



NJ TRANSIT's Implementation of Positive Train Control

Updated: October 20th, 2020



PTC Project Status

Vehicles

- 99% of vehicles are retrofitted.
- Field modifications are progressing.
- 302 vehicles are ready for Revenue Service Demonstration (P18.5).
- P22.4 to replace P18.5 as the RSD software beginning 10/19.
- 53 out of 76 (70%) Siemens equipped units have received the new 11.4 software.

Wayside

- All Wayside Interface Units and Radio Towers are fully installed.
- Transponder installation is approximately 99% complete.

Interoperability

- 3 out of 5 boundaries ready for vehicle testing.

Training

- ASES II training requirements have been satisfied. Ongoing training continues as required per the FRA regulations.



SYSTEM
MAP
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RAIL

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LEGEND

- Transfer Station
- Station
- Light Rail
- Accessible Station
- Ferry Connection
- Transfer required to New York

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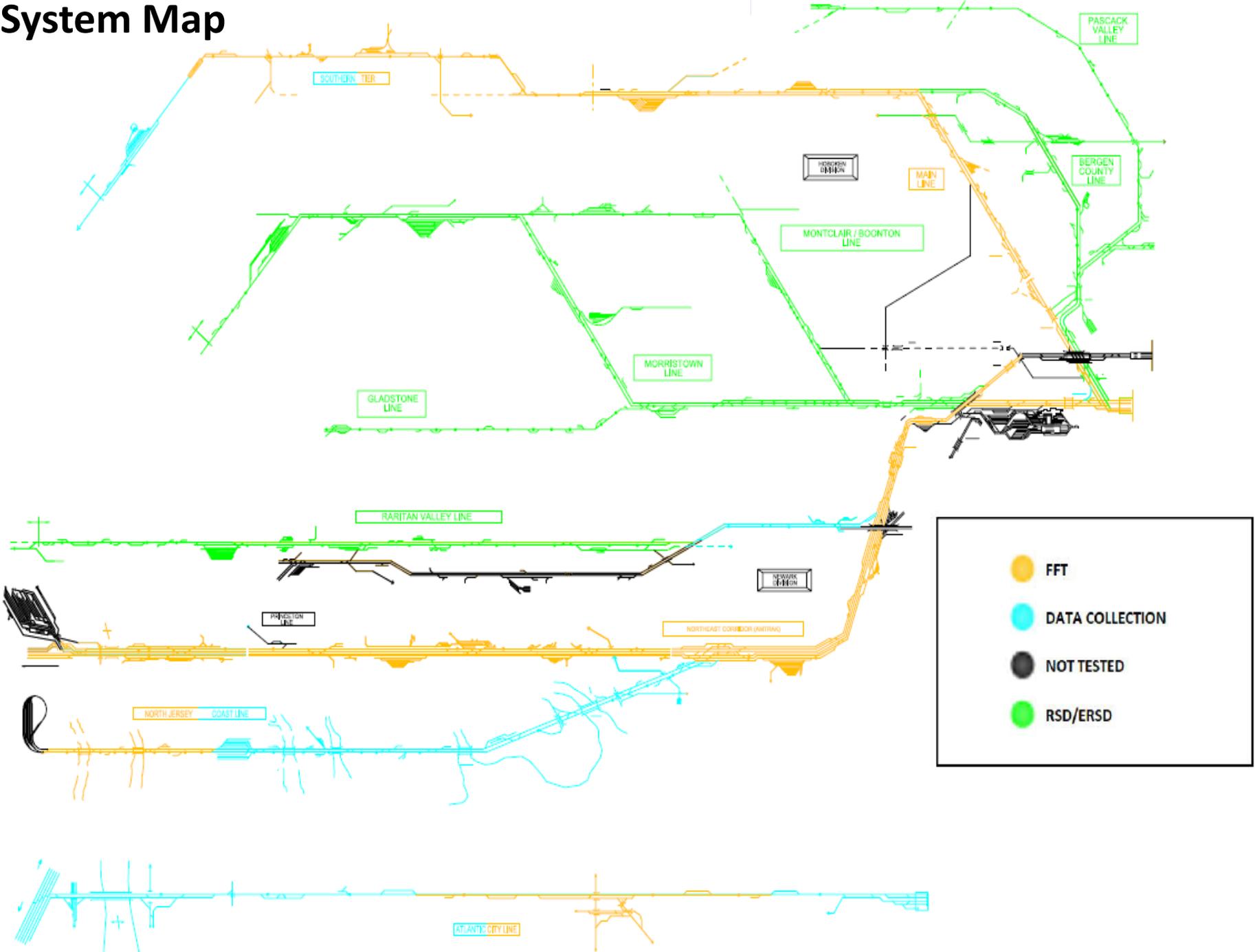
May 2016

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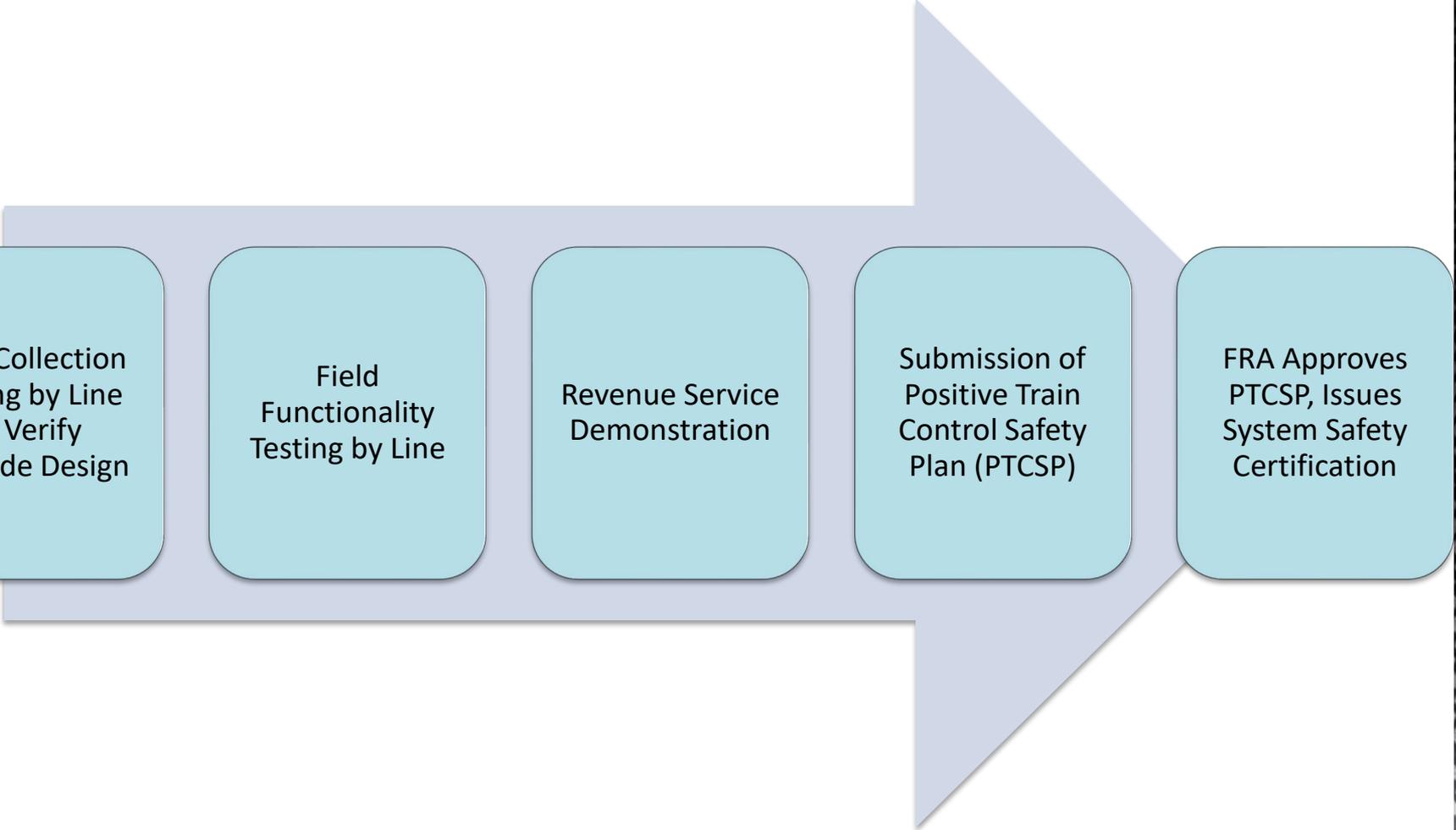
Testing Status By Line Oct. 20th, 2020

Line	Status
Atlantic City (1)	FFT In-Progress
Bergen County (2)	ERSD In-Progress I-ETMS Testing In-Progress
Gladstone (4)	ERSD In-Progress
Main (5)	ERSD In-Progress I-ETMS Testing In-Progress
Montclair-Boonton (6)	ERSD In-Progress
Morristown (3,7)	ERSD In-Progress I-ETMS Testing In-Progress
Northeast Corridor (8)	Shakedown & FFT Testing In-Progress
North Jersey Coast (9)	FFT In-Progress
Pascack Valley (10)	ERSD In-Progress I-ETMS Testing In-Progress
Raritan Valley (11)	ERSD In-Progress I-ETMS Testing In-Progress
Sports (12)	FFT In-Progress

System Map



PTC Implementation Path



Data Collection
Testing by Line
to Verify
Wayside Design

Field
Functionality
Testing by Line

Revenue Service
Demonstration

Submission of
Positive Train
Control Safety
Plan (PTCSP)

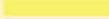
FRA Approves
PTCSP, Issues
System Safety
Certification

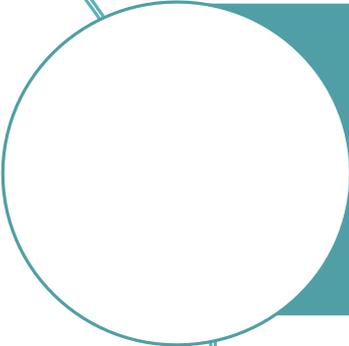
NJ Transit's Path Forward

Item No.	Milestone	Status
1	Complete Installation on all Vehicles	99% complete
2	Complete Transponder Installation	99% complete
3	Complete Employee PTC Training	97% complete
4	Continue Field Testing to Demonstrate System Reliability/Repeatability	4 lines remain in Field Testing
5	Demonstrate the System in Extended Revenue Service	8 of 12 lines are in ERSD
6	Submit PTC Safety Plan (PTCSP) to FRA	Submitted June 30, 2020
7	Complete Interoperability and Tenant Railroad Testing	To be completed in Q4 2020
8	Full System Implementation by December 31, 2020	Pending FRA review and approval of the PTCSP

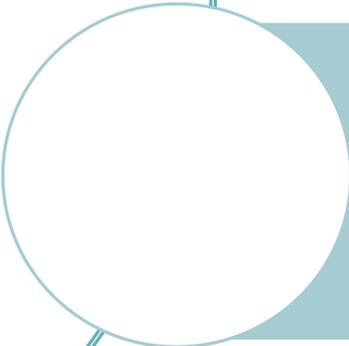
PROGRAM
Update as of 9/30/20

ACTIVITY	TIME FRAME	2020		
		Oct	Nov	Dec
<u>Summary Level</u>	<u>Start</u>	<u>Finish</u>		
Submit PTC Safety Plan (PTCSP)	2020 Q3	2020 Q4		
Submit Initial RSD Application and Amendments	2020 Q1	2020 Q4		
FRA Approval for RSD (Various Segments)	2020 Q1	2020 Q4		
Revenue Service Demonstration (RSD) (ASES II)	2020 Q1	2020 Q4		
Revenue Service Demonstration (RSD) (ACSES II)	2020 Q4	2020 Q4		
Fully PTC Operational	2020 Q4	2020 Q4		
<u>ASES II Testing and Commissioning</u>				
Montclair/Boonton Line	2019 Q2	2020 Q4		
Gladstone Line	2019 Q2	2020 Q4		
Raritan Valley Line	2019 Q4	2020 Q4		
Main Line	2019 Q2	2020 Q4		
Bergen County Line	2019 Q2	2020 Q4		
Lehigh Line (Conrail)	2020 Q1	2020 Q4		
Sport Line	2019 Q2	2020 Q4		
Hudson Line	2019 Q2	2020 Q4		
North Jersey Coast Line	2019 Q4	2020 Q4		
Pascack Valley Line	2019 Q2	2020 Q4		
Atlantic City Line	2019 Q2	2020 Q4		
NEC Boundaries (Amtrak)	2020 Q3	2020 Q4		
<u>MNR (Southern Tier) Testing and Commissioning</u>				
Phase 1: Suffern - Hudson	2020 Q2	2020 Q4		
Phase 2: Hudson - OV	2020 Q3	2020 Q4		
Phase 3: OV - WX	2020 Q3	2020 Q4		
<u>ACSES II (On Board) Testing and Commissioning</u>				
Morristown Line	2019 Q3	2020 Q4		
Montclair/Boonton Line	2020 Q2	2020 Q4		
<u>I-ETMS</u>				
Main Line	2019 Q1	2020 Q4		
Morristown Line	2019 Q1	2020 Q4		
Sport Line	2019 Q1	2020 Q4		
Pascack Valley Line	2019 Q1	2020 Q4		
Raritan Valley Line	2019 Q1	2020 Q4		
Bergen County Line	2019 Q1	2020 Q4		
MNR - All Phases	2020 Q1	2020 Q4		

Legend			
SITs, PATs & Test Reports		I-ETMS Design & Wayside Installation	
Field Functionality Testing		I-ETMS Cutover & Related Testing (incl. V&V)	
Revenue Service Demonstration		I-ETMS Site Acceptance & RSD Ready	
Other Summary Activities			



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