

8000-Series Project Update



Purpose & Agenda

8000-Series Project Update

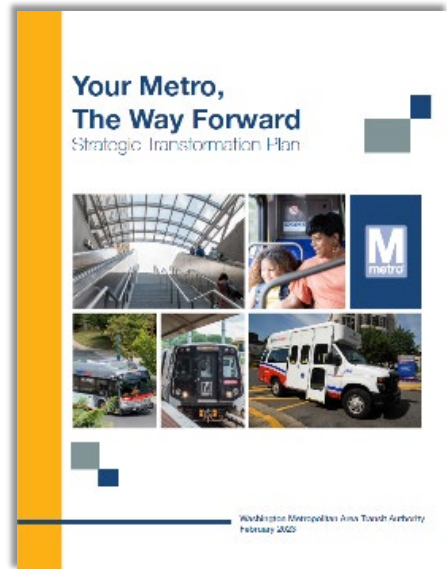
Purpose: Provide a status update on the 8000-Series Vehicle Procurement Project including key milestones, accomplishments to date, and next steps.

Agenda:

1. Project Overview
2. Stakeholder Engagement
3. Vehicle Design Highlights
4. Local Economic benefits and Cost-Saving Features

Strategic Transformation Plan: Guides long term strategy and day-to-day decision making of Metro over the next five + years

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Guiding



Day-to-day decisions

- Customer interactions
- Service schedules
- Communications



Long-term strategy

- Budget allocation
- Capital improvements
- Priority projects

Goals — Our priorities to achieve the vision

Service Excellence

Talented Teams

Regional
Opportunity and
Partnership

Financial
Stewardship and
Resource
Management

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Overview of base order and contract options

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Base order

- Procurement of 256 railcars
 - Contractor: Hitachi Rail USA
 - Project award: November 2020
 - Notice to proceed: March 2021
- Deliverables
 - Spare parts and Special tools
 - Training and training aids
 - Cab simulator
 - Manuals

Vehicle options

- Option 1: 104 Railcars
 - For 3000-series railcar replacement
 - Exercise Due: December 2026
- Option 2: 104 Railcars
 - For service expansion
 - Exercise Due: June 2027
- Option 3: 120 Railcars
 - Exercise Due: At anytime prior to 5 years from the final acceptance of the last railcar of the most recent order

Other options

- Option 4: Vendor Management Inventory
- Option 5: Extended Warranty
 - Additional 2 years
- Additional 216 as required

Delivery schedule

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Schedule

- **November 2020:** Contract awarded
- **February 2024:** Original pilot car delivery date
- **June 2027:** Current pilot car delivery timeframe

Market Conditions

- COVID-19 pandemic
- Global supply chain challenges
- Rail supplier consolidation

Hitachi Performance

- Inadequate engineering resources
- Impractical schedule
- Sub-optimal supplier coordination

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- Open gangway connection
- Integrated system information on digital displays
- Additional handholds



- Larger operator cab space
- Improved accessibility to center door



- Additional handholds
- Digital screen readability (high contrast display)



Key features - exterior design

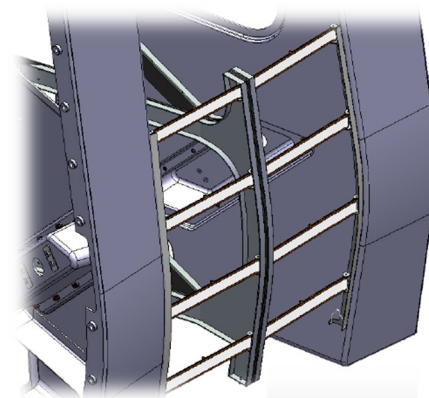
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8000-series vehicles will introduce an enhanced exterior with a modern look and improved safety:

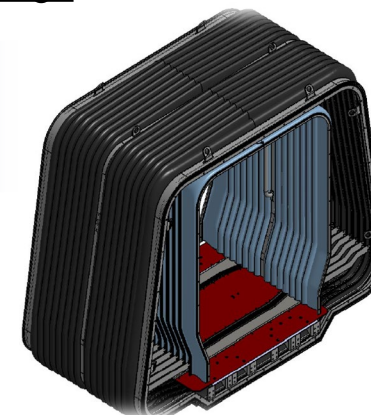
- Painted carbody with confetti-style finish
- Enhanced inter-car barrier for increased safety
- Platform monitoring camera for operator assistance
- Connected car interiors via Open Gangways
- Undercar lighting for maintenance and emergency response



8K exterior design



Inter-car barriers design concept



Gangway between cars

Key features - interior design

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ADA compliance



- Fully ADA compliant interior and exterior design
- New additional door status indicators to enhance passengers and ADA awareness



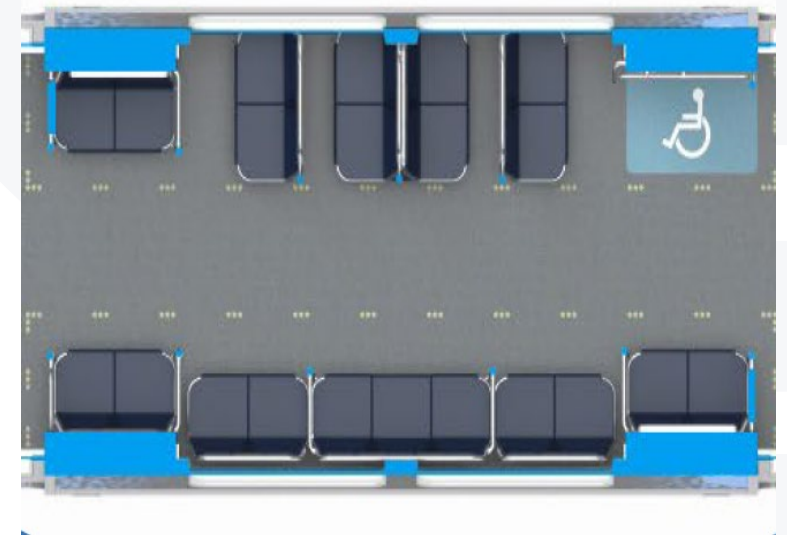
Improved Interior



- Additional handholds and stanchion poles
- Multi-purpose area for strollers, bikes, and large luggage
- Low location exit path marking



Passenger Comfort



- Enhanced passenger seats design with hybrid seating arrangement
- Increased walkway width for better mobility
- Auto-brightness control for interior lighting

Integrated safety and security features

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Video Surveillance



- Improved surveillance with upgraded video system
- Real-time video transmission to control center over 5G and Wi-Fi network



Open Gangway



- Providing safe conditions for passengers to move inside married pair
- Improving visibility inside the train to allow easier monitoring of passengers and potentially deter criminal activities



Cybersecurity

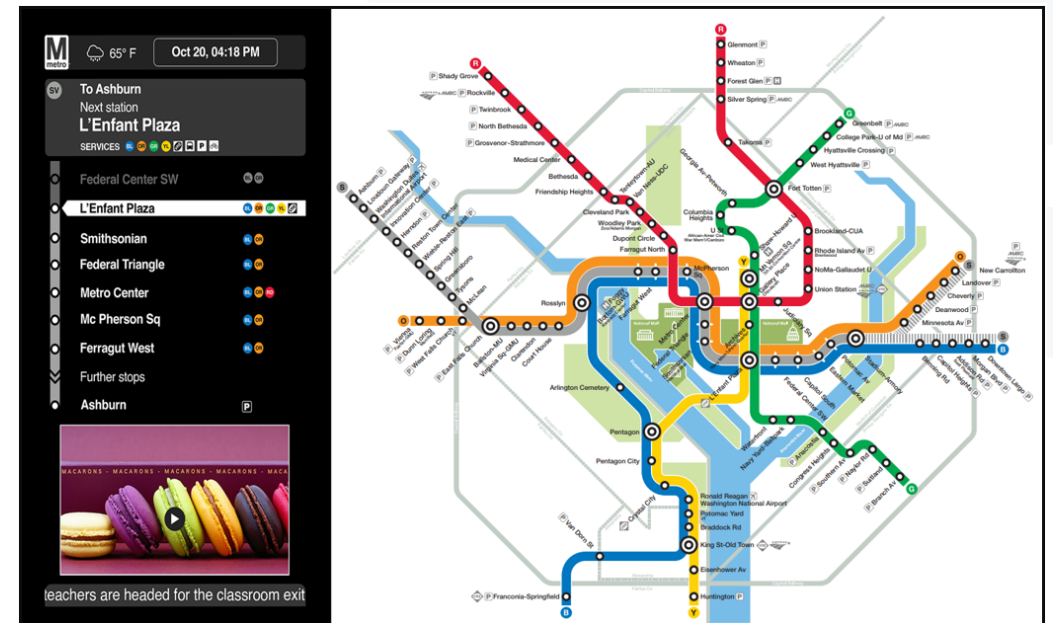
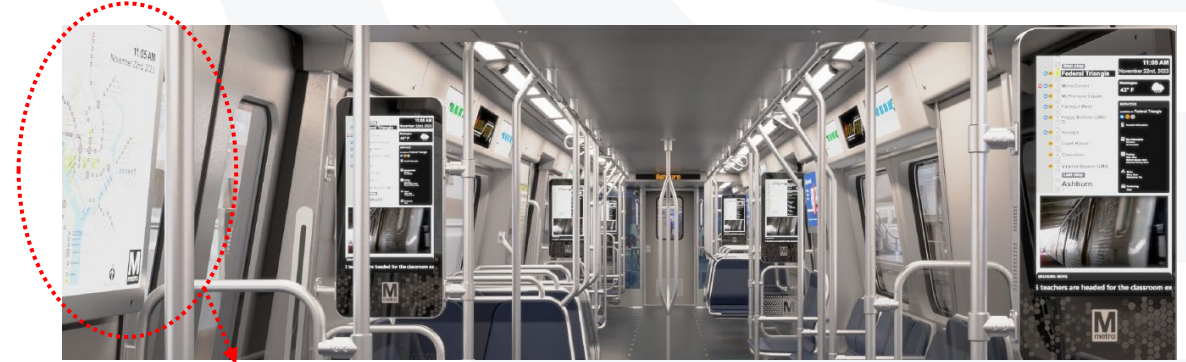


- Developed to latest cybersecurity standards
- Network intrusion detection capability

Enhanced passenger information system through digital modernization

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- Realtime passenger information provided via 28 onboard digital displays
 - Location and route information
 - Transfer information
 - News, weather, system outage
 - Station-specific venues and attractions
- Continuous passenger information updates via 5G and Wi-Fi connectivities
- Creating opportunity for increased revenue



43" Dynamic Route Map Display

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Local economic benefits and cost saving features

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- Production of 8000-series vehicles at Hagerstown facility
 - Up to 460 full-time jobs in Hagerstown
 - Up to 1,300 regional jobs
 - Total \$70M investment



- Design features for long-term cost efficiency
 - Radiant heated floor for comfort and efficiency
 - Auto power saving mode for railcars in yard
 - Selective door close features for end-of-line terminals
 - Auto-brightness control for interior lighting and displays
 - Weight reduction to enhance performance and energy reduction