



# **FRA National Vehicle Program (TO 7)**

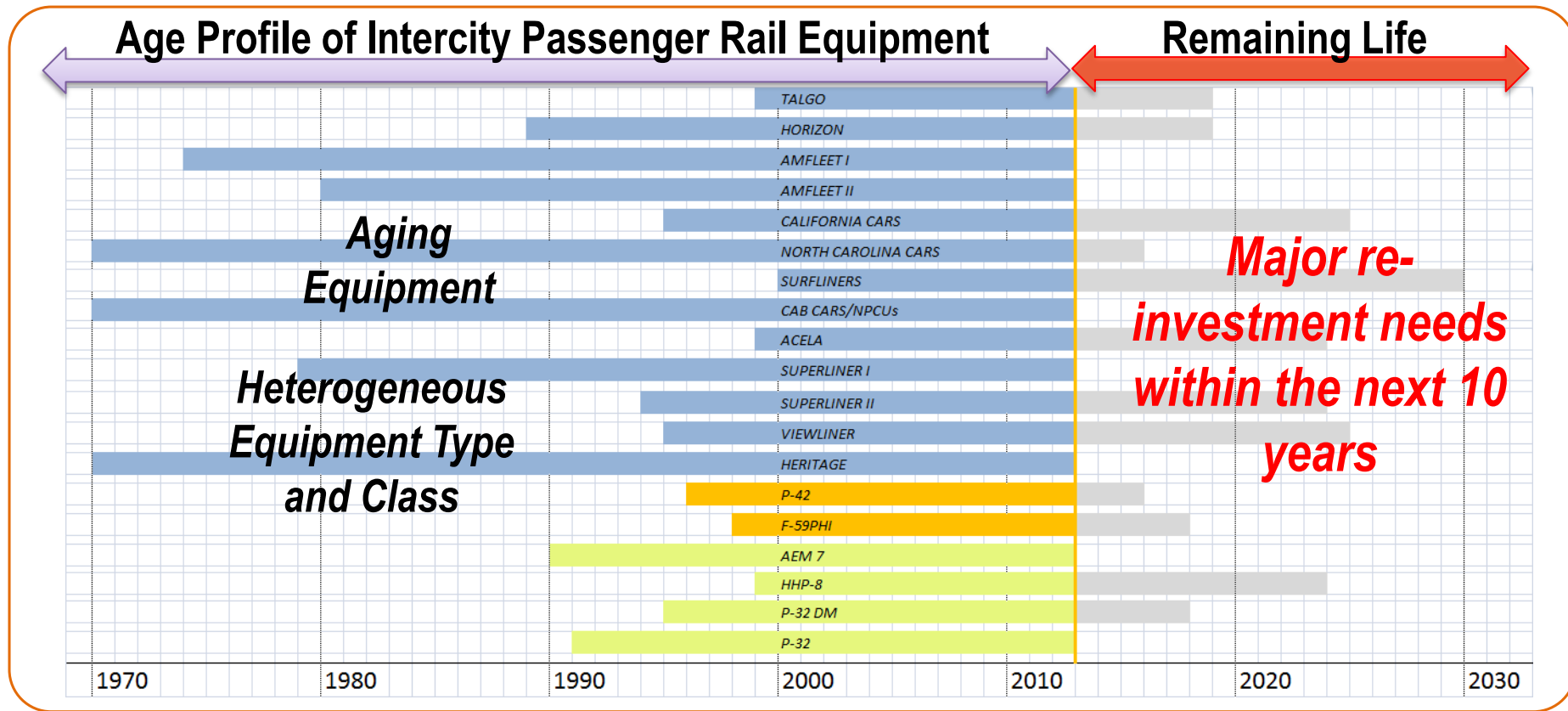
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**FRA Equipment Project Manager**

# **Vision for FRA national rolling stock program:**

- **National pool of standardized and fully interoperable portfolio of next-generation equipment**
- **Flexible deployment throughout the country**
- **Exceeding current ADA standards**
- **Based on sustainable equipment budget for future investments**

# Passenger Rail Equipment is Aging – FRA has taken Action to Support State Corridor Equipment



- Equipment is aging and over-utilized compared to industry standards
- Lack of standardization and homogeneity in current fleet
- Consolidated industry with limited supply base impacts range of choices

# FRA Actions and Equipment Program Goals

**FRA initiated a multi-pronged strategy to address the challenge**

## FRA Actions

**Program Goals** – established goals to guide FRA decisions

**Funding/Financing** – utilized HSIPR grants and RRIF loans to provide funding for immediate needs

**Next Generation Equipment Committee (NGEC)** – actively engaged with NGEC and the States to prepare for and execute procurements

**Technical Assistance** – providing technical assistance to states for equipment procurements

## Equipment Program Goals

**Jobs** – re-establish the manufacturing base in the US and create high quality jobs

**Quality** – ensure that rolling stock better matches the needs of state corridors and represents next generation equipment

**Costs** – minimize life cycle costs consistent with maintaining a state of good repair

**Flexibility** – equipment that is managed and deployed based on market demands with the ability to re-allocate as necessary

# **FRA's Grants to Support the Equipment Program Exceed \$1 billion**

- In total, **FRA obligated over \$1 billion** to support the equipment program
- Funds provided to various projects in California, Illinois, Missouri, Michigan, North Carolina, Wisconsin, and Washington
- Alone \$808 million in Federal Funding with total funding of \$850 million, including state match, support the procurement of next-generation equipment for 35 diesel locomotives and 130 bi-level cars
- Procurements will utilize standardized equipment specifications developed by PRIIA 305 Next Generation Equipment Committee (NGEC)
- **Two multi-state procurements are well underway to roll out this equipment in 2016 to 2018**

# FRA Equipment Grants Support Various Regions for New Equipment, Design Support, and Rehabs

## High Speed Intercity Passenger Rail Grants



**8 Diesel Locomotives**



**HSR**

**6 Diesel Locomotives**  
**53 Bi-level Cars**  
**16 HSR Trainsets**



**21 Diesel Locomotives**  
**Up to 122 Bi-level Cars**



**HSR**

**28 HSR Trainsets**



**Diesel Locomotive Rehab**

**Legend:**  
Conventional Equipment max. 125mph  
HSR trainset equipment > 150mph



# Procurement of 130 bi-level Rail Cars built by Nippon Sharyo in a Brand New Facility

- **Manufacturer - Sumitomo Corporation and Nippon-Sharyo**
- **Additional 45 options cars currently being negotiated**
- **100% Buy America compliant**



Artist rendering of new bi-level car  
Source: Nippon Sharyo

# Procurement of 130 bi-level Rail Cars built by Nippon Sharyo in a Brand New Facility

- Manufacturer - Sumitomo Corporation and Nippon-Sharyo
- Project cost - \$352 million for 130 cars (plus 45 option cars in negotiations)
- Lead Procuring State - California
- Other States in Current Procurement – Illinois, Missouri, Michigan, Wisconsin
- Car Deliveries - Summer 2016 to Mid 2018 (anticipated)



## Benefits:

- Creating more than 330 new high quality jobs in new multi-shop facility in Rochelle, IL
- FRA Buy America ensures high domestic content
- Standardization will increase competition in supply industry and lower life-cycle cost
- Accessibility standards go above and beyond statutory requirements



# Procurement of 35 High-performance Diesel-electric Locomotives

## Manufacturer – Siemens USA

- Compliant with EPA Tier 4 Emission standards
- 100% Buy America compliant



# Procurement of 35 High-performance Diesel-electric Locomotives

- Manufacturer – Siemens USA in Sacramento, CA
- Lead Procuring State - Illinois
- Other States in Current Procurement – California, Michigan, Missouri, Washington, Wisconsin
- Other agencies/operators can “piggy-back”
- Utilize PRIIA 305 NGEC specifications
- Deliveries – Fall 2016 to Summer 2017



## Benefits:

- Environmental friendly locomotives complying with EPA Tier 4 emission standards
- Next Generation Performance Requirements - Light weight; Innovative truck design reducing wear and tear on infrastructure; Maximum operating speed 125mph;
- FRA Buy America ensures high domestic content
- Standardization will increase competition in supply industry and lower cost of maintenance