



**THE PORT AUTHORITY  
OF NY & NJ**

# *Modernization Program Update*



April 29, 2010

# ***PATH Integrated Railcar and Signal System Replacement Program***

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Program elements include:

- 340 New Railcars
- Maintenance Facility Renovations/Updates
- Signal System Replacement Program



# New PATH Railcar Features

## Include:

- AC propulsion
- ADA compliance
- Advanced diagnostics capability
- Automated on-board train announcements
- LED designation signs
- On-board video recording
- Integrated design to accept ATC in the future



As of April 23, 2010, of the 340 cars ordered:

- 119 cars have been delivered
- 102 accepted
- 17 undergoing acceptance testing

Approximately 91 additional cars are expected to be delivered in 2010, and the remaining cars are scheduled for final delivery in 2011.



# PATH Infotainment System

## Carborne Passenger Video Infotainment System



- 4 sets in each car; 2 monitors per set
- Daily content updates via a WiFi infrastructure
- Bottom of display has a crawl with PATH content

## In-Station PATHvision



- 236 monitors in 13 Stations
- Two content updates per day
- Bottom of display has a crawl with PATH content

# PATH Signal System Replacement Project

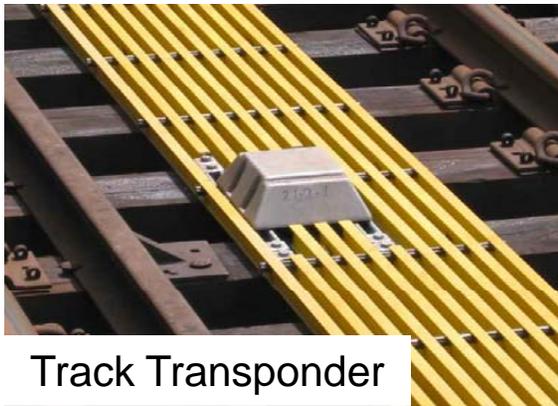
## Goals

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Replace antiquated fixed block signal system with a state-of-the-art Automatic Train Control (ATC) System to:



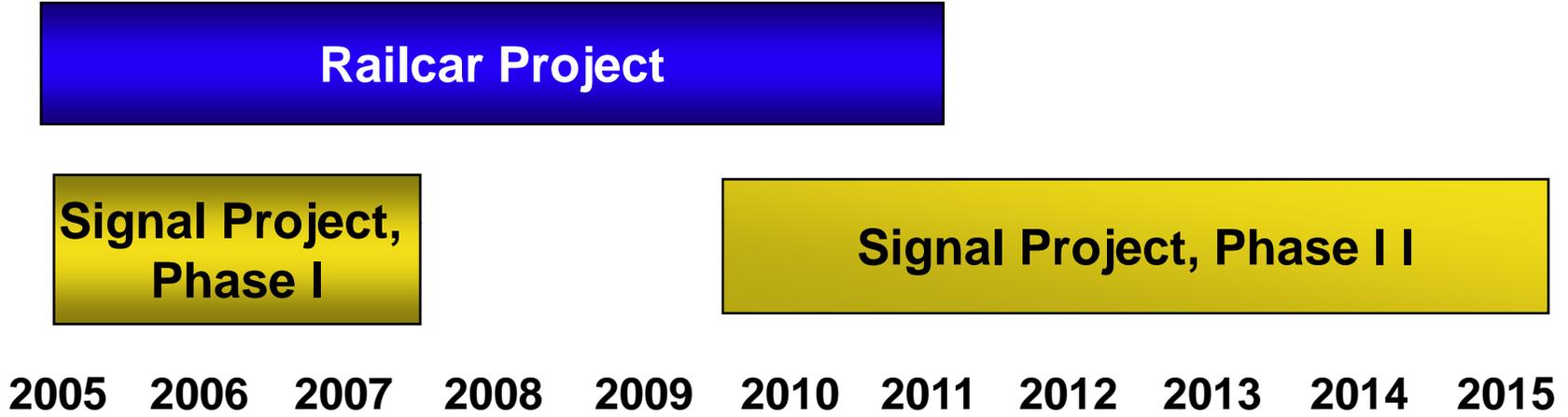
Engineer's Control Panel



Track Transponder

- Ensure long-term viability, reliability, and avoid obsolescence
- Enhance safety through continuous overspeed protection
- Meet FRA Positive Train Control (PTC) legislation
- Provide real-time train location information and smoother ride
- Reduce headways, increase throughput and system capacity by up to 20%

# Overlay of PATH Railcar and Signal Replacement Project Schedules

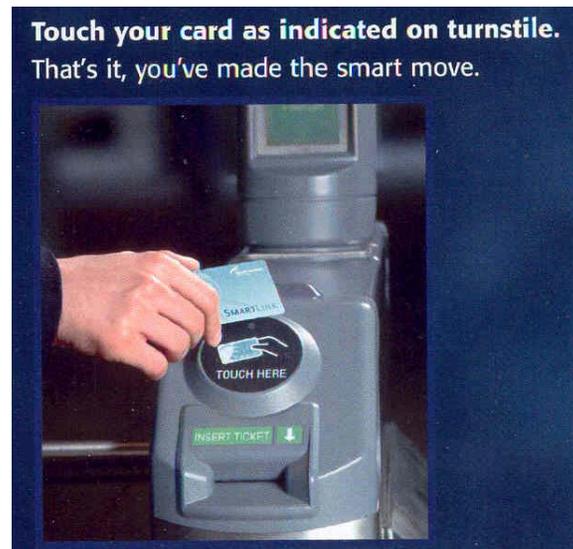
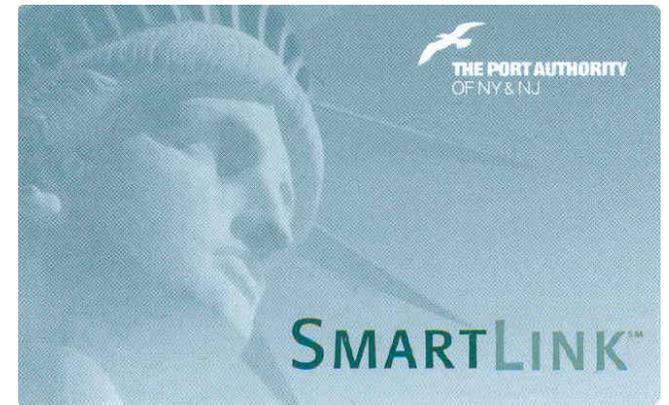


# *PATH Regional Fare Collection System Improvements*

PATH Automated Fare Collection System was initially installed in 2003.

Fare media currently accepted is:

- PATH QuickCard
- NYCT Pay-Per-Ride MetroCard
- PATH SmartLink Card

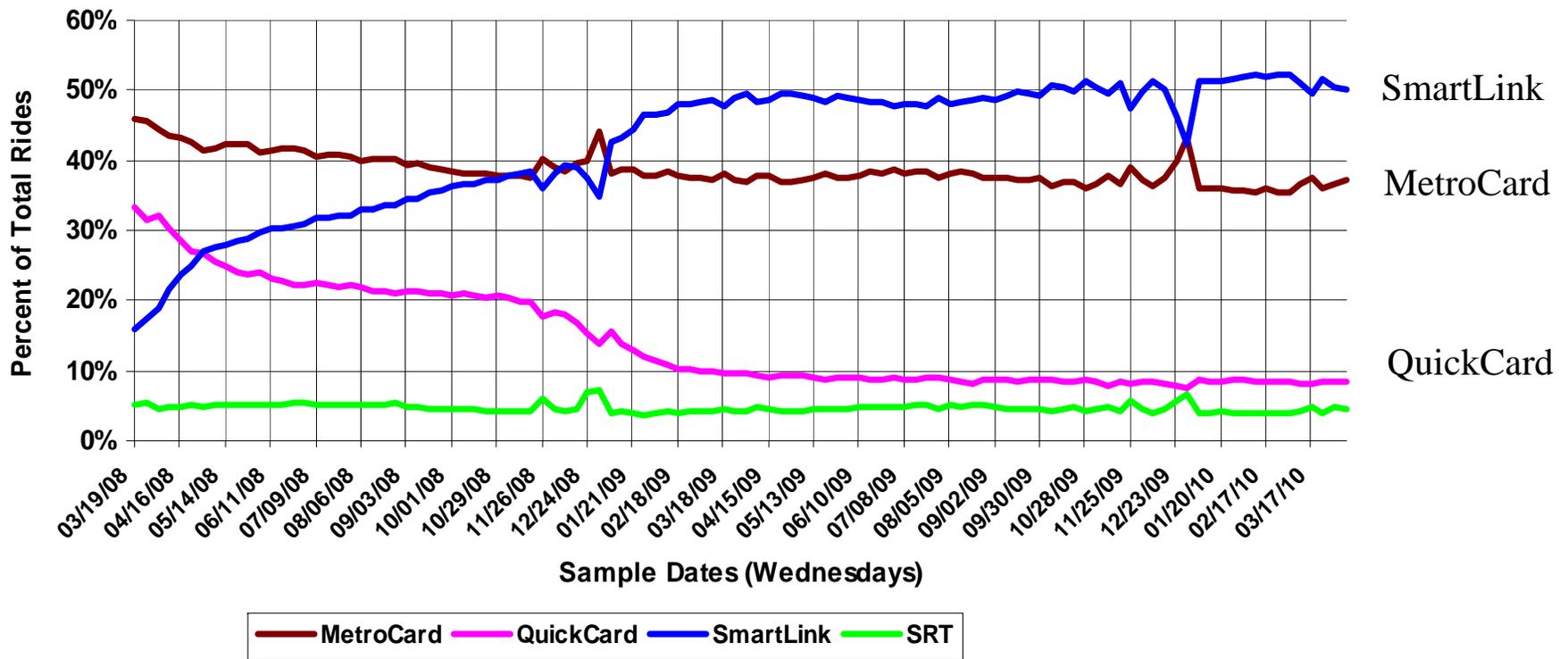


# PATH SmartLink Card Usage Improvements

Fare media trend from MetroCards and QuickCards to the contactless SmartLink Cards

(SmartLink Card over 50% market share)

PATH Fare Media Trend Analysis



# *PATH Regional Fare Collection System Improvements*

Some Key initiatives include:

- Introducing a “limited use” SmartLink Card in 2010 and phase out the QuickCard
- Adding additional dispensing machines to enhance customer service
- Working with New Jersey Transit and New York City Transit on a contactless bank card demonstration pilot



# *PATH Station Modernization Program*

Program Includes:

- Station Seating
- Mural Program
- Public Address System
- PATHvision
- New Station Way Finding Signage



# Moving People and PATH into the 21<sup>st</sup> Century

