



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**
njtransit.com

RAIL



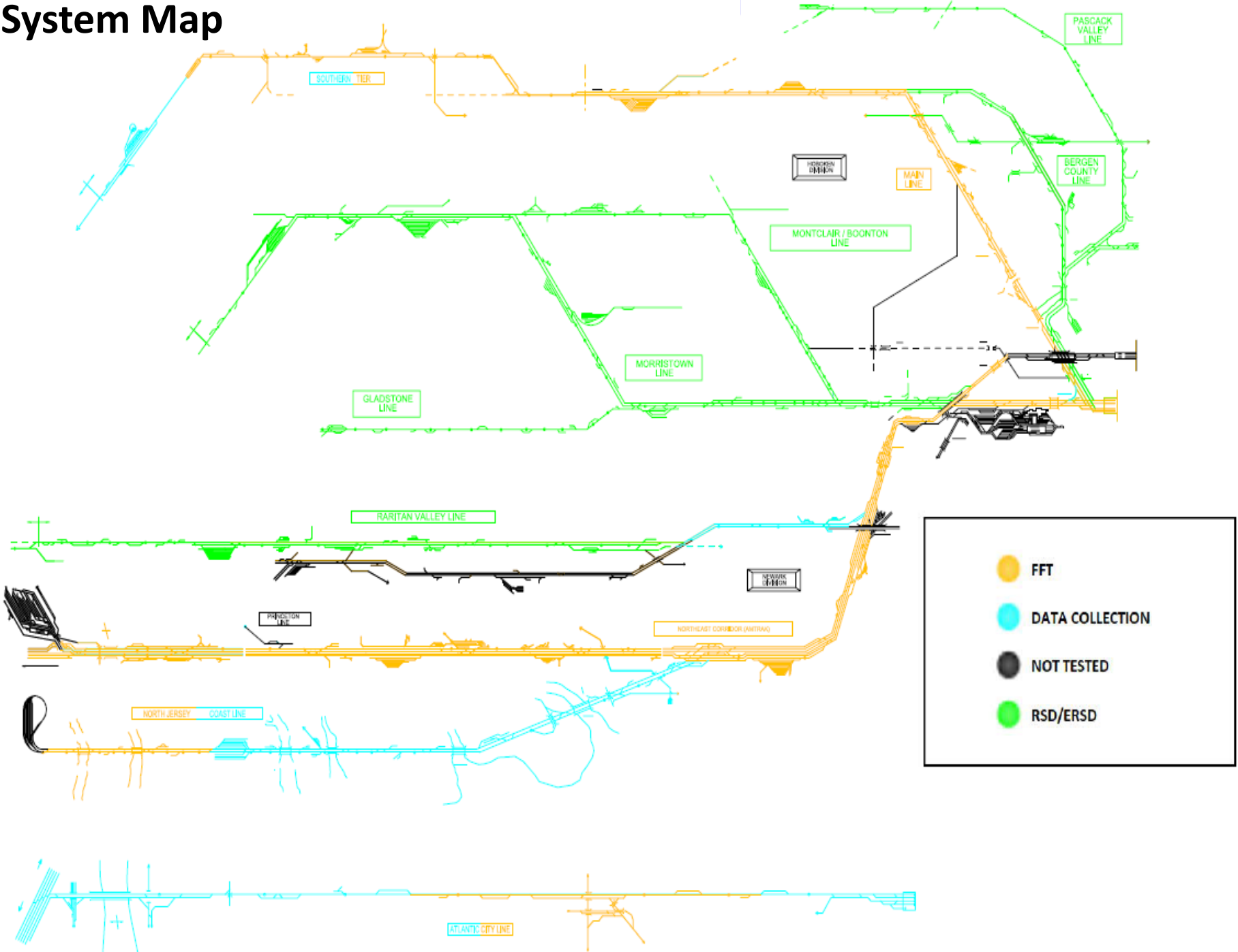
NJ TRANSIT
The Way To Go.



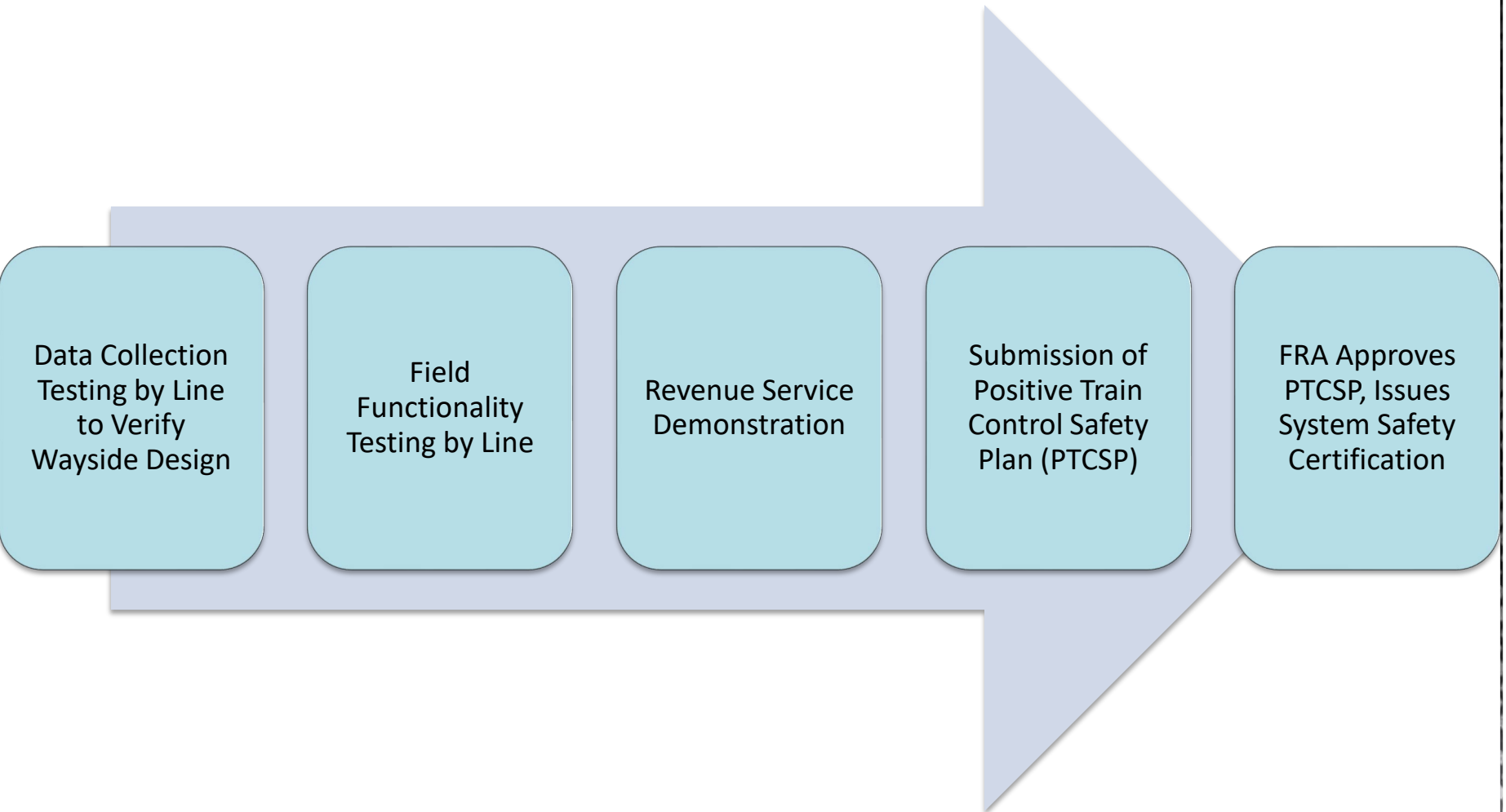
Testing Status By Line Oct. 20th, 2020

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



The diagram illustrates the PTC Implementation Path as a sequence of five steps, each contained within a light blue rounded rectangle. These rectangles are arranged horizontally and are superimposed on a large, light blue arrow that points from left to right. The steps are: 1. Data Collection Testing by Line to Verify Wayside Design, 2. Field Functionality Testing by Line, 3. Revenue Service Demonstration, 4. Submission of Positive Train Control Safety Plan (PTCSP), and 5. FRA Approves PTCSP, Issues System Safety Certification.

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		
			Q4		
			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
Field Functionality Testing
Revenue Service Demonstration
Other Summary Activities



I-ETMS Design & Wayside Installation
I-ETMS Cutover & Related Testing (incl. V&V)
I-ETMS Site Acceptance & RSD Ready





For more information
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www.njtransit.com/ptc