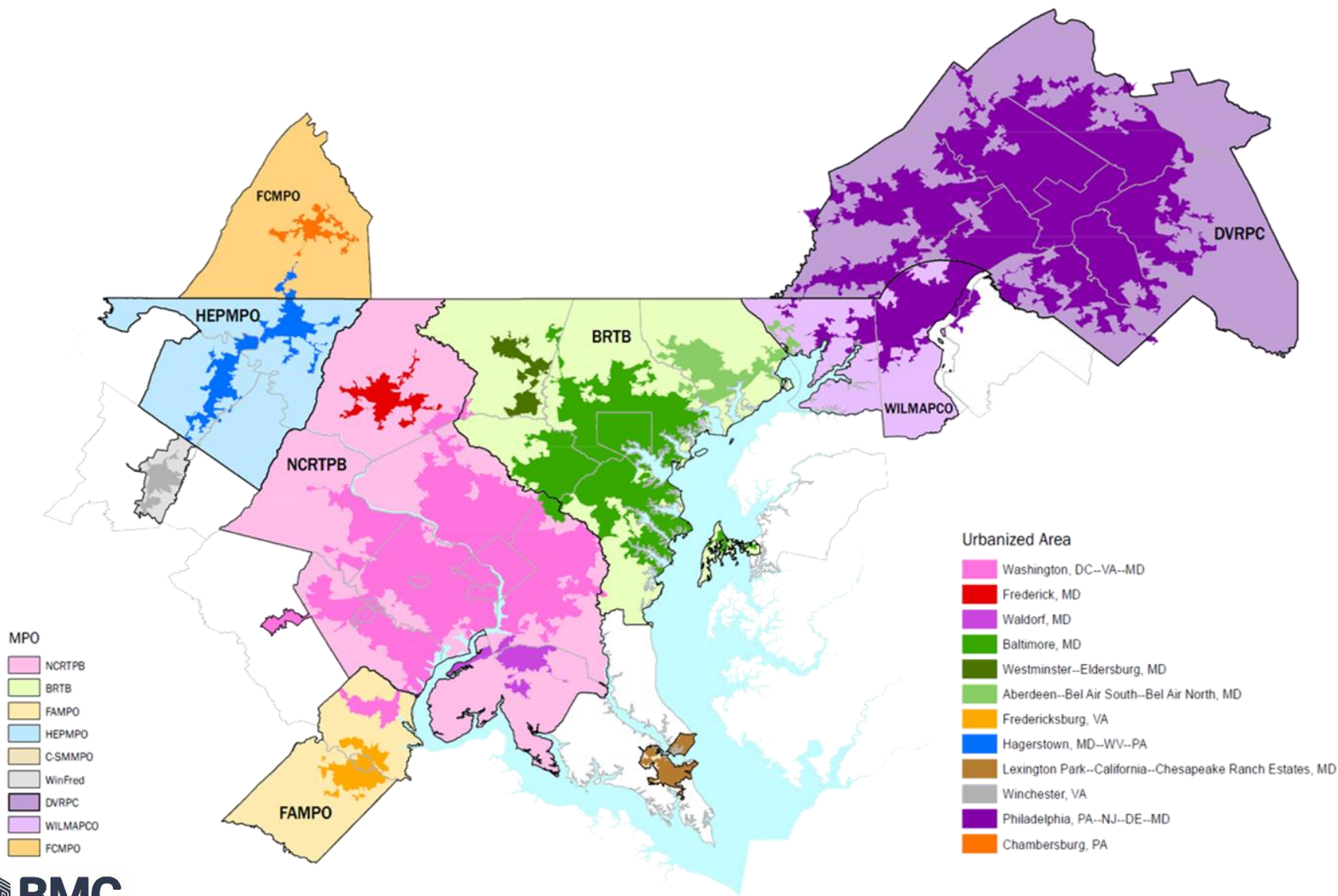


# CMAQ Baltimore Region Applicability

## Second Performance Plan

Performance Area	Performance Measure	Additional Urbanized Area Overlapped	Agencies in Vicinity
Traffic Congestion	<b>PHED Measure:</b> Annual Hours of Peak Hour Excessive Delay (PHED) Per Capita	<ul style="list-style-type: none"> <li>Washington, DC-VA-MD</li> <li>Aberdeen – Bel Air South – Bel Air North, MD</li> </ul>	<ul style="list-style-type: none"> <li>BRTB</li> <li>TPB</li> <li>WILMAPCO</li> <li>MDOT</li> </ul>
	<b>Percent of Non-SOV Travel Measure:</b> Percent of Non-Single Occupancy Vehicle (SOV) Travel		
On-Road Mobile Source Emissions	<b>Total Emissions Reduction Measure:</b> Total ozone emission reductions	<ul style="list-style-type: none"> <li>Washington, DC-VA-MD</li> </ul>	<ul style="list-style-type: none"> <li>BRTB</li> <li>TPB</li> <li>MDOT</li> </ul>

# MPO and Urbanized Area Boundaries



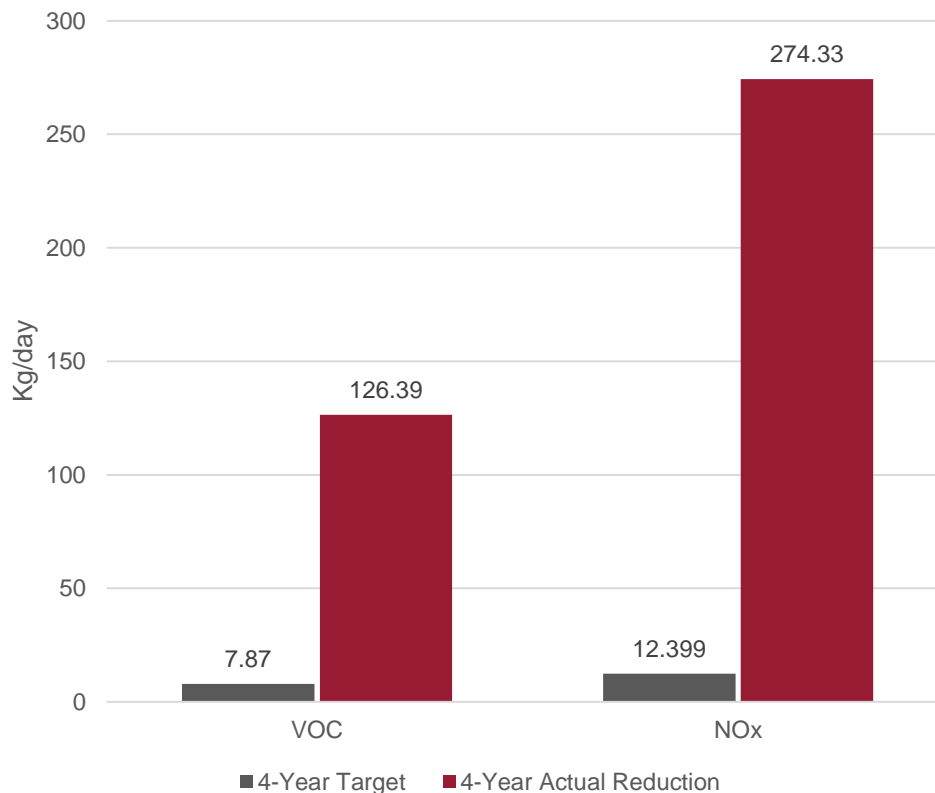
# Report Components

Key Component	Full 1 <sup>st</sup> Performance Period Progress Report	Baseline 2 <sup>nd</sup> Performance Period Progress Report
Condition/performance	4-year condition/performance	Baseline condition/performance
Targets	n/a	2-year and 4-year targets
Description of Projects	n/a	Description of projects
Assessment of Projects	Assessments of projects' contribution to achieving 4-year targets	n/a

# On-Road Mobile Source Emissions: FFY 2018-2021 Performance



Target vs Actual Emission  
Reductions



- **Targets**

- Met 2-year and 4-year targets for VOC & NOx

- **11 Projects with emission reductions, including**

- Adaptive "Smart" Signal Systemization
- Bus Replacement
- Baltimore City's Traffic Management Center

# On-Road Mobile Source Emissions: FFY 2022-2025 Target Setting



- **Historic trends**
  - Emission reductions from the FFY 2014-2017 and FFY 2018-2021 performance periods
- **Anticipated Programmed CMAQ projects**
  - MDOT MTA – BEBs, Purple Line Crescent Trail; LOTS Ridesharing; LOTS Guaranteed Ride Home
- **Adjustments for:**
  - Outlier projects - omitted
  - Altered commute patterns & COVID rebound
  - Declining emission rates of LDVs

## Tools

- MAQONE
- FHWA Emissions Calculator Toolkit
- TRIMMS

# On-Road Mobile Source Emissions: FFY 2022-2025 Projects and Targets



Baltimore Region Project Description	Type of Project	FFY
Battery Electric Bus Procurement	Transit Improvements	2024/2025
Battery Electric Bus Charging Infrastructure	Transit Improvements	2023/2024
LOTS Ridesharing Program	Ride Sharing	2024
LOTS State of Maryland Guaranteed Ride Home – Baltimore Region	Ride Sharing	2024

State/MPO	2-Year Target (Sum FY22-FY23)		4-Year Target (Sum FY22-FY25)	
	Sum of Emissions Benefits (kg/Day)		Sum of Emissions Benefits (kg/Day)	
	VOC	NOX	VOC	NOX
<b>BRTB</b>	0.87	6.64	13.63	43.27
<b>TPB</b>	0.21	1.71	6.24	15.19
<b>WILMAPCO</b>	0.04	0.10	0.07	0.18
<b>MDOT (statewide)</b>	<b>1.12</b>	<b>8.45</b>	<b>19.94</b>	<b>58.64</b>



# DRAFT 2022 Milestone Dates



Task	Target Date
ICG review proposed Emissions Targets and methodology	June
ICG and TC review Congestion Targets and methodology, and draft Performance Report and Plan	July
ICG and TC endorse targets, Performance Report, and Plan	August
BRTB endorse targets, Performance Report, and Plan	August
BMC submit Performance Report and Plan to MDOT	Late August

# For More Information

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