

8000 Series Passenger Railcars, Simulator, Related Supplies and Services

Project Update- RAC

DATE 05/05/2021



Project Background

The project consists of the design, manufacture and delivery of railcars that will meet the demands and match the infrastructure of WMATA. The 8000 series railcars, will replace all 358 remaining 2000 and 3000 series railcars. The 2000 and 3000 series cars were purchased between 1983 and 1988.

Metro Fleet History

Current and Historical Fleets	Manufacturer	Year in Service	Numbers of Cars
1000 (Retired)	Rohr	1976	300
2000	Breda	1983	76
3000	Breda	1987	290
4000 (Retired)	Breda	1991	100
5000 (Retired)	CAF	2001	192
6000	Alstom	2006	184
7000	Kawasaki	2015	748
8000	Hitachi	2025	256

7000 Series Railcars



Project Scope

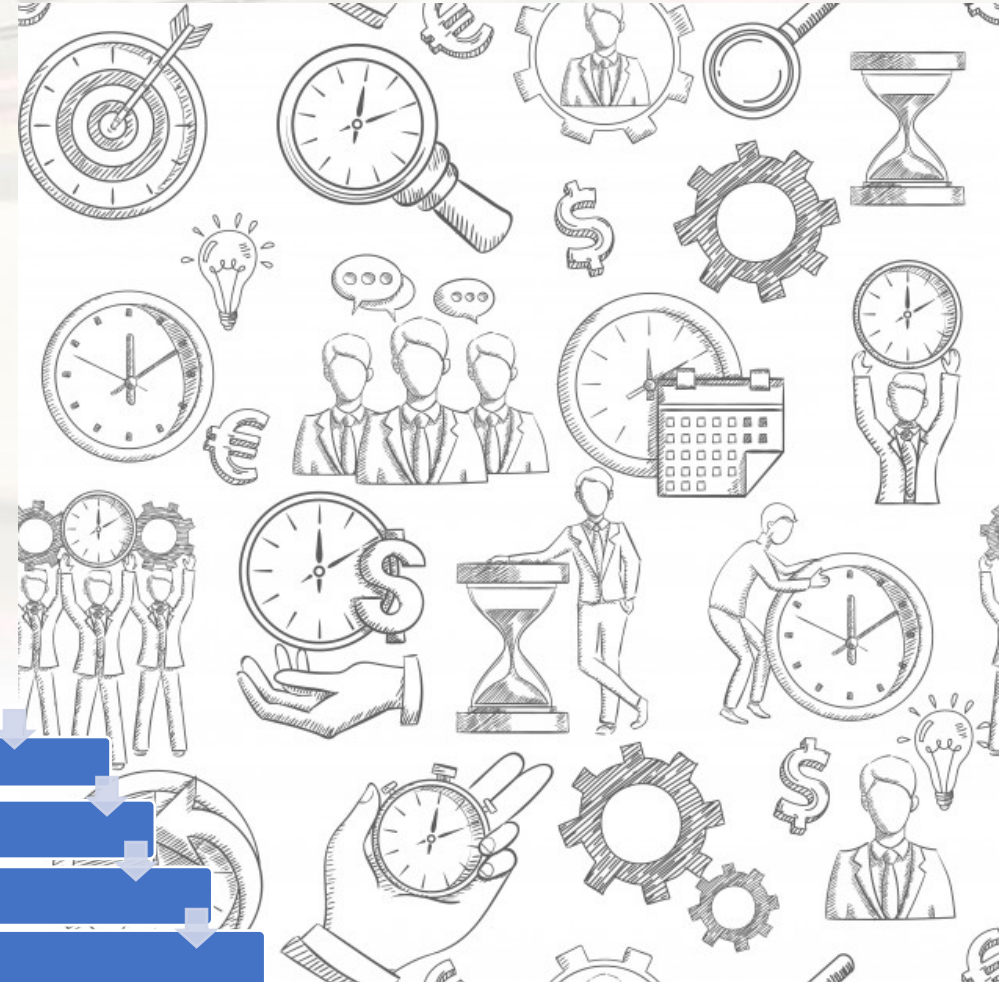
■ 8000 Series Project Scope

- Design, Build and Deliver WMATA 8000 Series passenger railcars, simulator, and spare parts, with options for additional railcars, vendor managed inventory(VMI), and extended warranties.

■ 8000 Series Project base order and options

- Base order : **256 cars (Awarded on November 30, 2020 / NTP on March 1, 2021)**
- Option 1: 104 cars
- Option 2: 104 cars
- Option 3: 120 cars
- Option 4: Vendor Managed Inventory
- Option 5: Extended Warranties
- Unspecified option: 216 cars

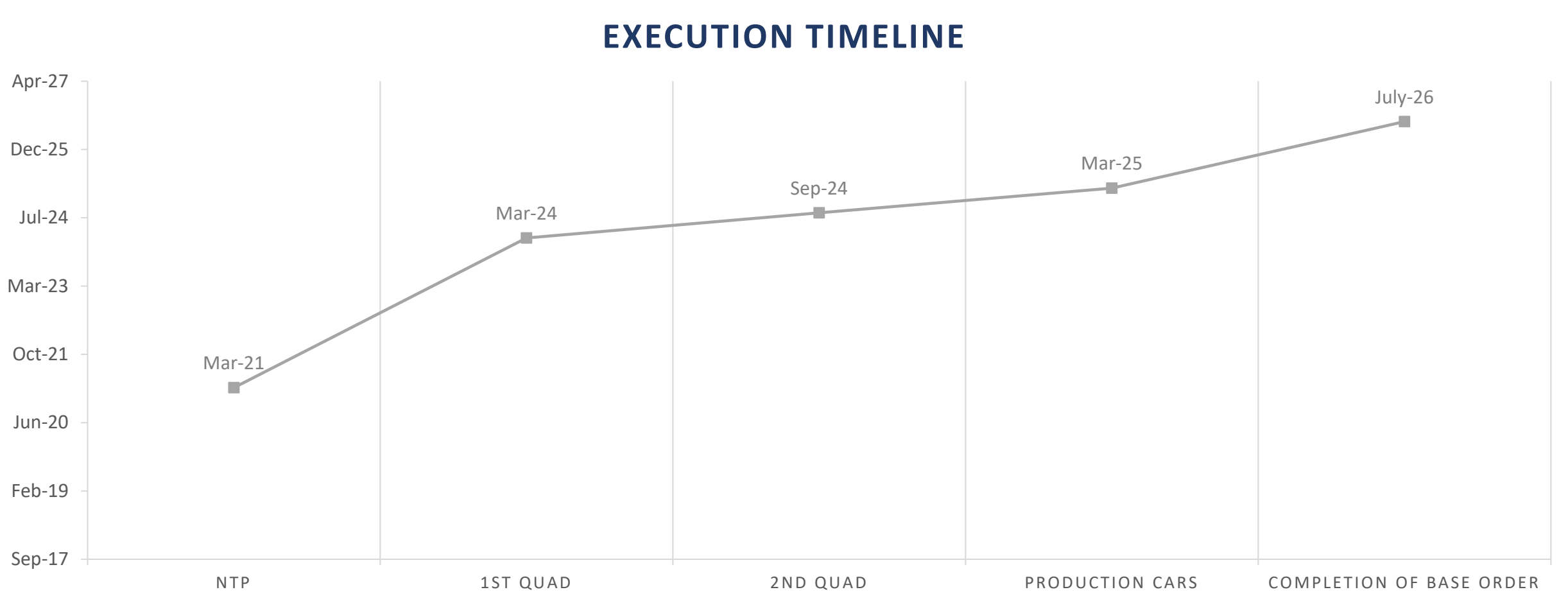
Project Milestones



Project Schedule – Delivery

- Pilot Cars (1st Quad) – March 2024
- First Production Cars (2nd Quad) – September 2024
- Start of Serial Production Cars – March 2025
- Conditional Acceptance of 256 Base Order Cars – July 2026

8K Schedule



Project Strategies

- WMATA overall mission
 - Program focus: safety, reliability of fleet, quality of the railcars, delivery schedule and post delivery warranty support and spare parts
 - Customer amenities
 - ✓ Advanced passenger information system and more signage
 - ✓ Power outlets for charging
 - ✓ Self adjusting automatic interior LED lighting system
 - ✓ Dynamic system maps
 - ✓ Wi-Fi and more
- 3% challenge contribution – Introduce new energy savings functionality and technology
 - Door terminal operations
 - Power Reduction in Yard Mode
 - Weight management
 - ✓ Light weight parts and components
 - ✓ Monitoring and testing



Technology Advancement in 8K

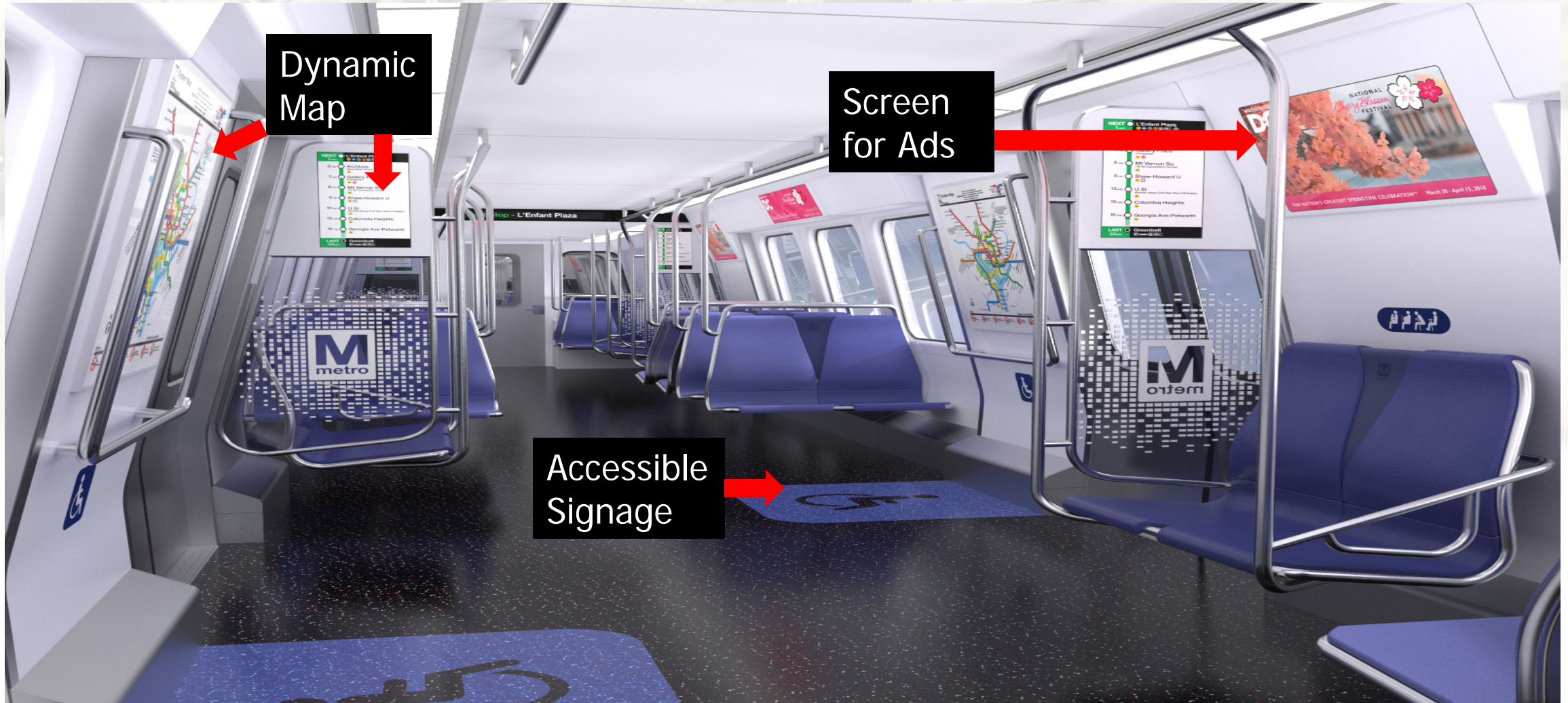
Passenger Wi-Fi



Robust Cyber Security Requirement



Better Passenger Information System



Advanced Passenger Information System



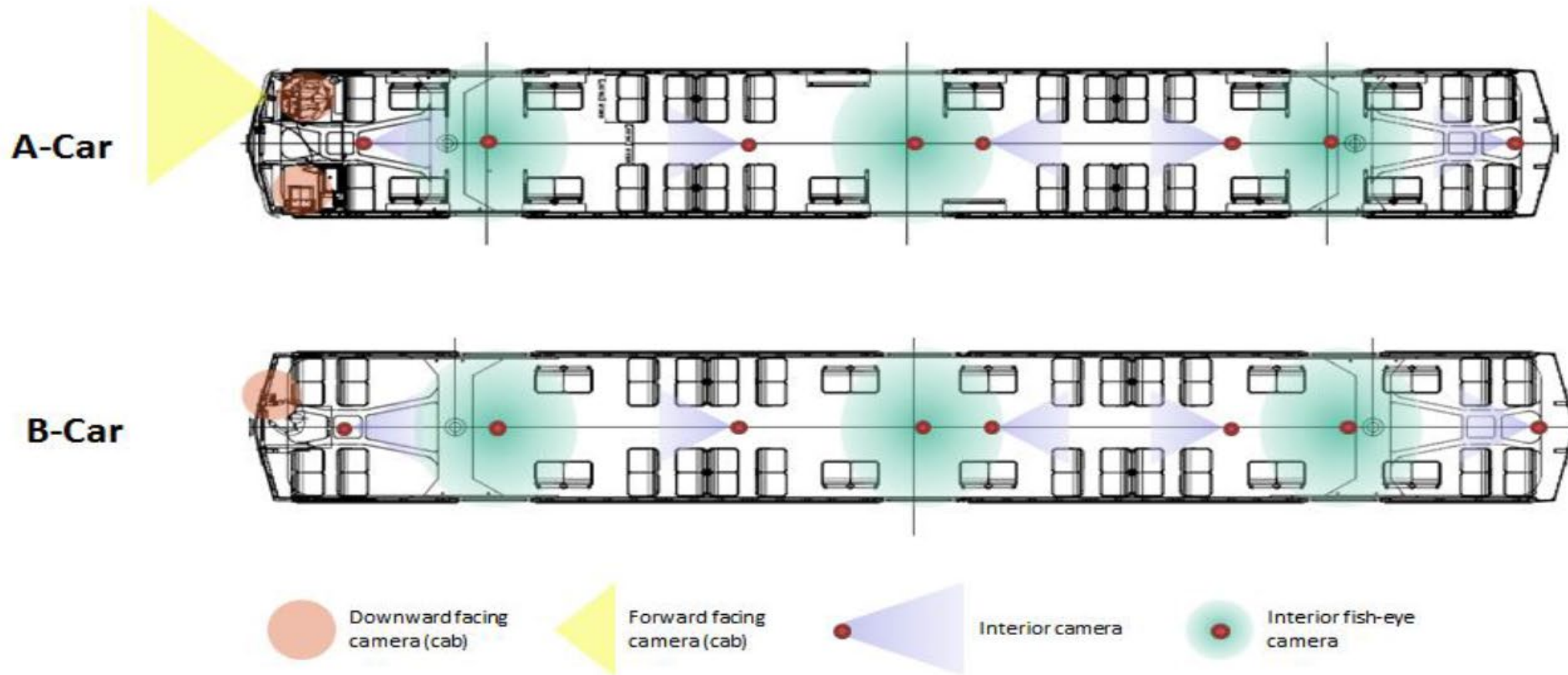
Power Outlet



Re-Positioning of Grab Handle



Advanced and More Security Cameras



Sample Rendition - Exterior



Sample Rendition - Interior

