



New York City Sub-regional ITS Architecture 2018 Update



NYMTC Presentation
January 30, 2019

New York City Sub-regional ITS Architecture (NYCSRA) – Origins

- Conforms with FHWA Rule 940/FTA Policy on Regional ITS Architectures
- First created in 2005, updated in 2013
 - Four Partner Agencies: New York State Department of Transportation, New York City Department of Transportation, Port Authority of New York and New Jersey, and Metropolitan Transportation Authority
- 2018 update
 - Current and planned ITS projects within New York City
 - Latest version of the National ITS Architecture (now called Architecture Reference for Cooperative and Intelligent Transportation (ARC-IT) version 8.2.

NYCSRA 2018 Update – Project Tasks

1. Project Plan and Kickoff Meeting (May 11, 2018)
2. Update April 2013 NYCSRA to ARC-IT V8.1
3. Conduct Key Stakeholder Area Meetings/Interviews
 - NYCDOT
 - PANYNJ
 - MTA Headquarters
 - MTA Bridges & Tunnels
 - NYMTC
 - NYSDOT
4. Finalize NYCSRA to Draft (November 20, 2018)
5. Update NYCSRA to Final (December 21, 2018)

NYCSRA 2018 Update – Project Website

- NYCSRA 2018 update hosted on: NYMTC web site
 - <https://www.nymtc.org/Regional-Planning-Activities/Mobility-and-Safety-Planning/TSMAO>
 - And go to the Key Link area and click on “New York Sub-regional ITS Architecture”

NYCSRA 2018 Update – Project Website

- Projects Link
 - Contains listing of existing and planned ITS projects
 - Can be sorted by Stakeholder
 - Only ITS projects with regional impacts for PANYNJ and MTA Bridges & Tunnels

New York City Sub-regional ITS Architecture

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 **PROJECTS** [Feedback](#)  [\(Printable Version\)](#)

The ITS Architecture provides a starting point for project definition. It provides an overall framework that shows how anticipated projects will integrate with each other and with existing systems. This page lists all the ITS projects that have been mapped to the regional ITS architecture.

Select a project from the box below to jump to that ITS projects.

Select ▼

Project Name	Project Description	Service Packages
MTA Bridges and Tunnels AW35	Authority Wide Weather Recording Systems	WX01 - Weather Data Collection MTA Bridges and Tunnels
MTA Bridges and Tunnels AW36	Agency Wide Traffic Camera Upgrade (Analog to IP)	TM01 - Infrastructure-Based Traffic Surveillance MTA Bridges and Tunnels
MTA Bridges and Tunnels AW52A	TRANSMIT System Upgrades	TM02 - Vehicle-Based Traffic Surveillance TRANSMIT
MTA Bridges and Tunnels AW52B	Queue Warning System	VS08 - Queue Warning MTA Bridges and Tunnels
MTA Bridges and Tunnels AW66	New Operations Command Center and Systems of System (which includes ATMS and Safety Systems).	TM07 - Regional Traffic Management MTA Bridges and Tunnels

NYCSRA 2018 Update – Project Website

- Planning Link
 - Added support (links) for the NYMTC Plan 2045 – Regional Transportation Plan
- Links between RTP Goals and Actions with ITS Projects and Service Packages

New York City Sub-regional ITS Architecture

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▶ PLANNING

Feedback

Source Document: NYMTC Plan 2045 - Regional Transportation Plan

Goal	Action	Projects	Service Packages
1- Enhance the Regional Environment		MTA LIRR East Side Access	
		MTA NYC Transit Second Avenue Subway	
		NYC DOT Transit Signal Prioritization	
	1- Evaluate and enhance demand management programs		
	2- Evaluate and enhance mobile source emissions reduction programs		
	3- Inventory greenhouse gas emissions		
	4- Implement transit improvements, enhancements in the FFYs 2017-2021 TIP		
	5- Implement mobility, traffic improvement projects in the FFYs 2017-2021 TIP		
	6- Implement programmed strategic improvements and initiatives	MTA LIRR East Side Access MTA NYC Transit Second Avenue Subway	PT01-01: Transit Vehicle Tracking MTA NYC Transit Bus and Subway

Using the ITS Architecture Workshop

- February 5, 2019, 9:30 AM – 12:30 PM, NYMTC Offices
 - Module 1 – Introductions
 - Module 2 – Overview of FHWA Rule 940 and FTA Policy on Systems Engineering Analysis
 - Module 3 - Overview and Examples of Key Elements of a Project Systems Engineering Analysis Report
 - Module 4 - Case Study New York City Transit Signal Priority (TSP)
 - Module 5 – Discussion on Emerging Initiatives Using ITS Architectures (Regional Planning Documents, Performance-based Management, and TSM&O)