

Amtrak Acela History

Presented by: Roger Harris, President





Shinkansen 0 Series

In Service: 1964

Speed: 200 kmh+







In Service Planned : 1967 Actual: 1969

Speed: 192 kmh













Passenger Rail in America - 1971







Amtrak





In Service Amfleet : 1975 Superliner: 1979

Speed Amfleet: 176 kmh Superliner: 144 kmh







Testing: 1993

Max speed: 200 kmh







Acela First Generation

In Service: 2000

Speed: 240 kmh





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Infrastructure Preparation and Cost



- \$1.5 billion for infrastructure upgrades including:
 - Electrification of 157 miles of the Northeast Corridor between New Haven, CT and Boston
 - 15,000 catenary poles and 1,550 miles of wire
 - 140 miles of continuous welded rail and 127 realigned curves
 - 300,000 concrete ties
 - 25 power stations
 - Lowered or rebuilt tracks and bridges to provide clearance for the new electrical system
- **\$900 million** for 20 Acela trainsets from Alstom and Bombardier, 15 electric locomotives and 3 new maintenance facilities
- **\$200 million** for stations and environmental mitigation





New York-Washington Air-Rail Market

100%



100% 80% 60% 40% 57% 57% 54% 56% 56% 54% 54% 54% 53% 52% 52% 50% 49% 41% 41% 39% 38% 36% 20% 35% 21% 20% 0% FY01 FY16 FY00 FY02 FY03 FY04 FY05 FY06 FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY17 FY18 FY19 FY20 Air Acela introduced Rail

New York-Boston Air-Rail Market



Volumes & Market Share by Mode















Life of Program Investment: \$2.3B

- Trainset contract awarded to Alstom, 2016
- Design and manufacturing of 28 trainsets

New Acela Service

- Premium service between Washington, DC, Baltimore, Philadelphia, New York City and Boston
- First Class 42 seats/Business Class 336 seats
- Only high-speed service in Americas
- 40% more efficient per seat mile in terms of energy consumption

Key Features

- Personal outlets, USB ports, and reading lights at every seat
- Wi-Fi
- Fully accessible café car
- Self-service food/beverage checkout

Testing & Production

- Certification underway
- Fleet production ongoing in Hornell, NY

Initial Revenue Service

• 2024 (expected)





In Service: 2024?

Speed: 256 kmh







Facility and Station Improvements





- Aging infrastructure requires significant financial resources and limits near-term performance
- SOGR backlog needs over the next 15 years include:*
 - \$42 billion for 16 major backlog projects (primarily bridges & tunnels)
 - \$37 billion for basic asset replacements:







Amtrak Readiness for New Acela

REVENUE SERVICE LAUNCH



