



GET CHARGED UP!



23Q4 Stakeholder Challenge Mobility & Clean Transportation

November 8, 2023

Maryland Transit Administration



6

Service Modes

Core Bus, Light Rail, Metro, Mobility, MARC, and Commuter Bus

15th

Largest Transit System

Out of all transit agencies in the United States by total ridership in 2022

~3,300

Employees

1,500 operators, 700 mechanics, 80% union

\$12.6B

In Total Asset Value

Includes assets for which MTA has direct capital responsibility

~\$1B

Operating Budget

For FY24, includes contracted service, salaries & benefits, LOTS

~\$4B

Capital Budget

For FY24-29, major projects include vehicle overhauls & replacements, transit facilities



Core Bus

Serves Baltimore region with over 60 routes; largest mode by ridership; network redesign launched in 2017; 10th largest bus system in United States



Light Rail

33 stations from Hunt Valley to Cromwell and BWI Airport; 57 miles of track; mid-life overhaul of vehicles underway



Metro

Heavy rail service with 14 stations from Owings Mills to Johns Hopkins Hospital; fleet replacement underway



Mobility

Paratransit service for individuals with disabilities who are unable to use the MTA fixed route system; service is contracted



MARC

Commuter rail service with 3 lines; 42 stations in MD, WV, and DC; service is contracted



Commuter Bus

Peak-period limited-stop bus service; 4th largest system in United States; service is contracted

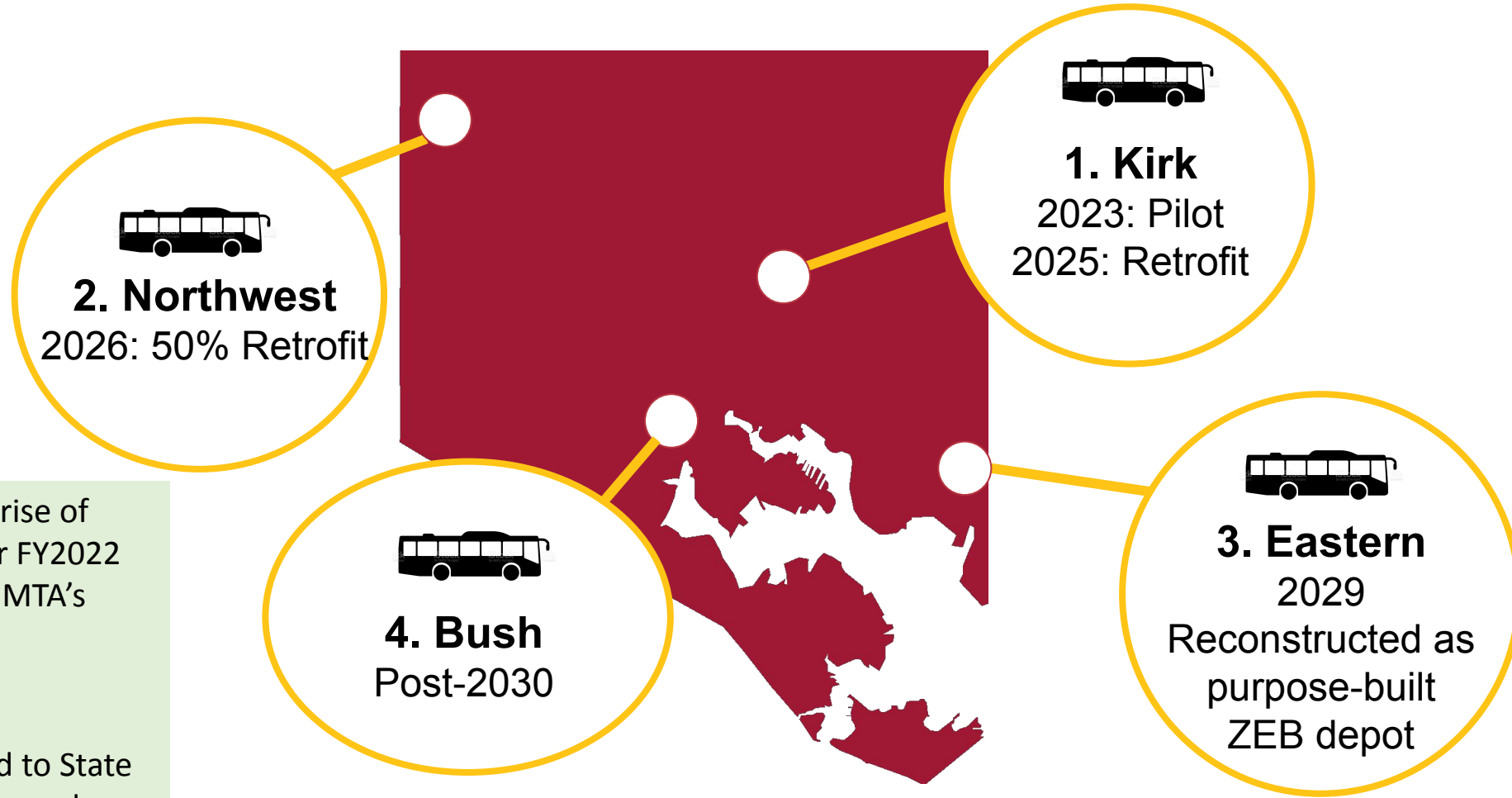
Supporting Our Region



- 54 million rides last year throughout system
 - Ridership continues to recover
- ~30% of Baltimore households have no access to a vehicle
 - Over 80% of Core Bus riders
- Over a third of Core Bus riders have <\$20k household income
- Owning a car in Baltimore costs around \$14,000 a year
- For every \$1 invested in transit, the regional economic return is \$4



ZEV Transition Policy Mandates & Timelines



Transition Policy Objectives

- New procurements can only comprise of Zero-Emission Vehicles (ZEVs) after FY2022
- Transition requirement for 50% of MTA's core bus fleet to ZEV by 2030
- Transition goal for 100% of state non-revenue fleet to ZEV by 2033
- Annual legislative report submitted to State Government documenting progress and challenges
- Registered Apprenticeship program started in July 2023, initial focus on electricians

Issue and Goal Statement

- Issue:
 - Many private and public organizations that operate fleets are challenged with **the issues tied to coordinating with utilities, other public owners of right of way** to clearly understand the process to provide the **required amount of electric power to their sites for charging infrastructure.**
 - Improved coordination between fleet operators and utilities' **capital investments** can be **streamlined to support fleet transition efforts.**
 - Improved coordination between **infrastructure and fleet vendors** and fleet operators/utilities will ensure that **upgrades and fleet deployments** can progress in a **timely and coordinated manner.**
- Goal:
 - Create guidance to more **clearly define the complex steps** that fleet operators, utilities and vendors must follow to **implement efficient utility enhancements and infrastructure upgrades** to support **large and reliable ZEV fleet deployments.**



Key Obstacles for 12-Month Resolution Period



- Initial Focus
 - Identify critical challenges for implementing utility upgrades and necessary infrastructure to support ZEV fleet.
- Key Stakeholders
 - Fleet Operators
 - Public Transportation
 - School Bus
 - Private Fleets
 - Municipal Fleets
 - Utility Companies
 - Public Service Commissions
 - Private Industry
 - EVSE/Charging Infrastructure Firms
 - Charge/Load Management Providers
 - Vehicle Manufacturers
- MTA's Role
 - Provide Overview of Coordination Activities with BGE
- Key Milestones/Funding Opportunities
 - Grant Programs
 - Federal: LoNo, Bus Facilities, RAISE, CRP
 - State: MEA, Volkswagen Mitigation
 - Utility Programs



Outcomes and Implications

Benefits of Addressing this Obstacle:

- **Reduce capital and operating expenditures** for fleet operators and utilities.
- Ensure **efficient use of utility grid** (through solutions such as load management)
- **Clean air and noise pollution reduction** will benefit transit-dependent communities and the surrounding region on an earlier timeframe.
- Supports **accelerated phase-in of ZEV fleets, providing more data to the industry** to support future procurements and technologies
- Opens up new opportunities **to train and develop a skilled workforce** that can support these technology.

Consequences of not Addressing this Obstacle:

- **Delayed phase-in** of ZEV fleets
- **Inefficient use of resources**
 - Utility grid
 - Capital/operating expenditures from fleet operators and utilities
- **Transit-dependent communities** will need to wait longer to reap the benefits of cleaner air and quieter neighborhoods



Discussion



Regarding Mobility and Clean Transportation, to achieve the DMV Region's Climate, Health & Equity goals, a critical obstacle to collectively overcome in 12 months is **streamlining processes related to workforce development, infrastructure, facility and utility upgrades to support the accelerated phase-in of ZEV fleets.**



Q&A



ZERO
EMISSIONS

Let's clear the air