









A C Line Review

**Presentation to the Riders Alliance
MTA New York City Transit
February 23, 2016**



Agenda

- MTA Commitment
 - **Review** all subway lines
 - **Completed** , , ,  
- What a Line Review Addresses
- NYC Transit Loading Guidelines
- Operational Feasibility
- Service Design and Scheduling
- Ridership, Crowding, and  Train Length
- Recommendations

What a Line Review Addresses

- Adequacy of service design
 - Routing
 - Number of trains scheduled
 - Hours of service
- Reliability of operations
 - Causes of delays
 - Other operational challenges
- Conditions on the line
 - Rolling stock, stations, and infrastructure
- Communications
 - Internal, for service management
 - Between NYCT and our customers

Goal: Identify potential “more bang for the buck” short- to medium-term improvements

NYC Transit Loading Guidelines

- Impartial allocation of service citywide

- Ridership levels at “peak load points”
- Maximum time between trains (“headway”)
- Time of day / Day of week

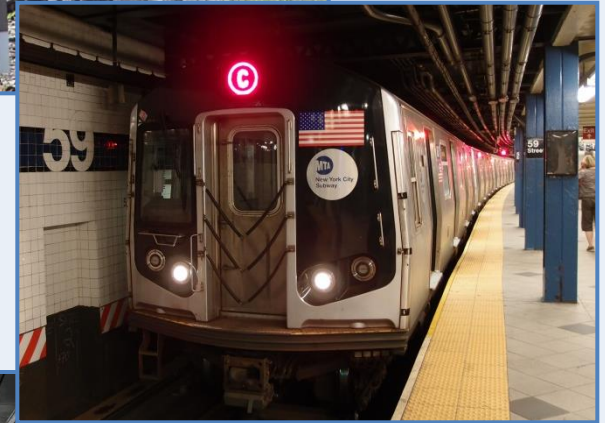
Excerpt from NYCT Loading Guidelines				
Train Type	Peak		Off-peak	
	Passengers Per Train	Max. Avg. Headway	Passengers Per Train	Max. Avg. Headway
600' Train (like A)	1,400	10*	700	10 – 20*
480' Train (like C)	1,160	10*	500	10 – 20*

* 20 to 24-min. max. headway for branches and shuttles, like Rockaways.


- Heavier loads rush hours vs. off-peak
- More trains on busy lines than less busy lines (**E** vs. **C**)
- Operational feasibility







Operational Feasibility

- Safety
- Infrastructure Capacity – tracks, signals, yards, shops
- Running times
- Number of trains available
- Construction and maintenance work
- Operations and maintenance personnel



Why Is the Train So Slow?

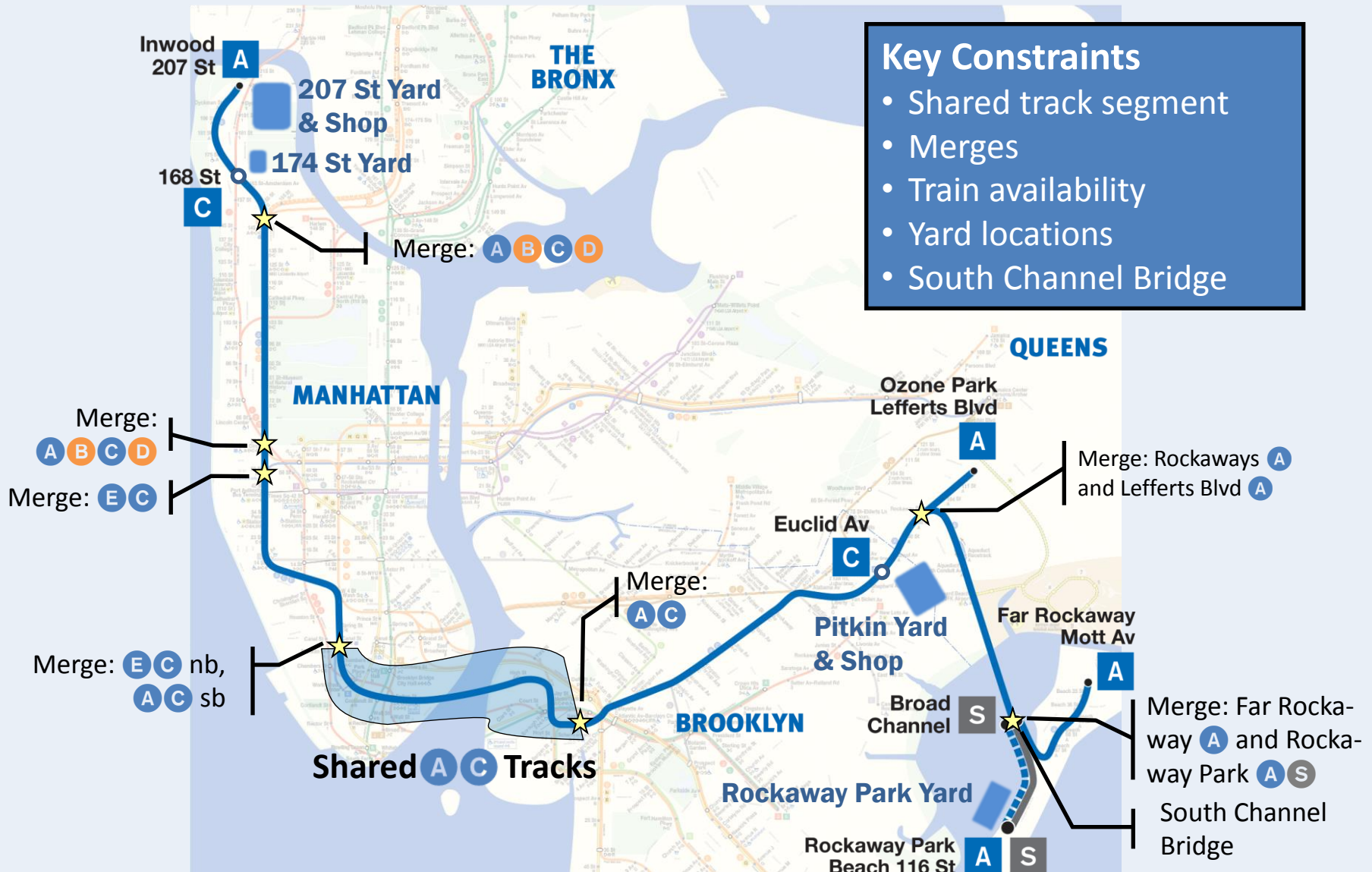
While the average wait for a  train is longer than that for other local lines, it offers a relatively fast ride.

Line	Avg. Speed (mph)	Average Headway (minutes)		
		AM Peak Hour	Weekday Off-Peak	
	15.7	8	10	
Other All-local Lines		16.8	7	8 - 10
		14.9	6	10
		14.3	3	4 - 5
		13.9	6	10
		13.8	3	5 - 6

Construction and maintenance off-peak may slow trains

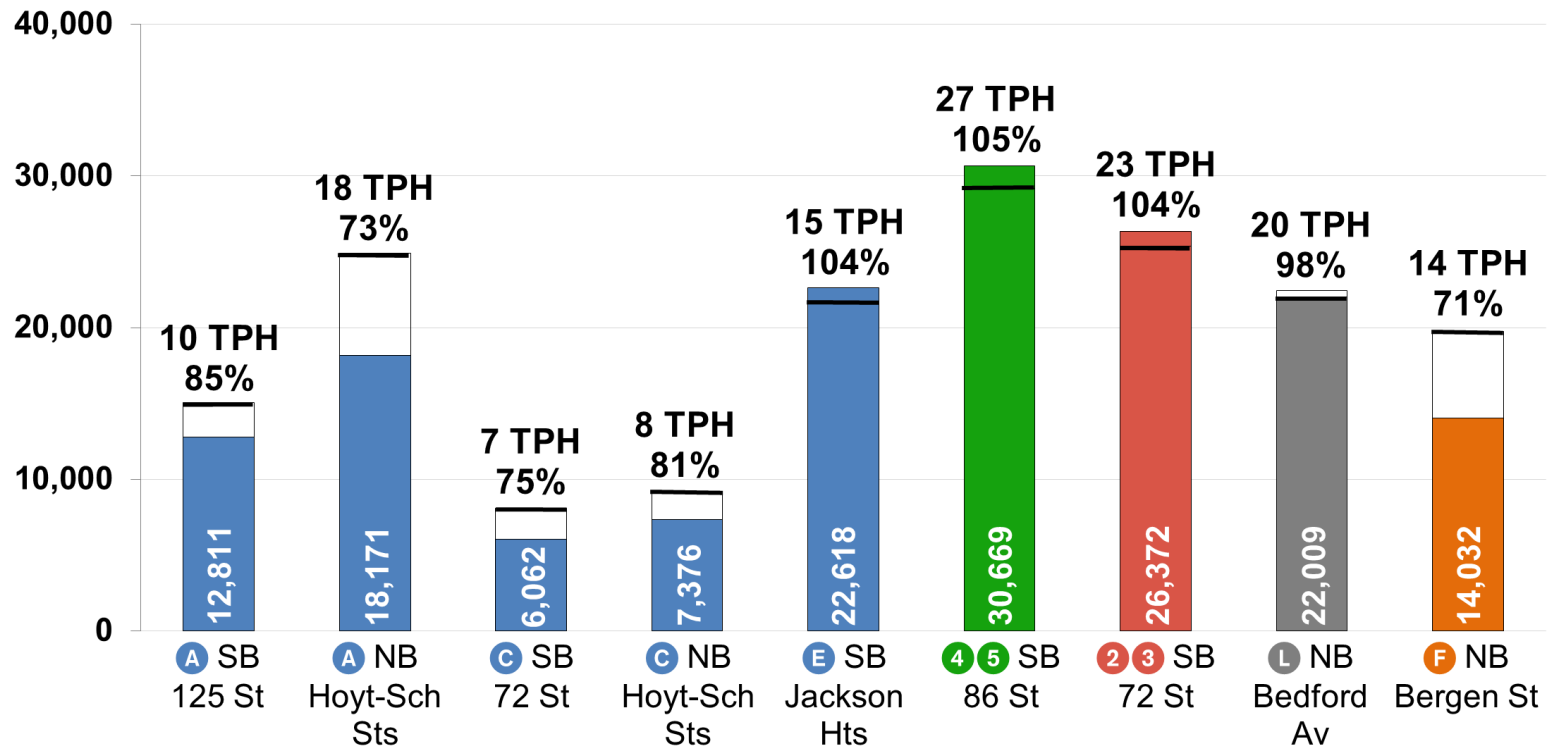
- Worker protection
- Capacity loss due to slower speeds

Service Design and Scheduling



Ridership and Crowding










2014 AM Peak Hour Riders: Frequency vs Guidelines Selected Lines



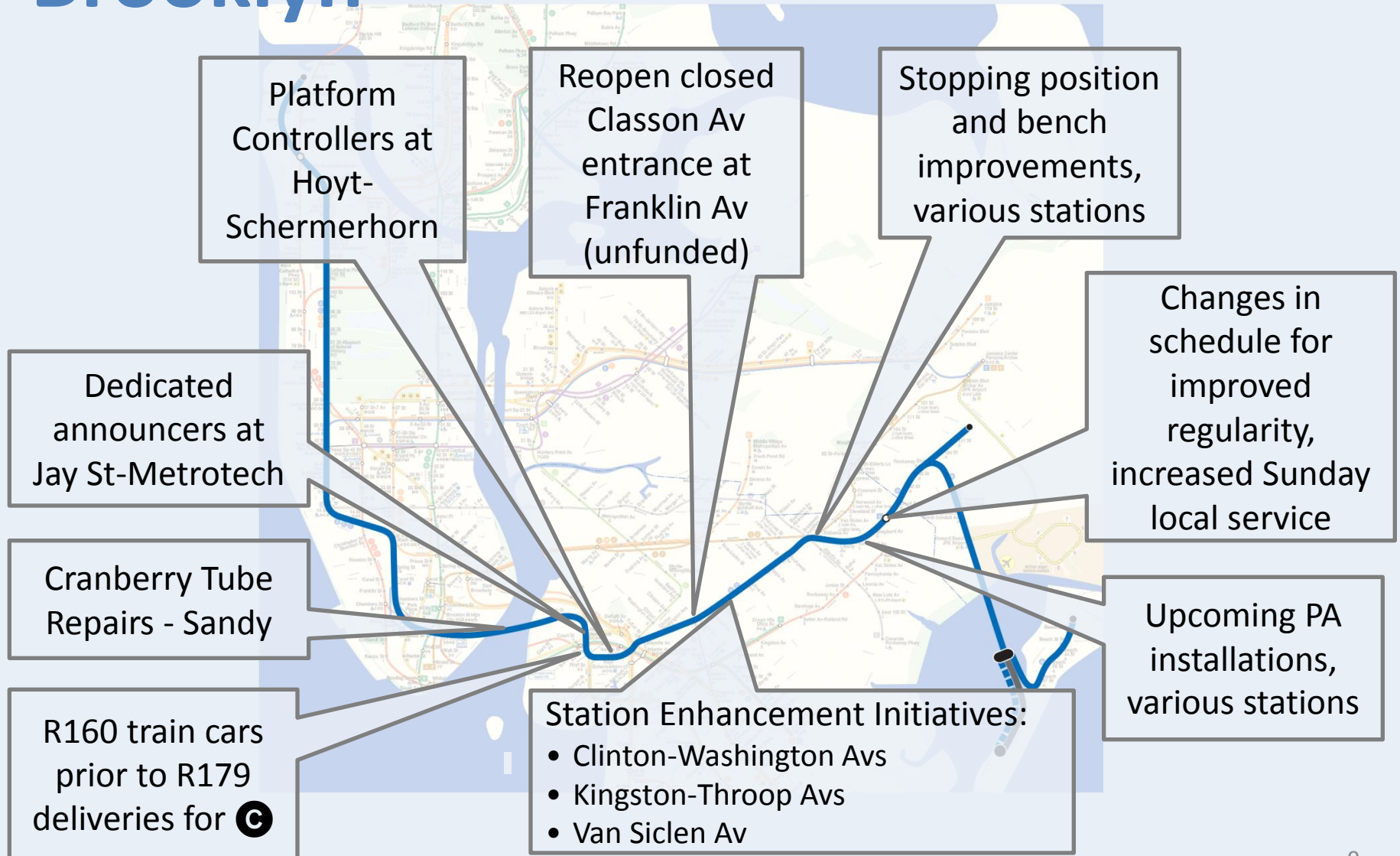
TPH Scheduled Trains Per AM Peak Hour
 % 2014 Peak Hour Riders as Percentage of Maximum Guideline Capacity
 — Maximum Guideline Capacity at Scheduled Frequency

2014 Peak Hour **C** Trains Overcrowded
 Hoyt-Schermerhorn: 18%
 Clinton-Washington Aves: 11%

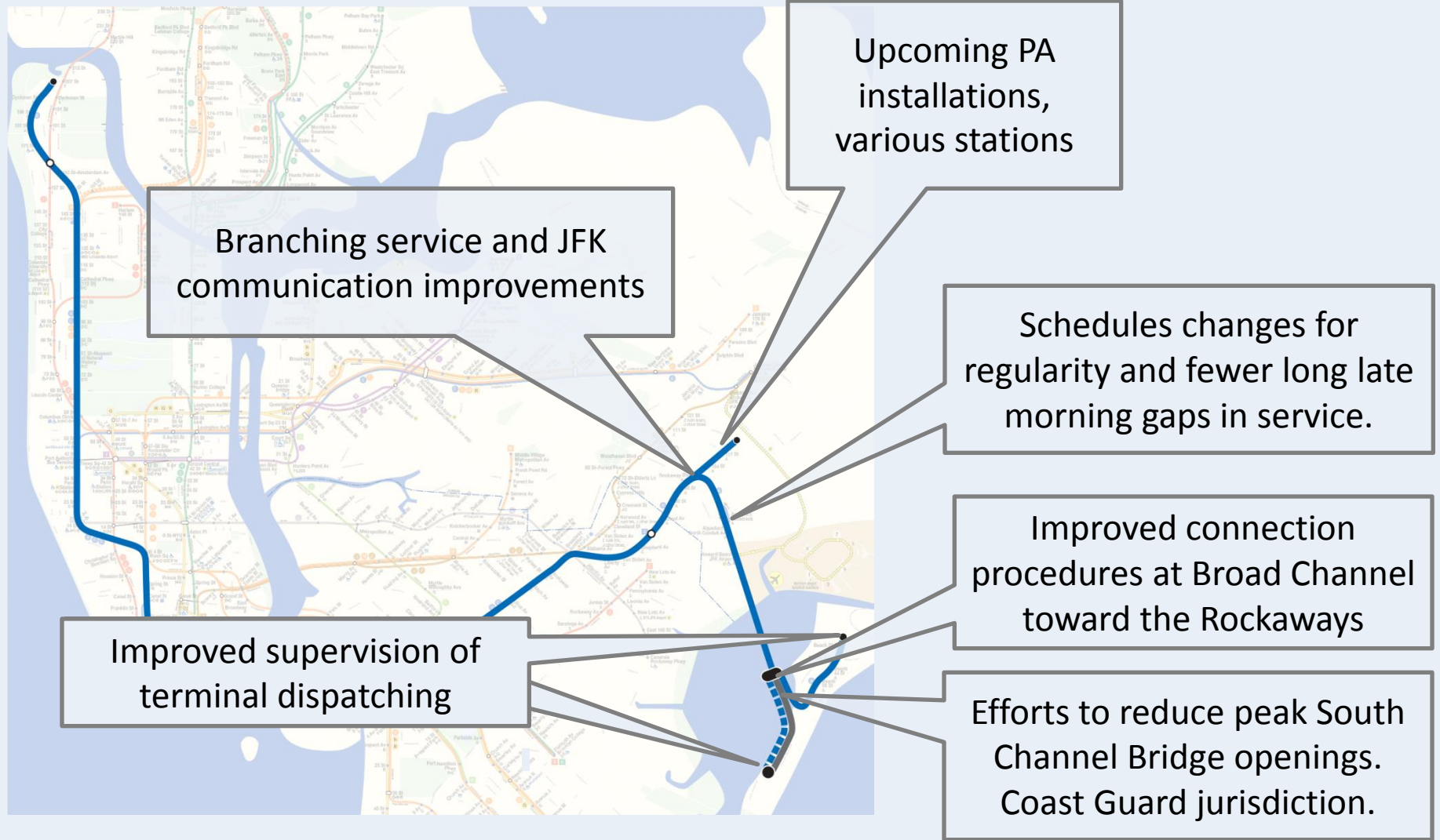
Ridership and Train Length

- All  trains are currently 480' long
- Making  trains as long as  trains (600') would require 44 cars
 - Increase  capacity by 25%
 - Improve cross-platform transfers
- Longer  trains not recommended
 -  ridership is currently within Guidelines
 - Forecasts show steady growth, but not enough to exceed capacity
- Not enough cars available to lengthen  trains
 - Fleet expansion for  not in in Capital Program
 - Capital cost of 44 cars – over \$100 million
- Adjusting  stopping locations to improve convenience
 - 12 of 33 locations completed
 - Also relocating benches to align with stopping locations (completed)

Recommendations & Improvements: Brooklyn



Recommendations & Improvements: Queens



Recommendations & Improvements: Manhattan

