Northeast Corridor High Speed Rail Washington to Boston

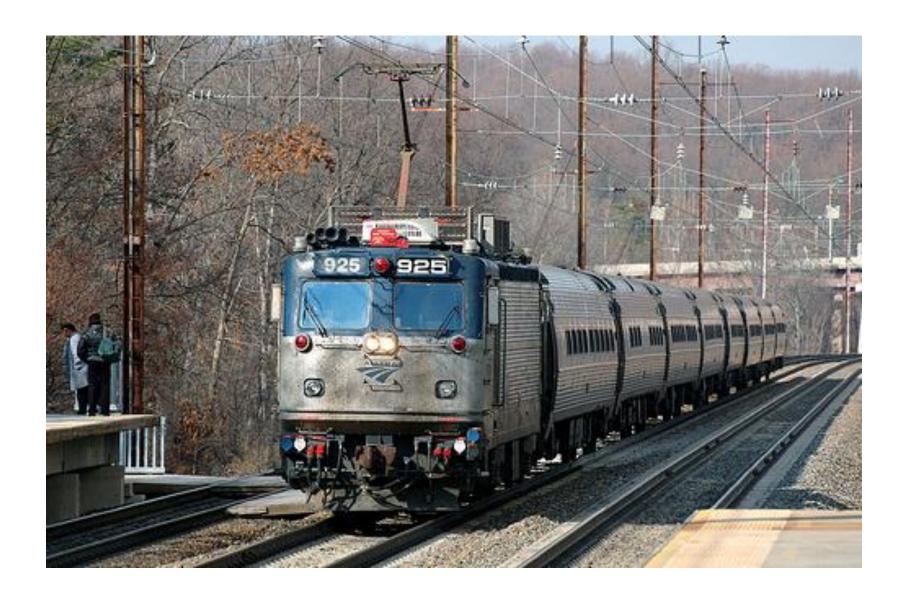
Robert Ravelli

THE AMTRAK® SYSTEM





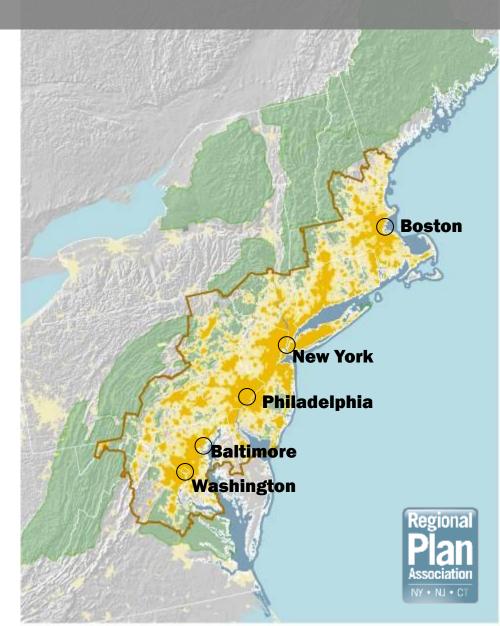




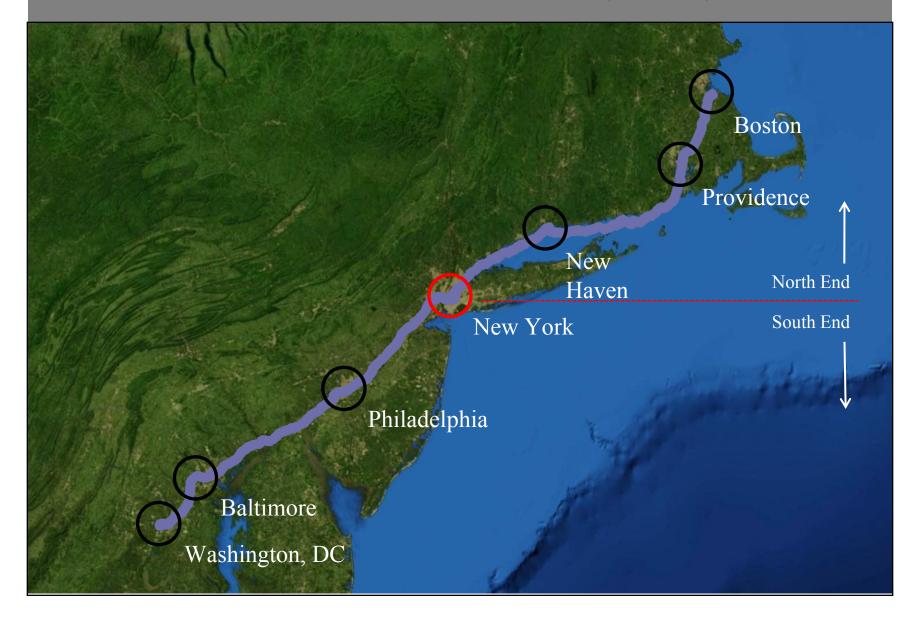


The Northeast Megaregion

- 457 miles long
- 49 million inhabitants
- 17% of U.S.
 population on 2%
 of the land area
- 20% of U.S. GDP
- Will add 19 million additional people by 2050



Northeast Corridor (NEC)

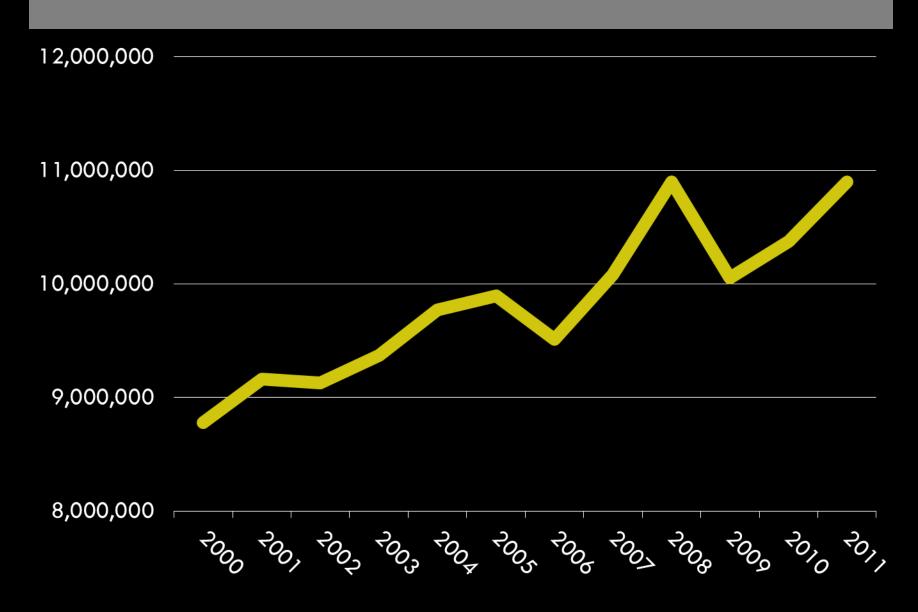




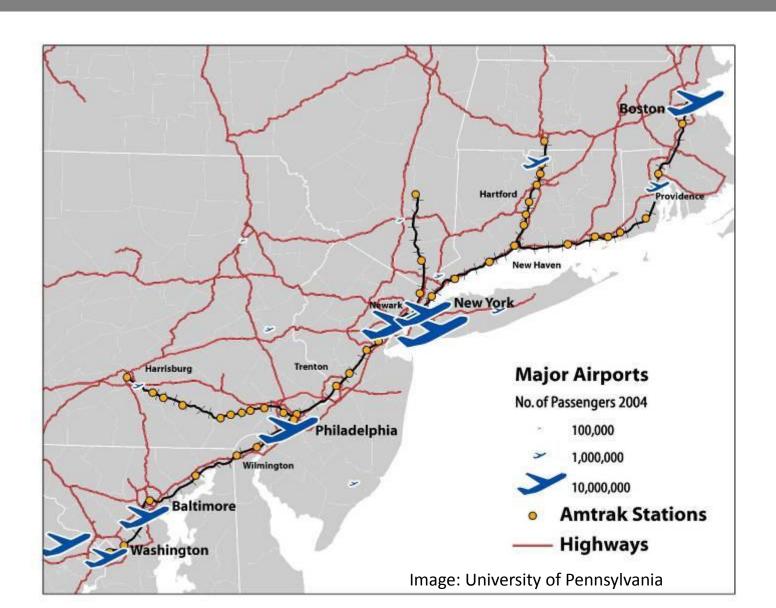
Demand for Rail is Increasing

- Since 2000, annual ridership on Amtrak's intercity NEC services has increased by over 30%, from 8.6 million in 2000 to 11.4 million passengers in 2012.
- Between 2000 and 2011, Amtrak's share of the air/rail travel market increased from 37% to 75% for trips between New York City and Washington, DC, and from 20% to 54% for trips between New York City and Boston.

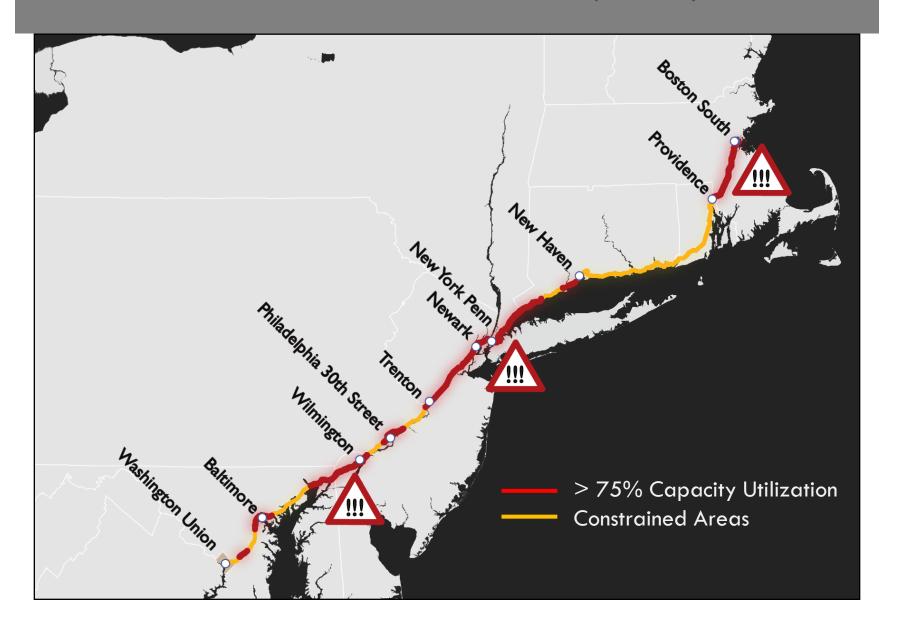
Amtrak's Northeast Corridor Ridership

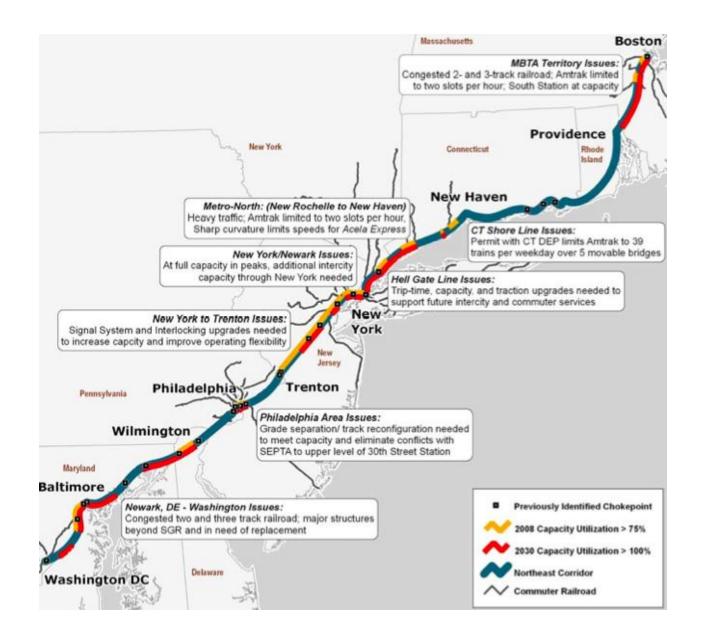


Transportation Infrastructure



Northeast Corridor (NEC)



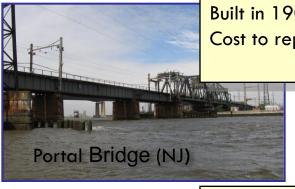


The NEC's Centenarian Asset Hall of Fame

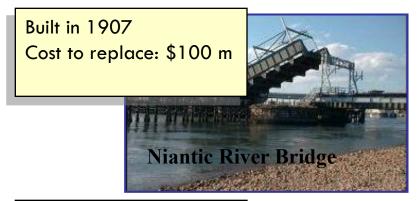


Cost to replace: \$225 m

Built in 1906 Cost to replace: \$550 m Susquehanna River Bridge



Built in 1906, Cost to replace: \$1.5 b



Built in 1907 Cost to replace: \$210 m

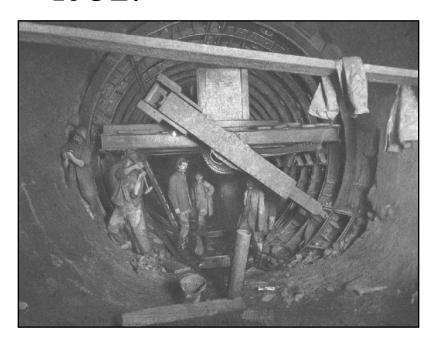
Built in 1873 Cost to replace: \$1.2 b

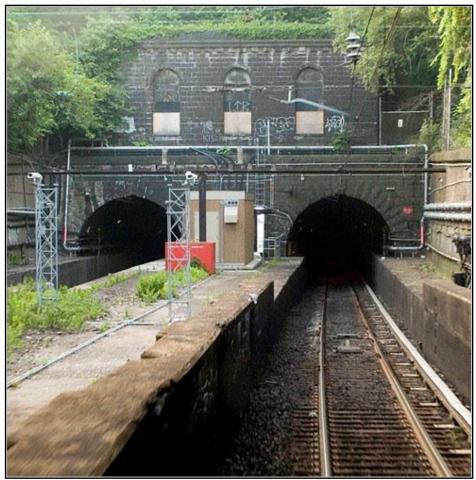


Source: Amtrak

Crossing the Hudson

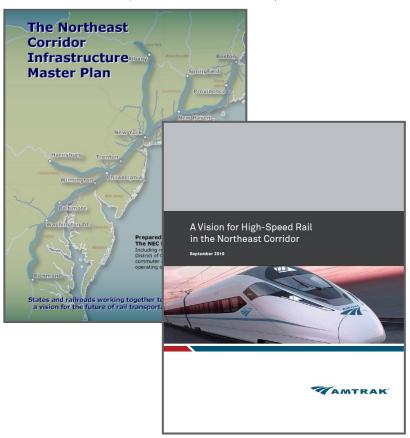
• The North River tunnels built in 1910 and electrified in 1932.





Plans for the Future of the Northeast Corridor

Amtrak (2010, 2011)



U. of Penn. (2010 - 2012)



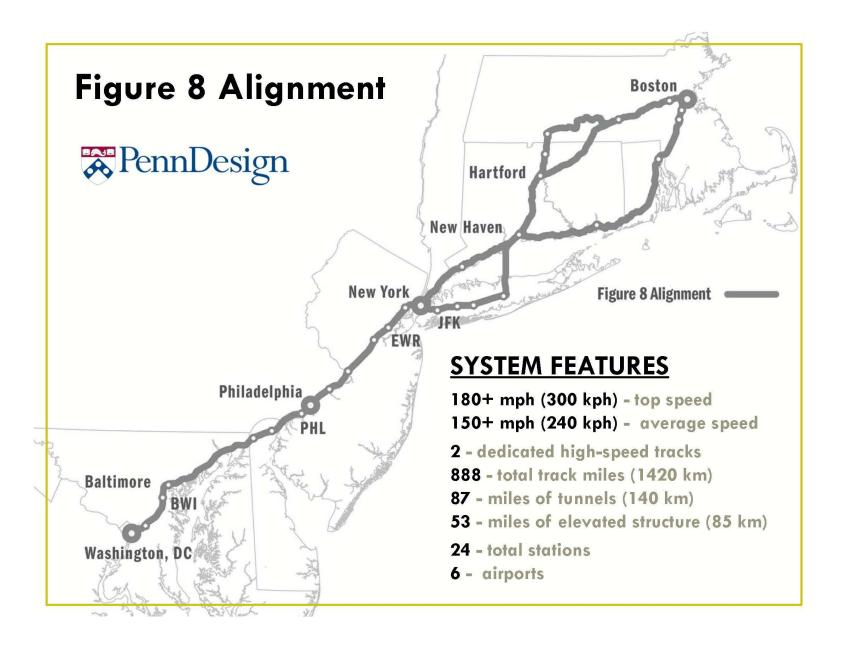
In February 2012, the FRA launched **NEC Future**, an effort to create a passenger rail corridor investment plan

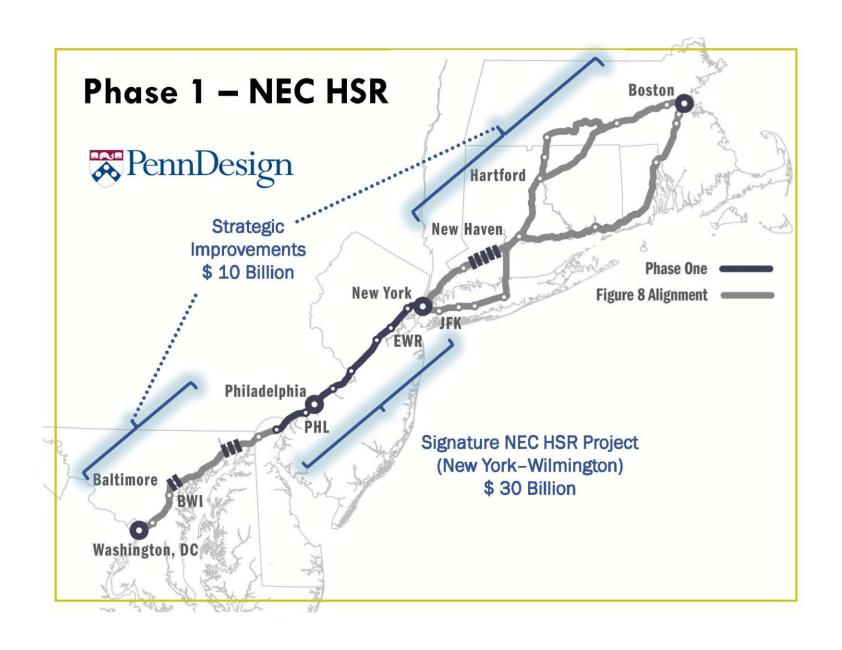
- Objective: Define, evaluate, and prioritize future investments in the Northeast Corridor.
- Goal: Develop an integrated passenger rail solution for the Northeast that improves mobility, meets current and future transportation needs, and sustains and advances economic growth.
- Result: Investment strategy that the FRA can endorse for Next Gen HSR beyond 2025.

Figure 23: Travel Times: Existing and Projected Stair-Step Milestone Years (in Minutes)



Source: Amtrak









Phased Development and Evaluation of Alternatives

NEC Service (Tier 1) NEPA

Phase 1

Purpose & Need

Stakeholder Outreach

Data Collection

Scoping

Preliminary Alternatives

Development

Phase 2

Reasonable Alternatives

Development

Environmental Resource
Evaluation

Draft EIS

Draft Service
Development Plan

Phase 3

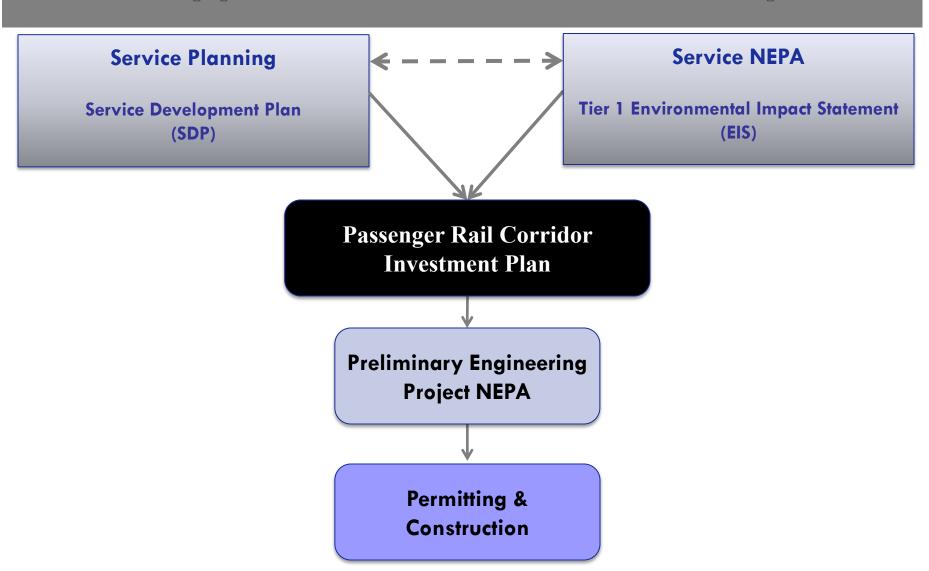
Final EIS

Record of Decision

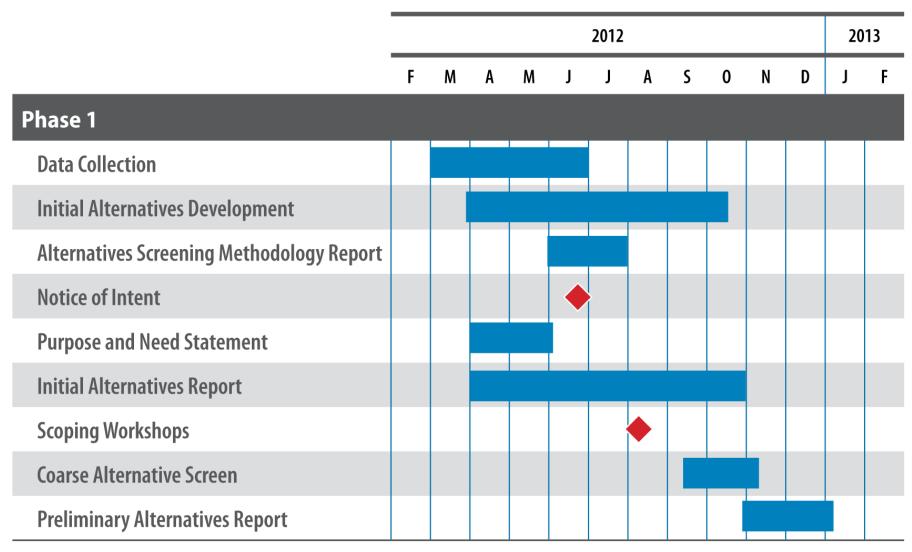
Final Service
Development Plan



FRA's Approach to Corridor Development

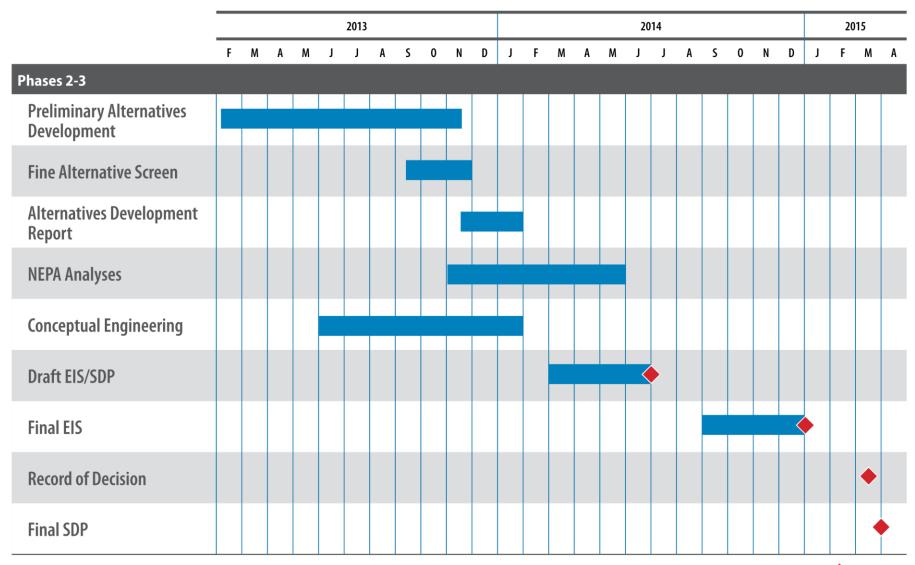


Phase 1





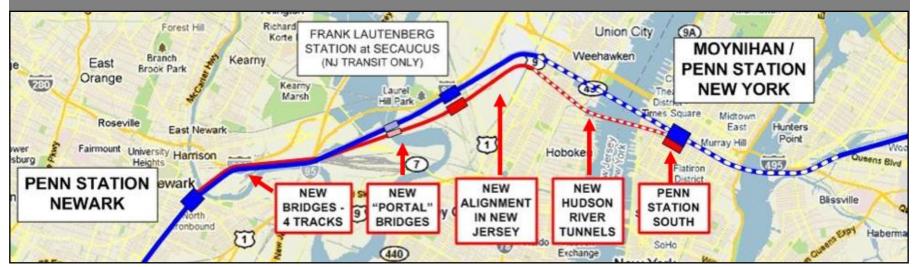
Phase 2-3

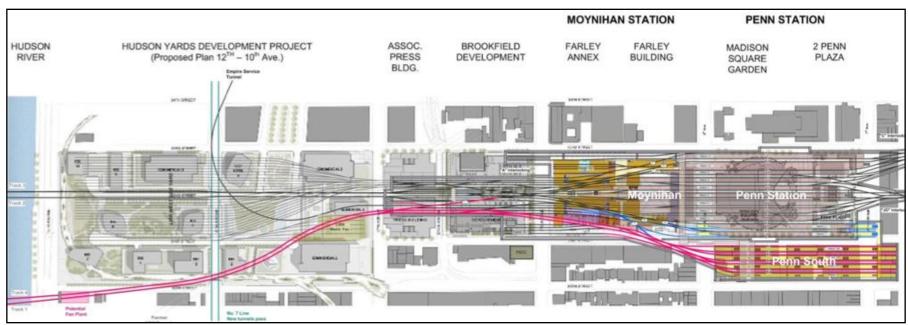


How to Fund/Implement?

- Northeast Corridor Infrastructure & Operations Advisory Commission will look at institutional alternatives
- Develop a common methodology for allocating costs
- There is a need to create a new entity that can attract private capital

The Path Forward for NEC HSR: Gateway





Historic Penn Station











MADISON SQUARE GARDEN CENTER • architect: CHARLES LUCK-MAN ASSOCIATES; general contractor: TURNER CONSTRUCTION CO. & DEL E. WEBB CORP.; consulting engineers: SYSKA & HENNESSY, INC.; plumbing contractor: WACHTEL PLUMBING CO., INC.; plumbing wholesaler: GLAUBER, INC.; fixture manufacturer: KOHLER CO. TWO PENNSYLVANIA PLAZA • architect: CHARLES LUCKMAN ASSOCIATES; general contractor: TISHMAN REALTY & CONSTRUCTION CO., INC.; consulting engineers: JAROS, BAUM & BOLLES; plumbing contractor: WACHTEL PLUMBING CO., INC.; plumbing wholesaler: GLAUBER, INC.; fixture manufacturer: KOHLER CO.

Madison Square Garden Center

-a new international landmark

Current Penn Station

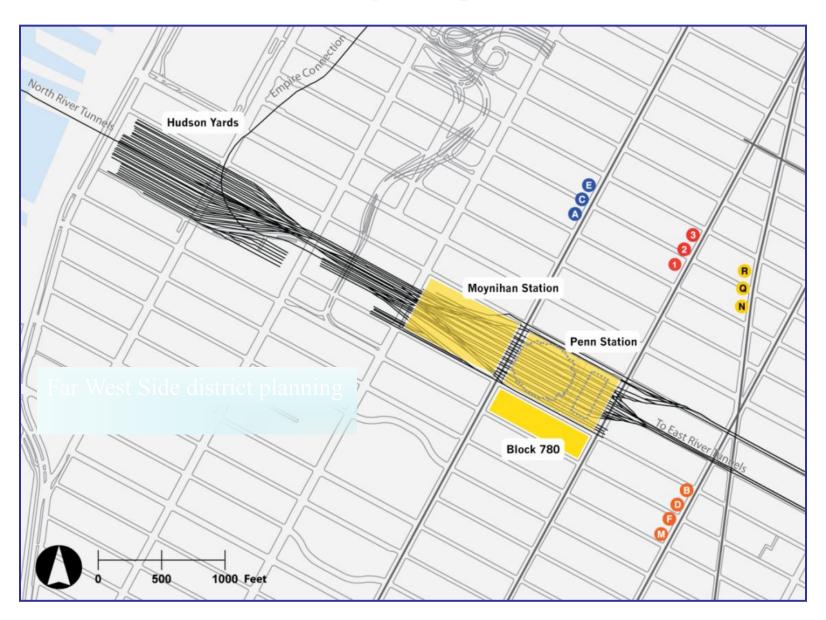


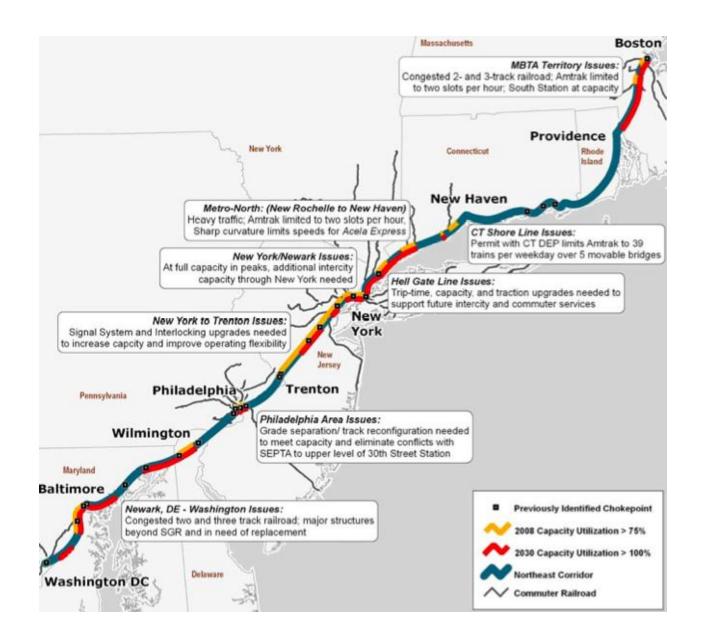






The New Penn/Moynihan District





Next Steps





