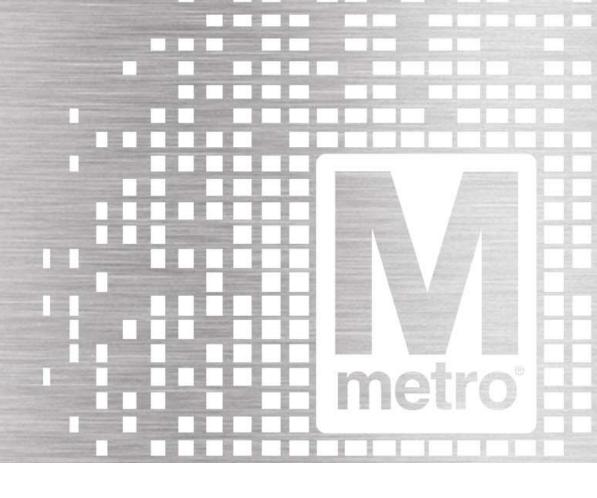
## Metro Sustainability Presentation

**ACPAC** 

December 17, 2018



#### **Regional Significance**

## Regional Sustainability Targets



By 2020, construct 5,000 certified green buildings

By 2020, reduce regional greenhouse gas emissions by 20% below 2005 levels



Beginning in 2014, the region's air quality will be improving and ambient concentrations will be reduced below federal standards (0.07)



The region will identify, conserve, and enhance a network of protected open spaces, parks and green infrastructure to provide ecological benefits, wildlife habitat, recreational opportunities, and scenic beauty

By 2050, 50% of all sentinel watersheds will be in good or excellent condition



By 2025, achieve 100% of Chesapeake Bay Program's Water Quality Implementation Goals

Beginning in 2012, the region will maintain more than 497,500 acres of its area for agricultural uses

metro °

#### **Regional Significance**

## National Capital Region Transportation Initiatives



- 1. Bring jobs and housing closer together
- 2. Expand bus rapid transit regionwide
- 3. Move more people on Metrorail
- 4. Provide more telecommuting and other options for commuting
- 5. Expand express highway network
- 6. Improve walk and bike access to transit
- 7. Complete the National Capital Trail

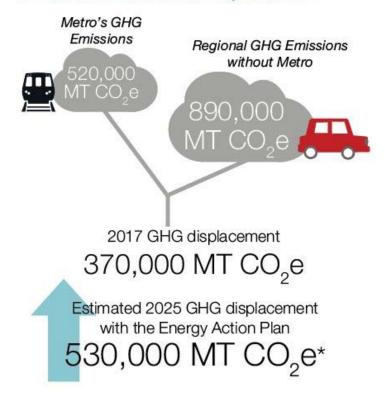


#### **Regional Significance**

## Metro's Impact

- Metrorail and Metrobus move over 900,000 weekday passenger trips, providing 73% of the region's total public transit miles
- Transit reduces the region's carbon footprint, spurs transit-oriented development, and promotes economic growth
- Metro accounts for regional GHG displacement of approximately 370,000 metric tons of CO2e (annually)

#### Annual Greenhouse Gas Displacement



\* 2025 displacement value assumes only a change in Metro's emissions, all else equal



#### **Metro Sustainability Targets**





## **Metro at a Glance**



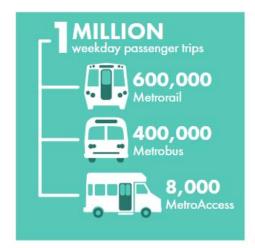
Service area:

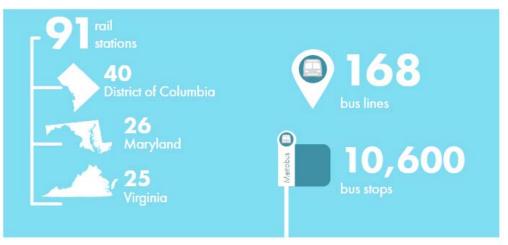
1,500 square miles

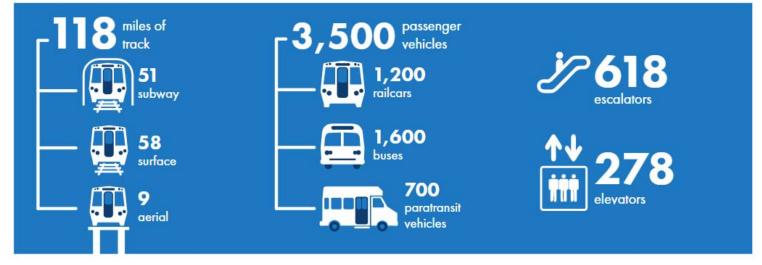
3.9+ million population



#### **Metro at a Glance**



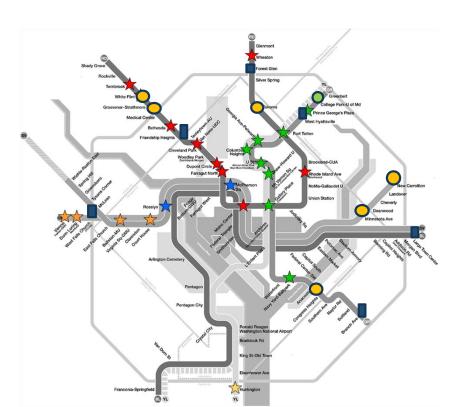




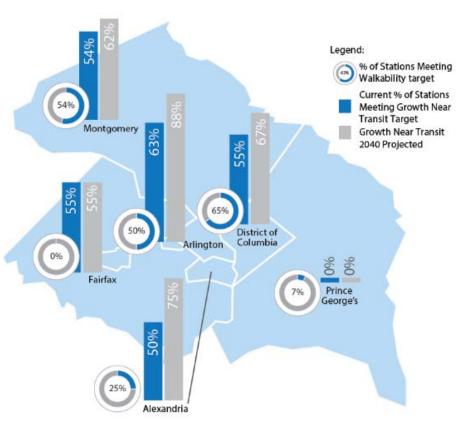


## **Transit Oriented Development**

## Joint-Development



## Walkability





## **Energy Action Plan**





#### **Energy Action Plan**

## Greener, Safer, More Reliable Ride



Metro is already moving!

Active capital improvement program to upgrade all station lighting to energy efficient LEDs

- ☑ (15) stations have received new LED trackbed lighting this year - all 48 underground stations scheduled for upgrades over the next three years
- As a result, L'Enfant Plaza's upper level is now 7x times brighter
- ✓ New LED fixtures will produce average annual energy savings of 350,000 kWH per station



### **Reducing Environmental and Operational Impacts**

## **Building for Efficiency**

# Construction and rehabilitation of support facilities

- Largo Water Treatment Plant Net zero
- Andrews Federal Center Bus Garage -LEED Gold
- Cinder Bed Road Bus Garage
- Potomac Yard Station LEED BD+C for Transit pilot





#### Innovation

## Sustainability Lab





Funding and execution of innovative efficiency projects:

- Cooling tower water treatment to reduce chiller water consumption and energy use
- Average savings of \$10,000 per pilot location – all sites in 2018
- Mobile solar lighting towers at Metrorail stations

