# ENABLING TRANSIT MOBILITY THROUGH ITS

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Paul Maye October 28<sup>th</sup>, 2021



# NYSDOT Lower Hudson Transit Link

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Department of Transportation

Owner: NYSDOT / Operator: Transdev USDOT 505166 / NYSDOT 38414

ARUP

**Project Overview** 

#### Program Procurement Partners

### Lower Hudson Transit Link/I-287 ICM

- Lead Agency: NYSDOT
- Key Partners: NYSTA, USDOT, & Local Municipalities
- Transit Stakeholders: Hudson Link, Bee Line, Transportation of Rockland (TOR), MTA-Metro North

Unique multi-modal integration involving integration of new bus operations into ICM system





### **Integrated Operations**

- Communications/ Information Sharing
- Transit Operations ICMS Integration
- Decision Support System (DSS)

**Rapid Bus Service** 

• 4 new routes, 22 bus shelter locations

# **Ramp Metering**

• 13 ramps on I-287

# Traffic signal upgrades

- 29 Adaptive Signal Control Locations
- 102 TSP Locations
- 122 total traffic signal upgrade locations
- 13 Bus queue jumps

### **Enhanced Situational Awareness**

- 72 Closed Circuit TV Locations (30 New, 39 existing being integrated)
- 24 Bus Shelter CCTV
- 275 Traffic Detectors (117 new, 158 existing being integrated)

### Enhanced Provision of Traveler Information

135 VMS Locations (32 New, 103 existing being integrated)

# Real Time Bus Information

### **Enhanced Safety**

3 miles of pedestrian safety and ADA improvements





# NYSDOT Lower Hudson Transit Link

Bus and Shelter Technology

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#### Inside View of the Buses

Behind White Line

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**APC Device** 

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**On-Board WiFi** 

TSP Transceiver



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### Inside View of the Buses Continued

Please Do Not Stand In Door Area While Bus Is In Motion.

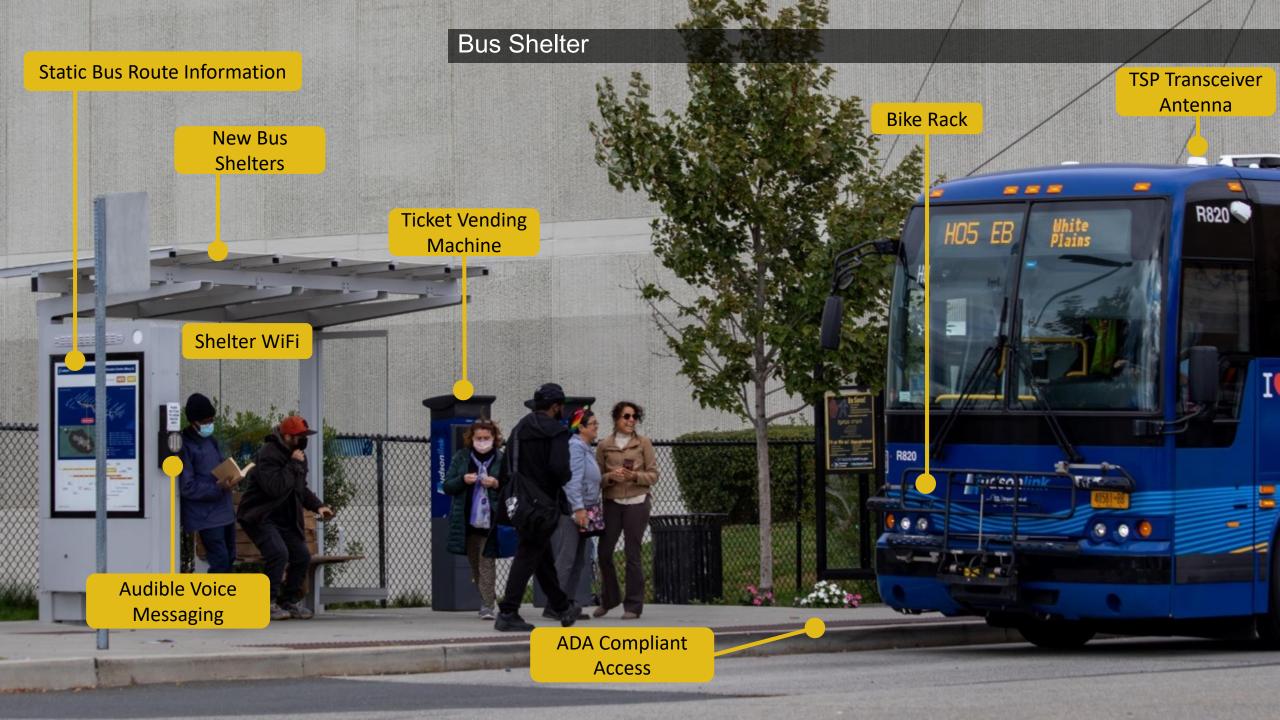
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# NYSDOT Lower Hudson Transit Link

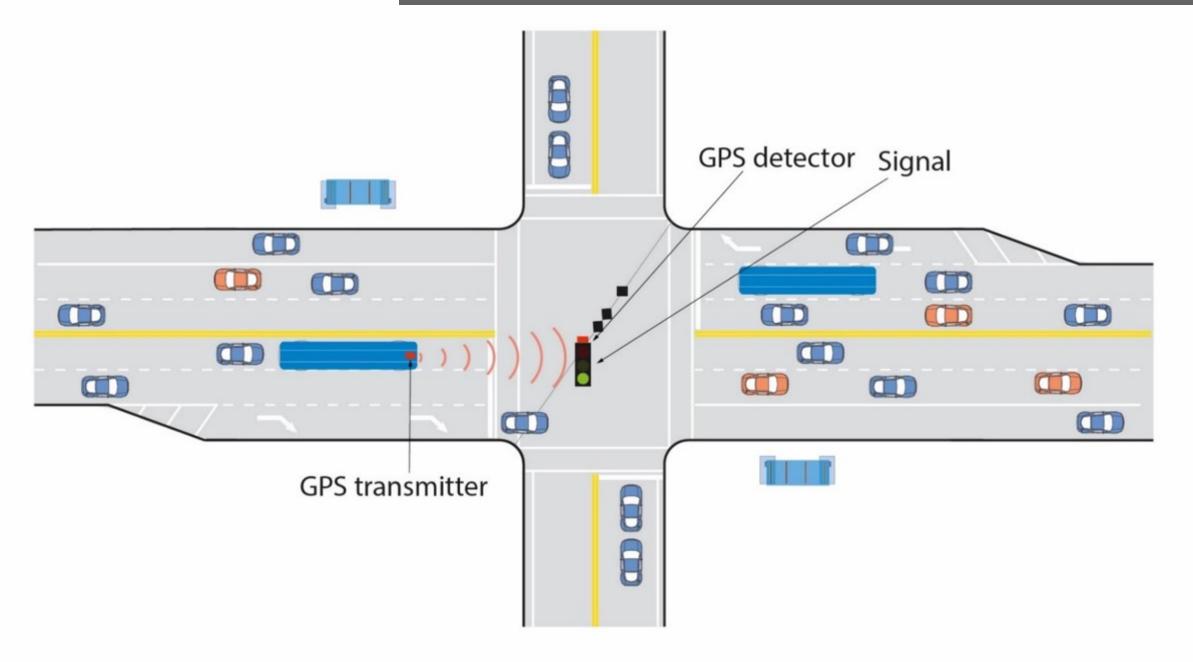
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TSP and Queue Jump Technology

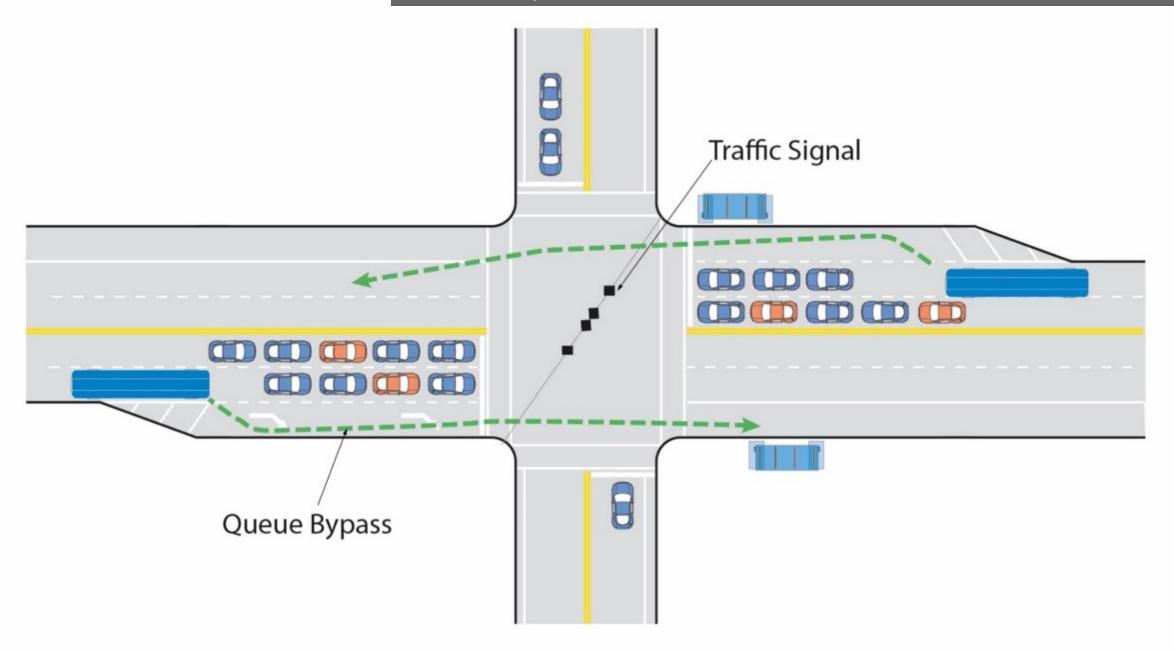
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### Transit Signal Priority (TSP)



### Queue Jump Lane Activation



### Hudson Link Bus Queue Jump Activation

Queue Jump Lane

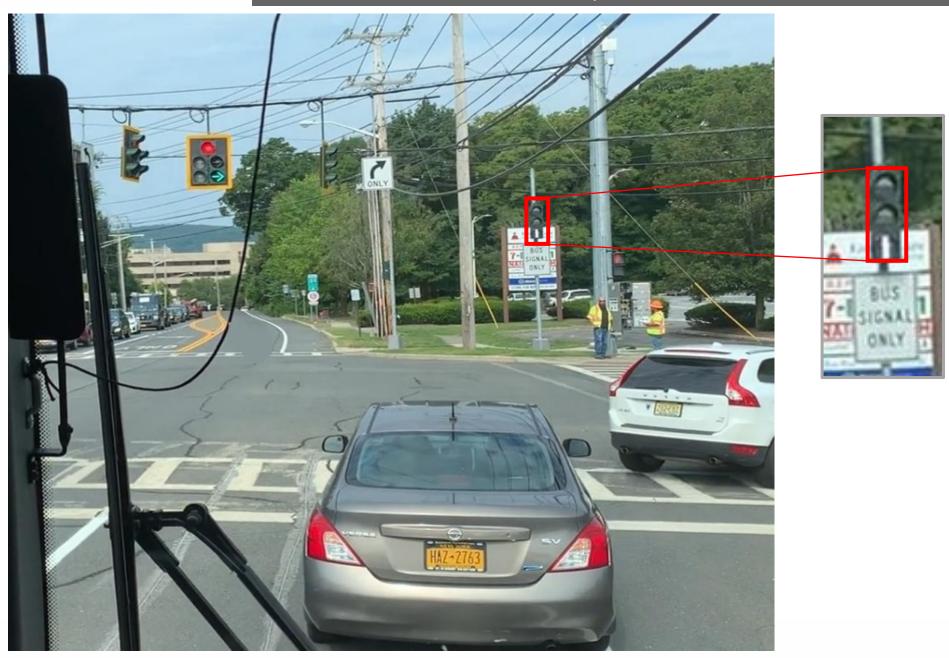
**TSP** Antenna

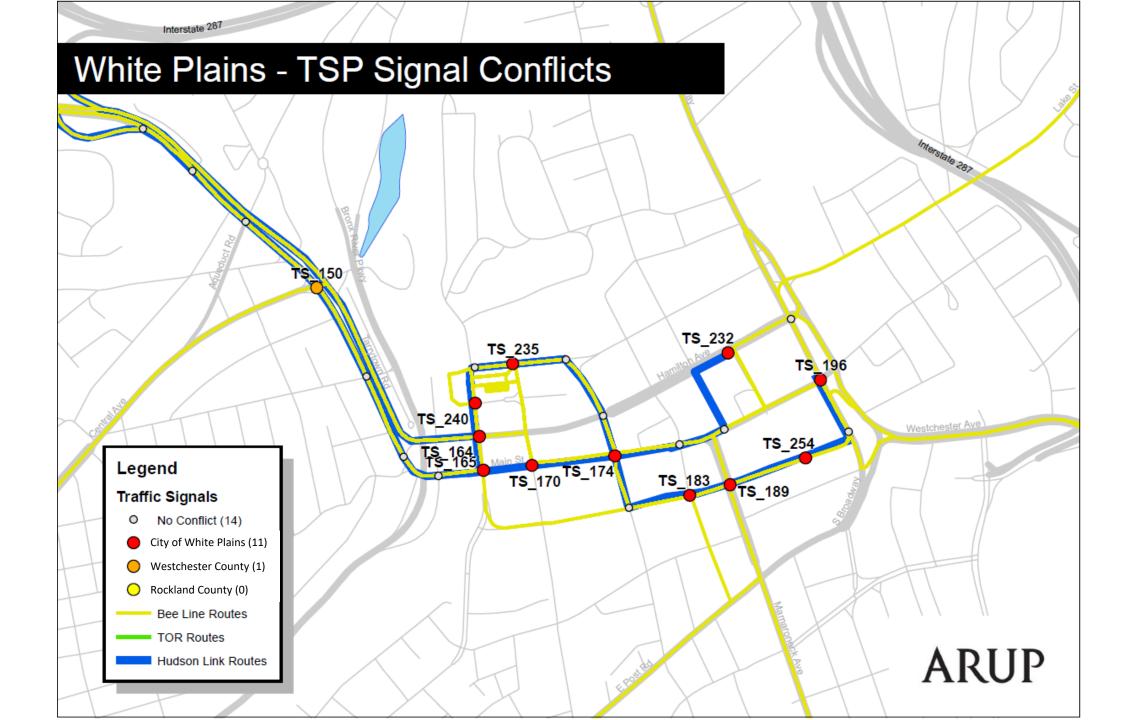
**TSP Bus Signal** 

Hudson Link Bus

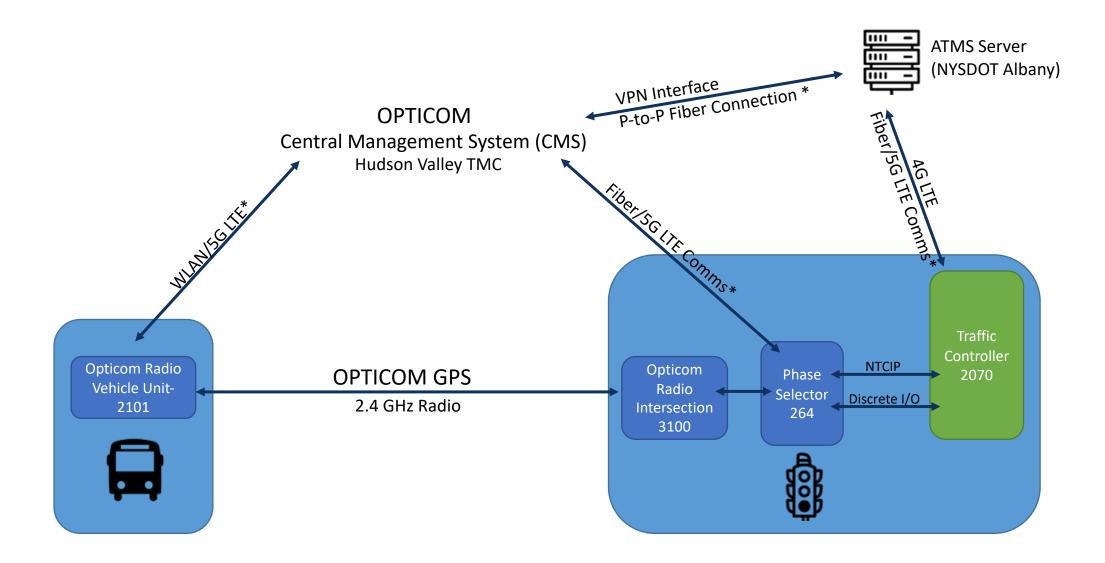
> Queue Jump Lane

### Hudson Link Bus Queue Jump Activation





### LHTL TSP System



\*Future System Connection

#### LHTL ICM System Context

