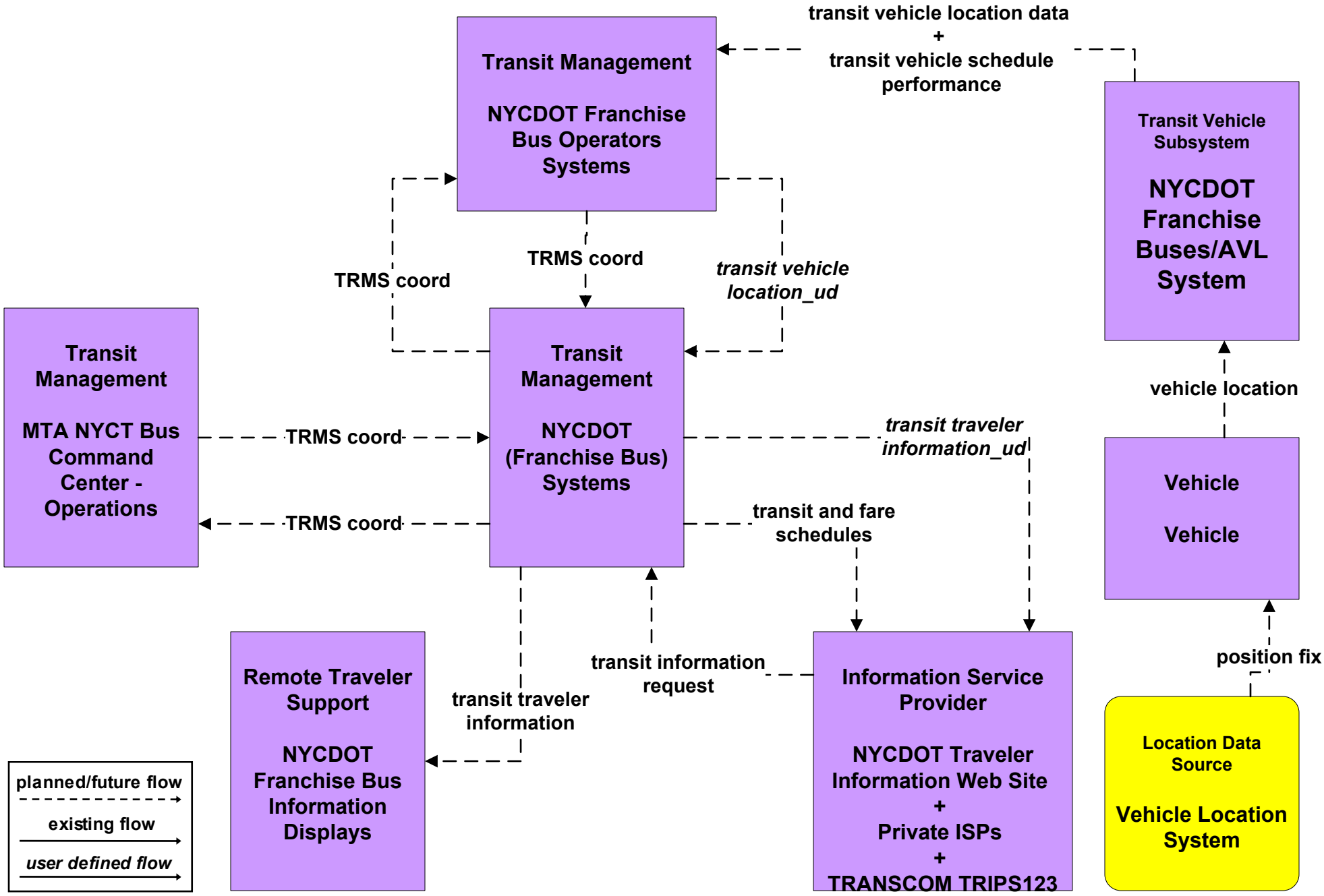
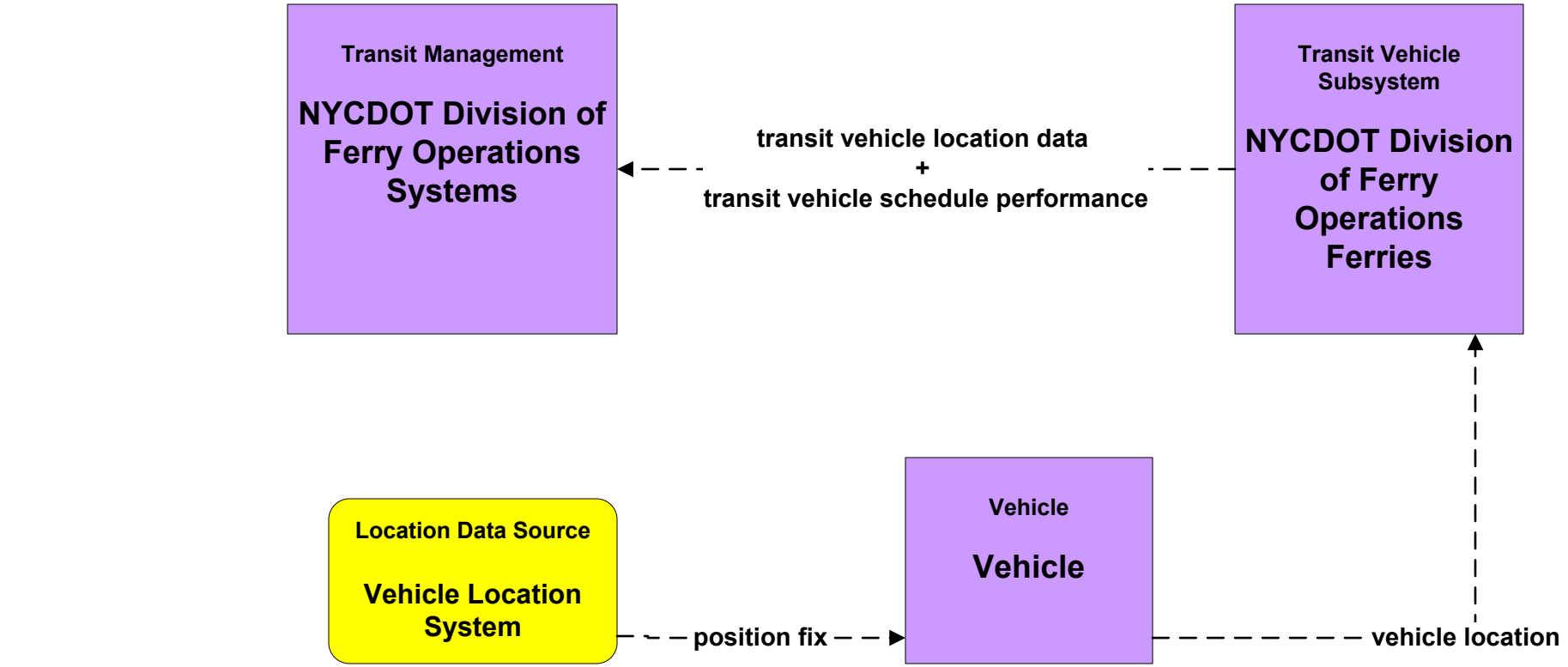
APTS1 - Transit Vehicle Tracking
NYCDOT Franchise Buses



APTS1 - Transit Vehicle Tracking
NYCDOT Division of Ferries



planned/future flow

existing flow

user defined flow

APTS1 - Transit Vehicle Tracking
New York City Metropolitan Area Regional Transit Vehicle Location Consortium

Future use of common technologies and standards to allow participating agencies to share / develop a common transit vehicle tracking infrastructure (e.g., monitor the location of their transit vehicles along other agency's vehicle location systems).

Transit Management

Long Island Transit Operators Systems
+
Mid Hudson South Transit Operators Systems
+
MTA LIRR Operations Center Systems
+
MTA Long Island Bus Fixed Route Bus Operations Center
+
MTA Long Island Bus Paratransit Operations Center
+
MTA Metro North Operations Center Systems
+
MTA NYCT Bus Command Center - Operations
+
MTA NYCT Paratransit Command Center
+
MTA NYCT Staten Island Railway Control Facility

transit vehicle location data_ud
+
transit vehicle schedule performance_ud

transit vehicle location data_ud
+
transit vehicle schedule performance_ud

Other TRM

Regional Transit Vehicle Location Consortium

transit vehicle location data_ud
+
transit vehicle schedule performance_ud

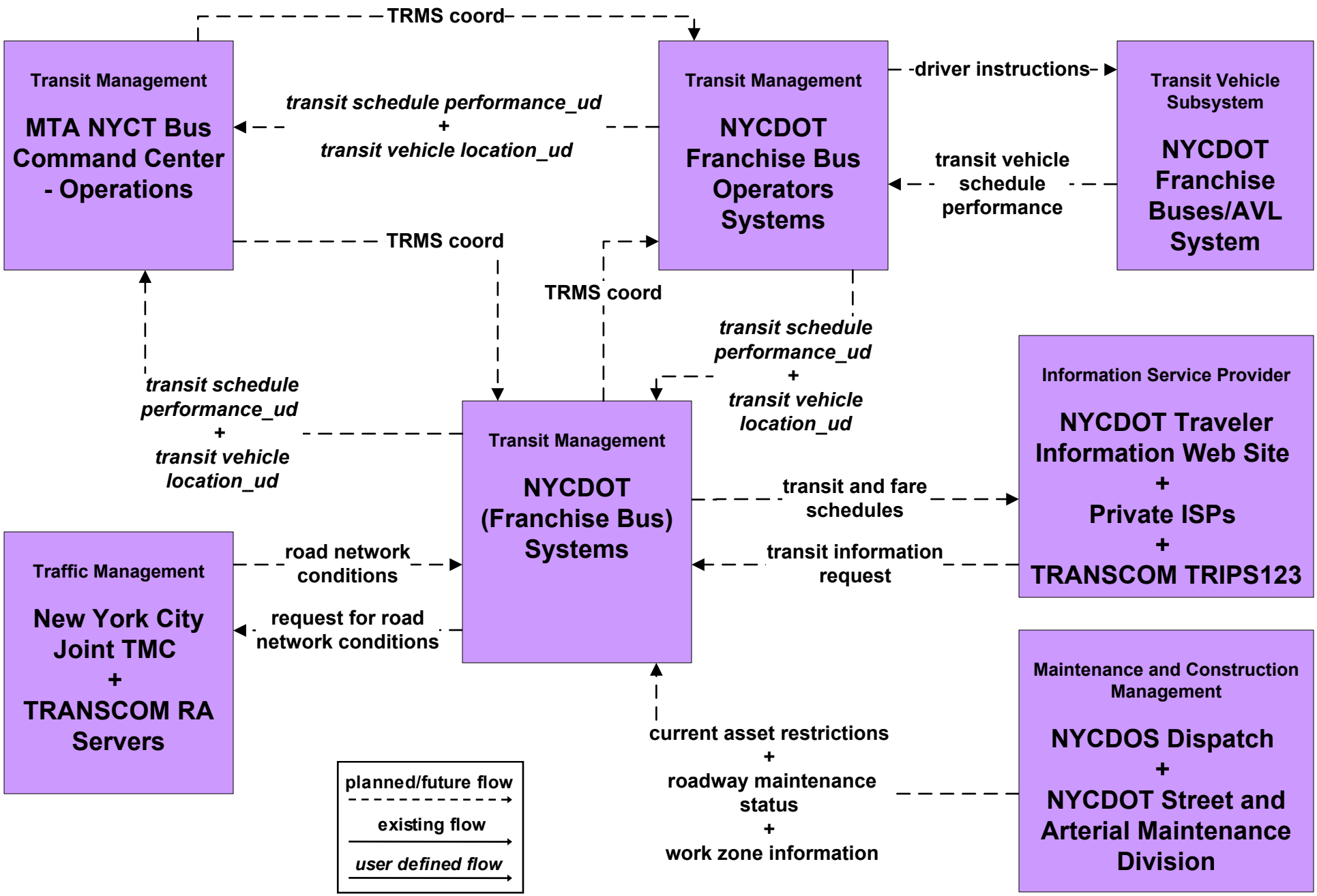
transit vehicle location data_ud
+
transit vehicle schedule performance_ud

Transit Management

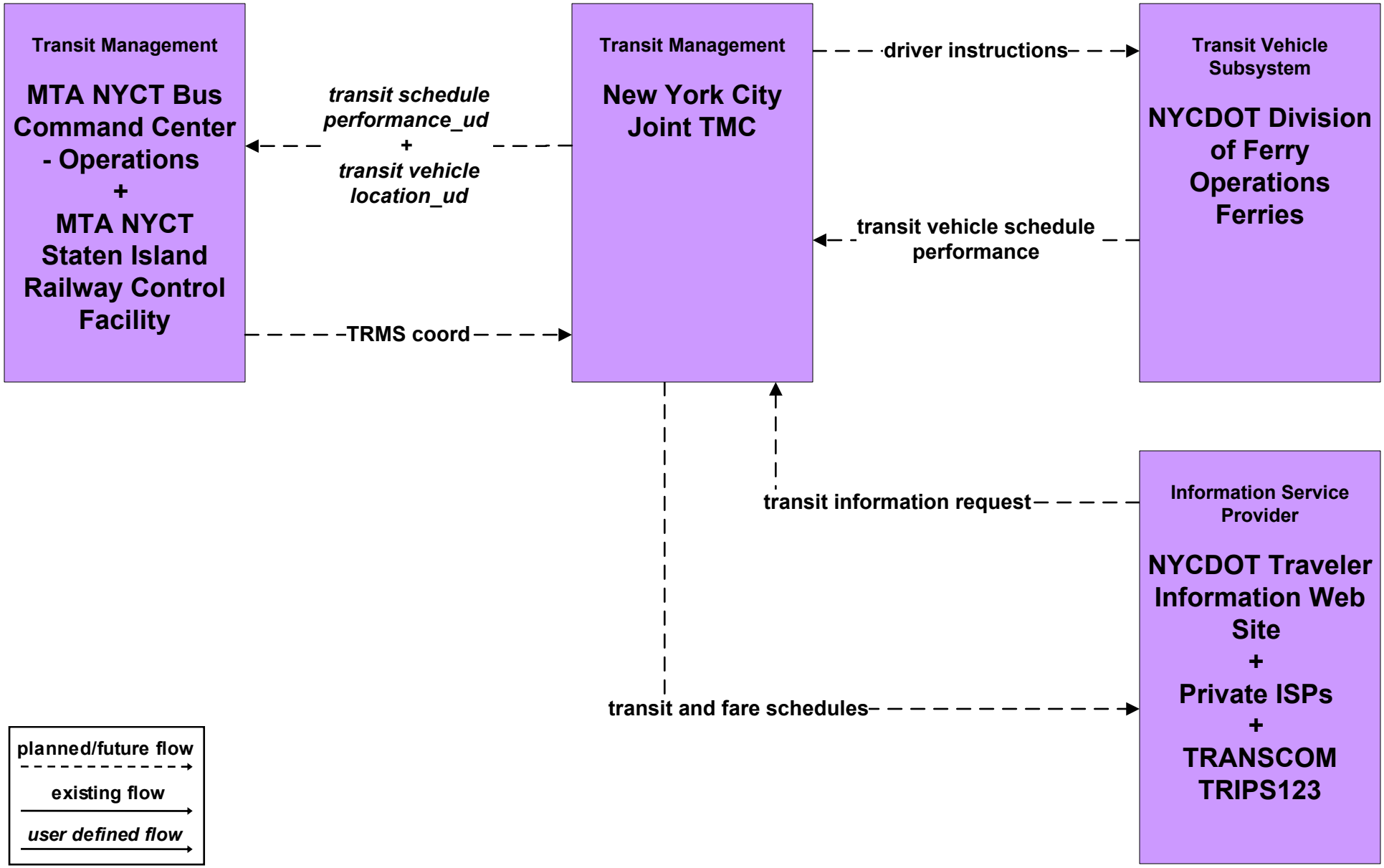
MTA NYCT Subway Rail Control Center
+
NJT Bus Operations Systems
+
NJT Rail Operations Systems
+
NYCDOT Division of Ferry Operations Systems
+
NYCDOT Franchise Bus Operators Systems
+
Private Ferry Operators Systems
+
Private Long-Distance Bus Operators Systems
+
Private Paratransit Operators Systems
+
TRANSCOM TRIPS123
+
Westchester County Bee Line Fare Management System

planned/future flow
existing flow
user defined flow

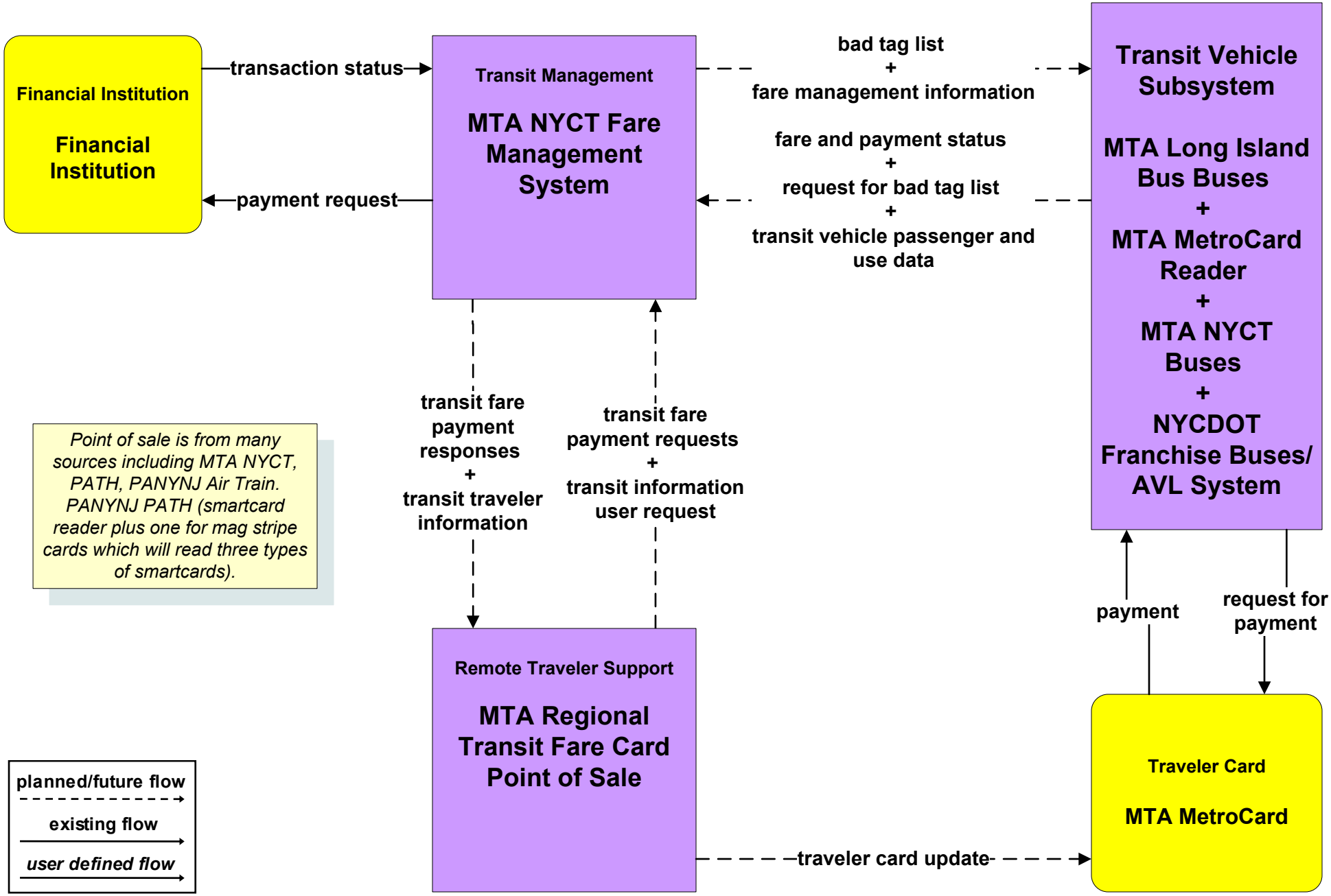
APTS2 - Transit Fixed-Route Operations
NYCDOT Franchise Buses



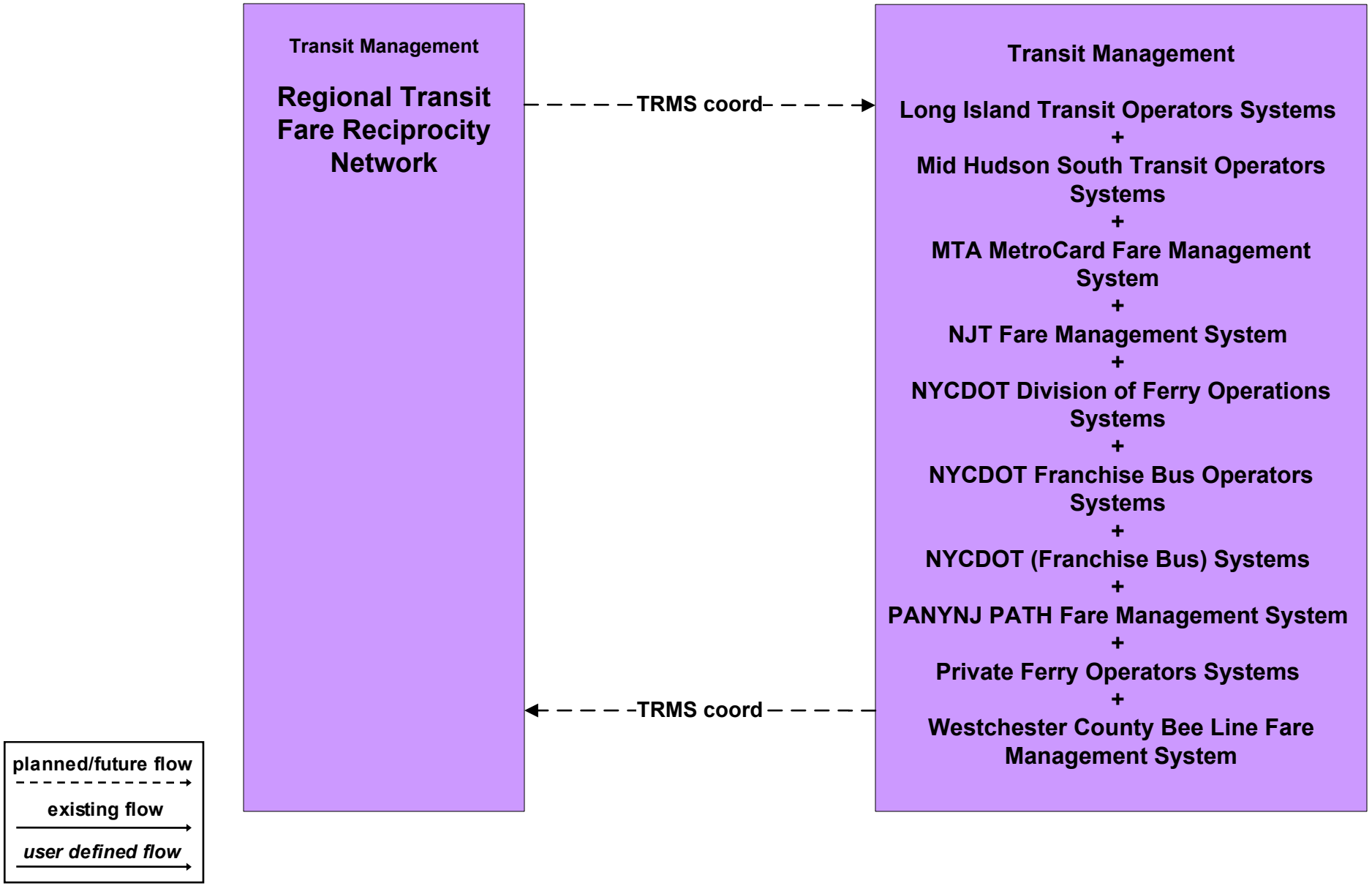
APTS2 - Transit Fixed-Route Operations
NYCDOT Division of Ferry Operations



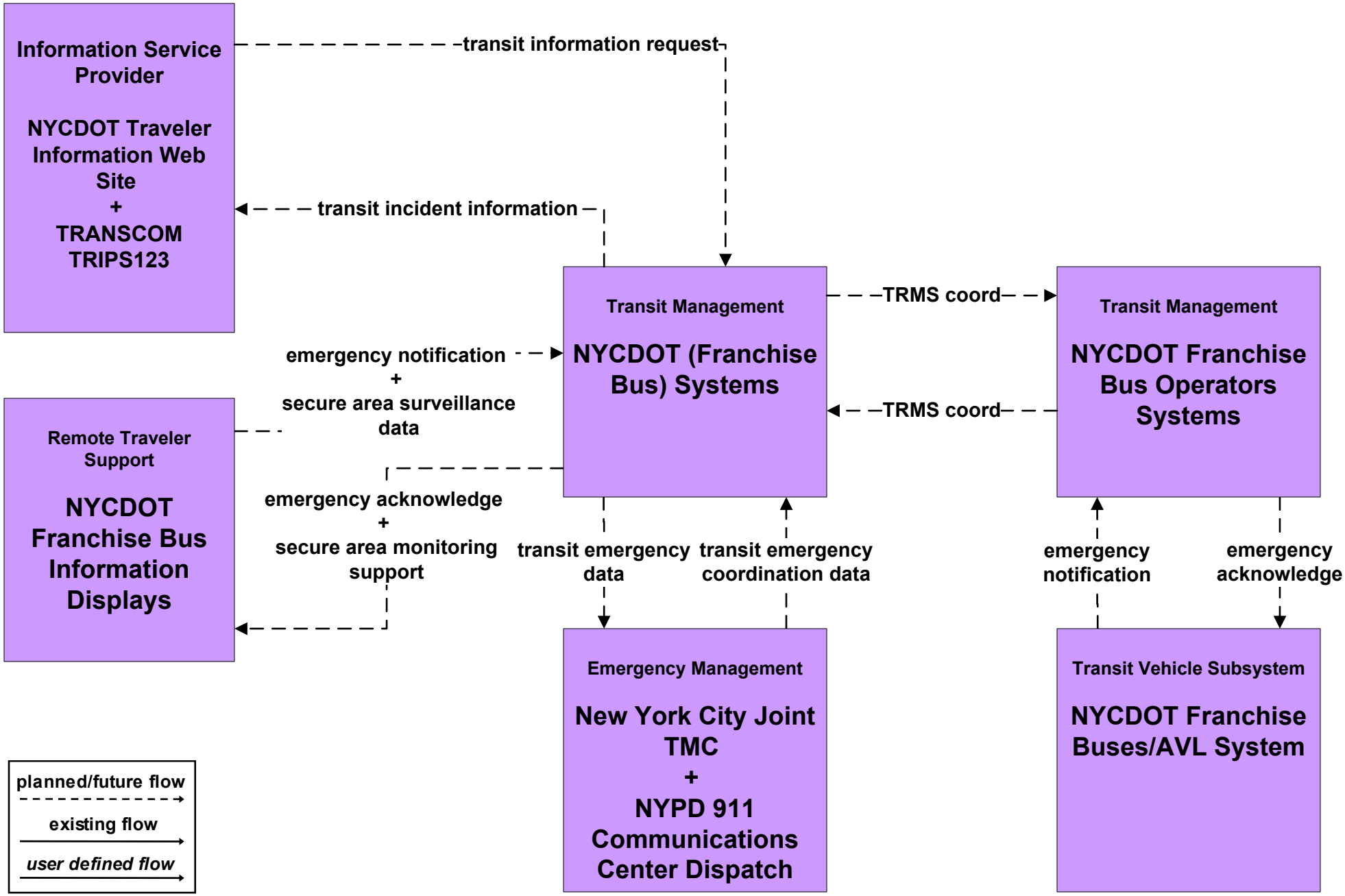
APTS4 - Transit Passenger and Fare Payment
MTA MetroCard Management



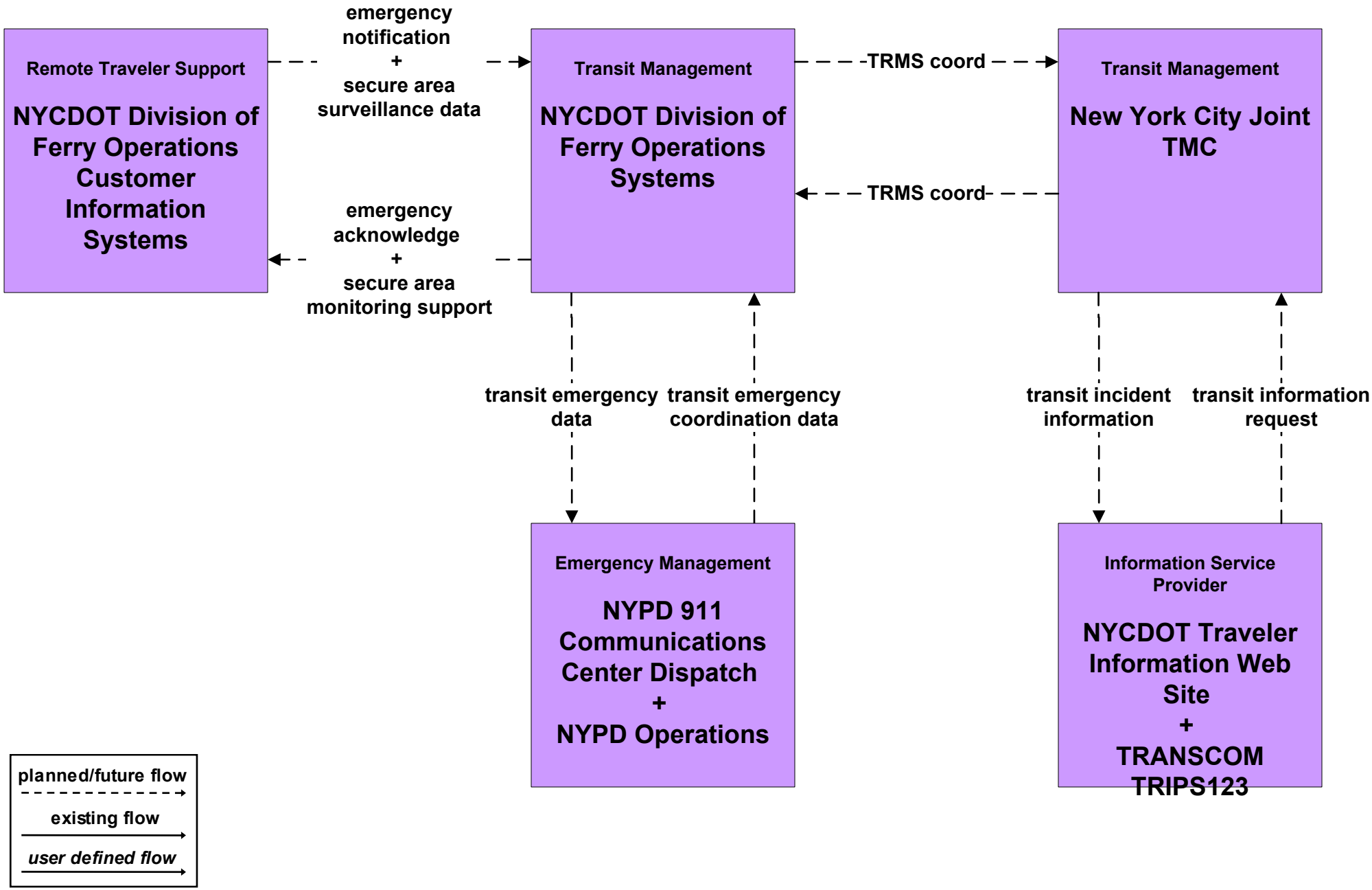
APTS4 - Transit Passenger and Fare Payment
Regional Transit Fare Reciprocity Network (FUTURE)

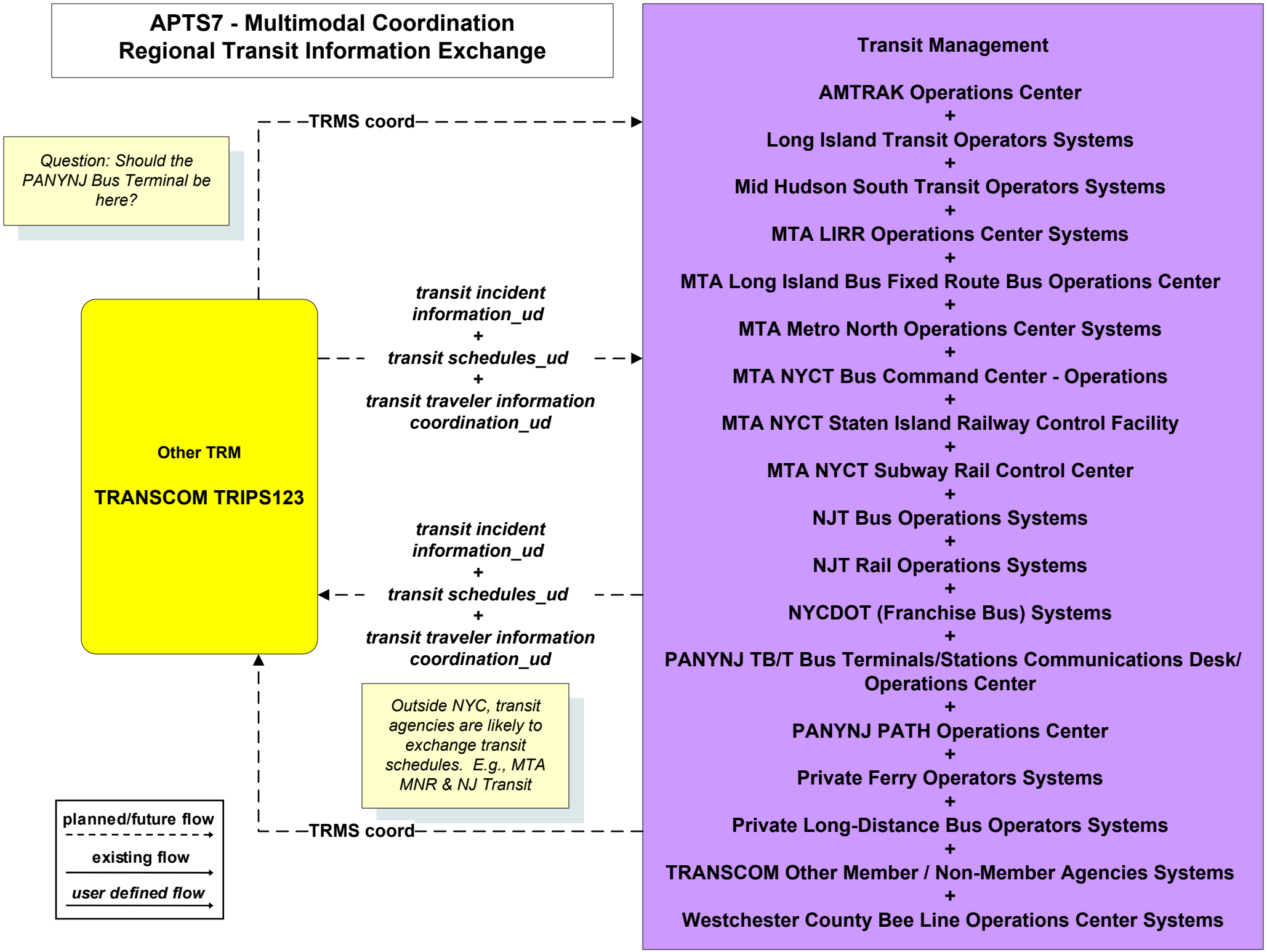


APTS5 - Transit Security
NYCDOT Franchise Buses

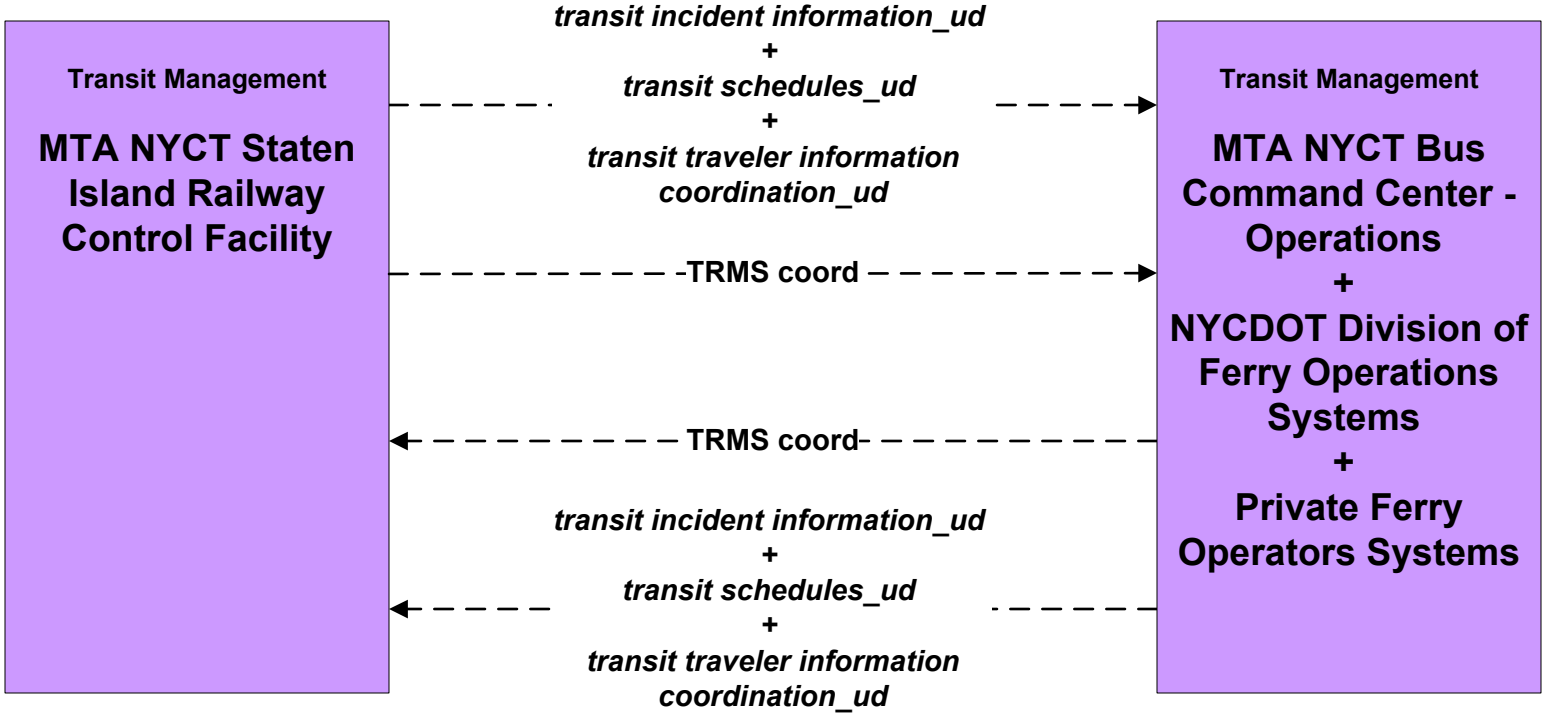


APTS5 - Transit Security
NYCDOT Division of Ferry Operations




APTS7 - Multimodal Coordination
Regional Transit Information Exchange
Transit Management
AMTRAK Operations Center
+
Long Island Transit Operators Systems
+
Mid Hudson South Transit Operators Systems
+
MTA LIRR Operations Center Systems
+
MTA Long Island Bus Fixed Route Bus Operations Center
+
MTA Metro North Operations Center Systems
+
MTA NYCT Bus Command Center - Operations
+
MTA NYCT Staten Island Railway Control Facility
+
MTA NYCT Subway Rail Control Center
+
NJT Bus Operations Systems
+
NJT Rail Operations Systems
+
NYCDOT (Franchise Bus) Systems
+
PANYNJ TB/T Bus Terminals/Stations Communications Desk/ Operations Center
+
PANYNJ PATH Operations Center
+
Private Ferry Operators Systems
+
Private Long-Distance Bus Operators Systems
+
TRANSCOM Other Member / Non-Member Agencies Systems
+
Westchester County Bee Line Operations Center Systems
TRMS coord
Question: Should the PANYNJ Bus Terminal be here?
transit incident information_ud
+
transit schedules_ud
+
transit traveler information coordination_ud
Other TRM
TRANSCOM TRIPS123
transit incident information_ud
+
transit schedules_ud
+
transit traveler information coordination_ud
Outside NYC, transit agencies are likely to exchange transit schedules. E.g., MTA MNR & NJ Transit
TRMS coord
planned/future flow
existing flow
user defined flow

APTS7 - Multimodal Coordination
Regional Transit Information Exchange
MTA NYCT Staten Island Railway

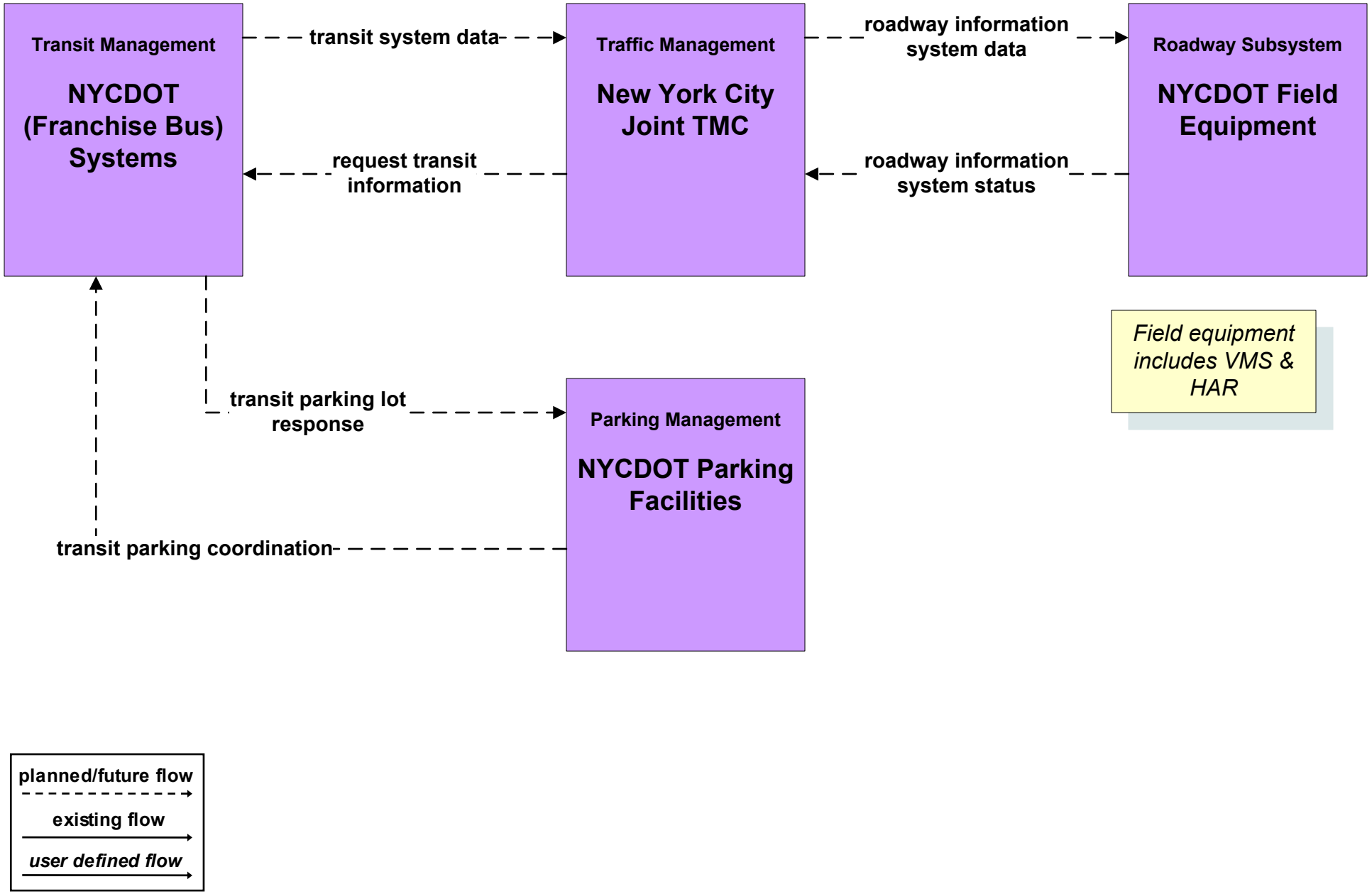


planned/future flow

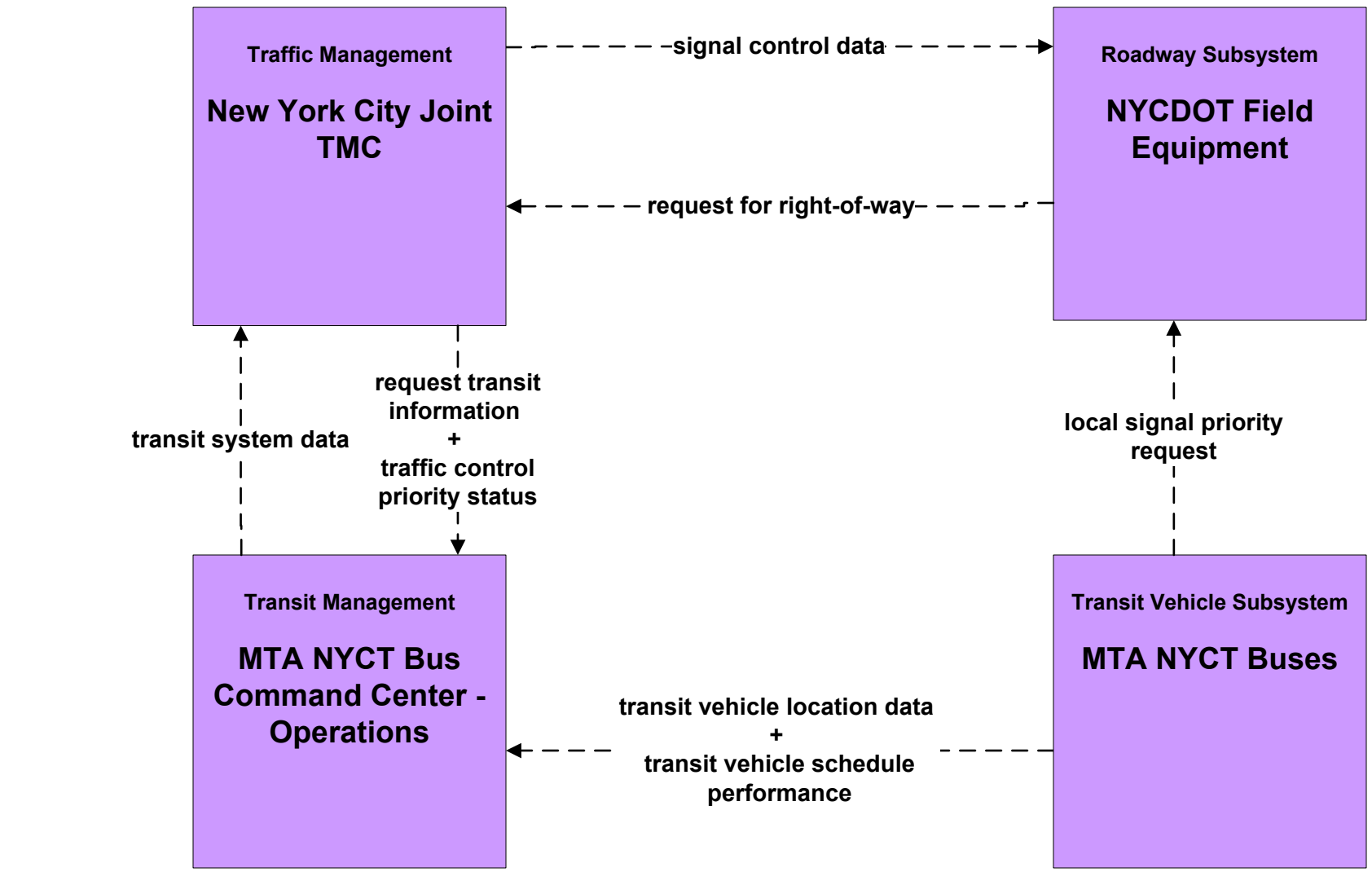
existing flow

user defined flow

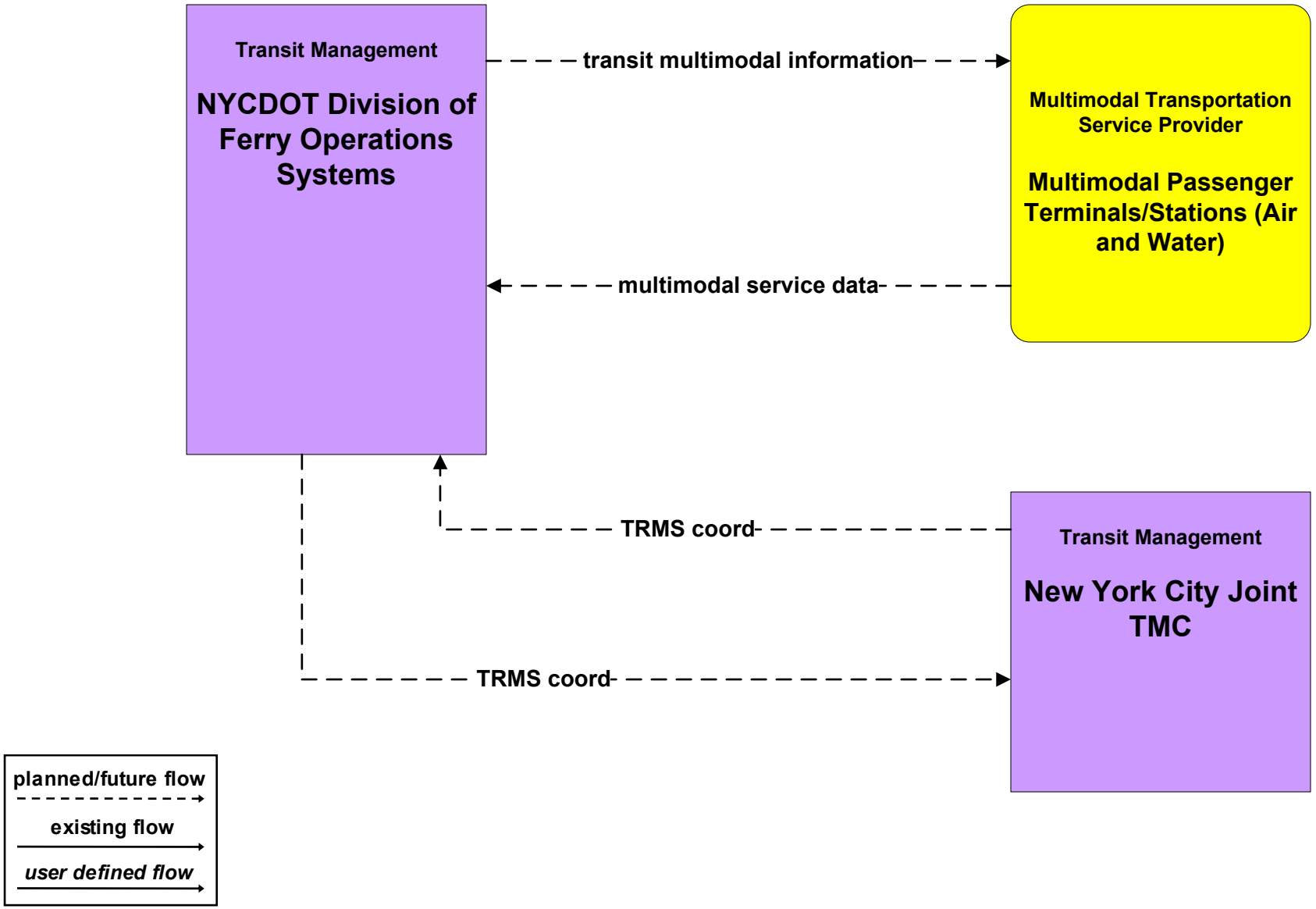
APTS7 - Multimodal Coordination
Regional Transit Information Exchange
NYCDOT Franchise Buses



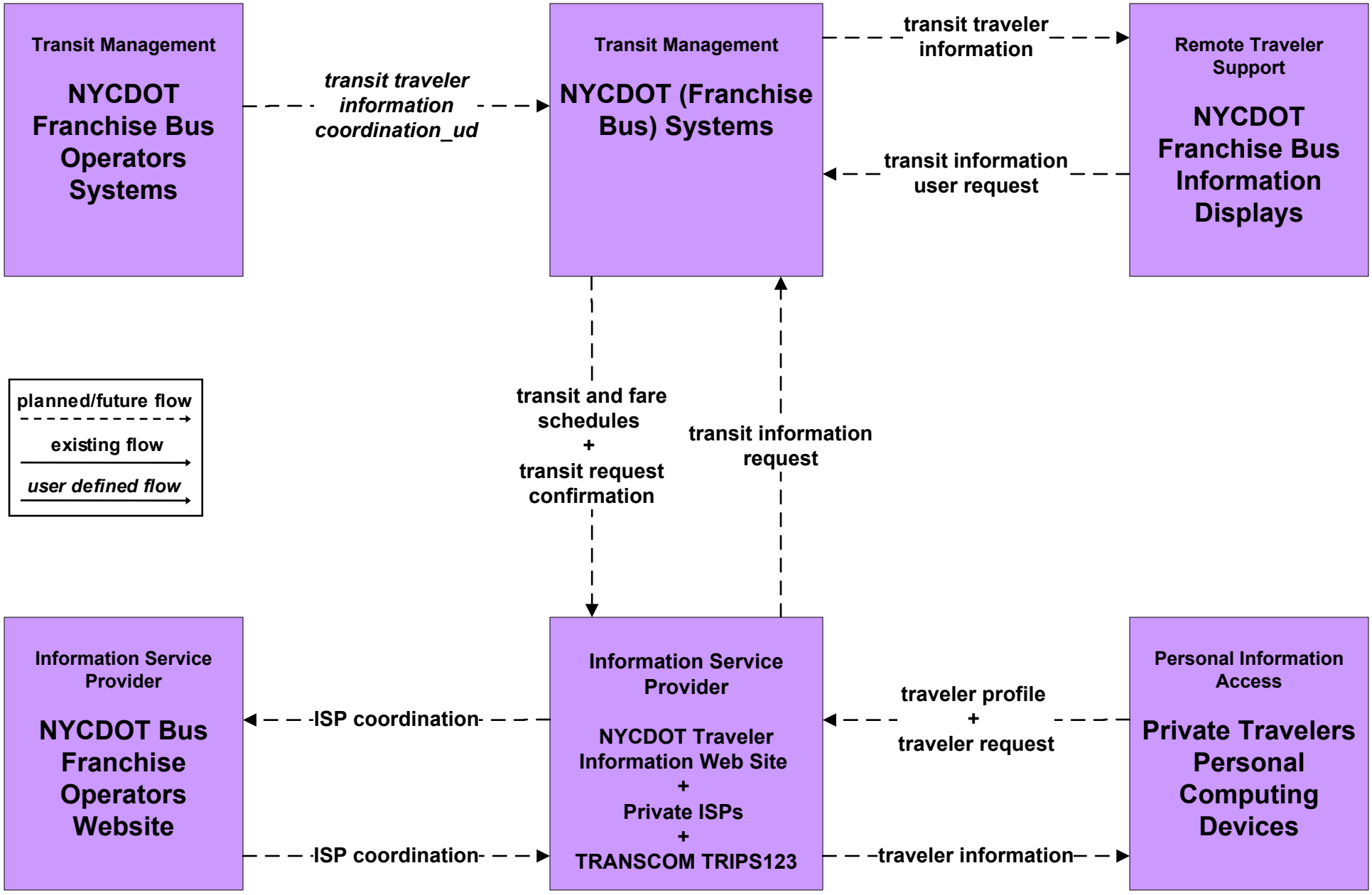
APTS7 - Multimodal Coordination
MTA NYC Transit Buses



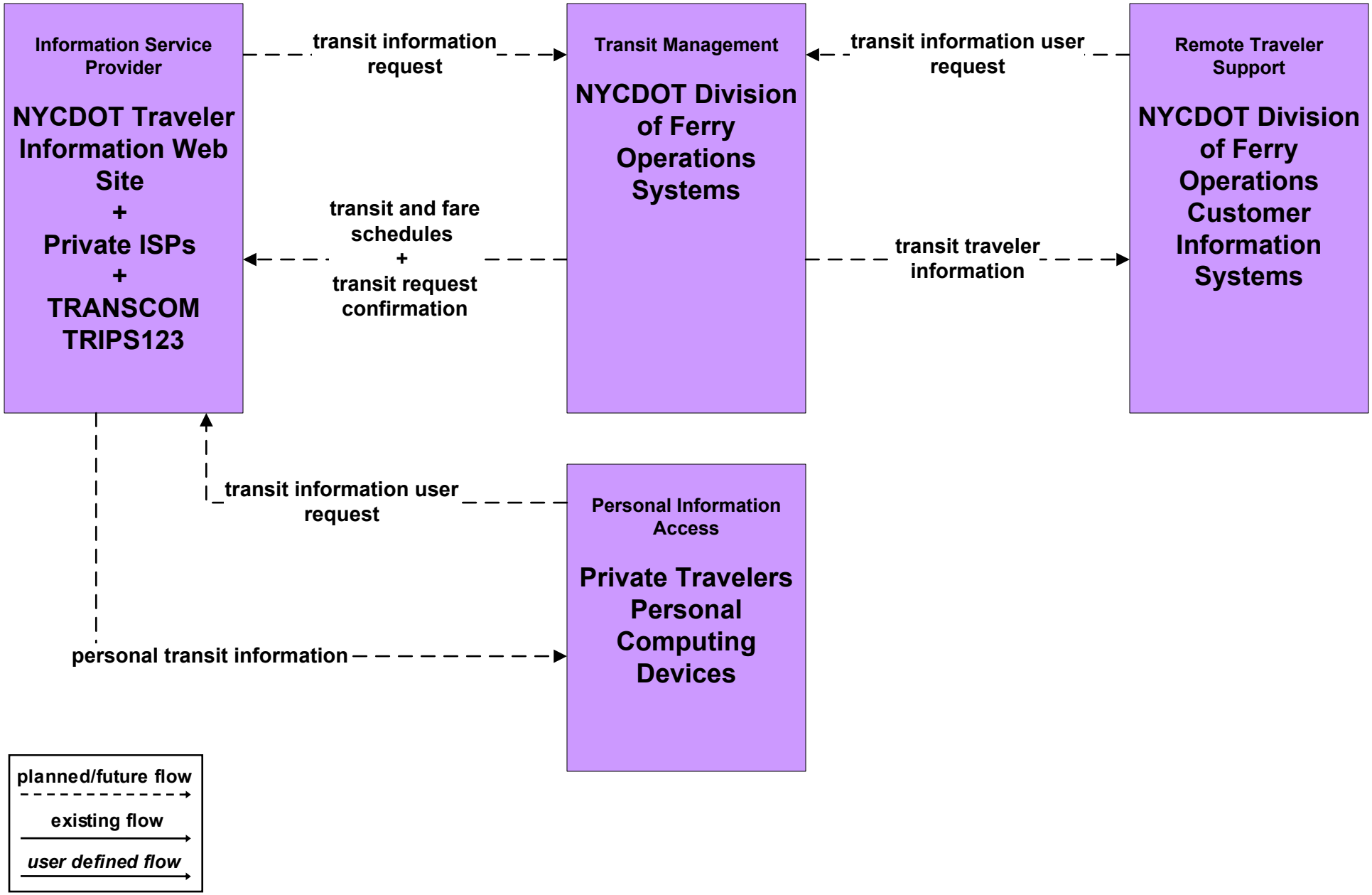
APTS7 - Multimodal Coordination
NYCDOT Division of Ferry Operations



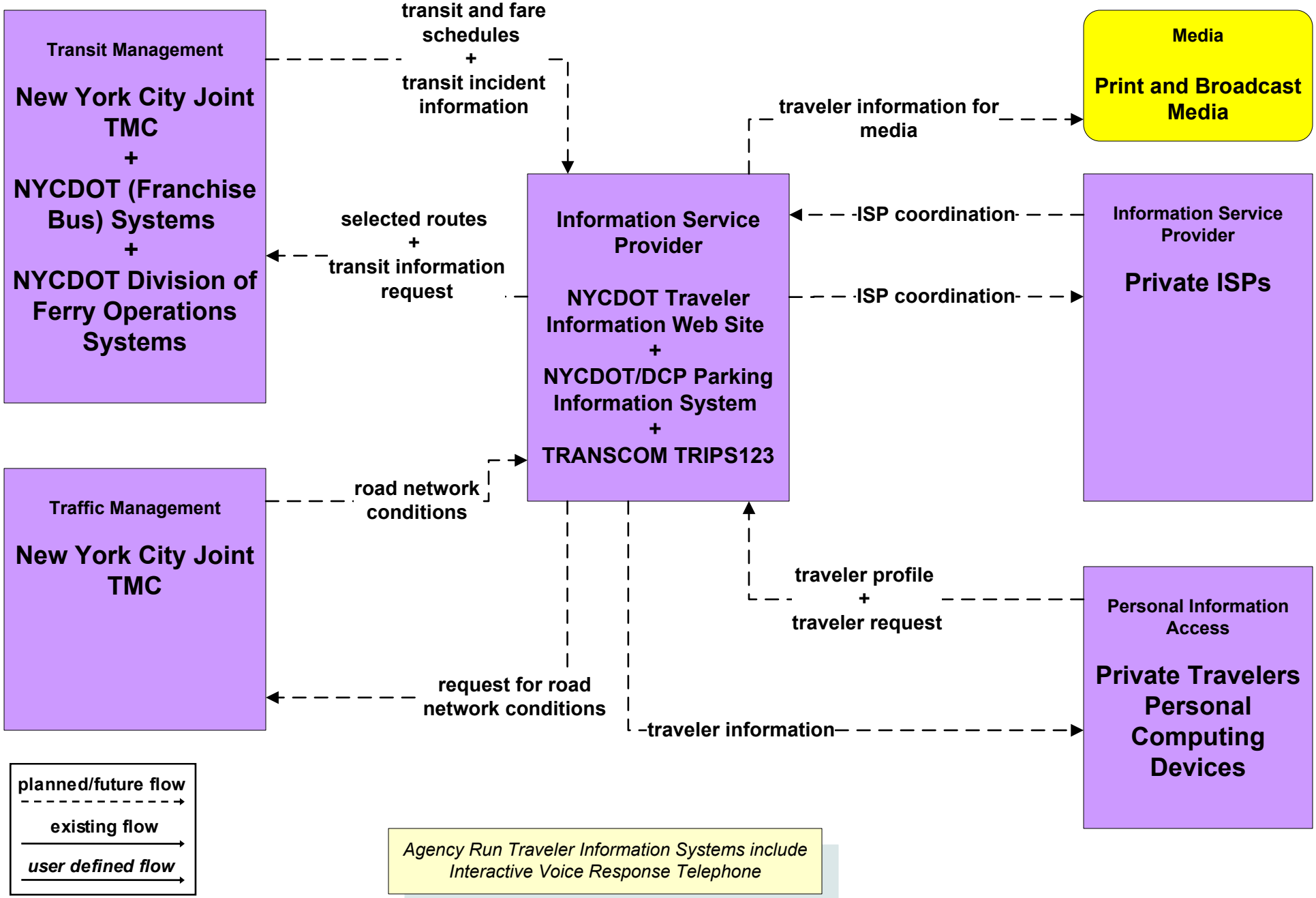
APTS8 - Transit Traveler Information
NYCDOT Franchise Bus



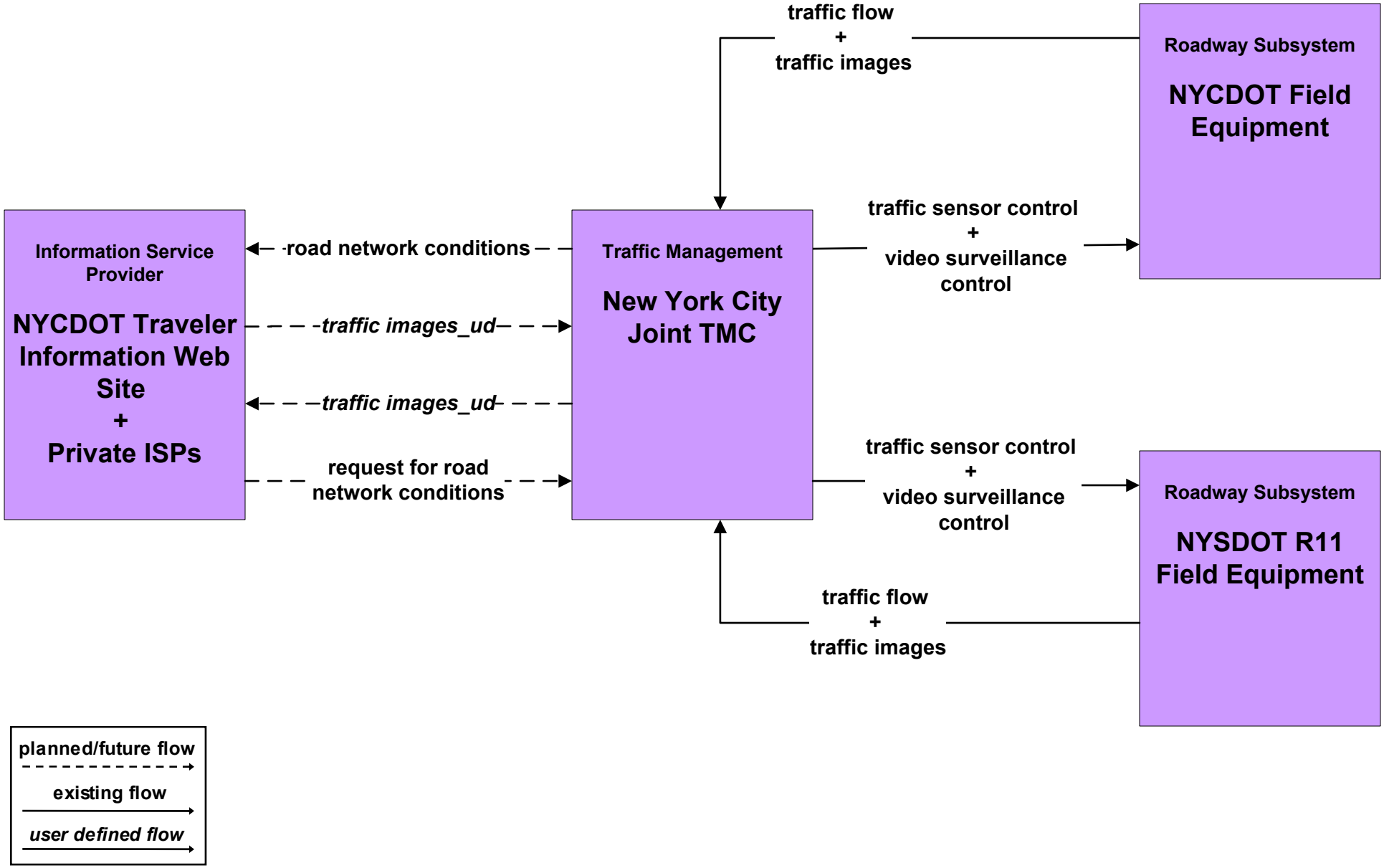
APTS8 - Transit Traveler Information
NYCDOT Ferries and Licensed Ferries



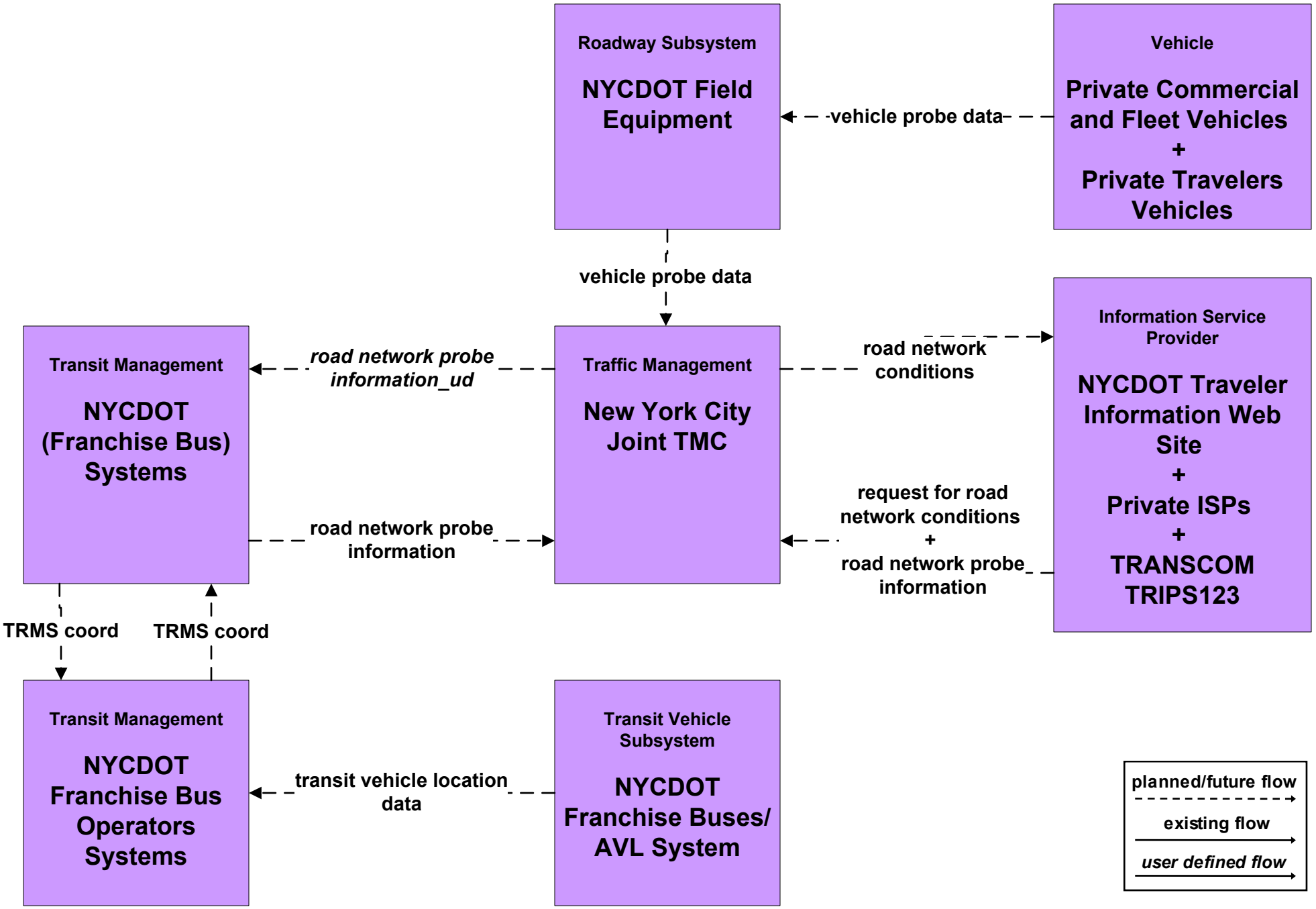
ATIS2 - Interactive Traveler Information
NYCDOT Traveler Information Systems



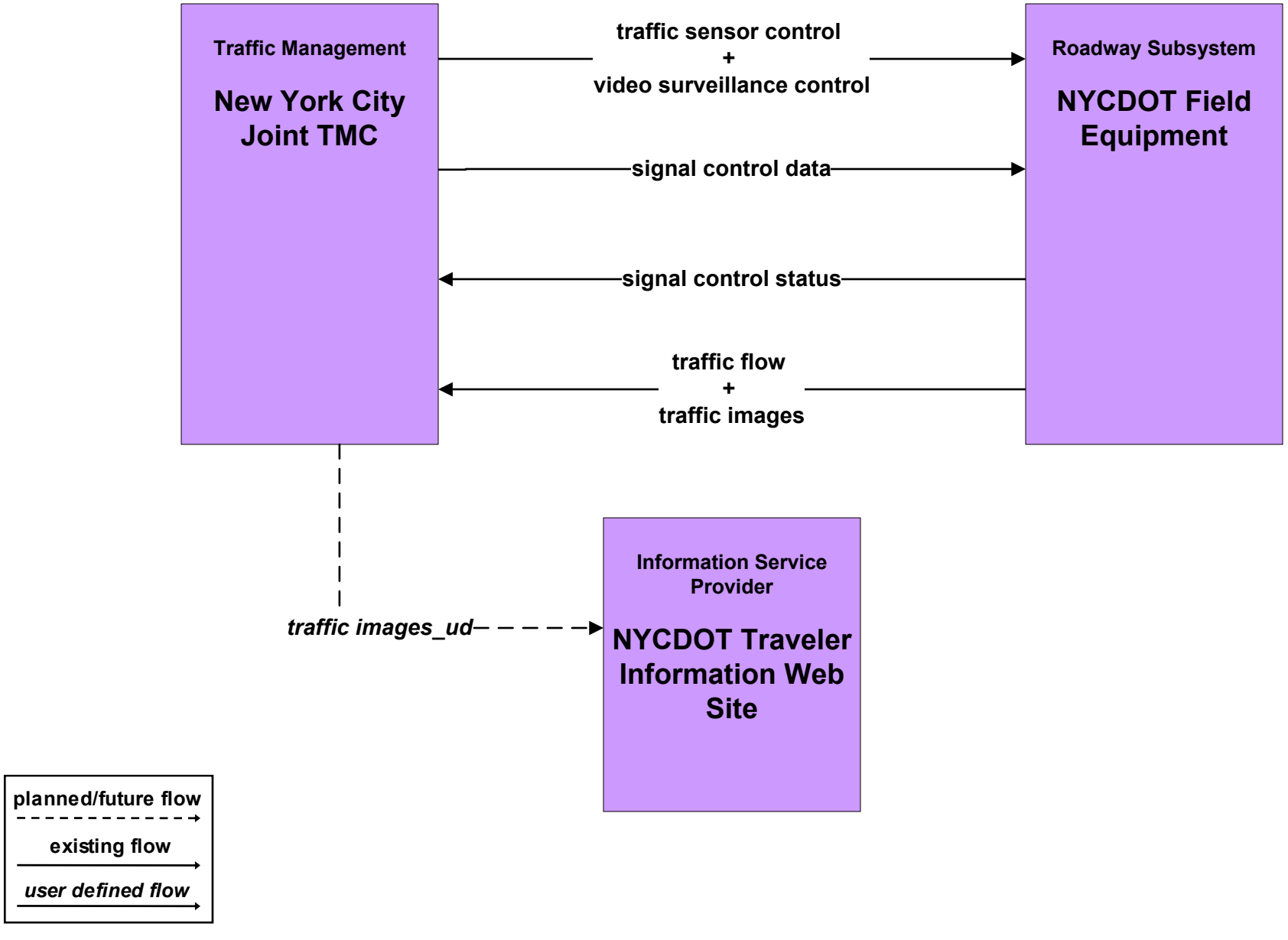
ATMS01 - Network Surveillance
New York City Joint TMC



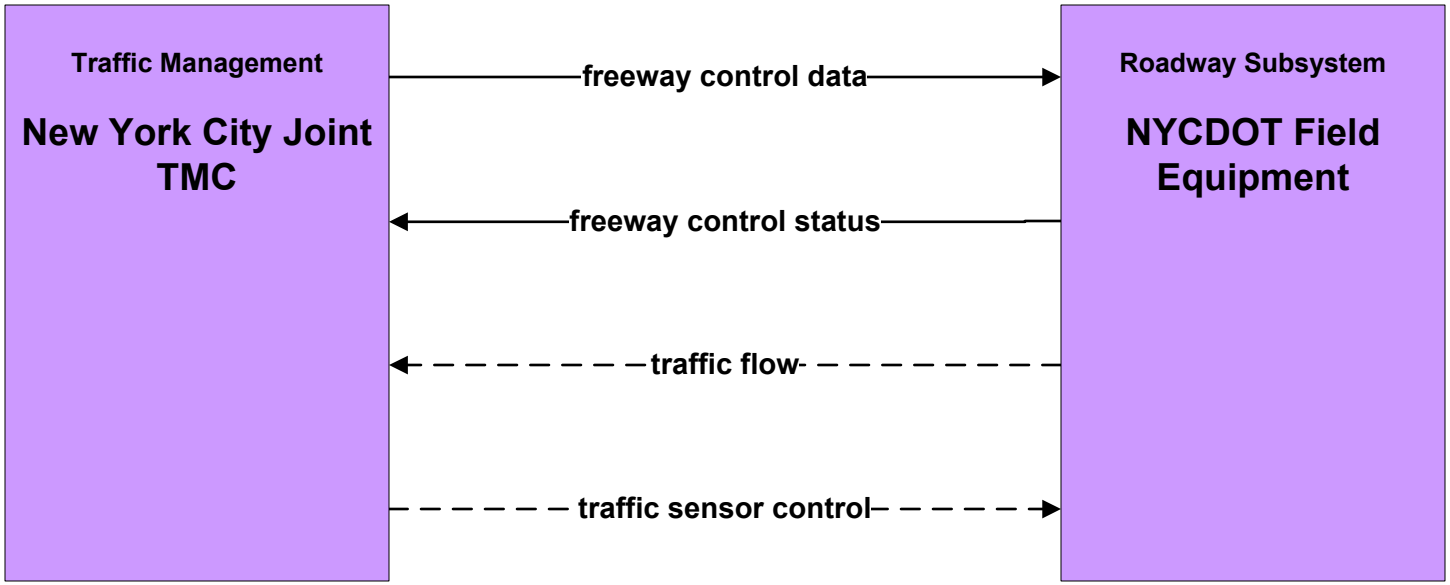
ATMS02 - Probe Surveillance
New York City Joint TMC



ATMS03 - Surface Street Control
NYCDOT



ATMS04 - Freeway Control
NYCDOT

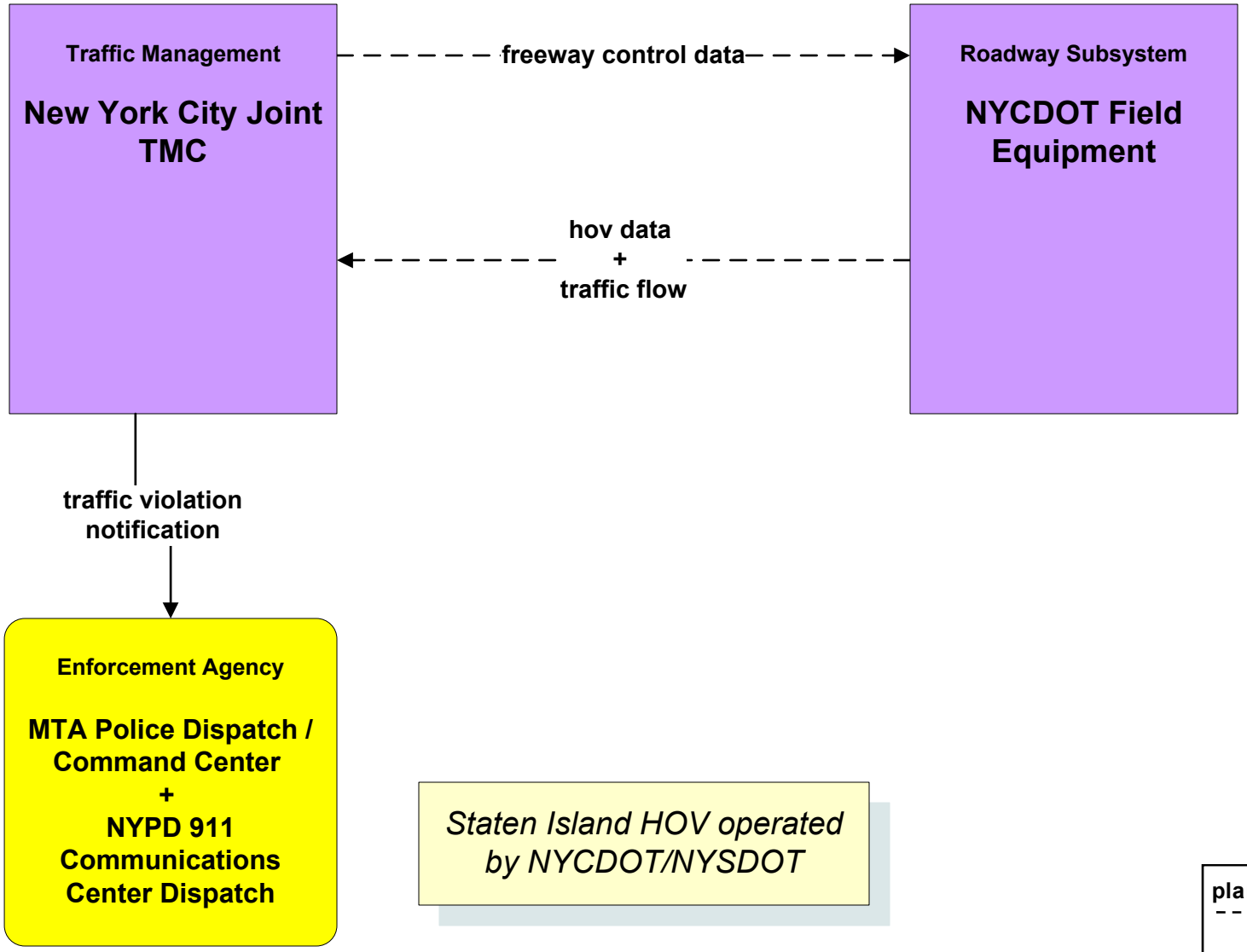


planned/future flow

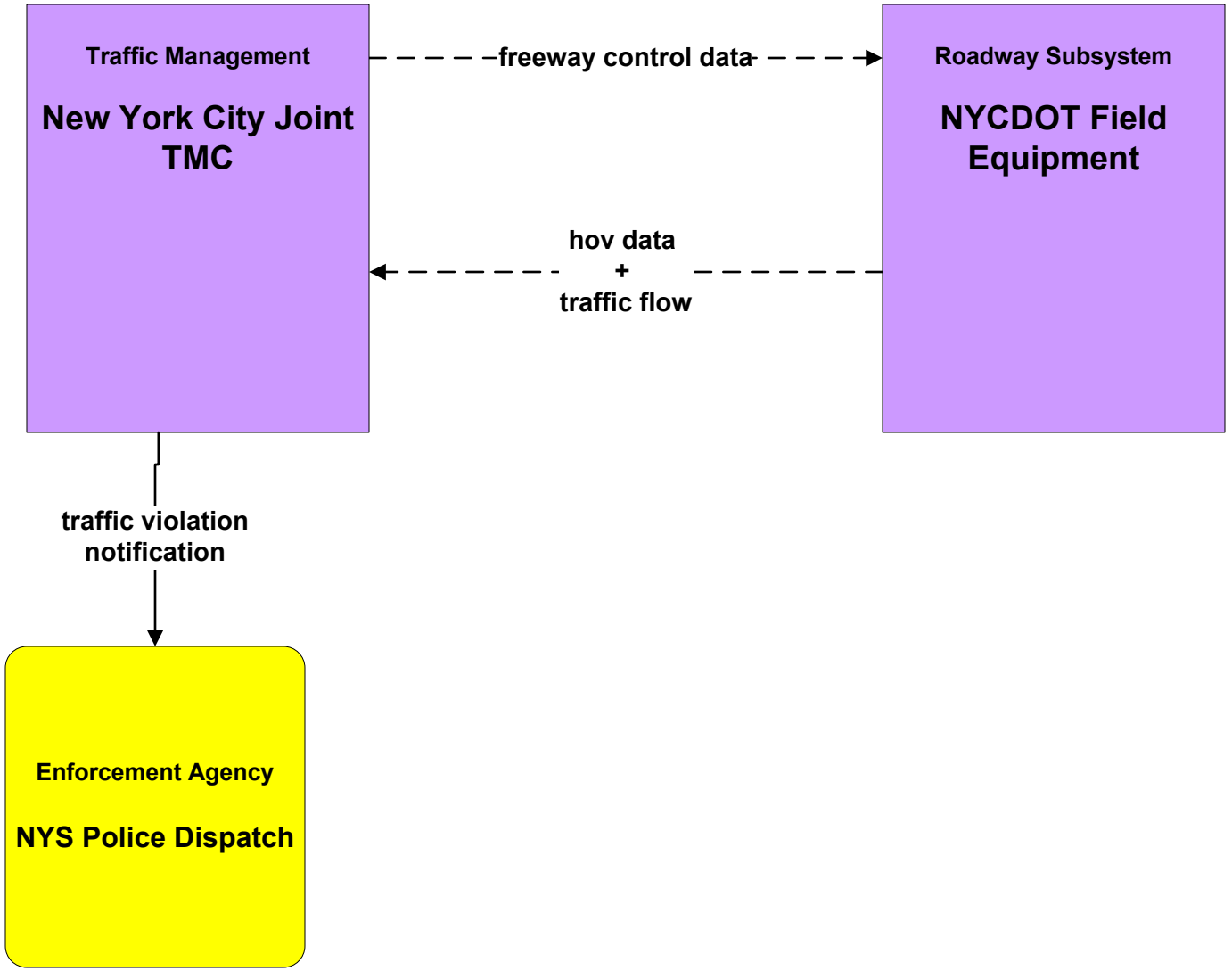
existing flow

user defined flow

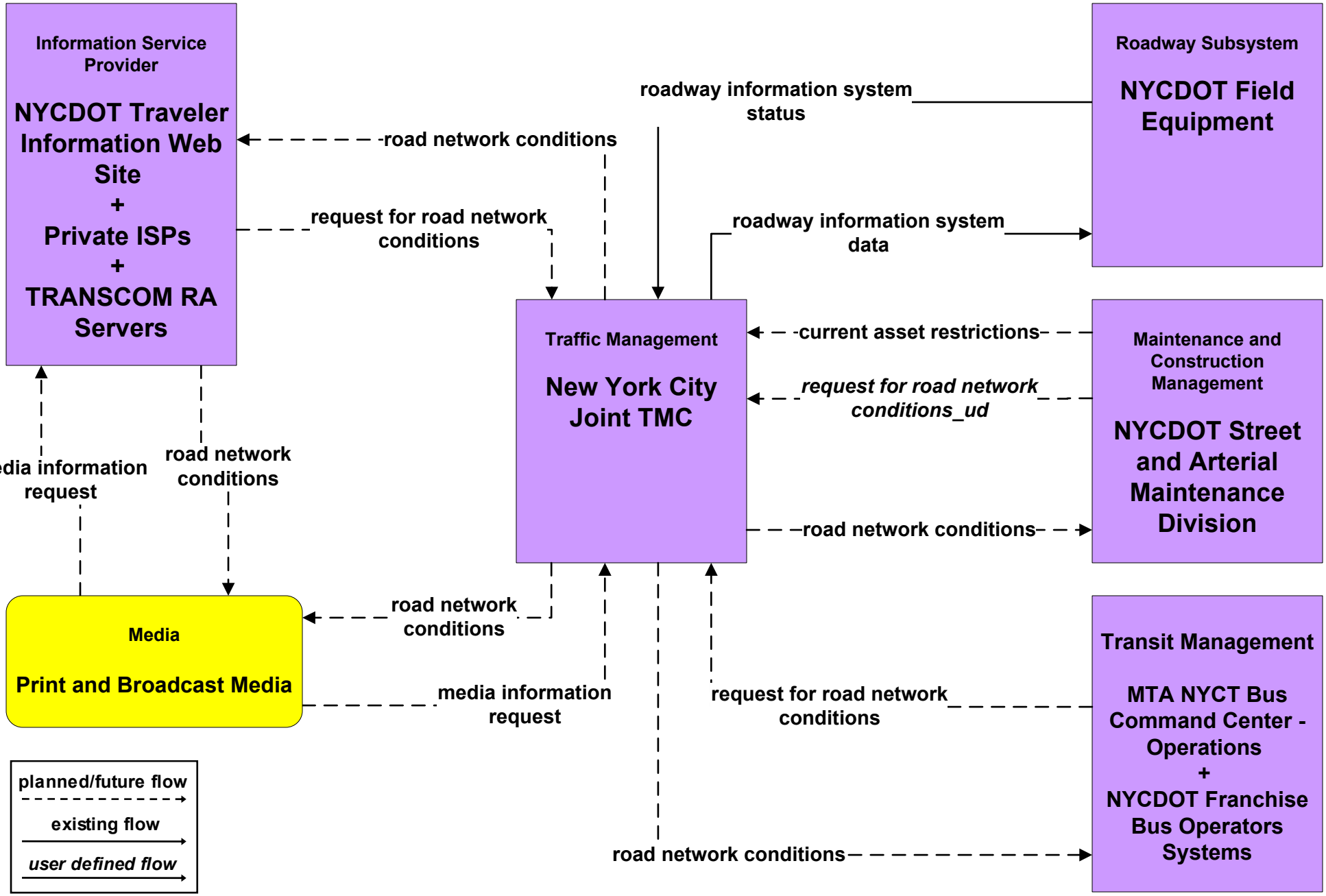
ATMS05 - HOV Lane Management
NYCDOT - LIE/BQE/SIE HOV



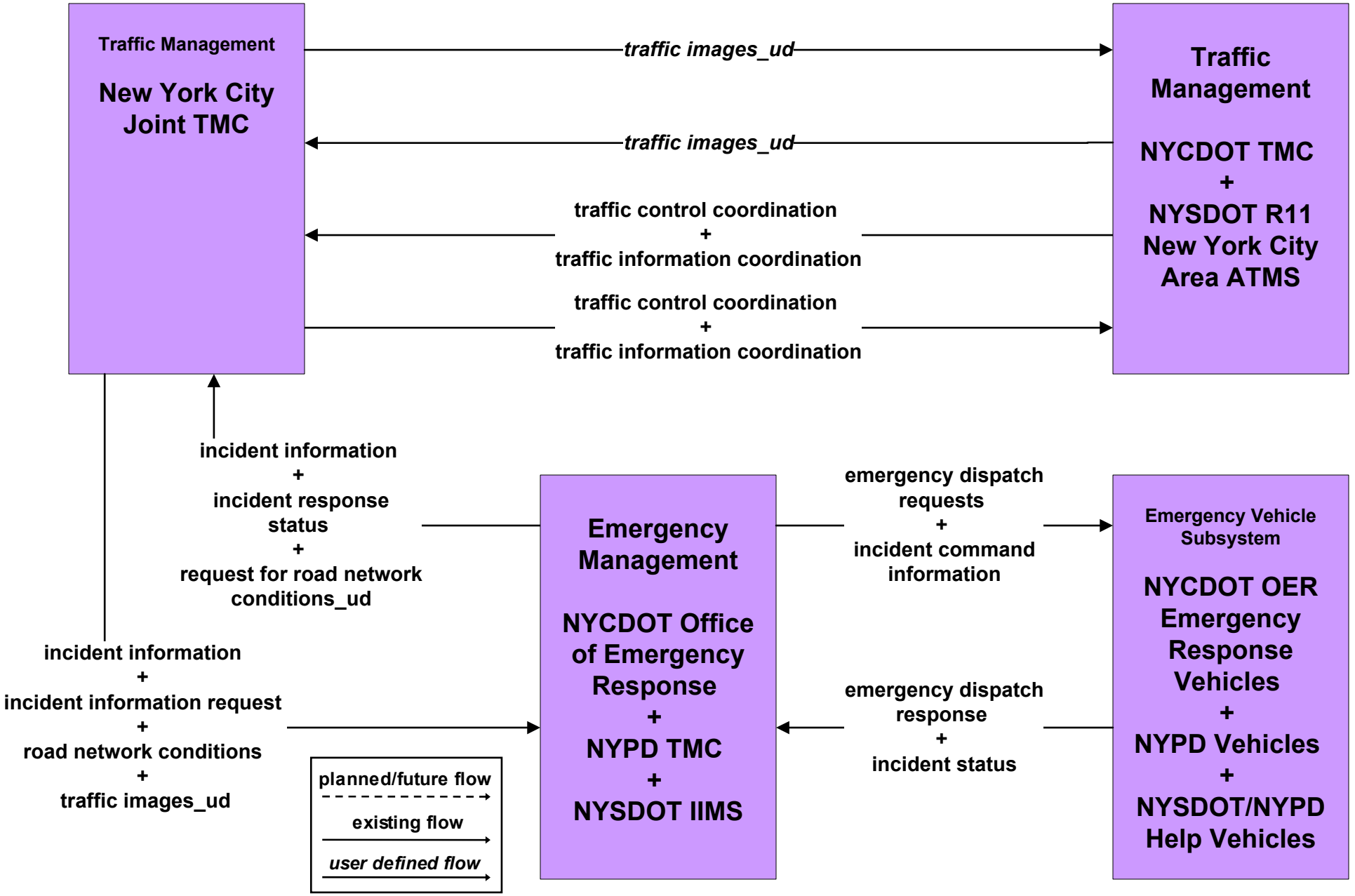
ATMS05 - HOV Lane Management
NYCDOT - East River Bridge Crossings HOV



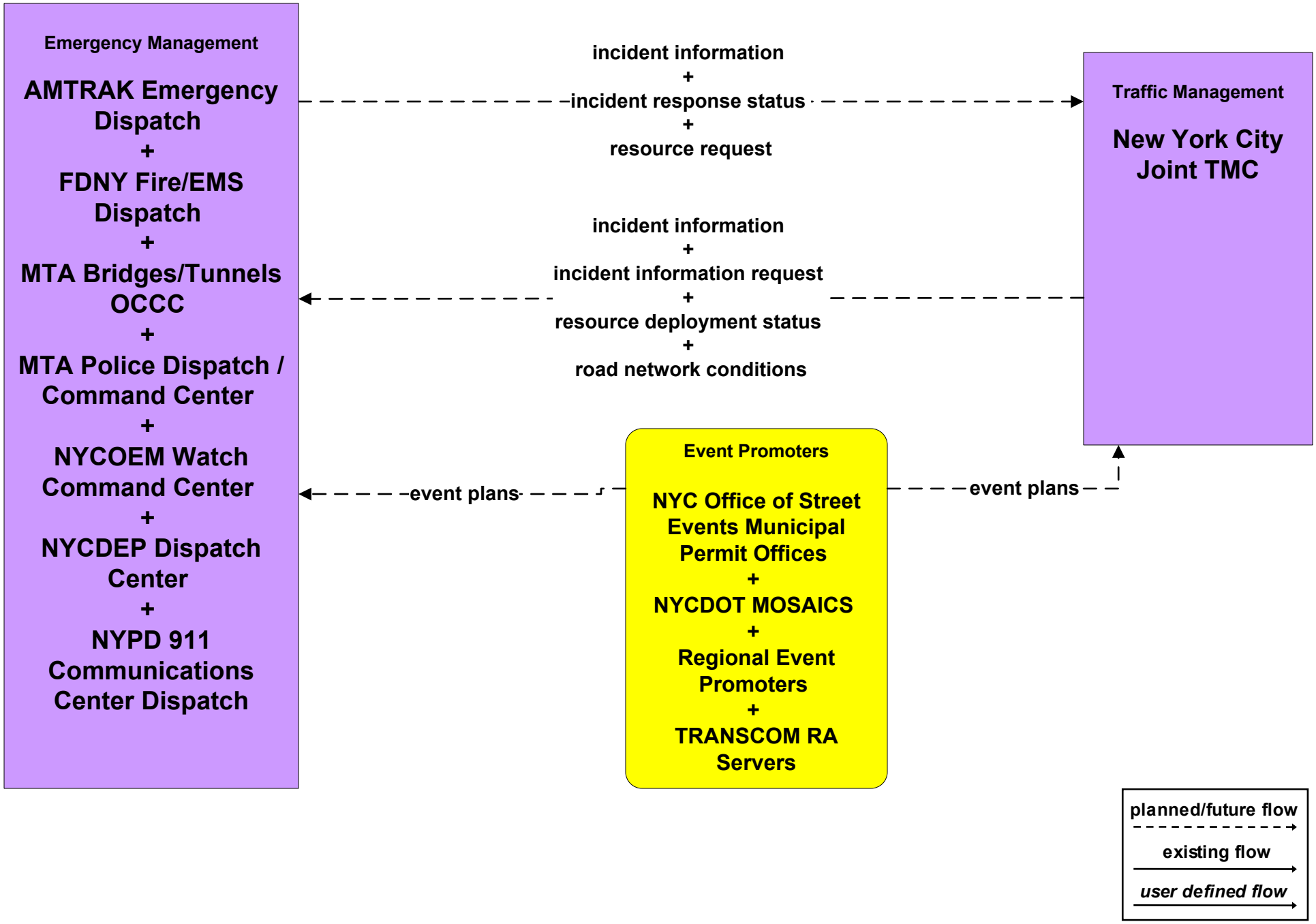
ATMS06 - Traffic Information Dissemination
New York City Joint TMC



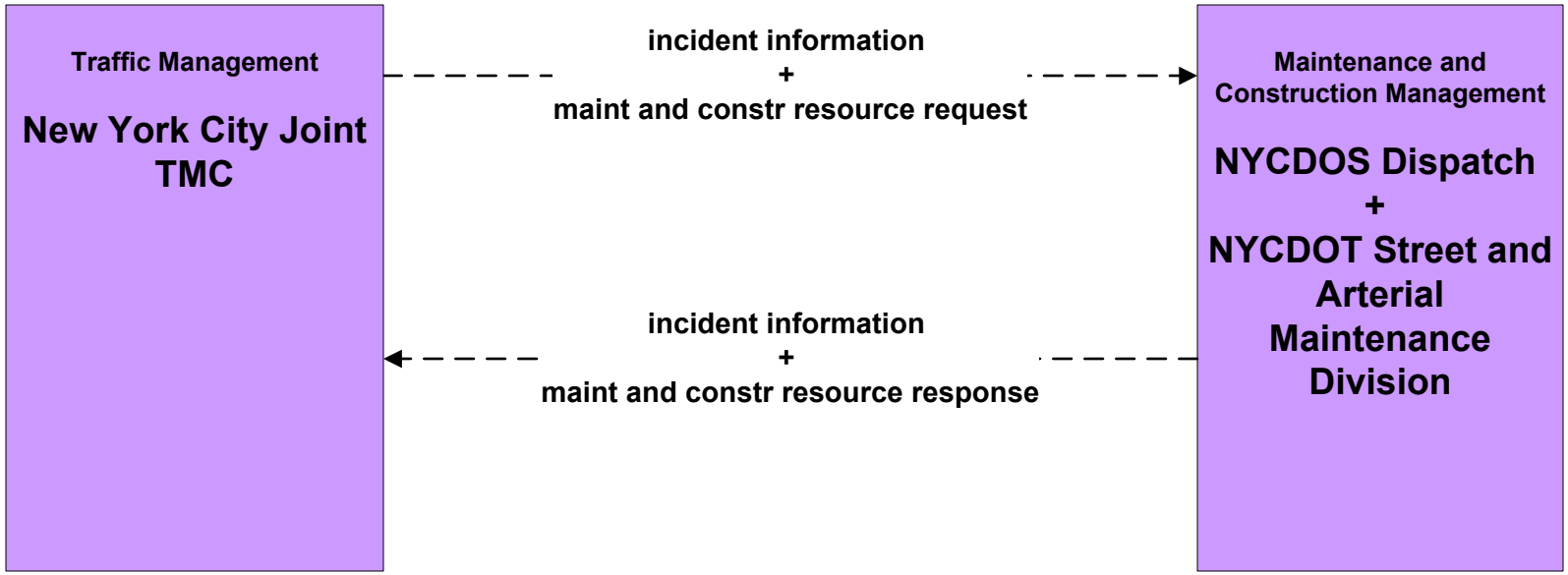
ATMS07 - Regional Traffic Control
New York City Joint TMC (1 of 2)



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



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

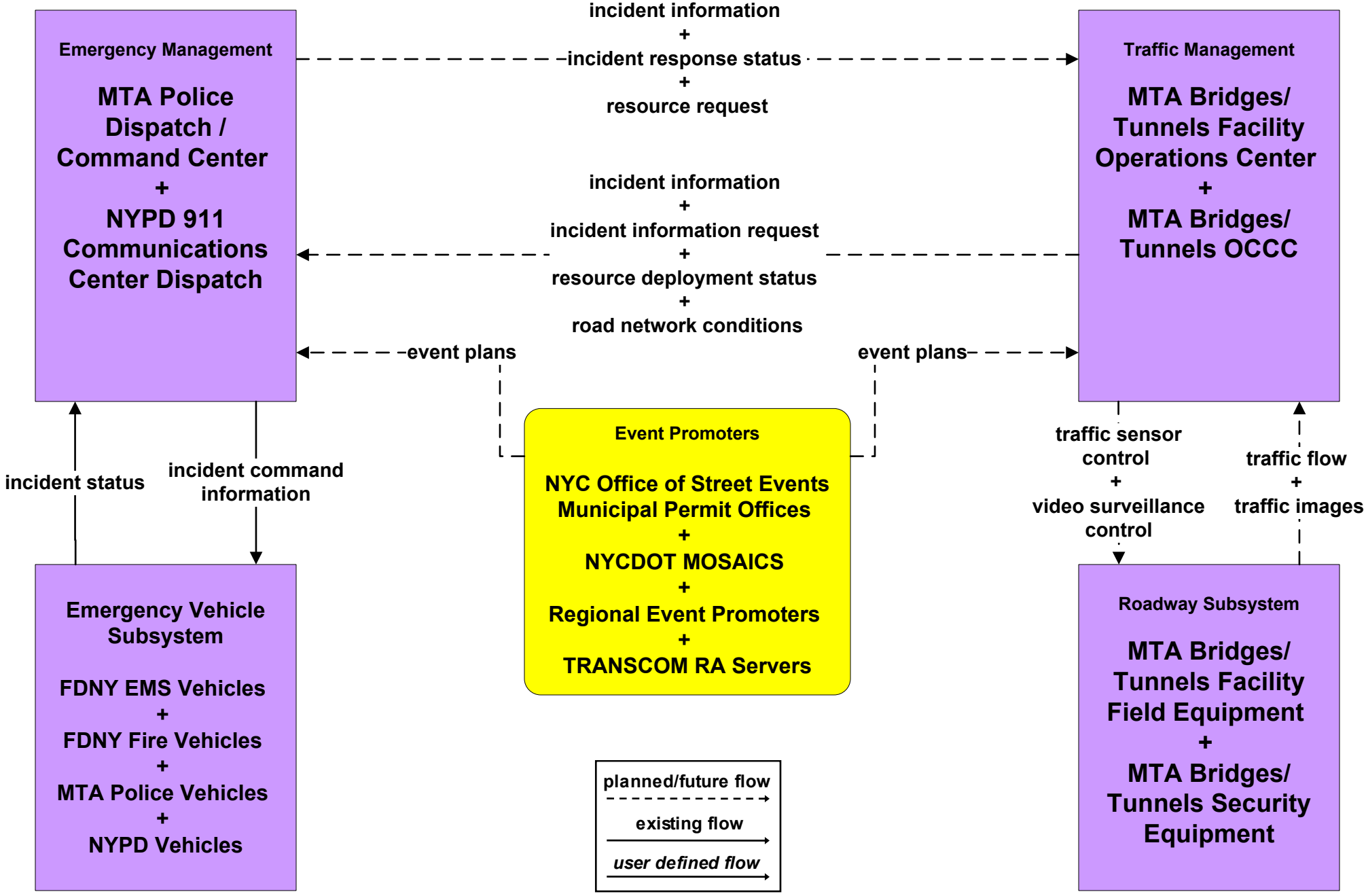


planned/future flow

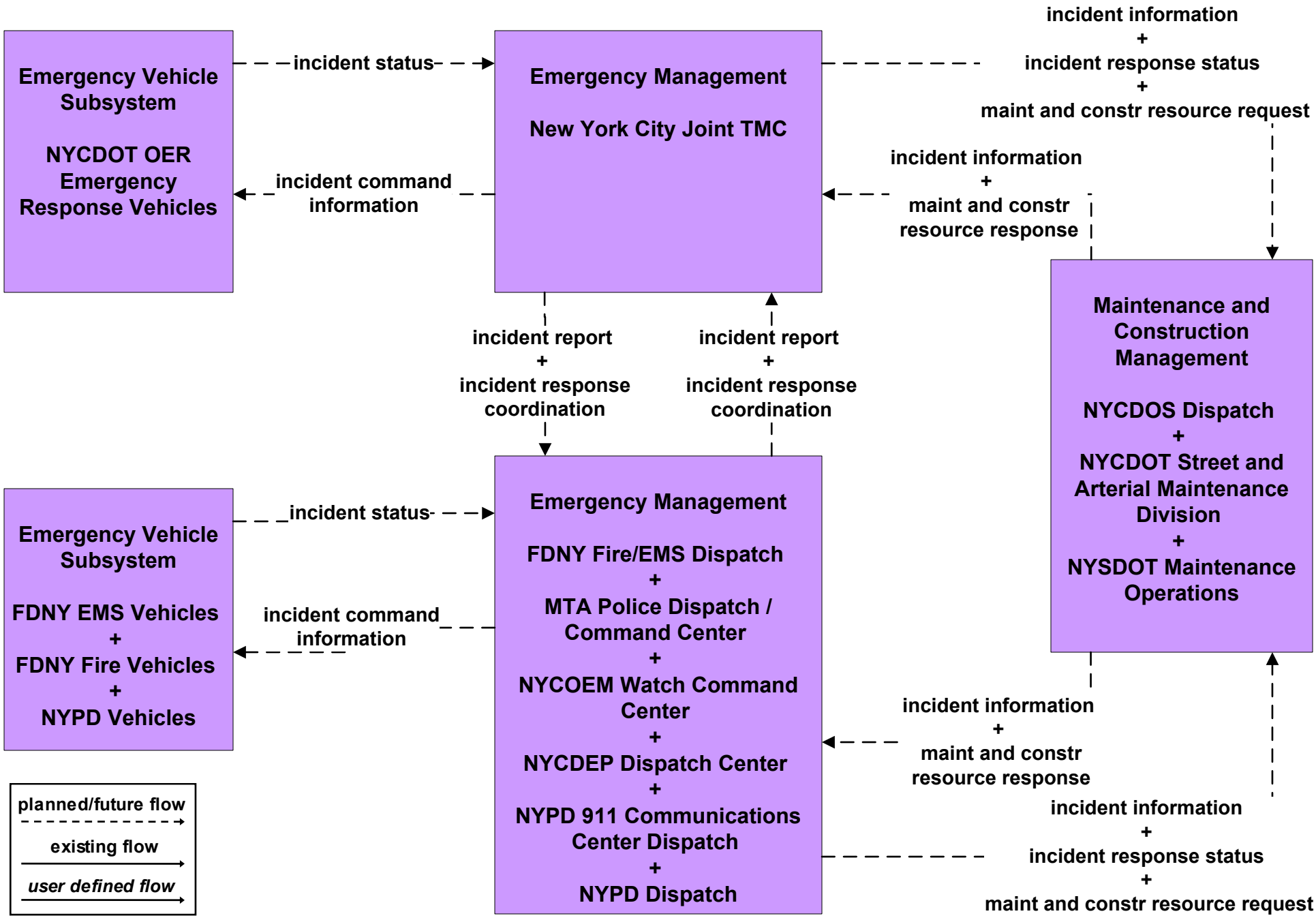
existing flow

user defined flow

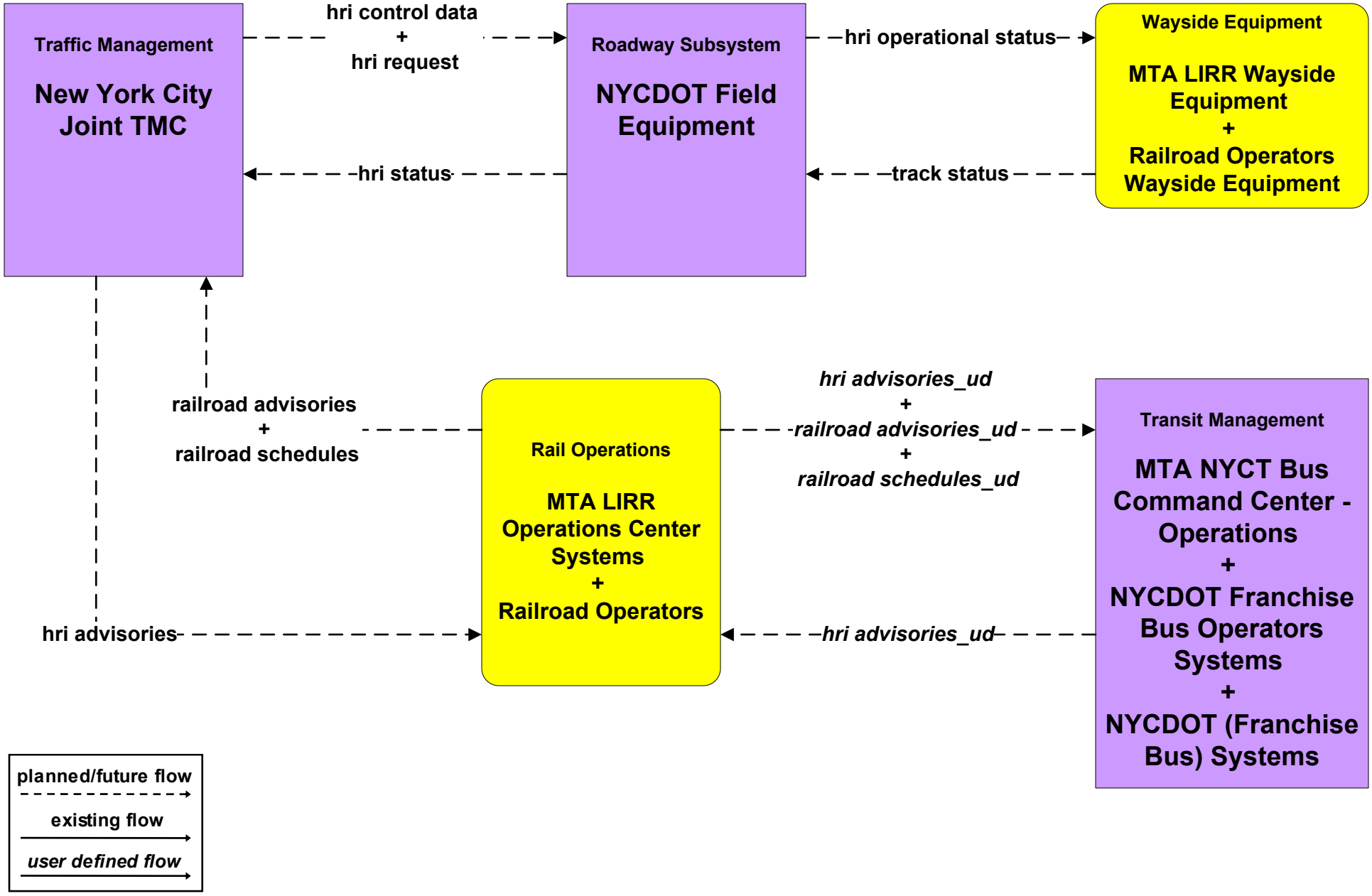
ATMS08 - Incident Management
MTA Bridges and Tunnels



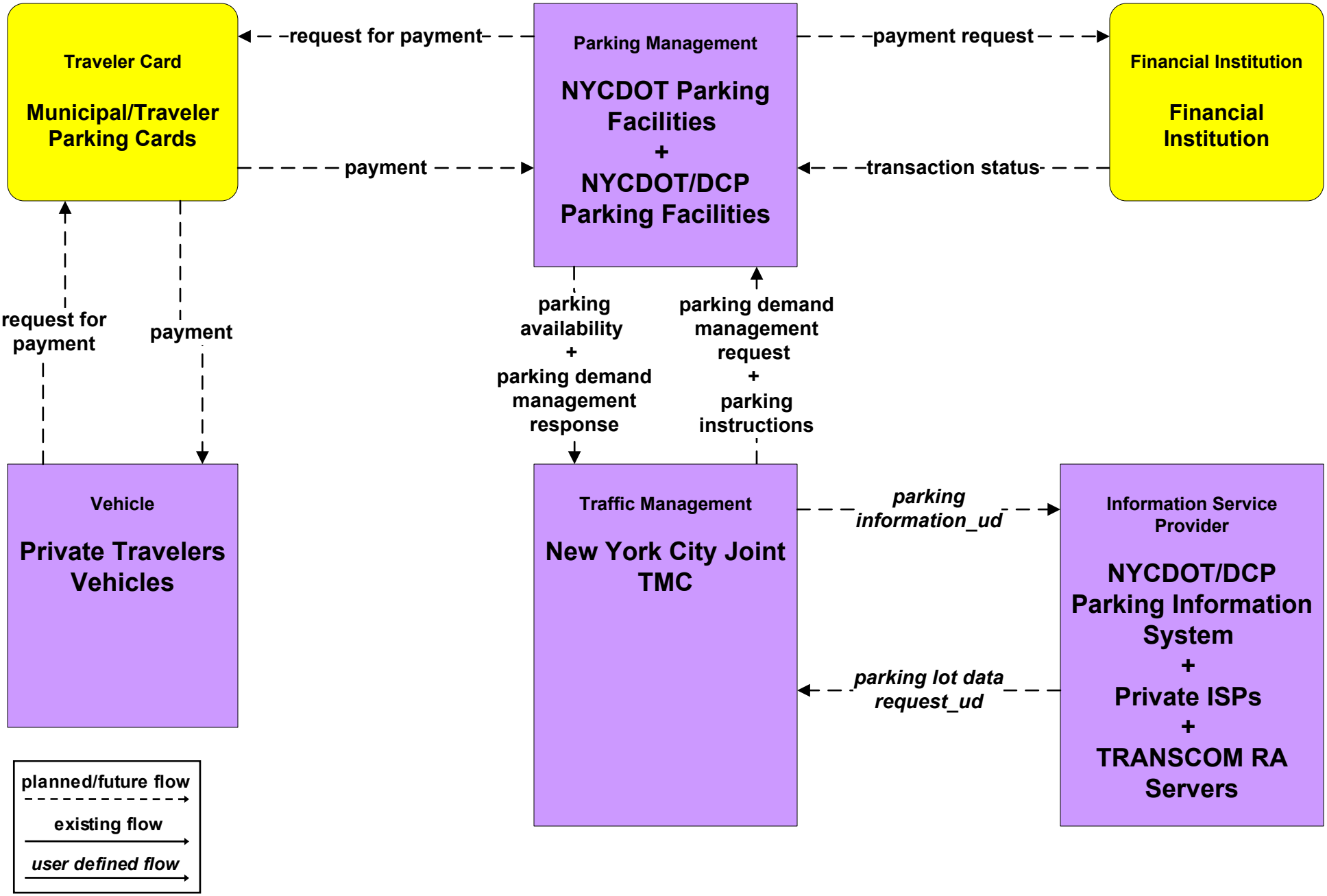
ATMS08 - Incident Management
IIMS



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

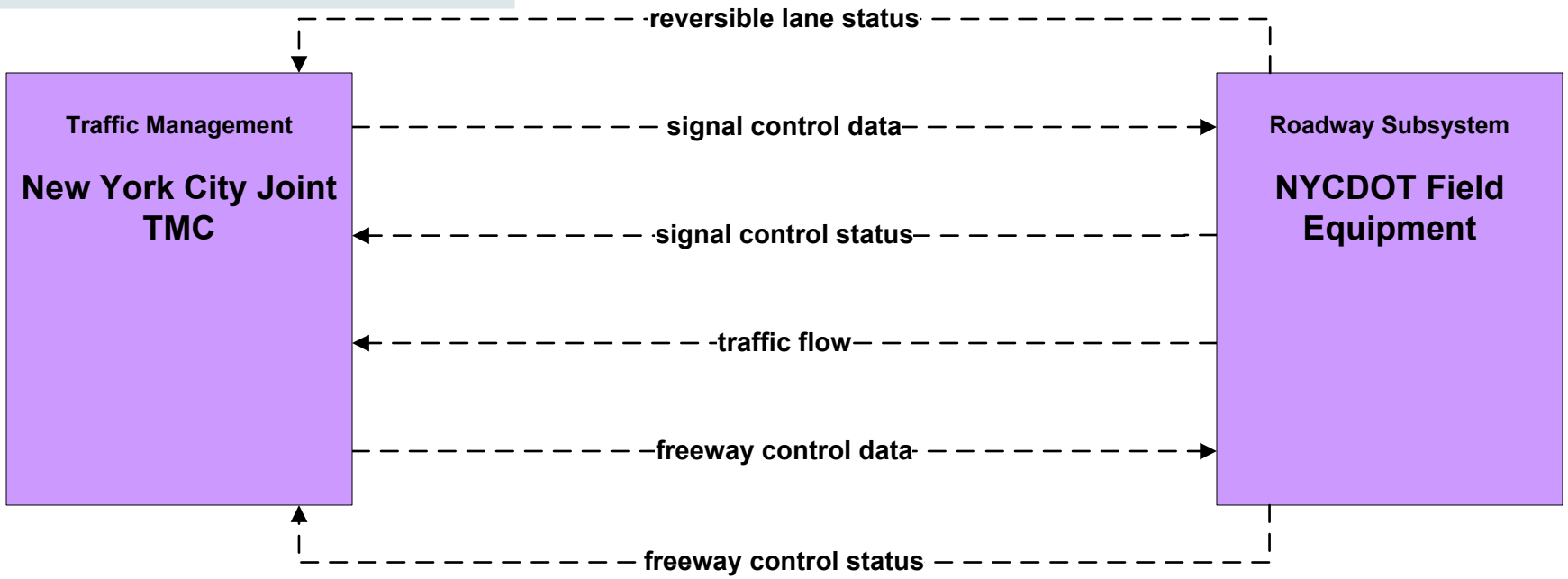


ATMS16 - Parking Facility Management
NYCDOT DOT/DCP



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

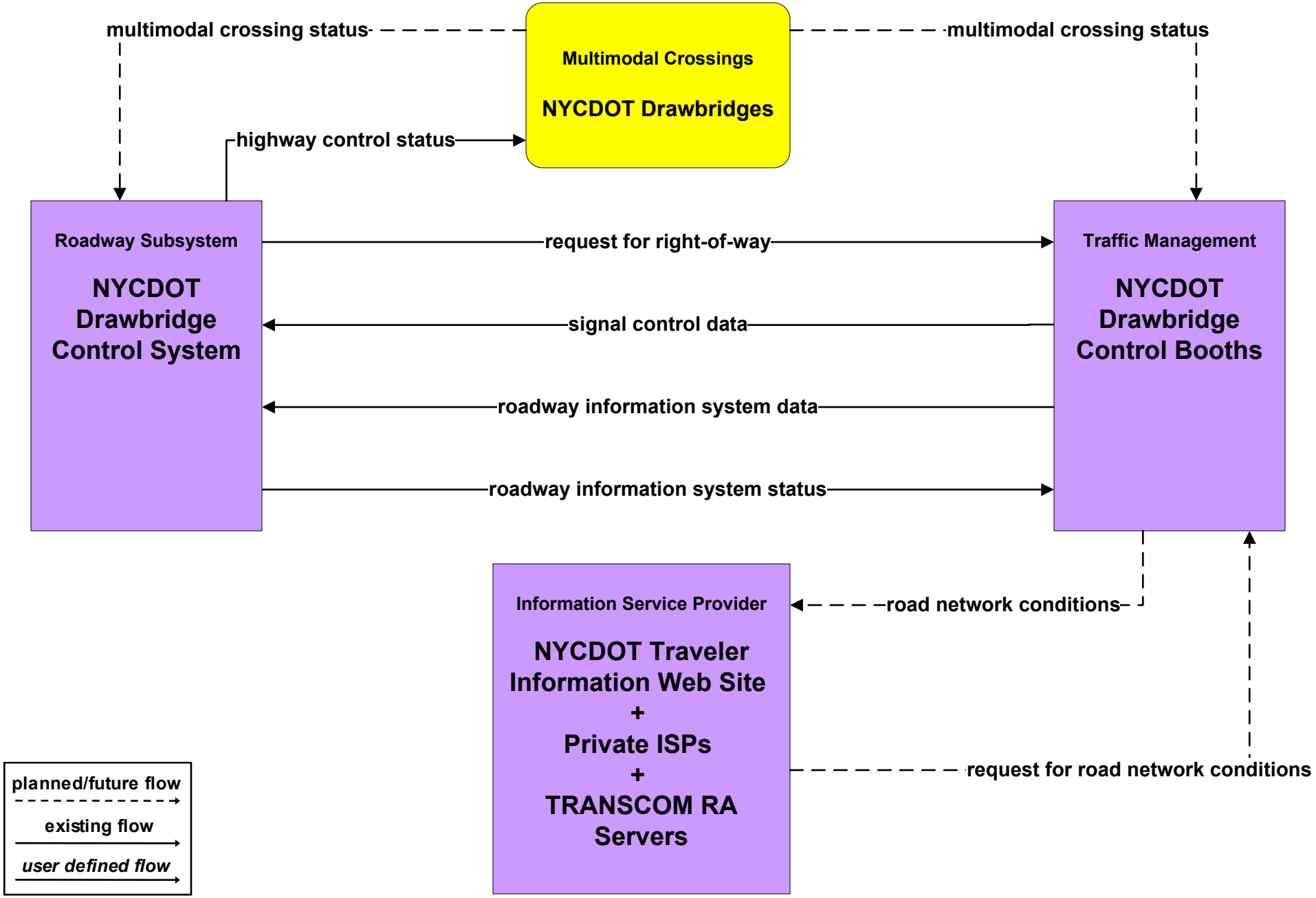


planned/future flow

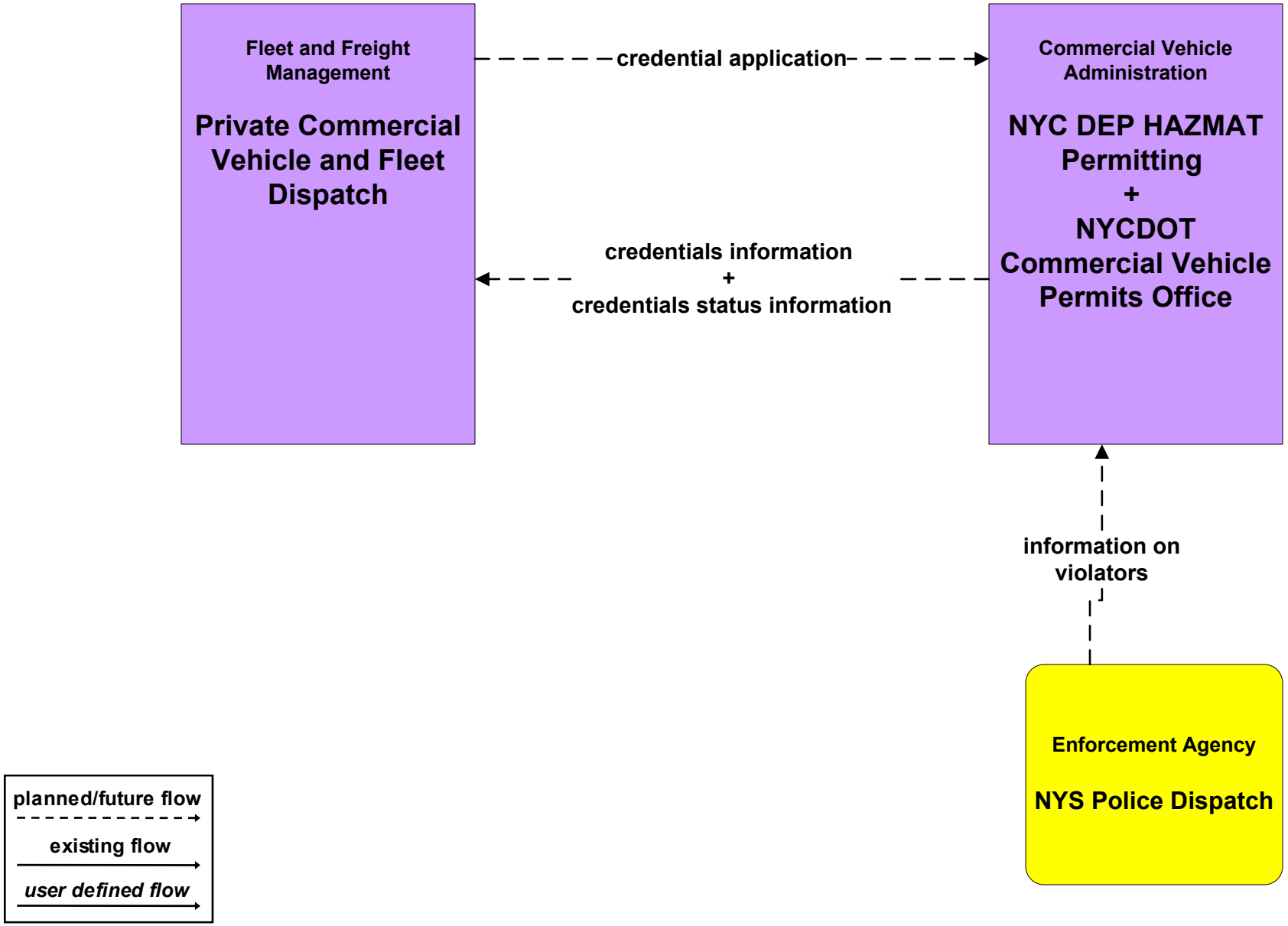
existing flow

user defined flow

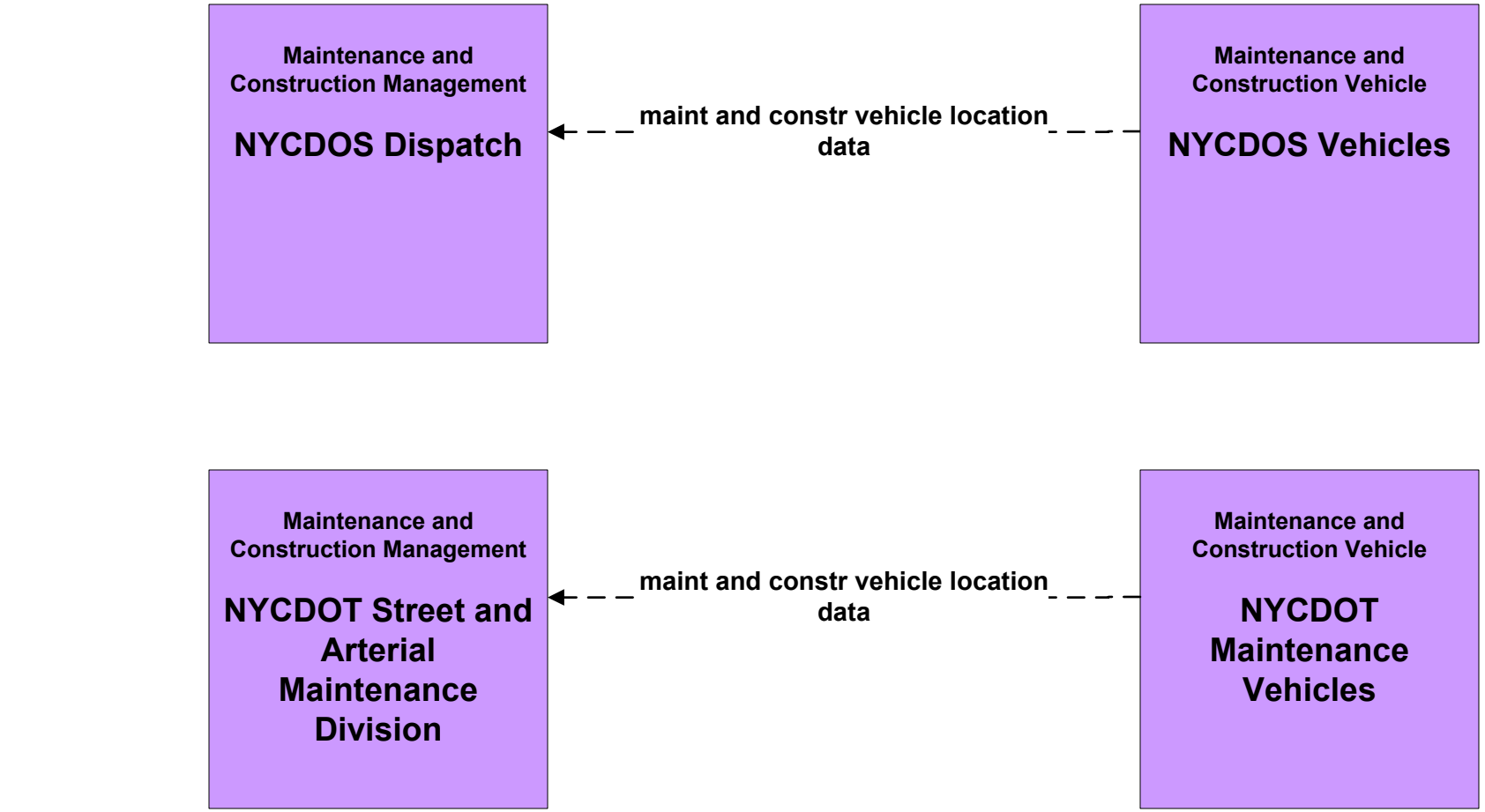
ATMS20 - Drawbridge Management
NYC DOT



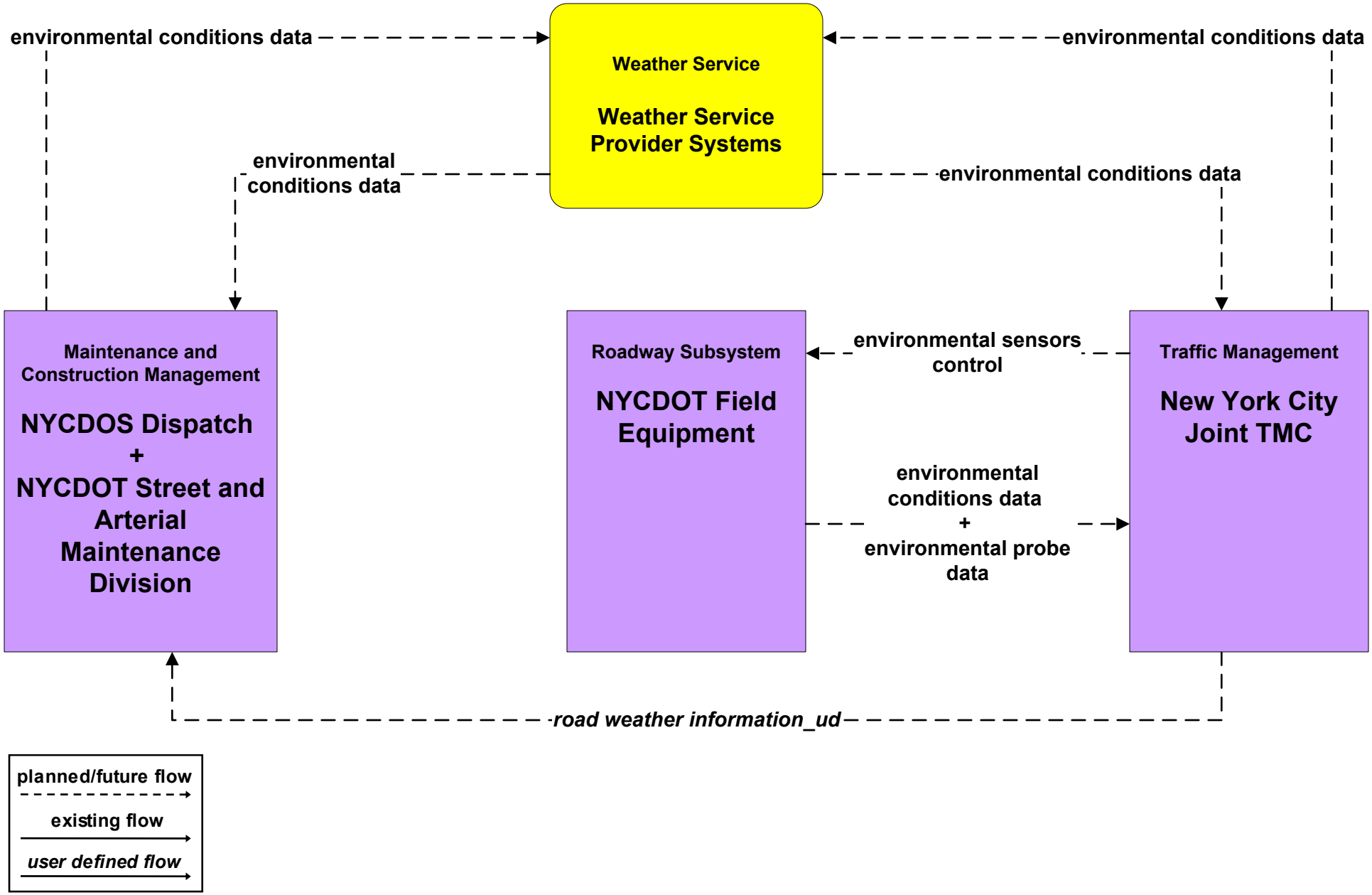
CVO04 - CV Administrative Processes
New York City Oversize/Overweight Permit Office



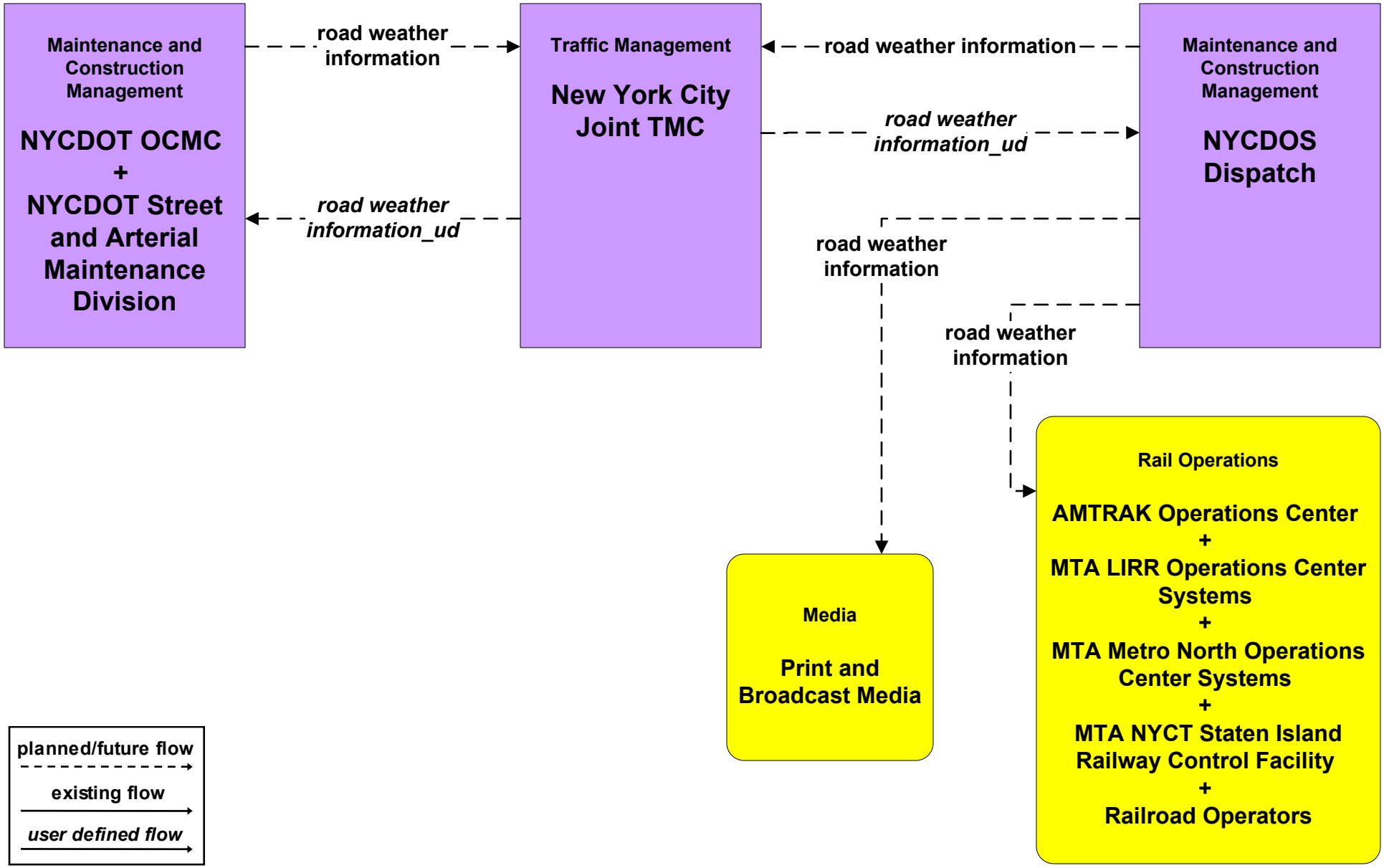
MC01 - Maintenance and Construction Vehicle Tracking
New York City DOS/DOT



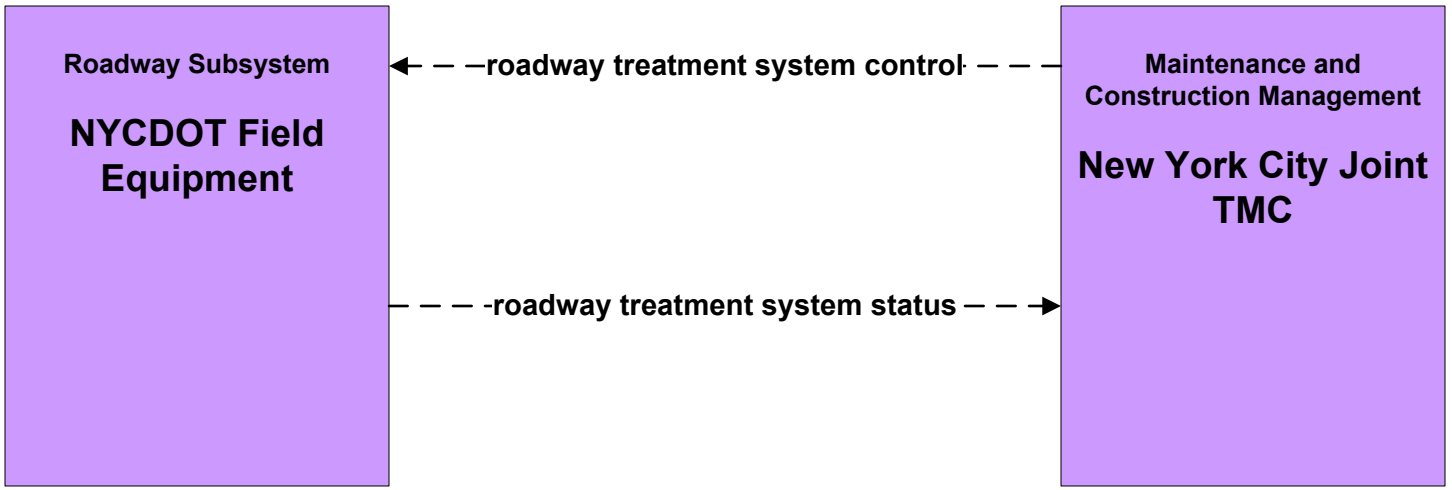
MC03 - Road Weather Data Collection
NYCDOT



MC04 - Weather Information Processing and Distribution
New York City Joint TMC (1 of 2)



MC05 - Roadway Automated Treatment
New York City Joint TMC

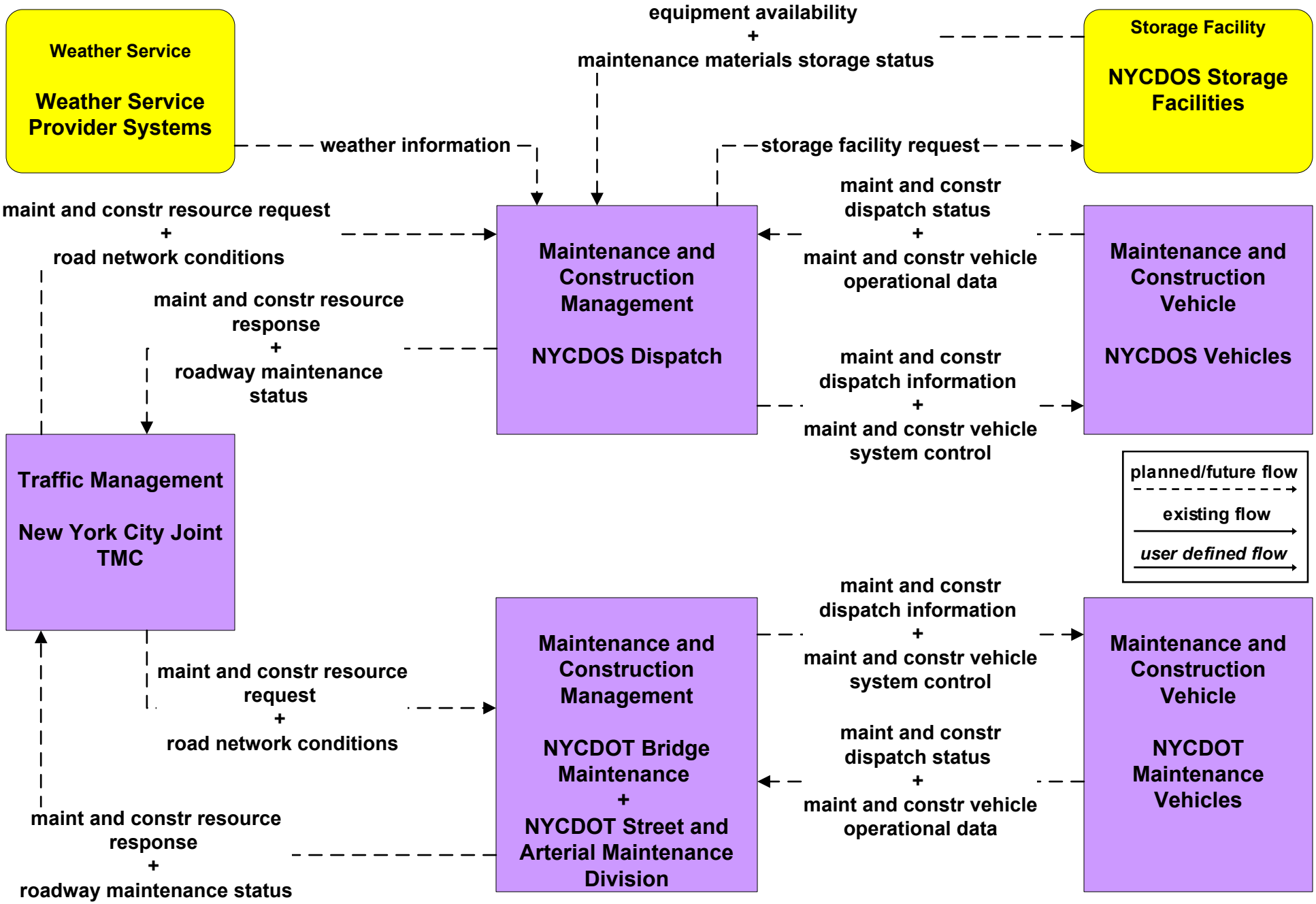


planned/future flow

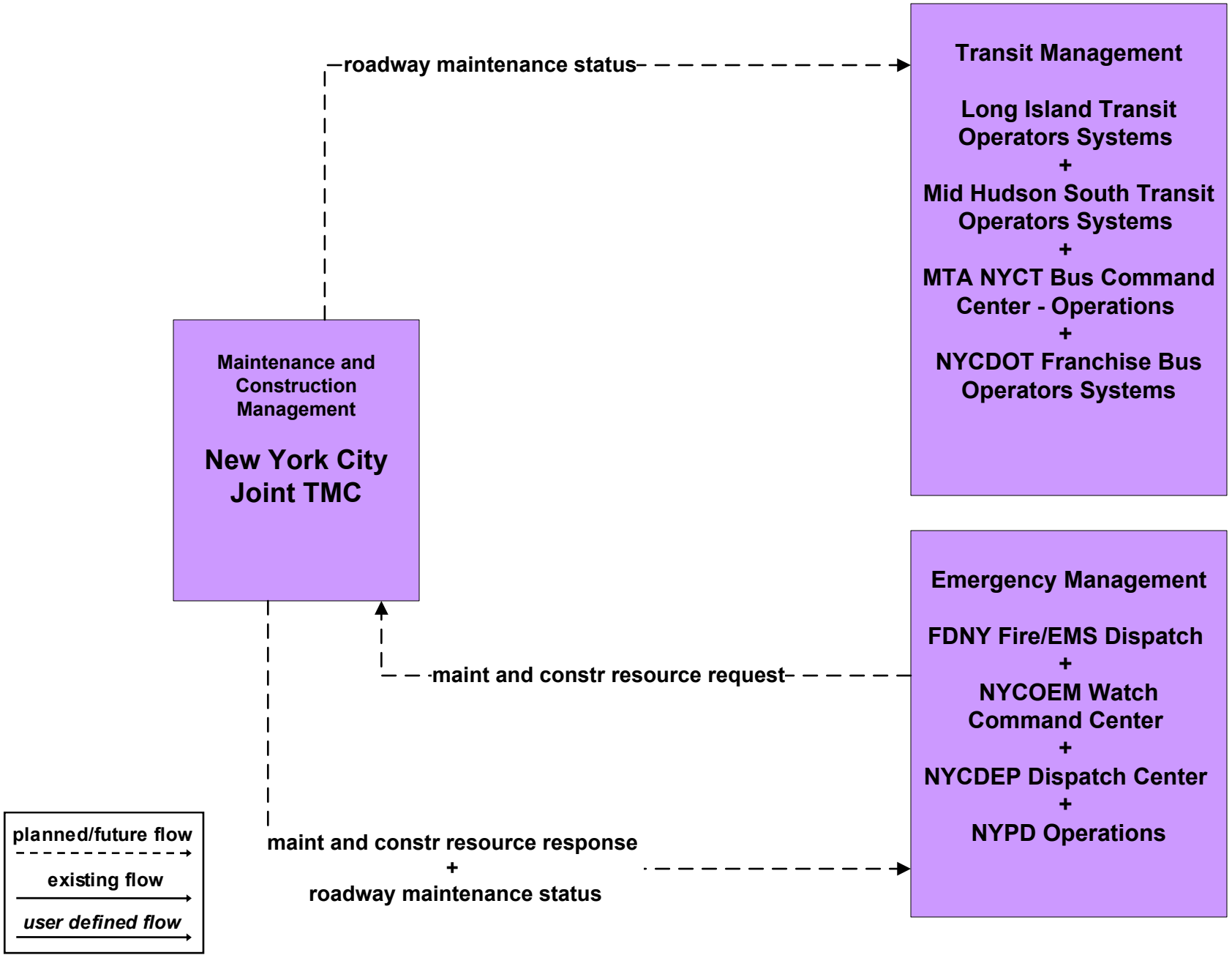
existing flow

user defined flow

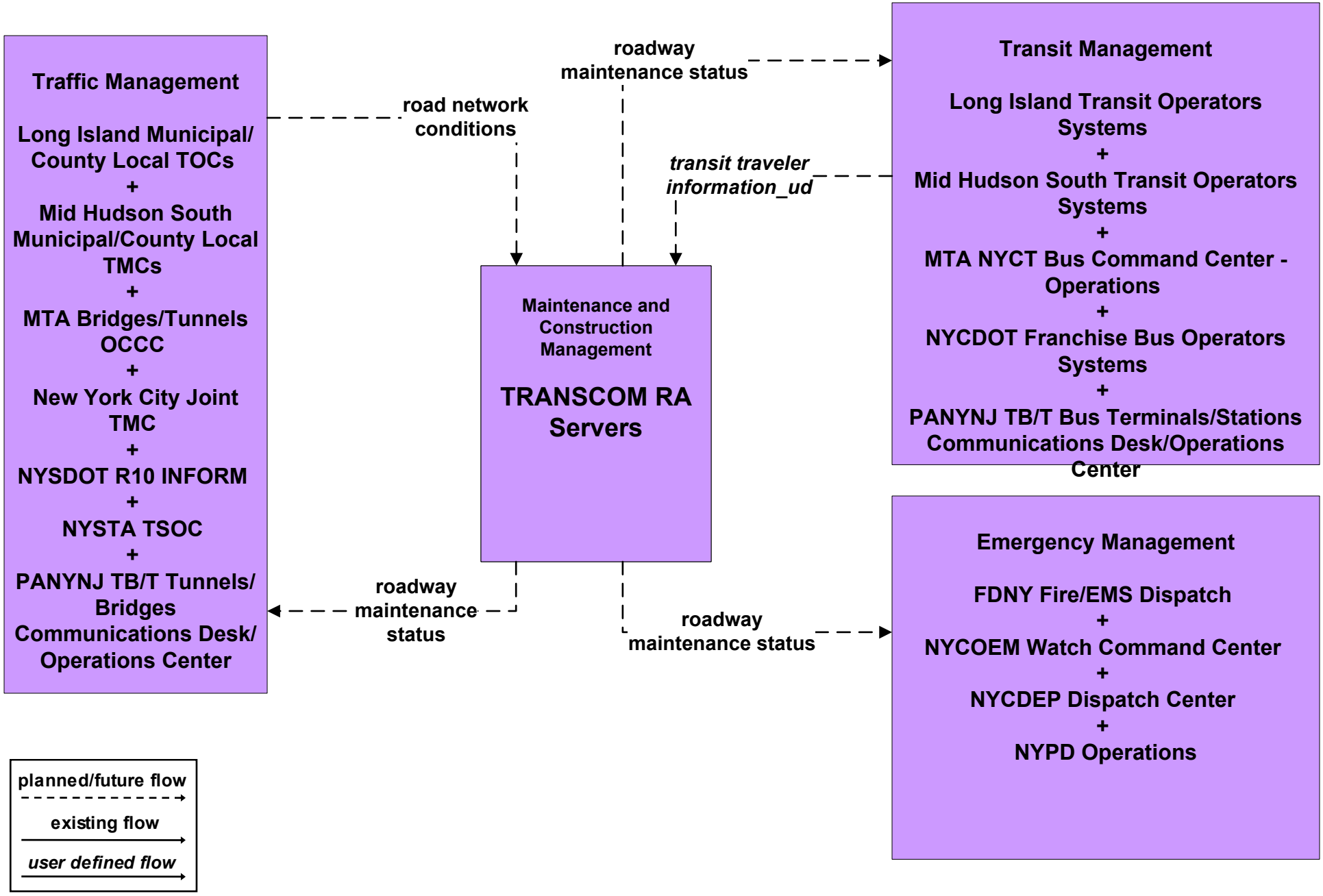
MC06 - Winter Maintenance
New York City Joint TMC (1 of 2)



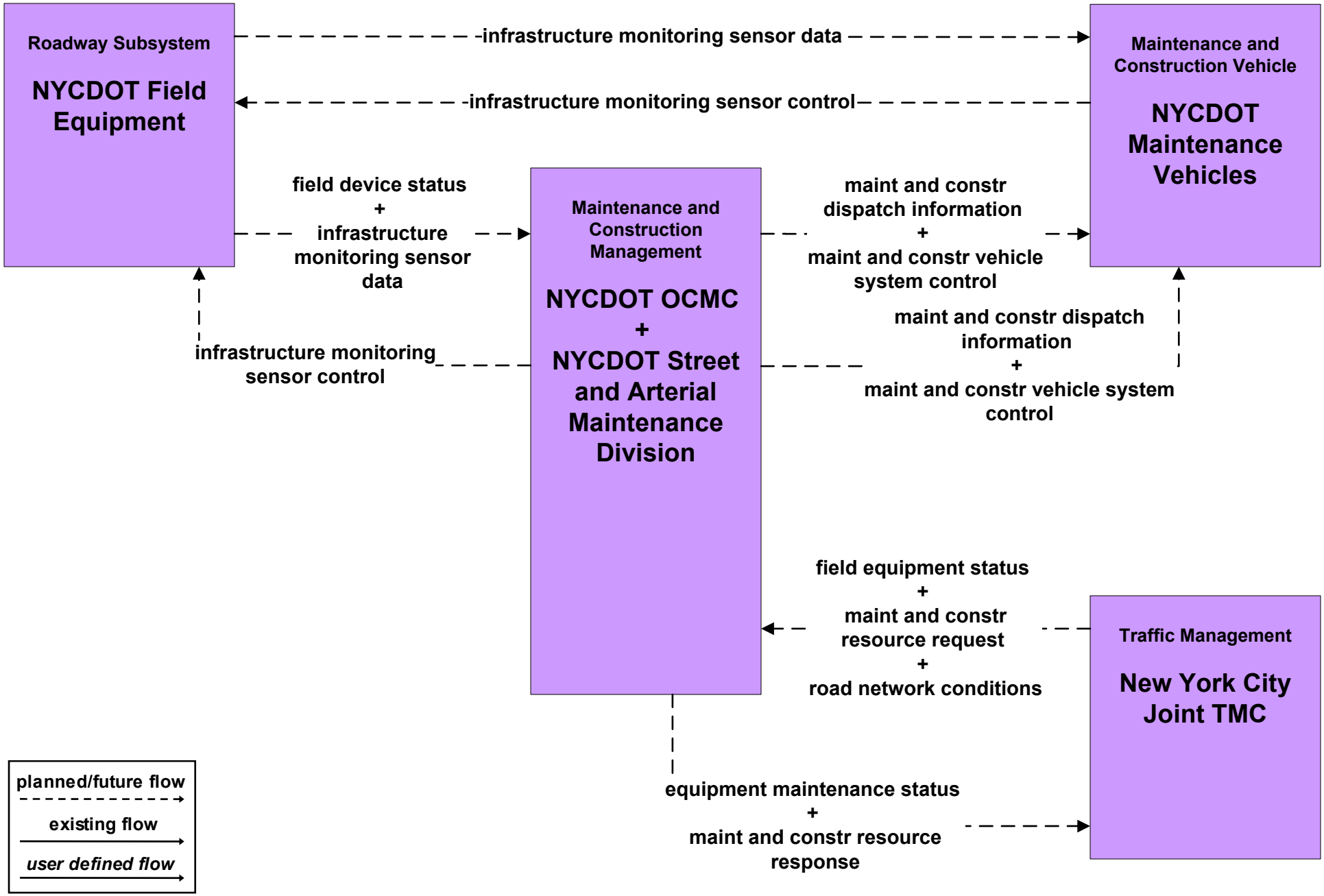
MC06 - Winter Maintenance
New York City Joint TMC (2 of 2)



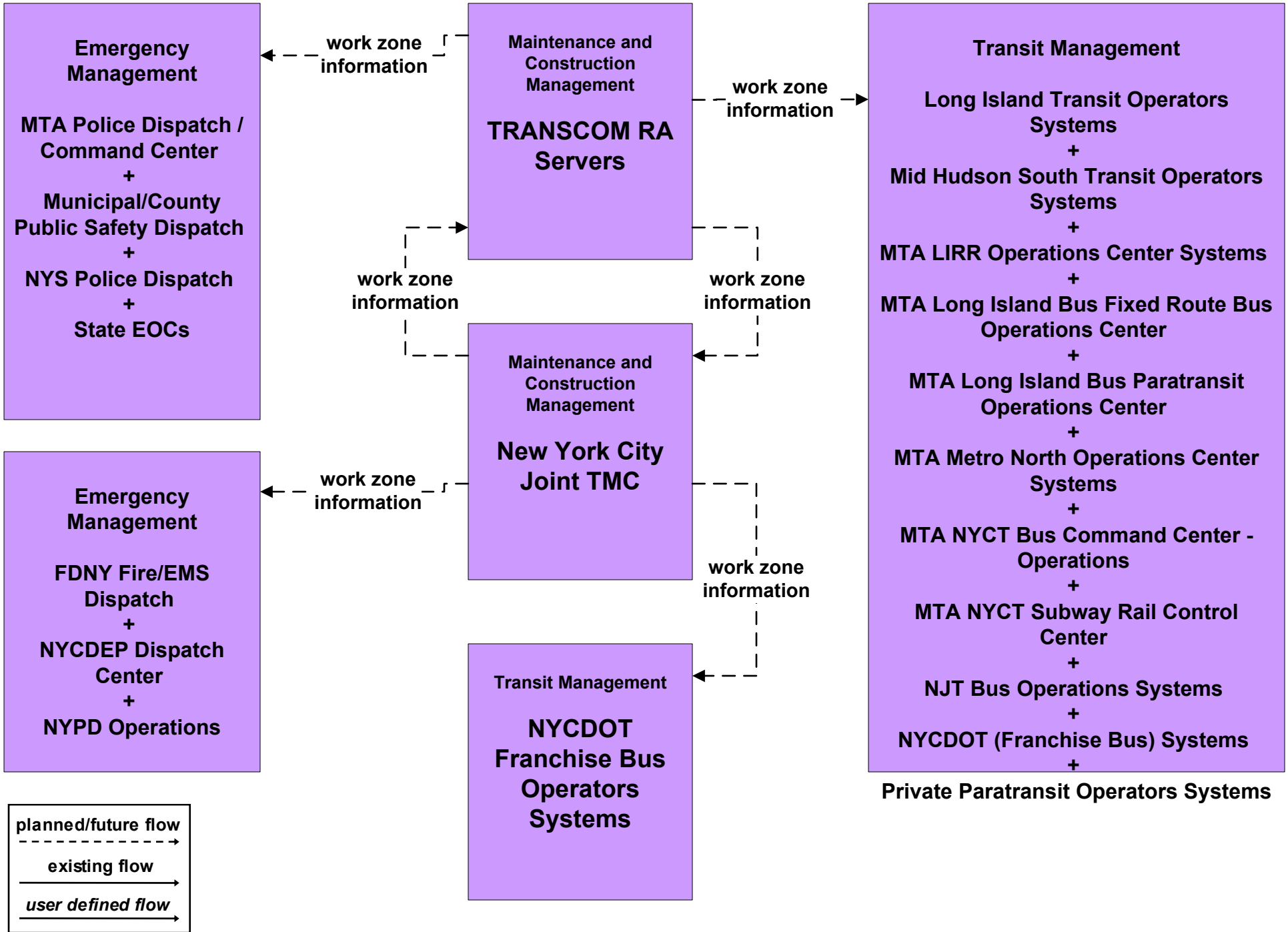
MC06 - Winter Maintenance
TRANSCOM



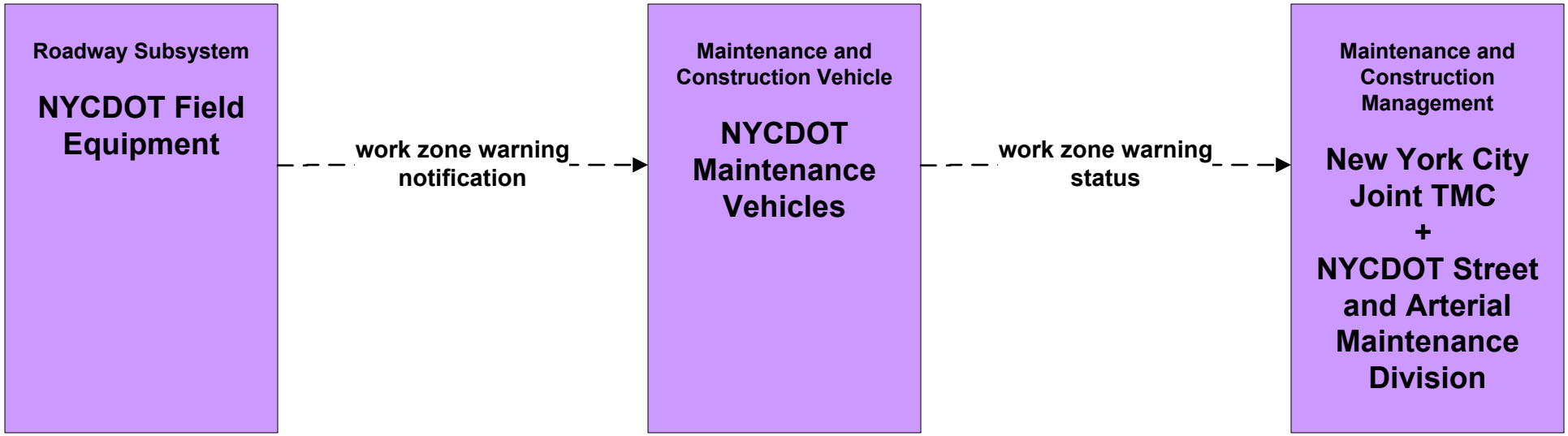
MC07 - Roadway Maintenance and Construction
New York City

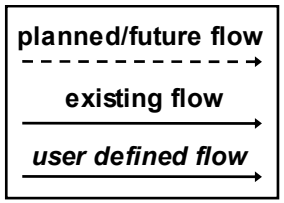


MC08 - Workzone Management (NYCDOT and TRANSCOM)

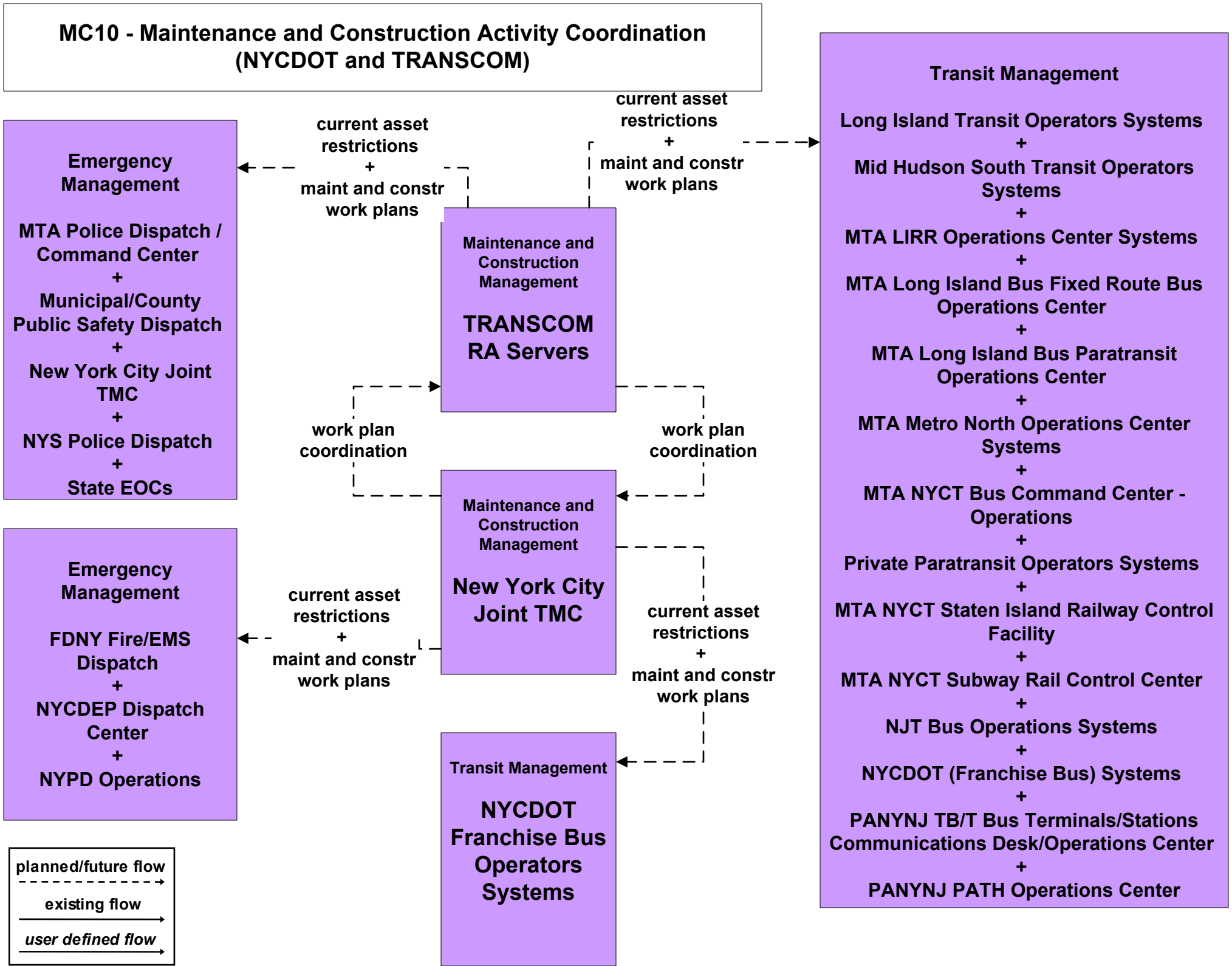


MC09 - Workzone Safety Monitoring
NYCDOT Street and Arterial Maintenance

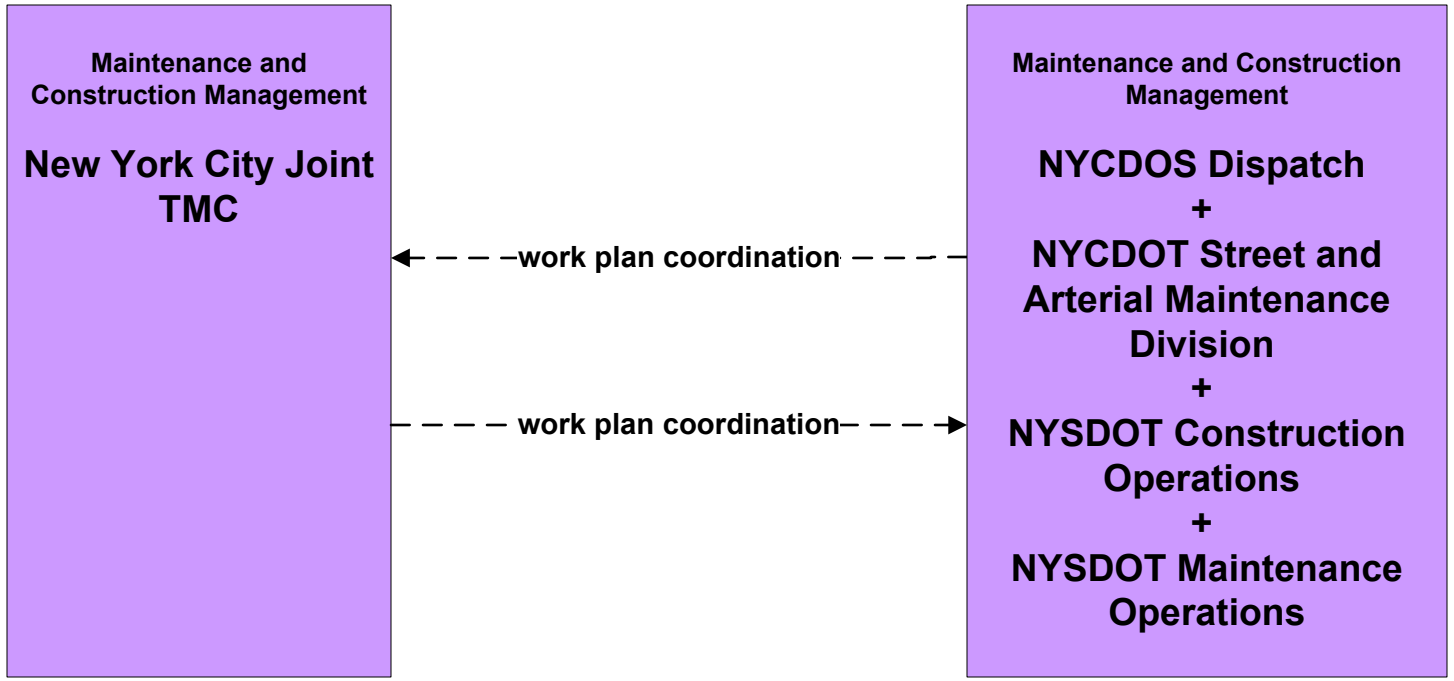




MC10 - Maintenance and Construction Activity Coordination (NYCDOT and TRANSCOM)



MC10 - Maintenance and Construction Activity Coordination
New York City



planned/future flow

existing flow

user defined flow