

2016

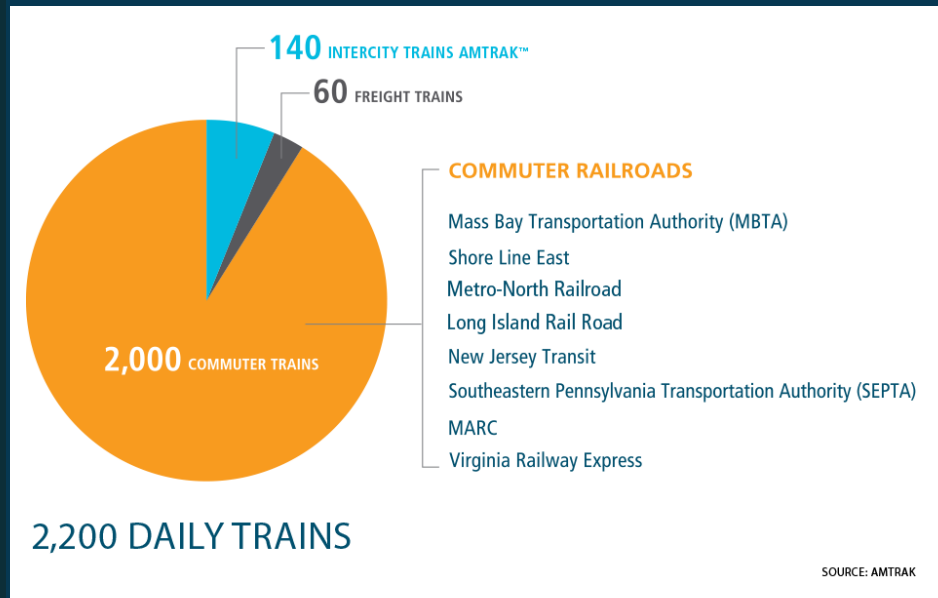
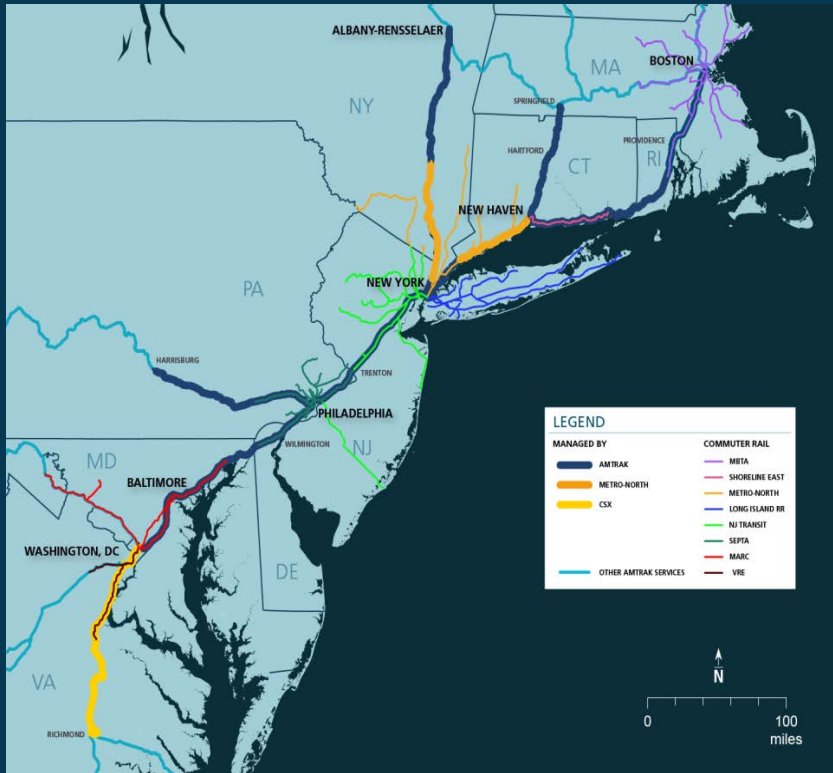
FRA Rail Program Delivery Meeting

Hudson Tunnel Project

Amishi Castelli, FRA

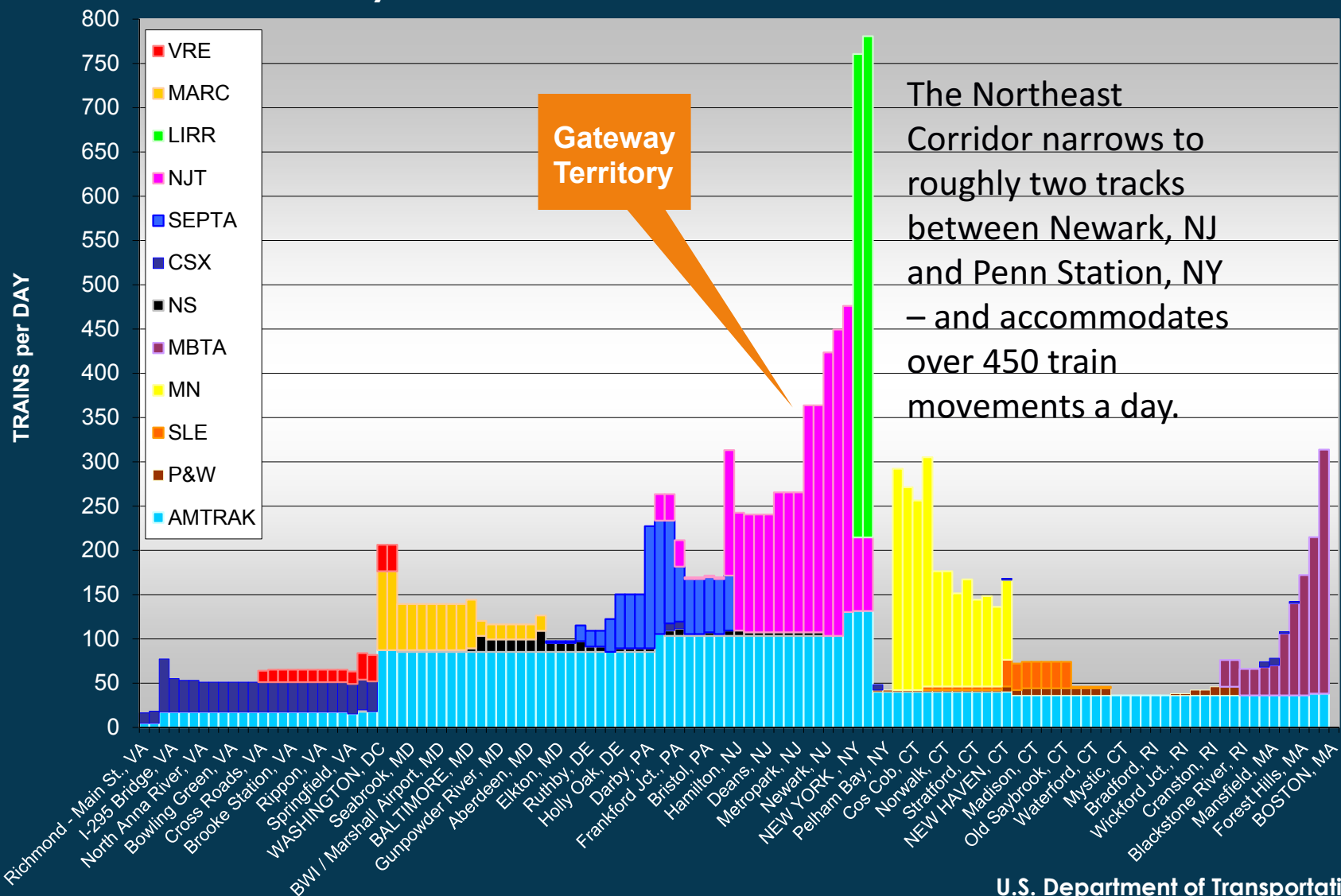
Marie Corrado, Amtrak

In the heart of the Northeast Corridor is Penn Station NY



Amtrak operates 54% of all Train Miles.

- ▶ The most constraint coupled with the highest ridership
- ▶ Relying On 2 Tracks over Busiest Territory
- ▶ And one 106 year old tunnel under the Hudson River



Superstorm Sandy Makes it an Emergency

- ▶ Both tubes of existing North River Tunnel were inundated during Superstorm Sandy
- ▶ Tunnel was closed for 5 days
- ▶ Existing rail tunnel safe for use
- ▶ Storm damage continues to degrade tunnel systems
- ▶ Requires emergency maintenance and disrupts rail service
- ▶ Long-term, the storm damage can only be addressed through a comprehensive reconstruction of the tunnel



Photo courtesy of Amtrak

Project Need

CRUMBLING BENCH WALL



Photo courtesy of Amtrak

SPALLING OF CONCRETE TUNNEL LINER



Photo courtesy of Amtrak

Imminent Development Makes It A Bigger Emergency

- ▶ Final design began in December 2012, completed in August 2013 – “fast track”
- ▶ Amtrak contracted Tutor Perini Civil (TPC) - \$144M constr. cost
- ▶ Construction began in late 2013 - tunnel now complete/backfilled





Concrete Casing
(Phase I)

Hudson Yards ROW Preservation



Hudson Yards ROW Preservation



Box Girder
Supporting 11th
Ave Superstructure

100



- ▶ Each tube of the existing North River Tunnel must be closed for more than a year for reconstruction
- ▶ Closing either tube of the tunnel without new capacity would significantly cut service levels
- ▶ Project will build two new rail tubes beneath the Hudson River to maintain the existing level of train service while the damaged tubes are taken out of service
- ▶ Project includes reconstruction of the existing North River Tunnel

Tunnel Closure Operating Scenario

A Vital Link at Risk

The Impact of a Hudson Rail Tunnel Closure

Today
100%



25%

With **two tunnels**, capacity is **24 trains** per hour*



With **one tunnel**, capacity falls to **6 trains**, or **25%**



*Inbound, at peak morning times



Project Overview: Partners

- ▶ **FRA:** Federal lead agency for NEPA
- ▶ **NJ TRANSIT:** Co-lead agency for NEPA
- ▶ **Amtrak:** Project Design & Permitting
- ▶ **Port Authority of NY & NJ:** Project
Coordination & Development

More Partners

- ▶ November 12, 2015 NY Governor Andrew Cuomo and NJ Governor Chris Christie announce commitment to contribute 50% of the cost of the Gateway Program – including the Hudson Tunnel
- ▶ MOU signed by USDOT, Amtrak, NJ Transit and the Port Authority of NY & NJ agreeing to cooperate on implementing the Gateway Program
- ▶ Executive Committee formed in November of 2015 including the partners and representatives of the NY and NJ governors and Senators Schumer, Booker, and Menendez is guiding the work on
 - ▶ Creating a special purpose entity to implement the Gateway Program
 - ▶ Funding and Finance Plan
 - ▶ Early investments



THE PORT AUTHORITY OF NY & NJ



Agency Coordination

TO DATE (more agencies may be invited as appropriate):

Lead Agencies (2)

- ▶ Federal Railroad Administration
- ▶ NJ TRANSIT

Cooperating Agencies (2)

- ▶ Federal Transit Administration
- ▶ U.S. Army Corps of Engineers

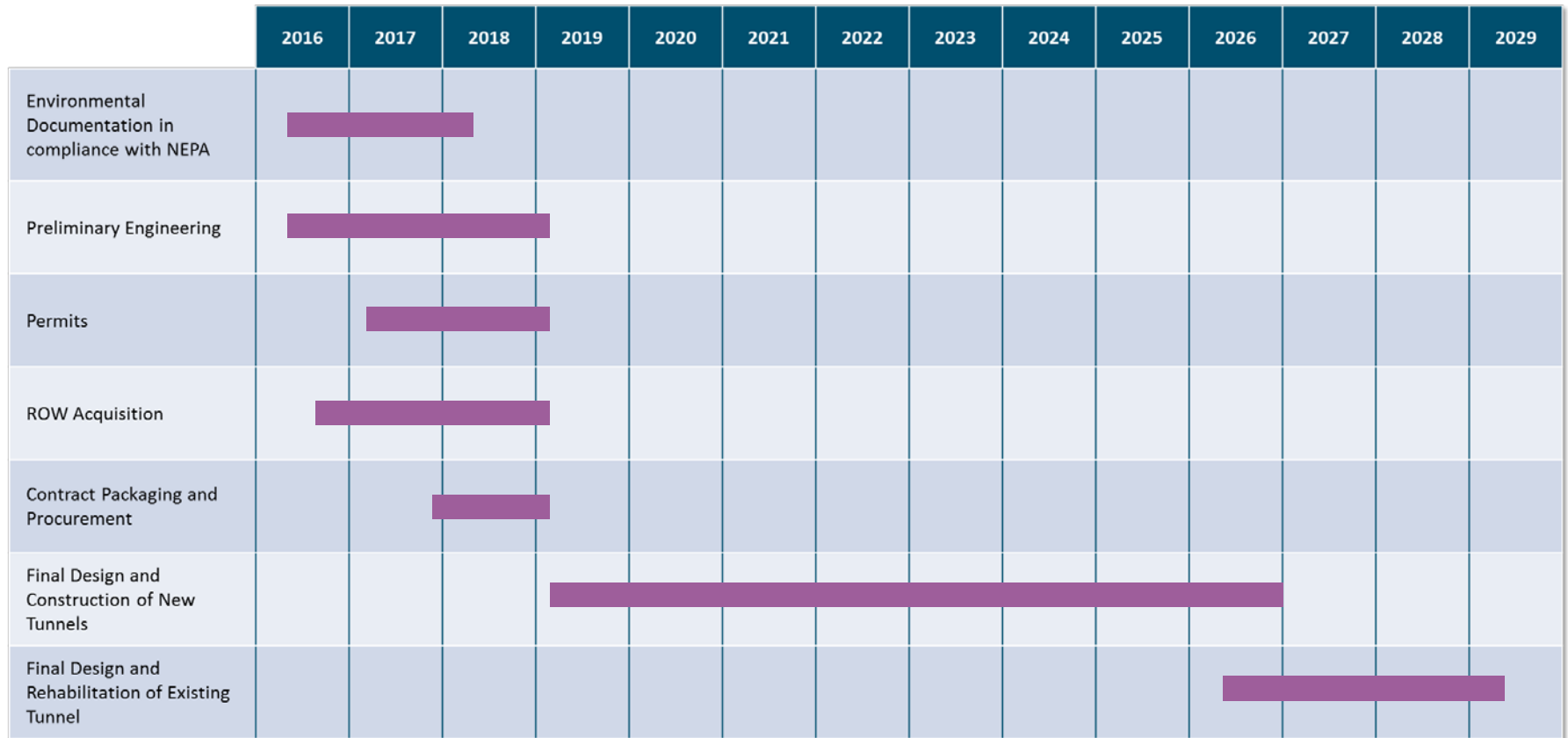
Federal Participating Agencies (7)

- ▶ U.S. Coast Guard
- ▶ U.S. Environmental Protection Agency
- ▶ U.S. Fish and Wildlife Service
- ▶ NOAA National Marine Fisheries Service
- ▶ Federal Emergency Management Agency Region II
- ▶ U.S. Department of Homeland Security
- ▶ Advisory Council on Historic Preservation

State, Regional, and Local Participating Agencies (18)

- ▶ New Jersey Department of Environmental Protection
- ▶ New York State Department of Environmental Conservation
- ▶ New York State Department of State
- ▶ New Jersey State Historic Preservation Office
- ▶ New York State Historic Preservation Office
- ▶ Hudson River Park Trust
- ▶ New York State Department of Transportation
- ▶ New Jersey Department of Transportation
- ▶ Port Authority of New York and New Jersey
- ▶ North Jersey Transportation Planning Authority
- ▶ New York Metropolitan Transportation Council
- ▶ New Jersey Sports and Exposition Authority
- ▶ New York City Department of Transportation
- ▶ New York City Mayor's Office of Capital Project Development
- ▶ New York City Mayor's Office of Sustainability
- ▶ New York City Department of City Planning
- ▶ New York City Department of City Planning, Environmental Assessment and Review Division
- ▶ New York City Department of Environmental Protection

Full Project Schedule



2016

FRA Rail Program Delivery Meeting

Thank you!

Amishi Castelli

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