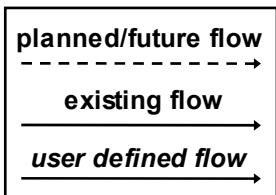
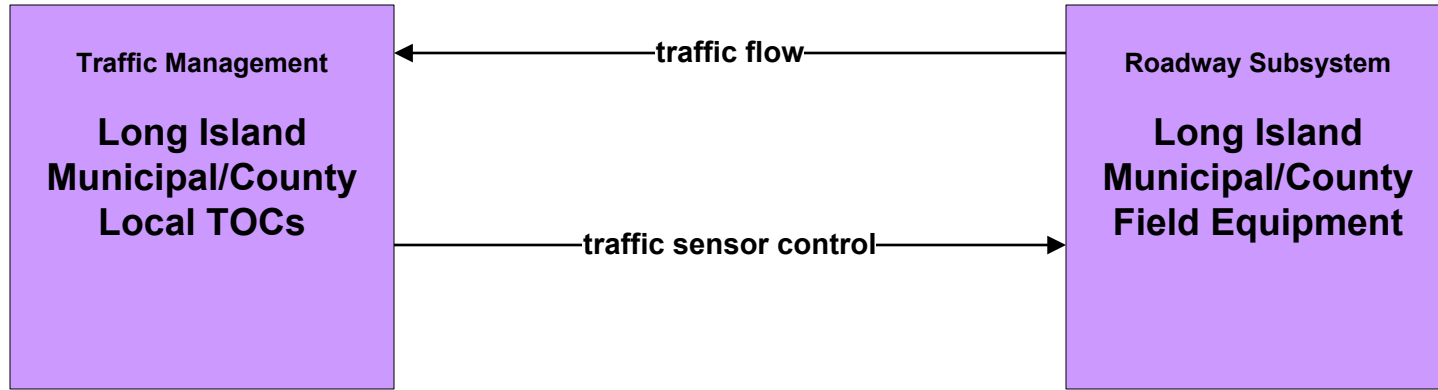


NYMTC ITS Integration Strategy

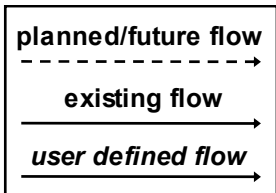
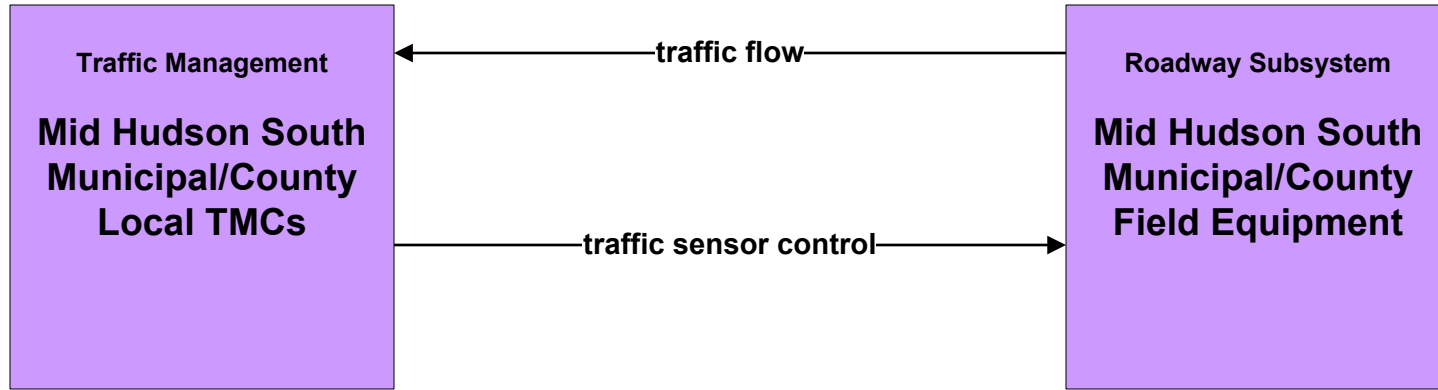
Customized Market Package Diagrams

**Advanced Traffic Management Systems
(ATMS)**

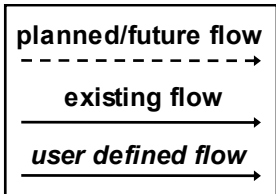
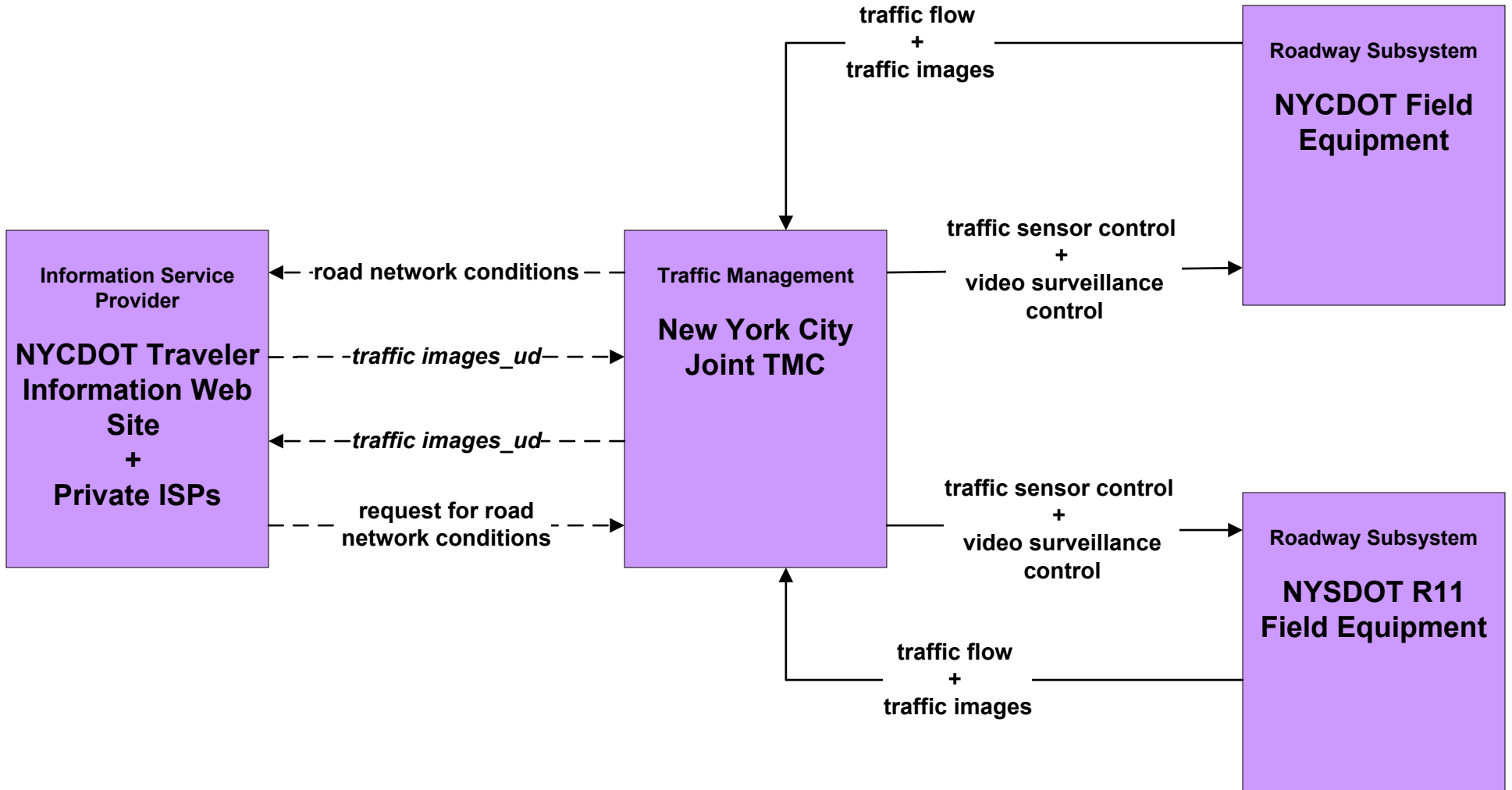
**ATMS01 - Network Surveillance
Long Island Municipal/County TMCs**



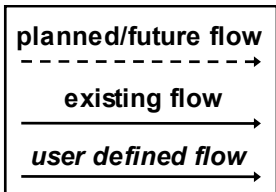
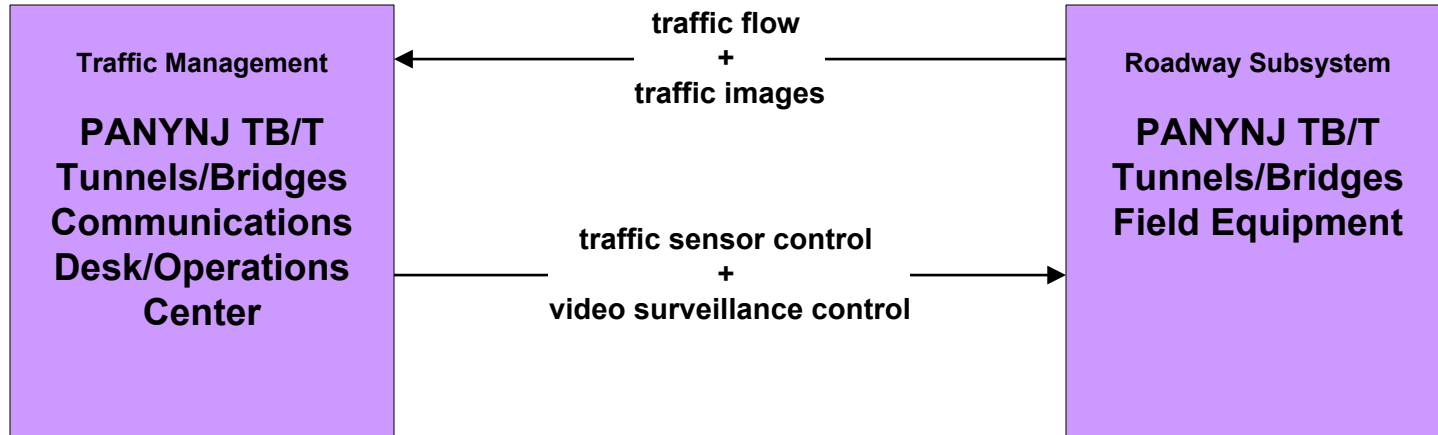
**ATMS01 - Network Surveillance
Mid Hudson South TMCs**



ATMS01 - Network Surveillance New York City Joint TMC



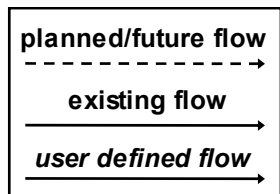
**ATMS01 - Network Surveillance
PANYNJ Tunnels/Bridges**



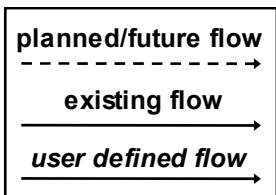
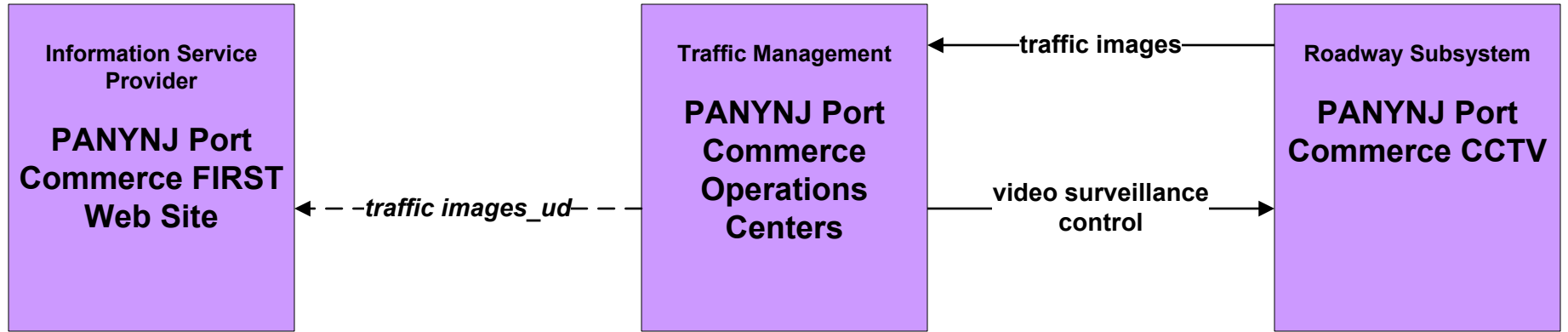
ATMS01 - Network Surveillance PANYNJ Airports



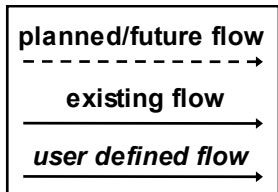
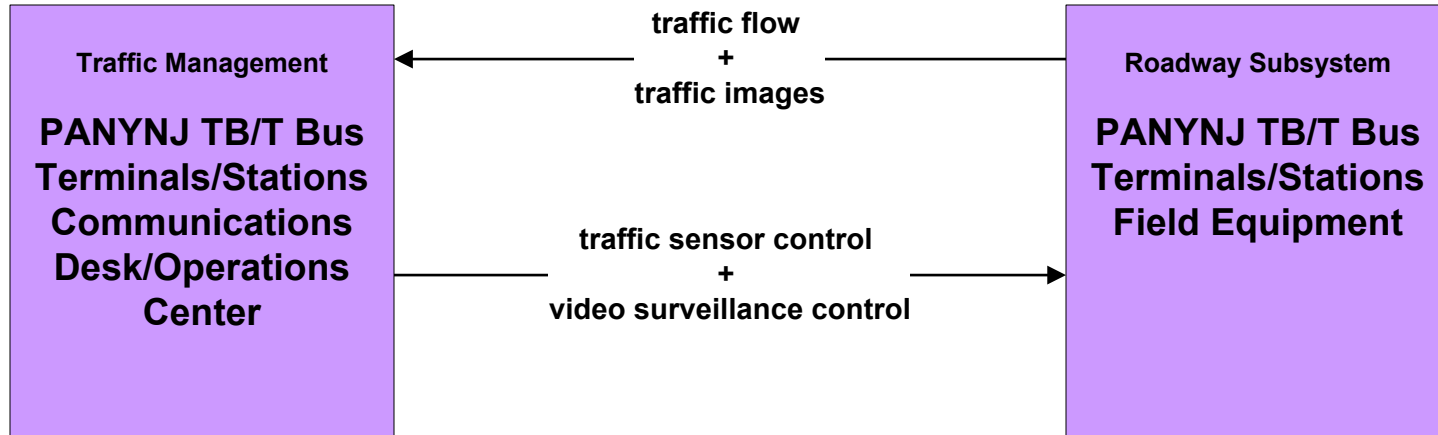
Includes highway advisory telephone.



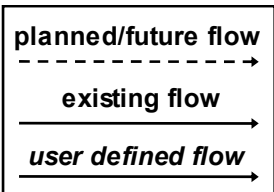
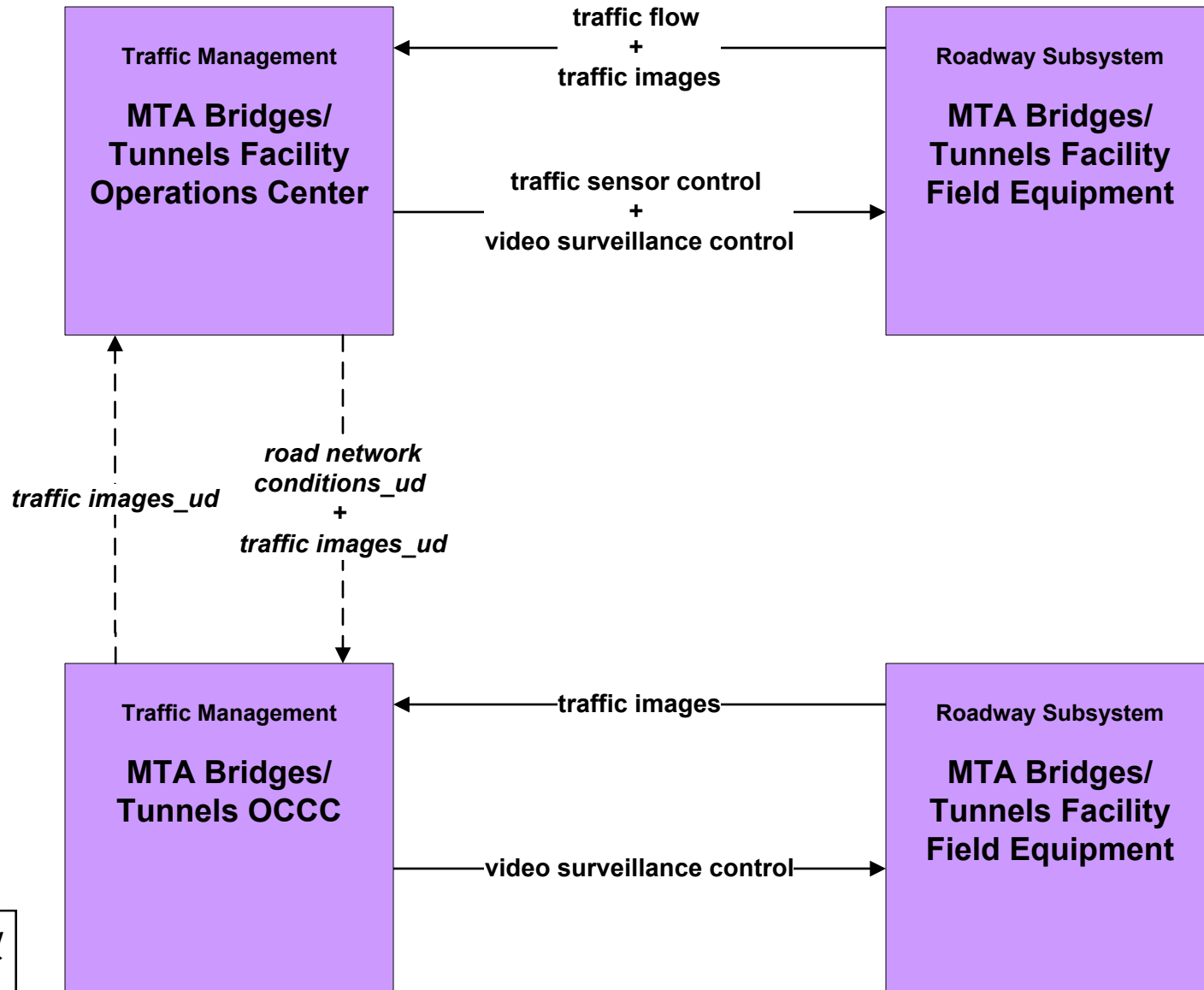
**ATMS01 - Network Surveillance
PANYNJ Port Commerce**



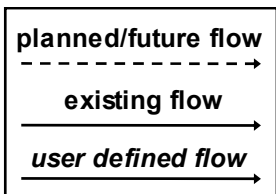
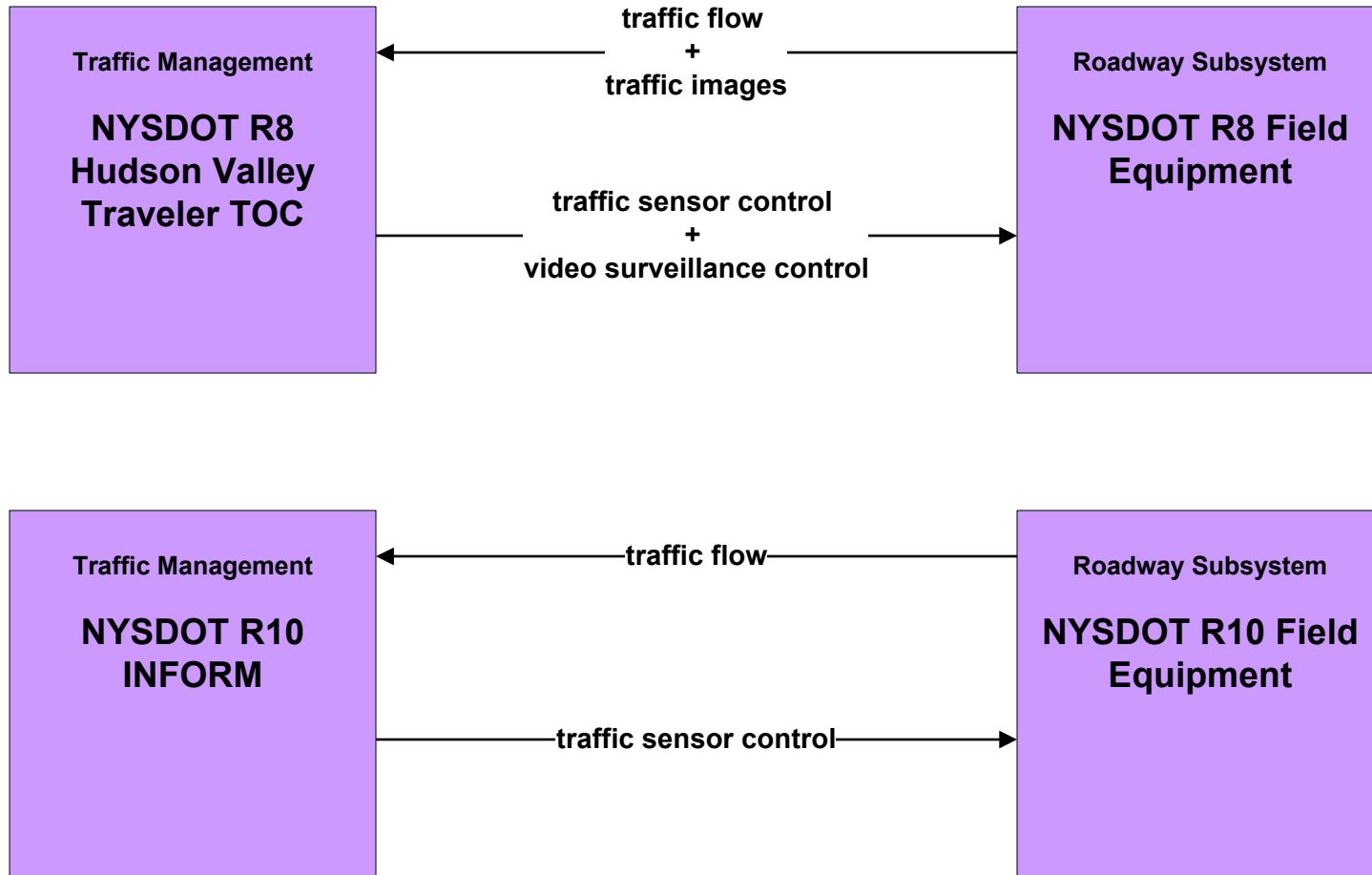
**ATMS01 - Network Surveillance
PANYNJ Bus Terminals/Stations**



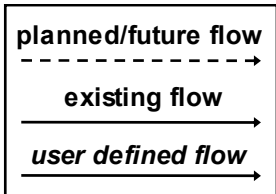
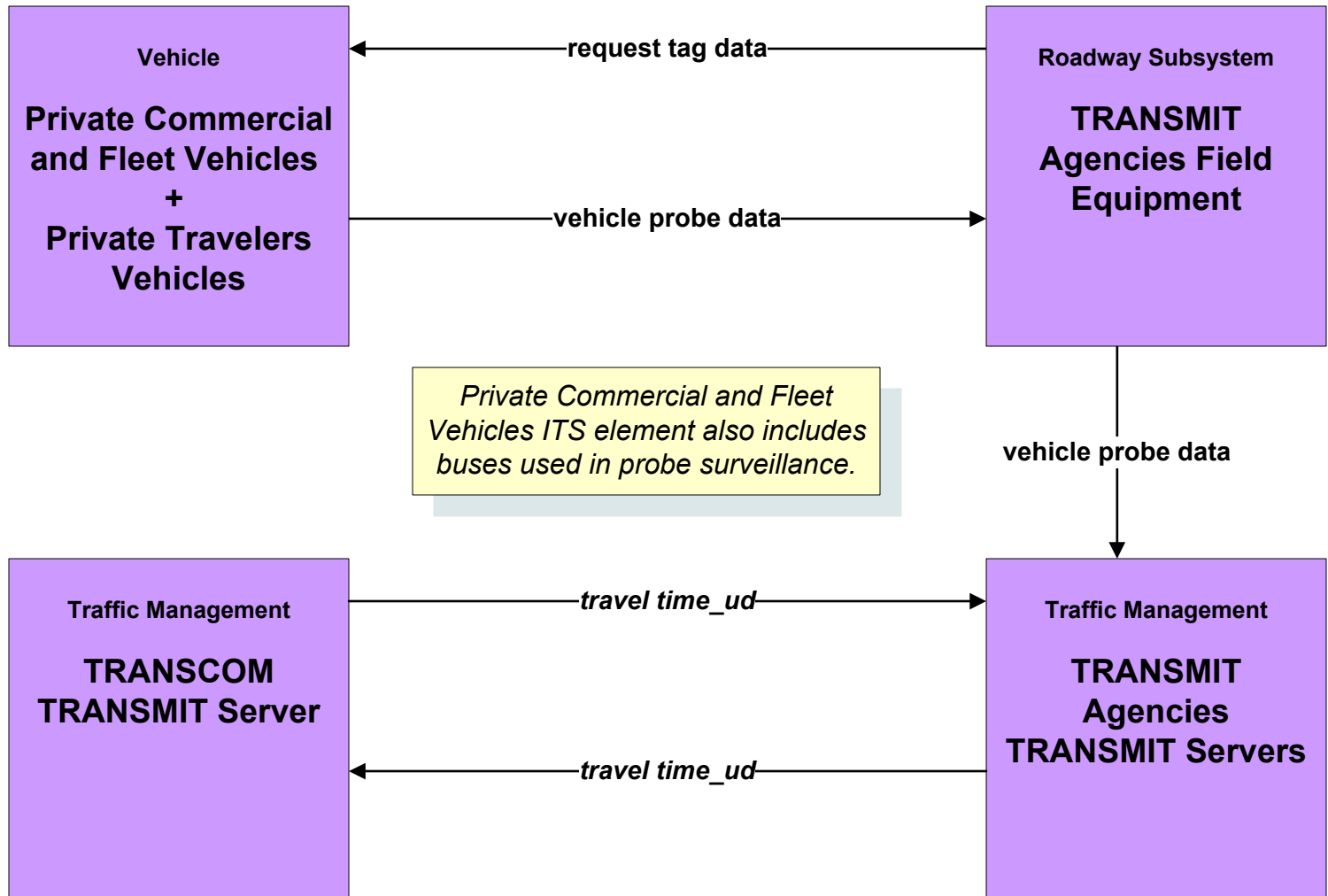
ATMS01 - Network Surveillance MTA Bridges and Tunnels



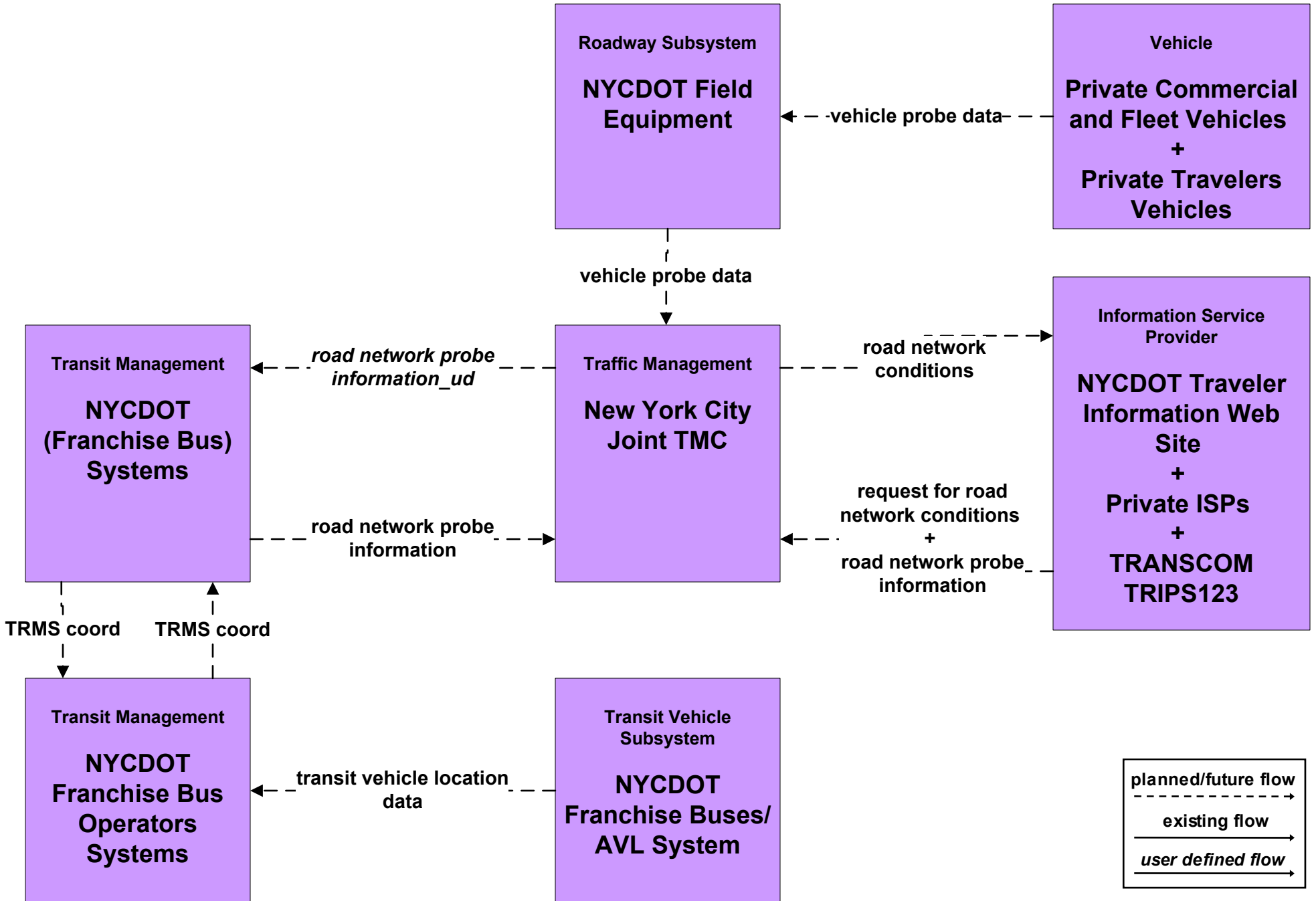
**ATMS01 - Network Surveillance
NYSDOT R8 and NYSDOT R10**



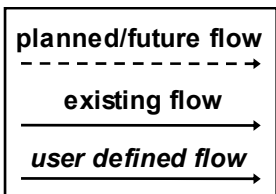
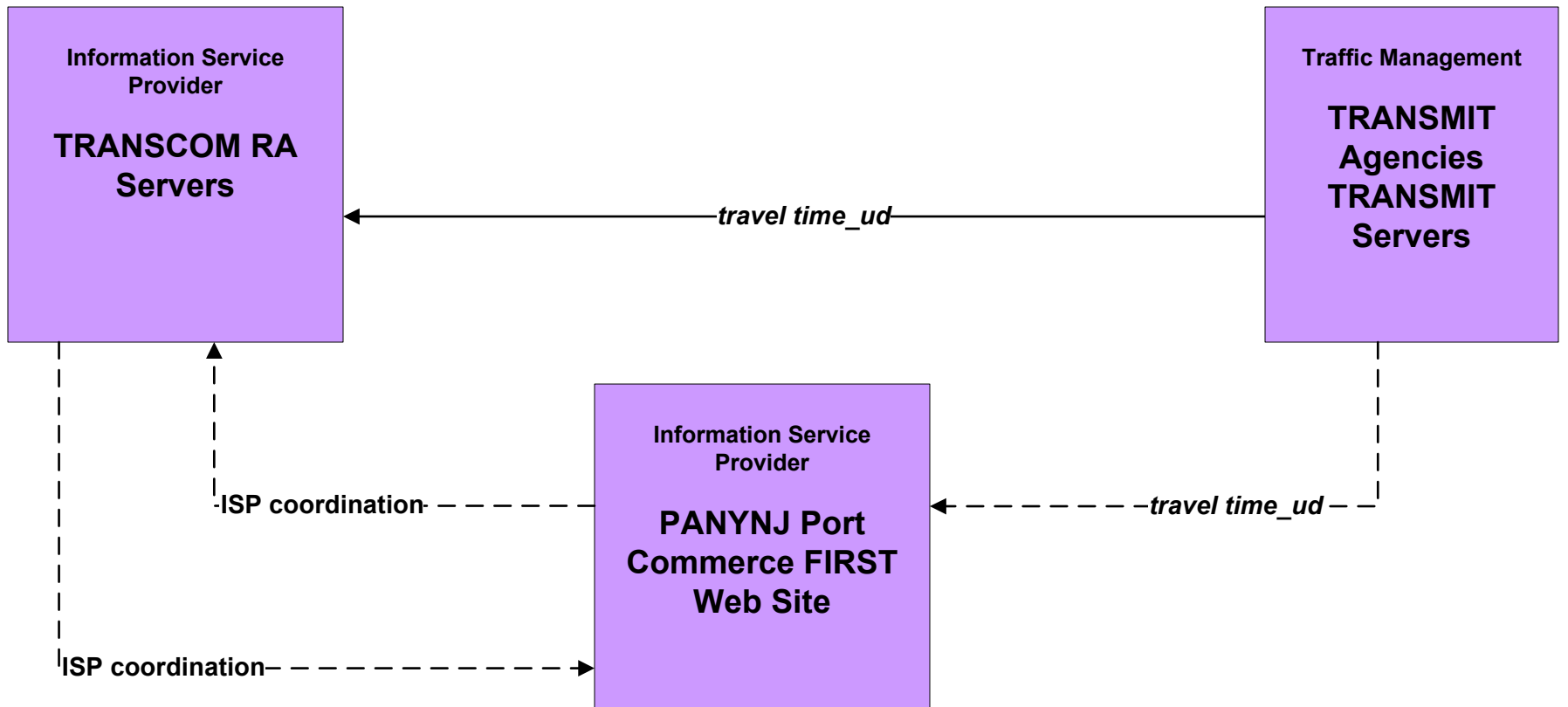
ATMS02 - Probe Surveillance TRANSMIT



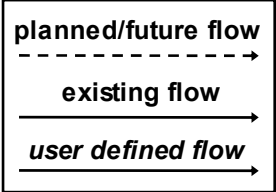
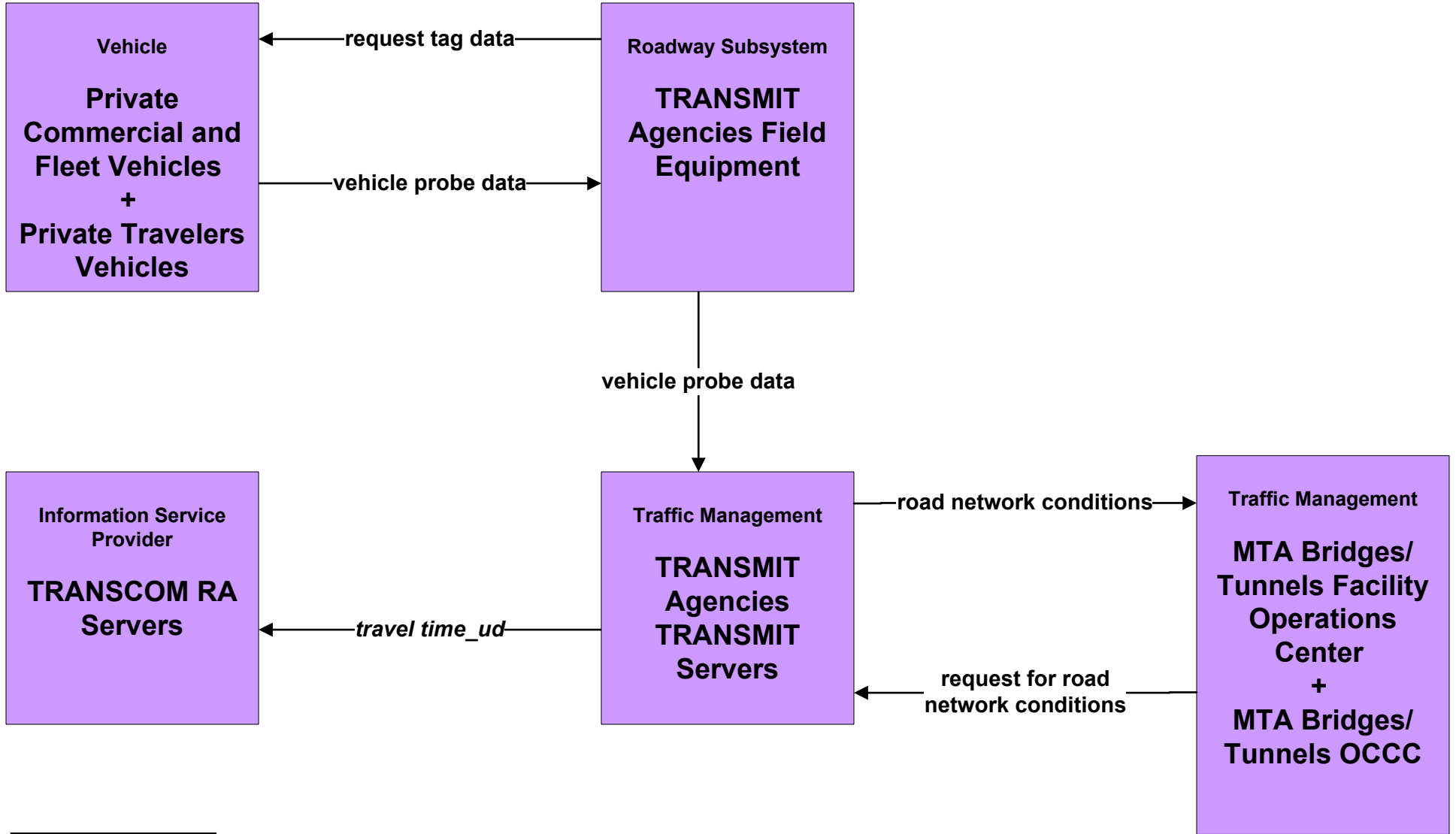
**ATMS02 - Probe Surveillance
New York City Joint TMC**



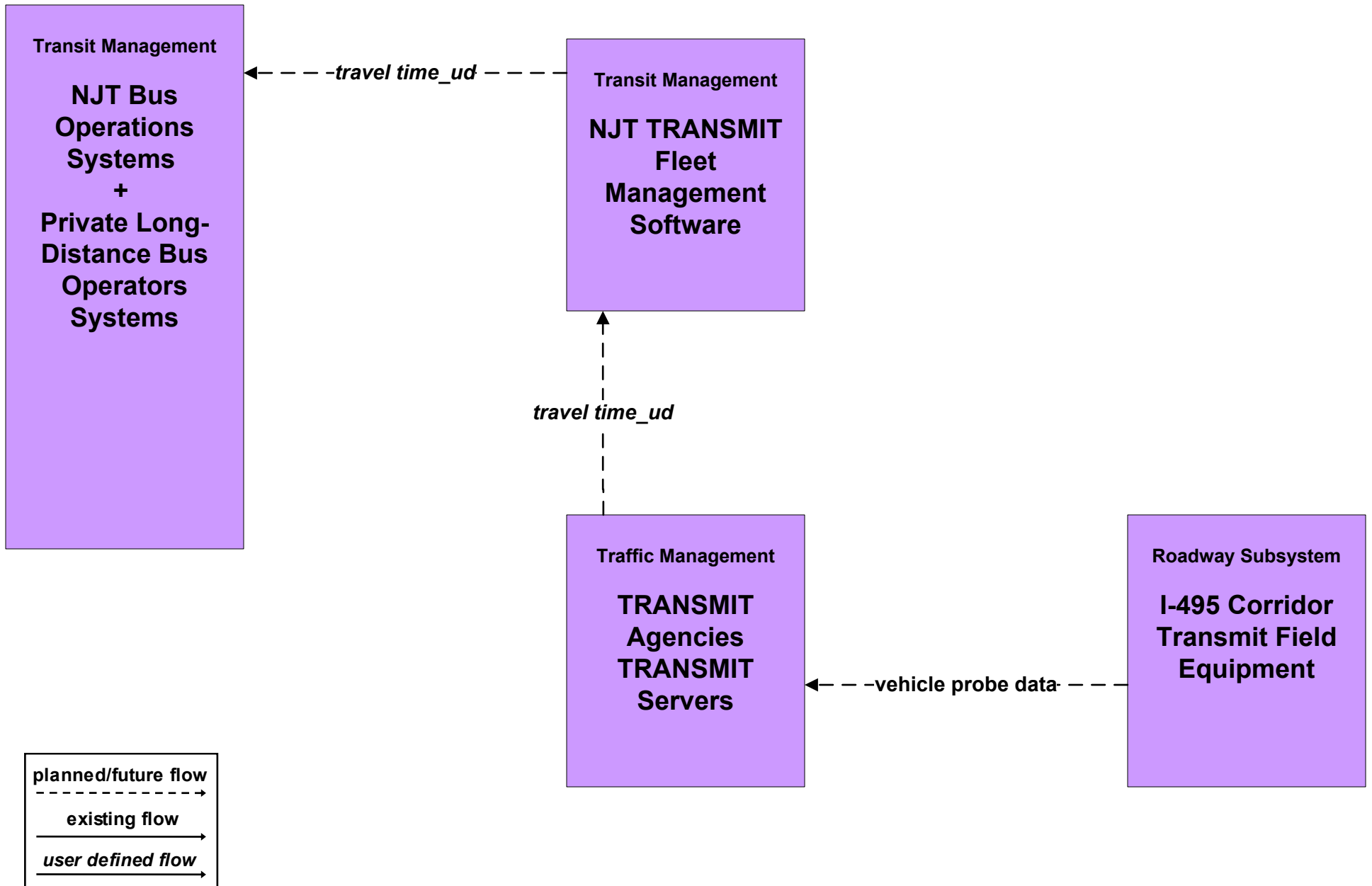
ATMS02 - Probe Surveillance
PANYNJ Port Commerce FIRST (Freight Information for Real-Time System for Transport)



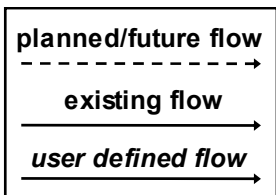
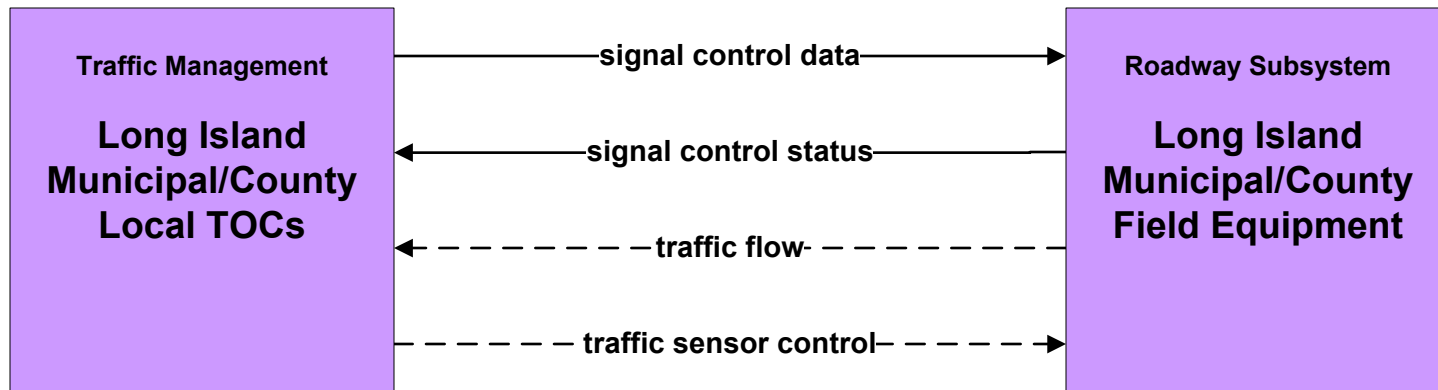
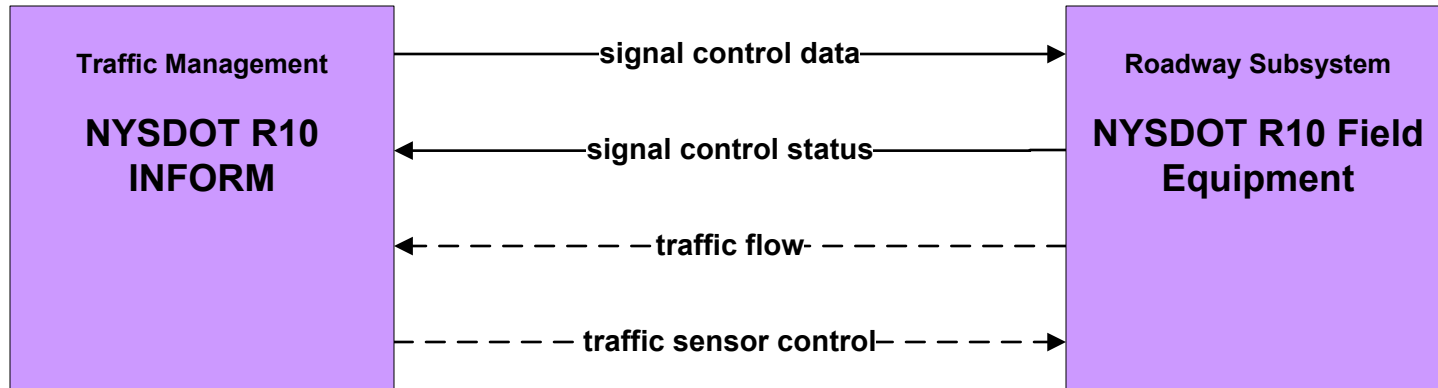
**ATMS02 - Probe Surveillance
MTA Bridges and Tunnels**



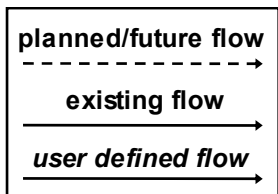
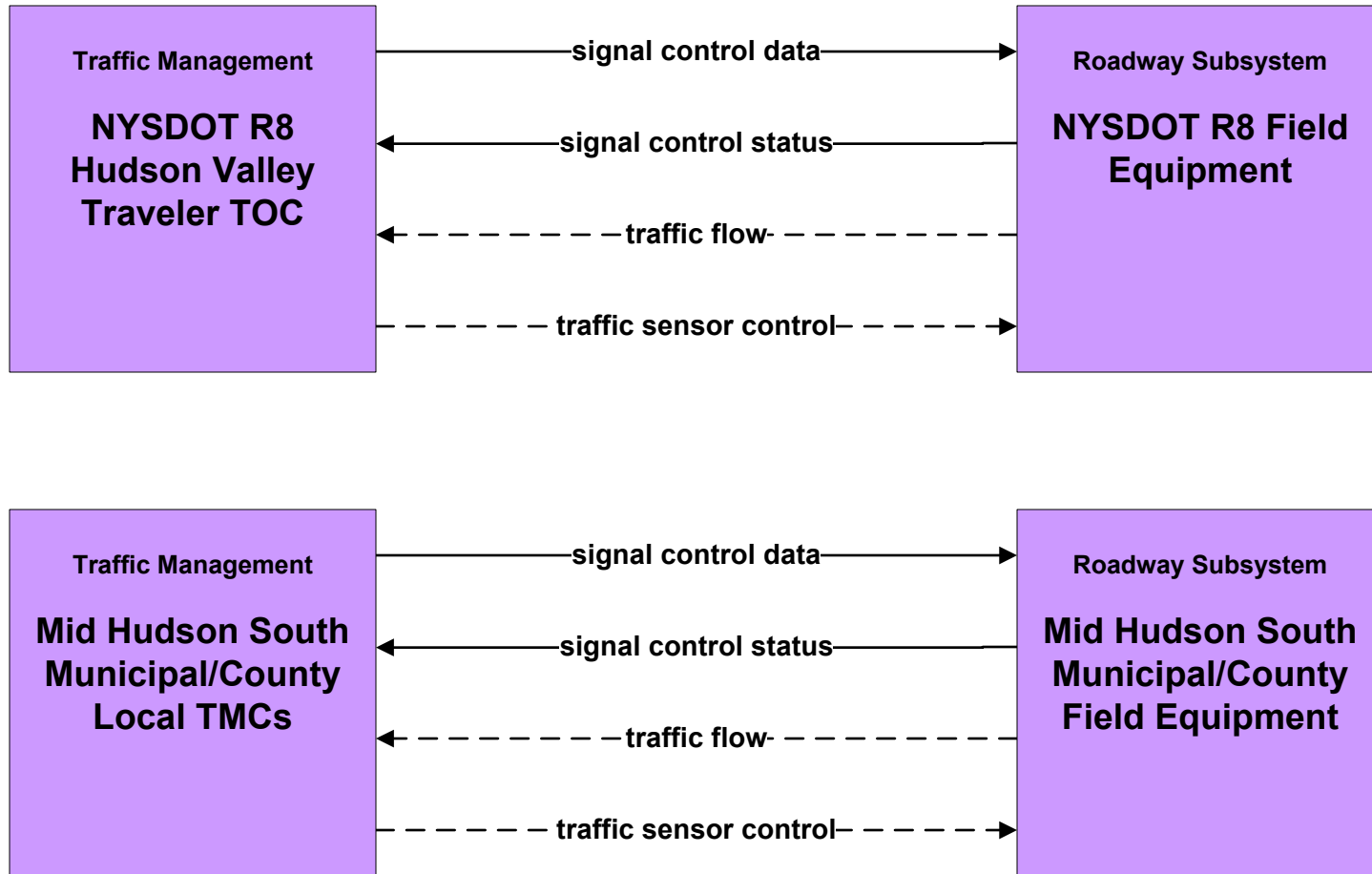
ATMS02 - Probe Surveillance
PANYNJ Tunnels/Bridges, PANYNJ Bus Terminal



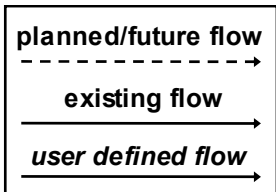
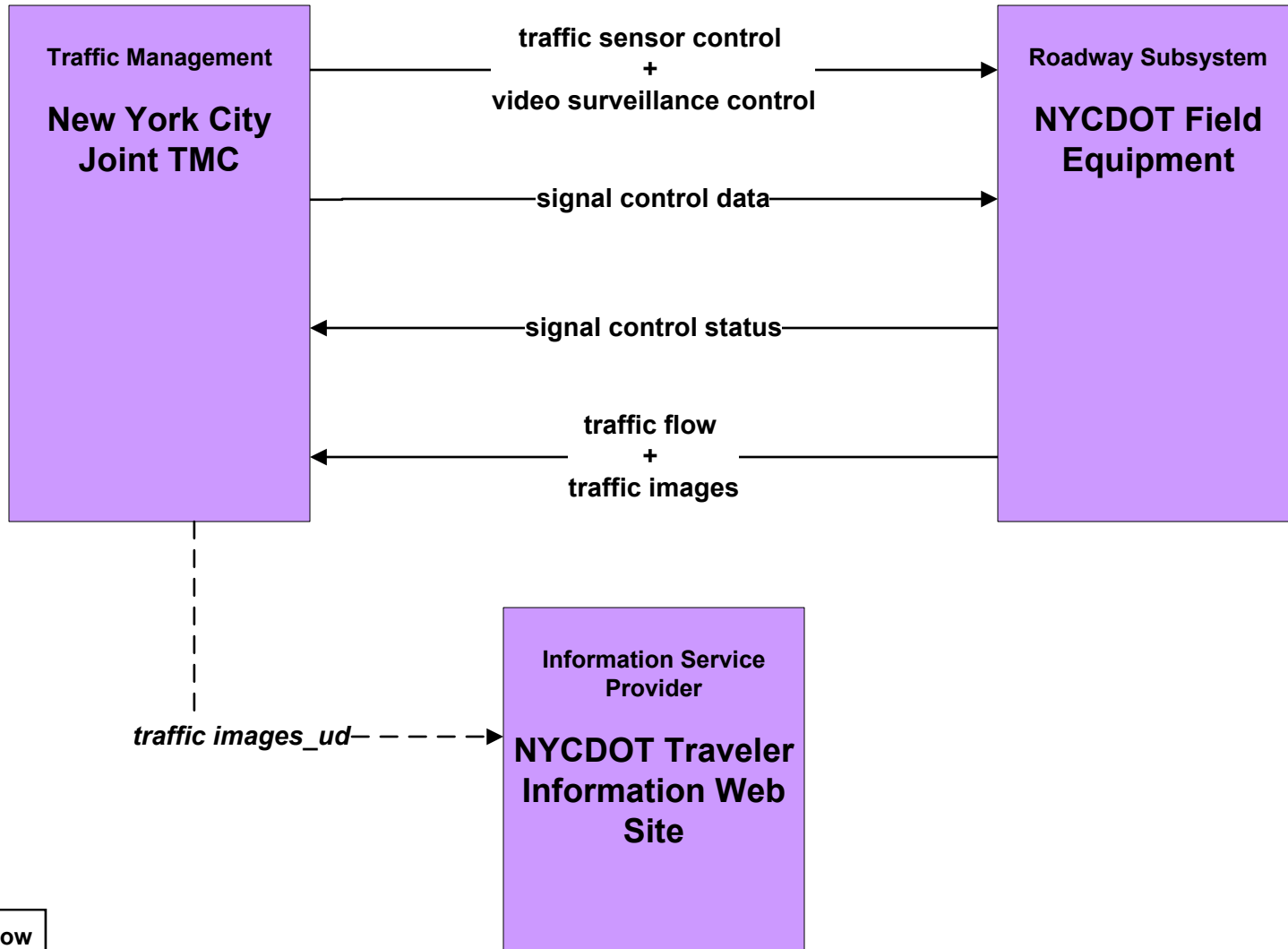
ATMS03 - Surface Street Control
NYSDOT R10 INFORM / Long Island Municipal/County TMCs



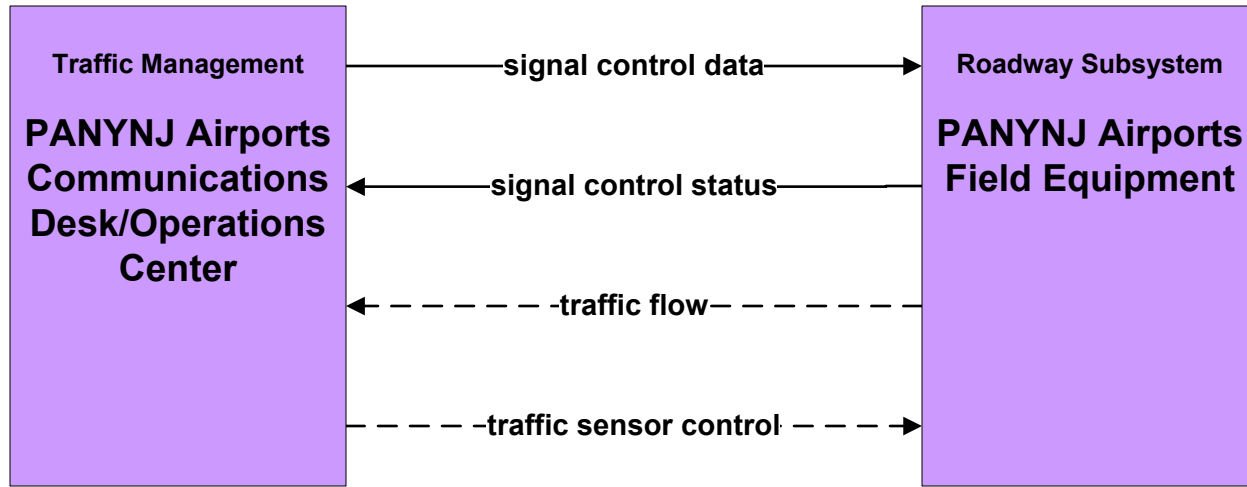
**ATMS03 - Surface Street Control
NYSDOT R8 TOCs/ Mid Hudson South TMCs**



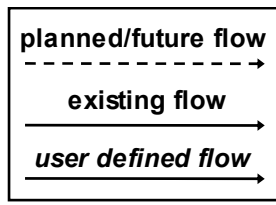
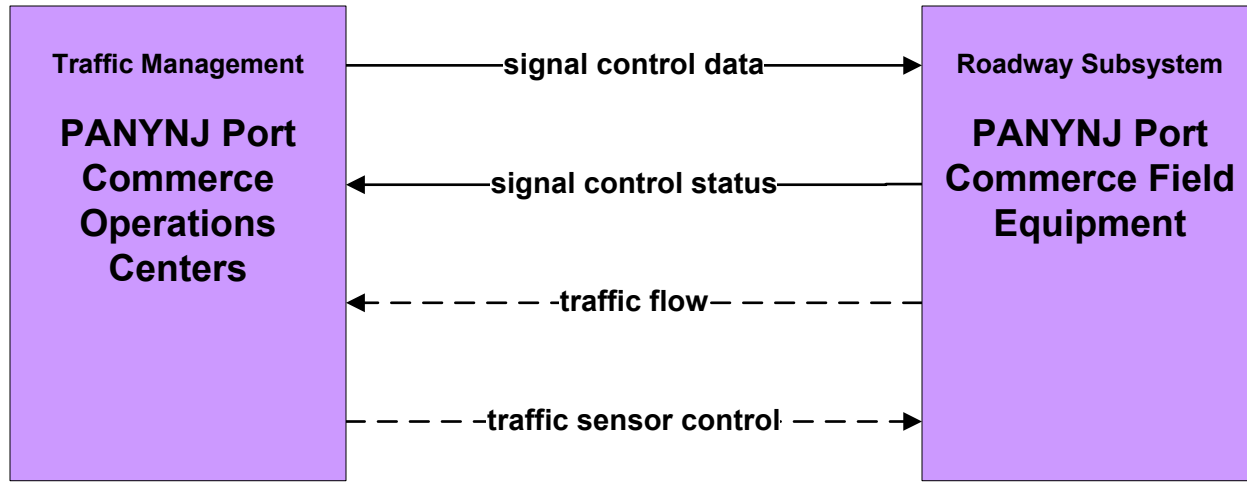
**ATMS03 - Surface Street Control
NYCDOT**



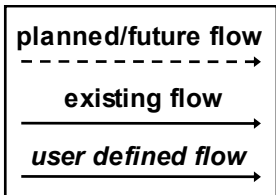
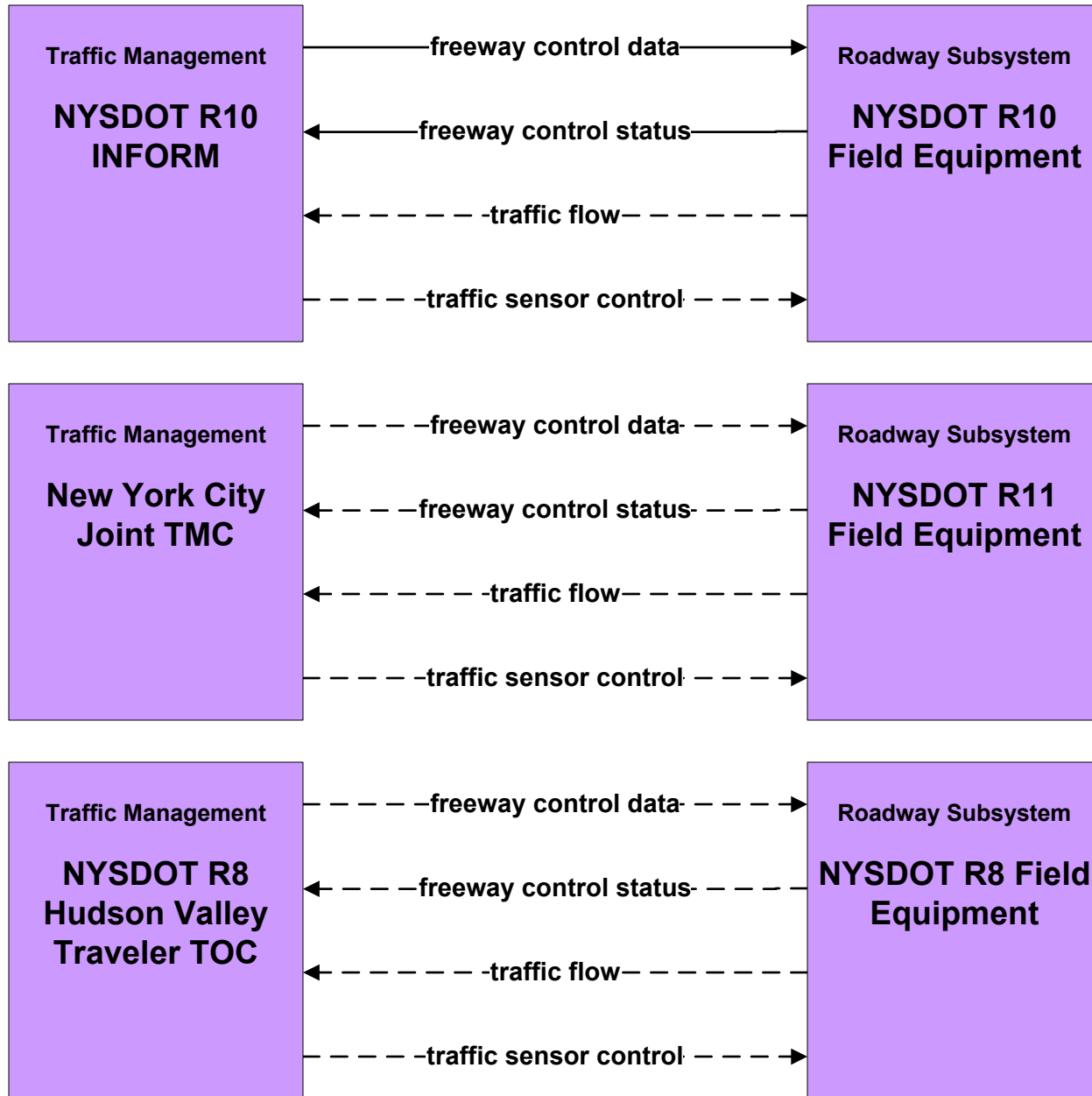
**ATMS03 - Surface Street Control
PANYNJ Airports and Port Commerce**



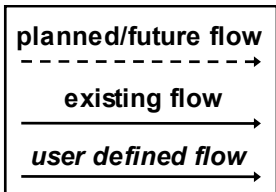
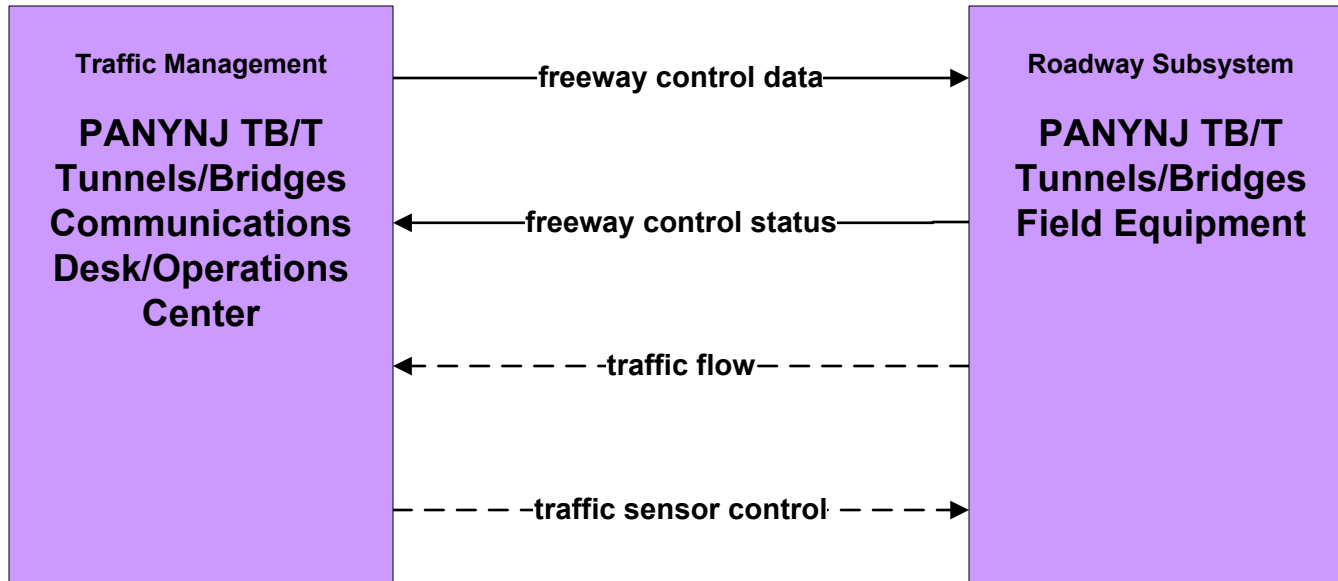
traffic flow information includes traffic conditions, e.g. queues.



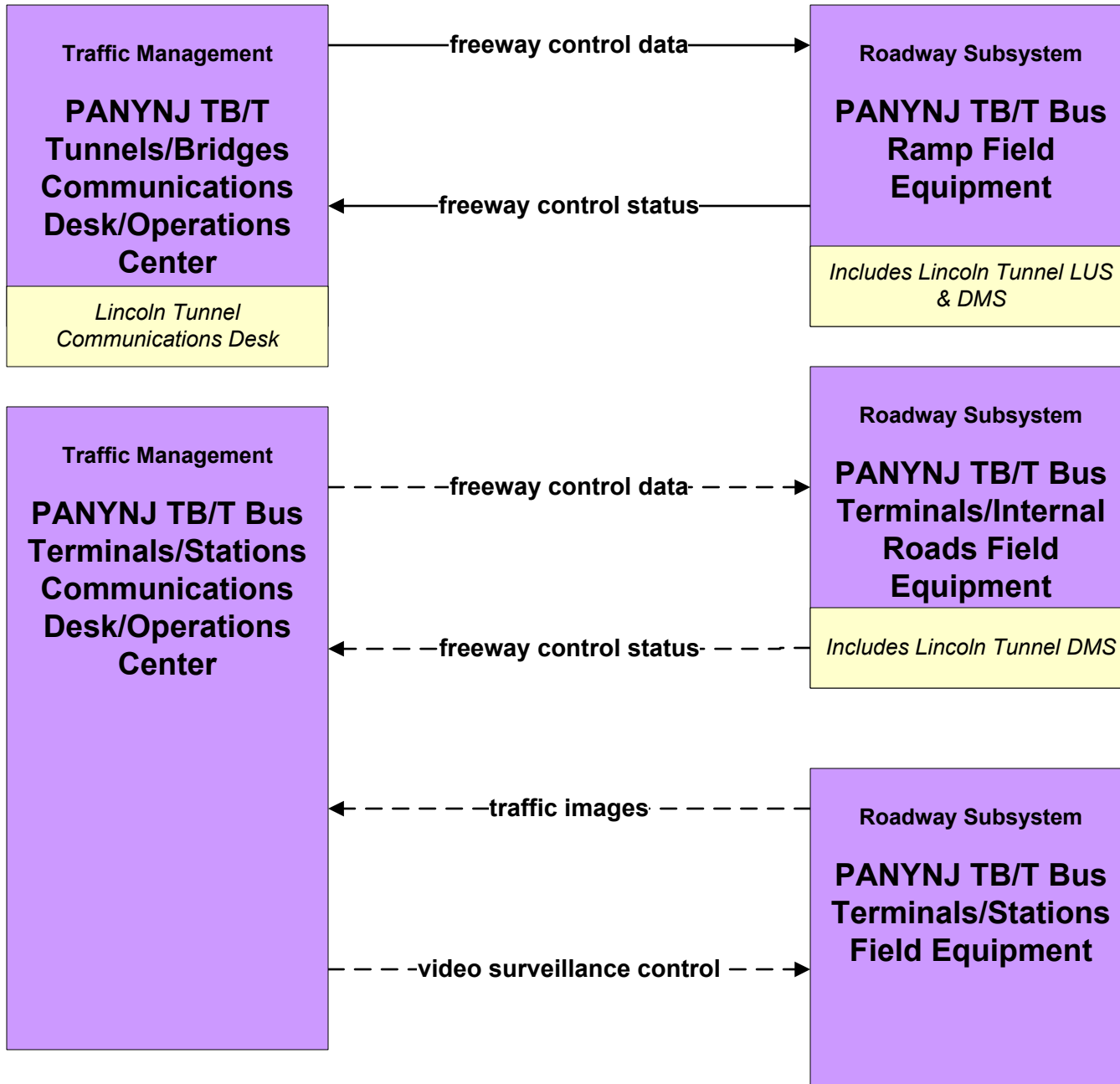
**ATMS04 - Freeway Control
NYSDOT R8/R10/R11**



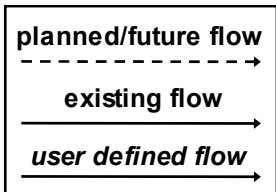
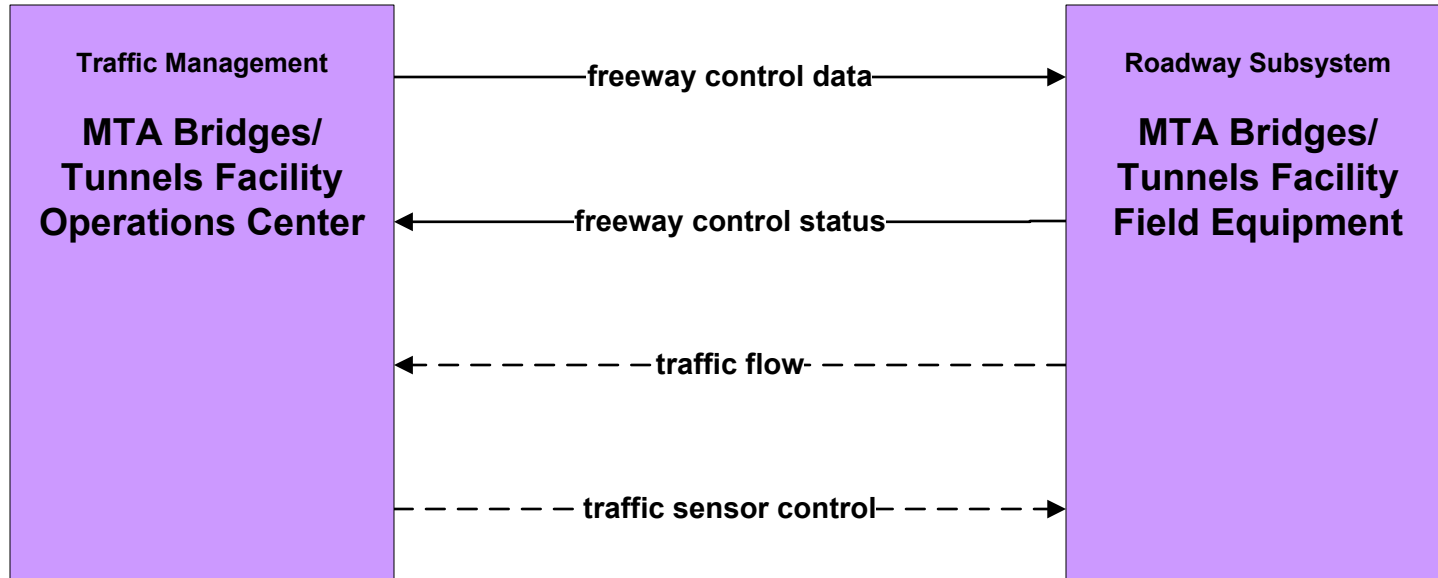
**ATMS04 - Freeway Control
PANYNJ Tunnels/Bridges**



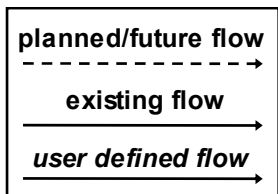
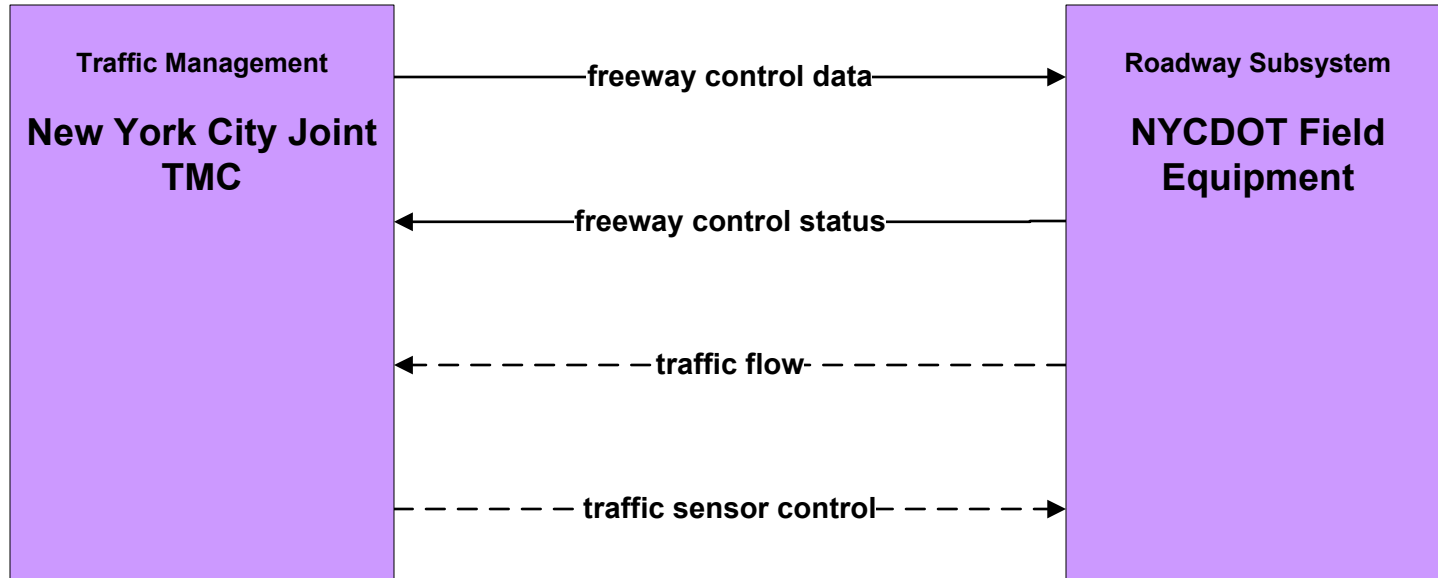
**ATMS04 - Freeway Control
PANYNJ Bus Terminal**



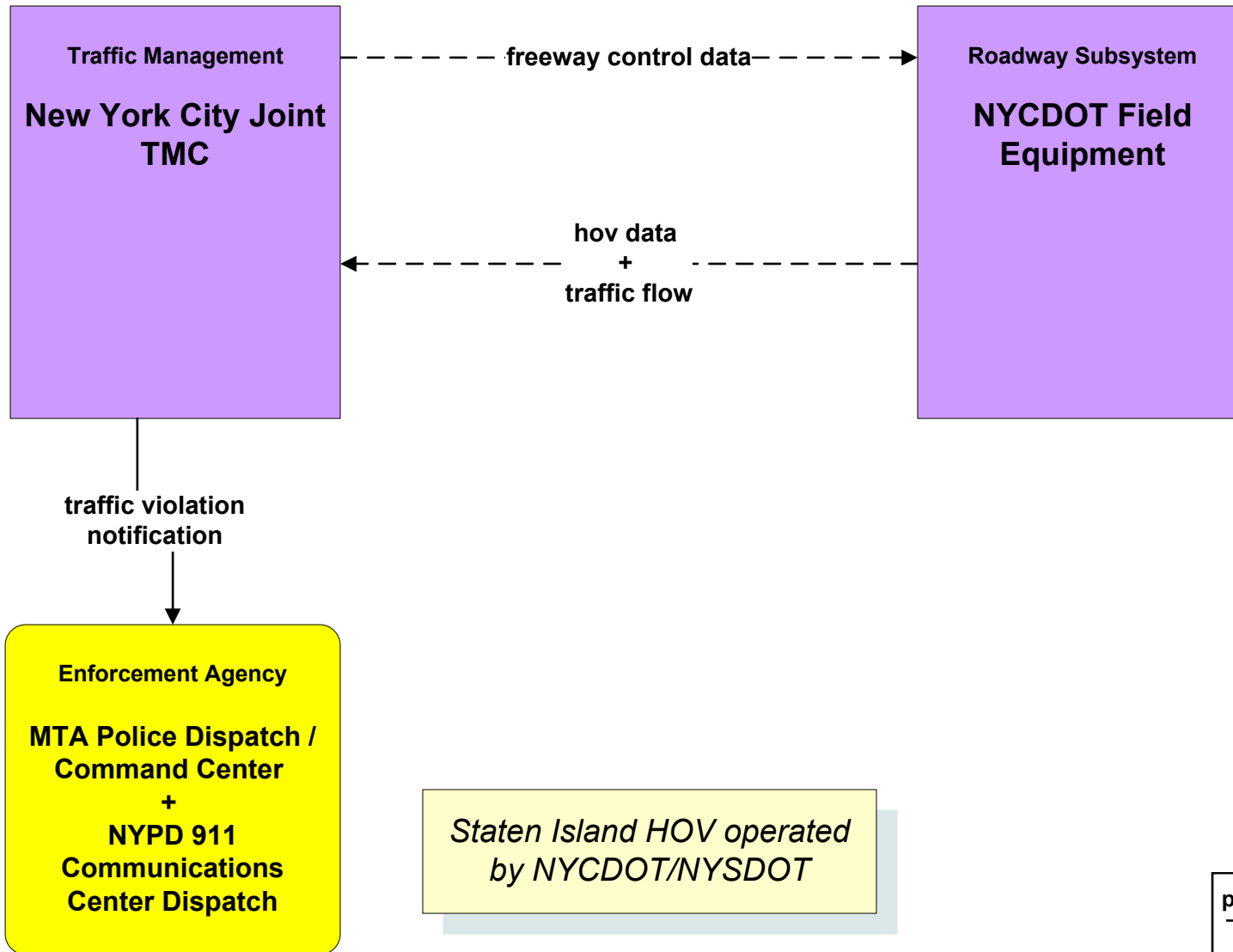
ATMS04 - Freeway Control MTA Bridges and Tunnels



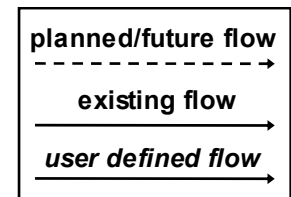
**ATMS04 - Freeway Control
NYCDOT**



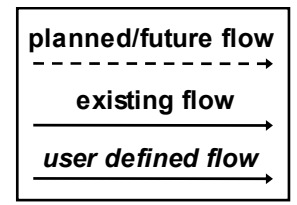
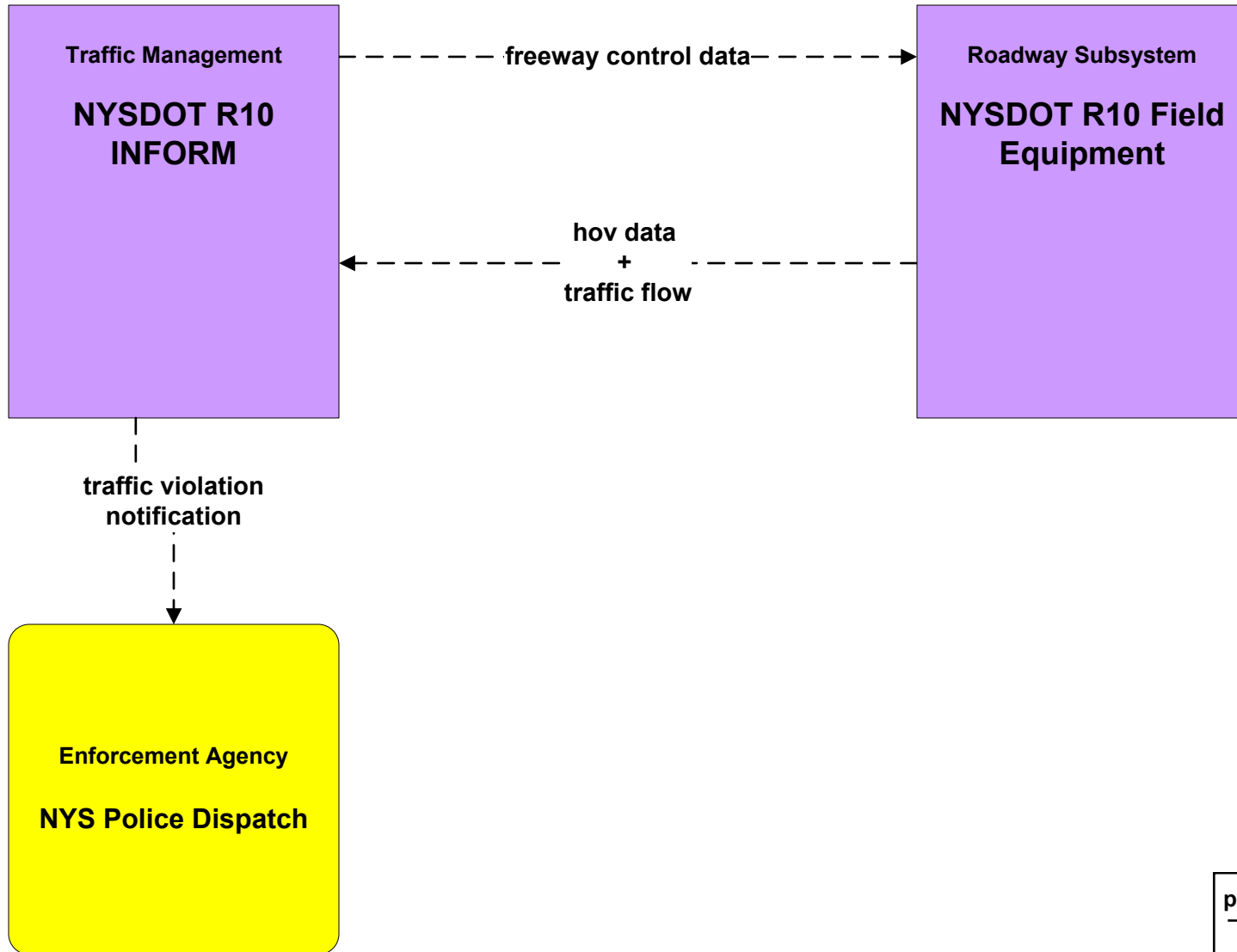
**ATMS05 - HOV Lane Management
NYCDOT - LIE/BQE/SIE HOV**



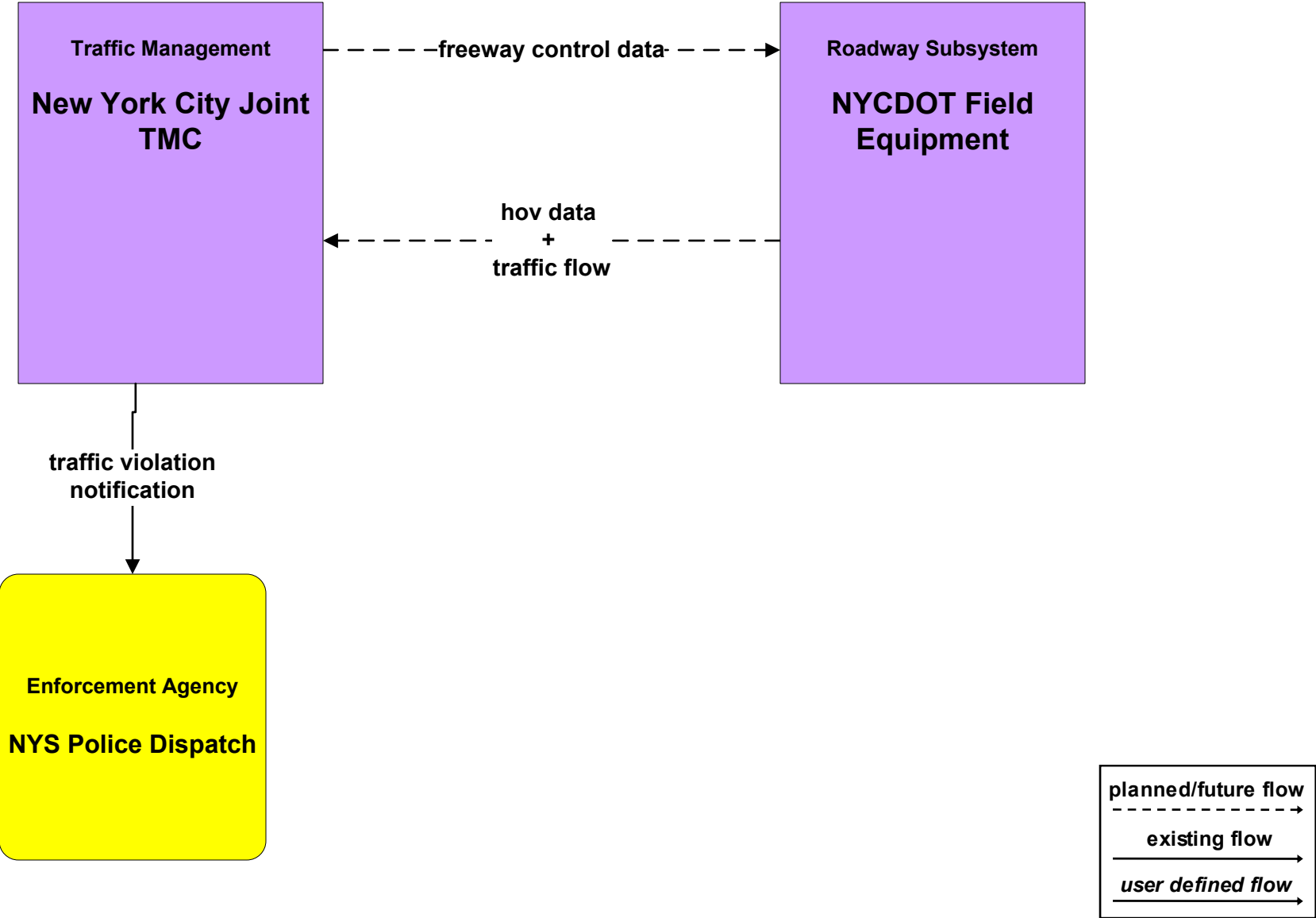
*Staten Island HOV operated
by NYCDOT/NYS DOT*



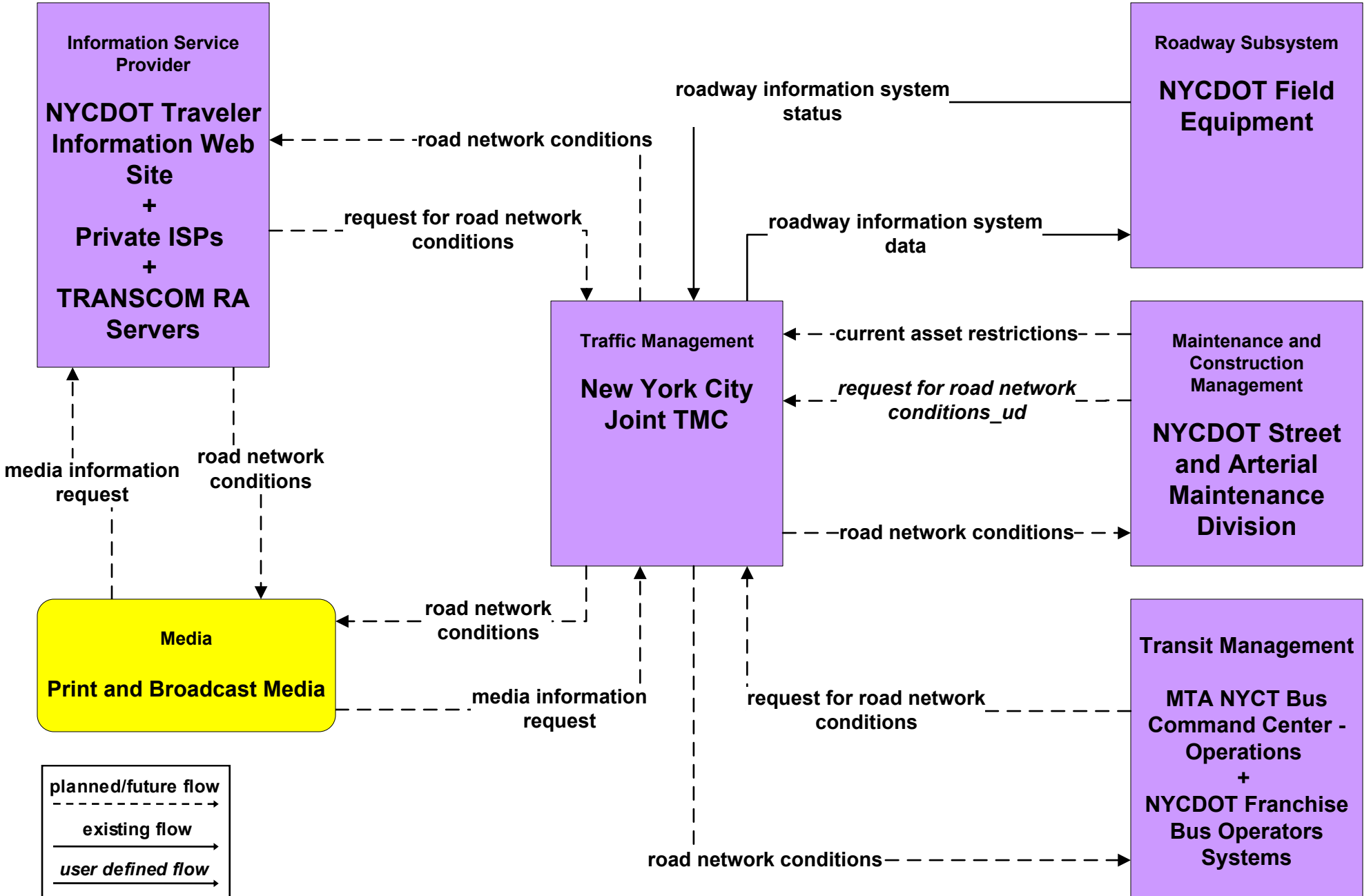
**ATMS05 - HOV Lane Management
NYSDOT R10 INFORM**



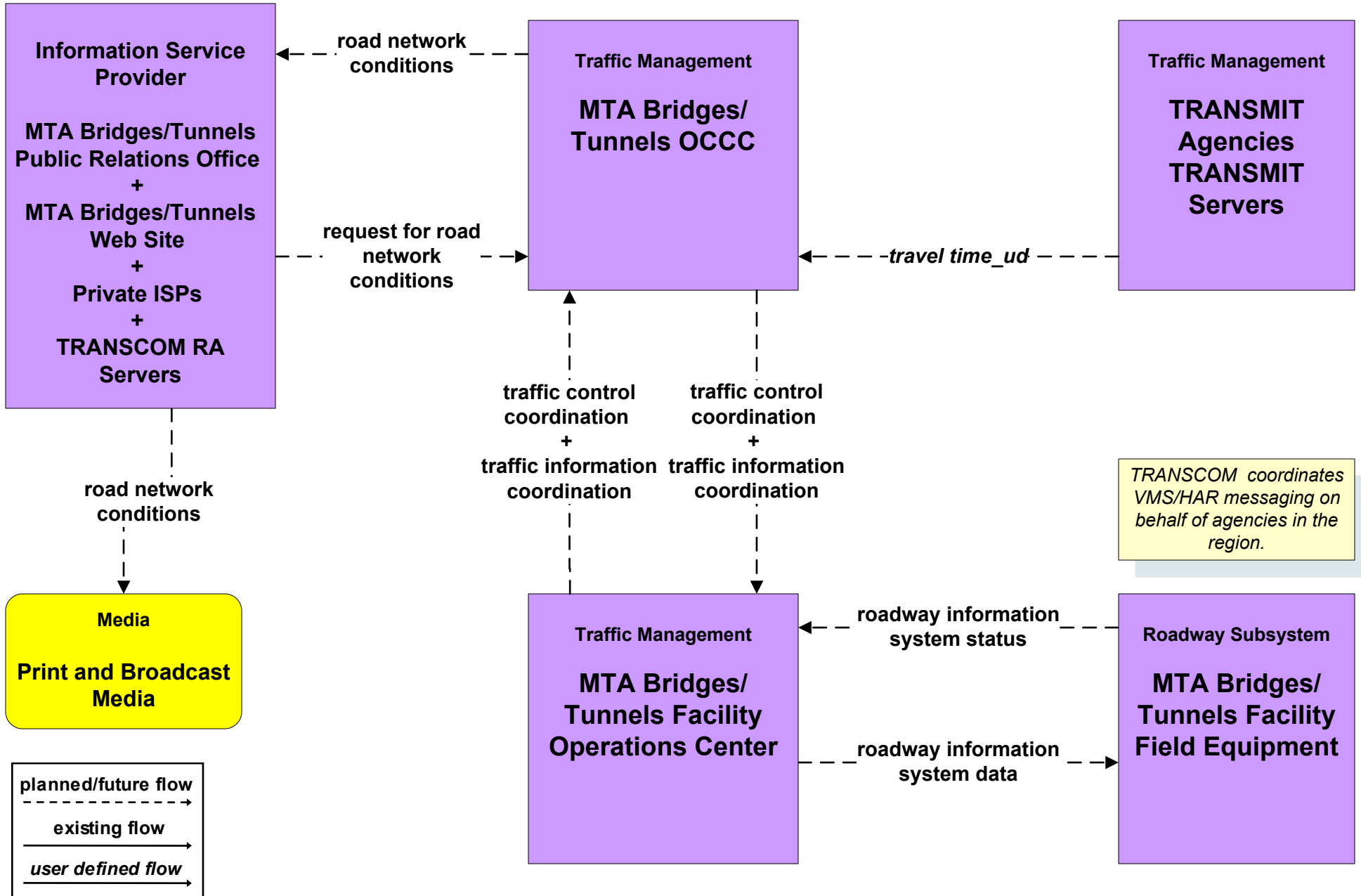
**ATMS05 - HOV Lane Management
NYCDOT - East River Bridge Crossings HOV**



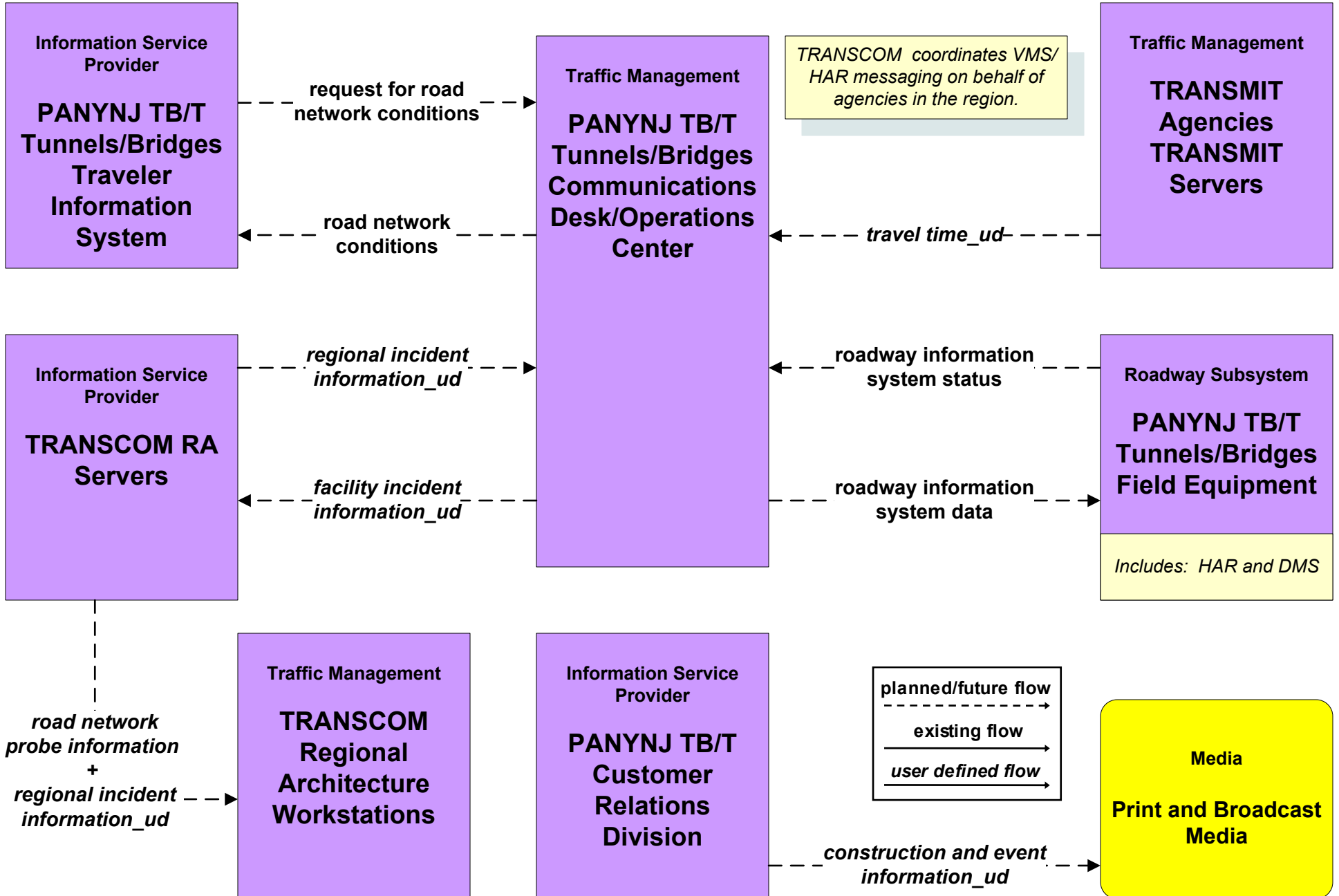
ATMS06 - Traffic Information Dissemination New York City Joint TMC



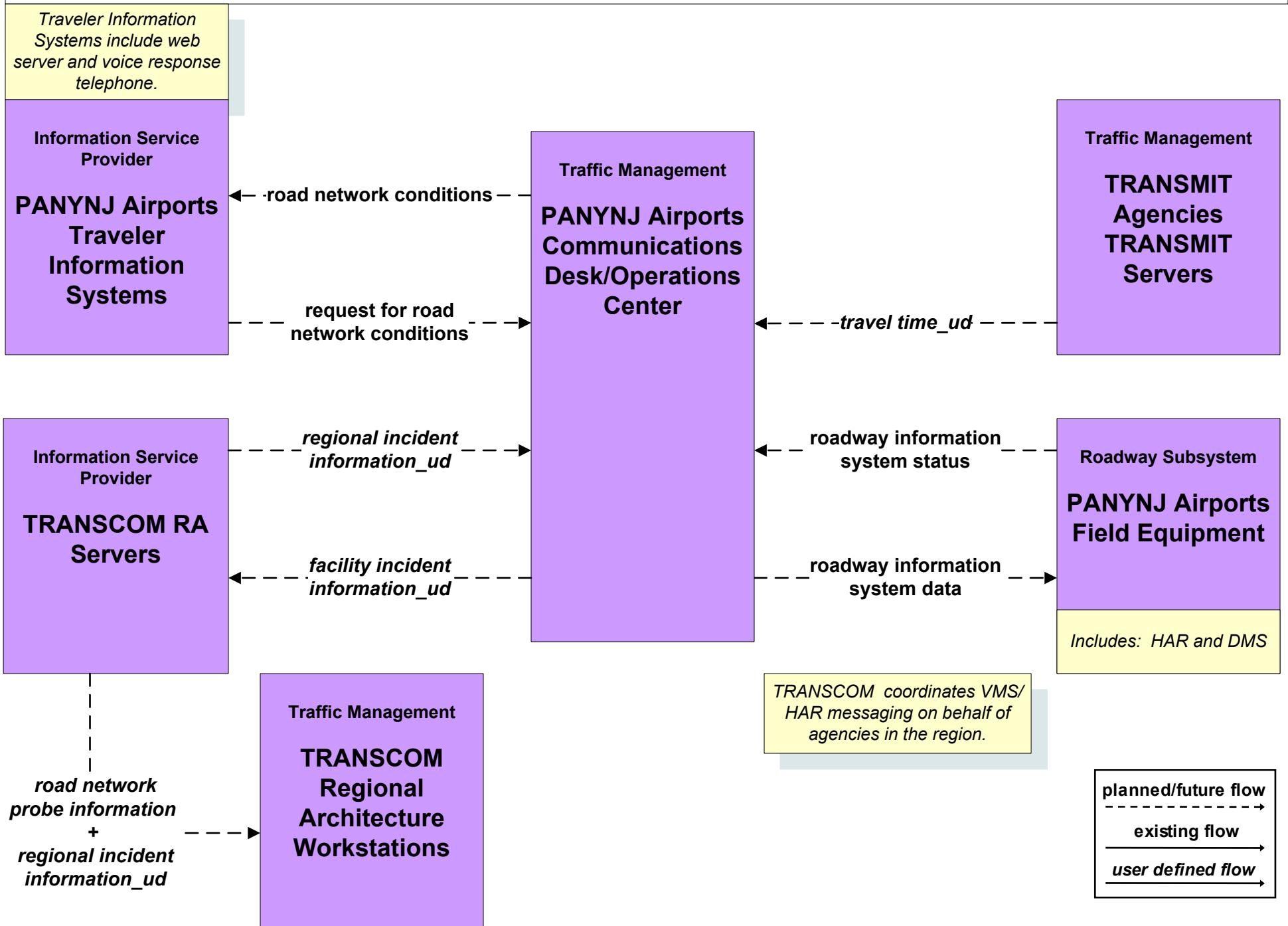
ATMS06 - Traffic Information Dissemination MTA Bridges and Tunnels



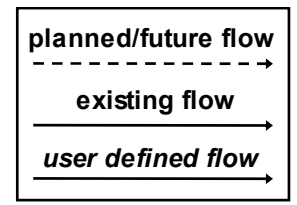
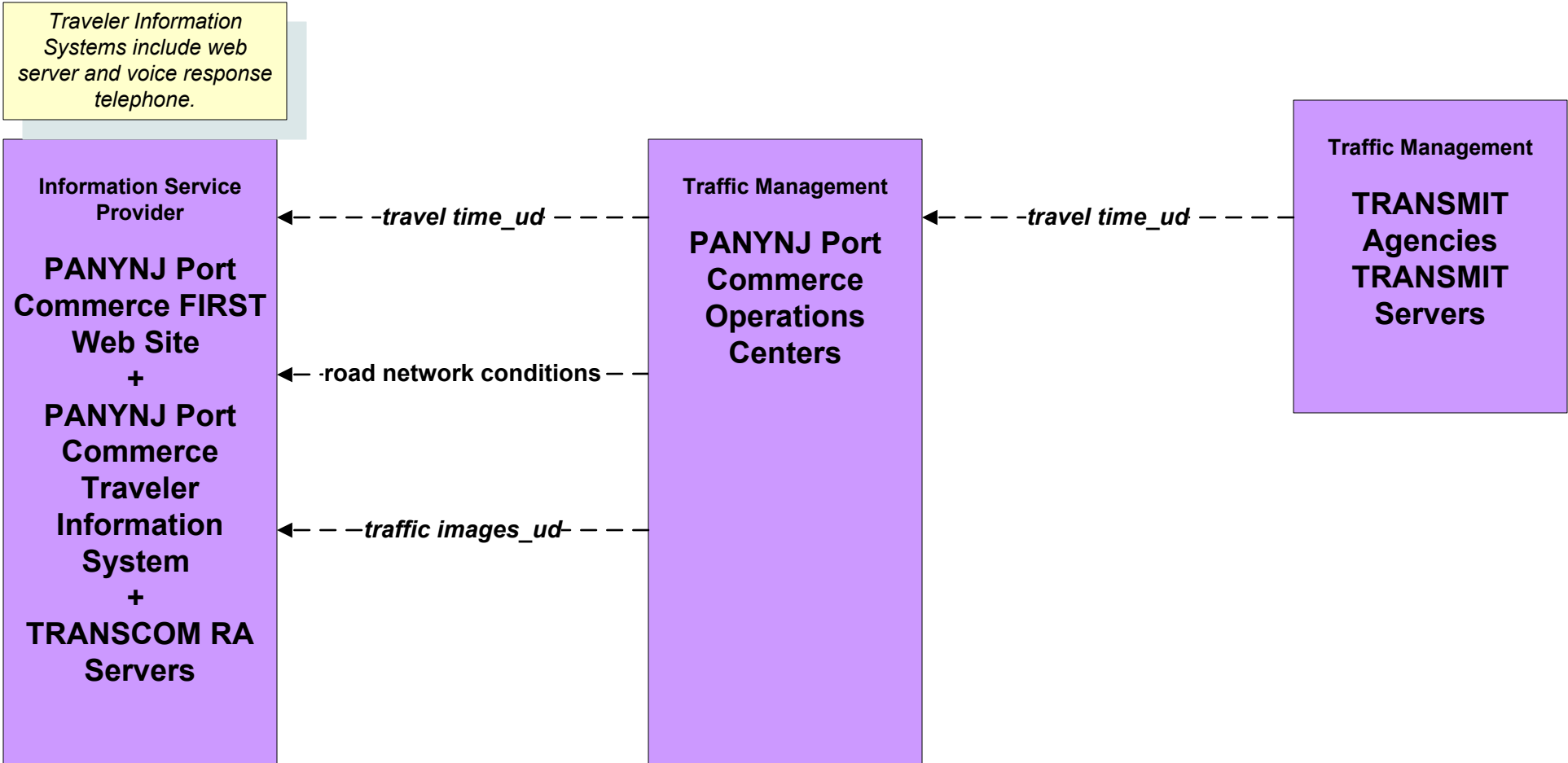
ATMS06 - Traffic Information Dissemination PANYNJ Tunnels/Bridges



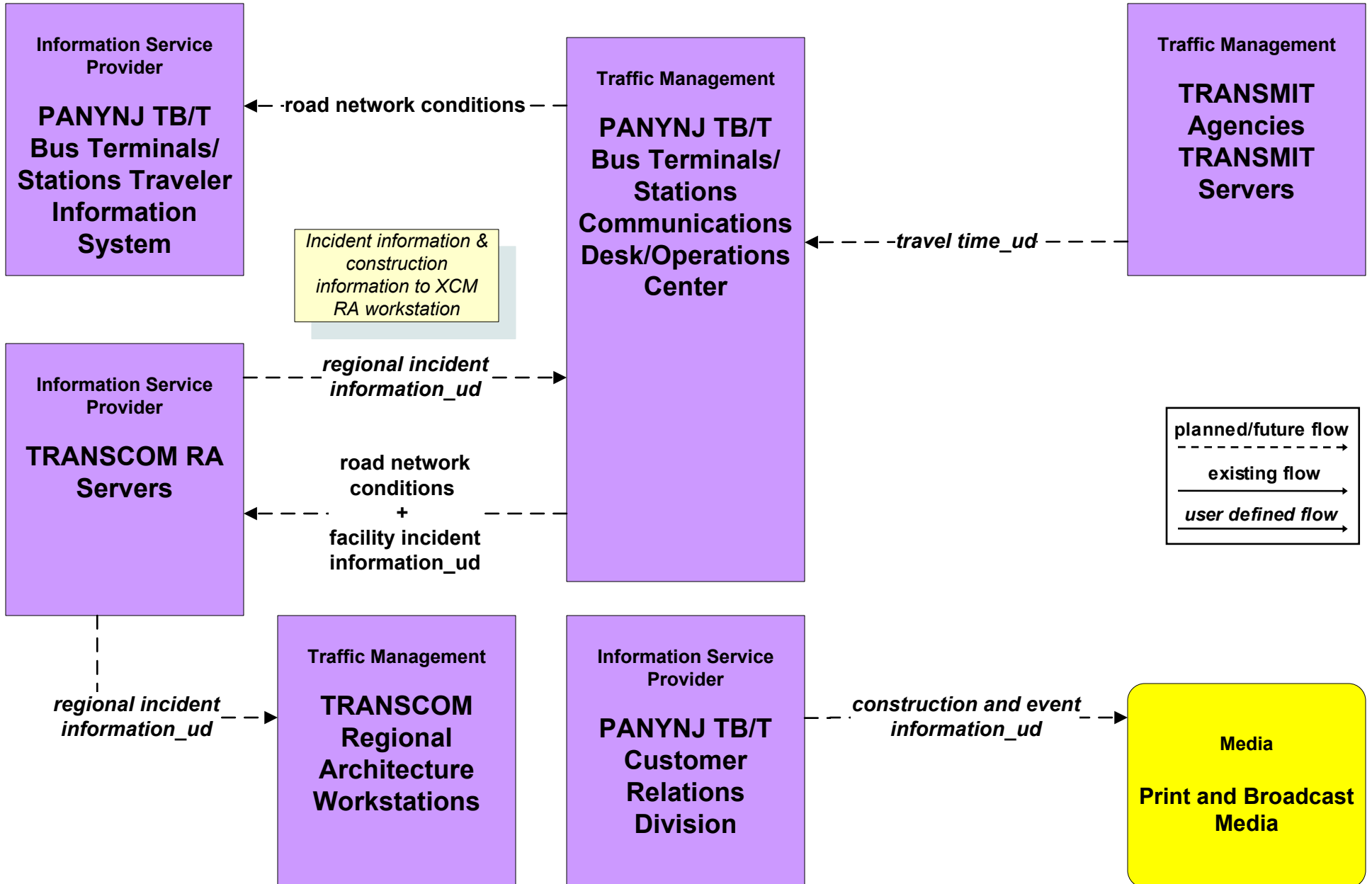
ATMS06 - Traffic Information Dissemination PANYNJ Airports



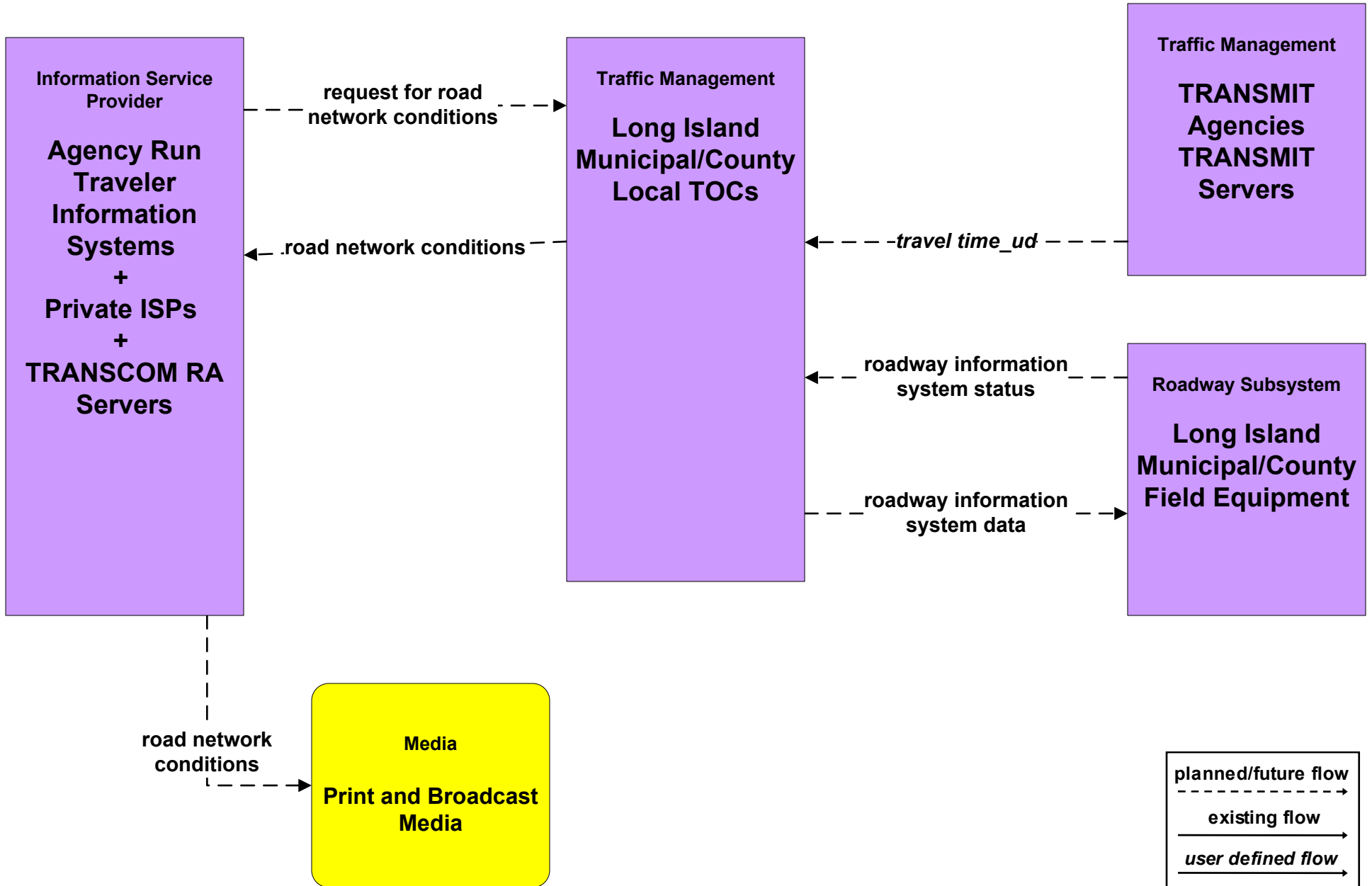
ATMS06 - Traffic Information Dissemination PANYNJ Port Commerce



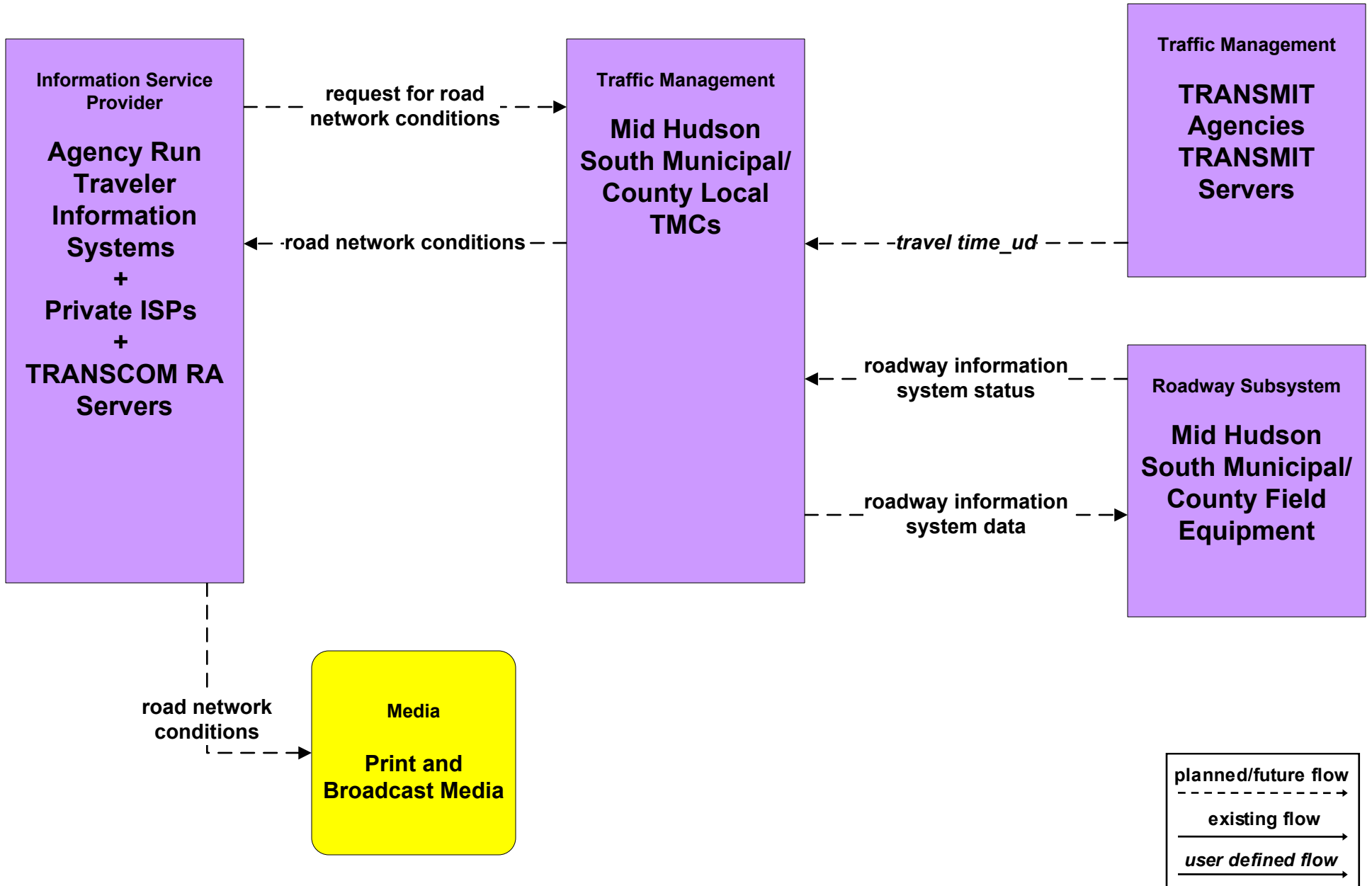
ATMS06 - Traffic Information Dissemination PANYNJ Bus Terminals/Stations



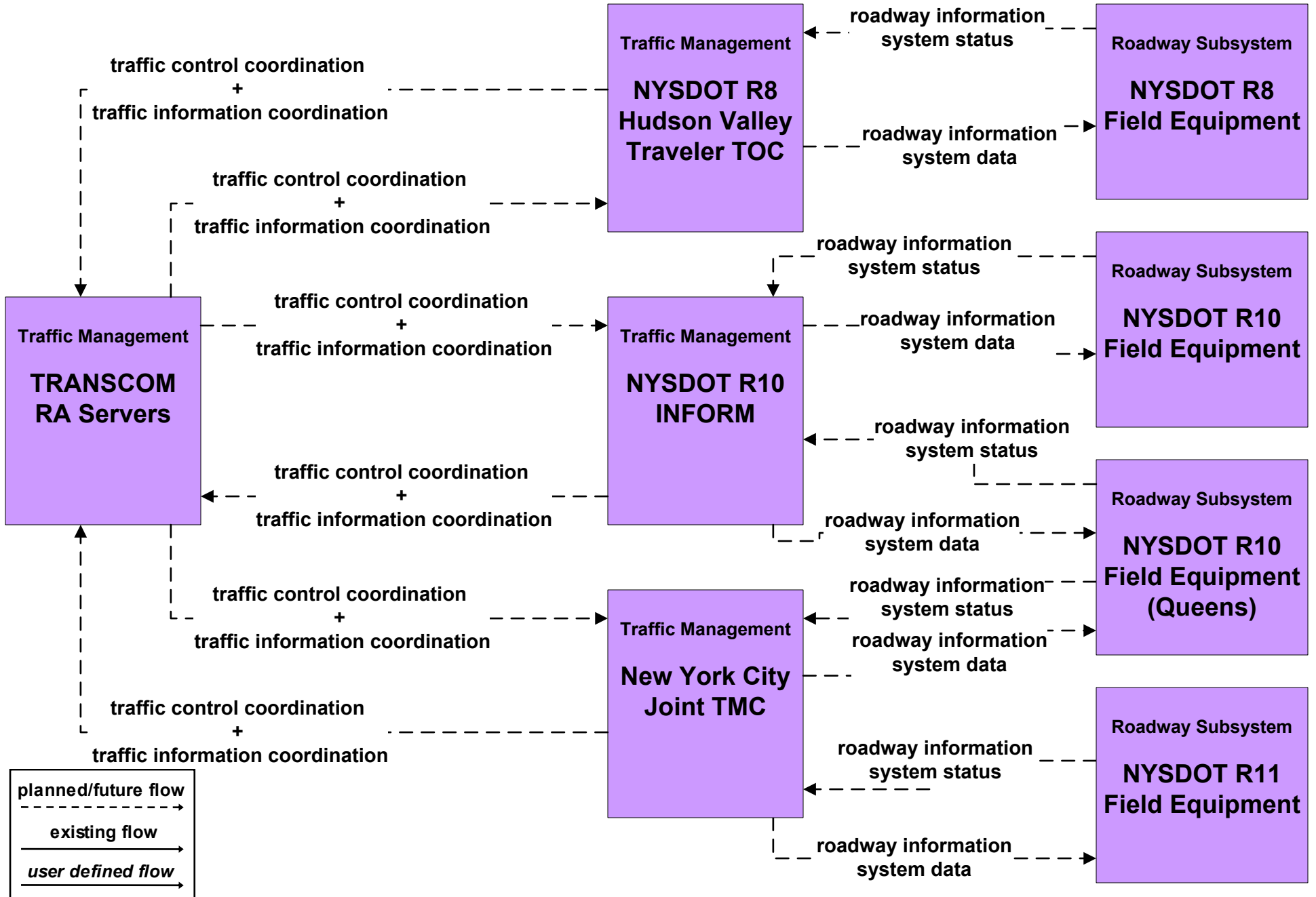
ATMS06 - Traffic Information Dissemination Long Island Municipal/County TMCs



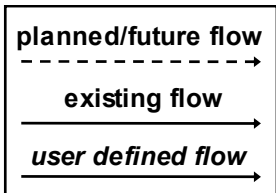
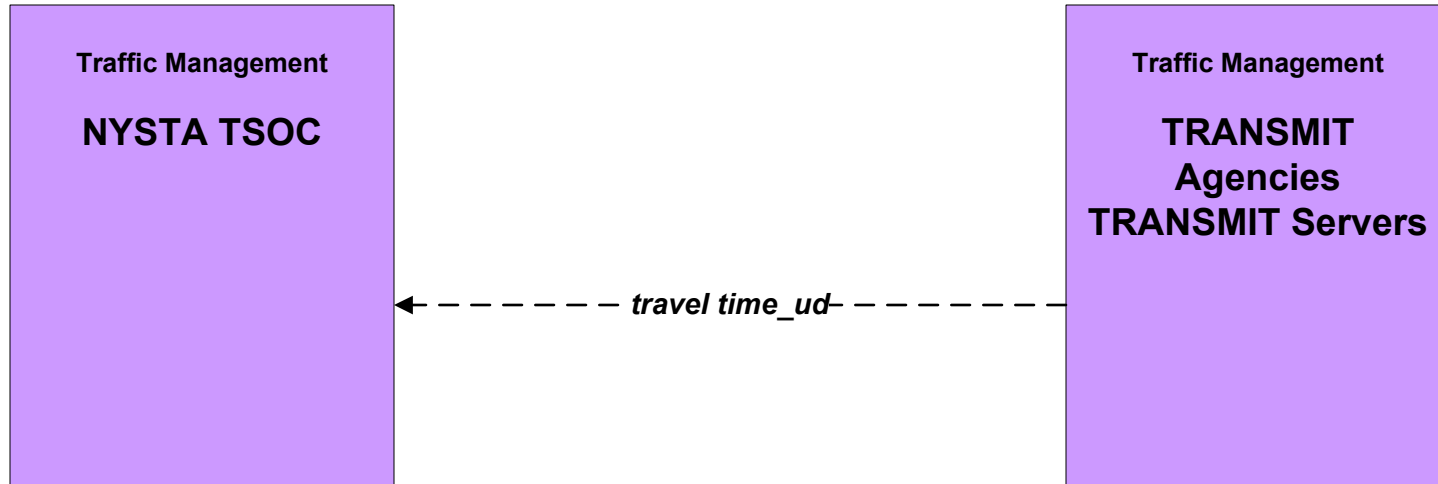
**ATMS06 - Traffic Information Dissemination
Mid Hudson South Municipal/County TMCs**



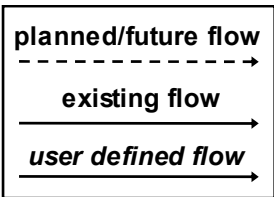
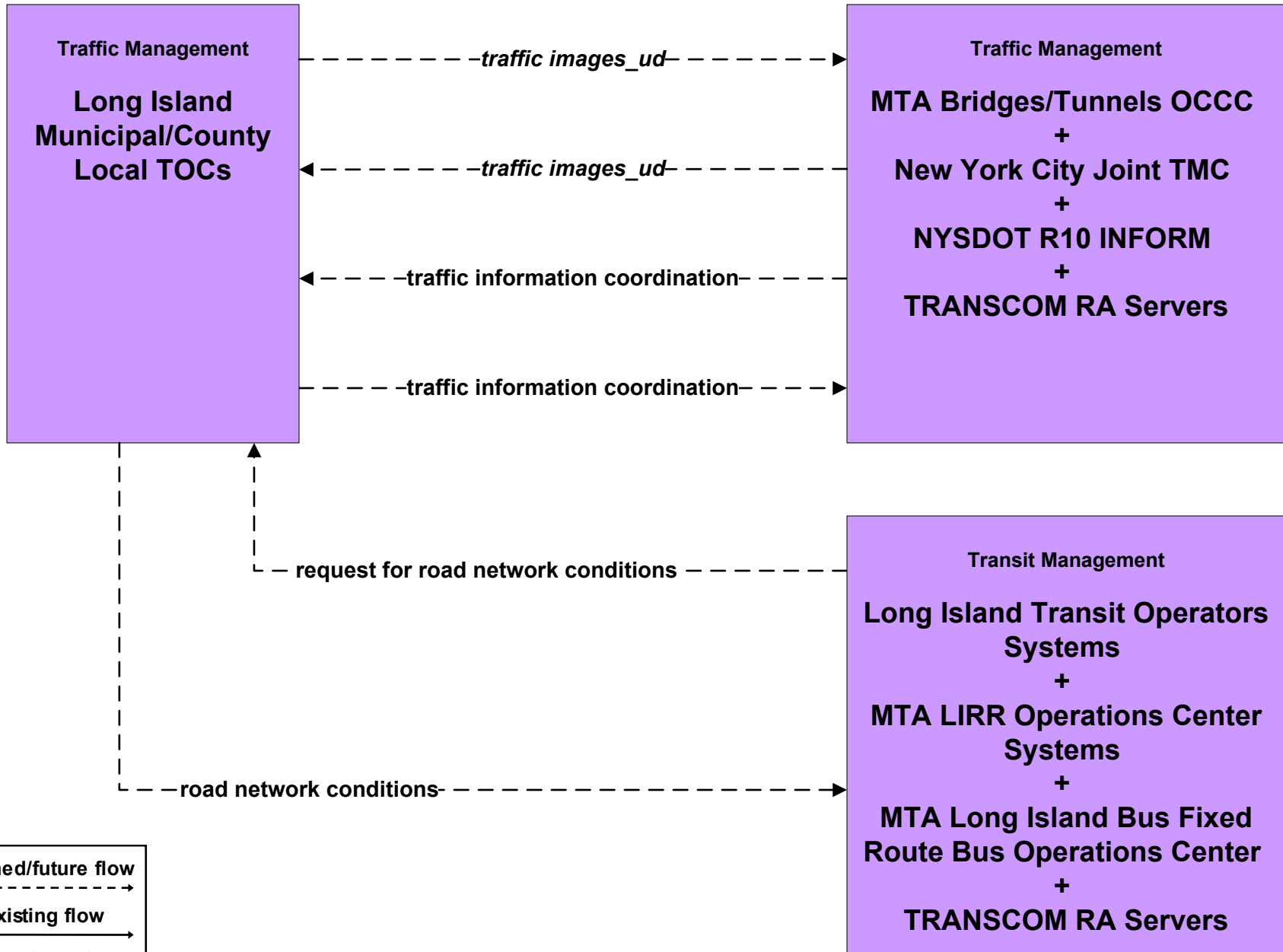
ATMS06 - Traffic Information Dissemination NYSDOT Regions



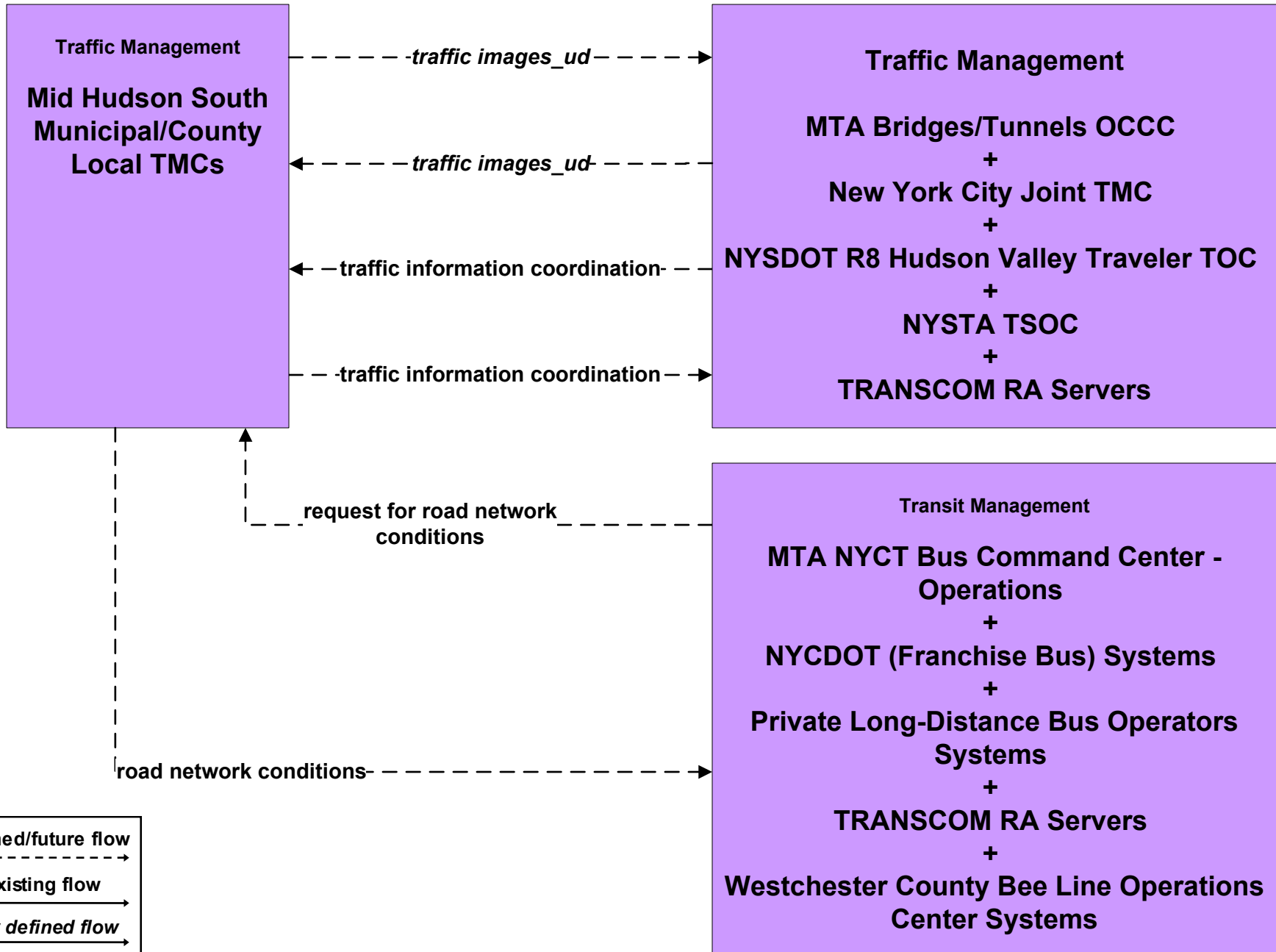
**ATMS06 - Traffic Information Dissemination
NYSTA TSO**



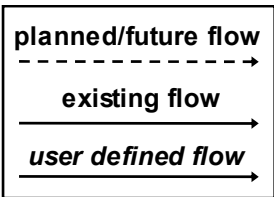
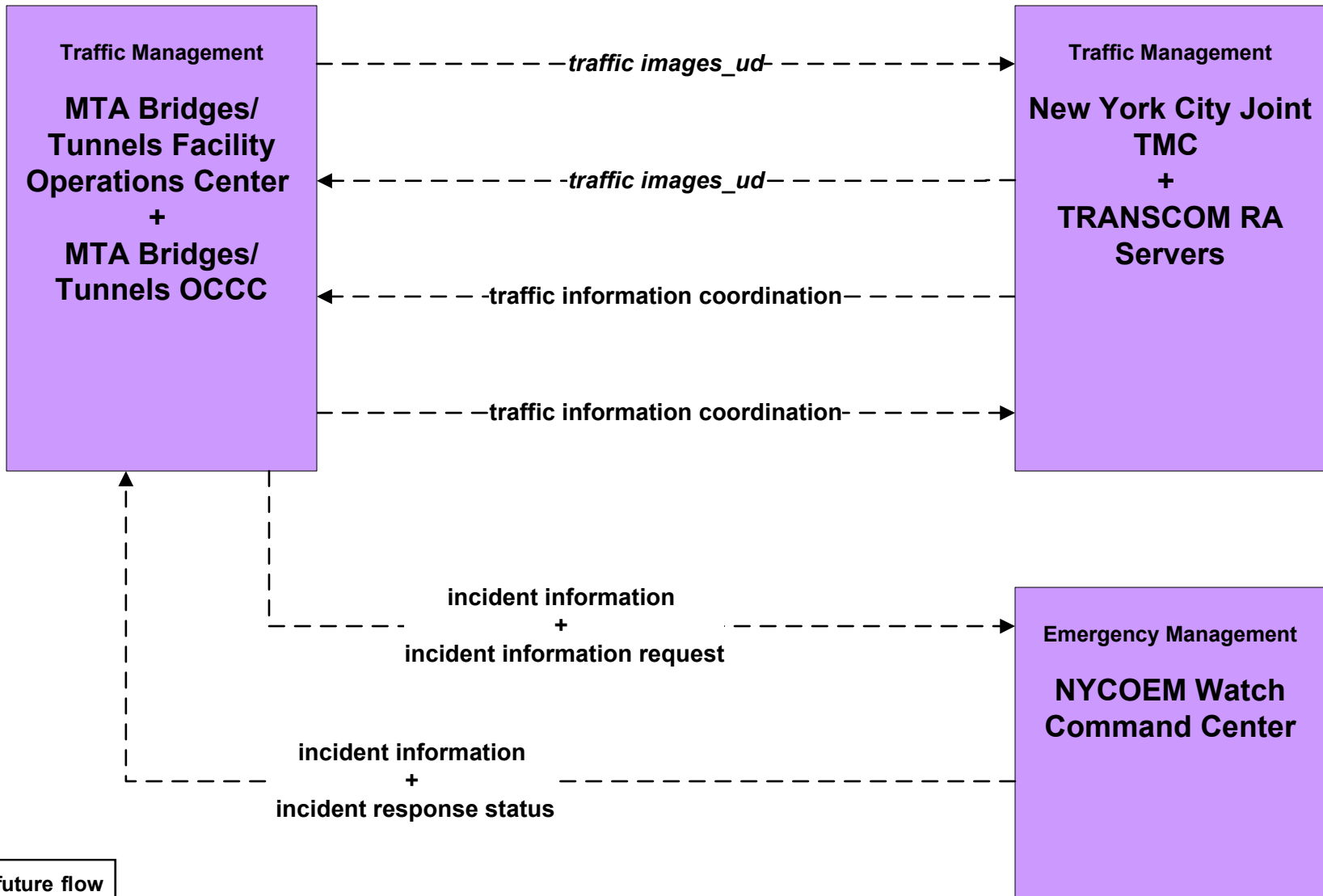
**ATMS07 - Regional Traffic Control
Long Island Municipal/County TMCs**



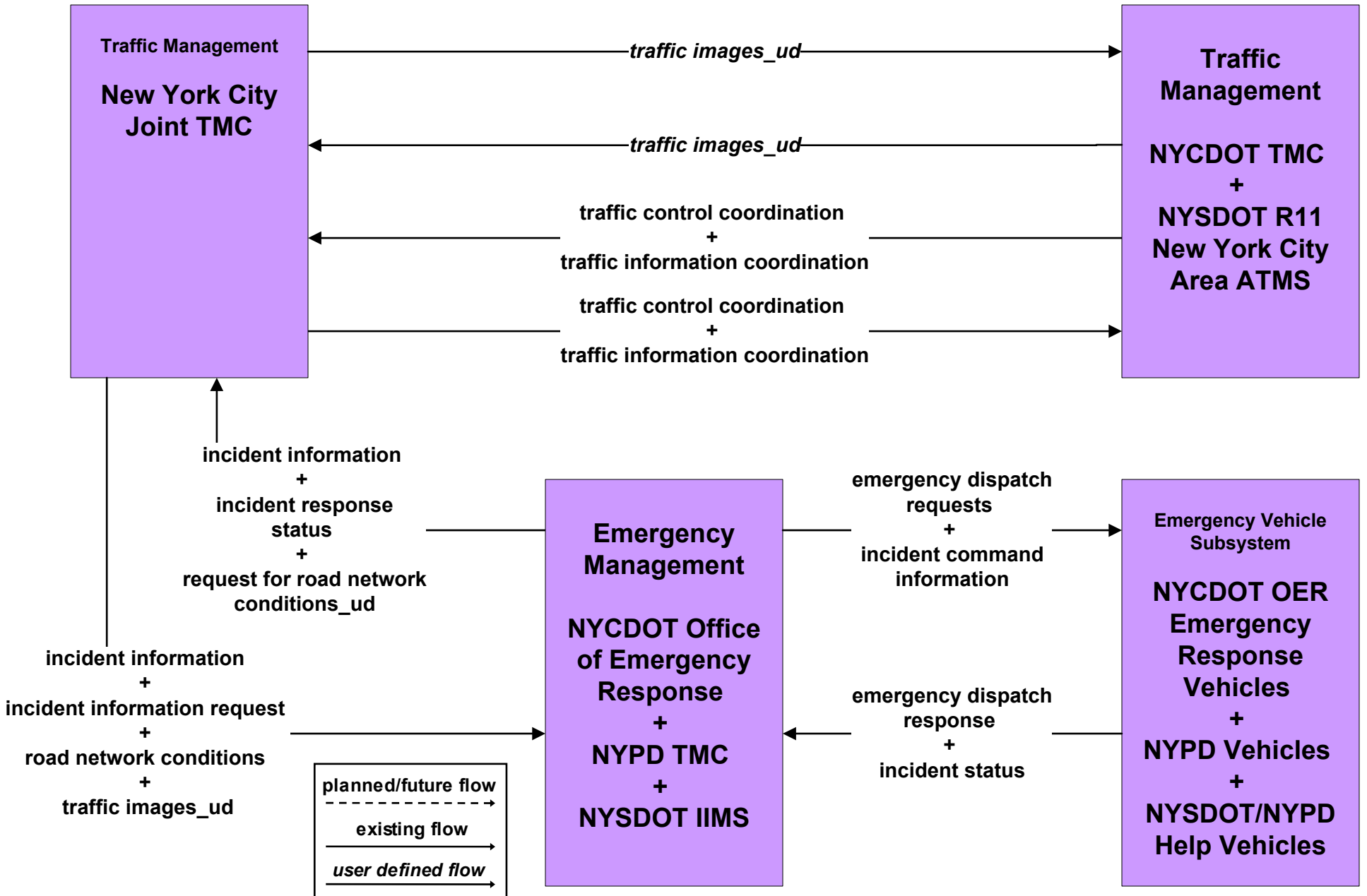
ATMS07 - Regional Traffic Control
Mid Hudson South Municipal/County TMCs



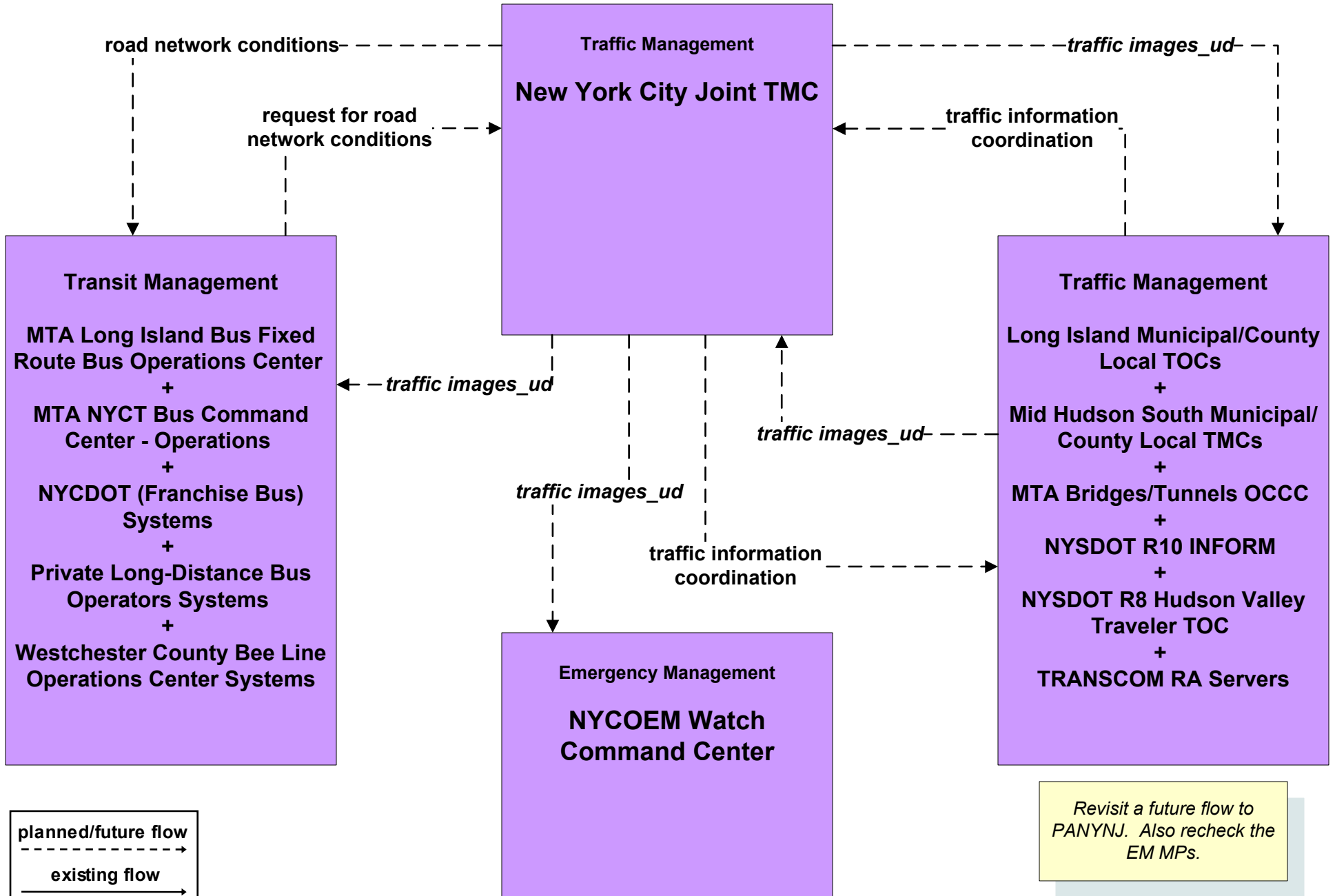
ATMS07 - Regional Traffic Control MTA Bridges and Tunnels



**ATMS07 - Regional Traffic Control
New York City Joint TMC (1 of 2)**

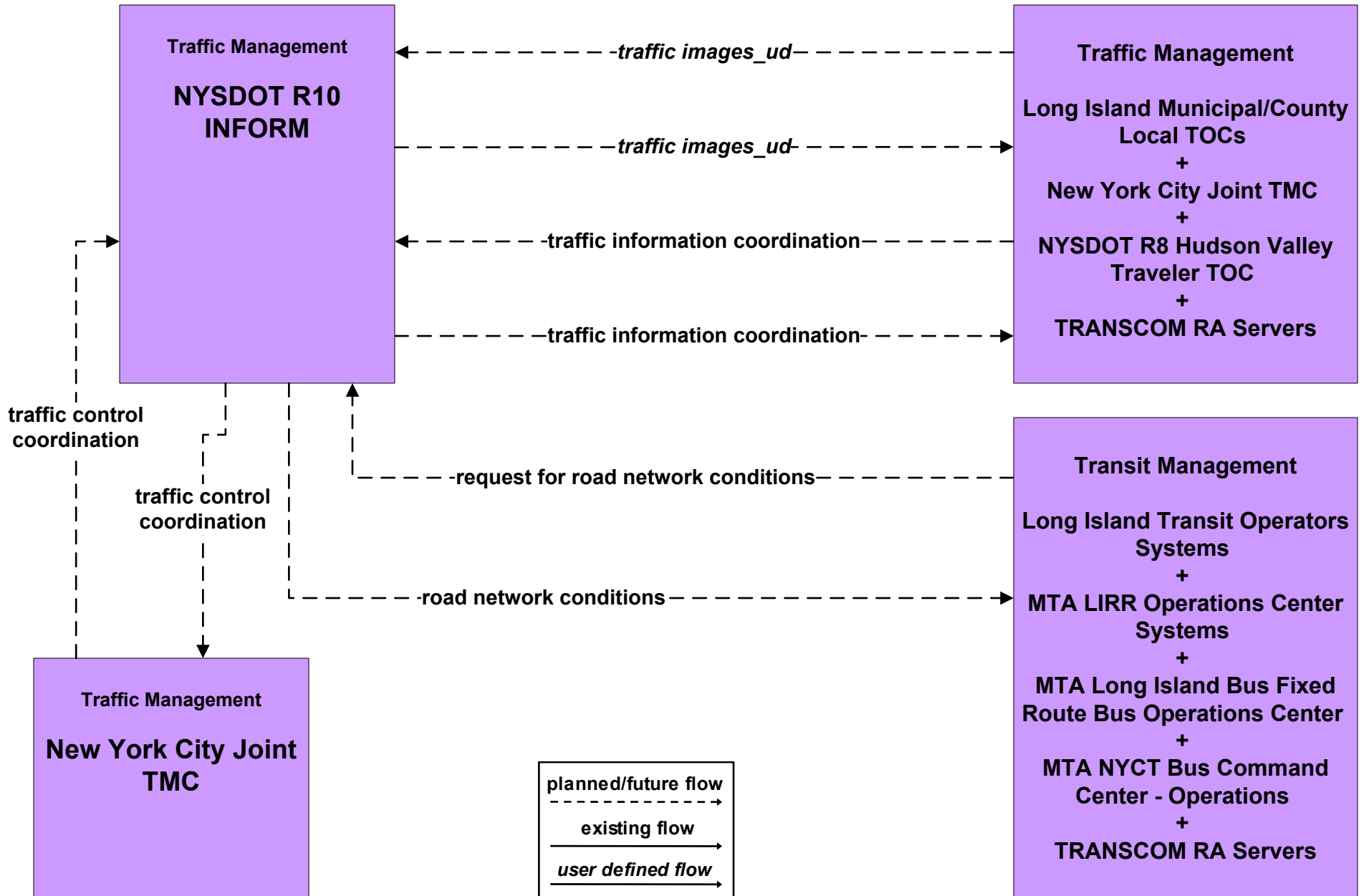


ATMS07 - Regional Traffic Control New York City Joint TMC (2 of 2)

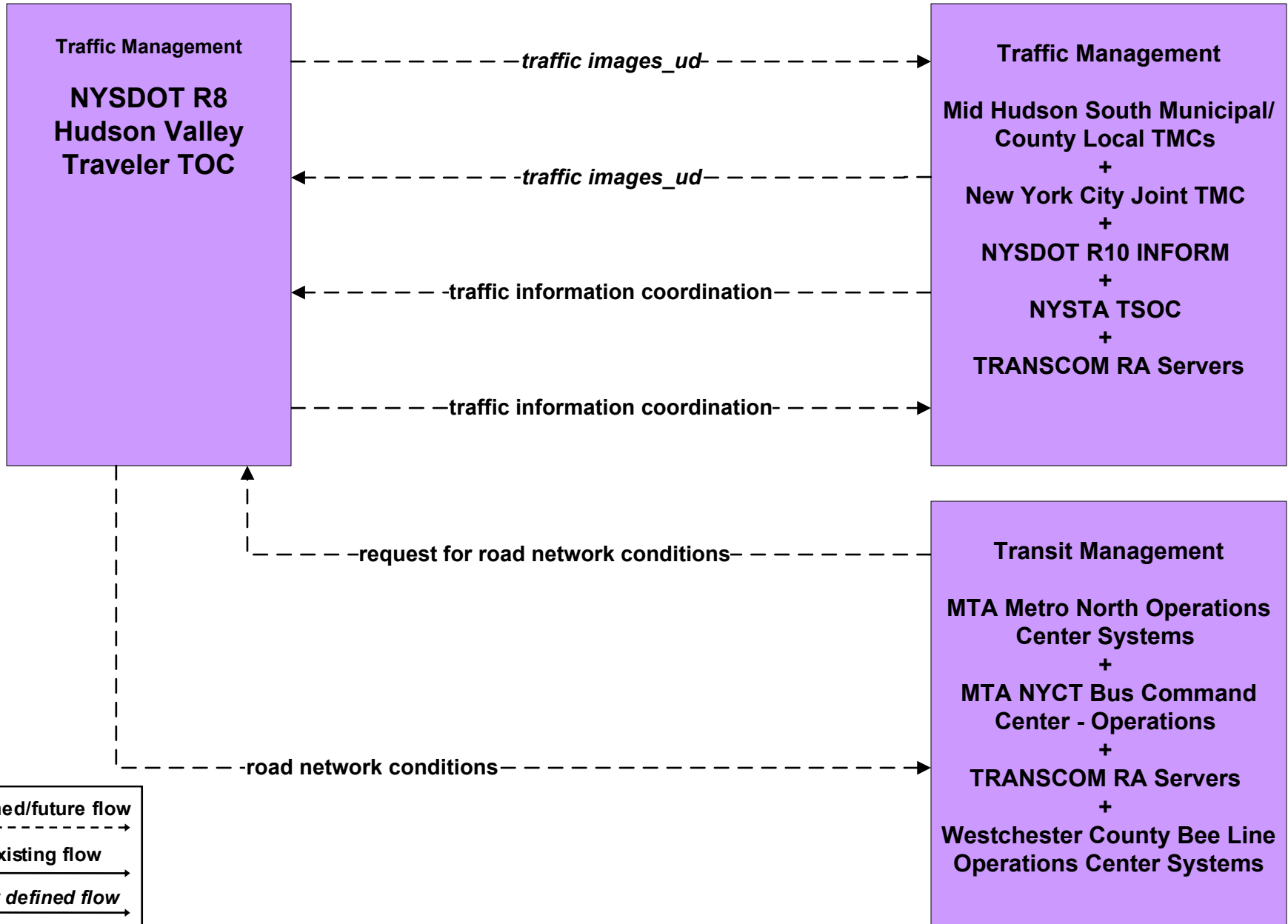


Revisit a future flow to PANYNJ. Also recheck the EM MPs.

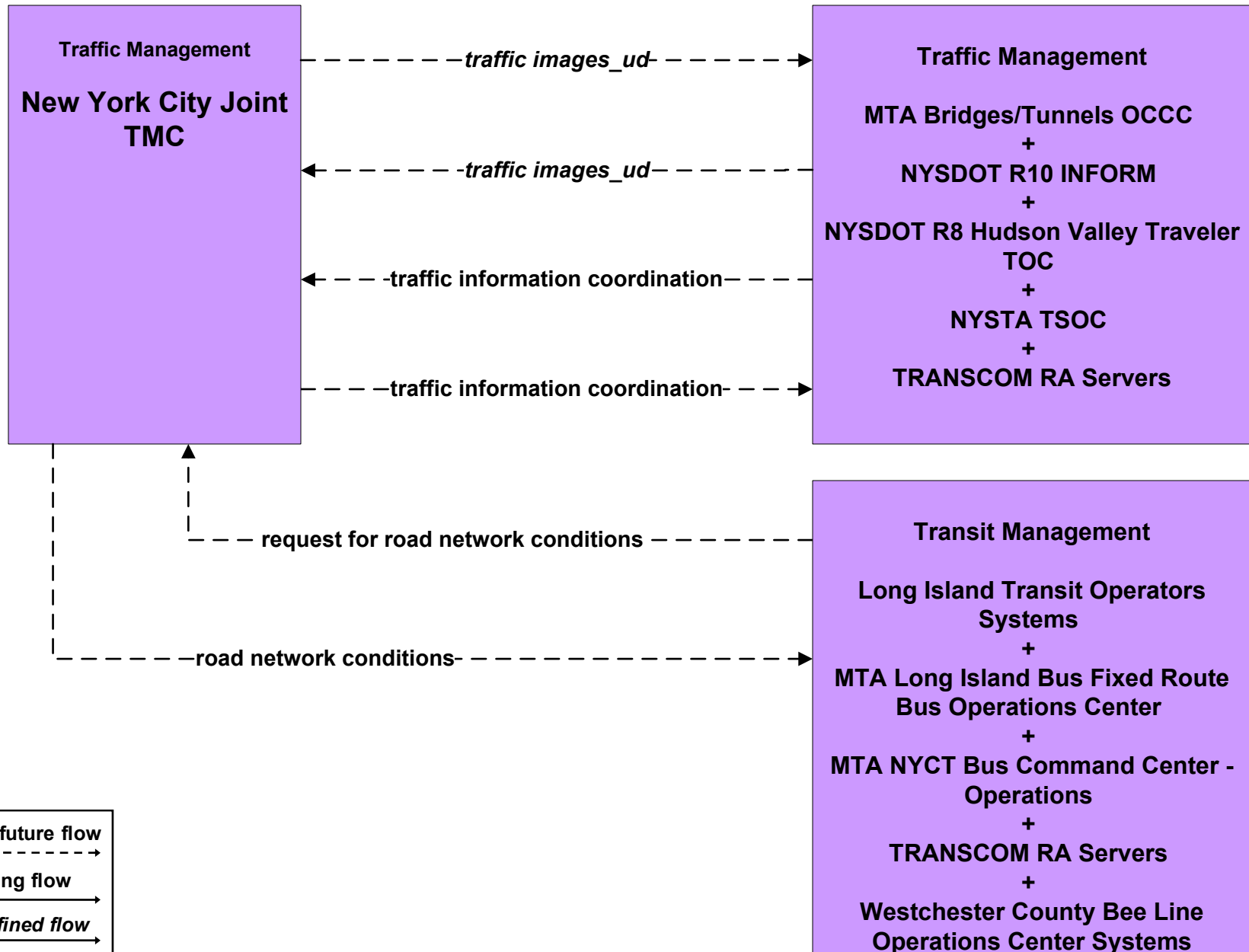
**ATMS07 - Regional Traffic Control
 NYSDOT R10 INFORM**



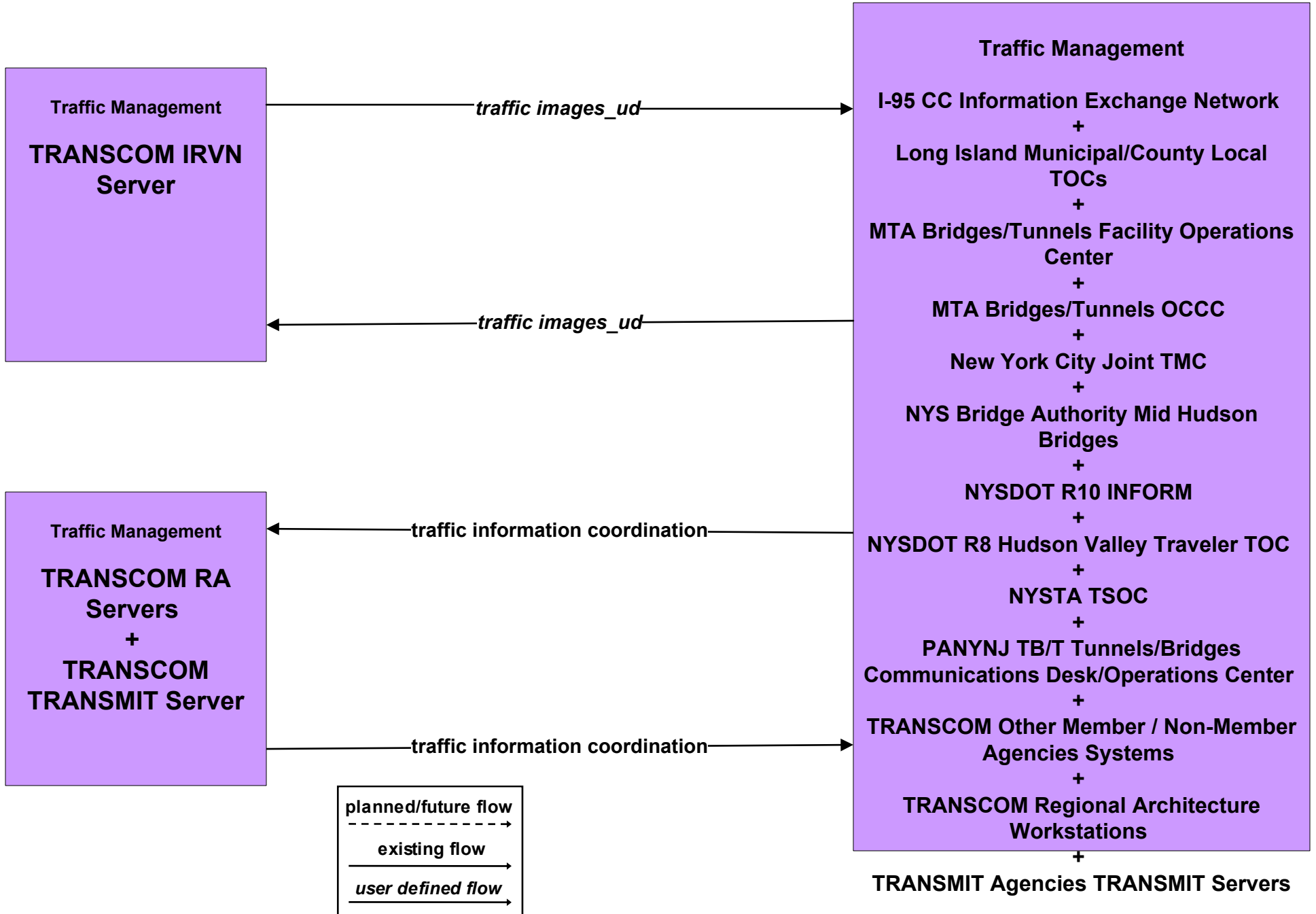
**ATMS07 - Regional Traffic Control
NYSDOT R8 Hudson Valley TMC**



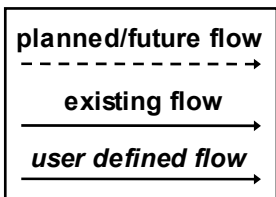
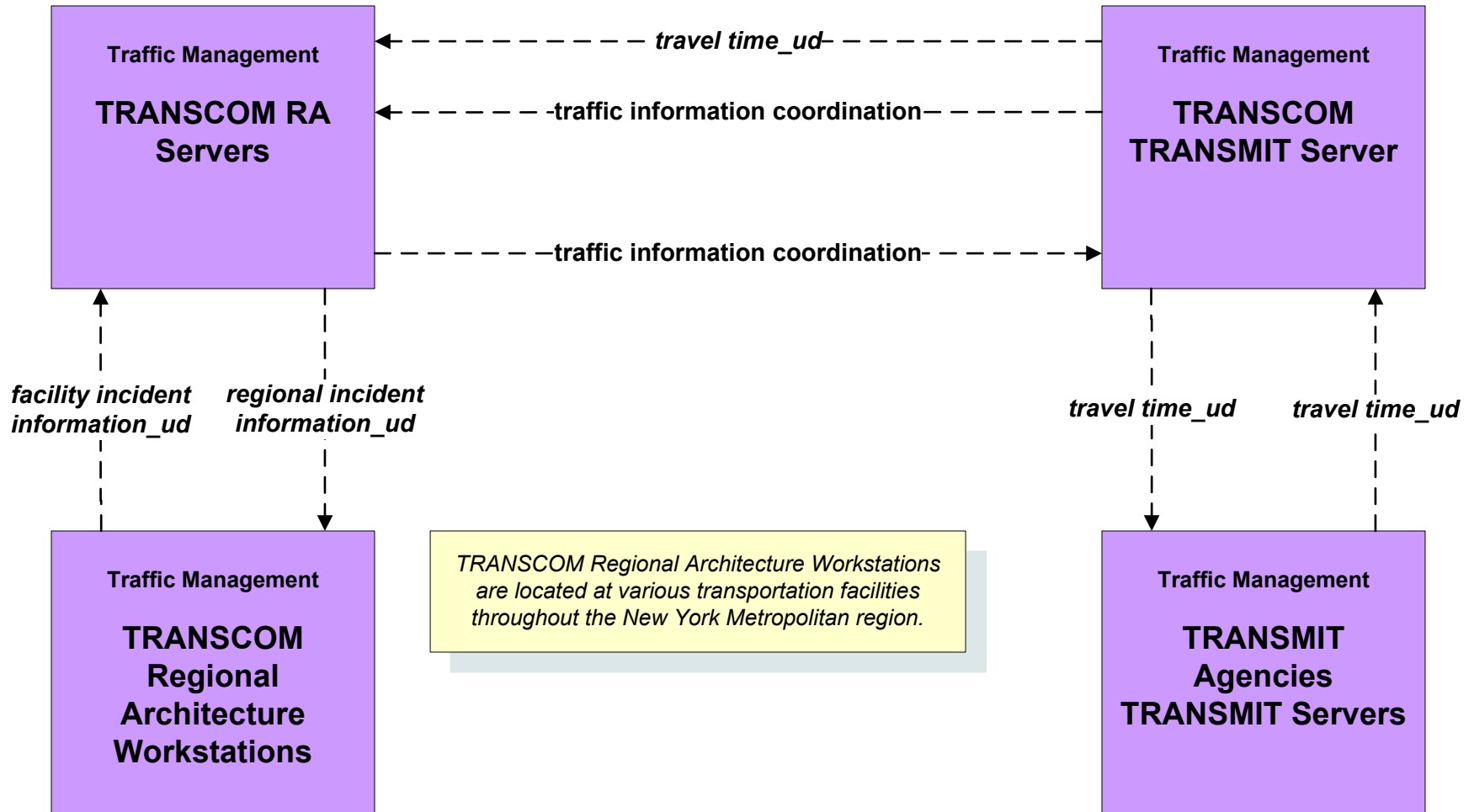
**ATMS07 - Regional Traffic Control
 NYSDOT R11 New York City ATMS**



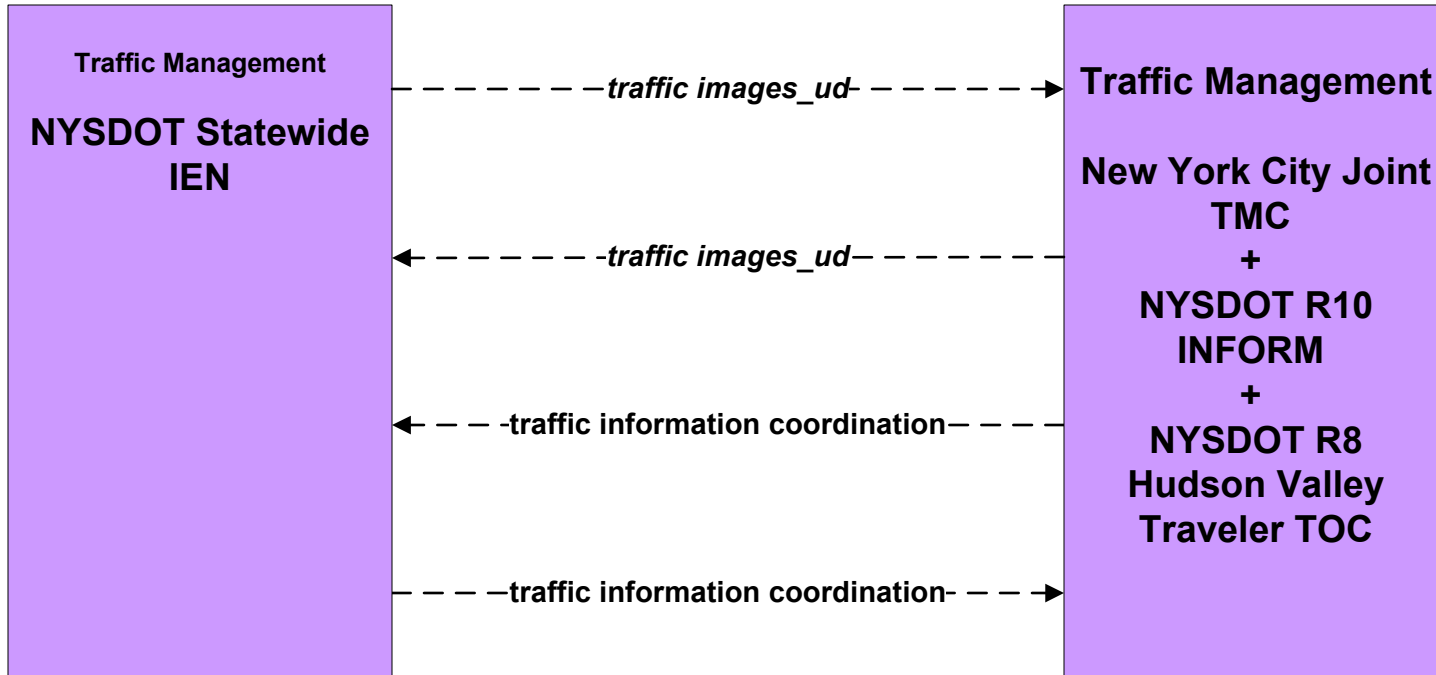
**ATMS07 - Regional Traffic Control
TRANSCOM Operations Information Center**



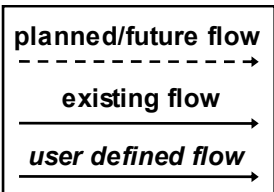
ATMS7 - Regional Traffic Control TRANSCOM



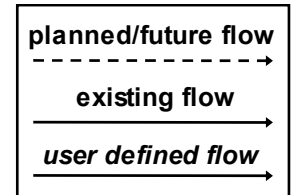
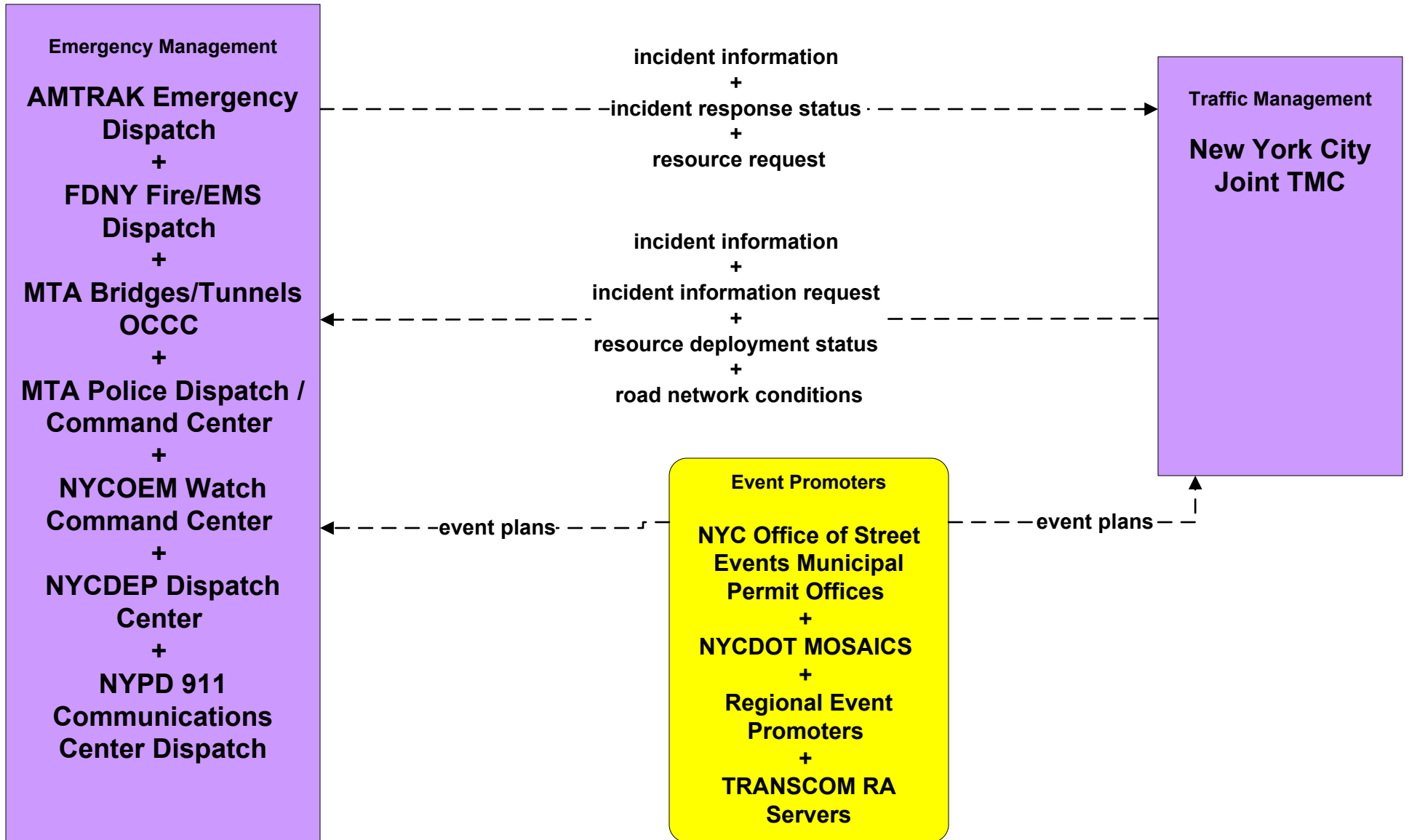
**ATMS07 - Regional Traffic Control
NYSDOT Statewide IEN**



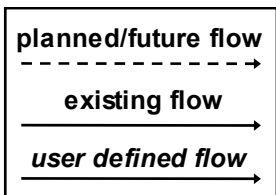
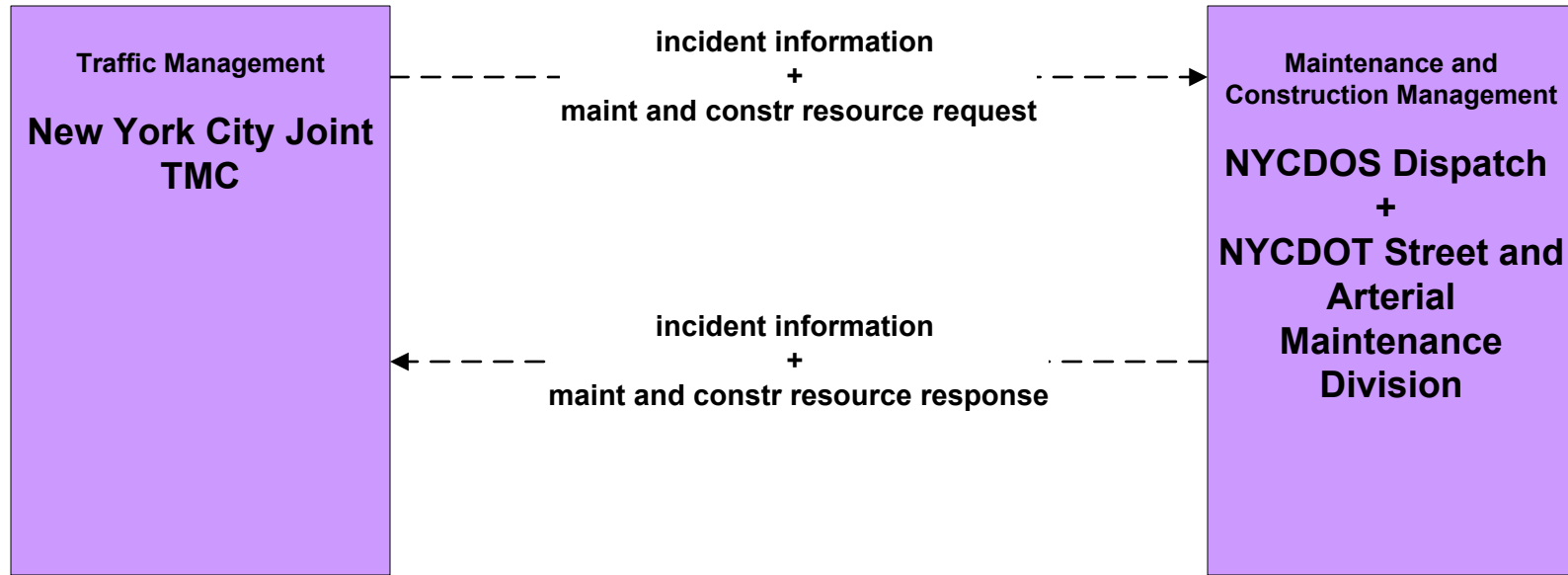
*How to model public safety network,
such as SWN (Statewide Wireless
Network) or LETS.*



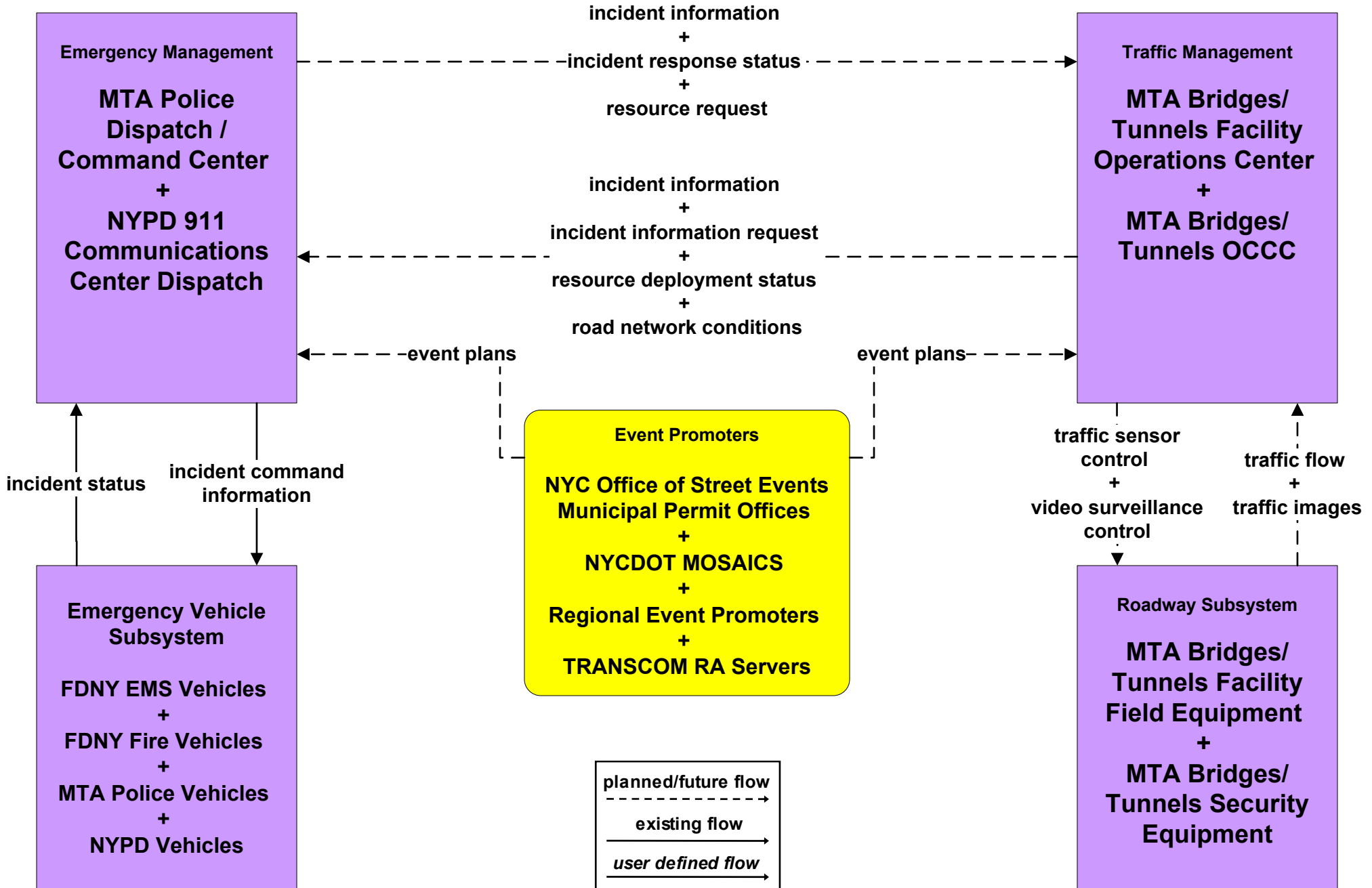
**ATMS08 - Incident Management
New York City Joint TMC (1 of 2)**



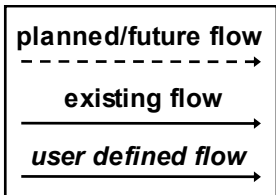
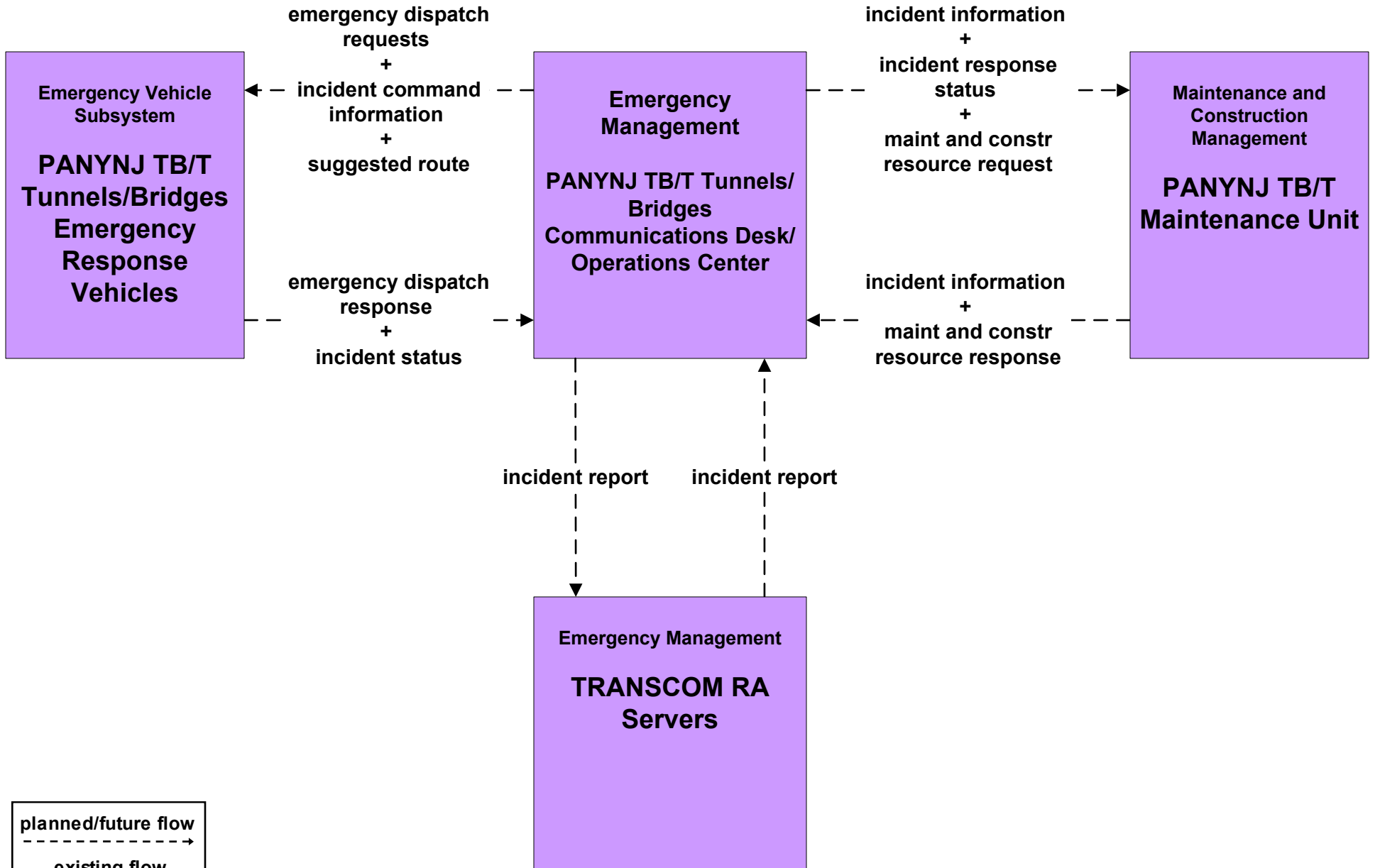
**ATMS08 - Incident Management
New York City Joint TMC (2 of 2)**



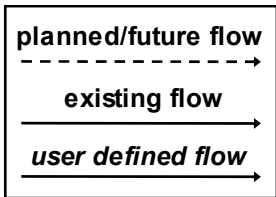
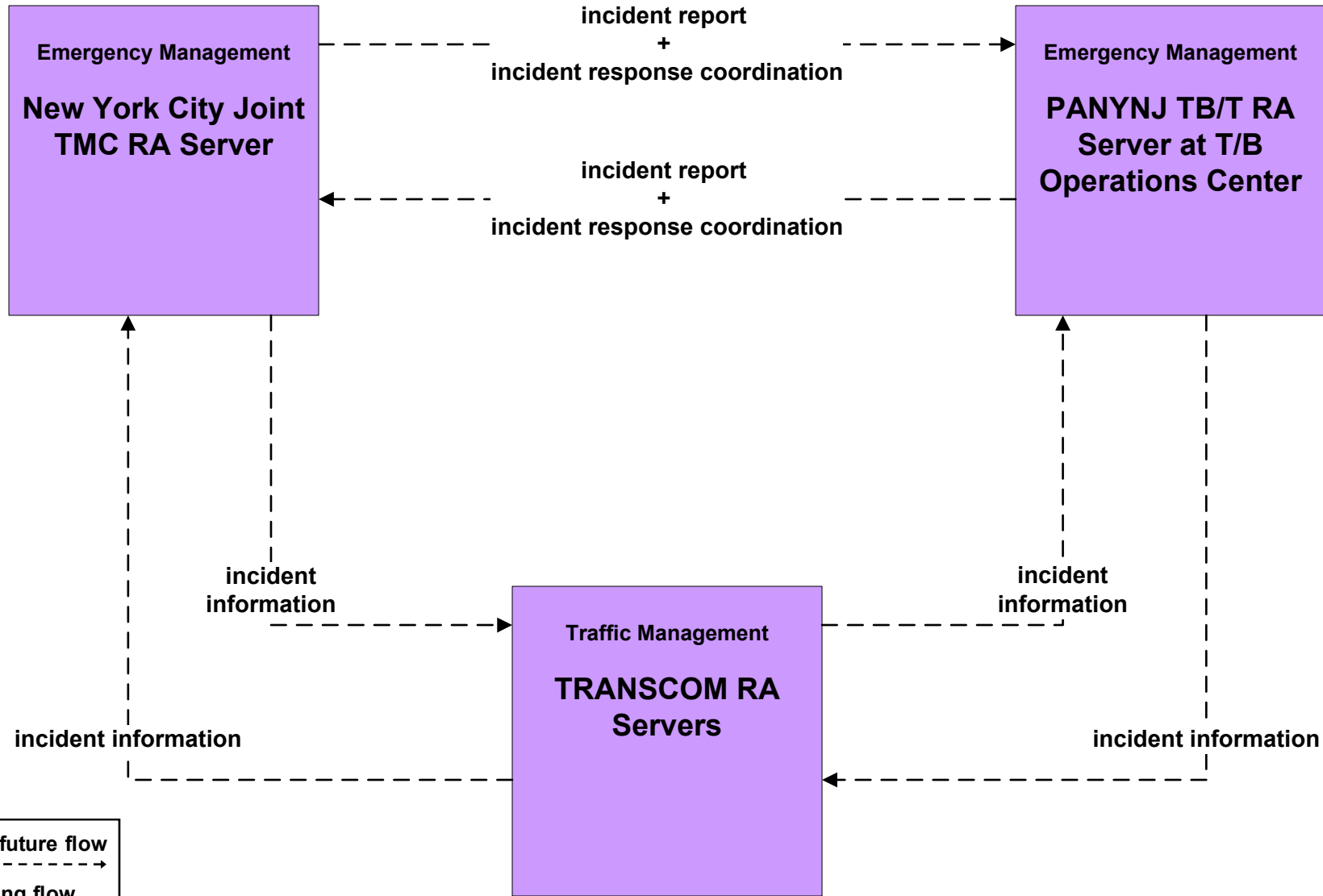
ATMS08 - Incident Management MTA Bridges and Tunnels



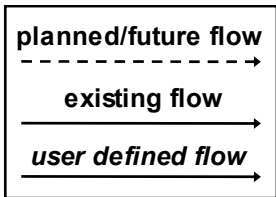
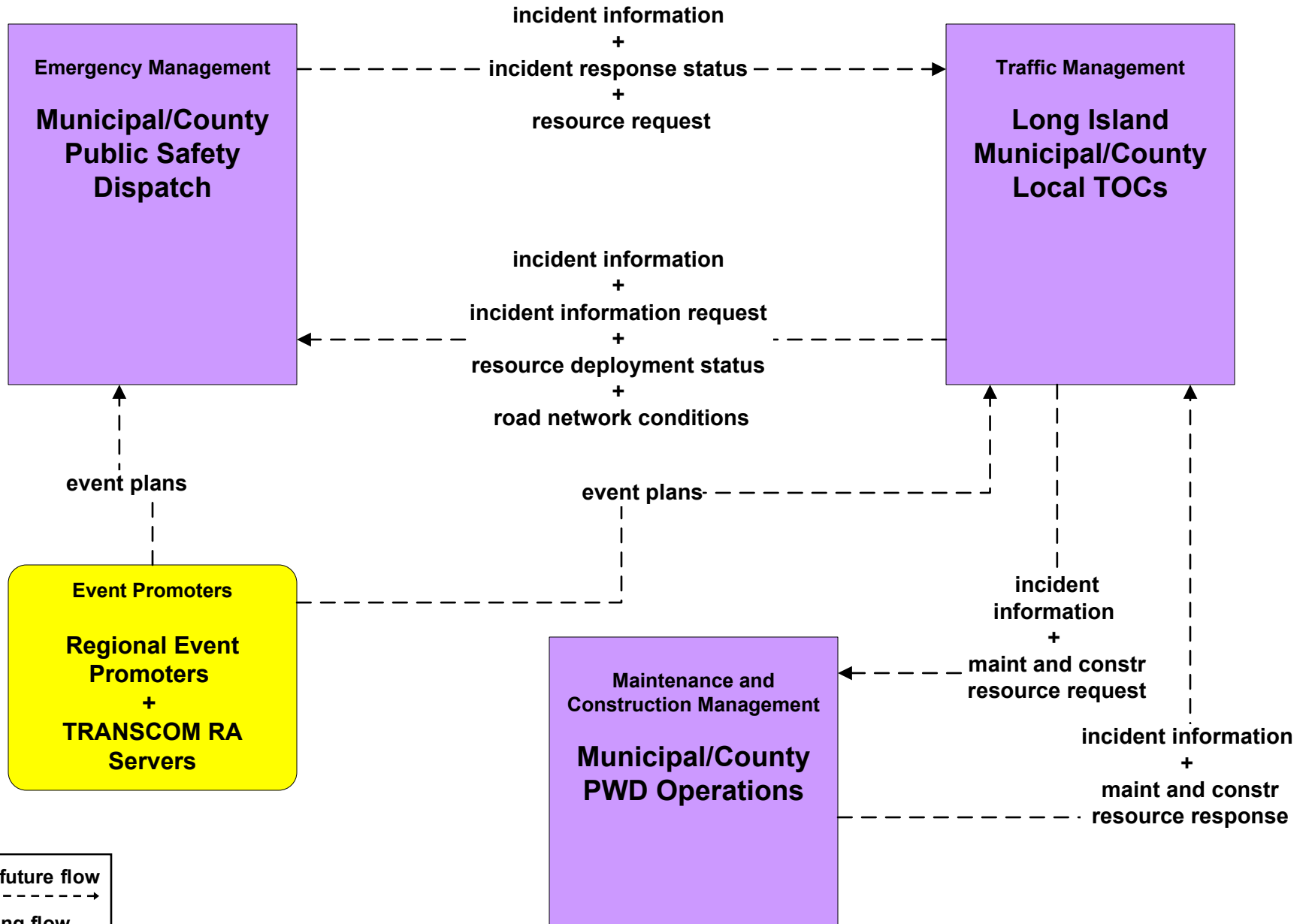
ATMS08 - Incident Management PANYNJ Tunnels/Bridges



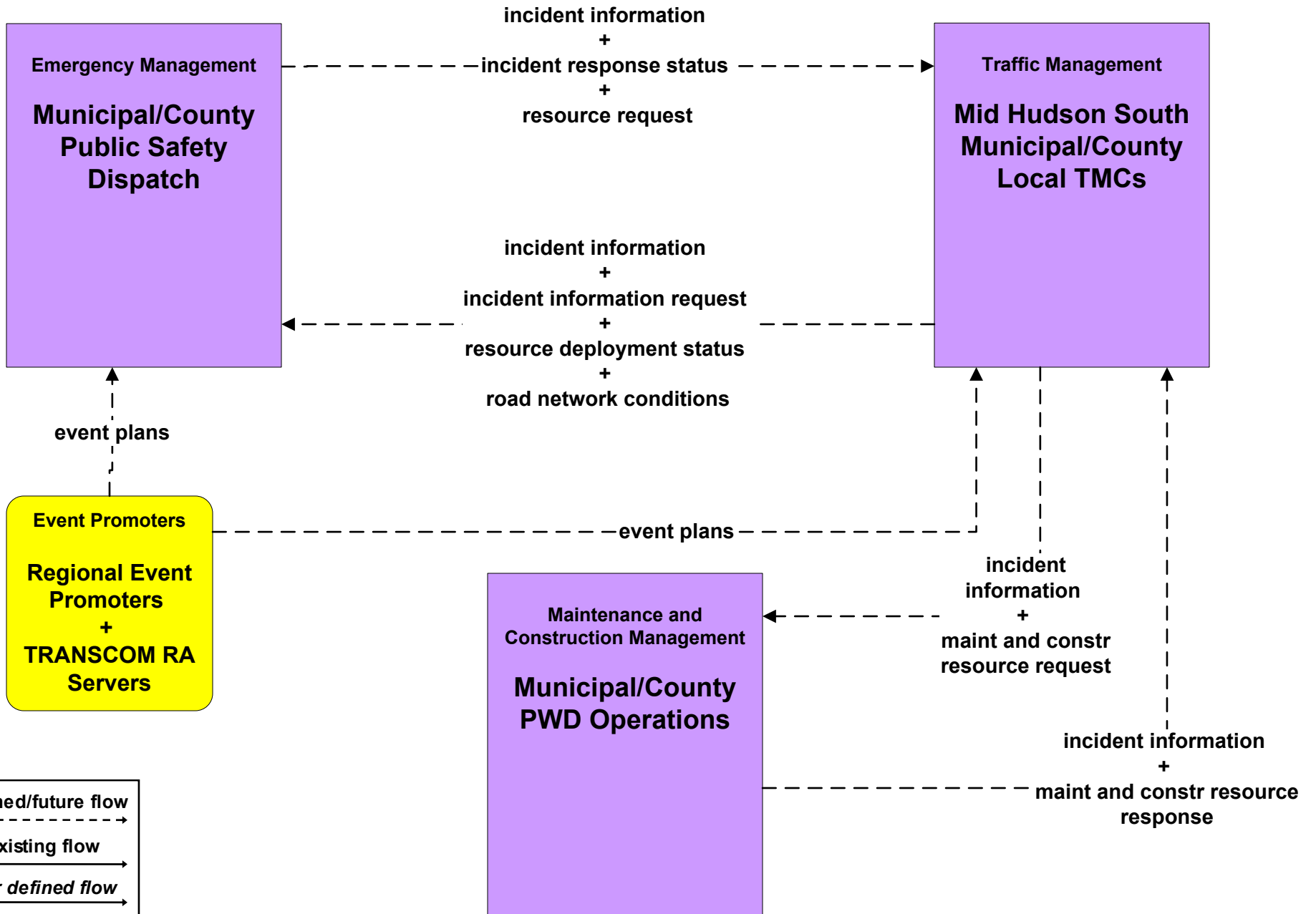
ATMS08 - Incident Management
New York City Joint TMC to PANYNJ TB&T Tunnels/Bridges



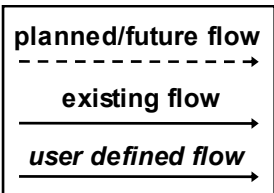
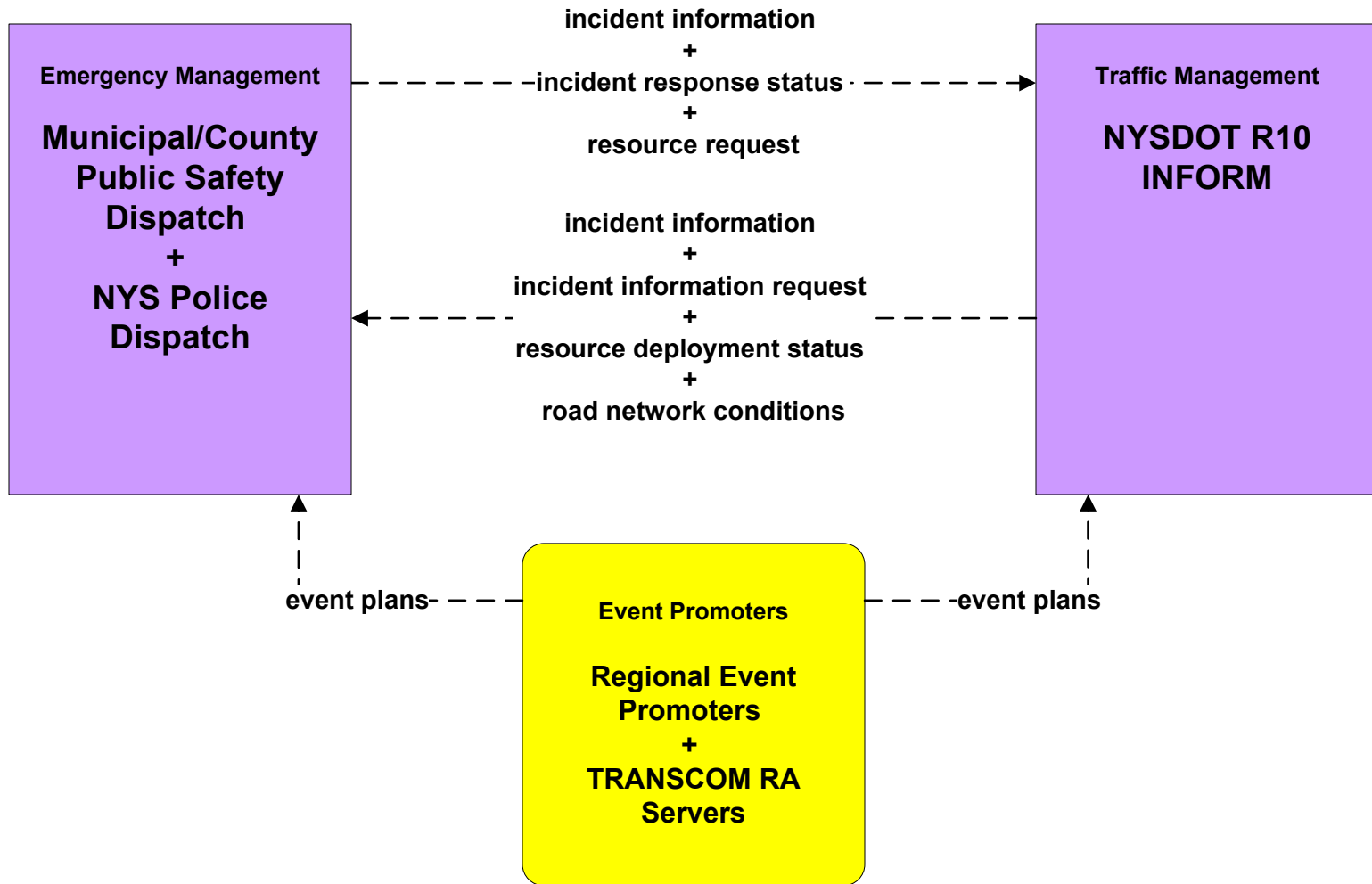
ATMS08 - Incident Management Long Island Municipal/County TMCs



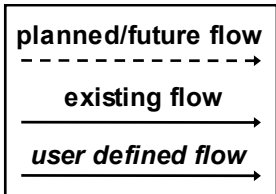
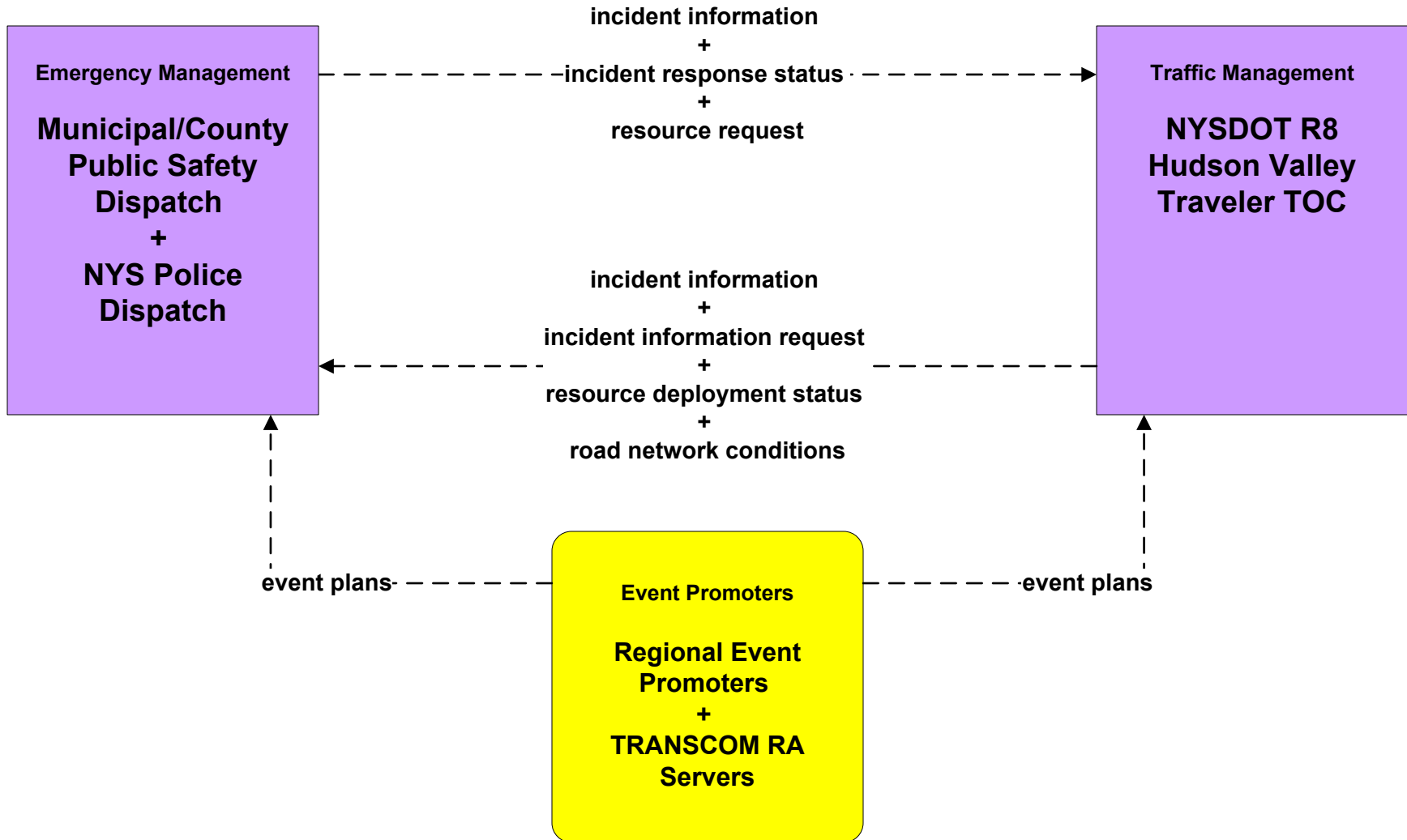
ATMS08 - Incident Management Mid Hudson Municipal/County TMCs



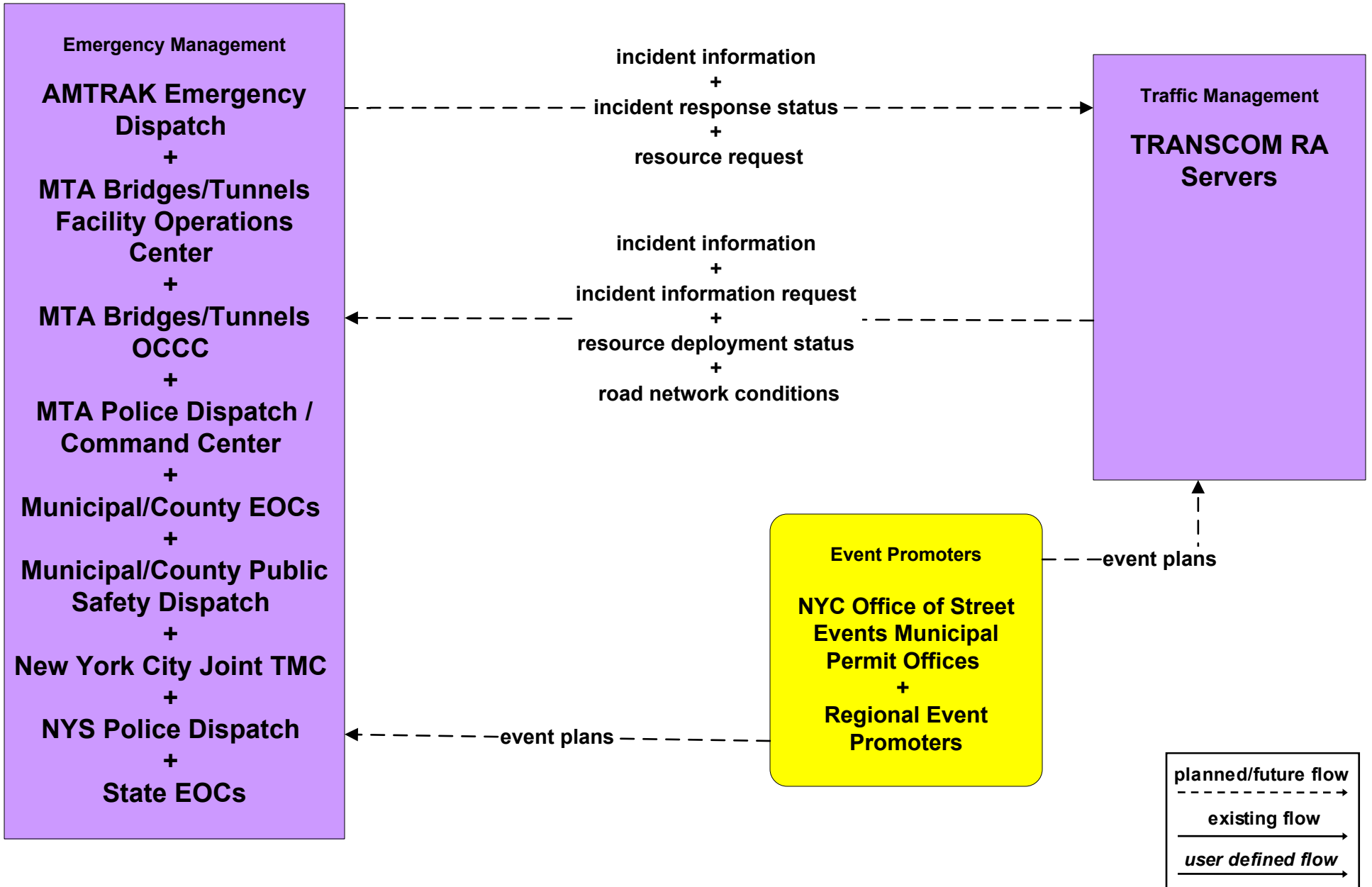
ATMS08 - Incident Management NYSDOT R10 INFORM



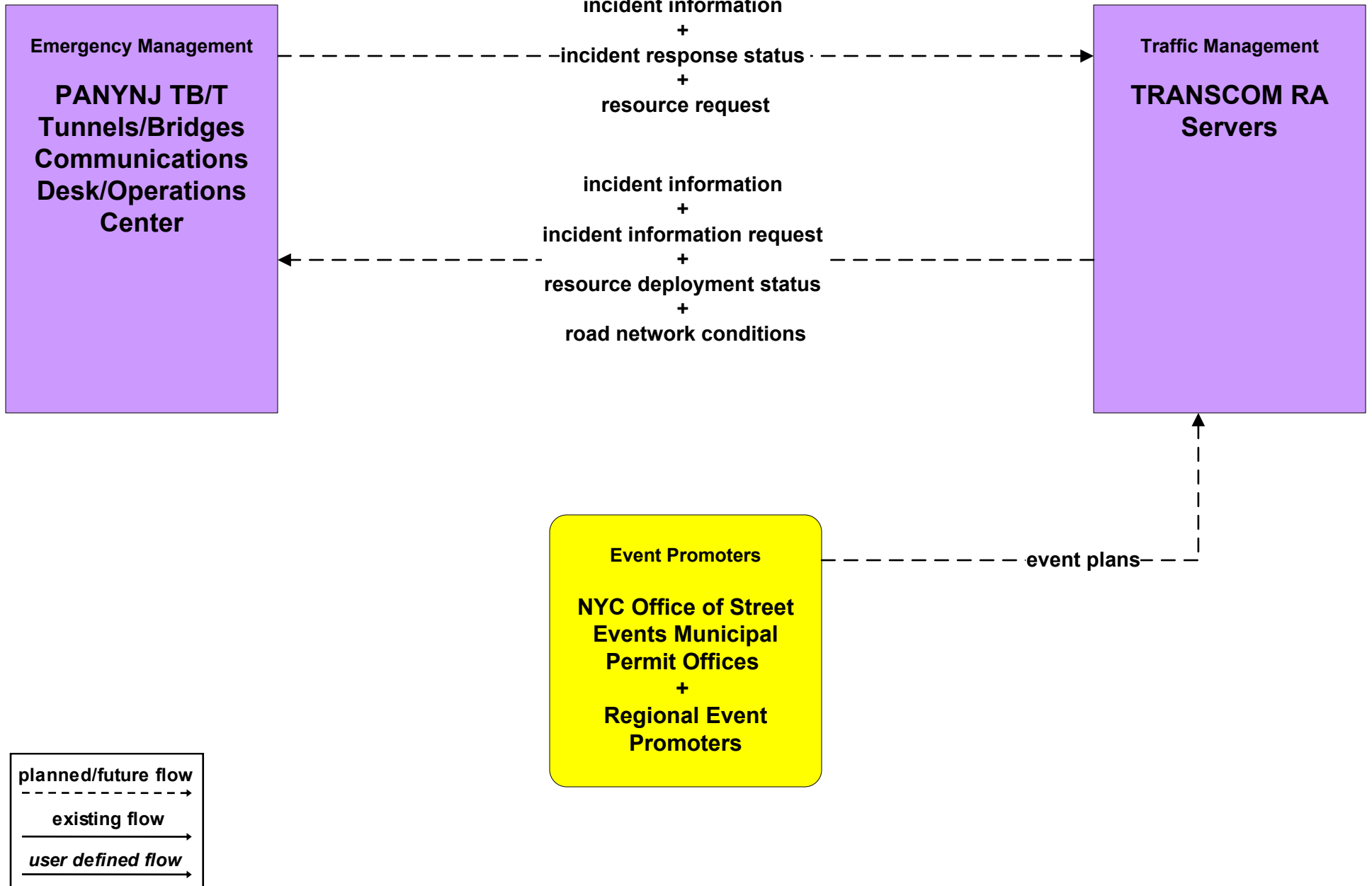
**ATMS08 - Incident Management
NYSDOT R8 Hudson Valley Traveler TOC**



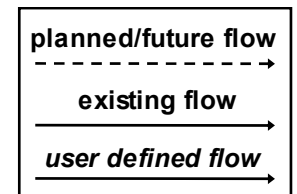
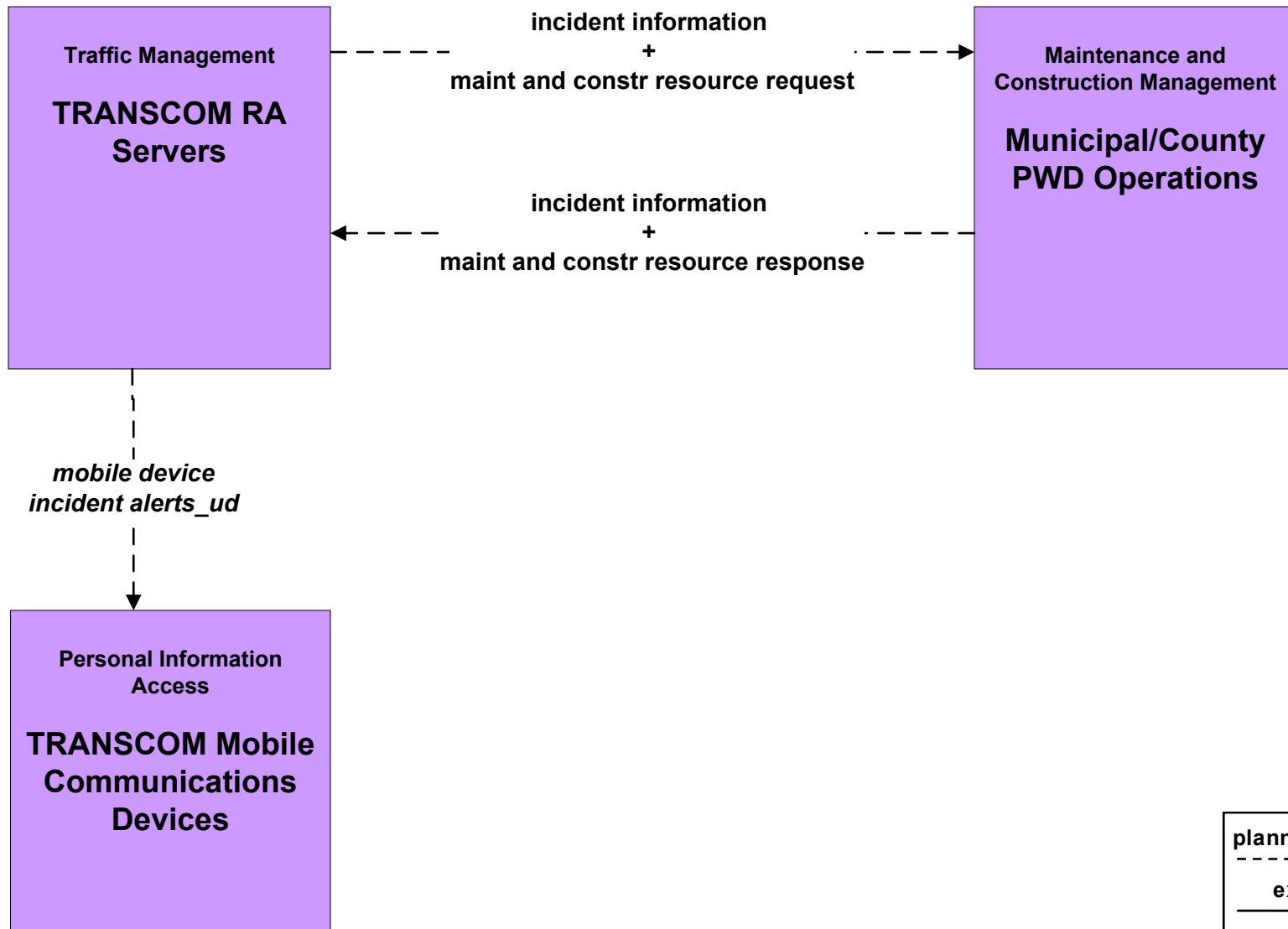
**ATMS08 - Incident Management
TRANSCOM OIC (1 of 3)**



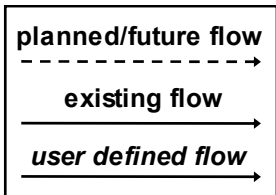
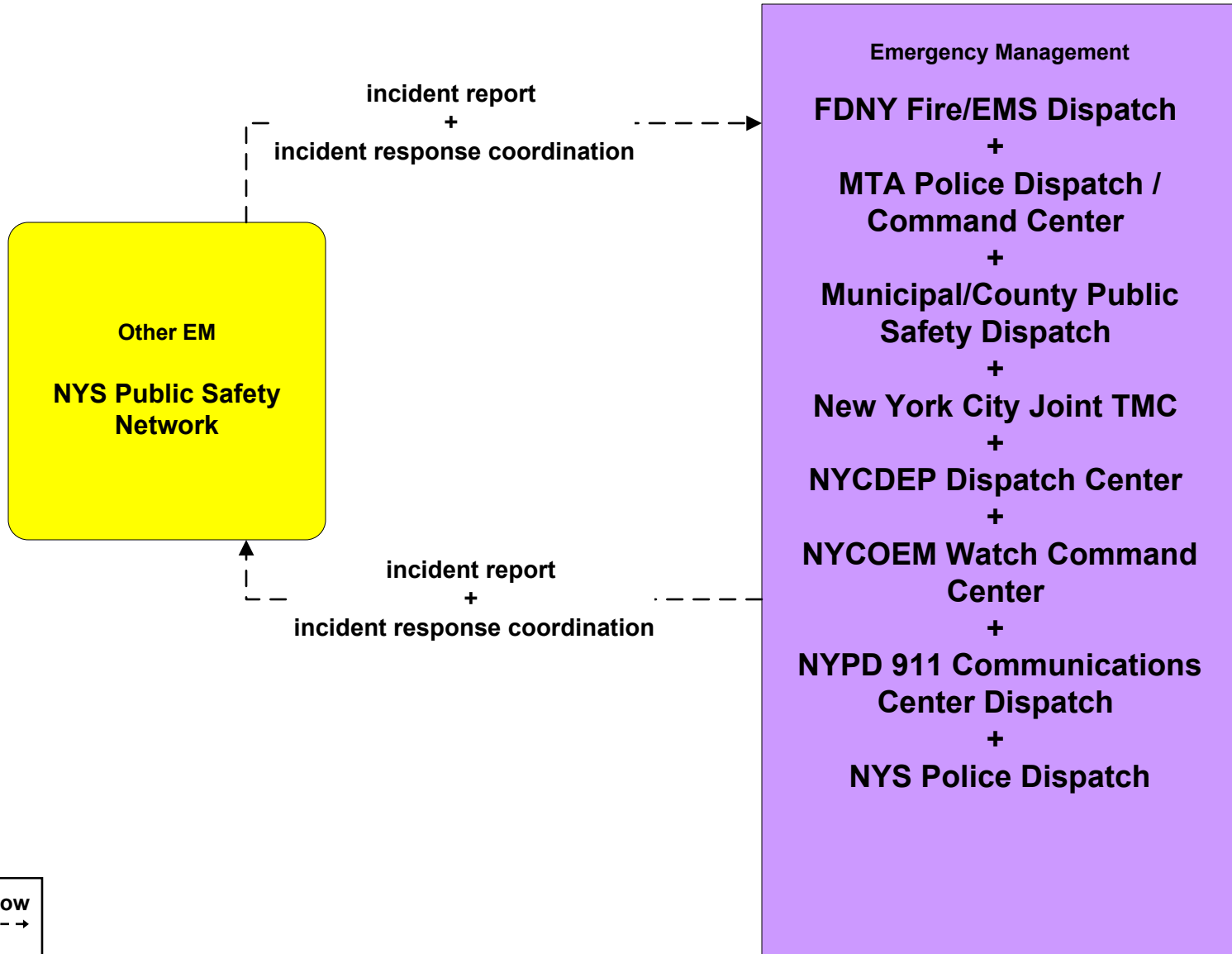
**ATMS08 - Incident Management
TRANSCOM OIC (2 of 3)**



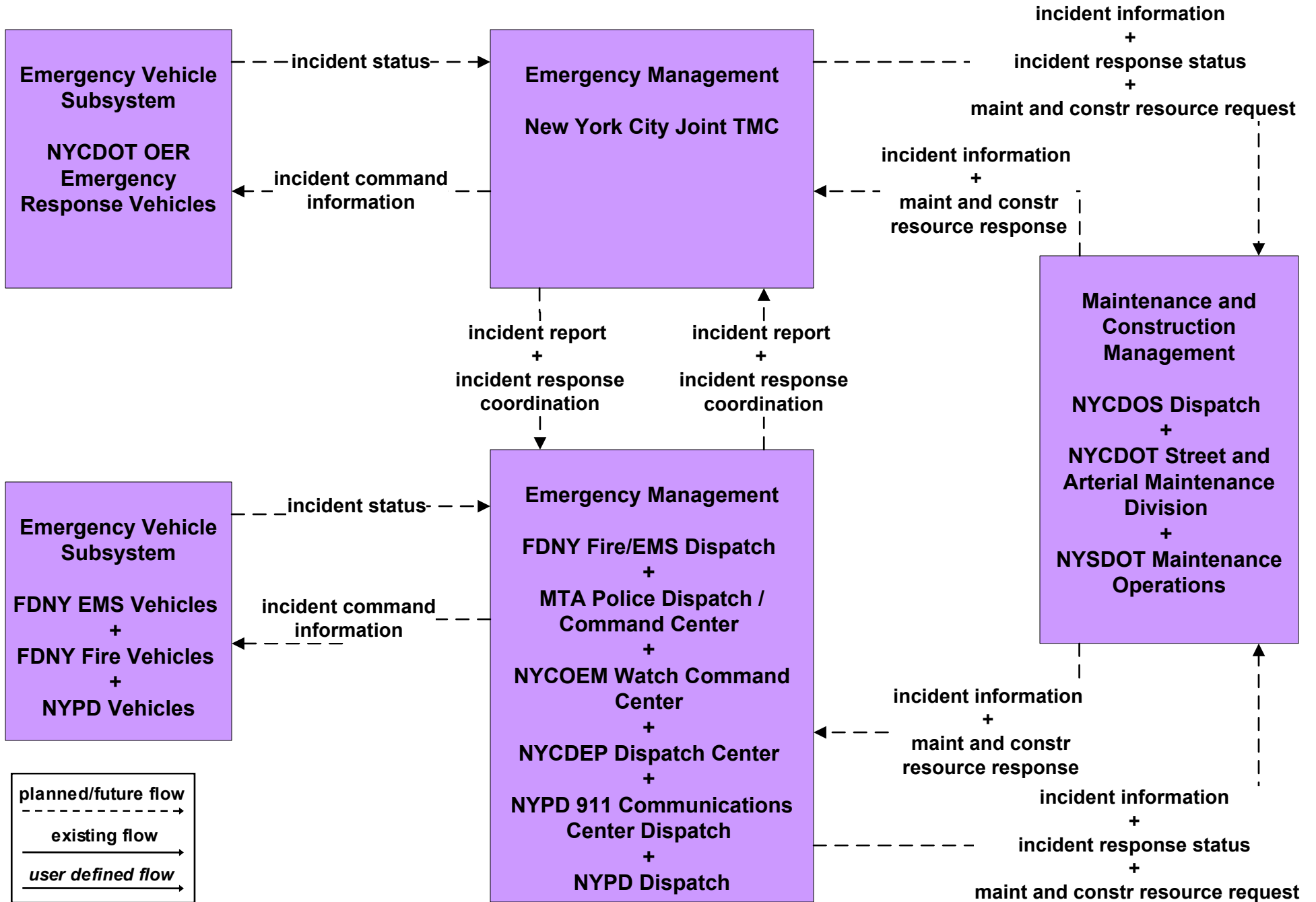
**ATMS08 - Incident Management
TRANSCOM OIC (3 of 3)**



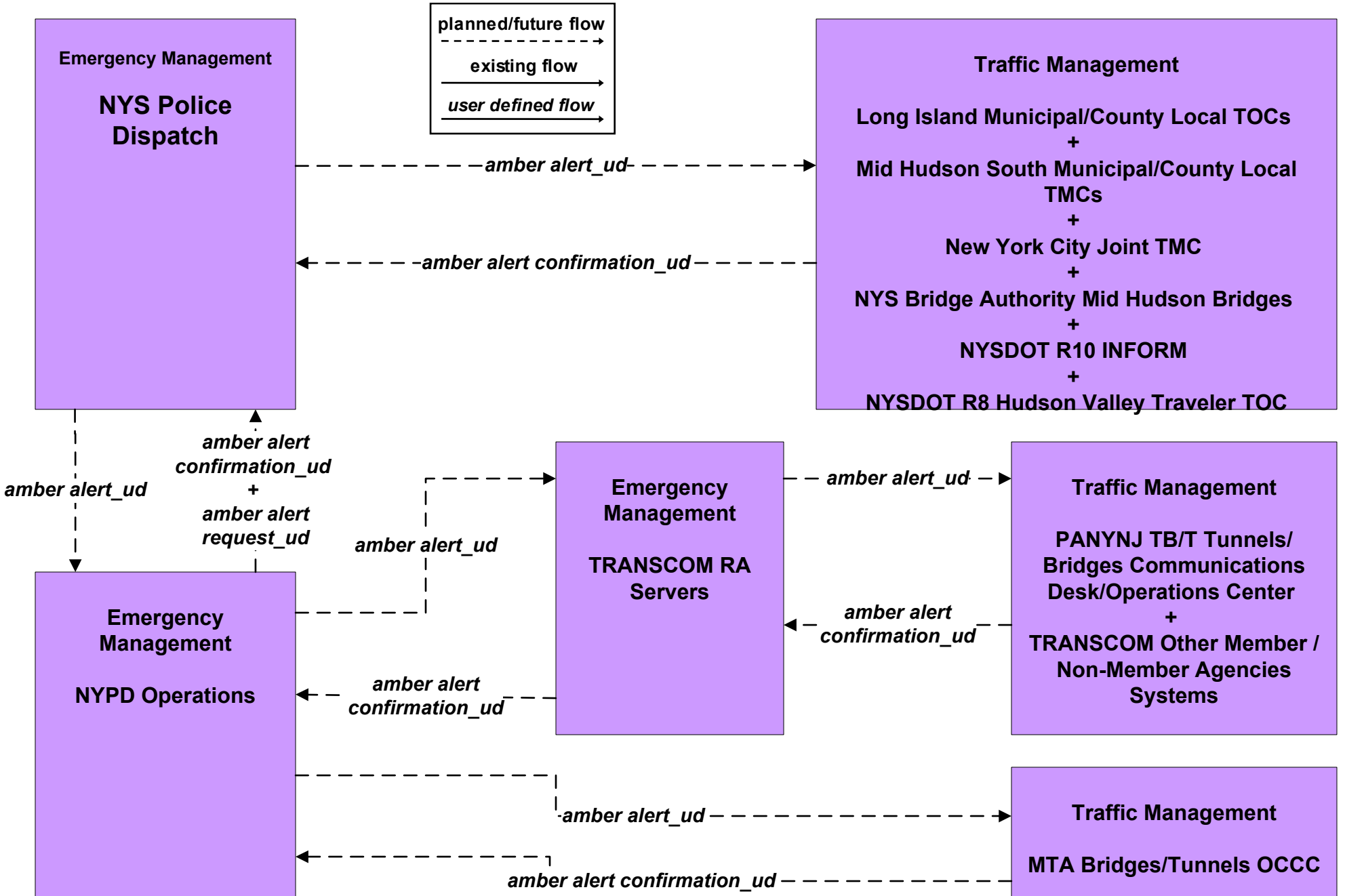
**ATMS08 - Incident Management
New York State Public Safety Network**



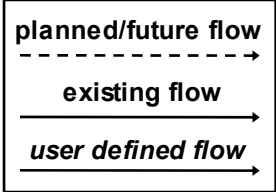
ATMS08 - Incident Management IIMS



ATMS08 - Incident Management Amber Alert



ATMS10 - Electronic Toll Collection InterAgency Group (IAG)



DMV
State Departments of Motor Vehicles

Toll violations only

Toll violations only

Fleet and Freight Management
Private Commercial Vehicle and Fleet Dispatch
+
Private Travelers Personal Computing Devices

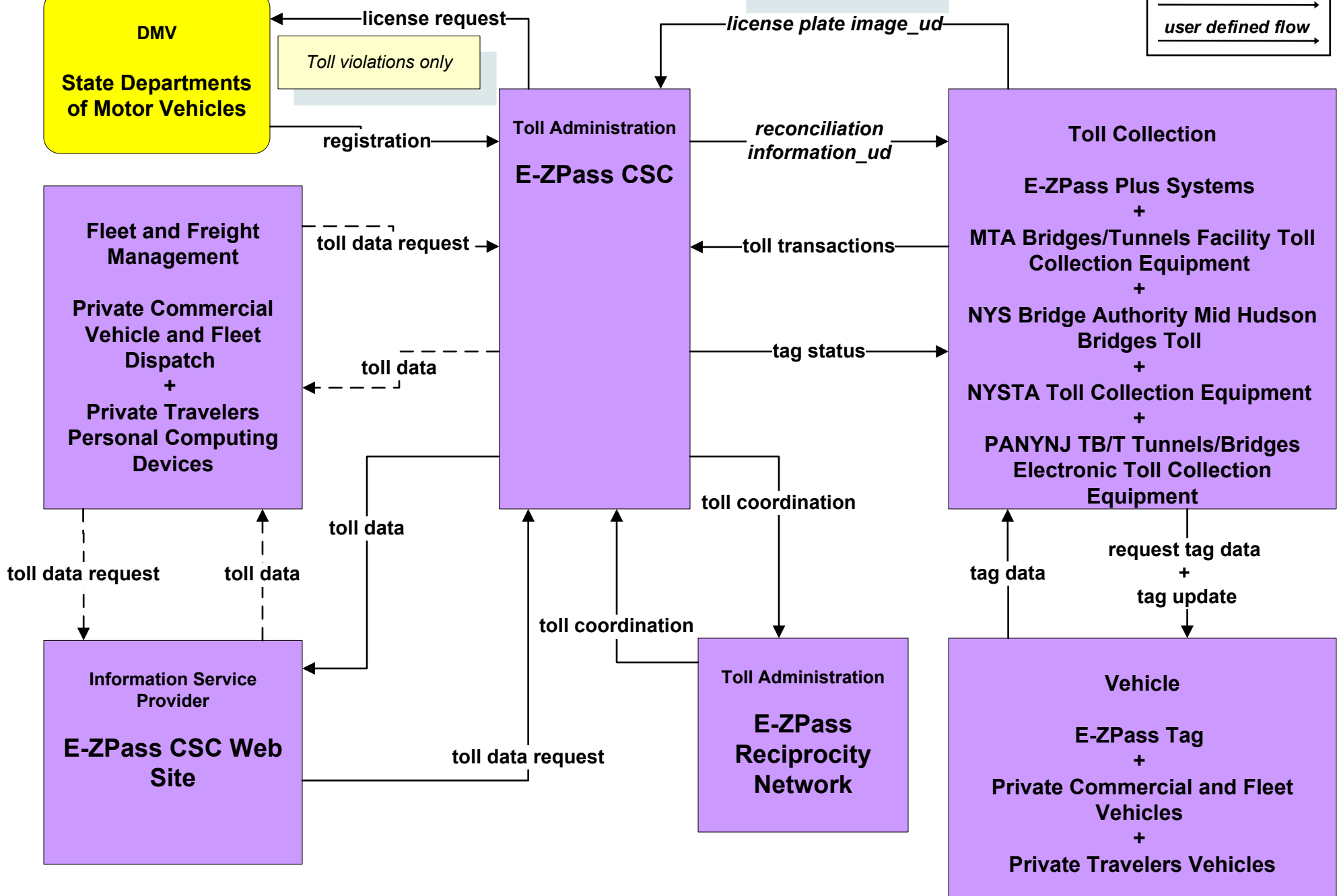
Toll Administration
E-ZPass CSC

Toll Collection
E-ZPass Plus Systems
+
MTA Bridges/Tunnels Facility Toll Collection Equipment
+
NYS Bridge Authority Mid Hudson Bridges Toll
+
NYSTA Toll Collection Equipment
+
PANYNJ TB/T Tunnels/Bridges Electronic Toll Collection Equipment

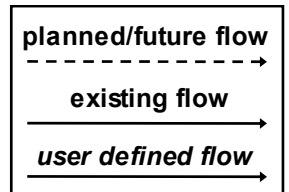
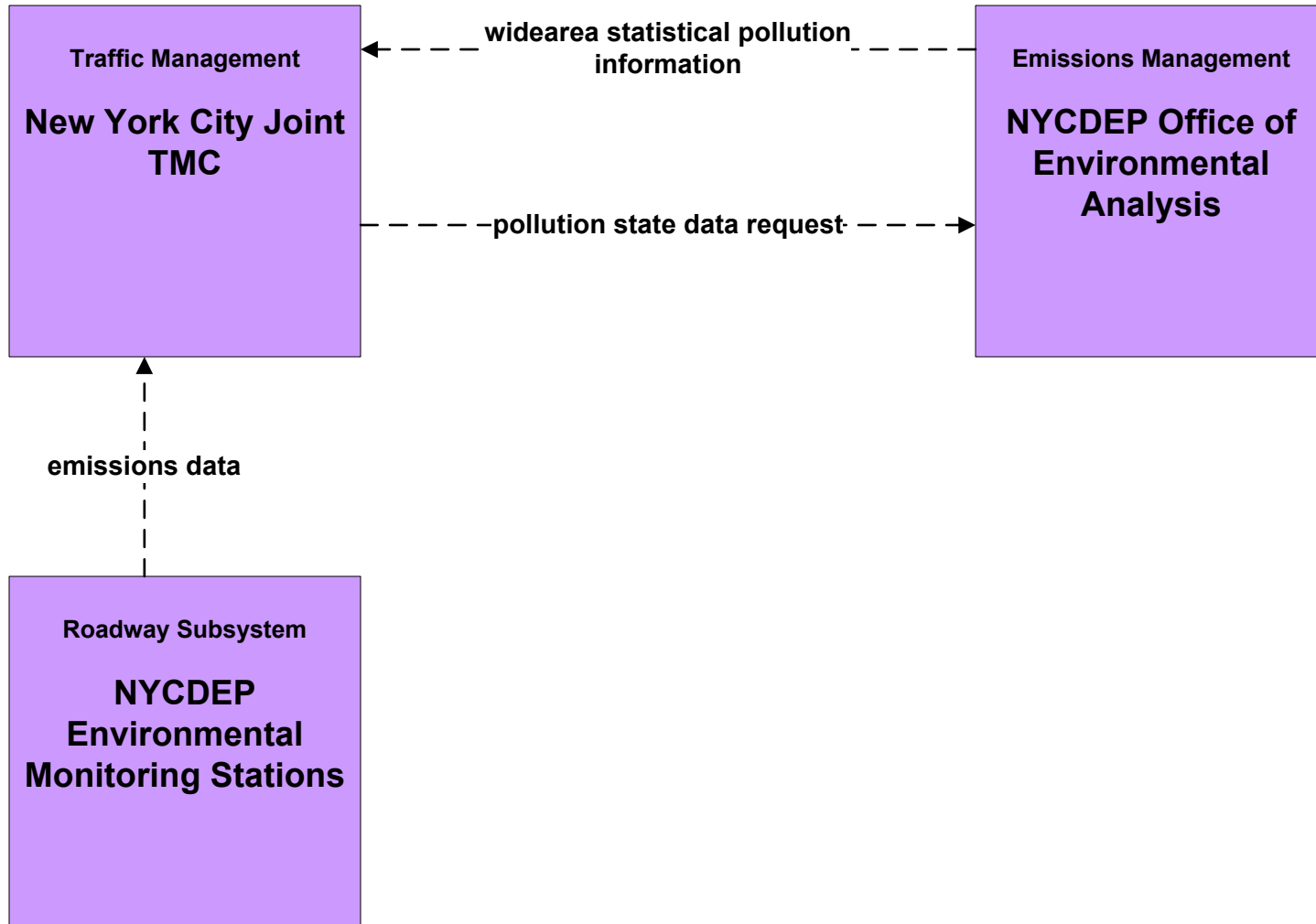
Information Service Provider
E-ZPass CSC Web Site

Toll Administration
E-ZPass Reciprocity Network

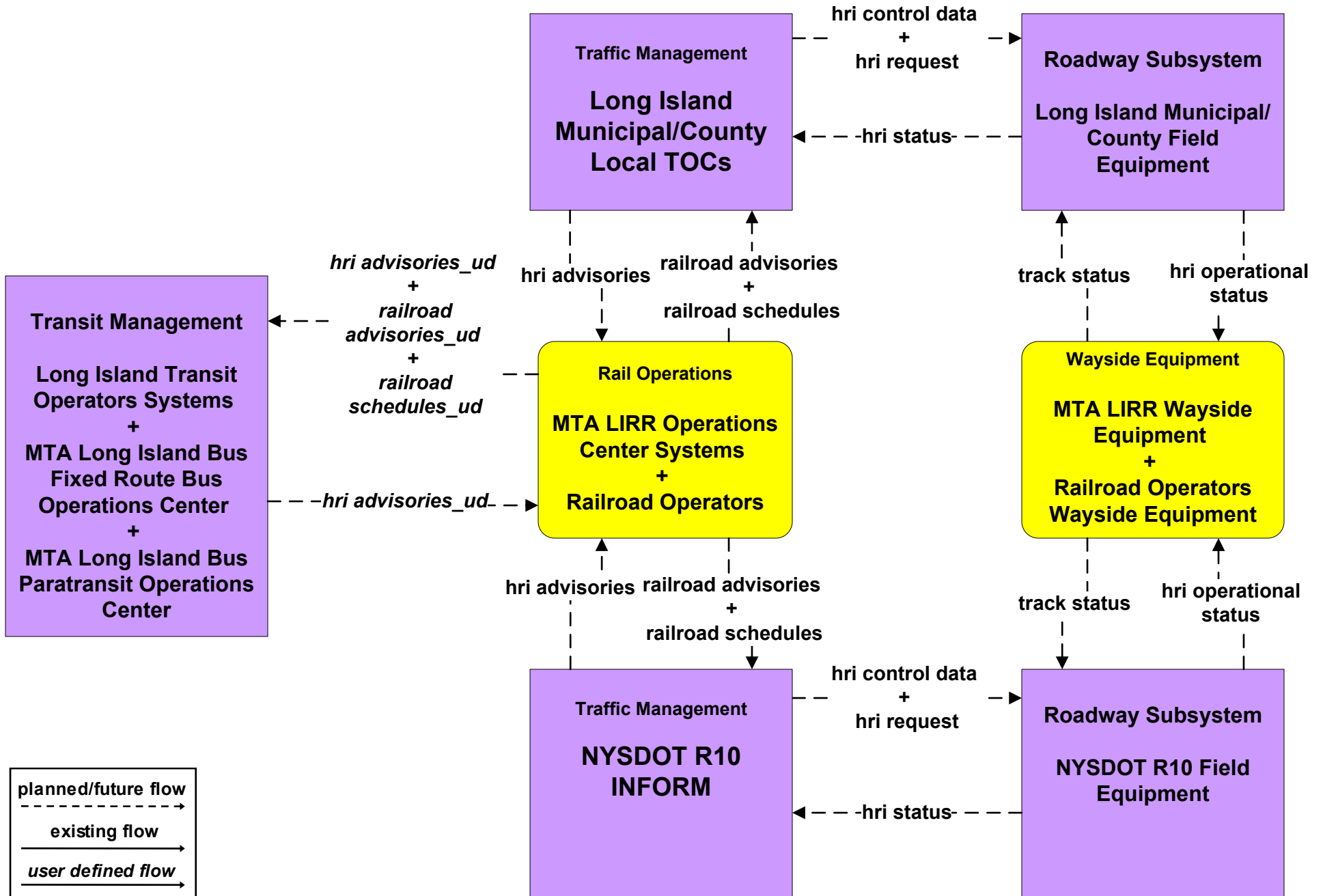
Vehicle
E-ZPass Tag
+
Private Commercial and Fleet Vehicles
+
Private Travelers Vehicles



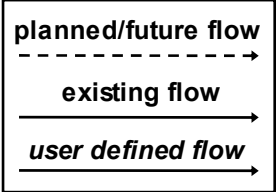
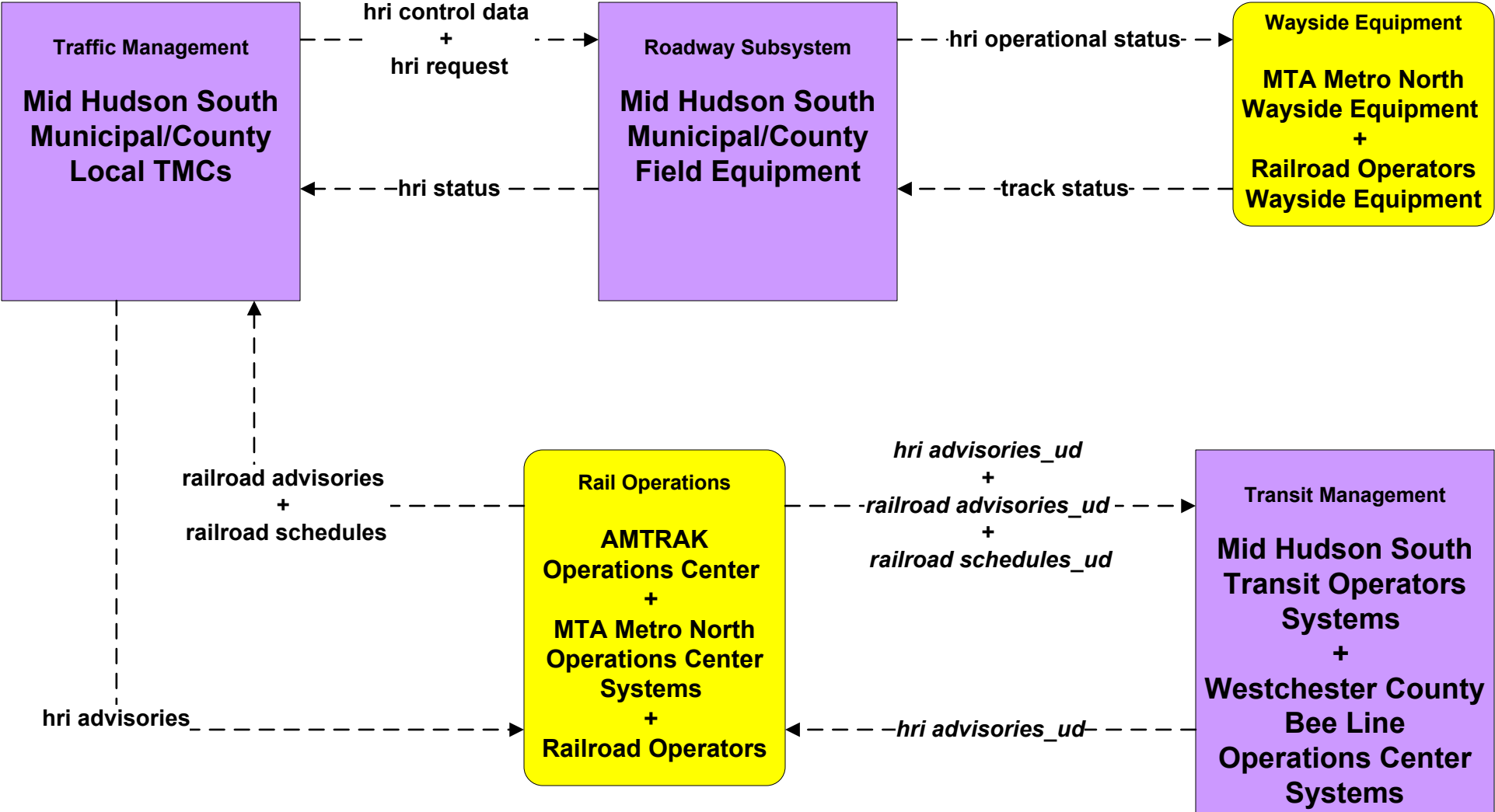
ATMS11 - Emissions Management NYCDEP



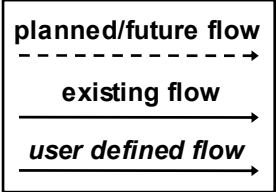
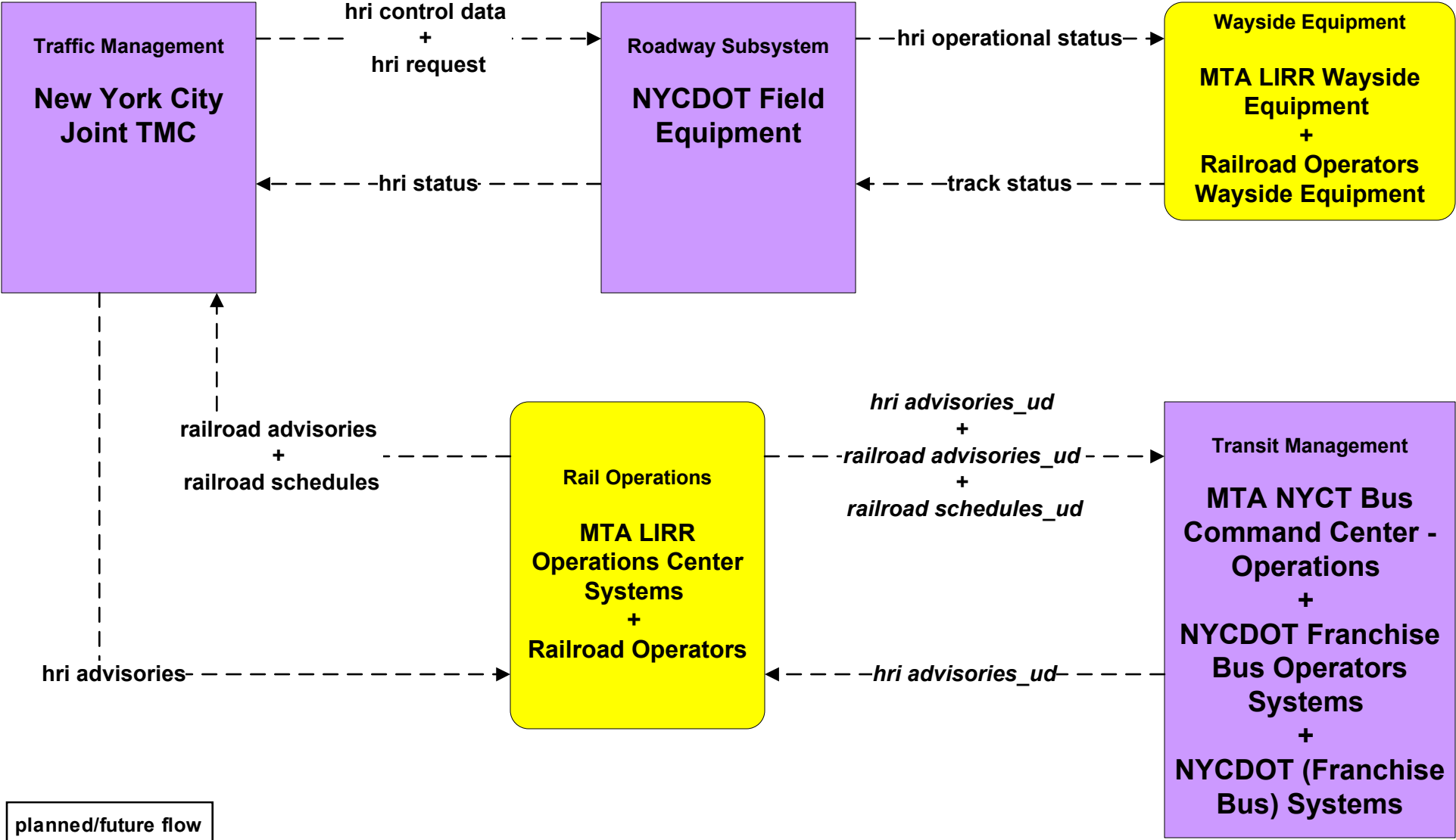
ATMS13 - Standard Railroad Crossing Long Island TMCs and Rail Operators



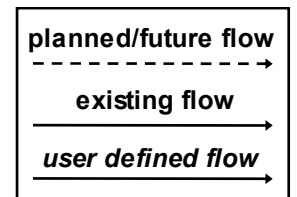
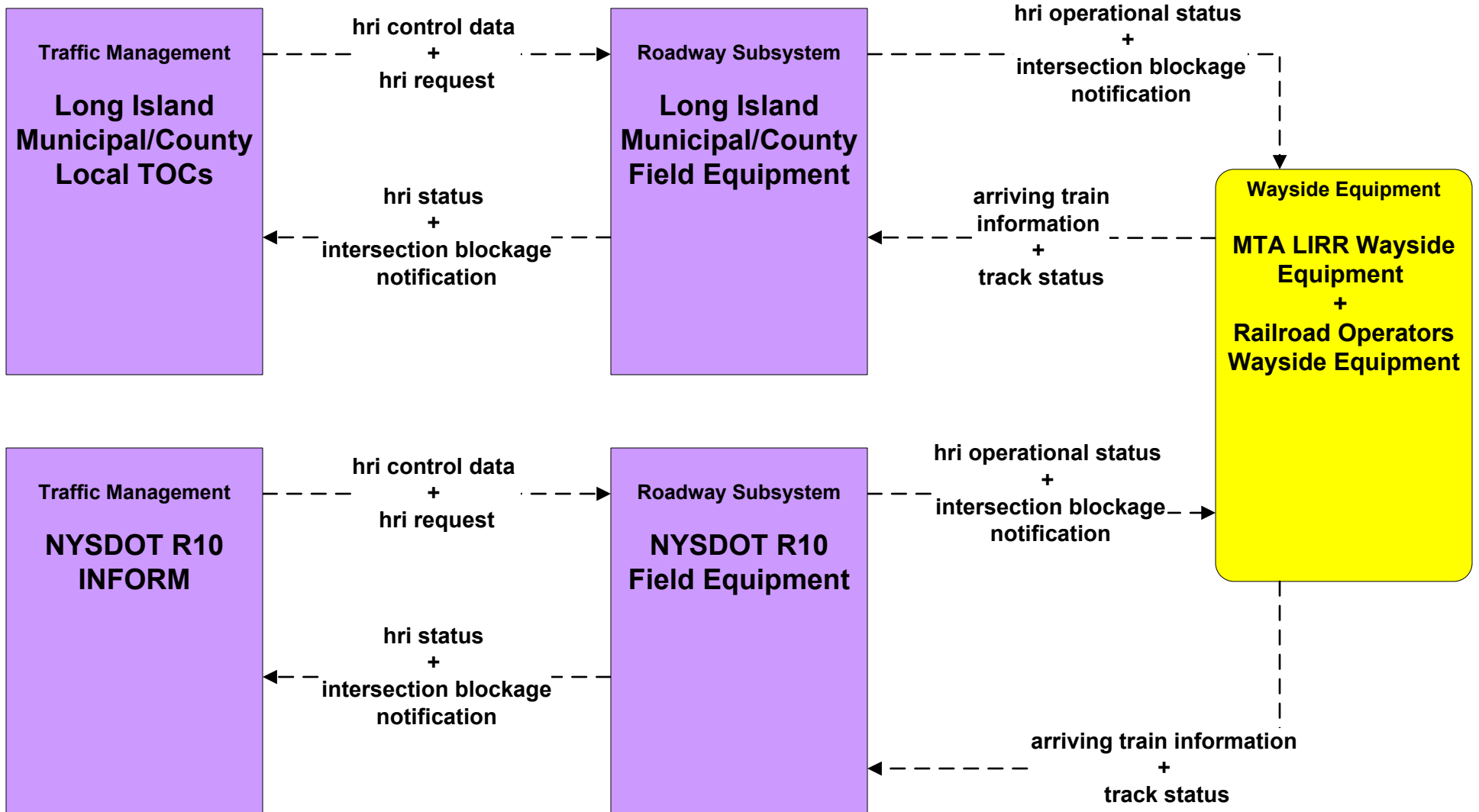
**ATMS13 - Standard Railroad Crossing
Mid Hudson South TMCs and Rail Operators**



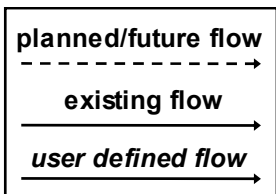
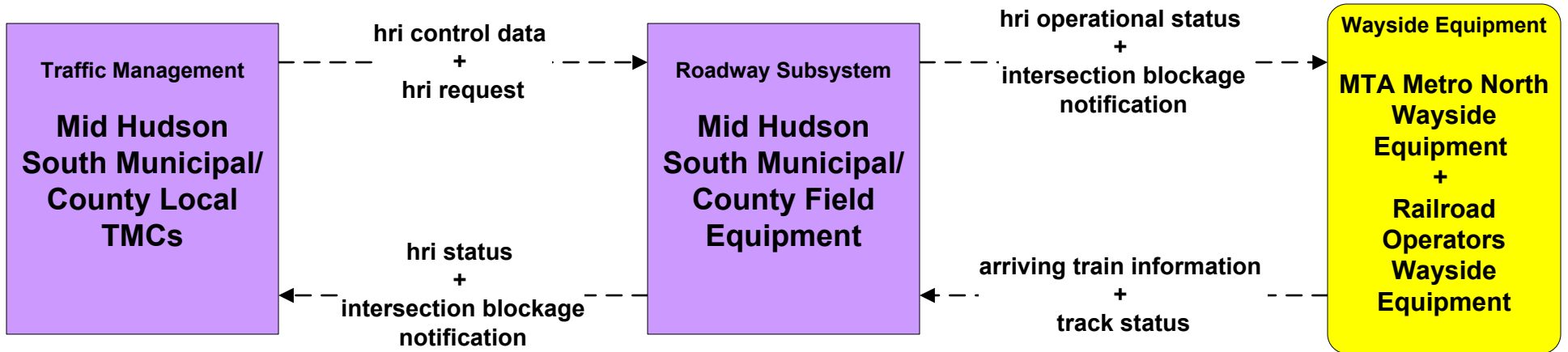
**ATMS13 - Standard Railroad Crossing
New York City Joint TMC and Rail Operators**



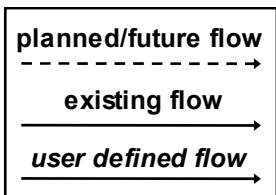
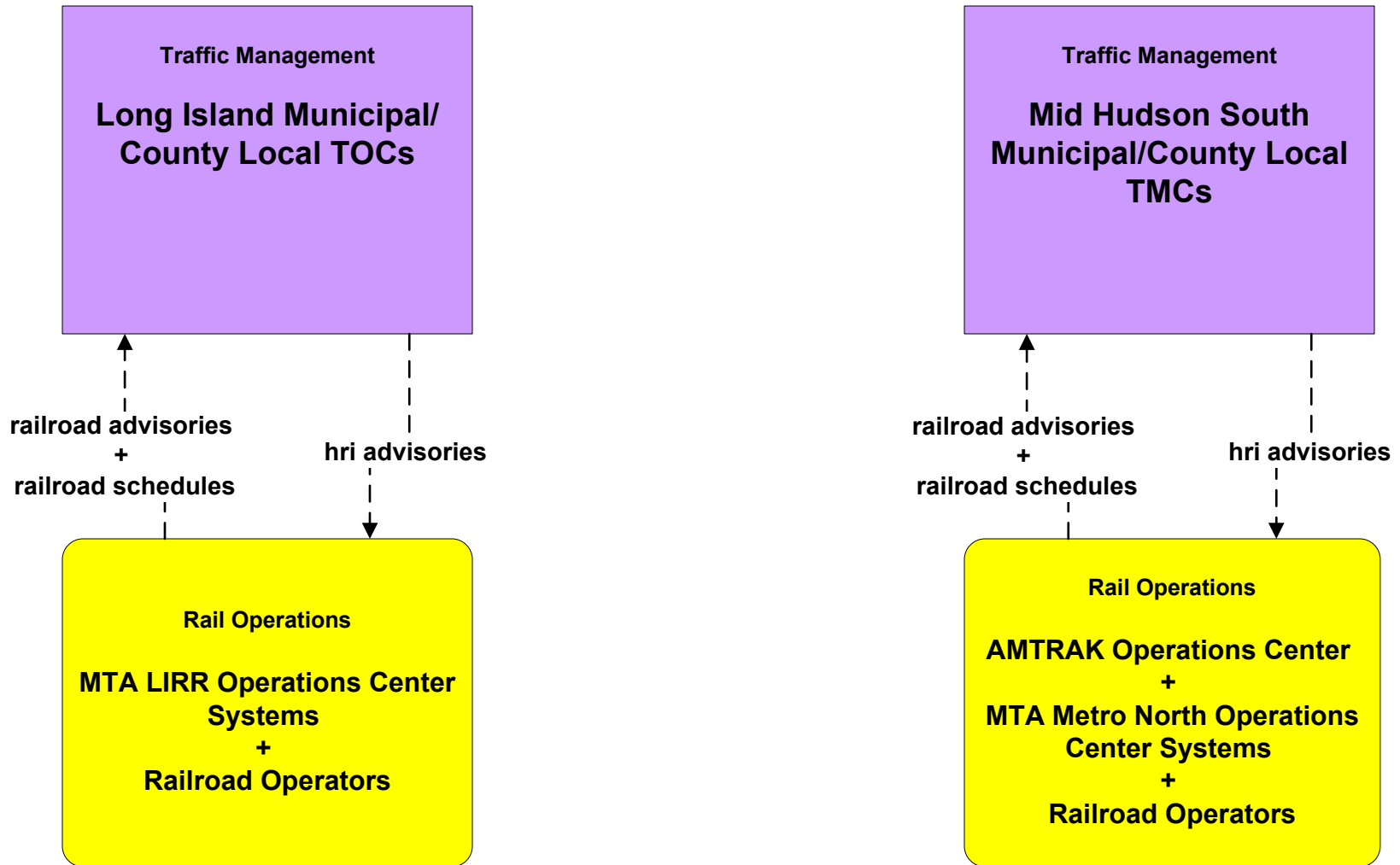
ATMS14 - Advanced Railroad Crossing Long Island Municipal/County TMCs and Rail Operators



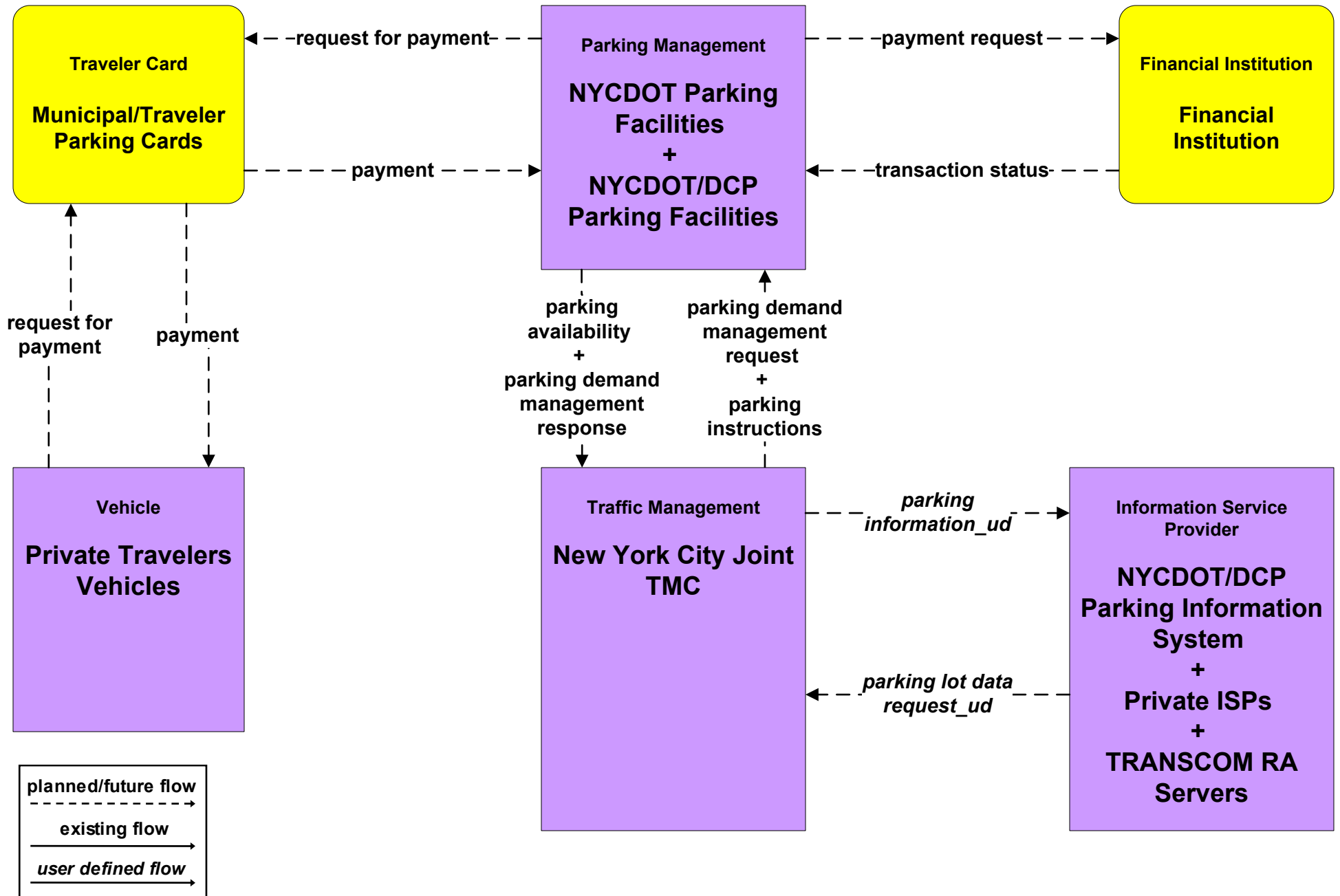
**ATMS14 - Advanced Railroad Crossing
Mid Hudson South TMCs and Rail Operators**



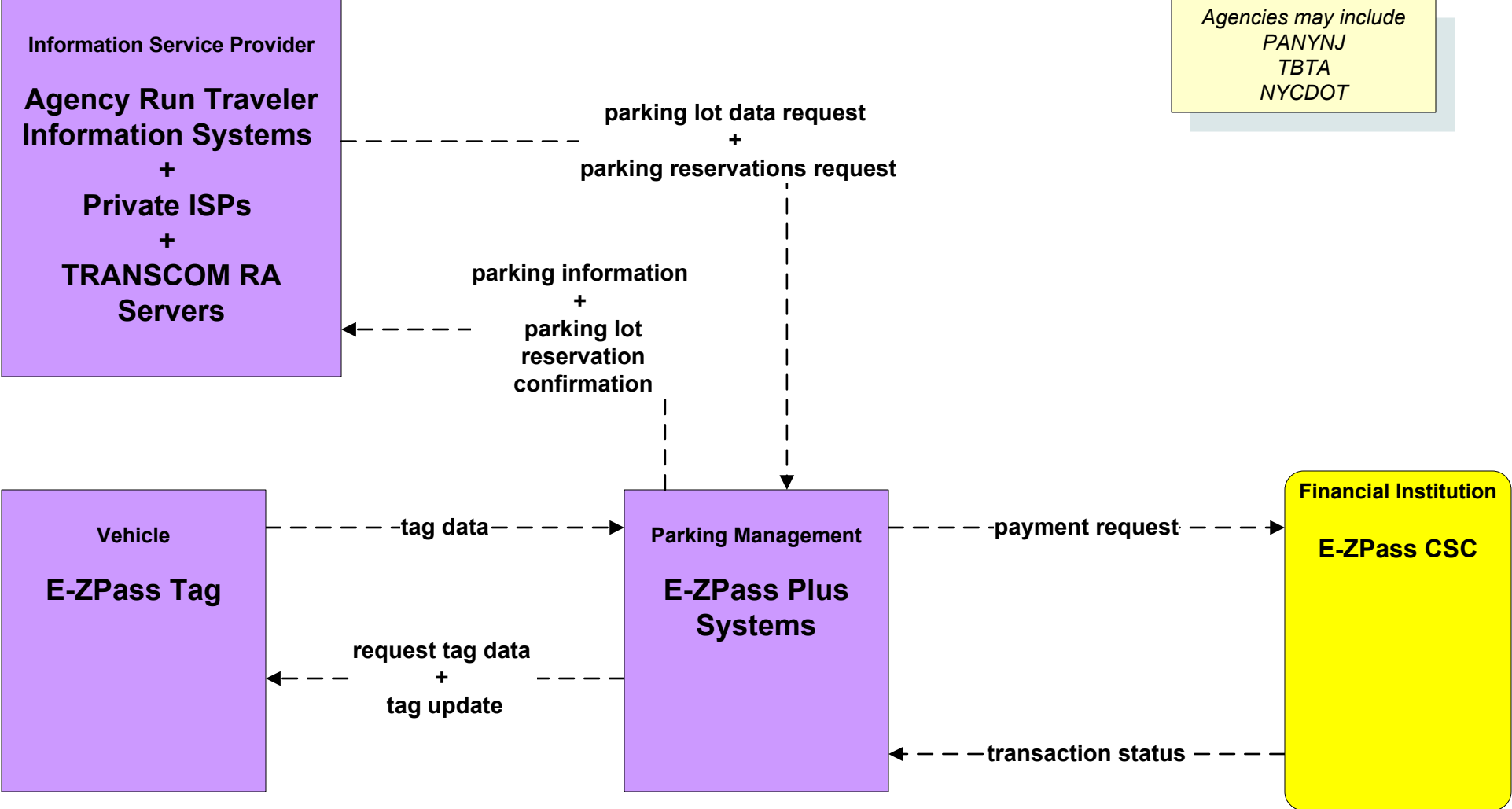
ATMS15 - Railroad Operations Coordination
Long Island and Mid Hudson South Municipal/County TMCs



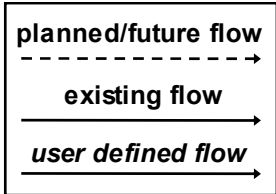
ATMS16 - Parking Facility Management NYCDOT DOT/DCP



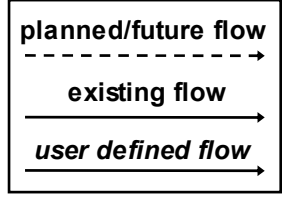
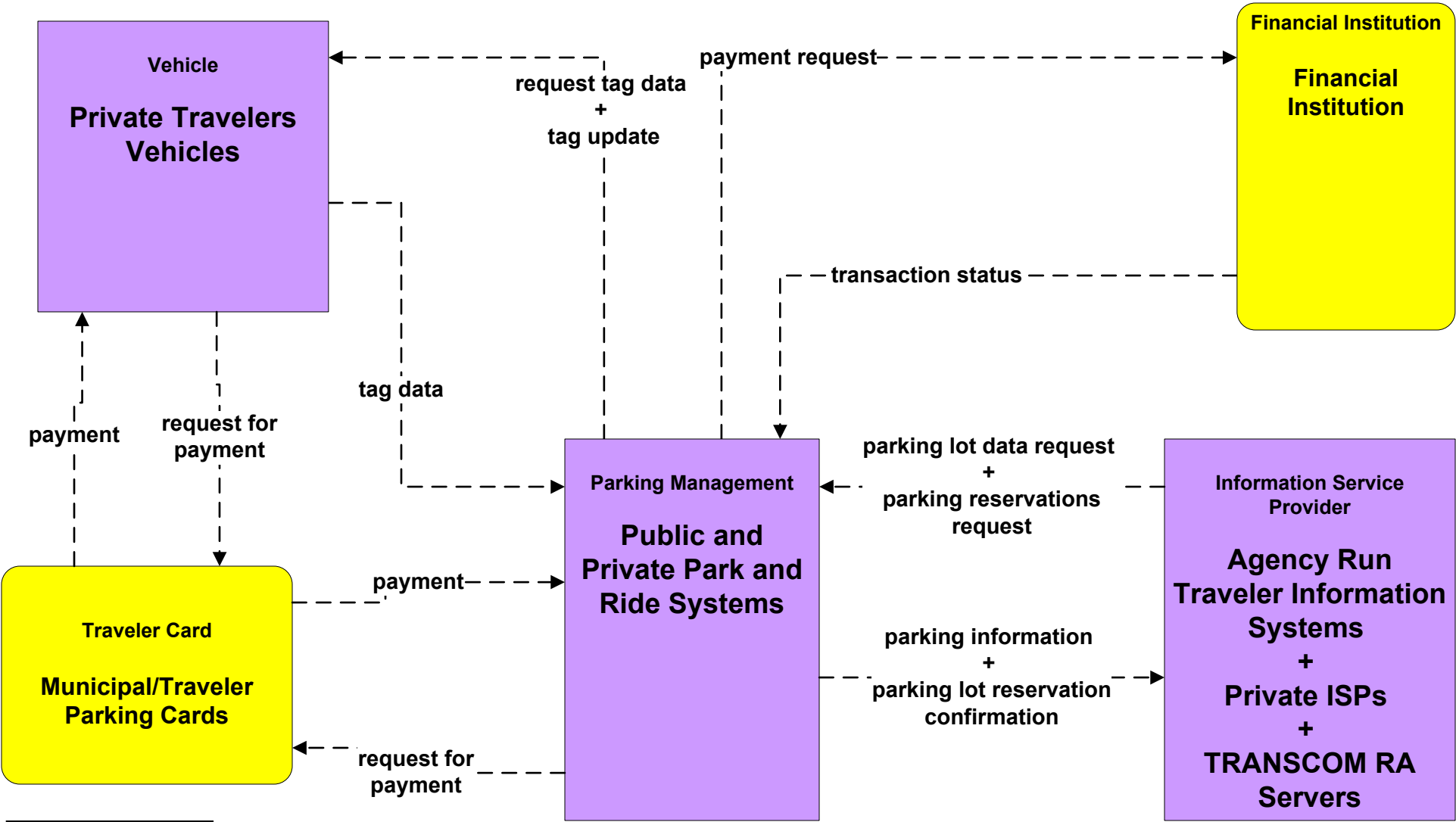
ATMS16 - Parking Facility Management E-ZPass Plus Parking Systems



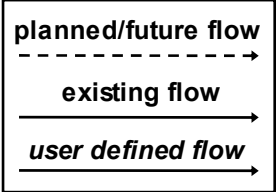
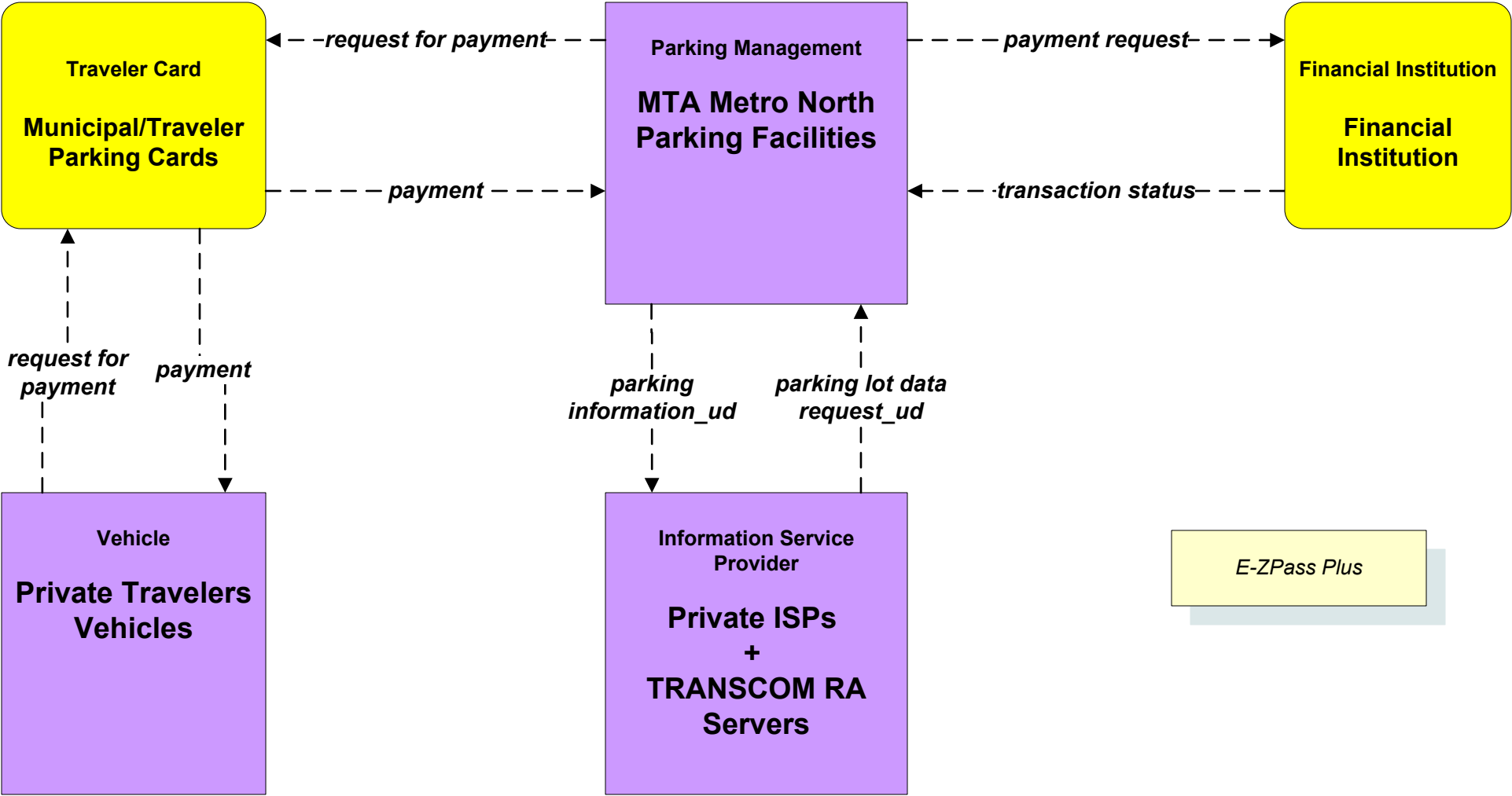
*Agencies may include
PANYNJ
TBTA
NYCDOT*



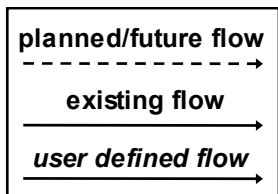
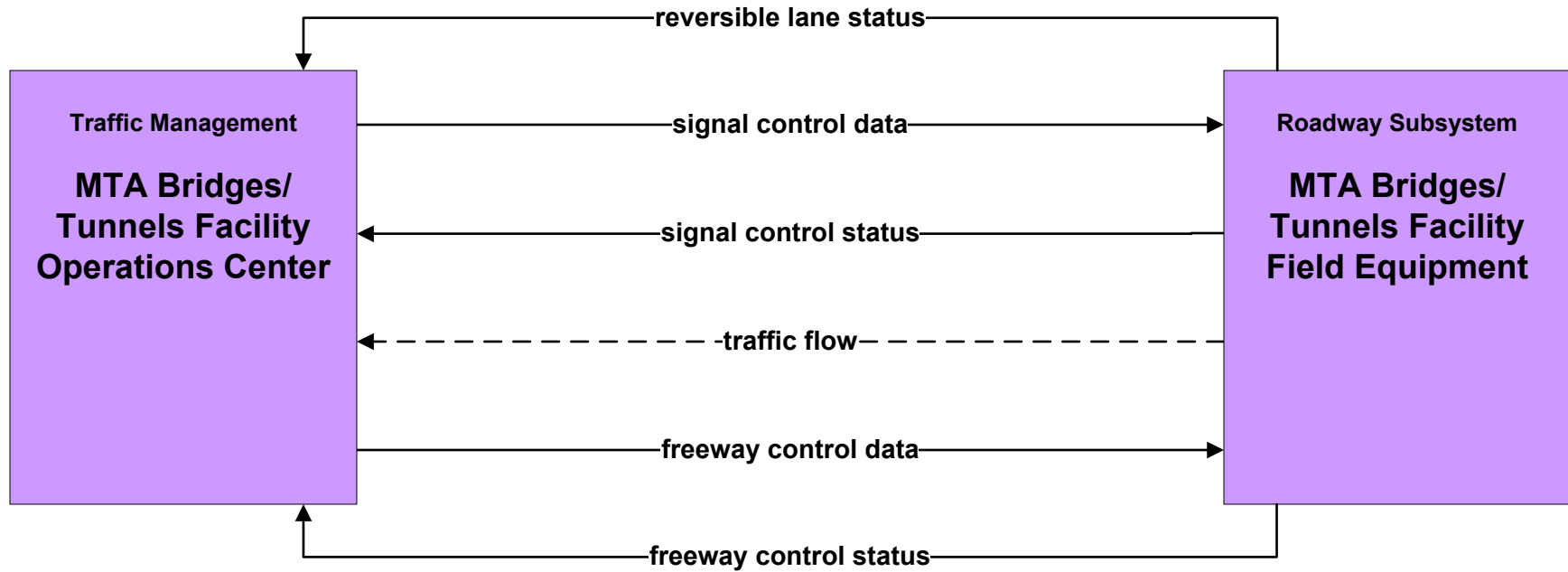
ATMS16 - Parking Facility Management Public and Private Park and Ride



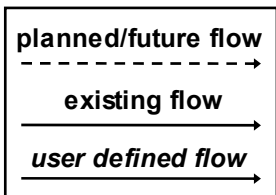
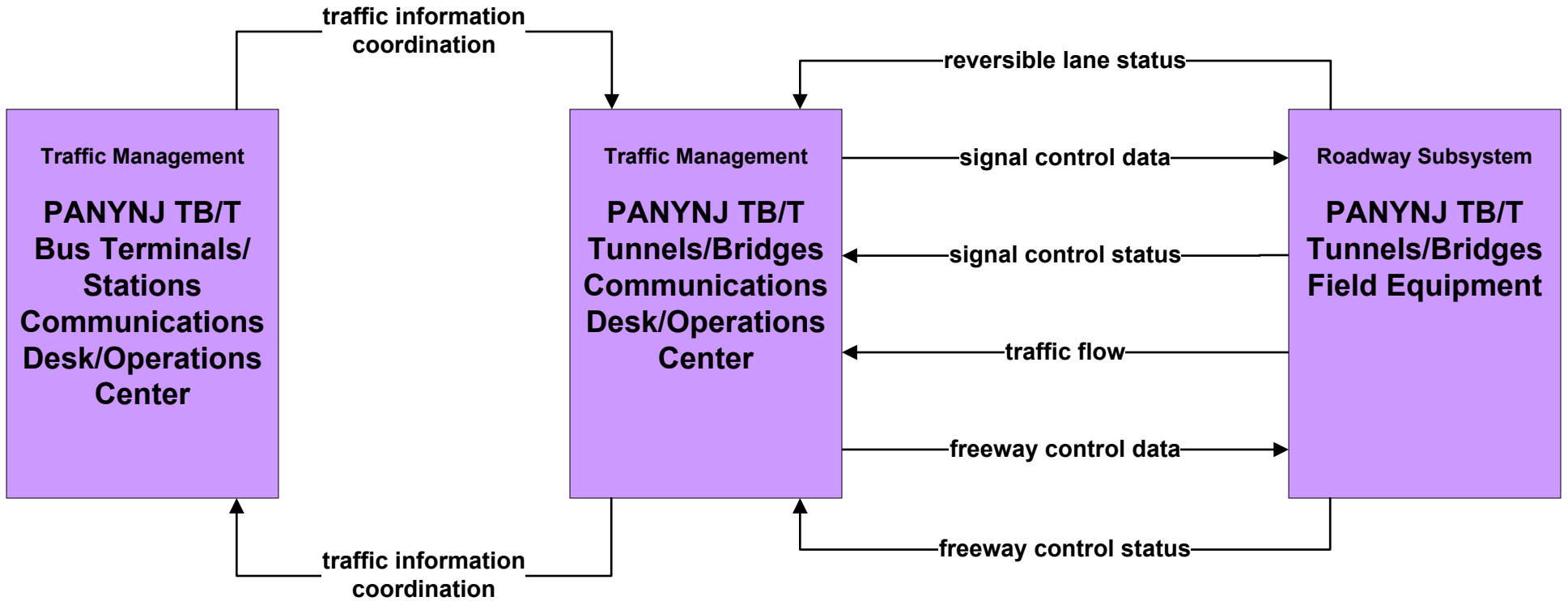
**ATMS16 - Parking Facility Management
MTA Metro North Parking Facilities**



ATMS18 - Reversible Lane Management MTA Bridges and Tunnels

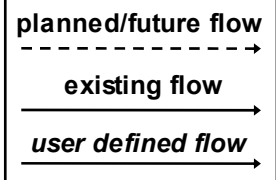
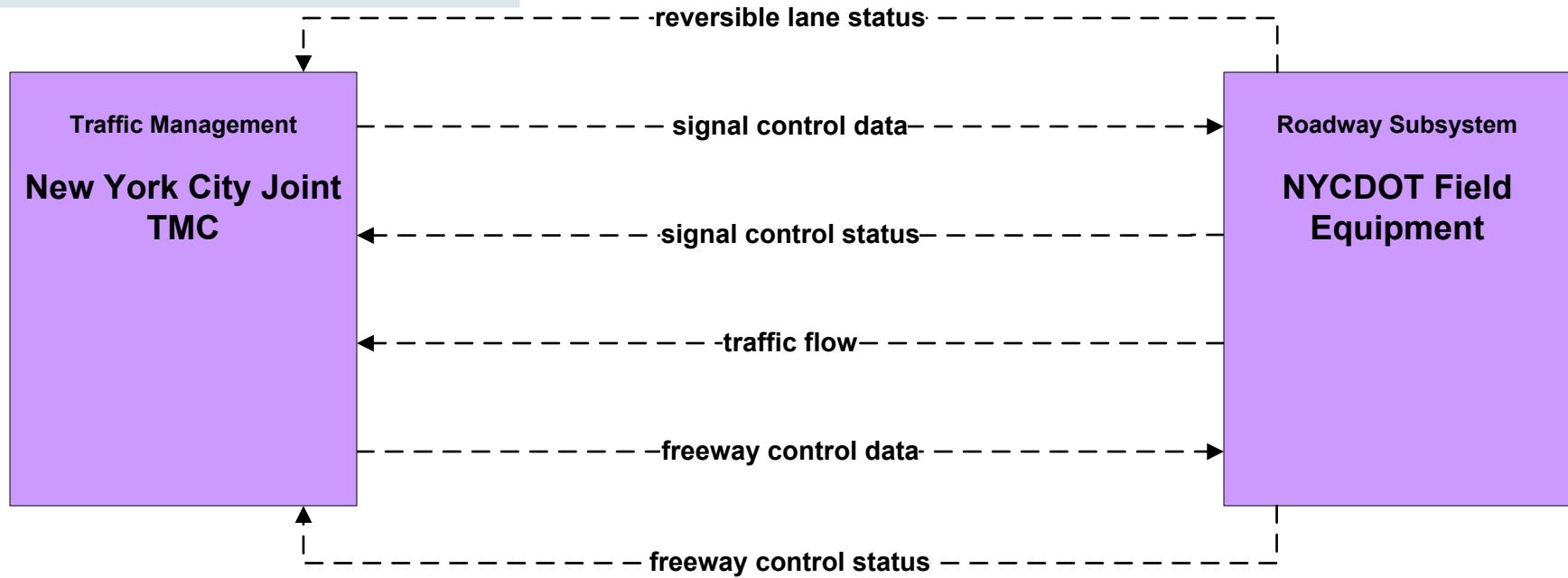


ATMS18 - Reversible Lane Management PANYNJ Tunnels/Bridges

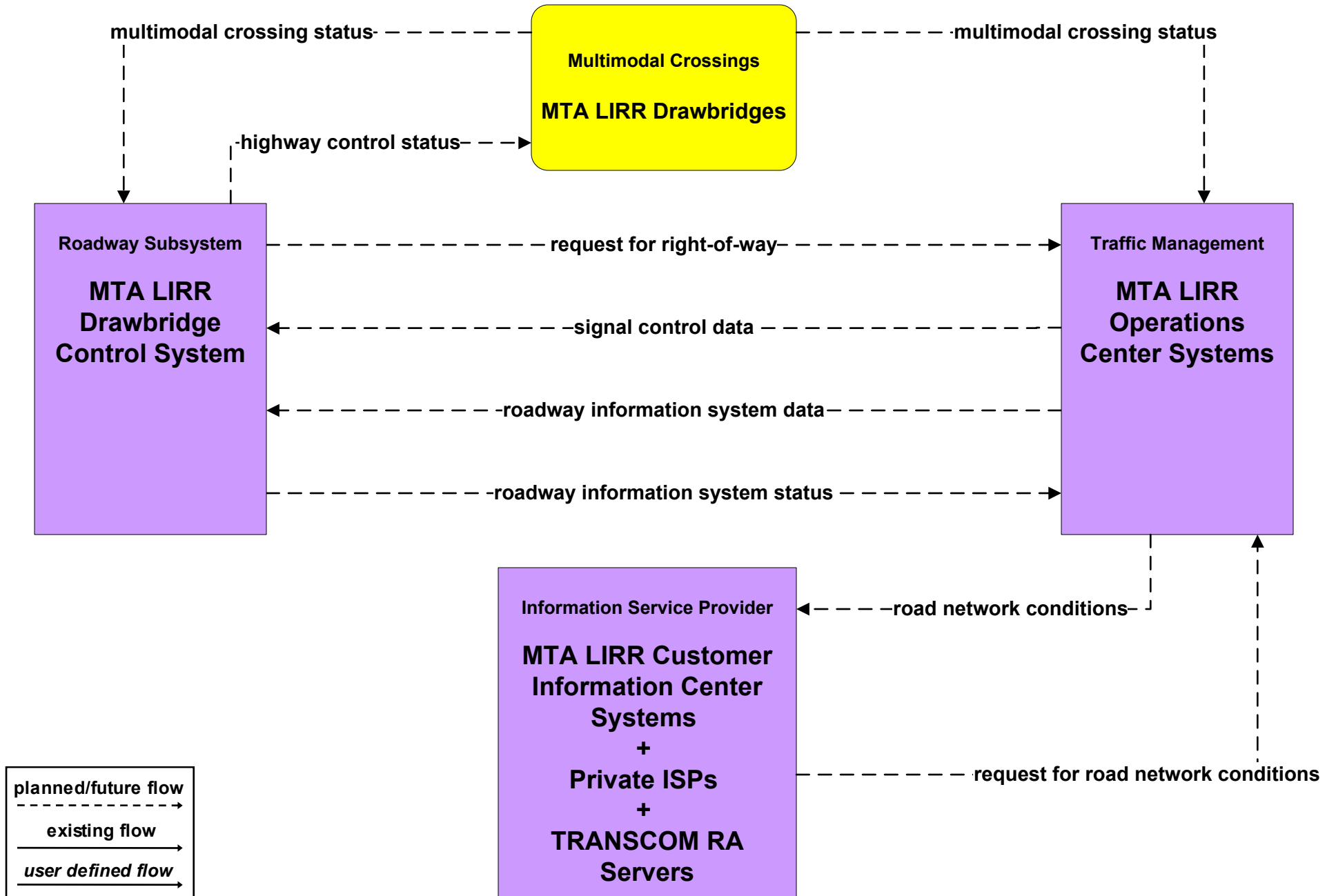


ATMS18 - Reversible Lane Management NYCDOT from the New York City Joint TMC

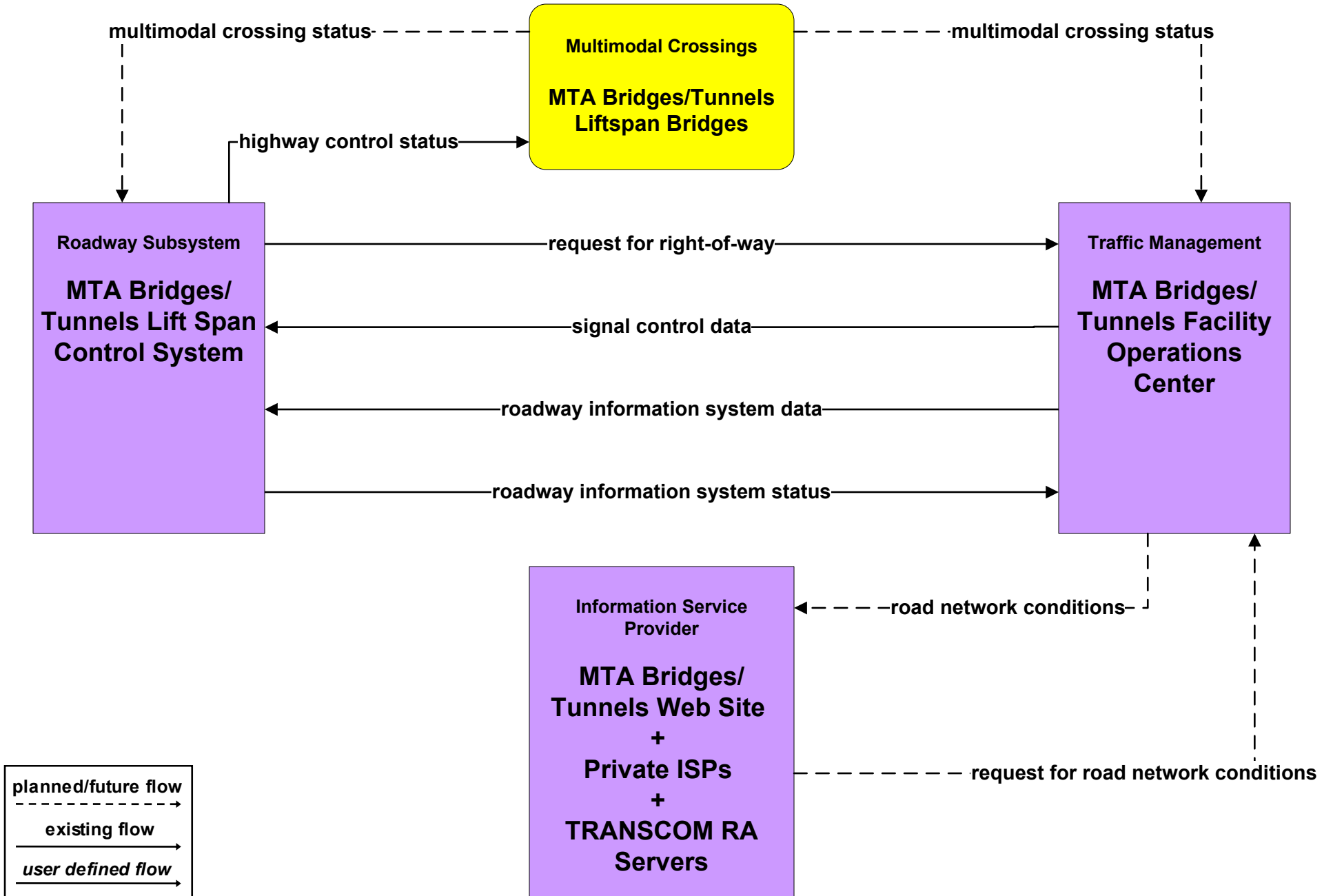
Control of NYCDOT Field Equipment is only from NYCDOT Systems located at the New York City Joint TMC



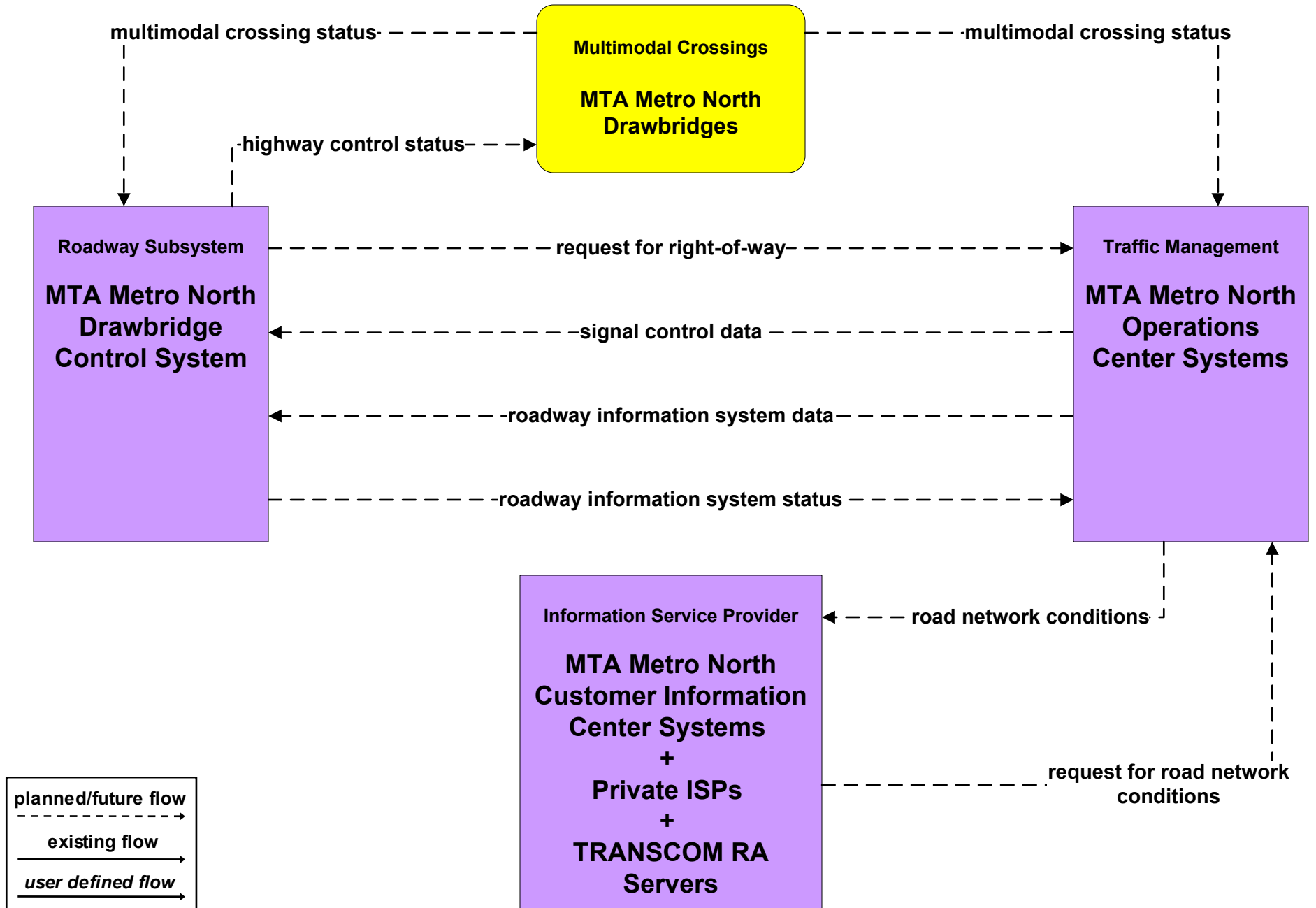
ATMS20 - Drawbridge Management MTA Long Island Railroad



ATMS20 - Drawbridge Management MTA Bridges and Tunnels



ATMS20 - Drawbridge Management MTA Metro North Railroad



ATMS20 - Drawbridge Management NYC DOT

