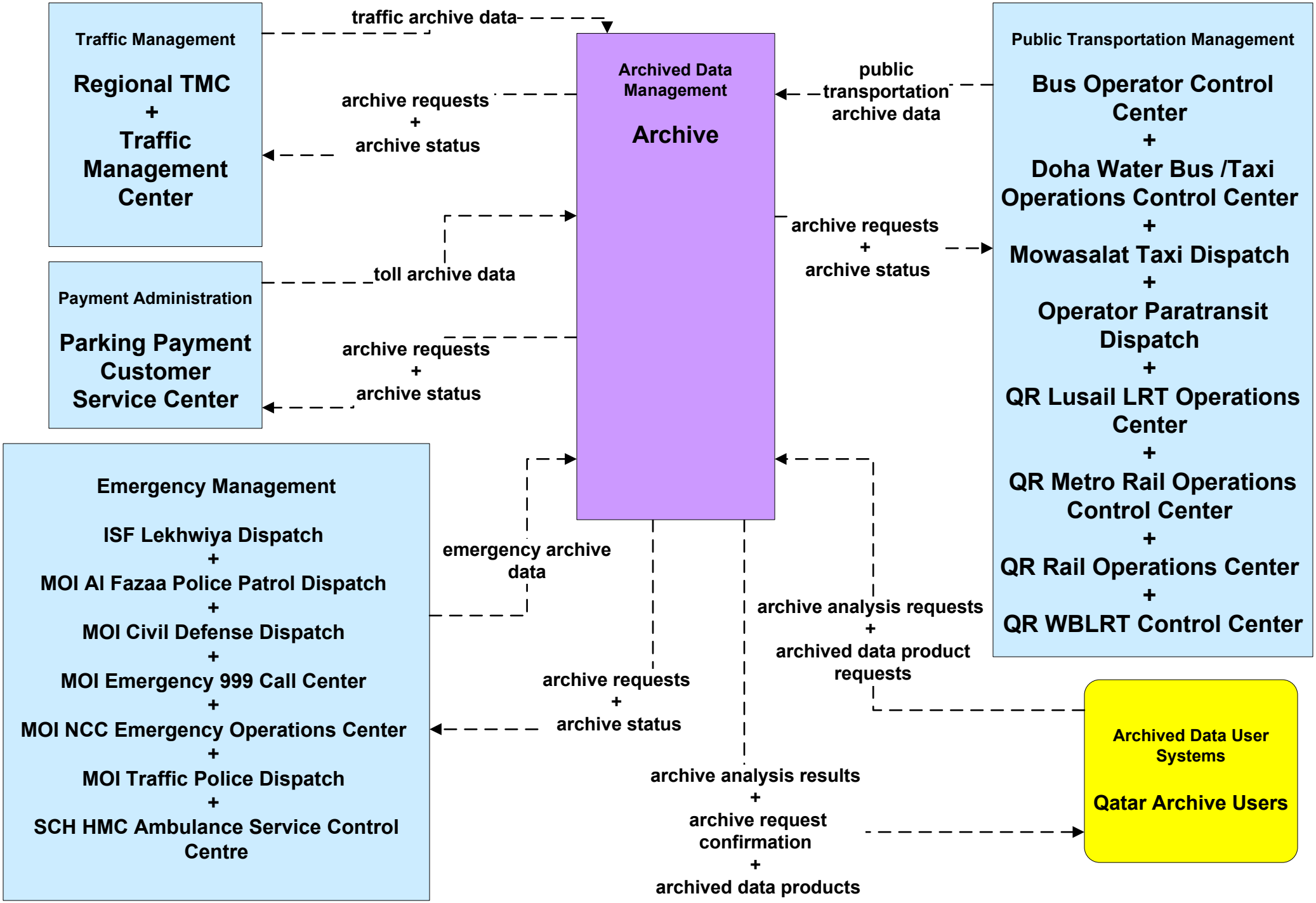
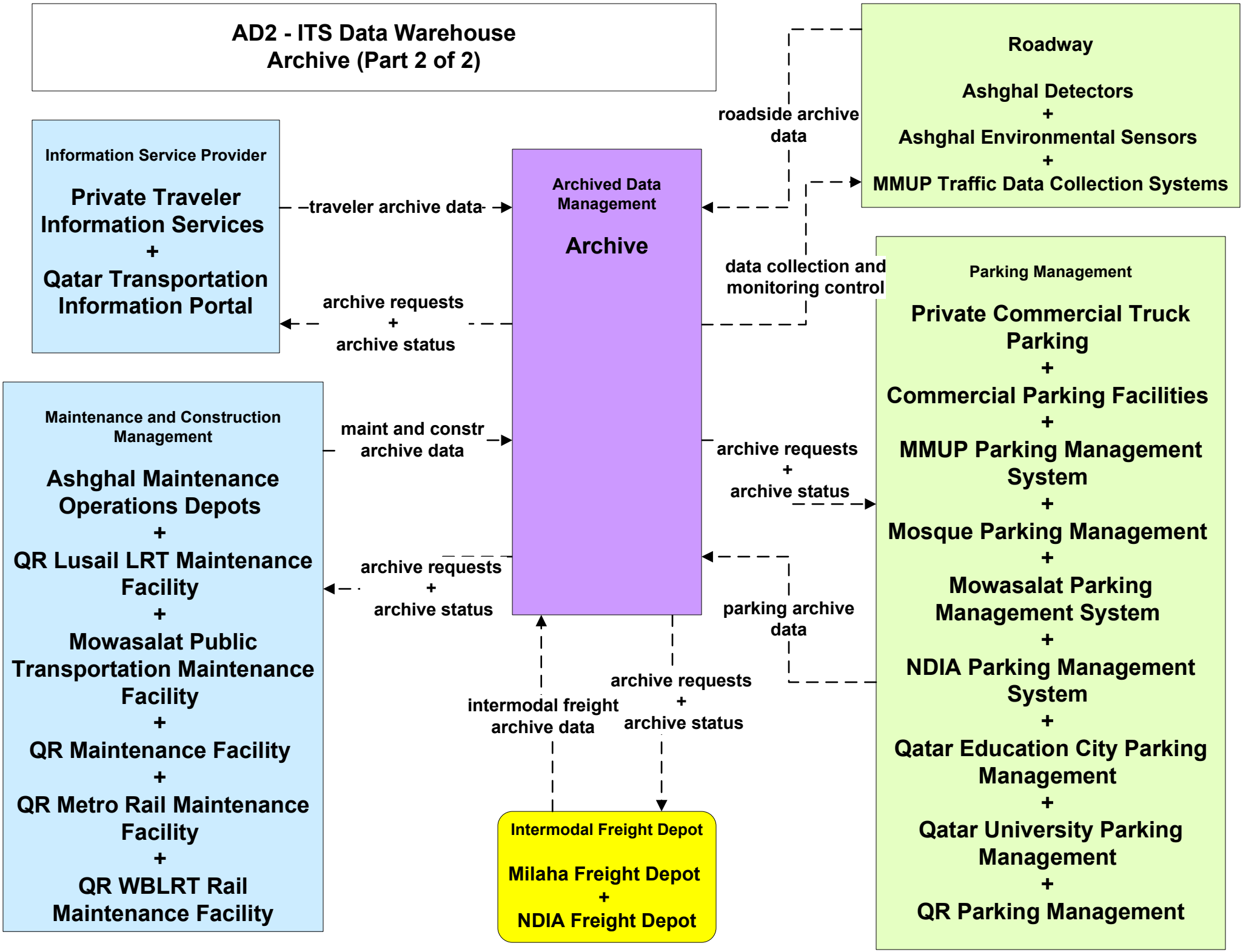
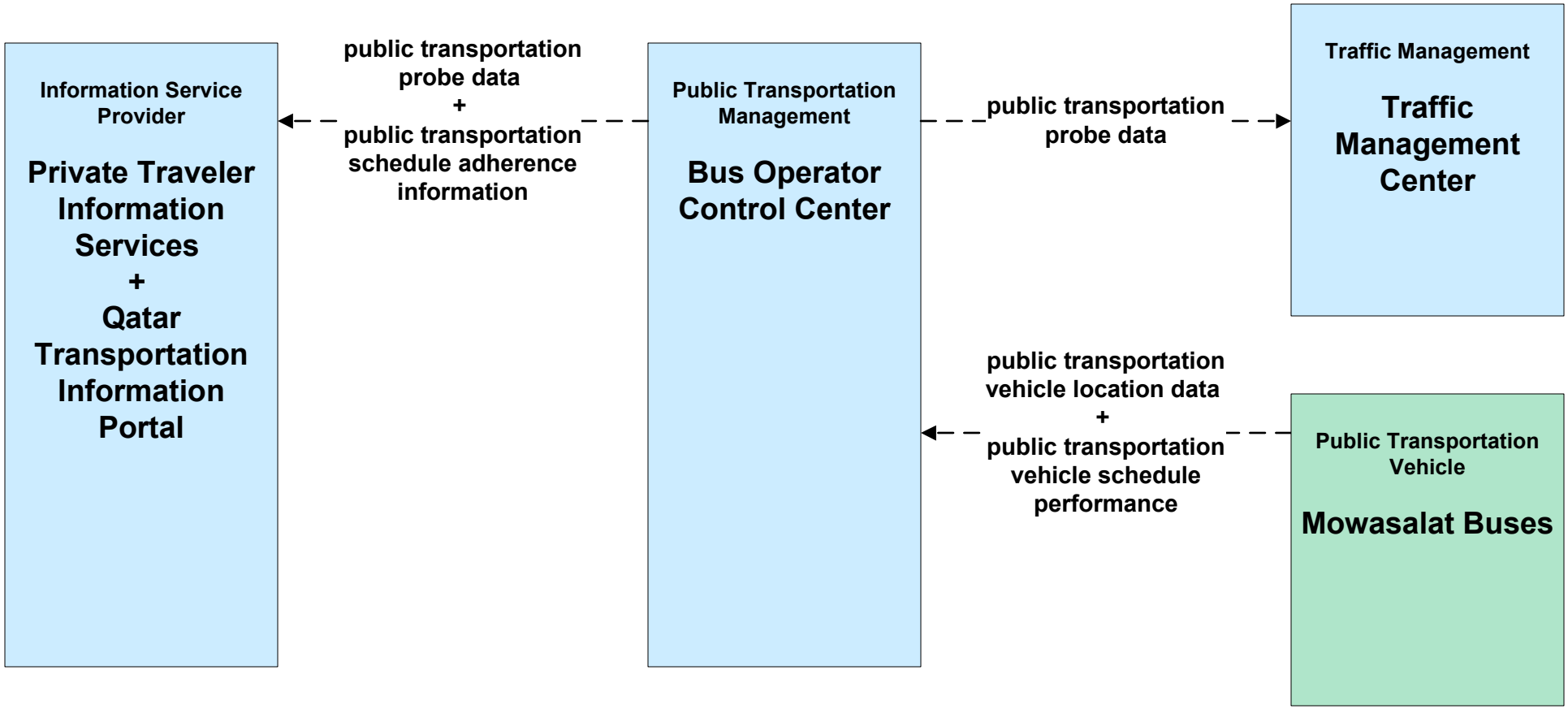
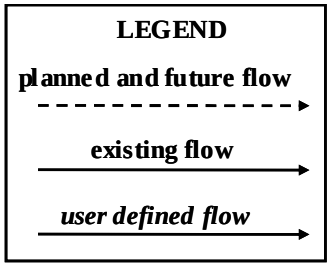
AD2 - ITS Data Warehouse
Archive (Part 1 of 2)



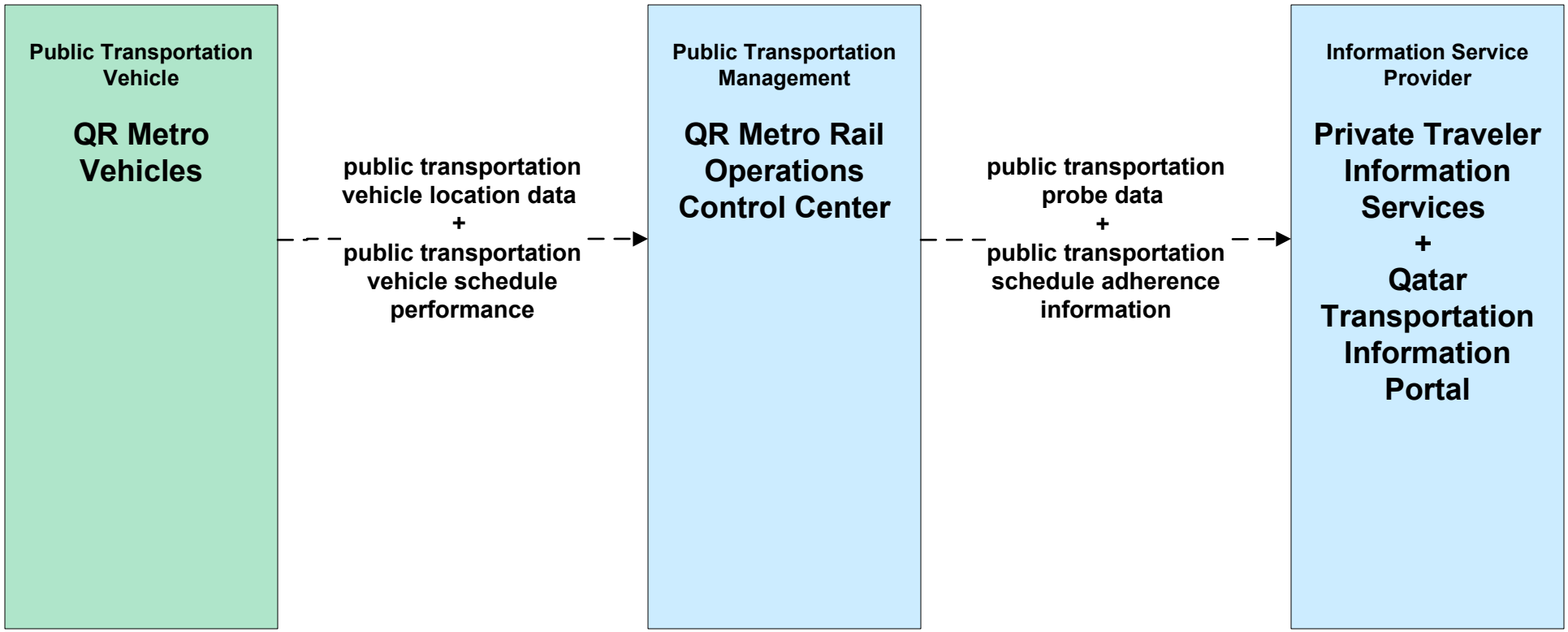

AD2 - ITS Data Warehouse
Archive (Part 2 of 2)
Roadway
Ashghal Detectors
+
Ashghal Environmental Sensors
+
MMUP Traffic Data Collection Systems
roadside archive data
Information Service Provider
Private Traveler Information Services
+
Qatar Transportation Information Portal
traveler archive data
Archived Data Management
Archive
data collection and monitoring control
archive requests
+
archive status
Parking Management
Private Commercial Truck Parking
+
Commercial Parking Facilities
+
MMUP Parking Management System
+
Mosque Parking Management
+
Mowasalat Parking Management System
+
NDIA Parking Management System
+
Qatar Education City Parking Management
+
Qatar University Parking Management
+
QR Parking Management
Maintenance and Construction Management
Ashghal Maintenance Operations Depots
+
QR Lusail LRT Maintenance Facility
+
Mowasalat Public Transportation Maintenance Facility
+
QR Maintenance Facility
+
QR Metro Rail Maintenance Facility
+
QR WBLRT Rail Maintenance Facility
maint and constr archive data
archive requests
+
archive status
archive requests
+
archive status
parking archive data
intermodal freight archive data
archive requests
+
archive status
Intermodal Freight Depot
Milaha Freight Depot
+
NDIA Freight Depot

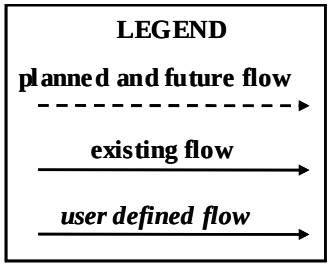
APTS01 - Public Transportation Vehicle Tracking
Mowasalat Buses



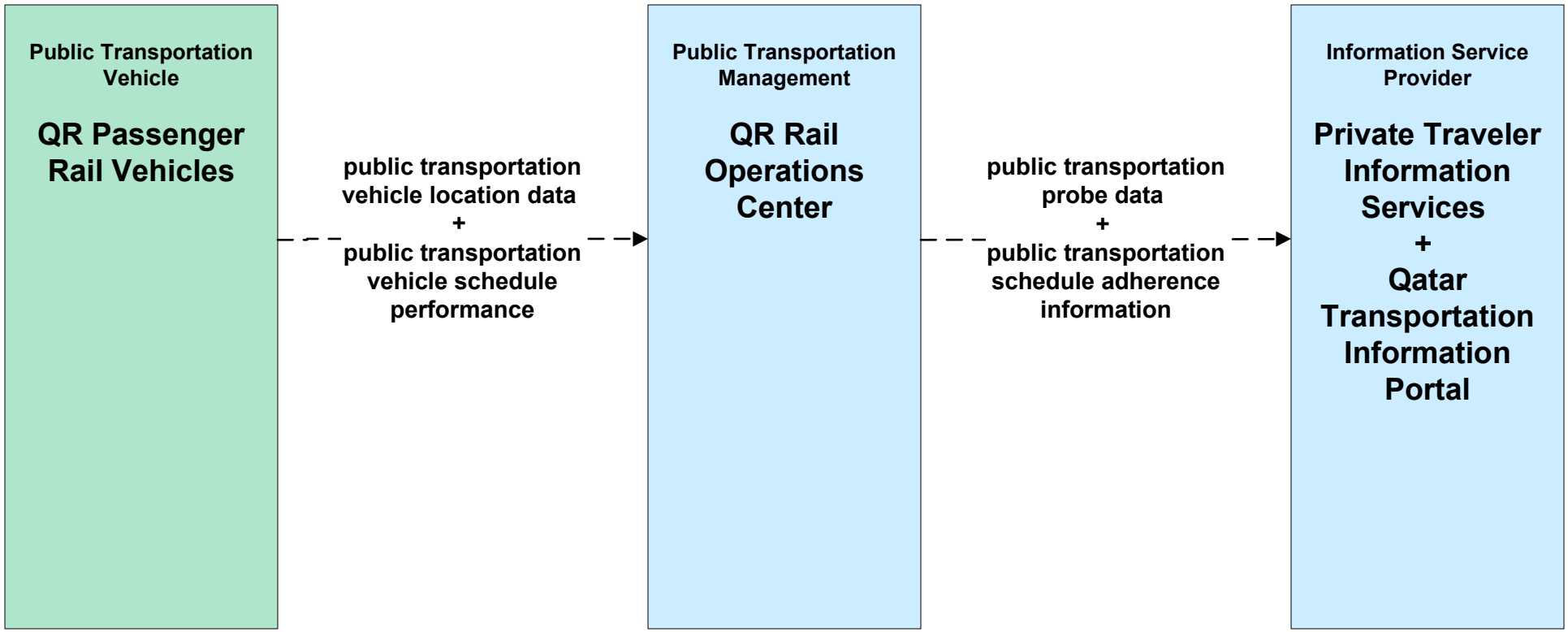


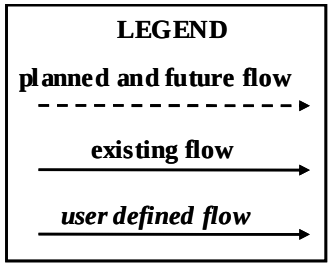
APTS01 - Public Transportation Vehicle Tracking
Doha Metro



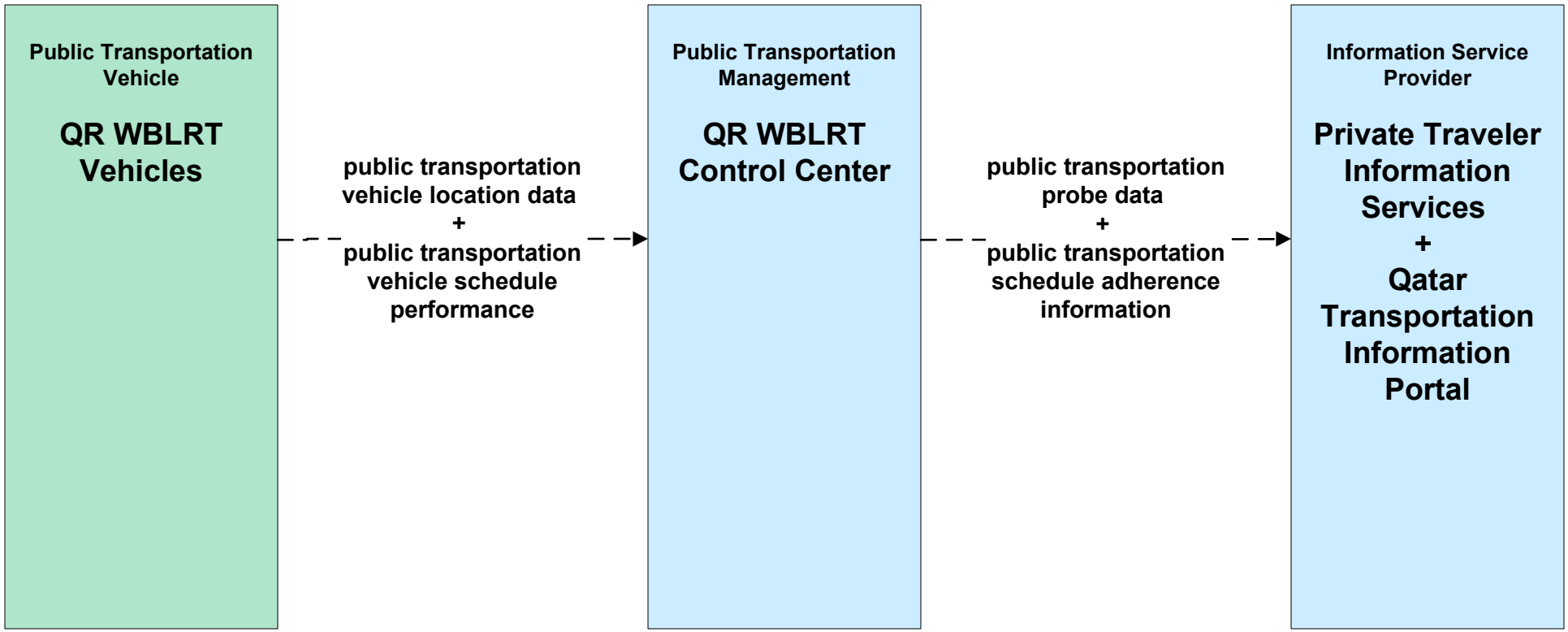


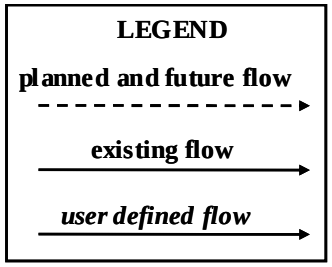
APTS01 - Public Transportation Vehicle Tracking
Qatar Railways Passenger Rail



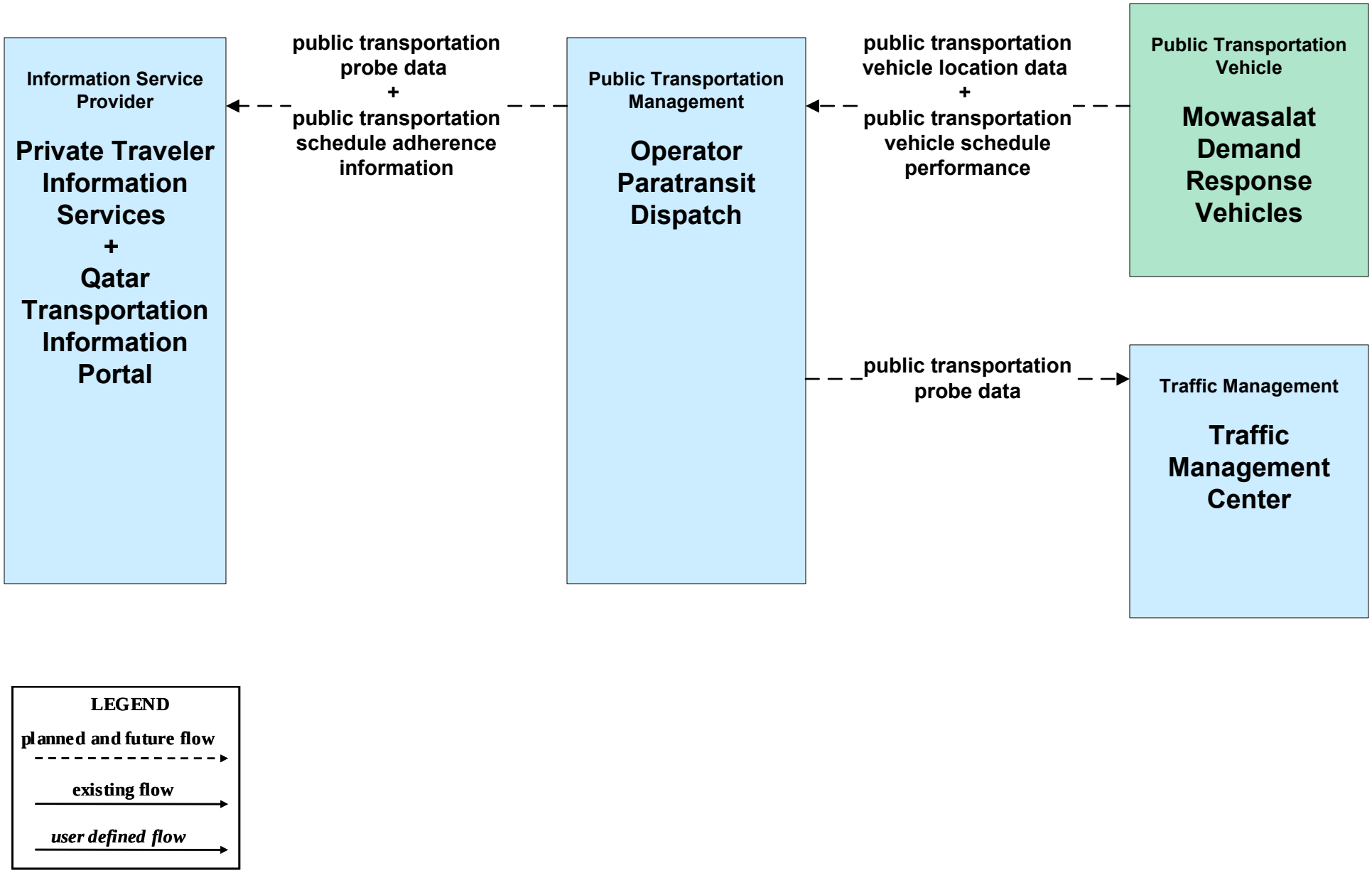


APTS01 - Public Transportation Vehicle Tracking
West Bay LRT

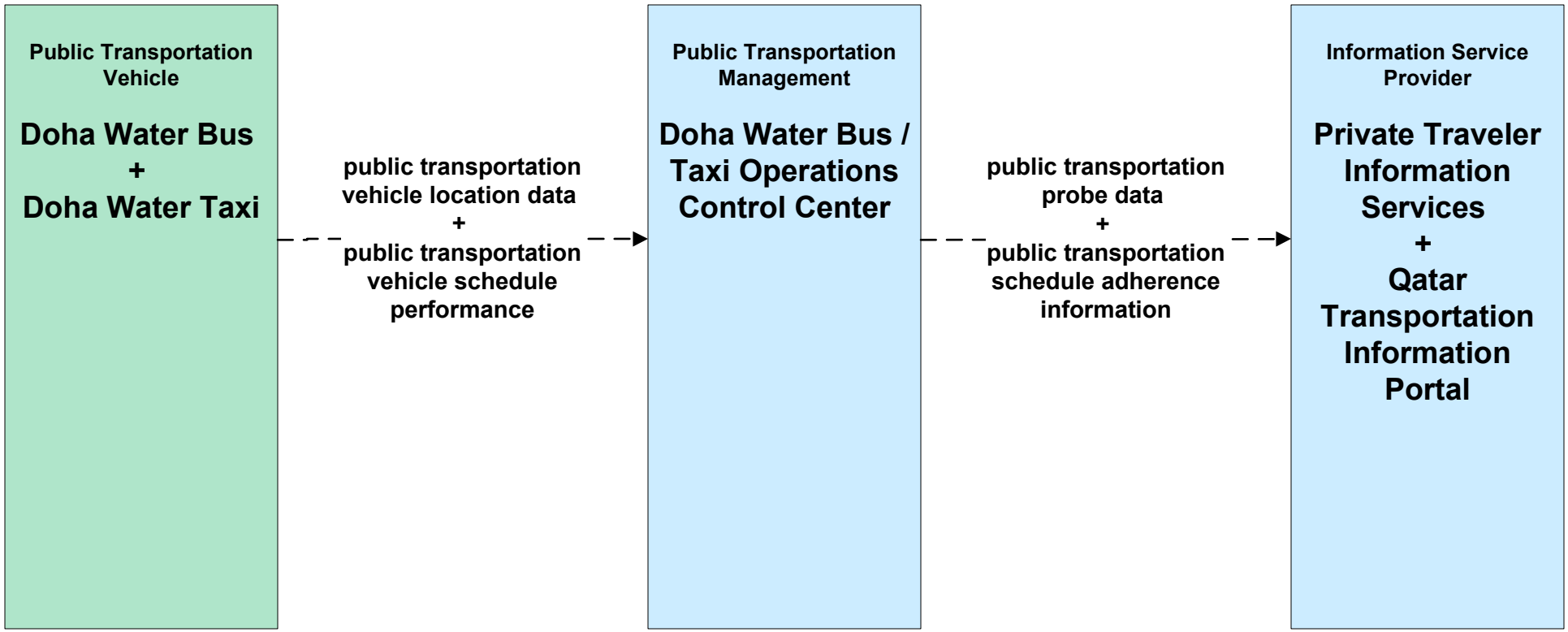




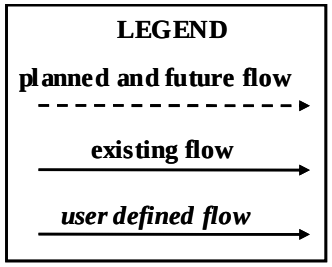
APTS01 - Public Transportation Vehicle Tracking
Mowasalat Paratransit



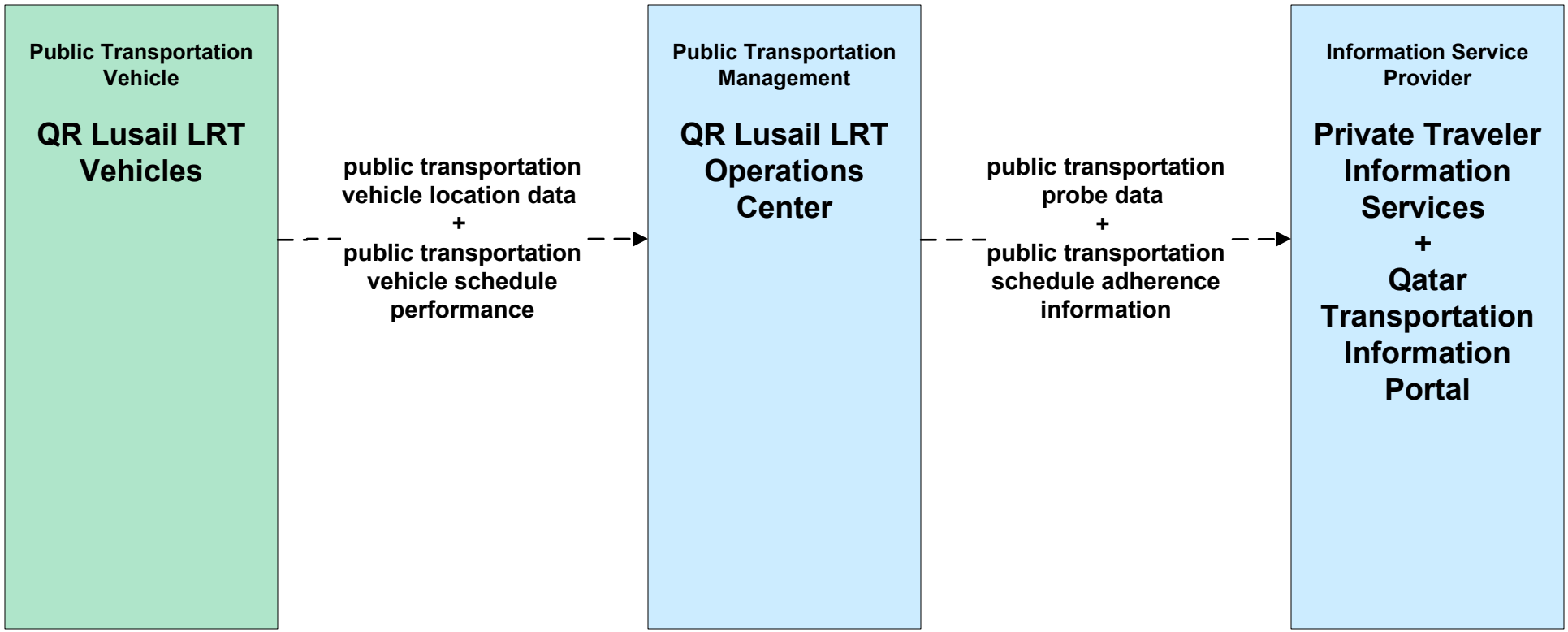
APTS01 - Public Transportation Vehicle Tracking
Doha Bay Water Bus and Taxi

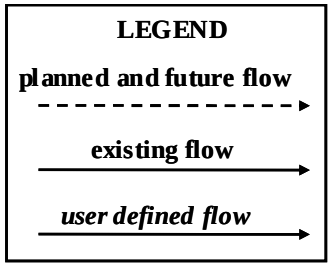


If no passengers are at a station (have tapped in) and if no passengers onboard have called for a stop, and if the vehicle is behind schedule, a stop should be able to be skipped.

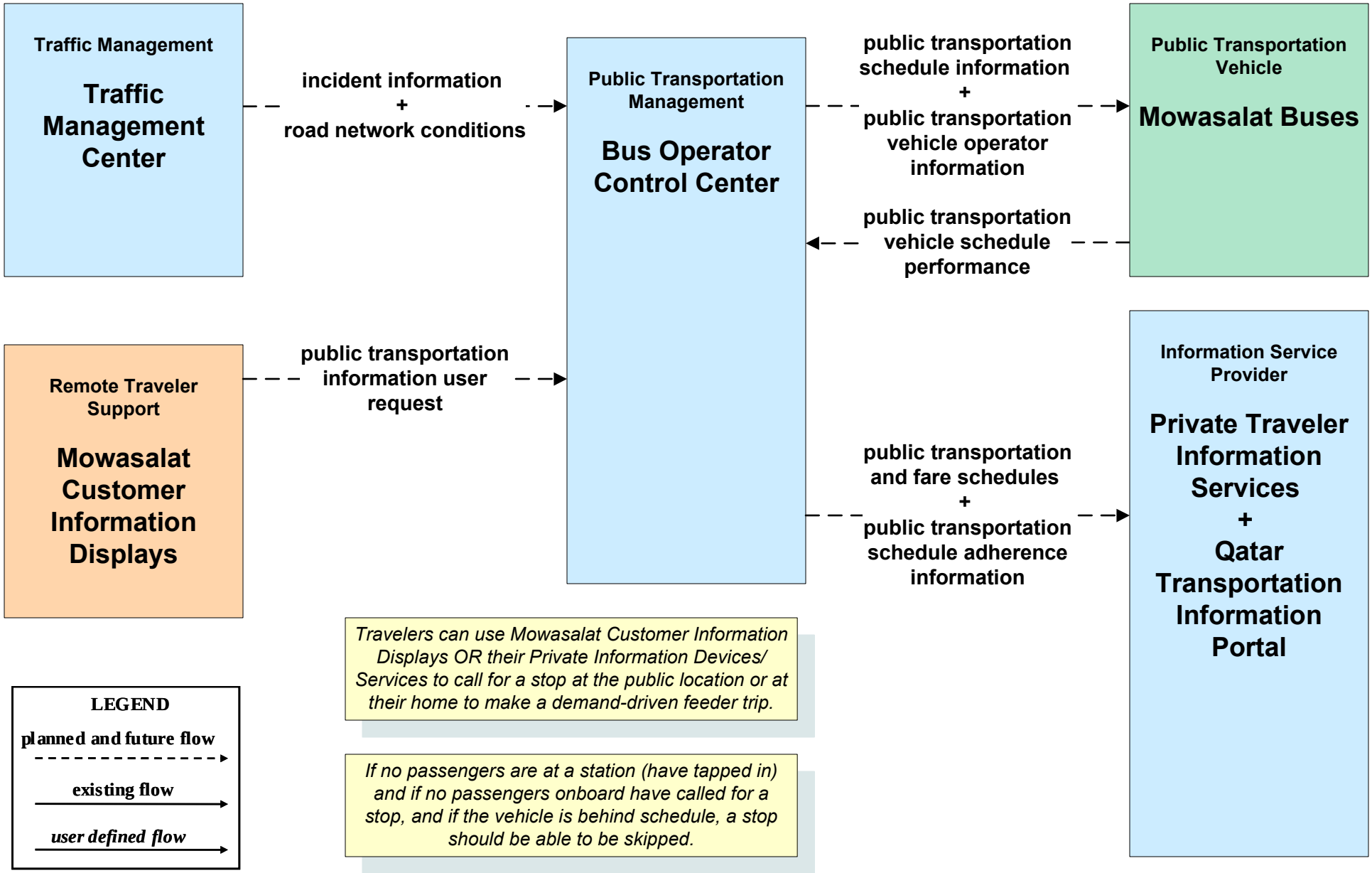


APTS01 - Public Transportation Vehicle Tracking
Lusail LRT

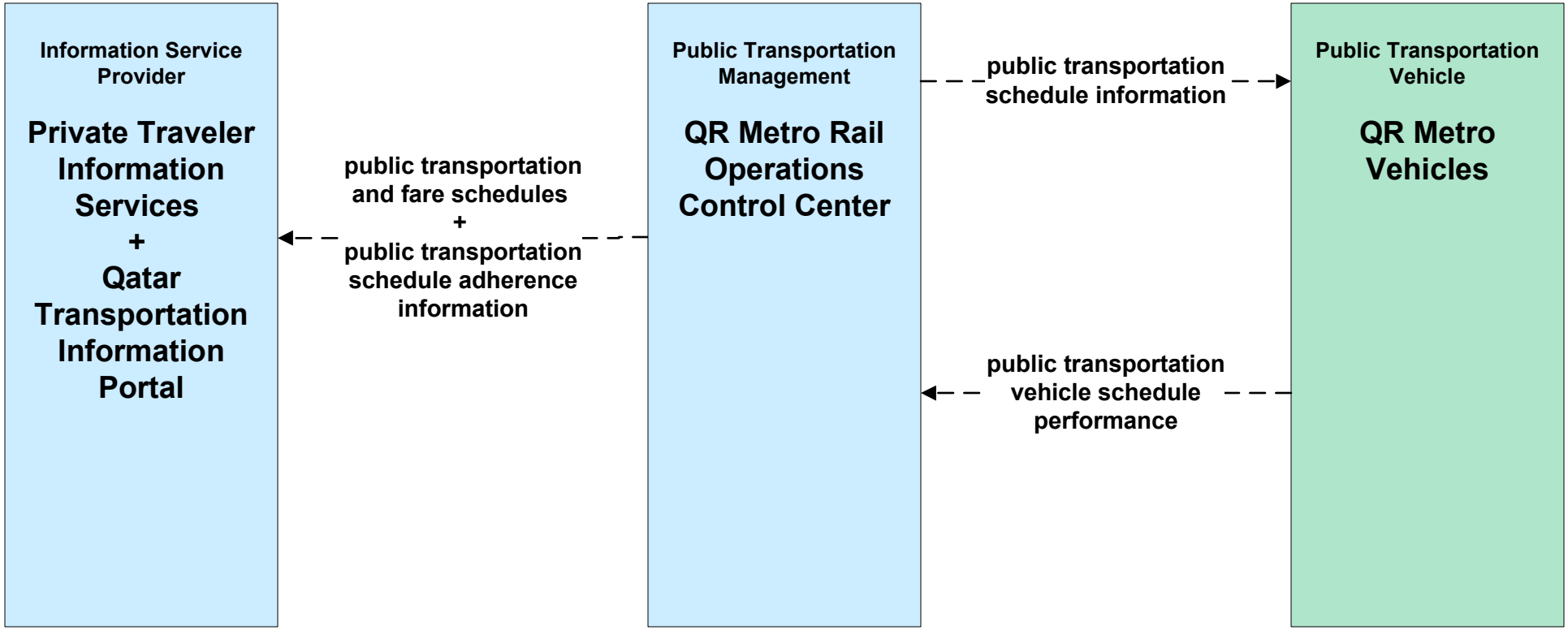




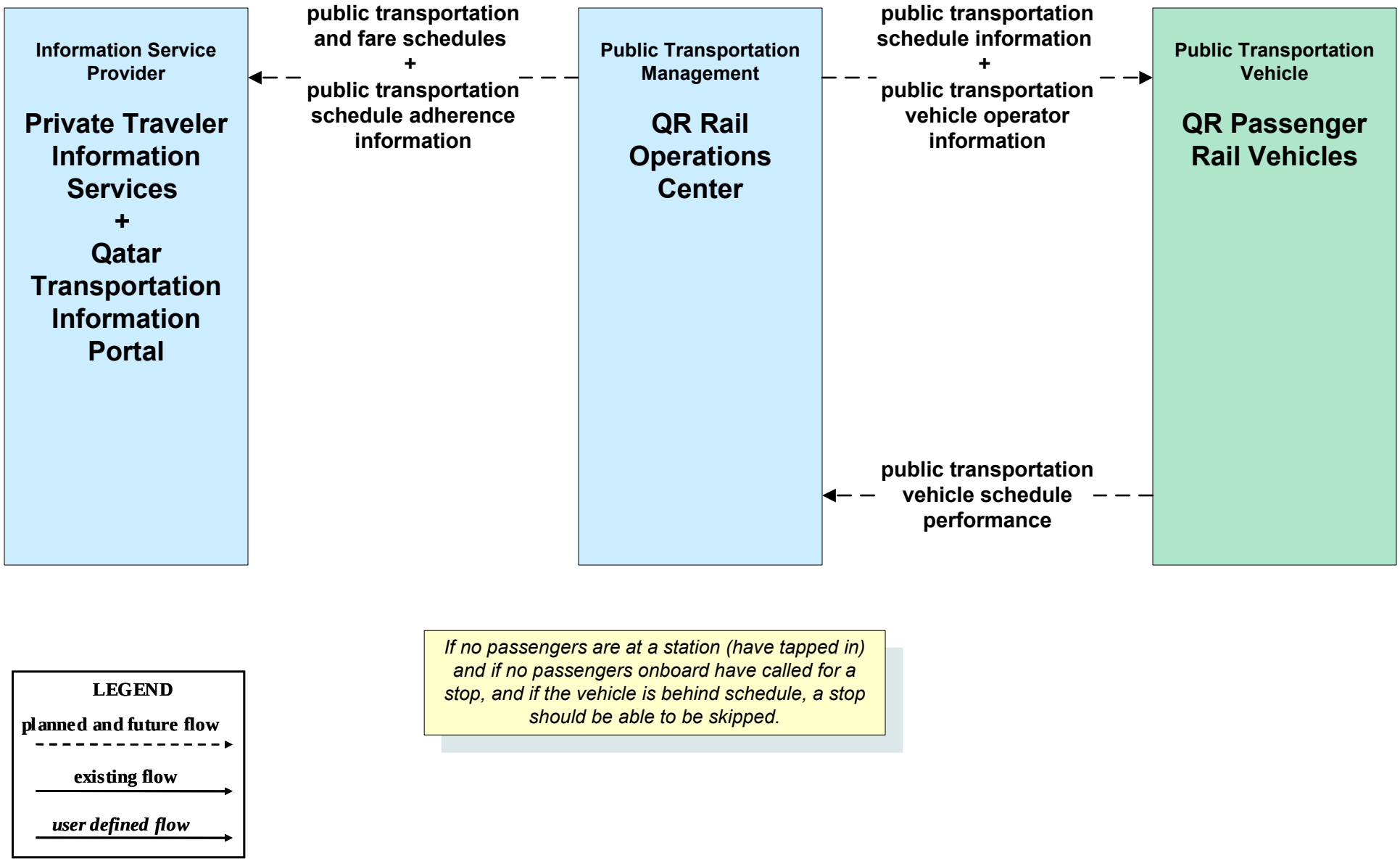
APTS02 - Public Transportation Fixed-Route Operations
Mowasalat Bus



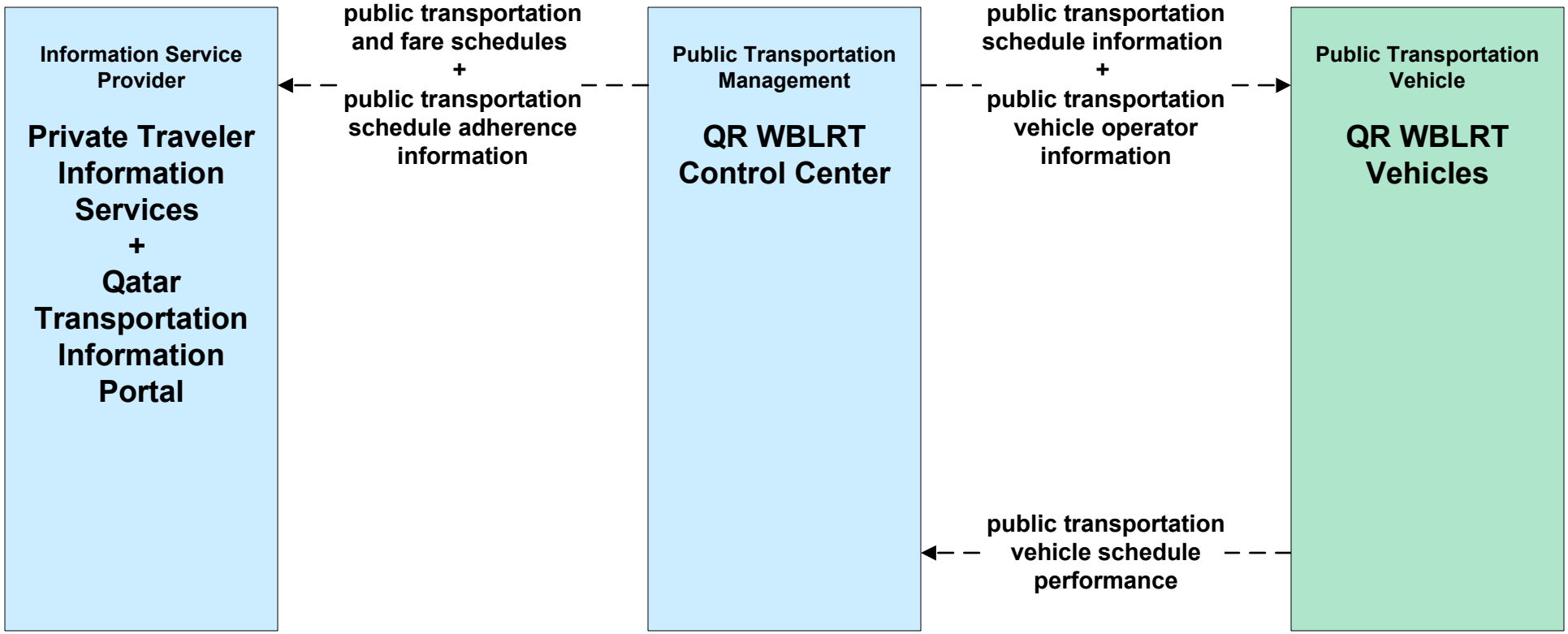
APTS02 - Public Transportation Fixed-Route Operations
QR Metro Rail Operations Control Center



APTS02 - Public Transportation Fixed-Route Operations
Qatar Passenger Rail



APTS02 - Public Transportation Fixed-Route Operations
WBLRT



LEGEND

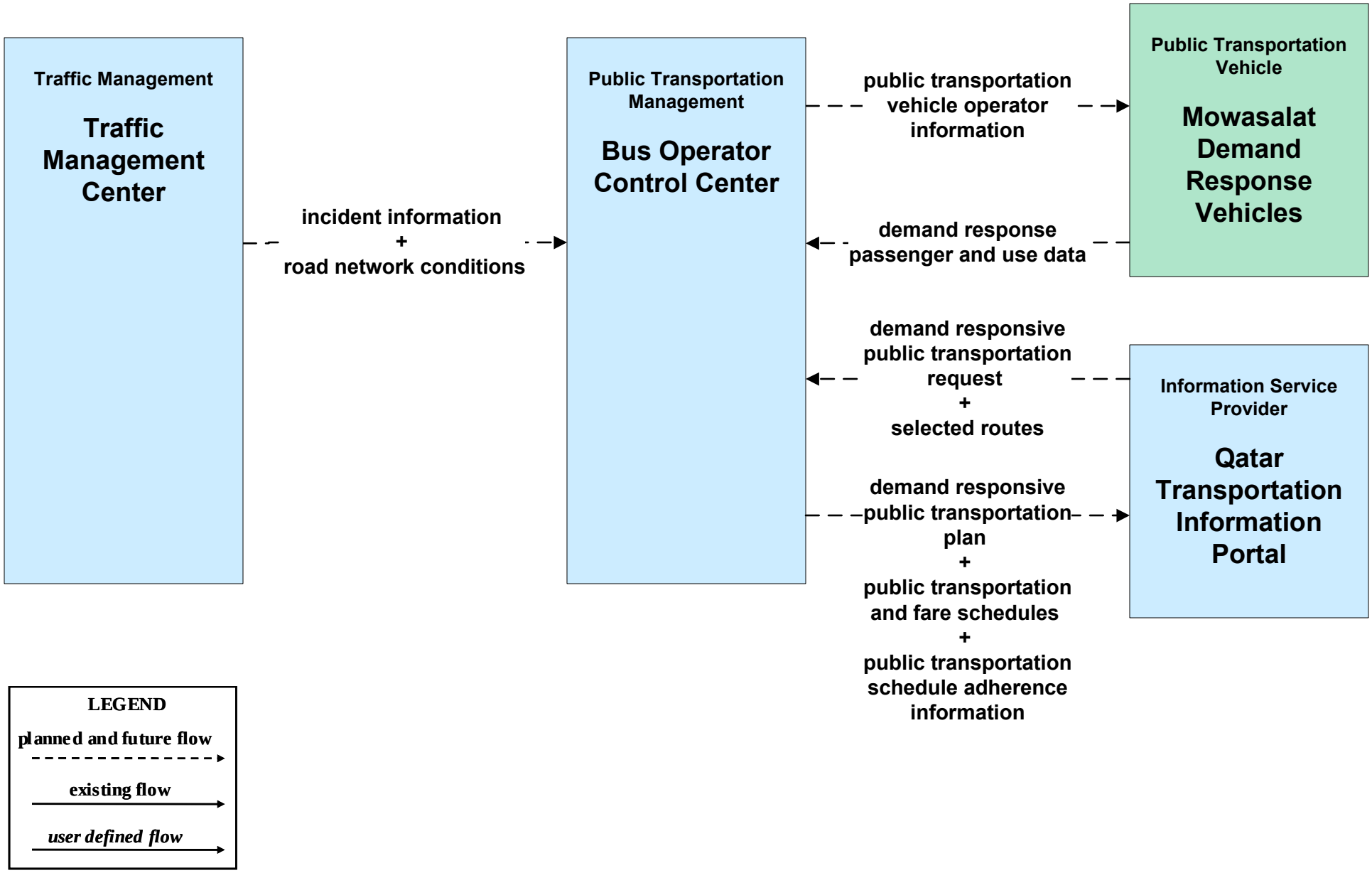
planned and future flow

existing flow

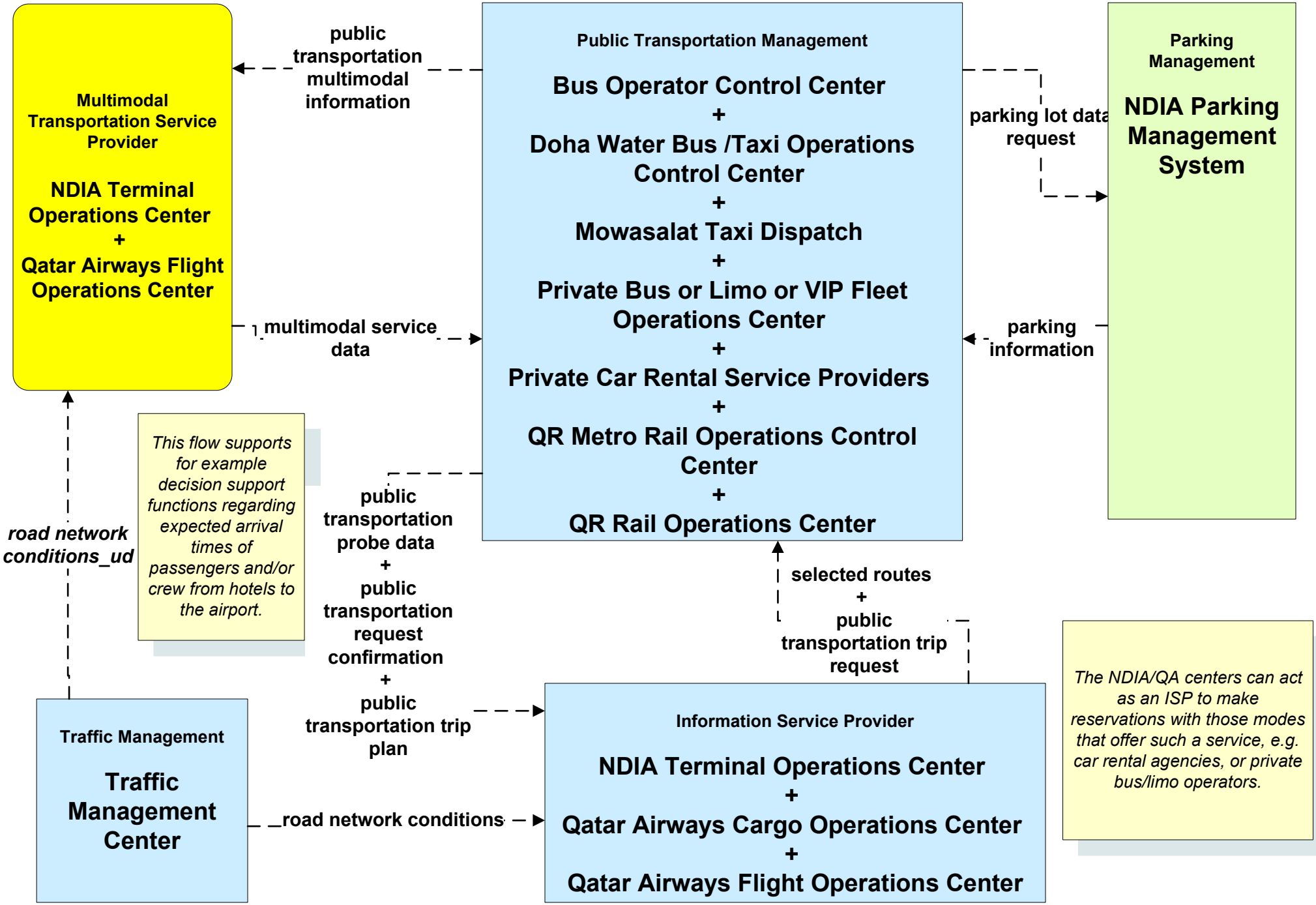
user defined flow

If no passengers are at a station (have tapped in) and if no passengers onboard have called for a stop, and if the vehicle is behind schedule, a stop should be able to be skipped.

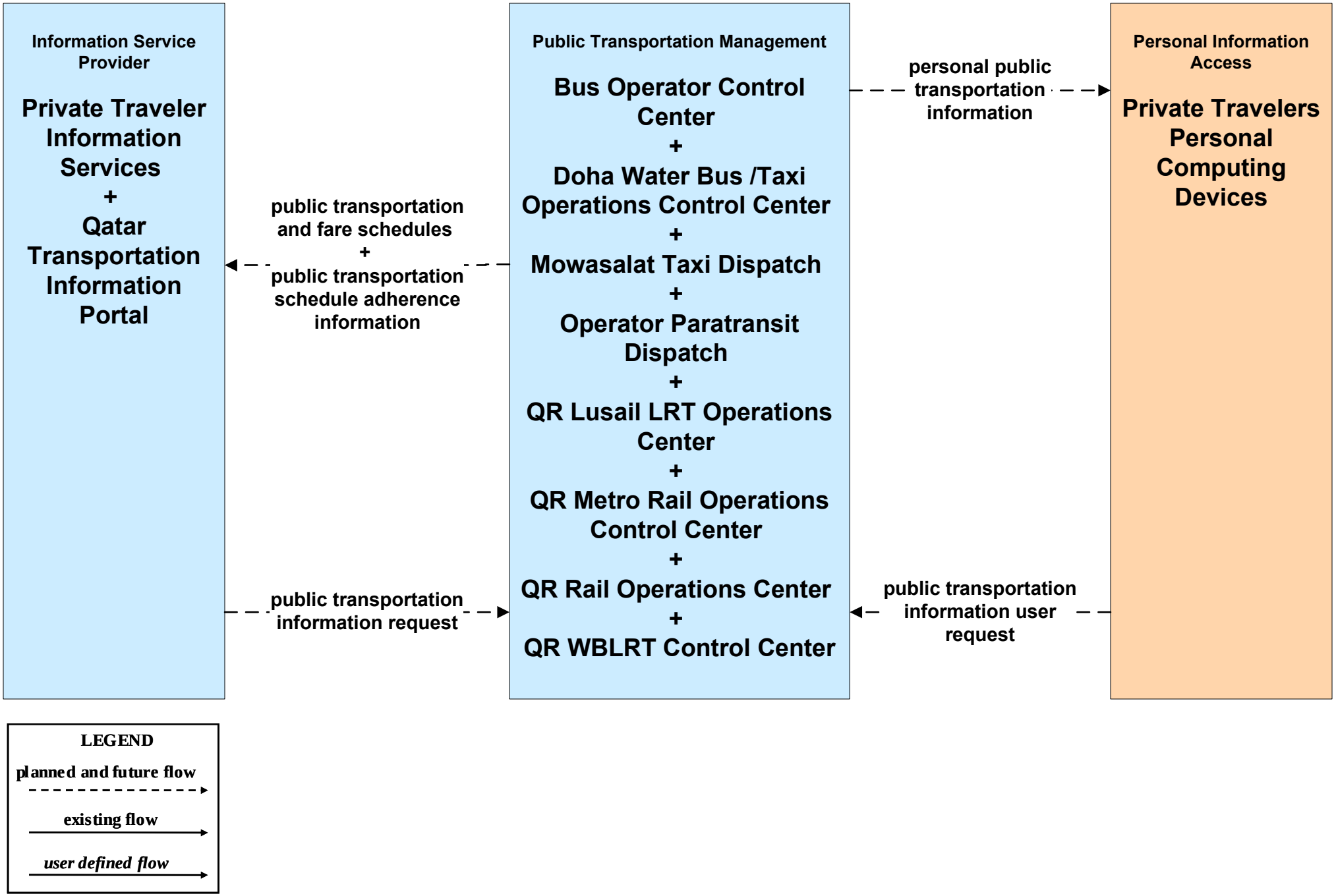
APTS03 - Demand Response Public Transportation Operations
Mowasalat Demand Response



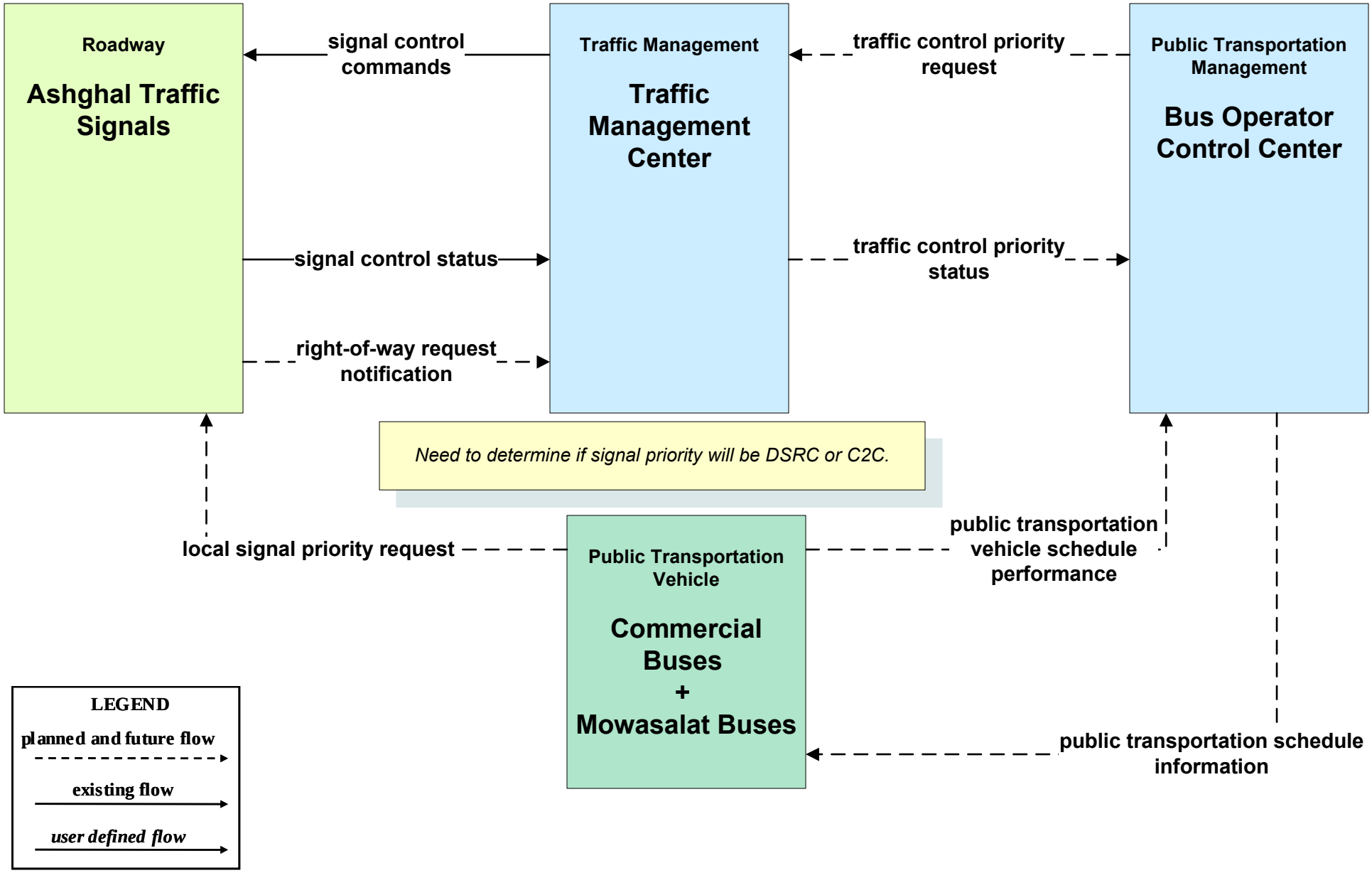
APTS07 - Multimodal Coordination
NDIA



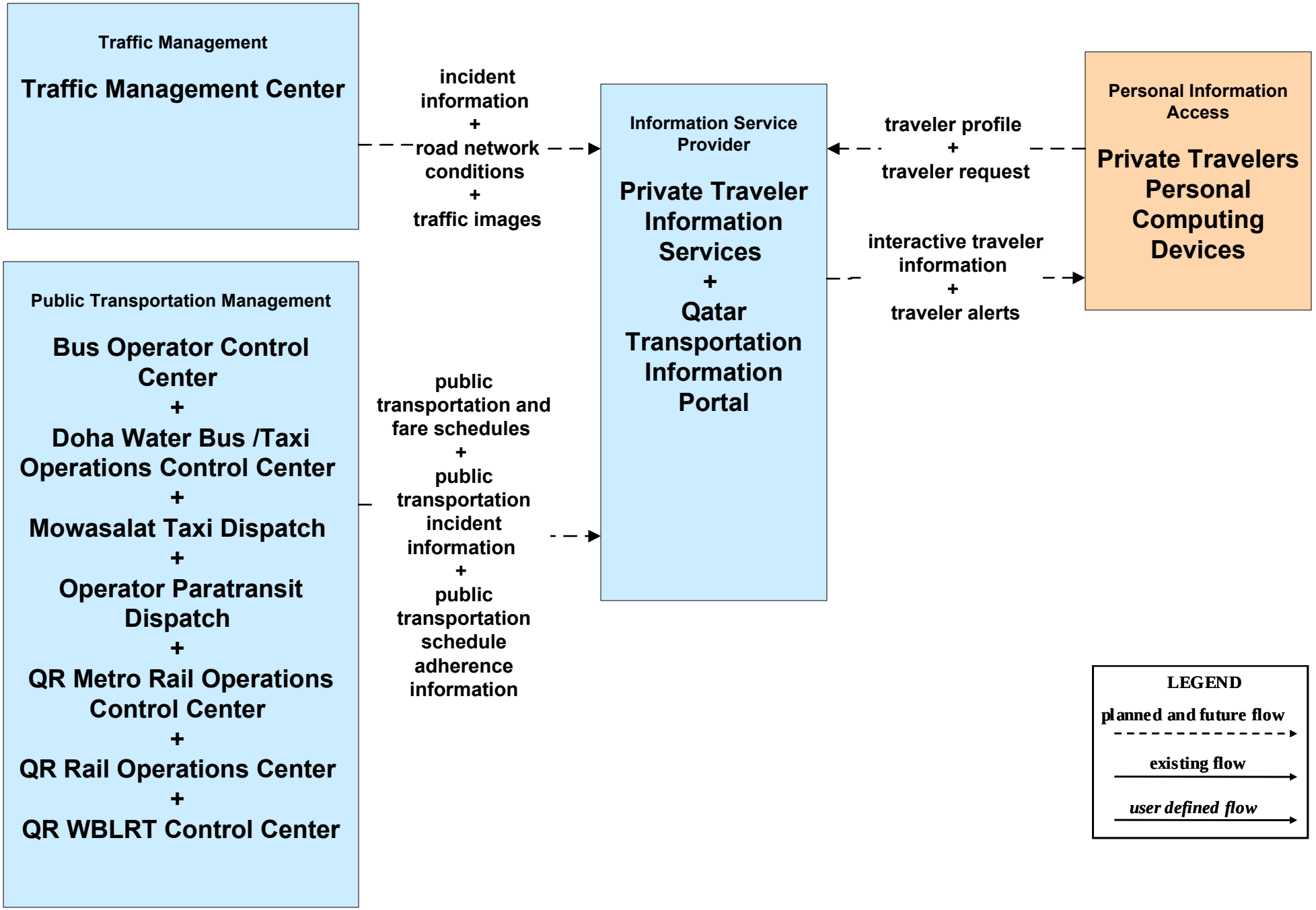
APTS08 - Public Transportation Traveler Information
Private Traveler Information



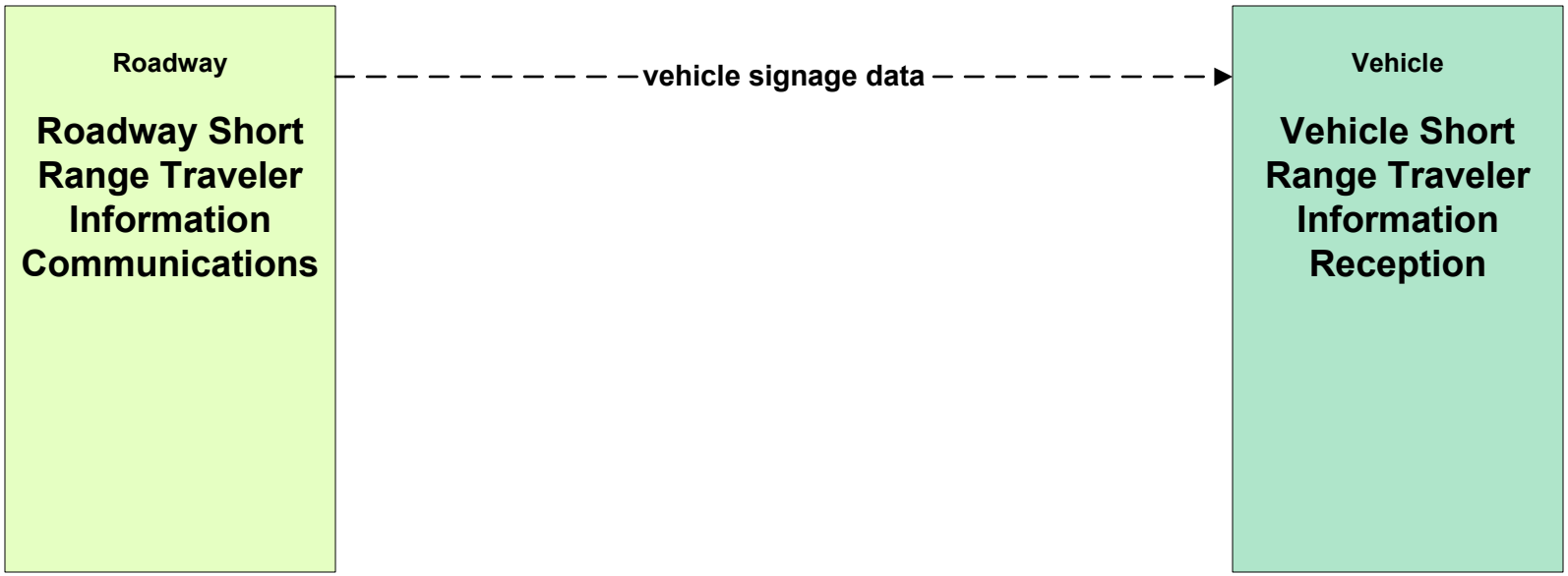
APTS09 - Public Transportation Signal Priority
Mowasalat Buses

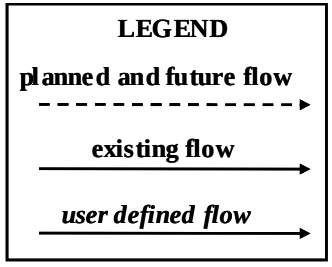


ATIS02 - Interactive Traveler Information

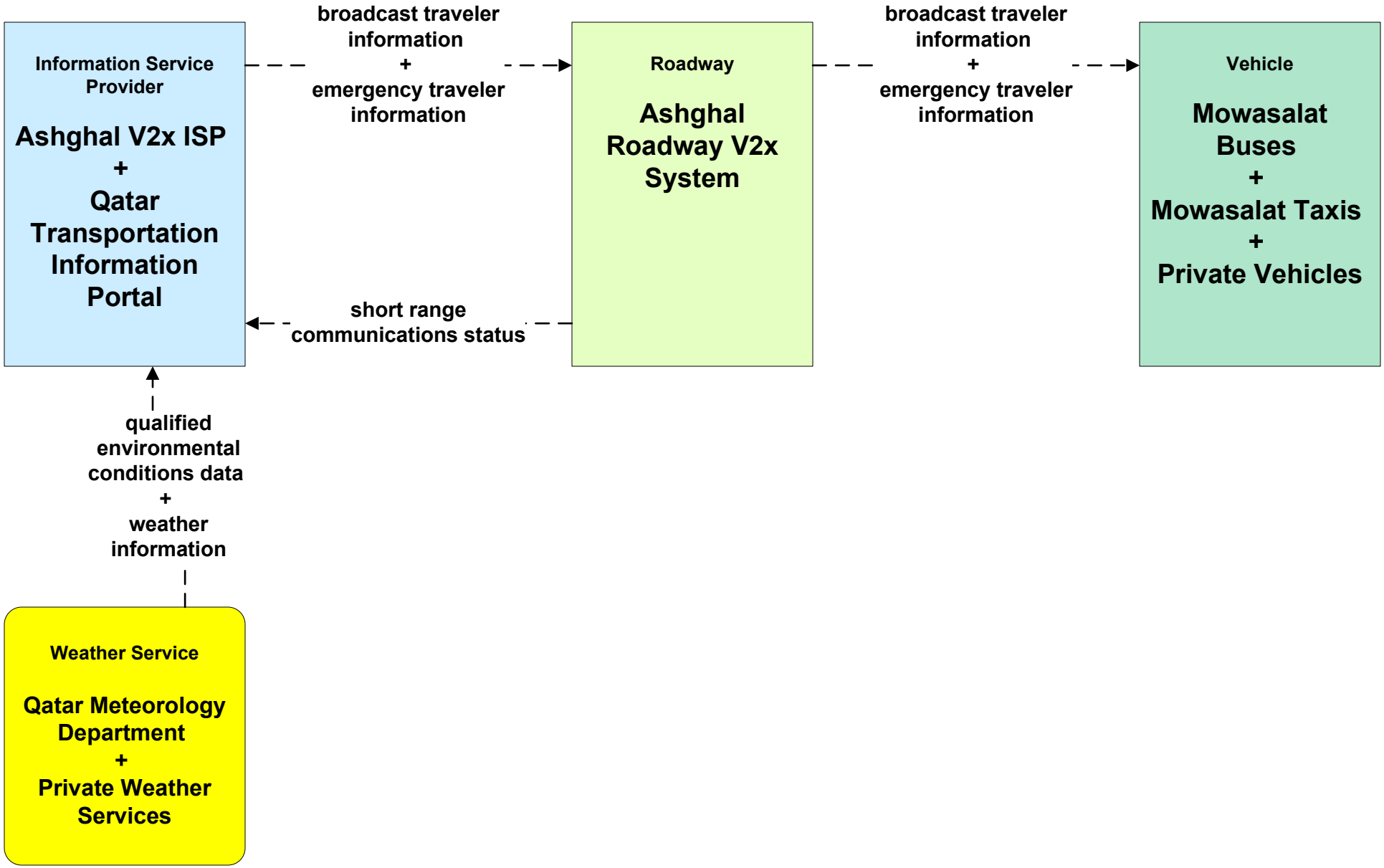


ATIS09 – In Vehicle Signing

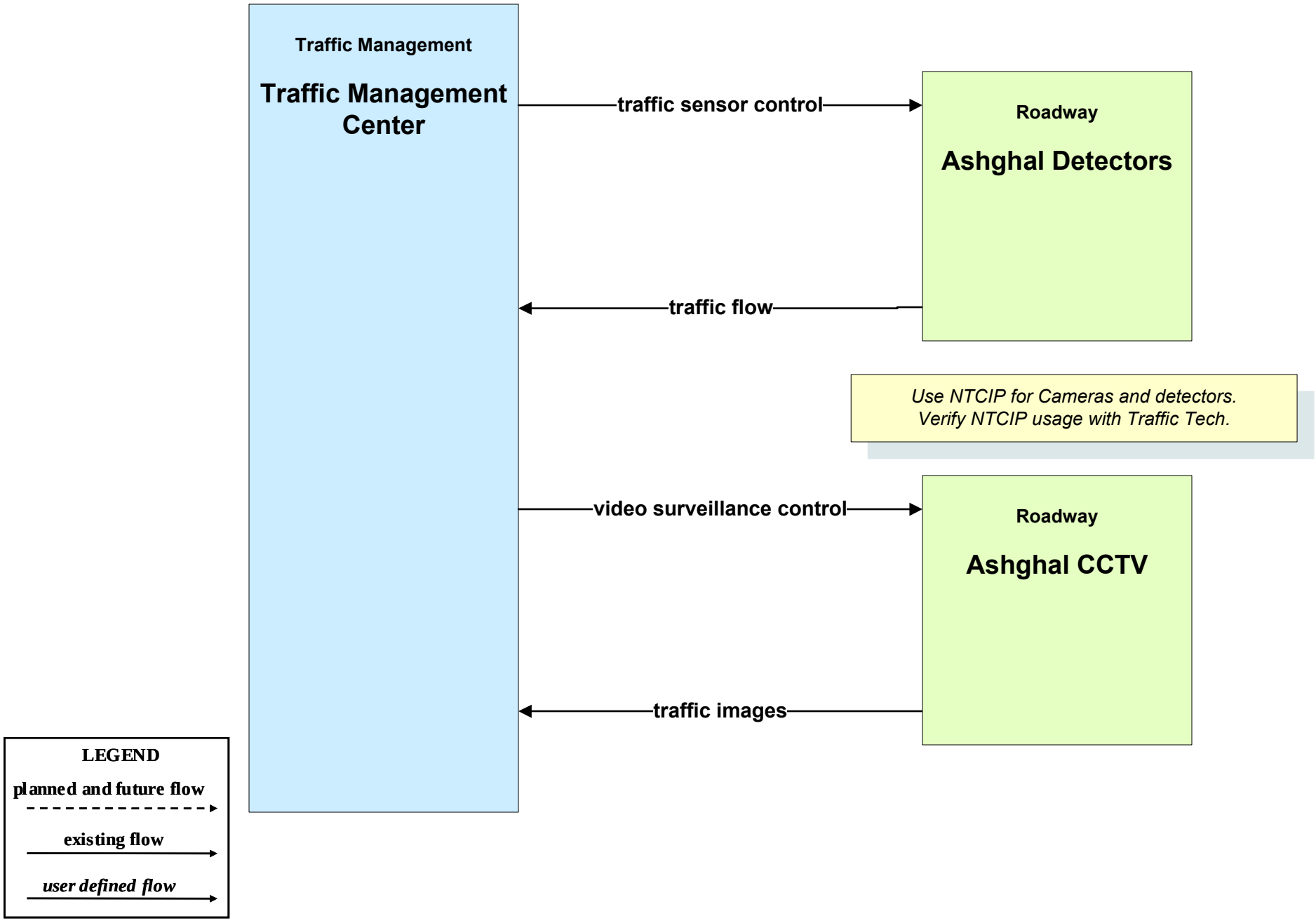




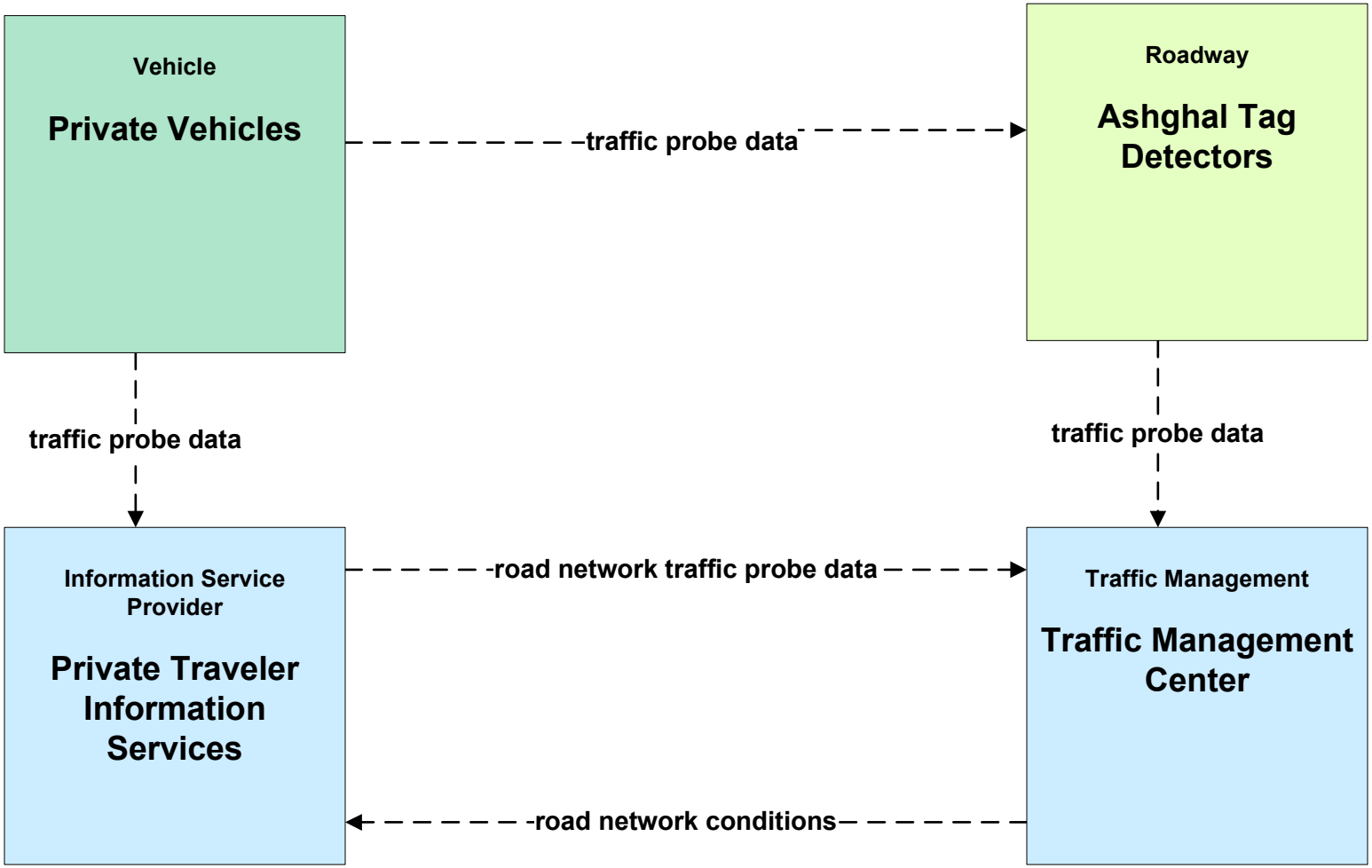
ATIS10 - SHORT Range Communications Traveler Information



ATMS01 - Network Surveillance



ATMS02 - Probe Surveillance



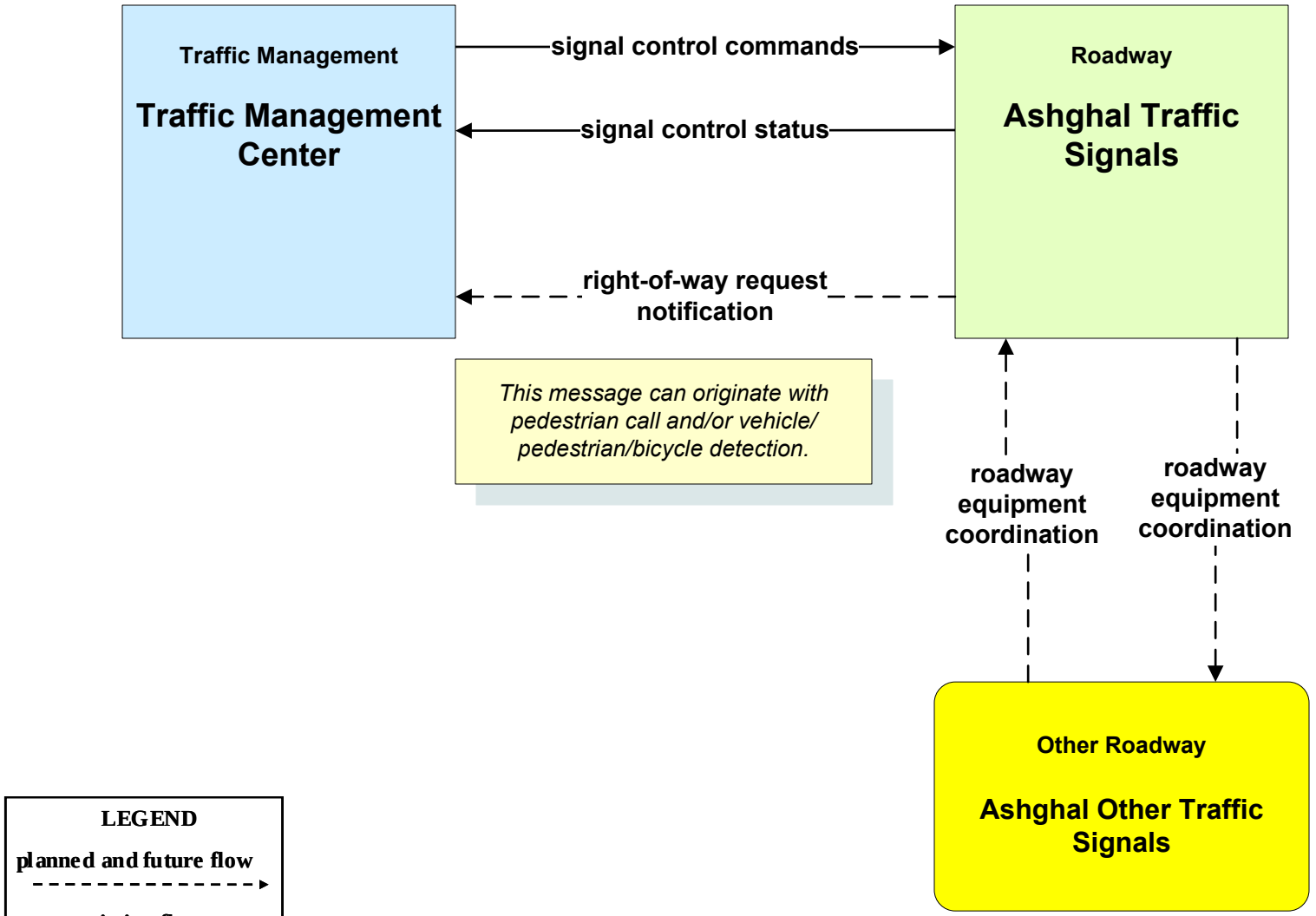
LEGEND

planned and future flow

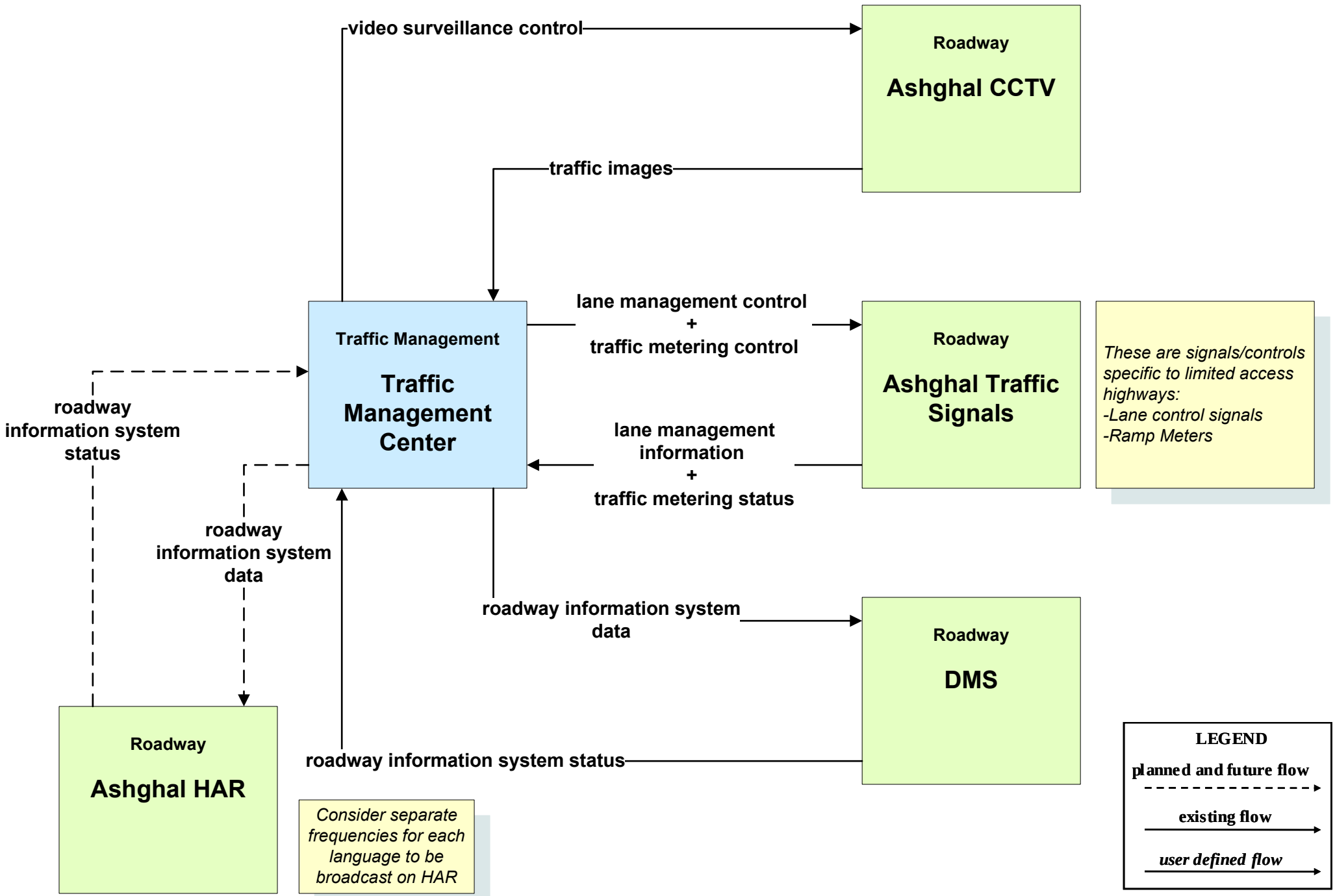
existing flow

user defined flow

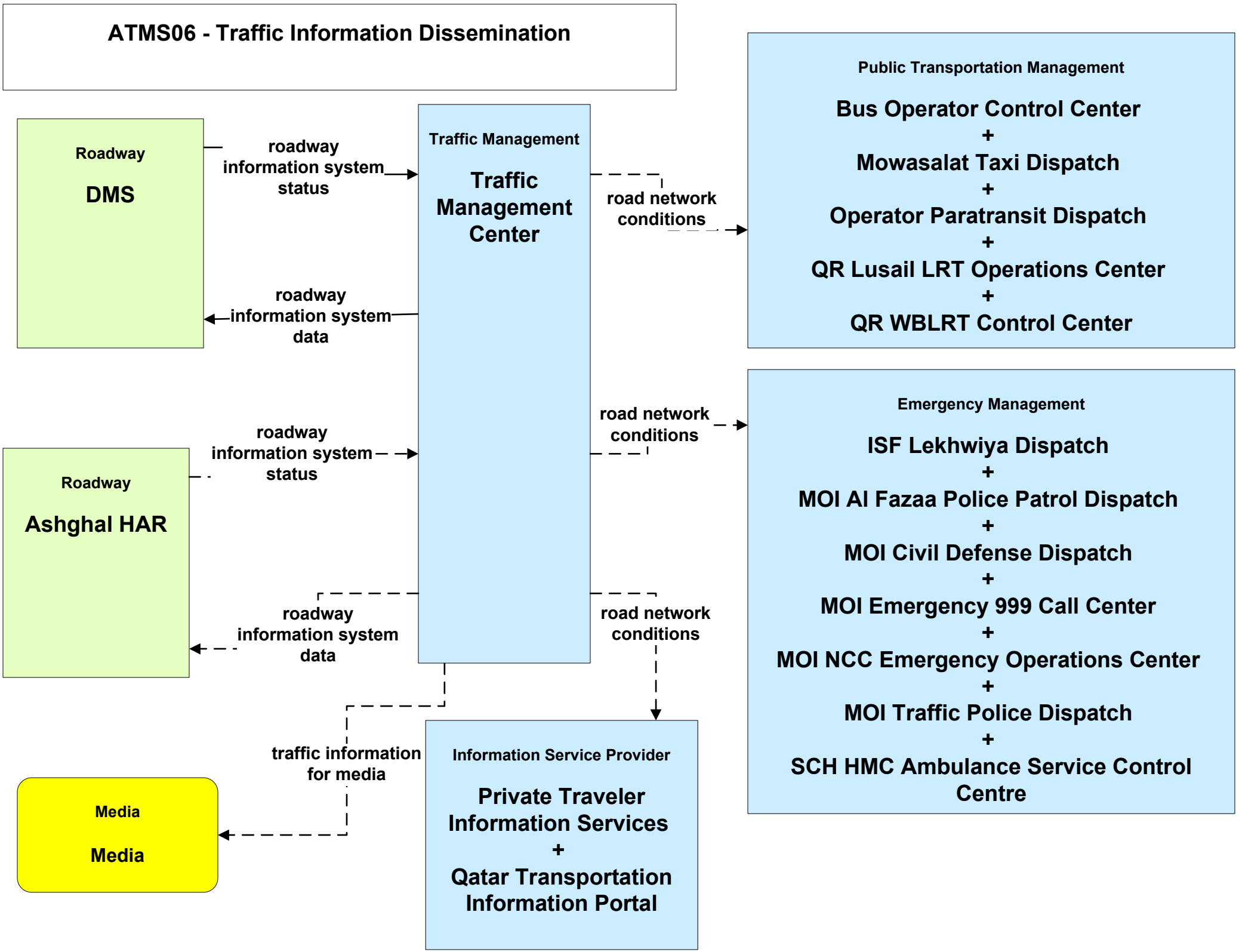
ATMS03 - Surface Street Control



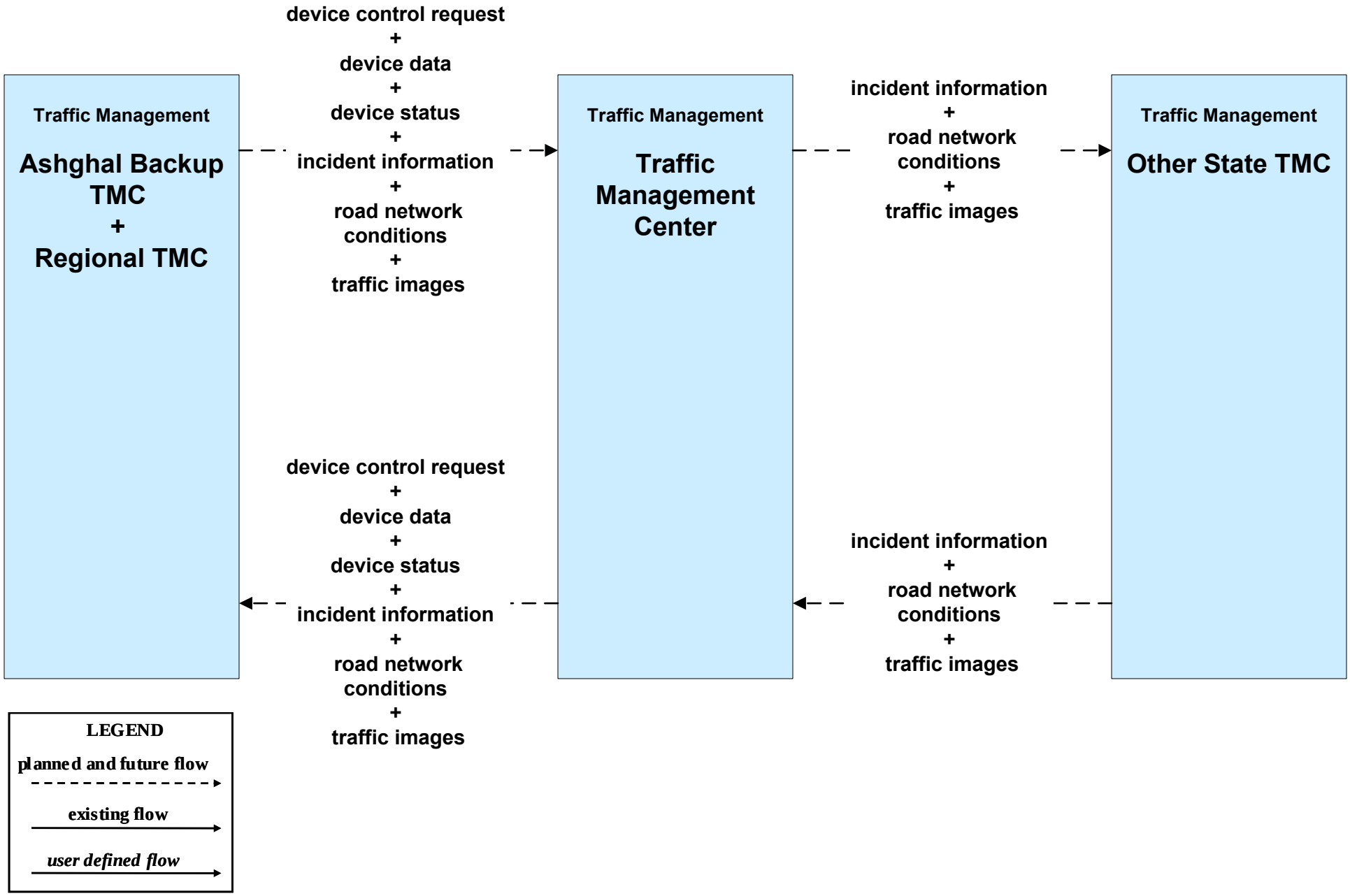
ATMS04 – Traffic Metering
Qatar Expressway Management Systems



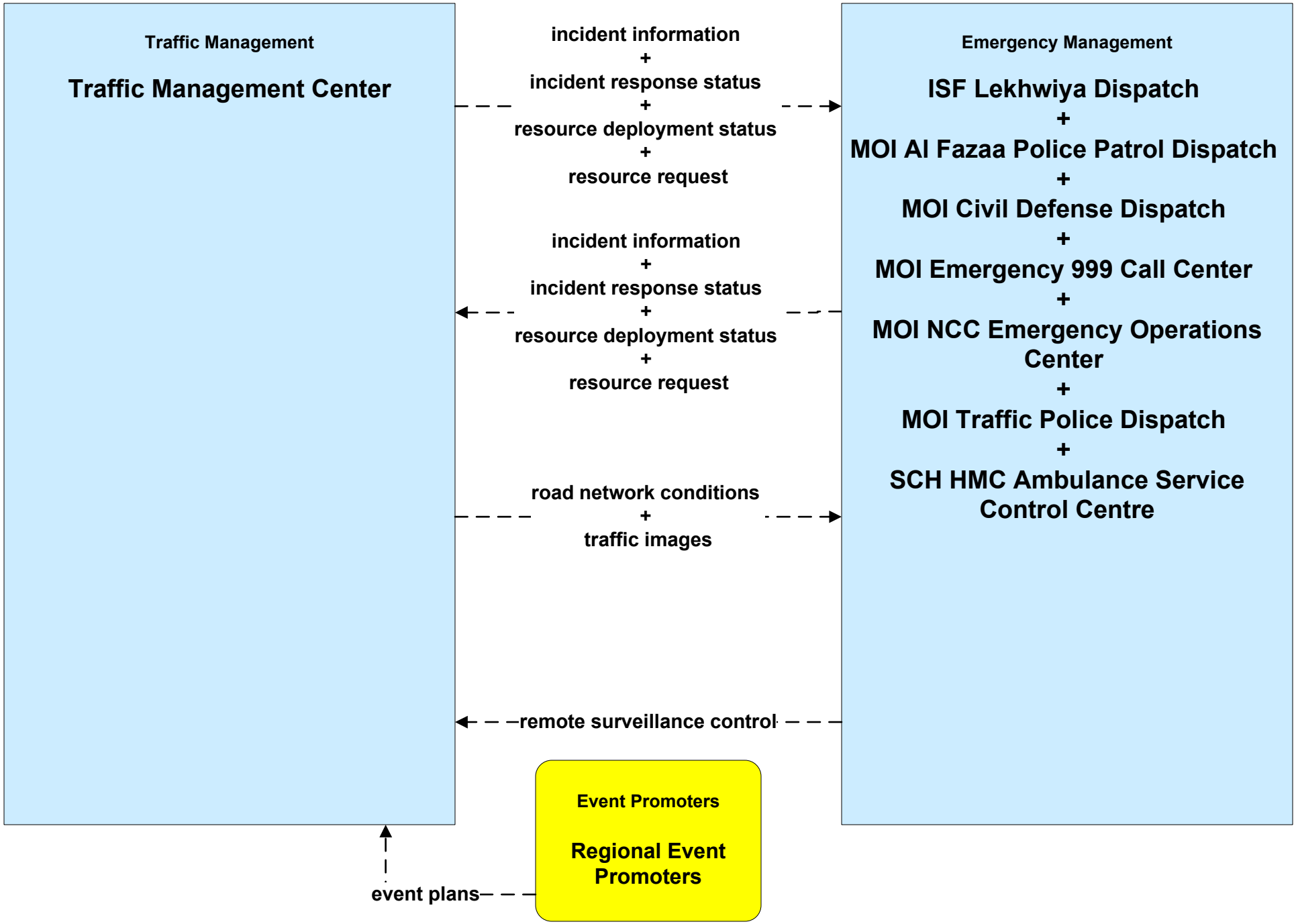
ATMS06 - Traffic Information Dissemination



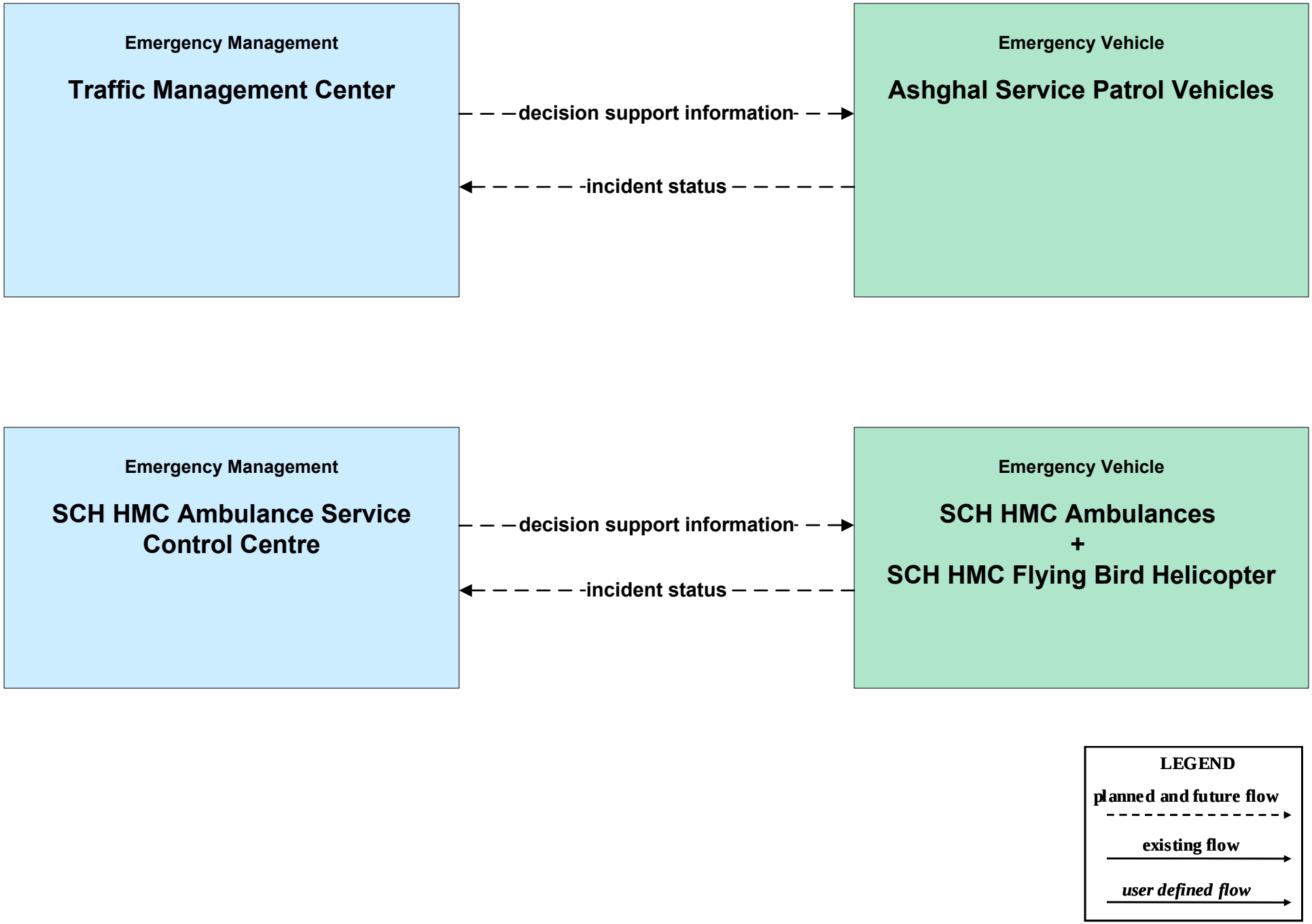
ATMS07 - Regional Traffic Control



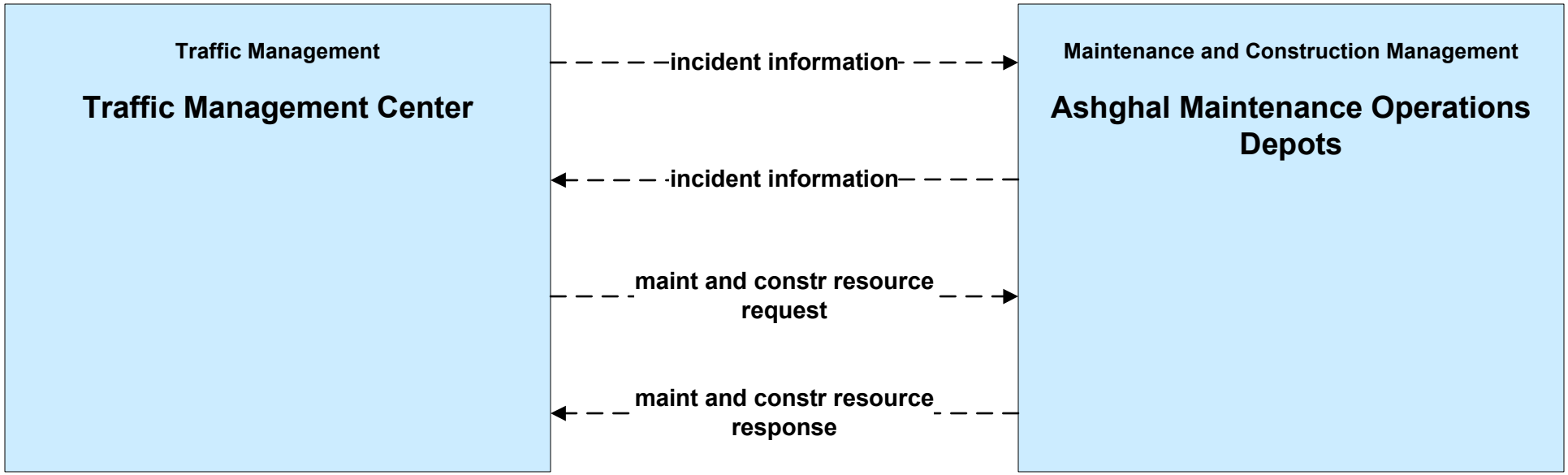
ATMS08 - Incident Management
TMC and Emergency Management Agencies and Event Promoters



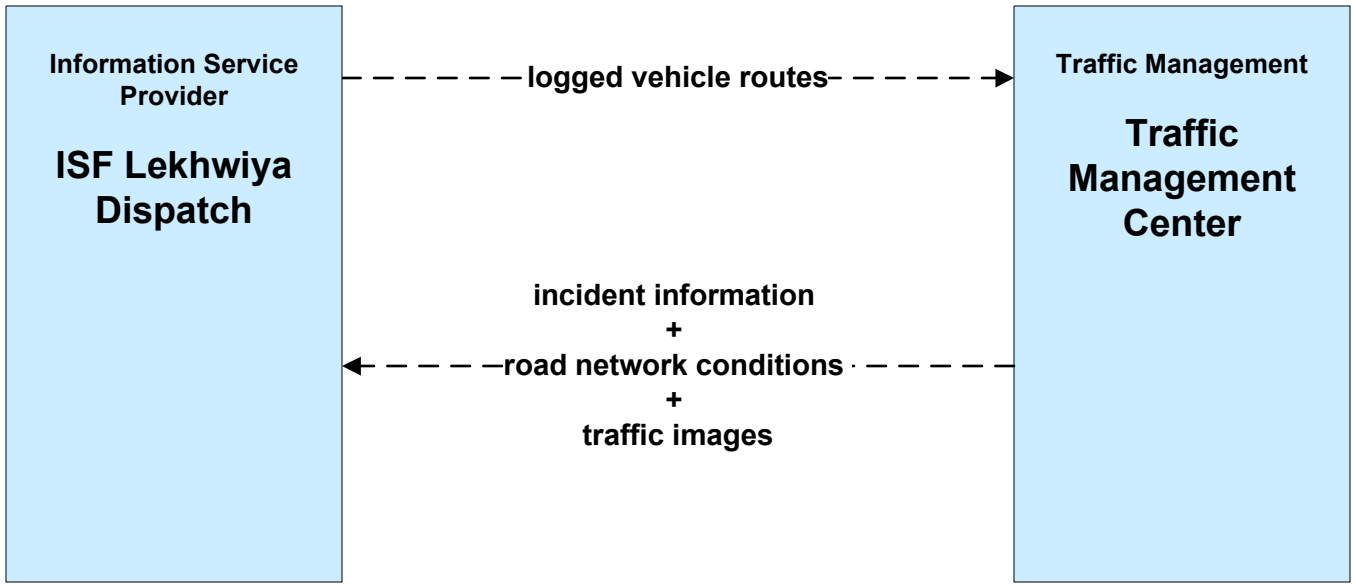
ATMS08 - Incident Management
Emergency Management Agencies and their Emergency Vehicles

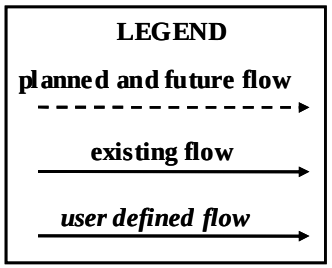


ATMS08 - Incident Management
TMC to Maintenance Interface

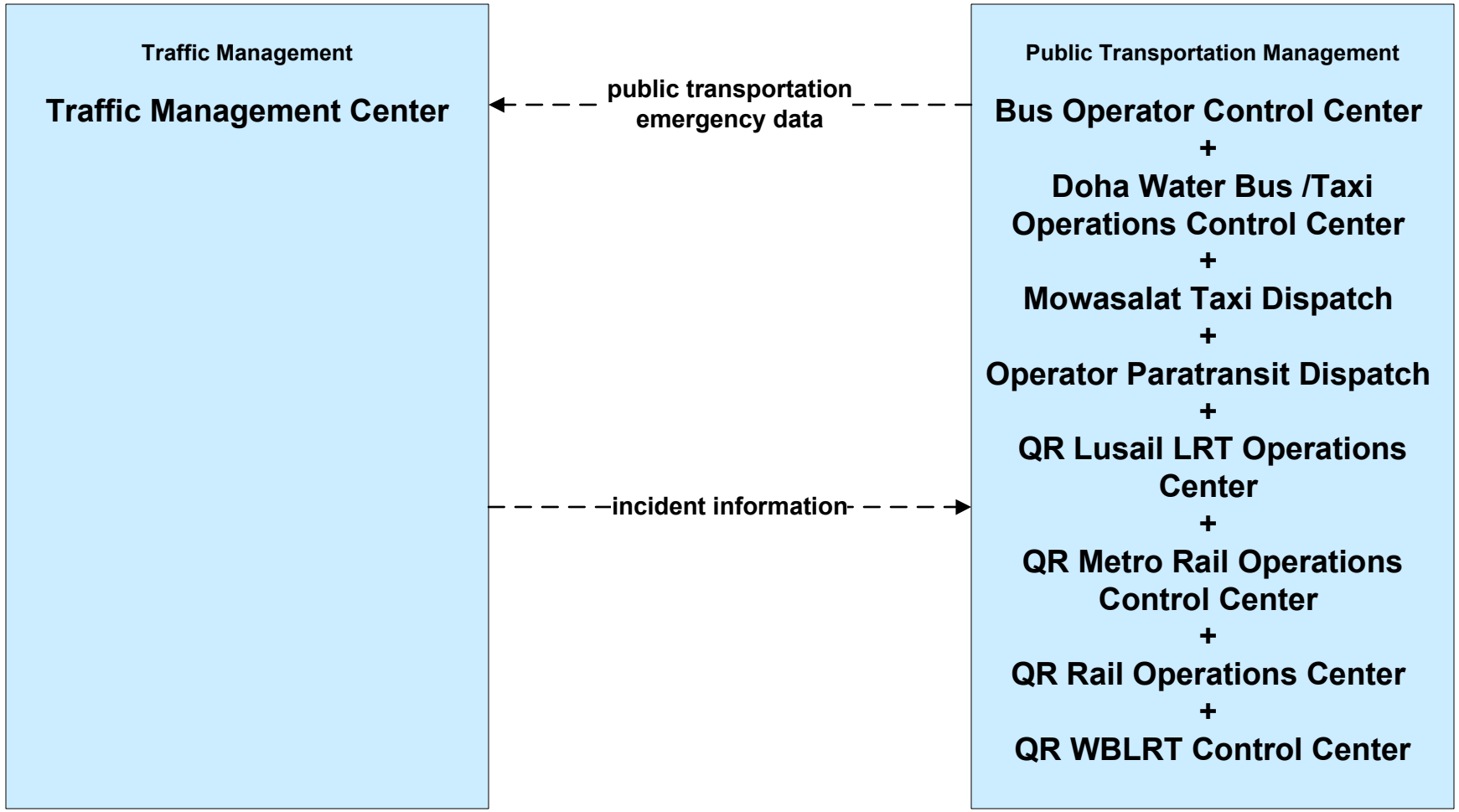


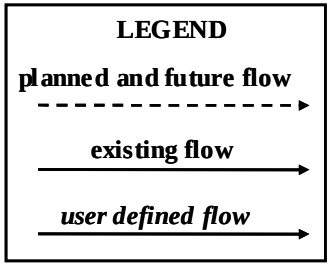
ATMS08 - Incident Management
VVIP Motorcade Operations



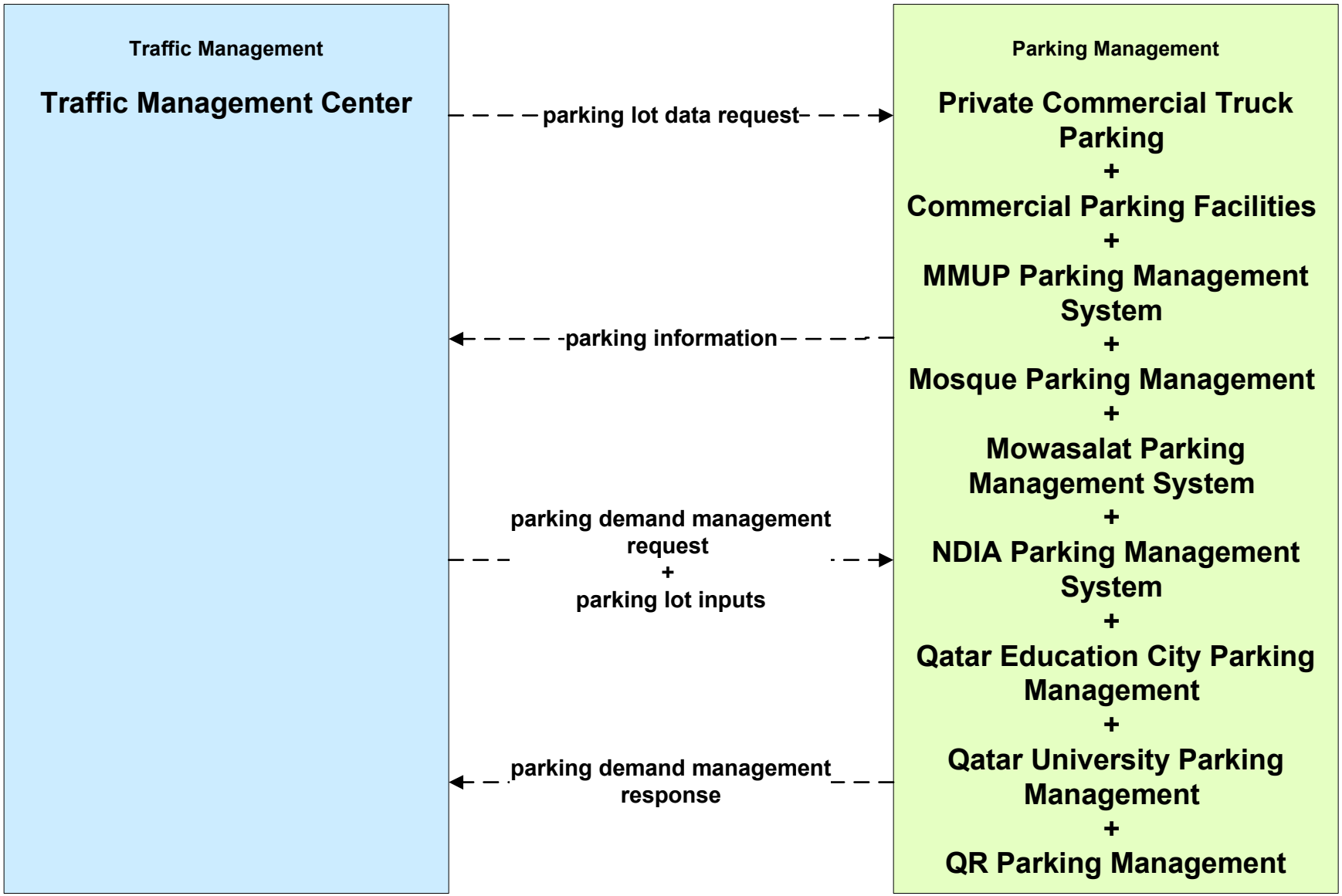


ATMS08 - Incident Management
Public Transportation Operations





ATMS09 - Traffic Forecast and Demand Management
Parking Management Systems for Special Events



LEGEND

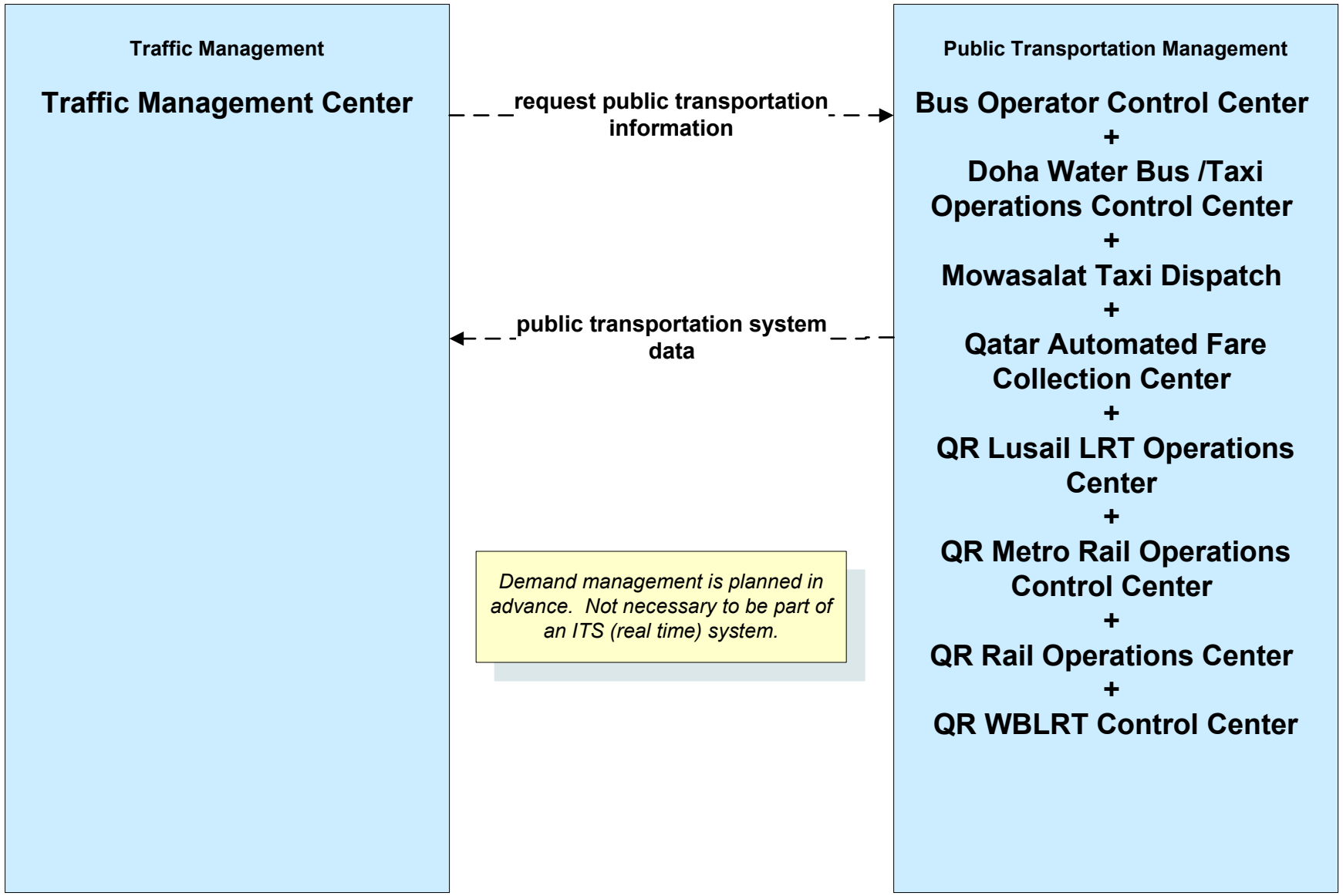
planned and future flow

existing flow

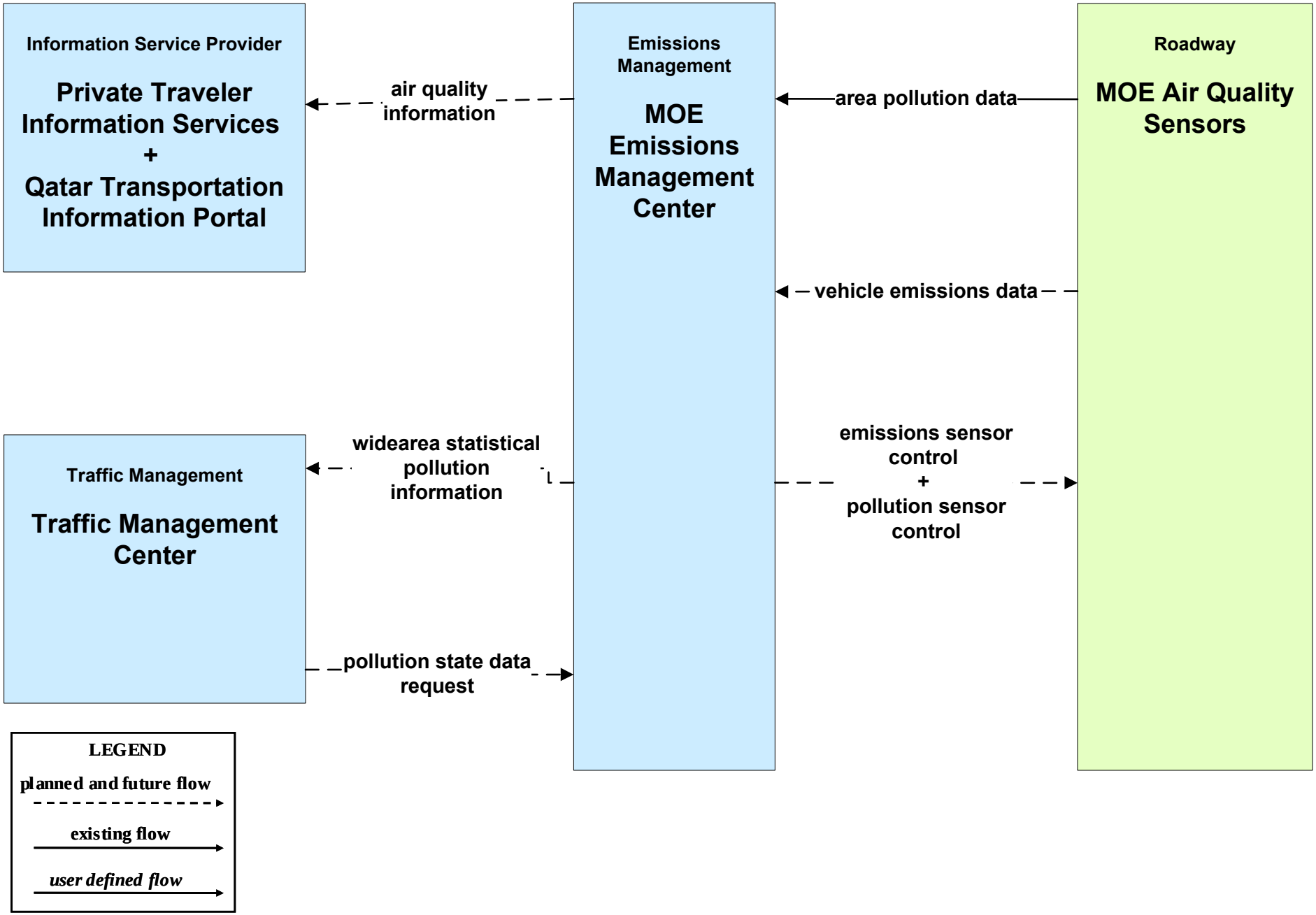
user defined flow

Will Ashghal include: Lusail Parking or Ashghal (TBD?) Park and Ride parking?

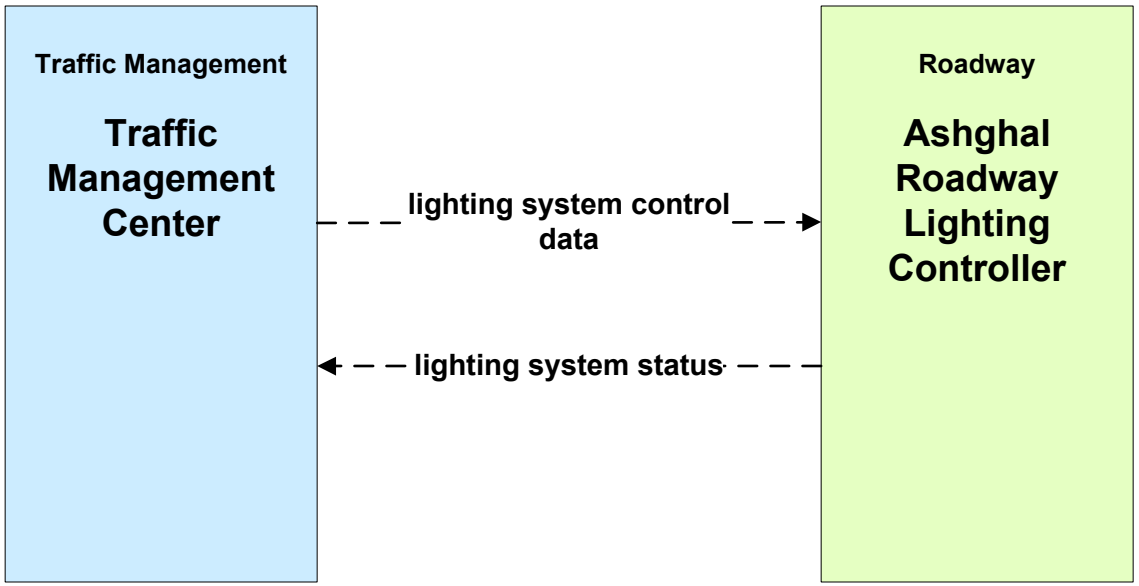
ATMS09 - Traffic Forecast and Demand Management
Public Transportation Management Systems for Special Events



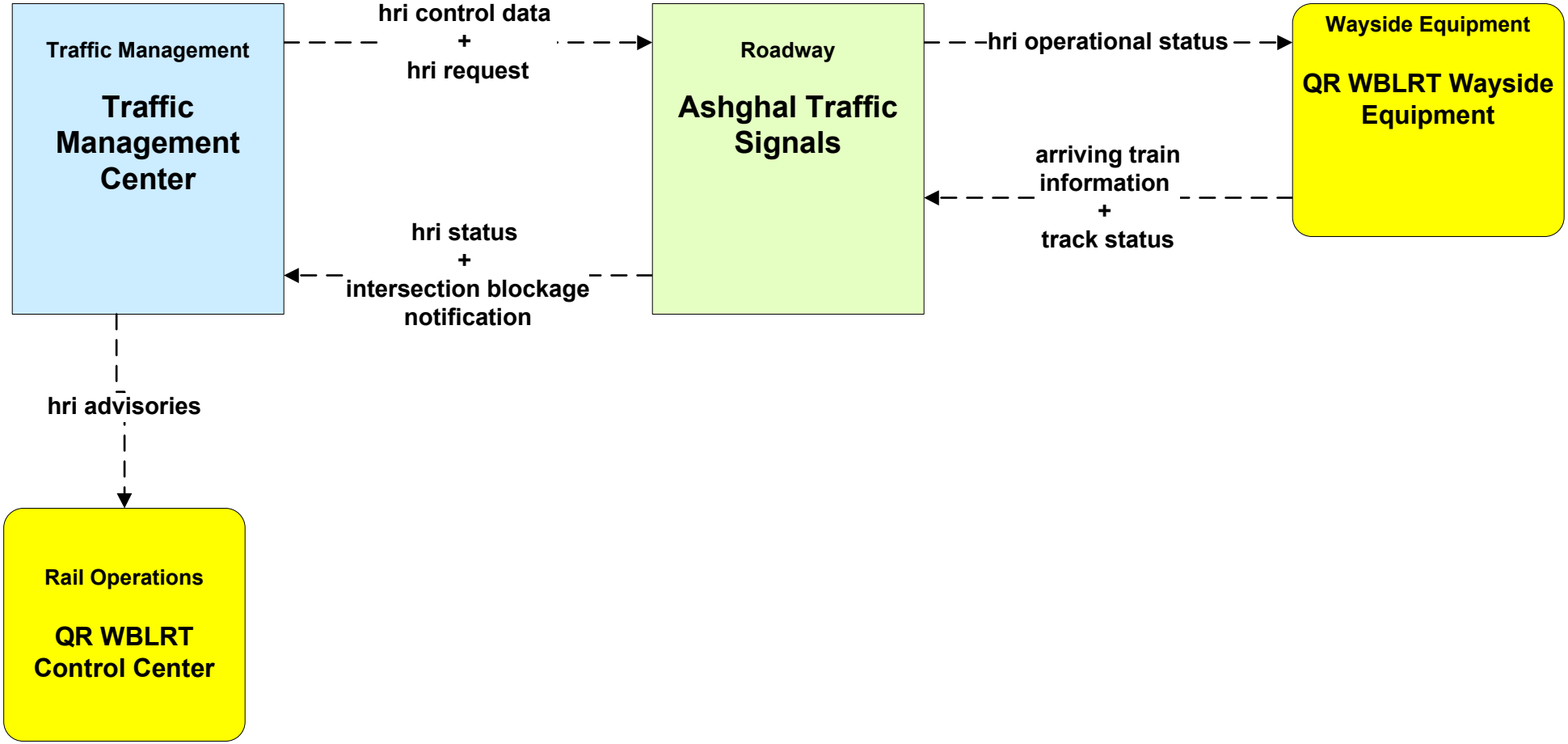
ATMS11 - Emissions Monitoring and Management
Ministry of Environment



ATMS12 – Roadside Lighting Control
Ashghal

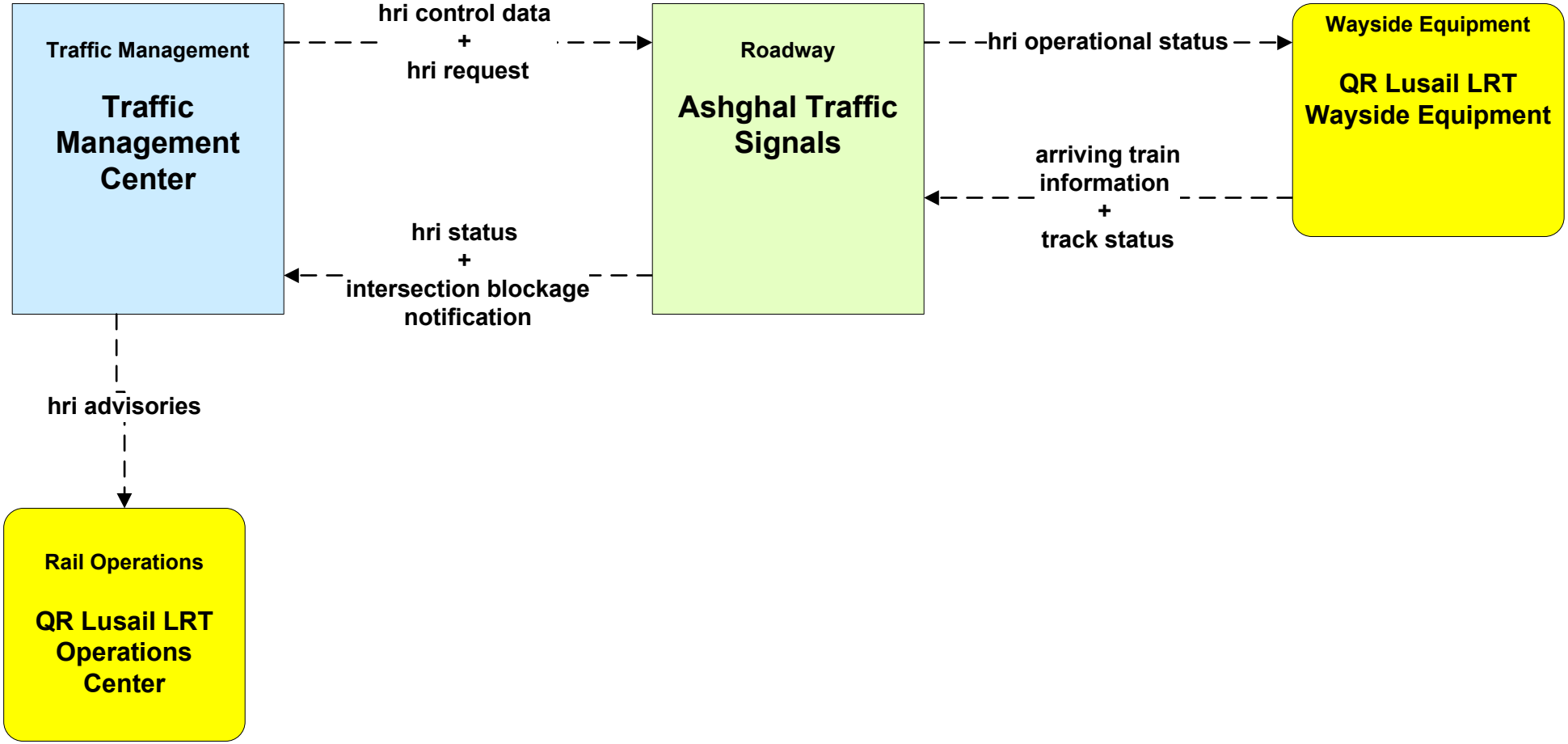


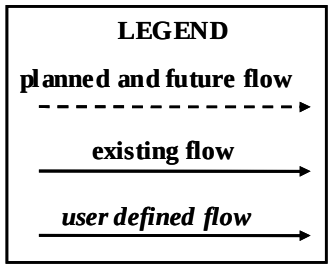
ATMS14 - Advanced Railroad Grade Crossing
WBLRT Rail



Only QR Lusail LRT and WBLRT have at-grade (level) crossings.

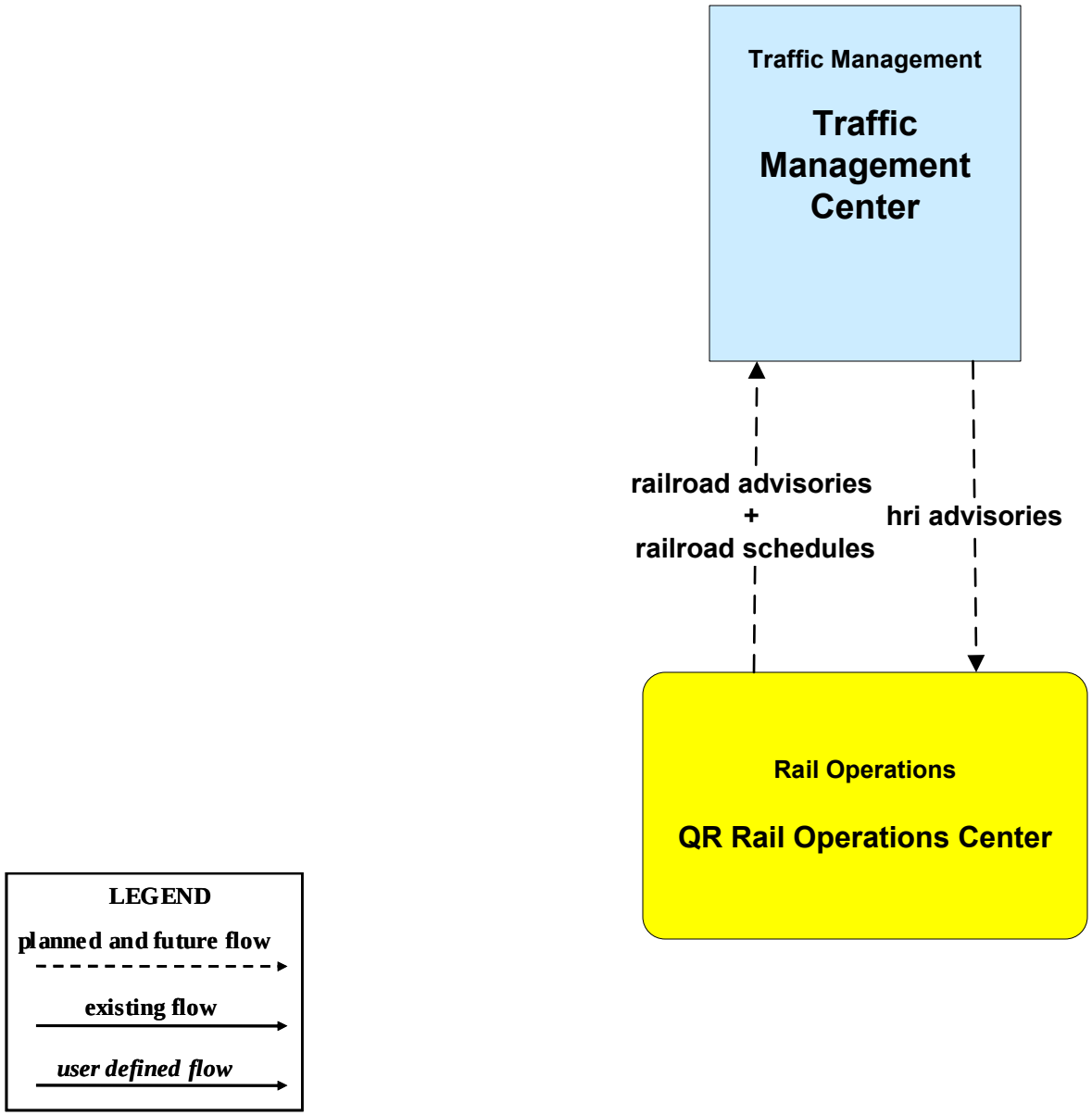
ATMS14 - Advanced Railroad Grade Crossing
QR Lusail LRT



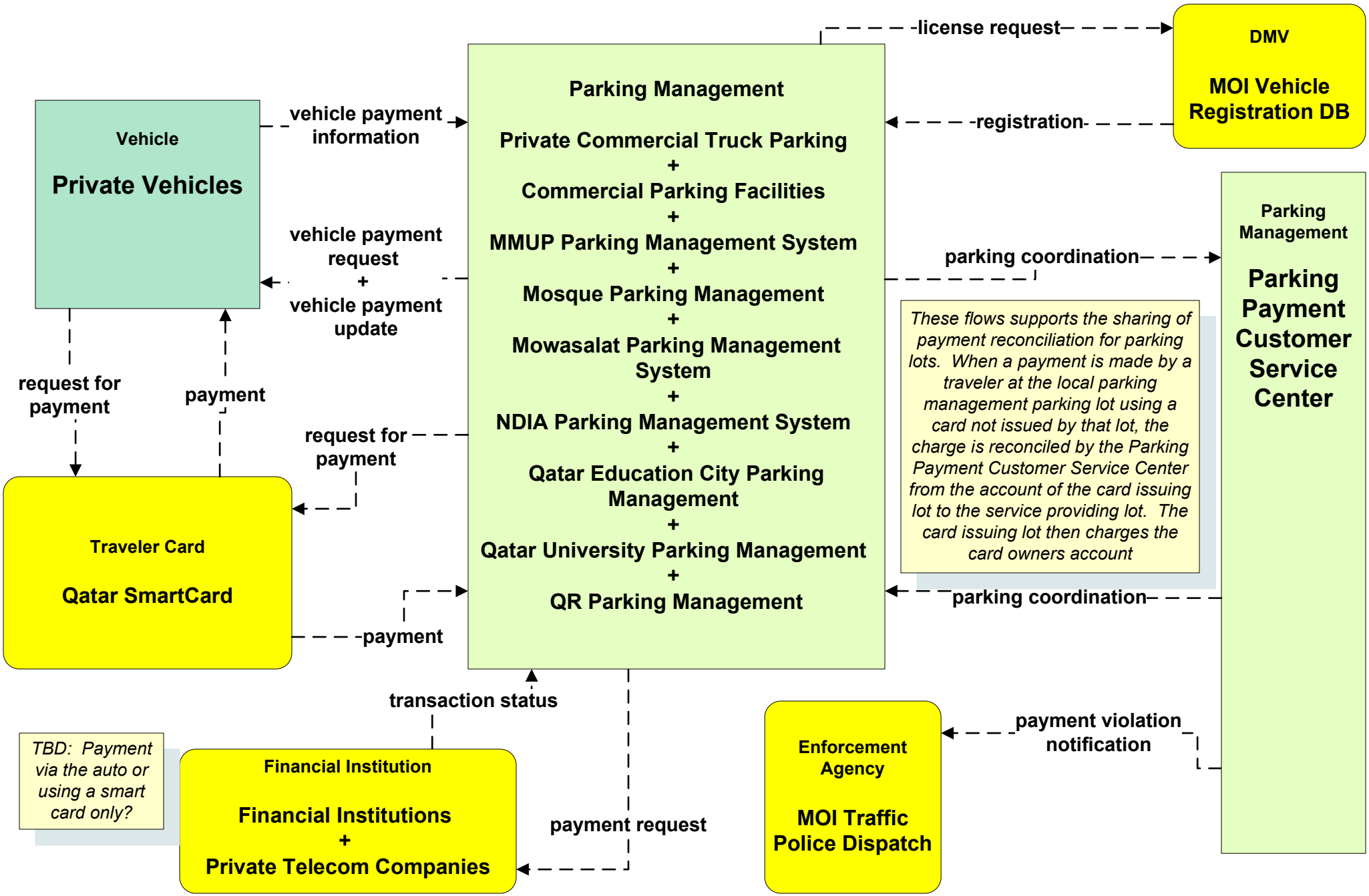


Only QR Lusail LRT and WBLRT have at-grade (level) crossings.

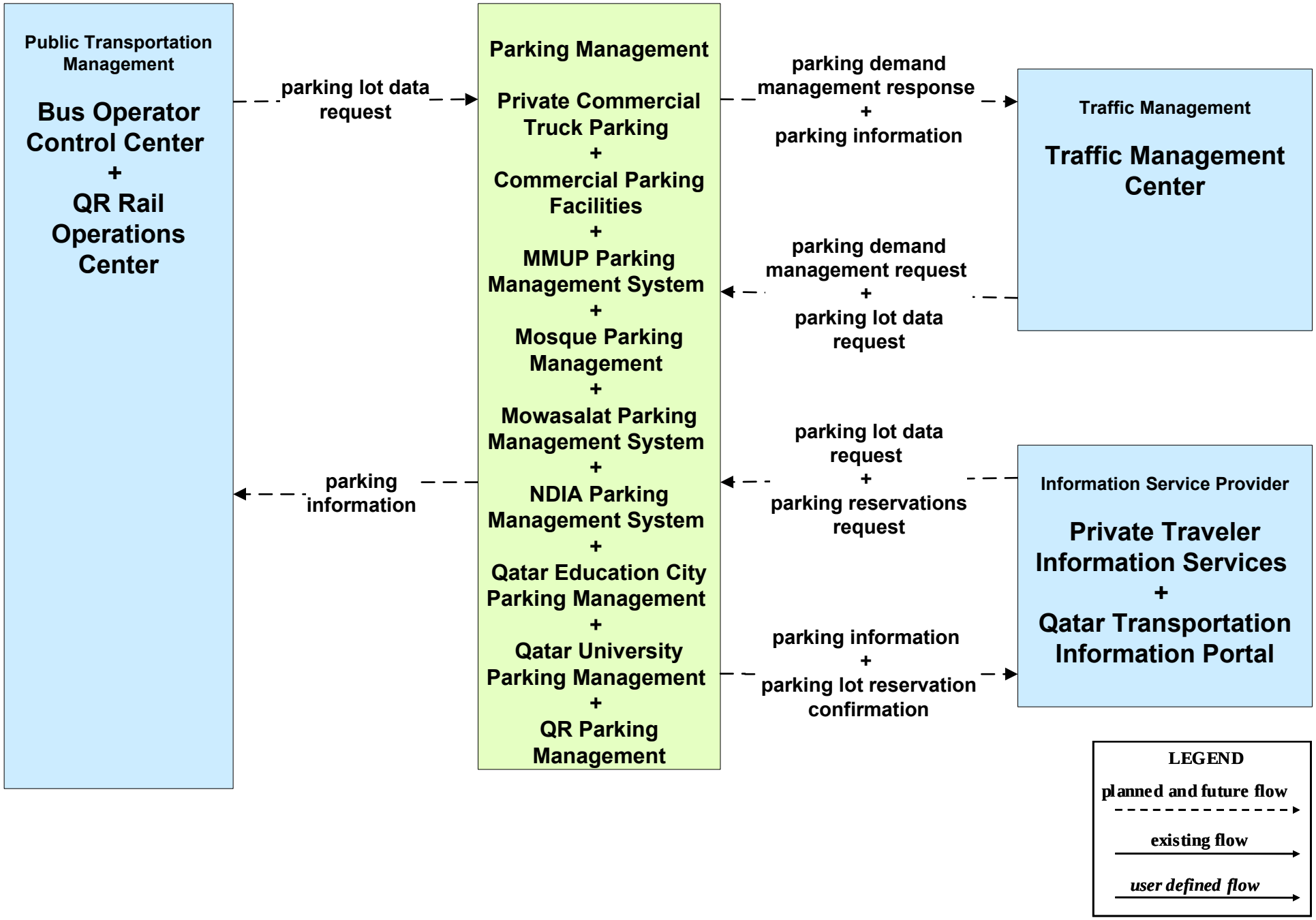
ATMS15 - Railroad Operations Coordination



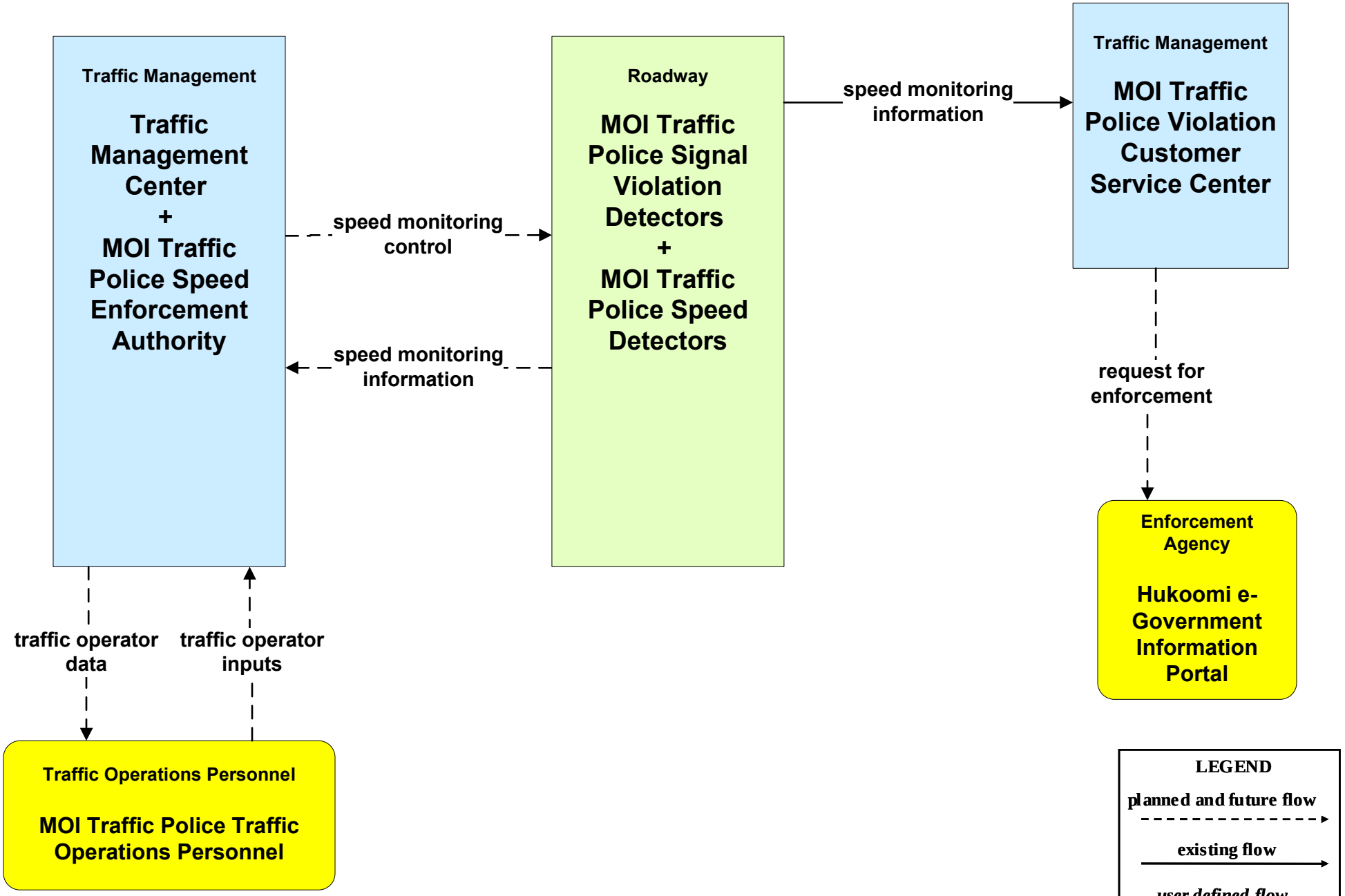
ATMS16 - Parking Facility Management
Ashghal



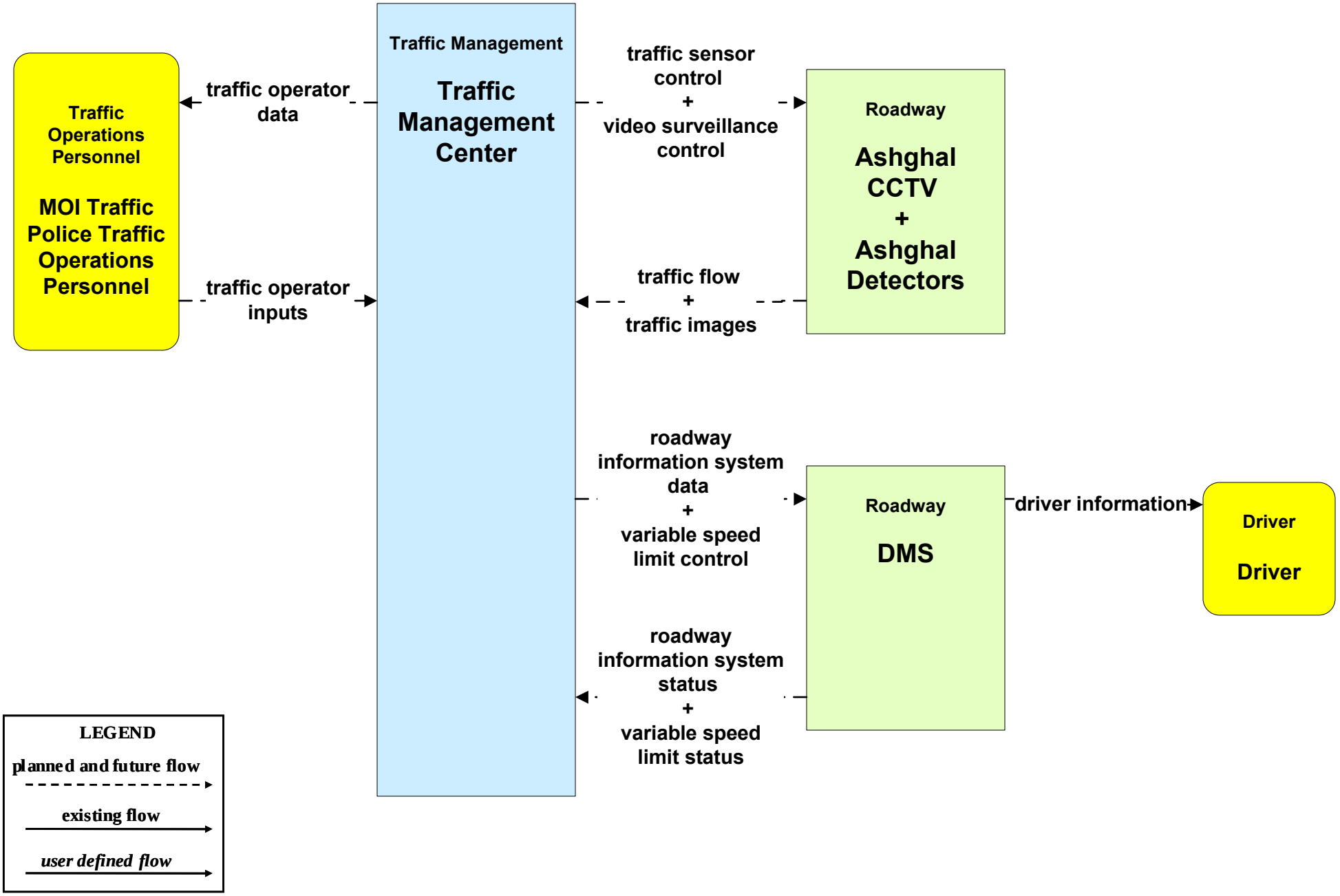
ATMS17 - Regional Parking Management



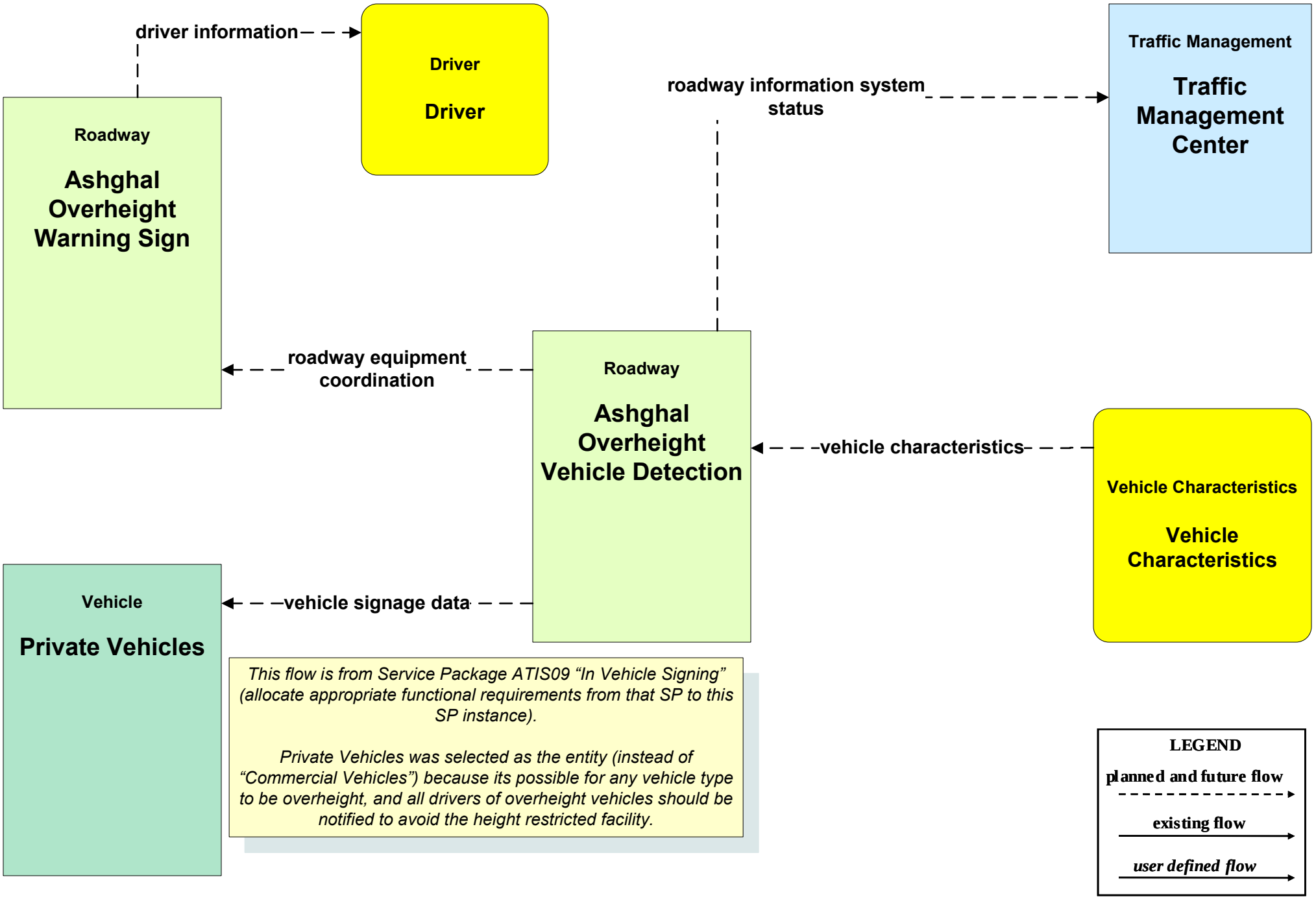
ATMS19 - Speed Monitoring
Speed Monitoring and Signal Violation Enforcement



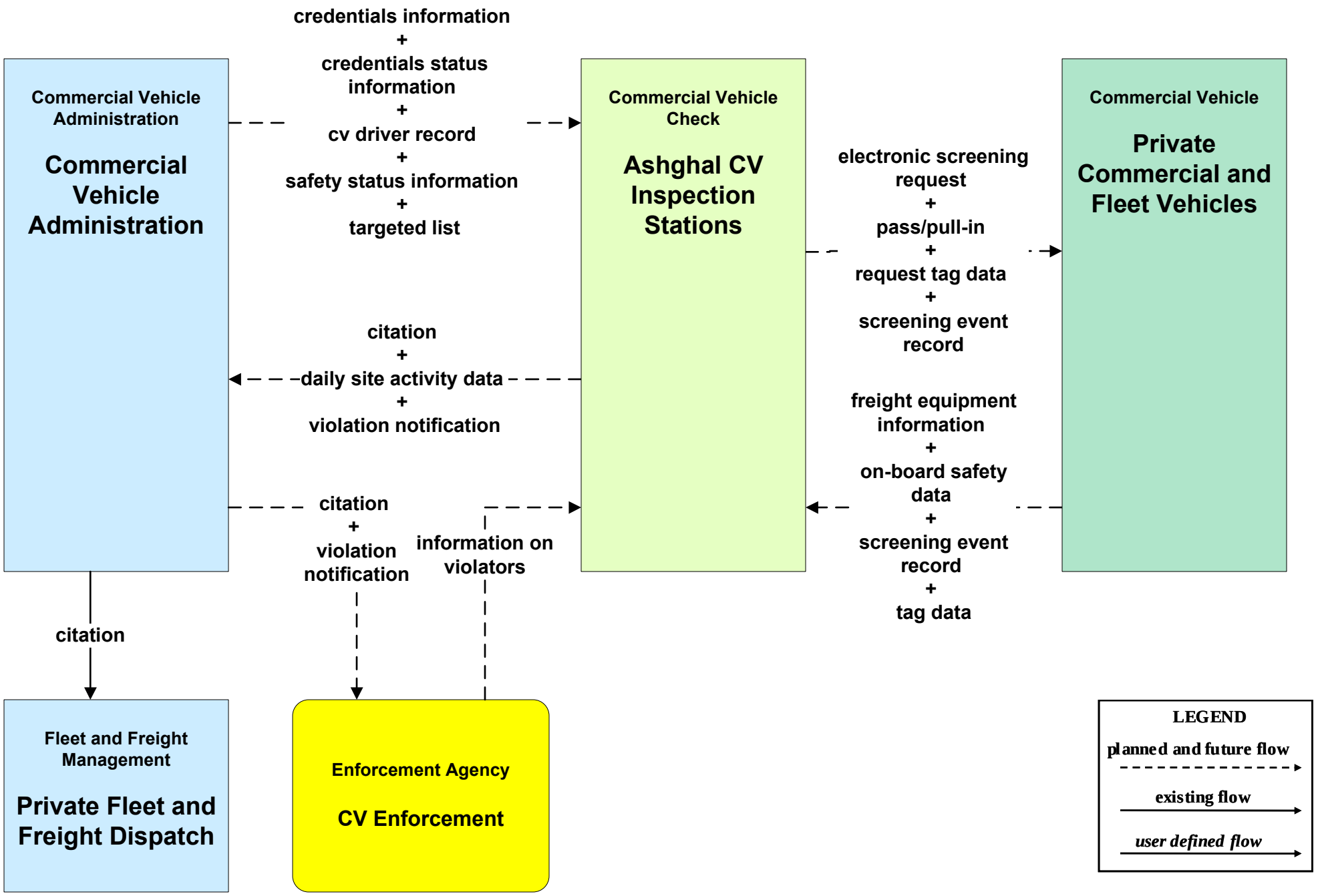
ATMS22 – Variable Speed Limits



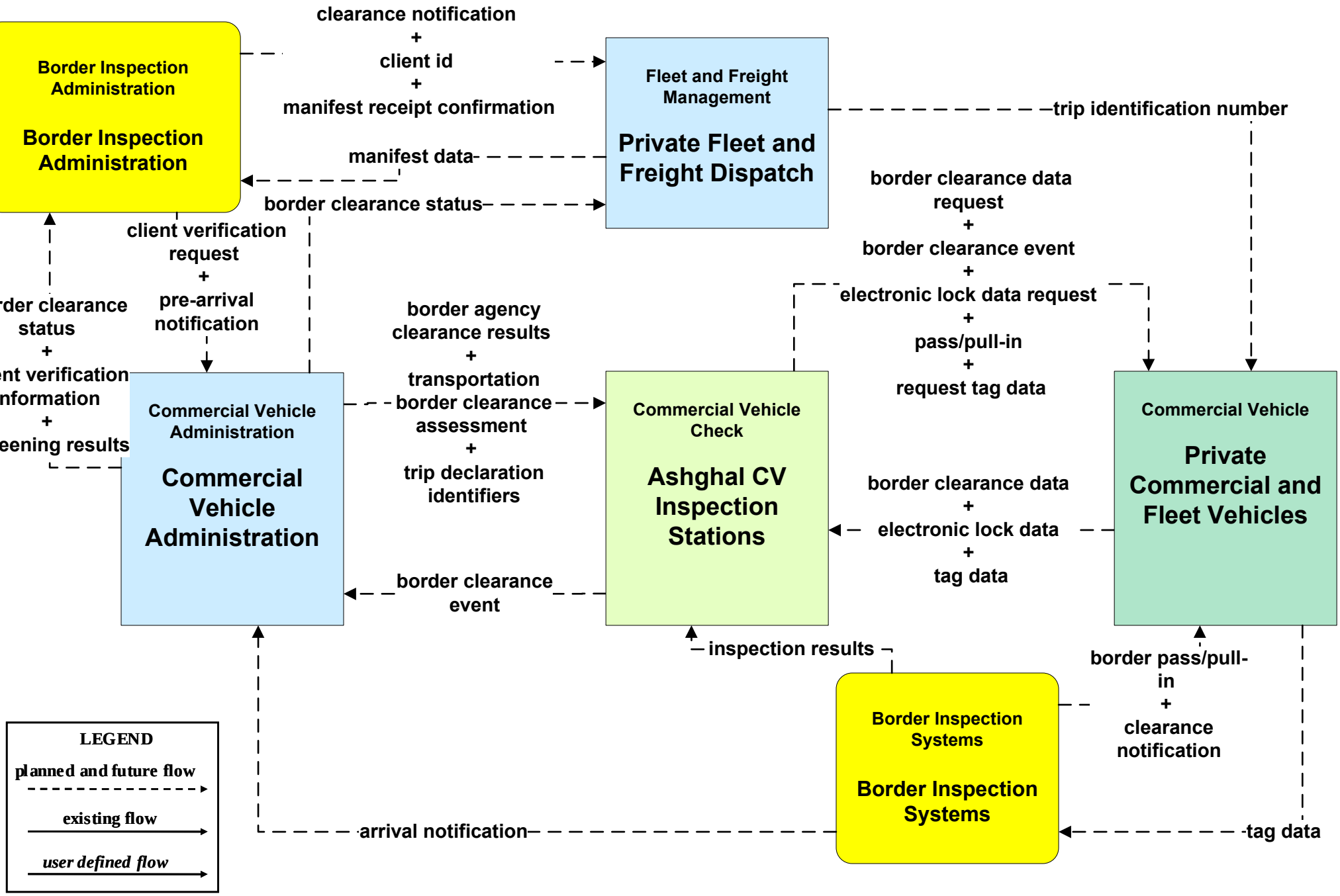
ATMS24 - Dynamic Roadway Warning
Overheight Detection and Alarms



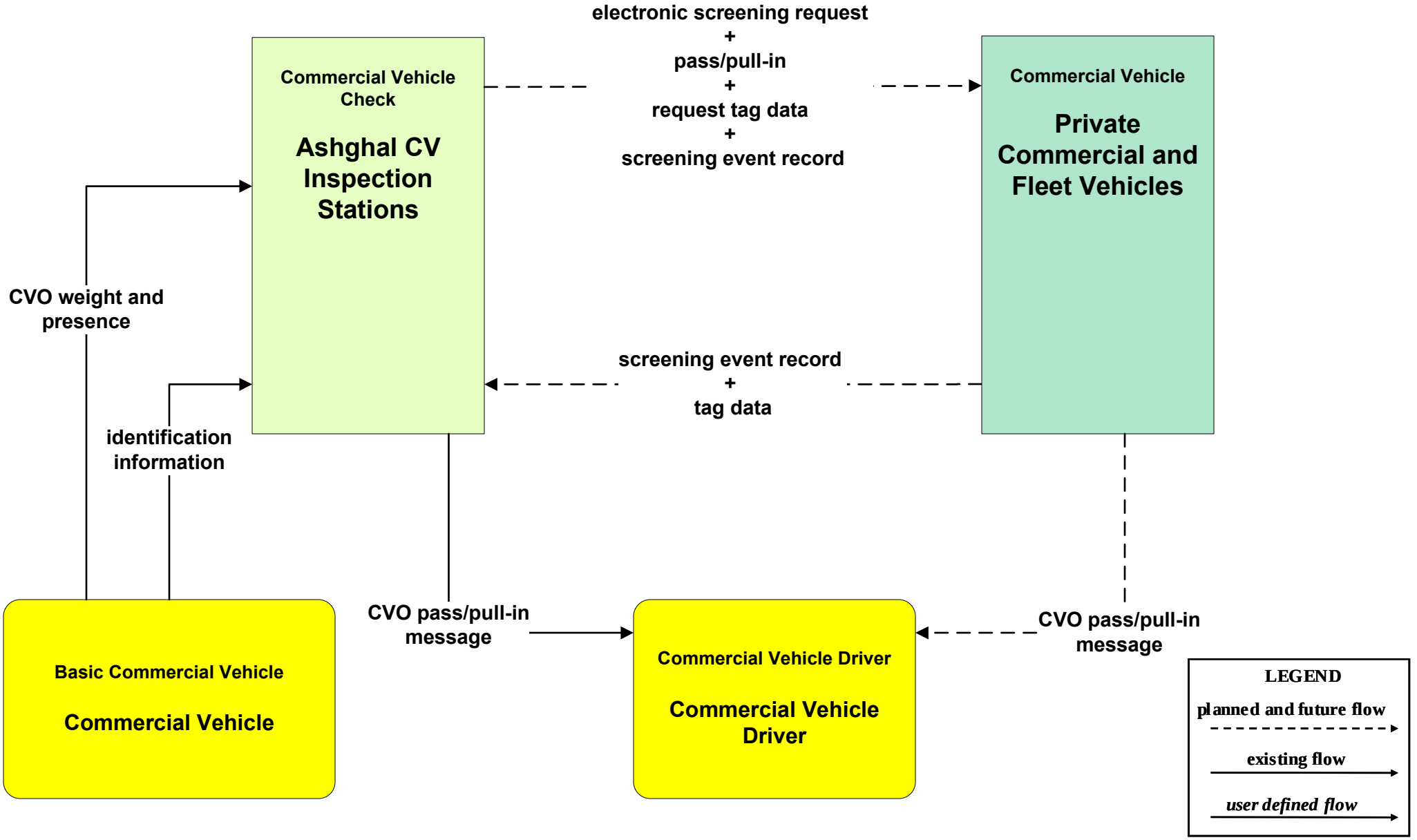
CVO03 - Electronic Clearance



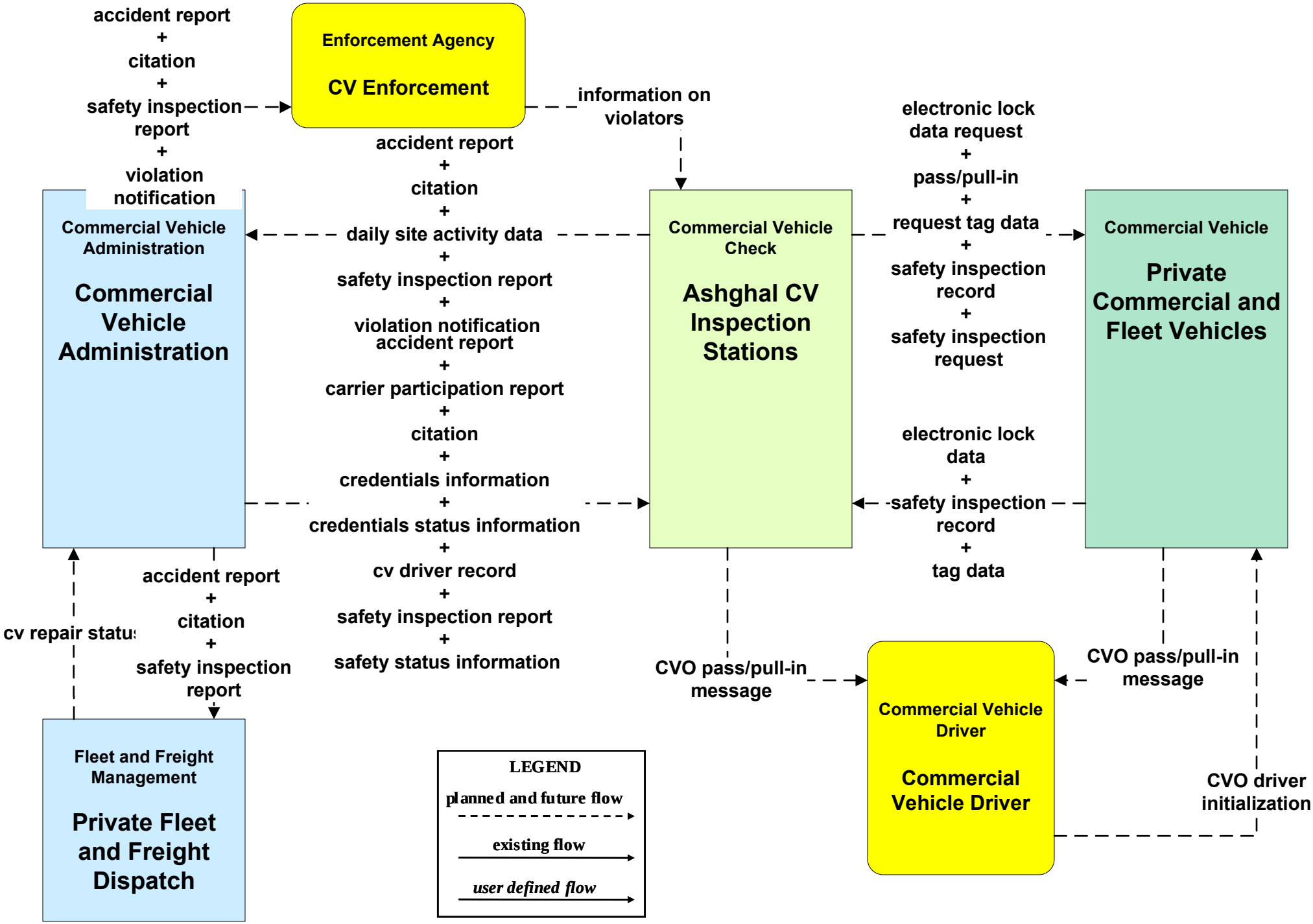
CVO05 - International Electronic Border Clearance



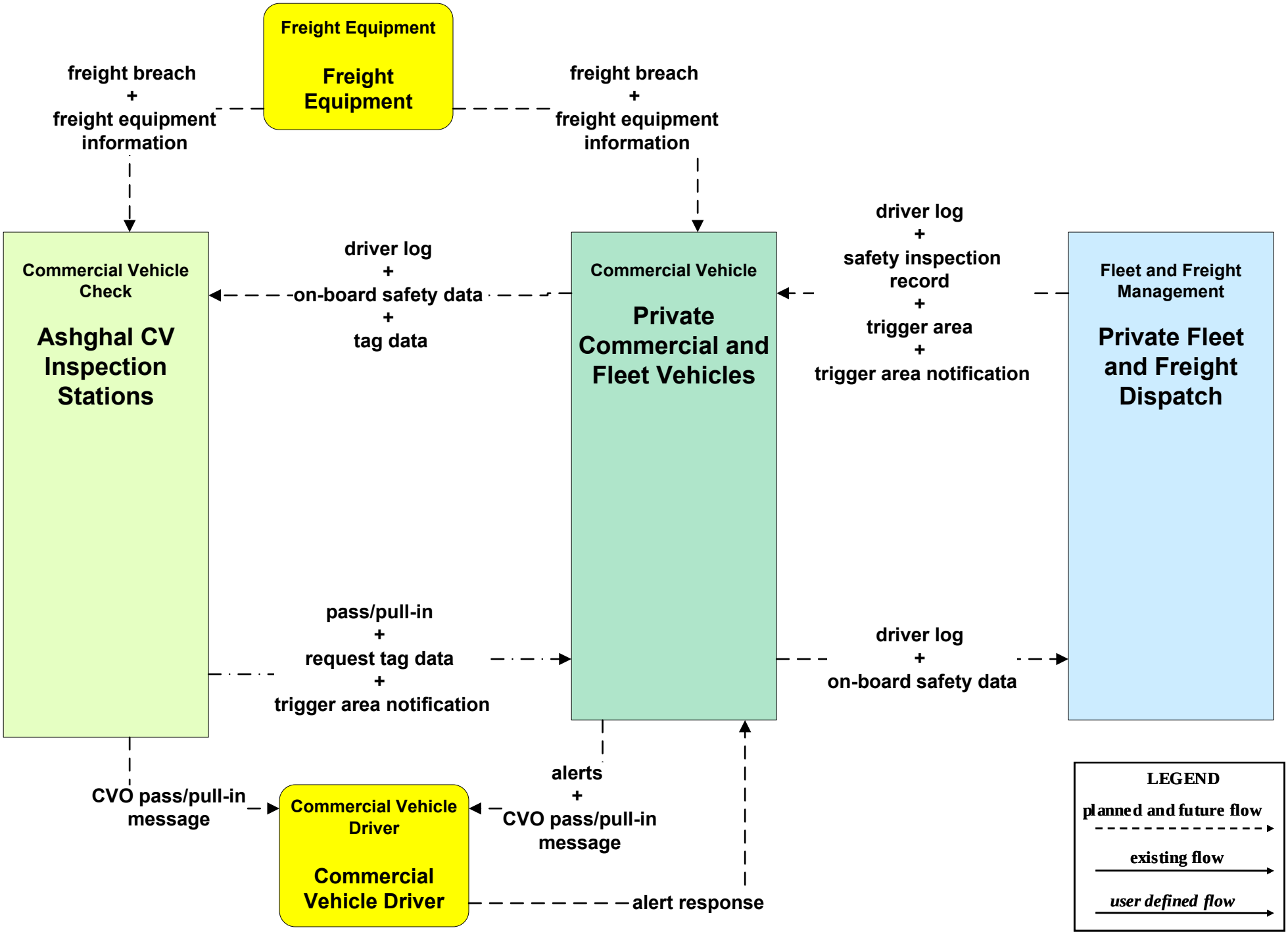
CVO06 - Weigh-In-Motion



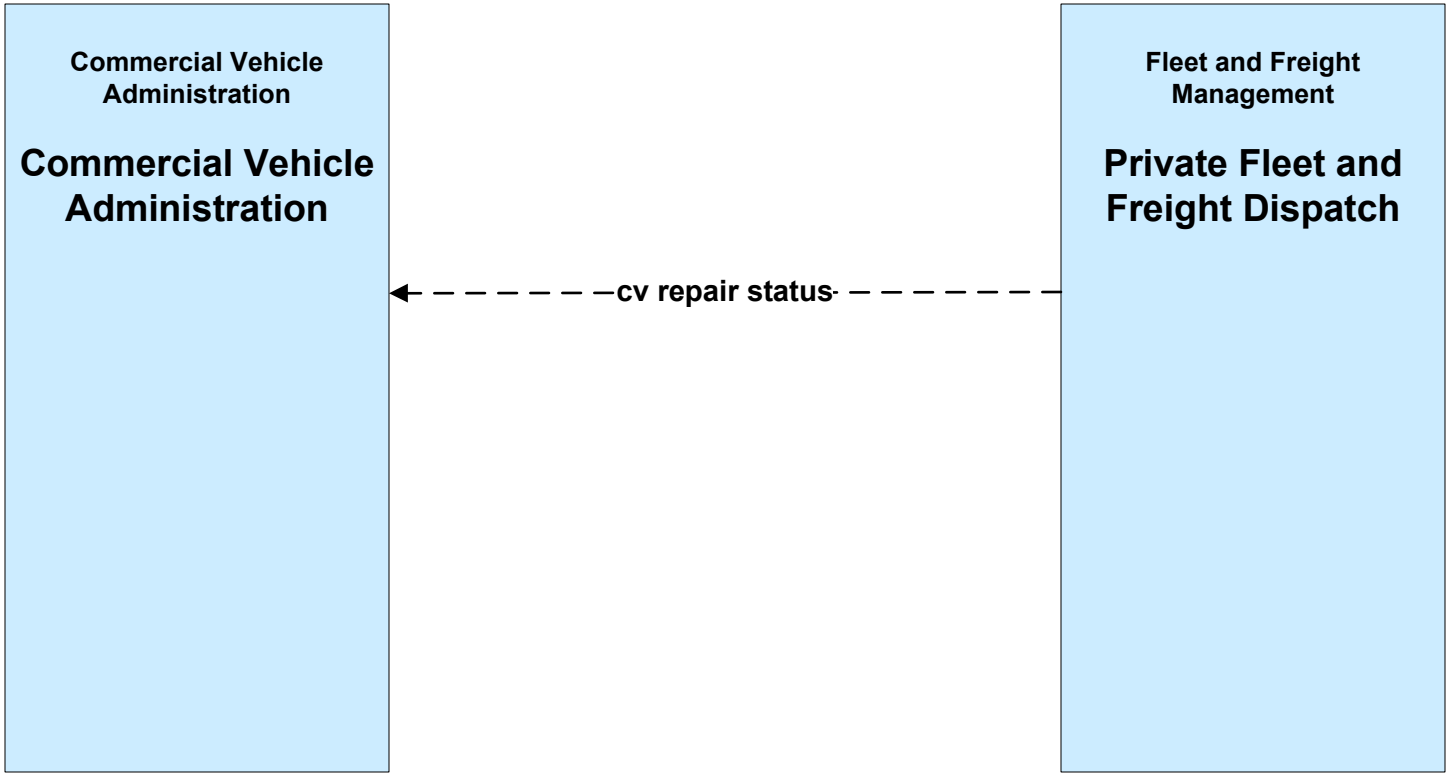
CVO07 – Roadside CVO Safety

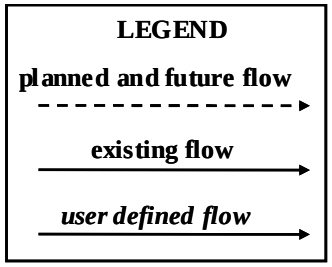


CVO08 - On-board CVO Safety

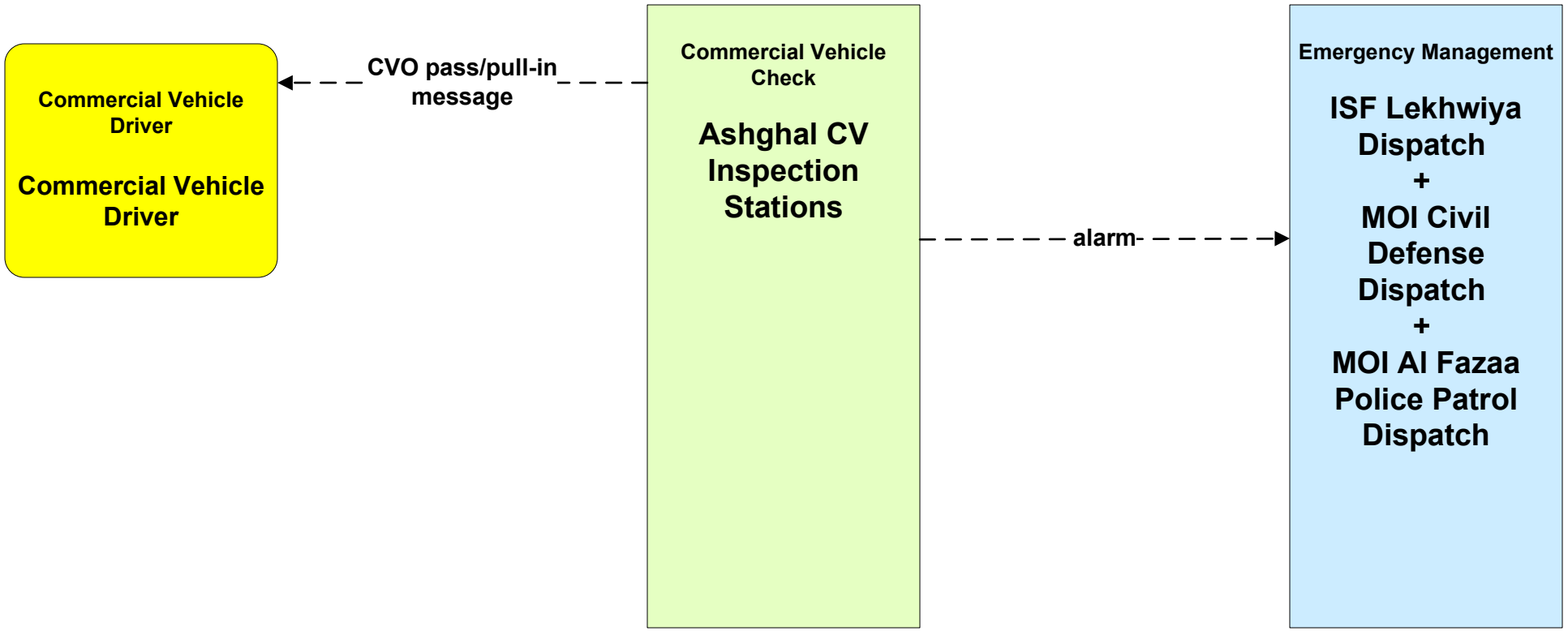


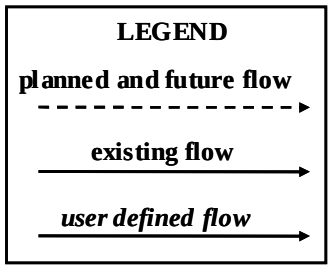
CVO09 – CVO Fleet Maintenance





CVO11 - Roadside HAZMAT Security Detection and Mitigation





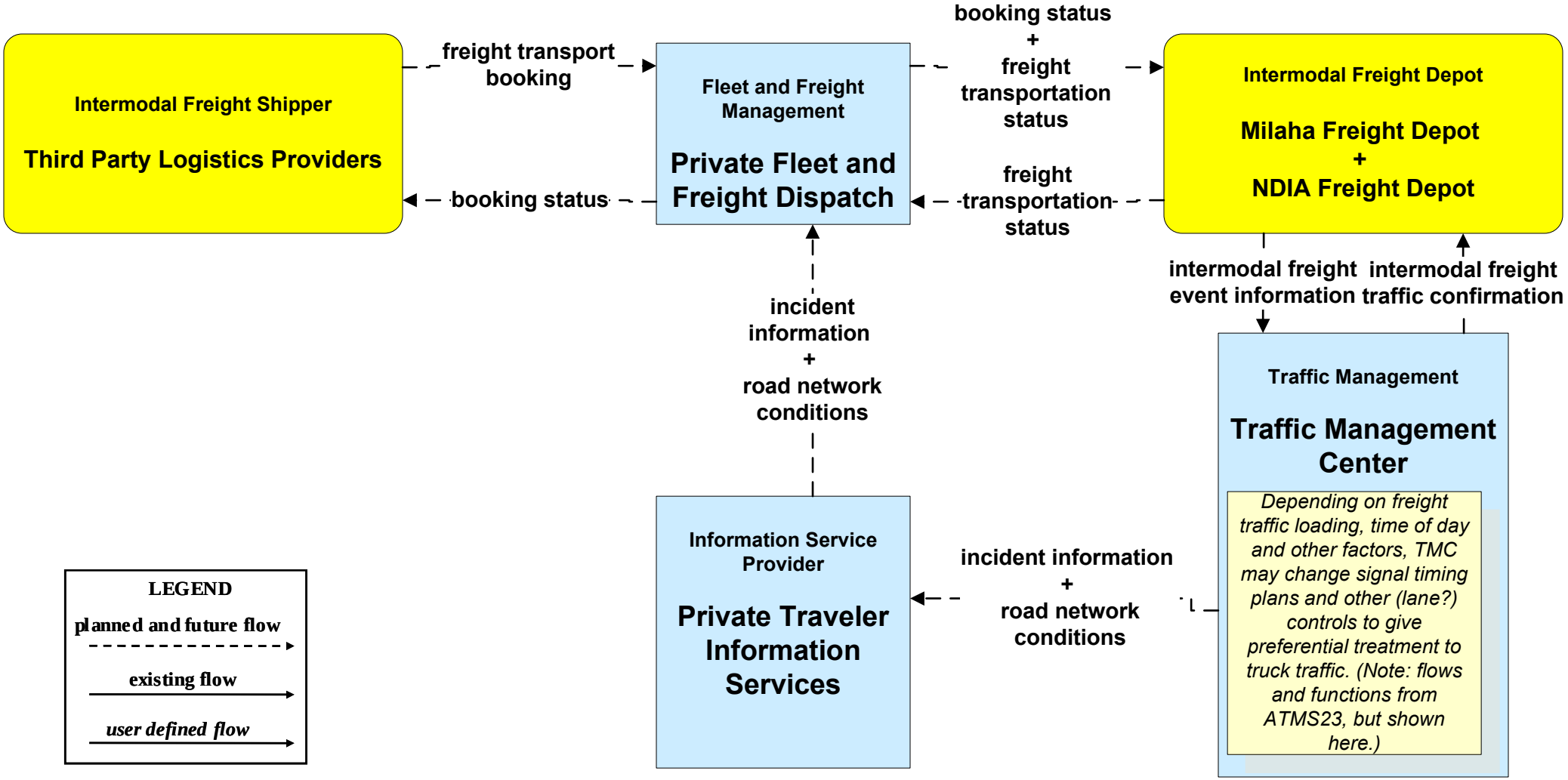
CVO13 - Freight Assignment Tracking Logistics

freight transportation status (CVO02):

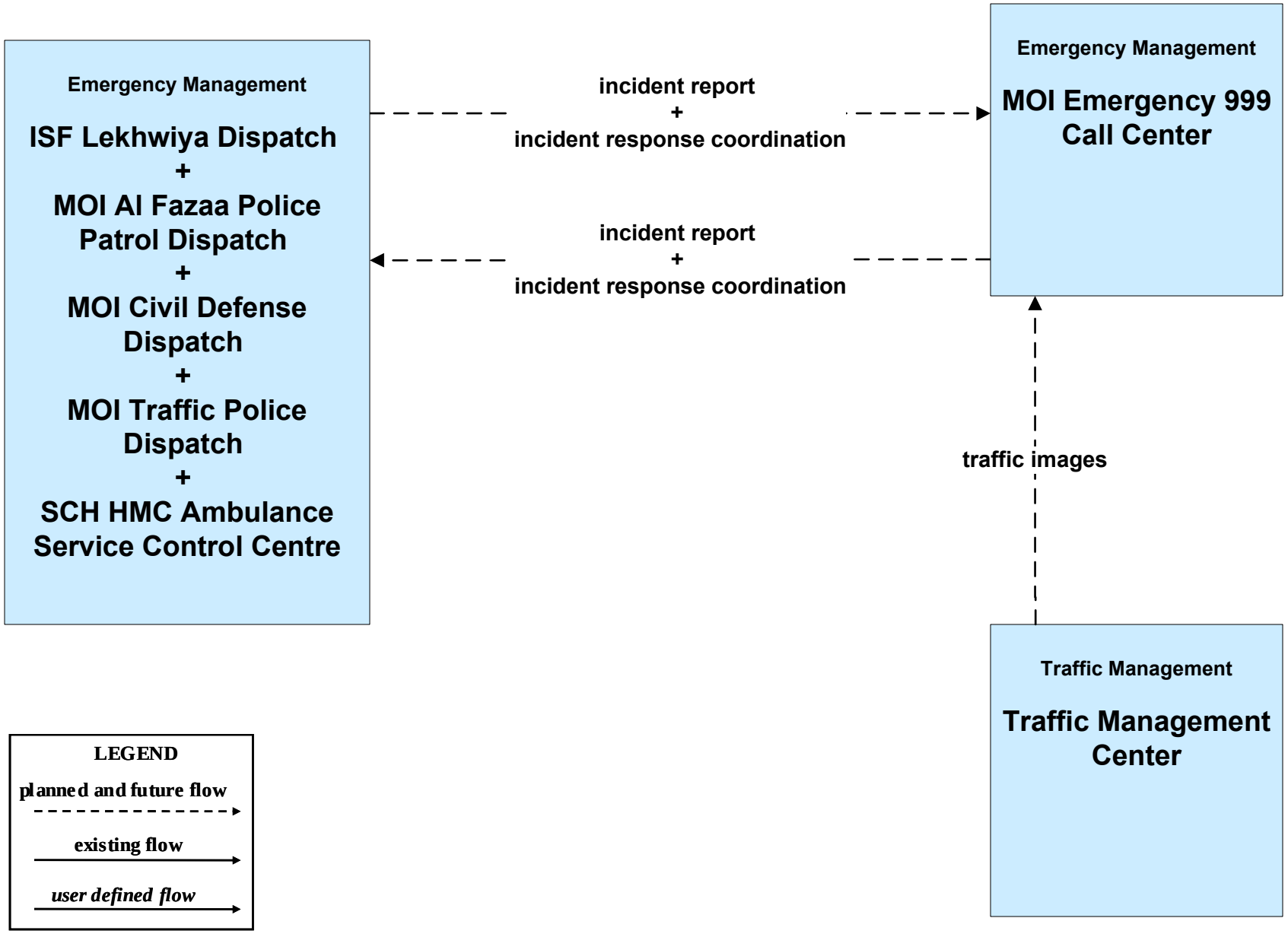
A time-stamped status of a freight shipment as it passes through the supply chain from manufacturer through arrival at its final destination; including cargo movement logs, routing information, and cargo ID's.

booking status (CVO13):

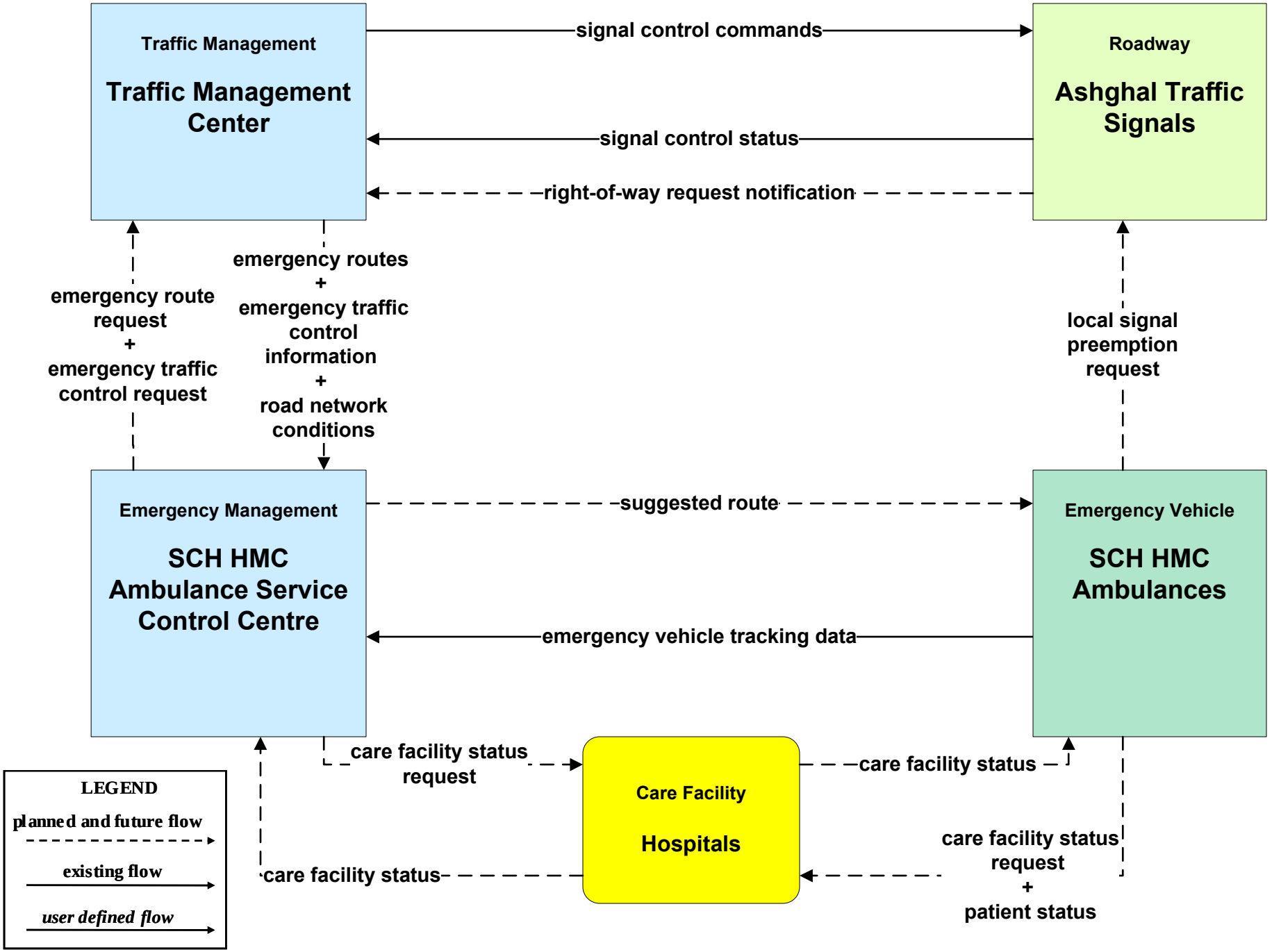
Status of the freight transport booking that includes the identities of the Commercial Vehicle and driver who will pick-up the freight or a request for more information from the originator.



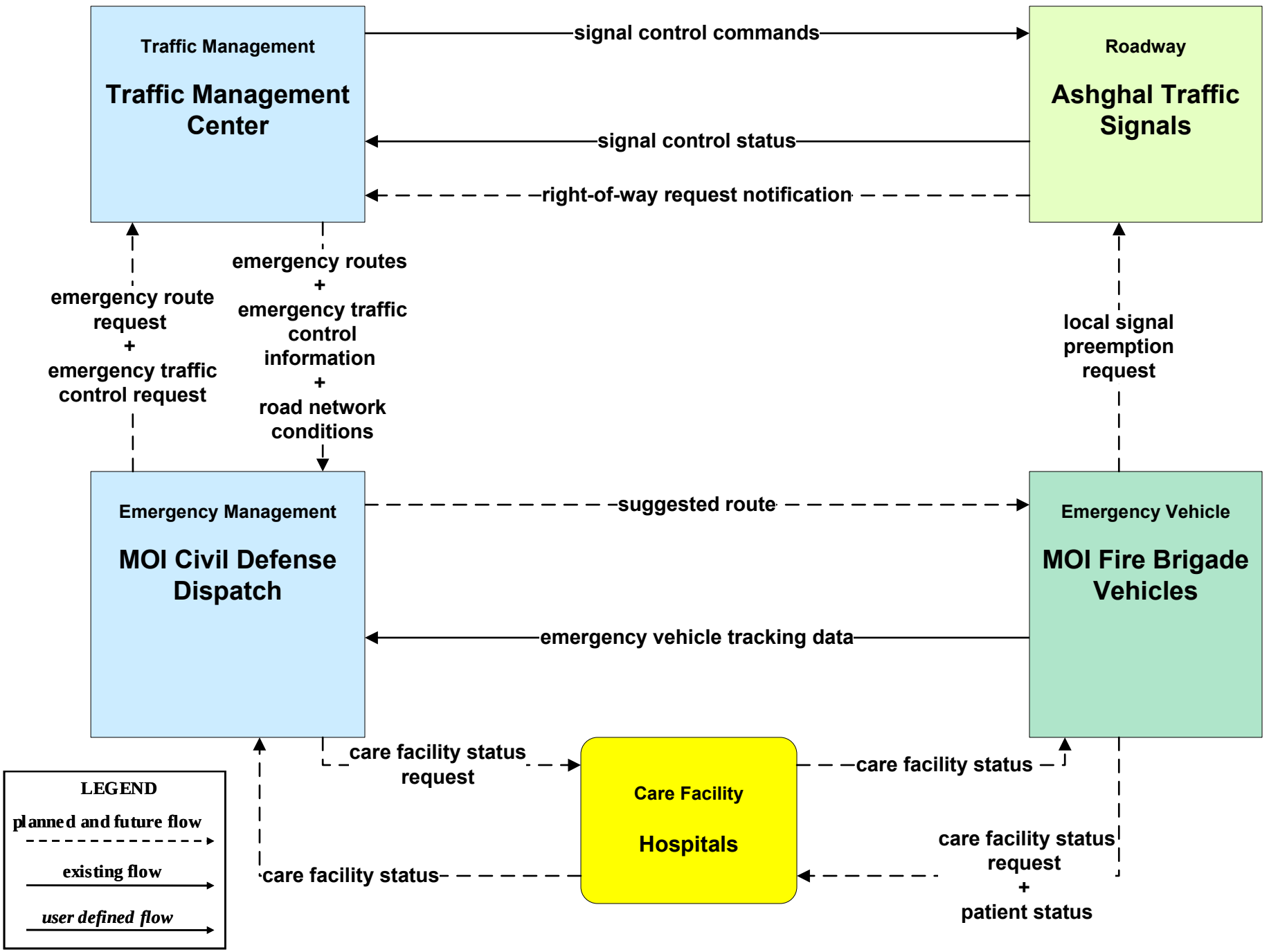
EM01 - Emergency Response Coordination
Emergency Call-Taking and Dispatch



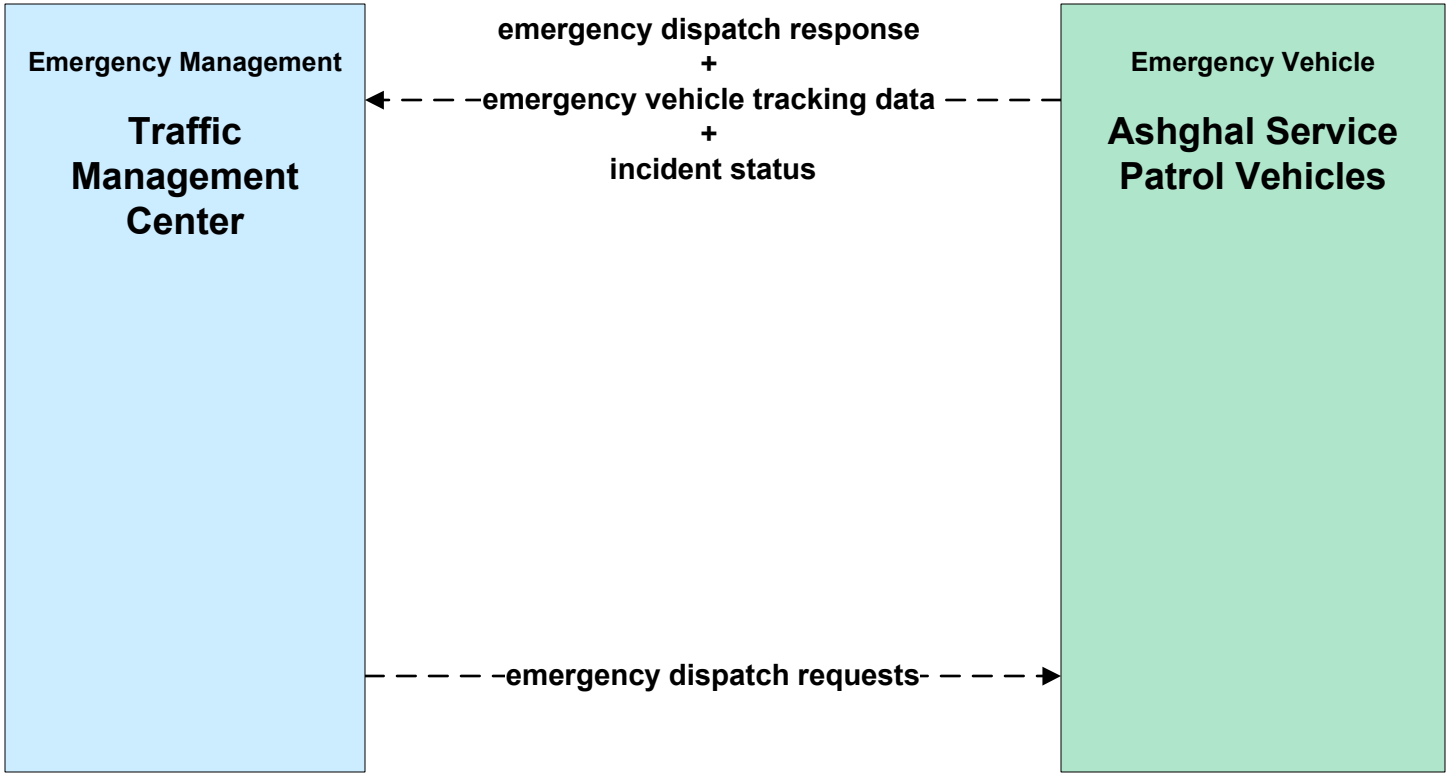
EM02 - Emergency Routing
Ambulance

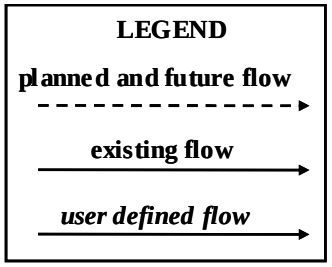


EM02 - Emergency Routing
MOI Fire Brigade

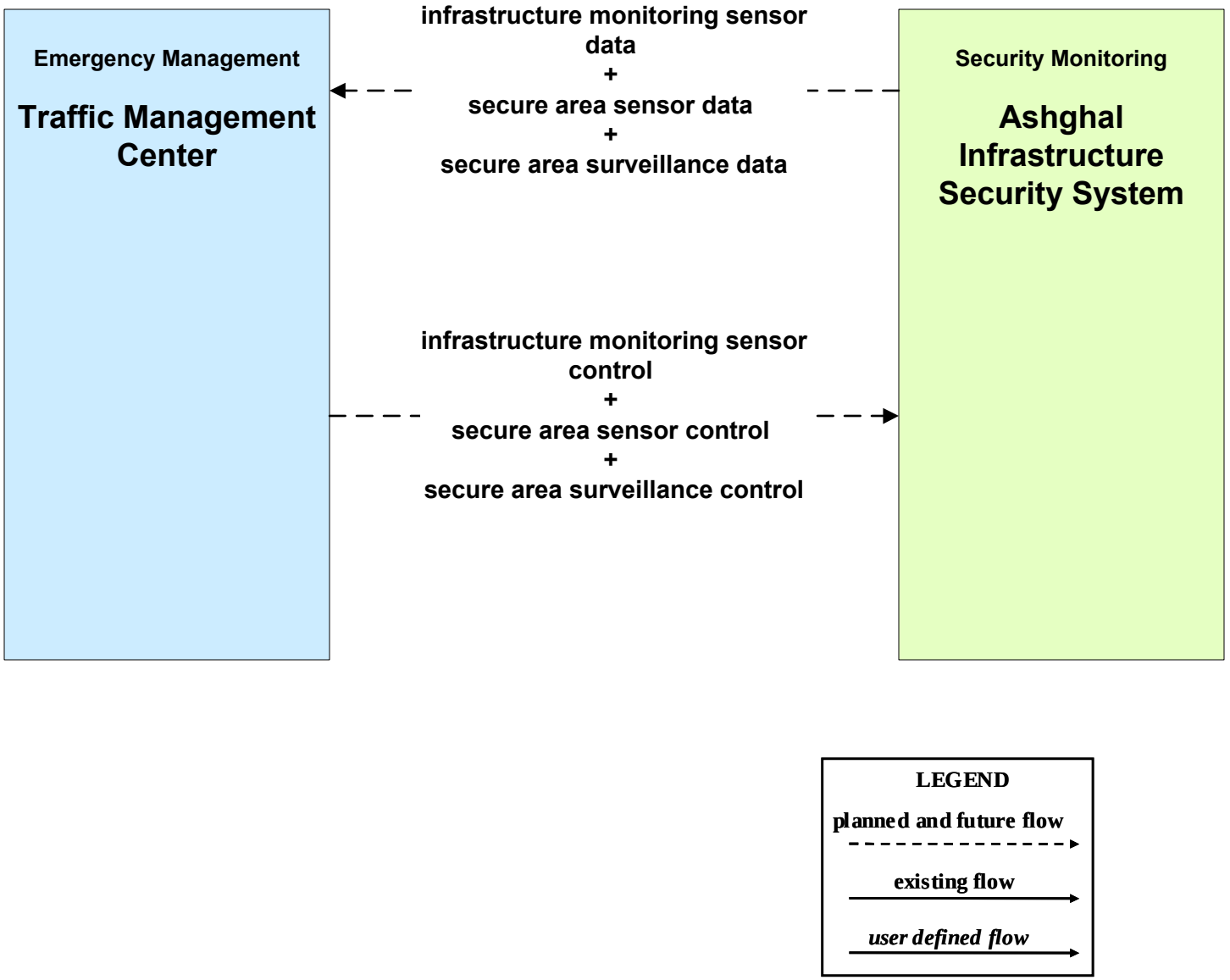


EM04 - Roadway Service Patrols

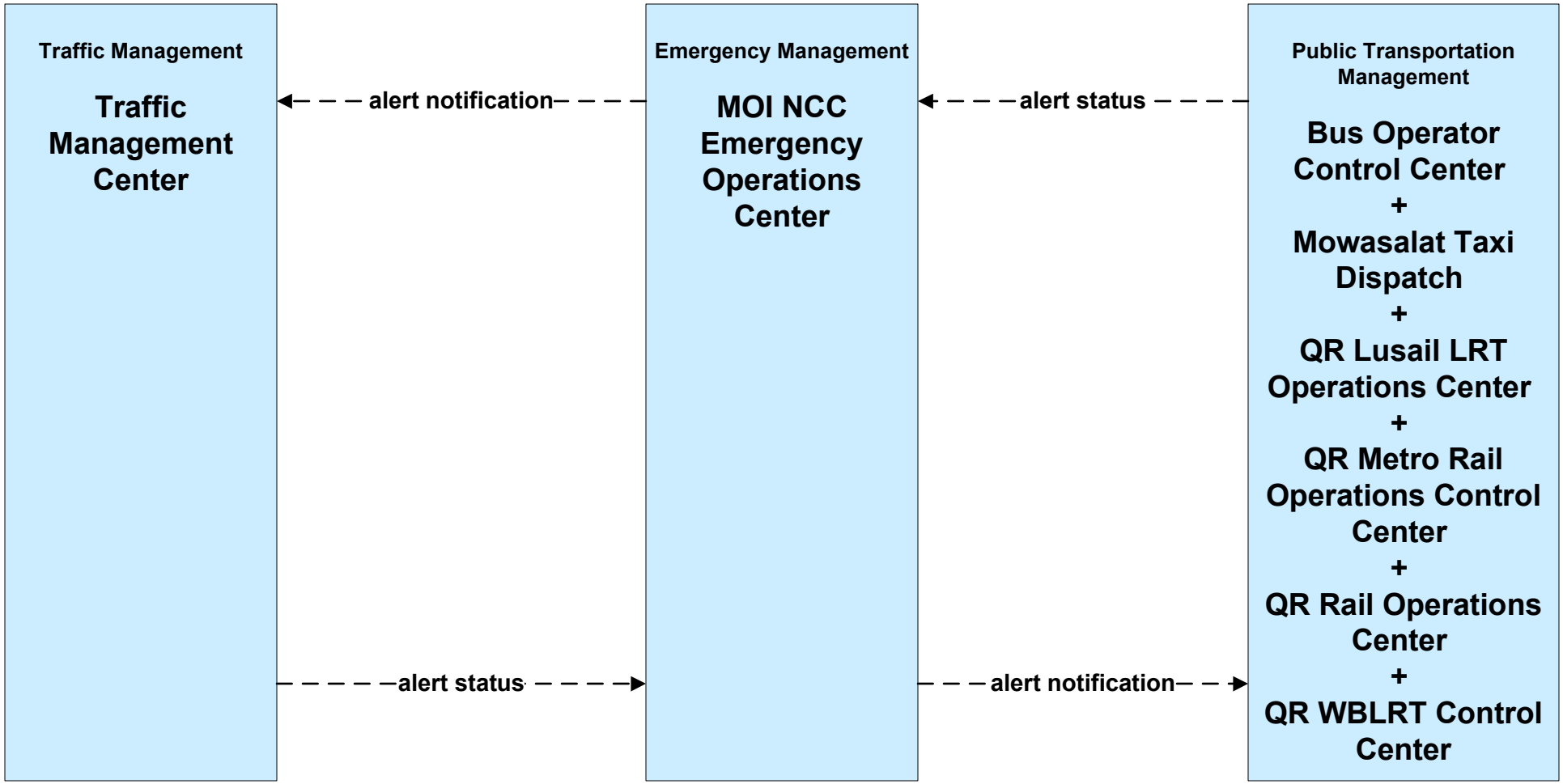




EM05 - Transportation Infrastructure Protection



EM06 - Wide Area Alerts



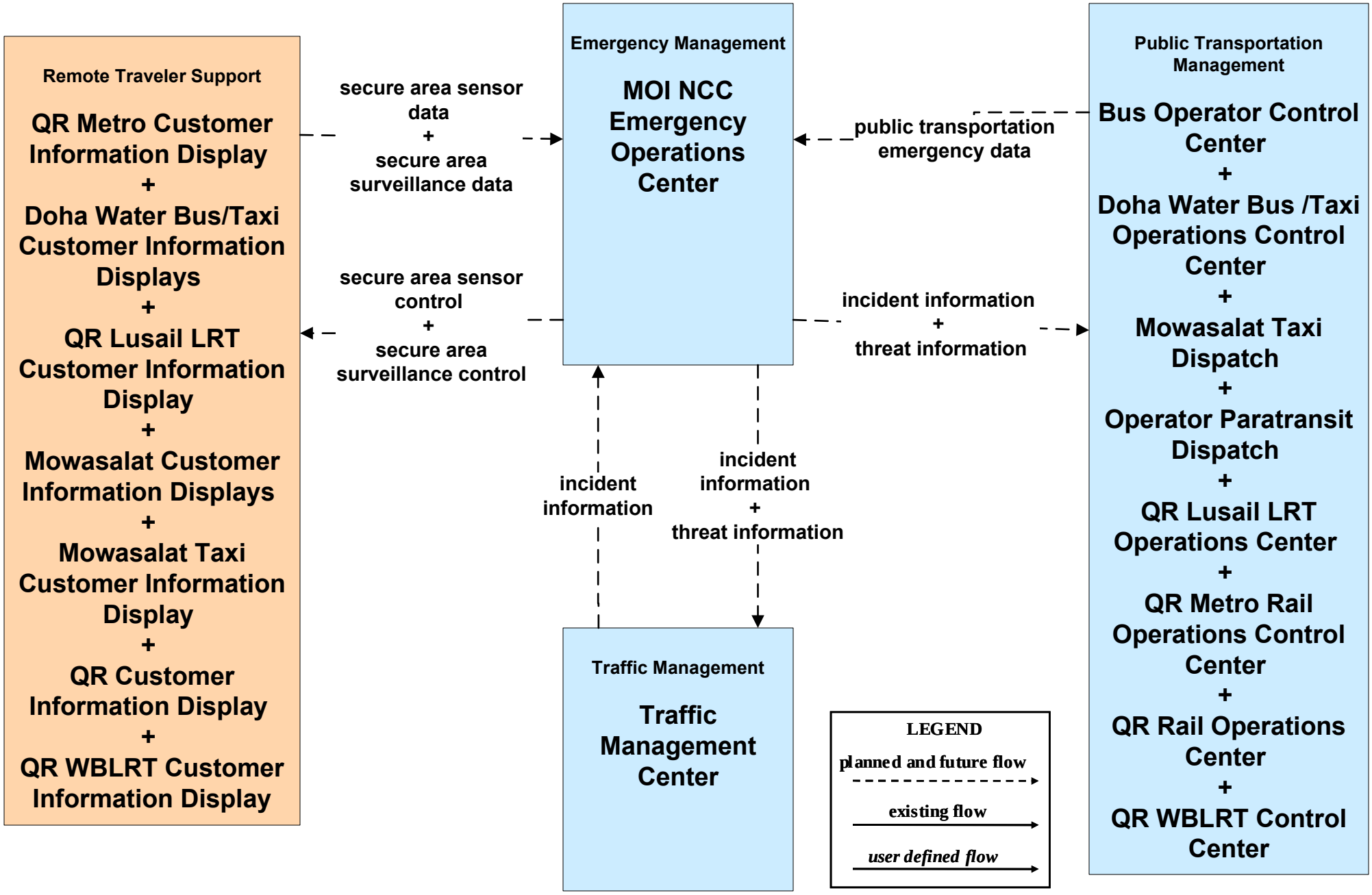
LEGEND

planned and future flow

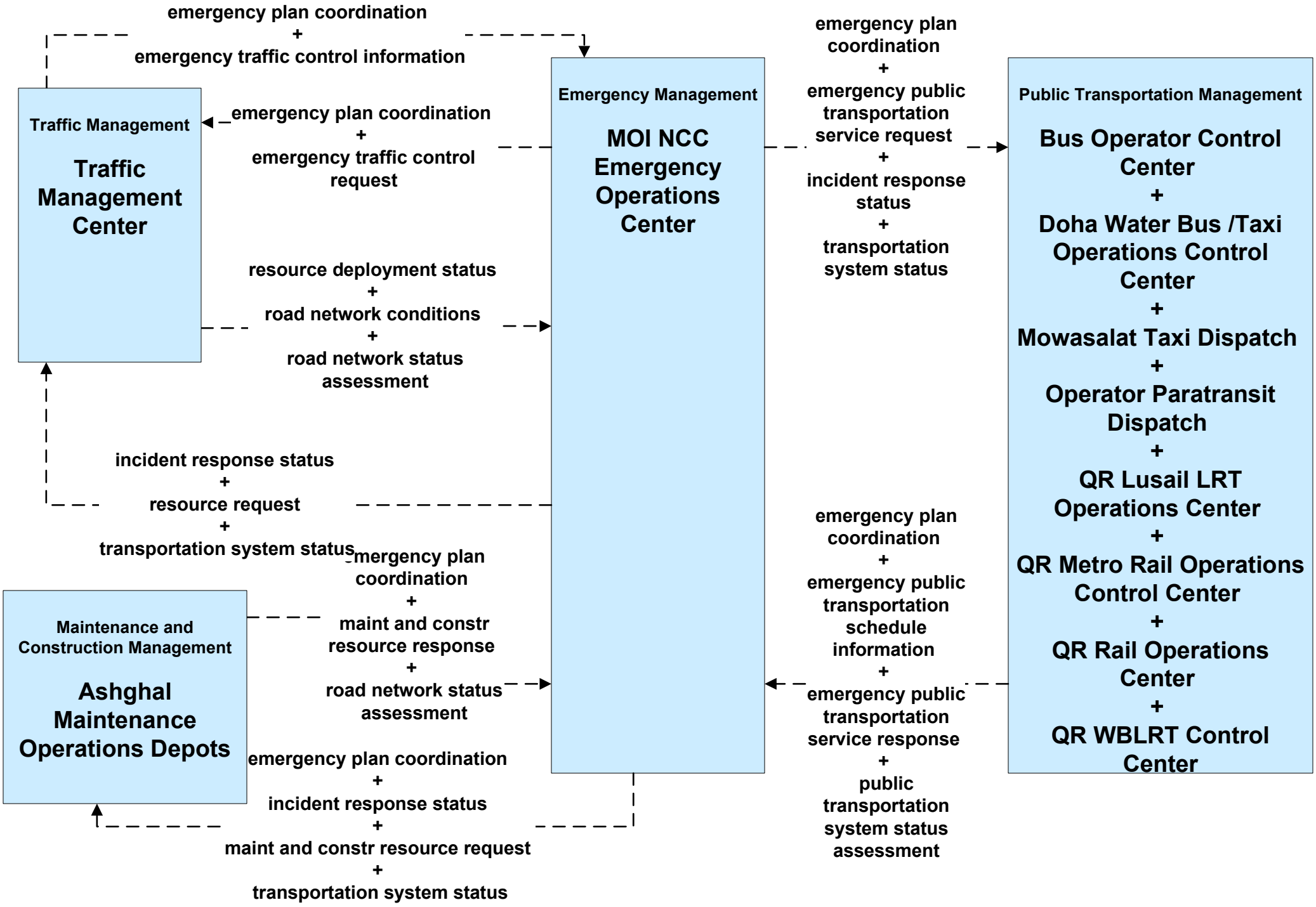
existing flow

user defined flow

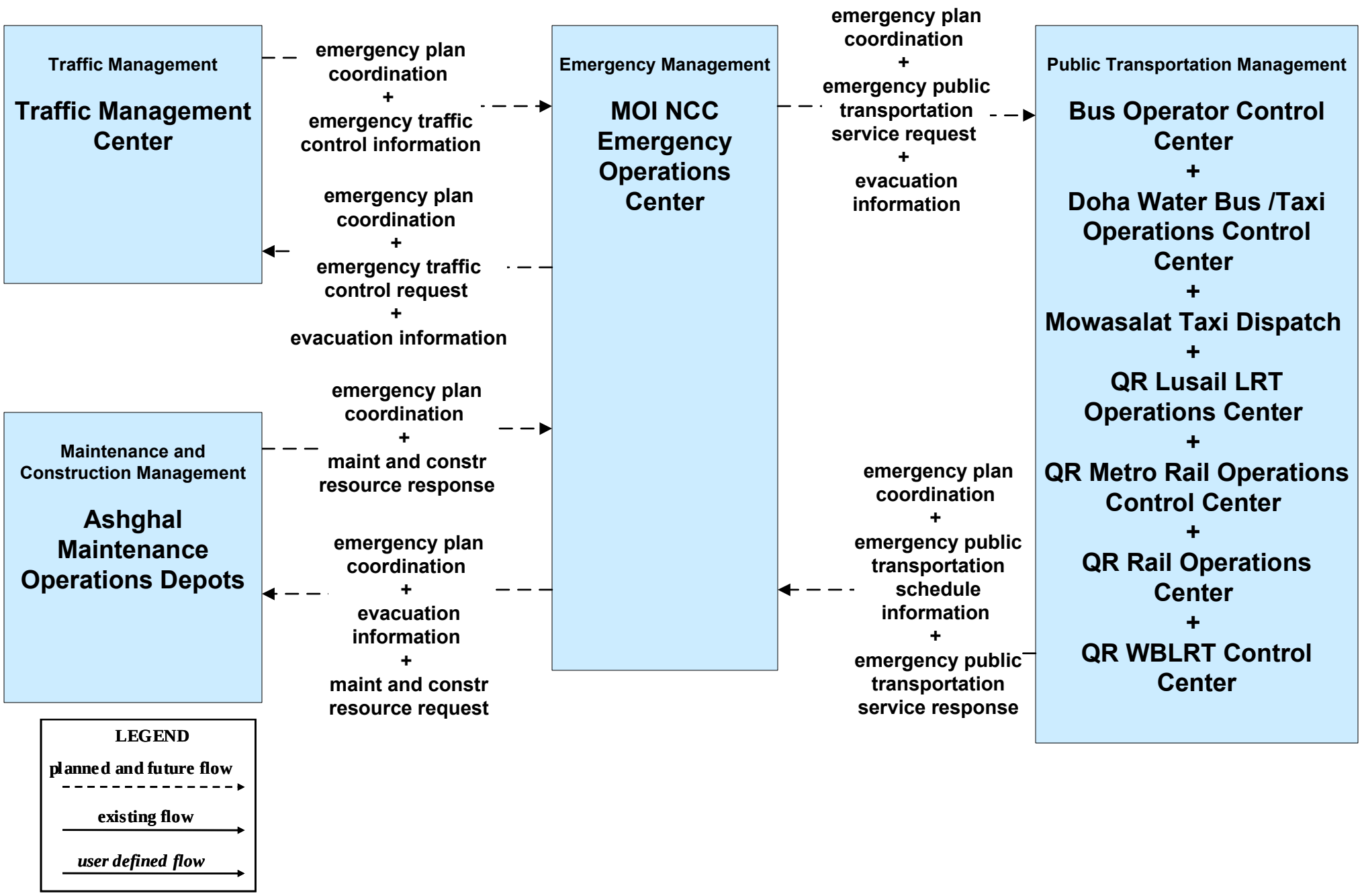
EM07 - Early Warning System



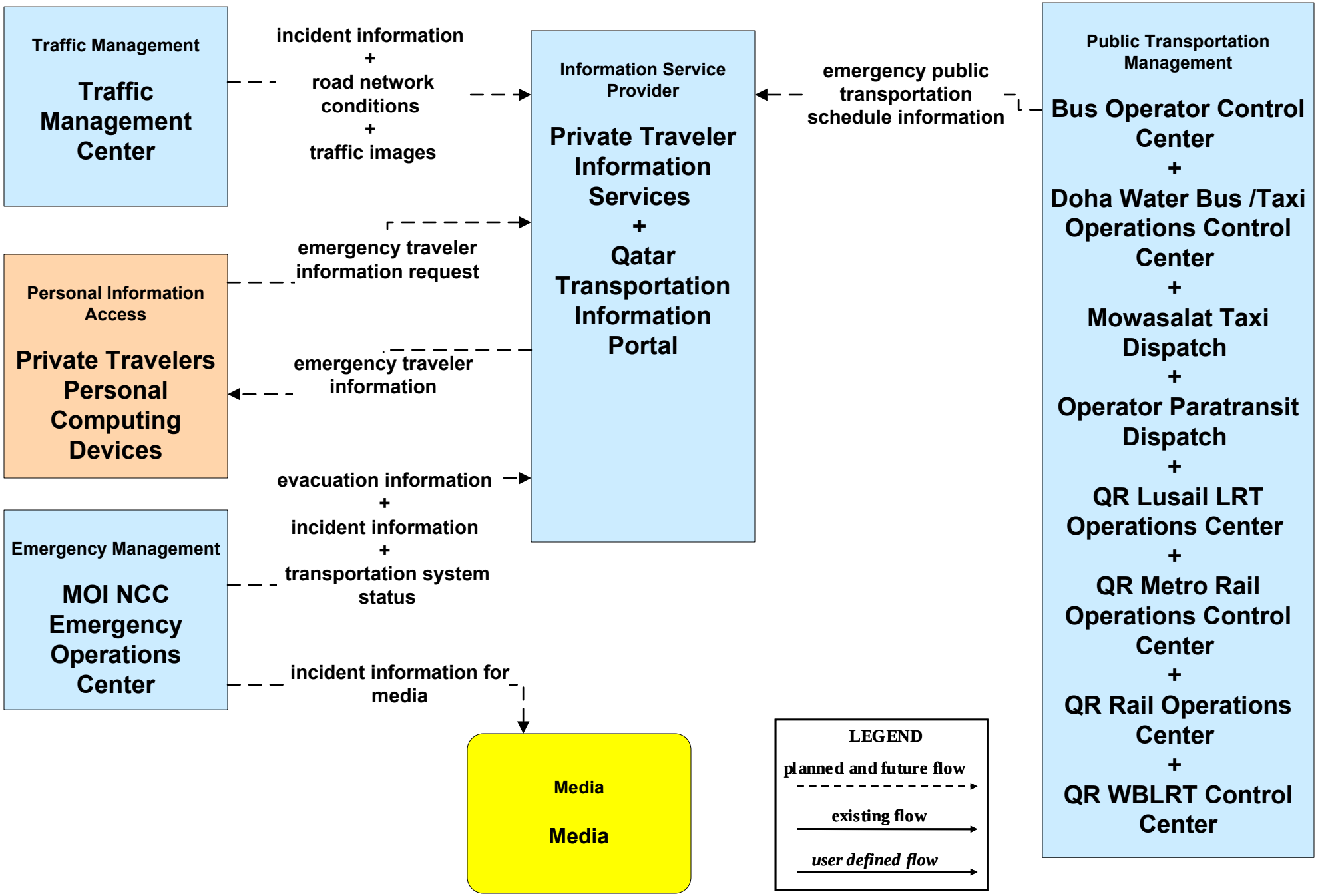
EM08 - Disaster Response



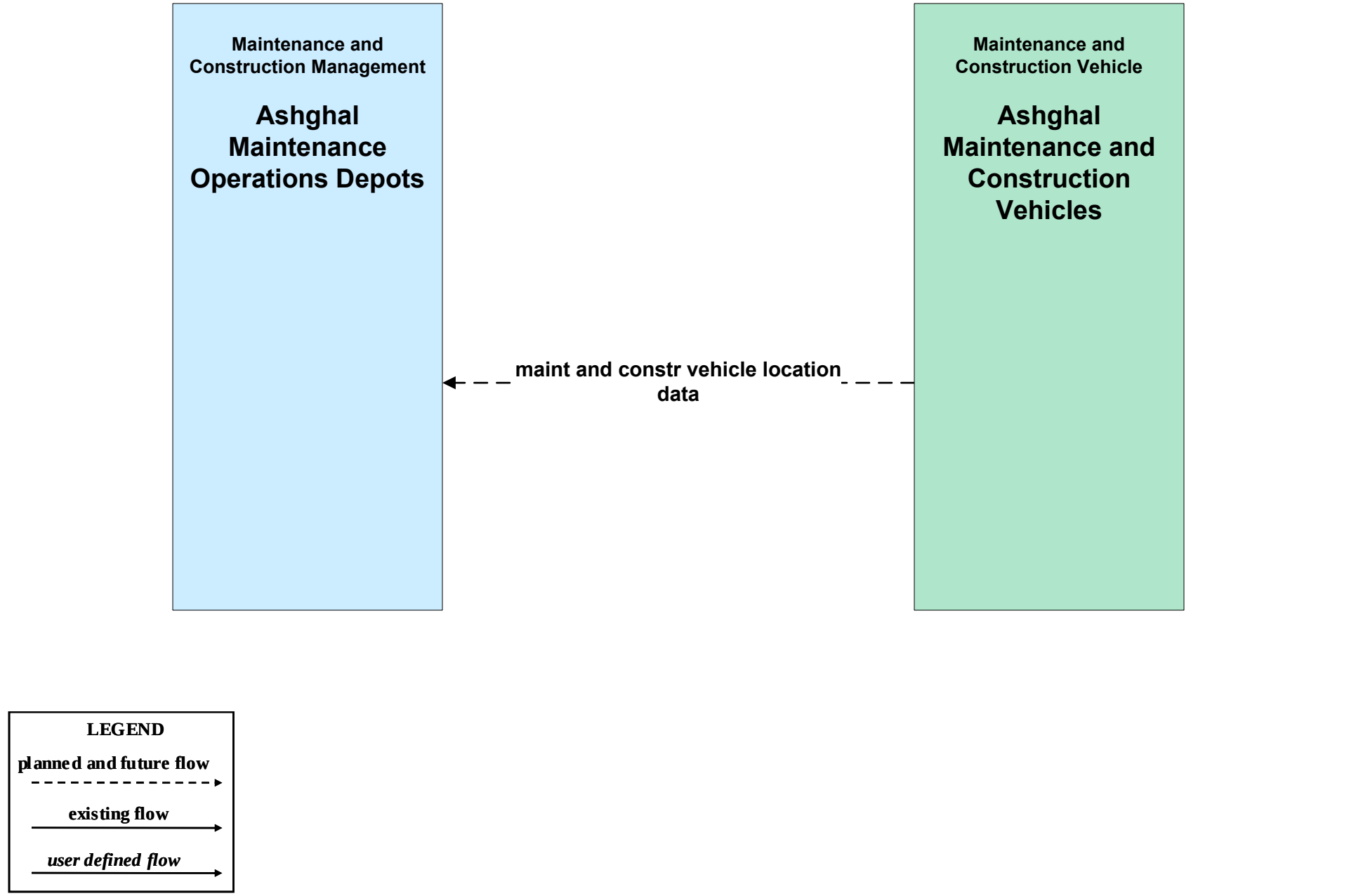
EM09 - Evacuation and Reentry Management



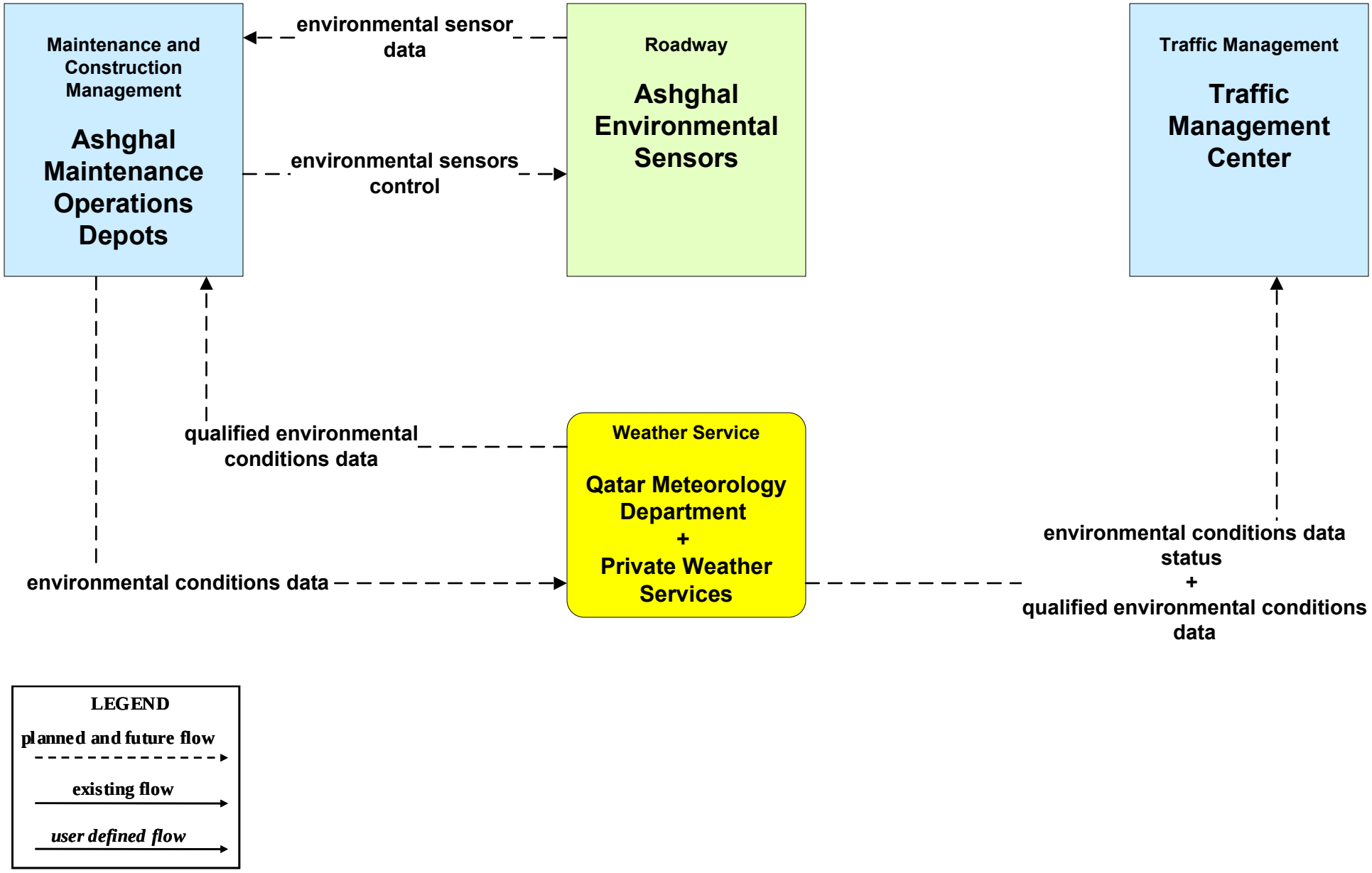
EM10 - Disaster Traveler Information



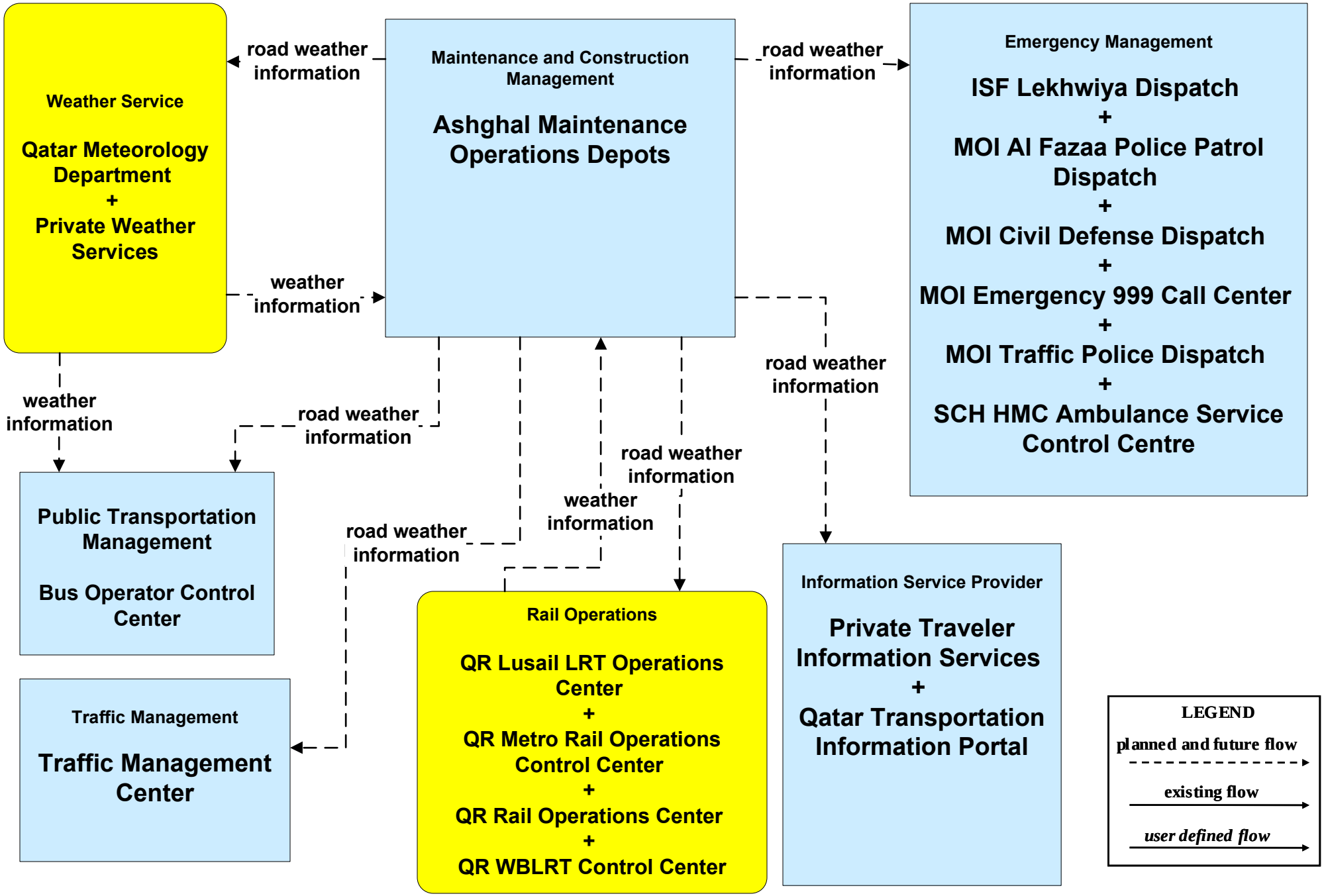
MC01 - Maintenance and Construction Vehicle Tracking



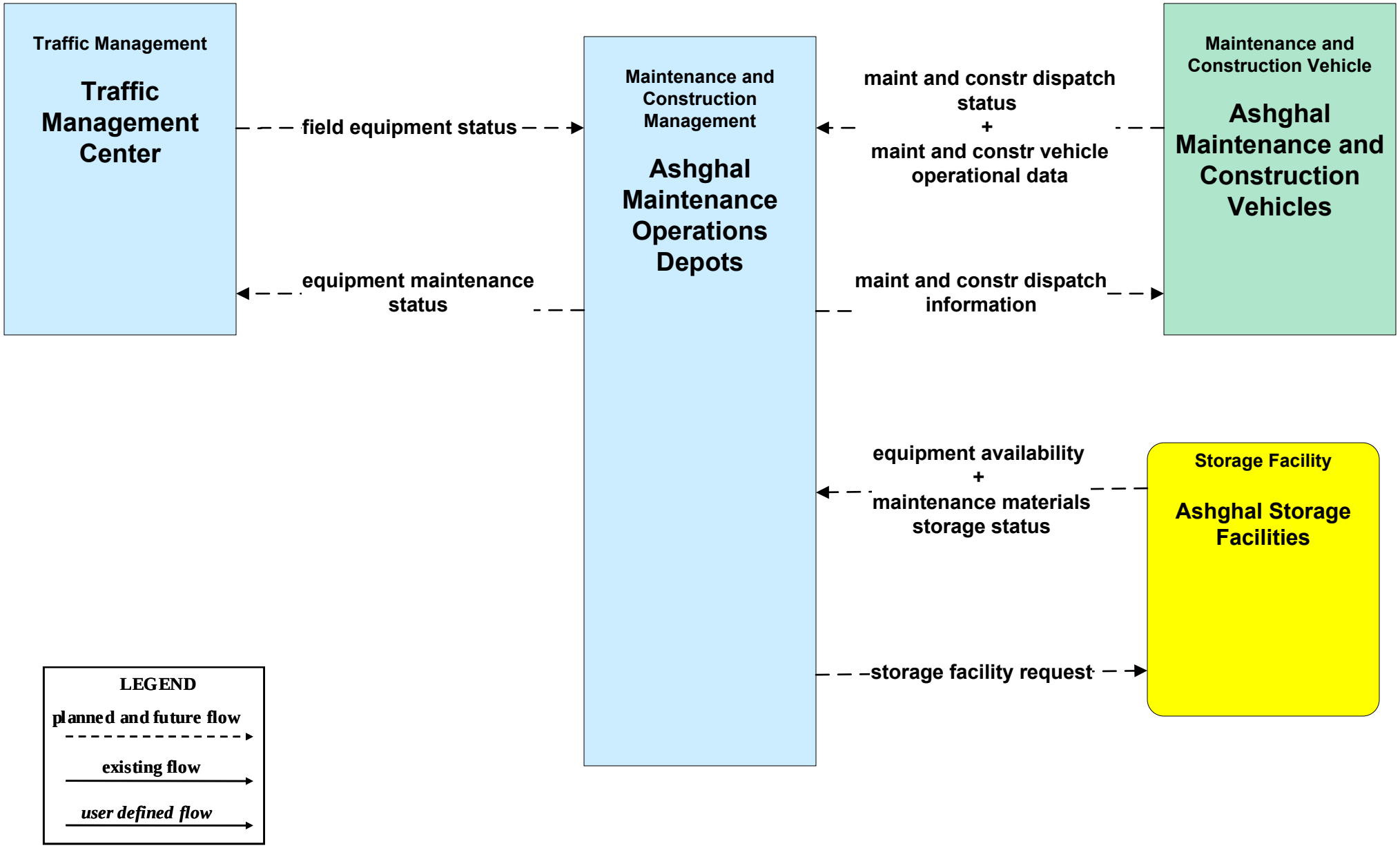
MC03 - Road Weather Data Collection



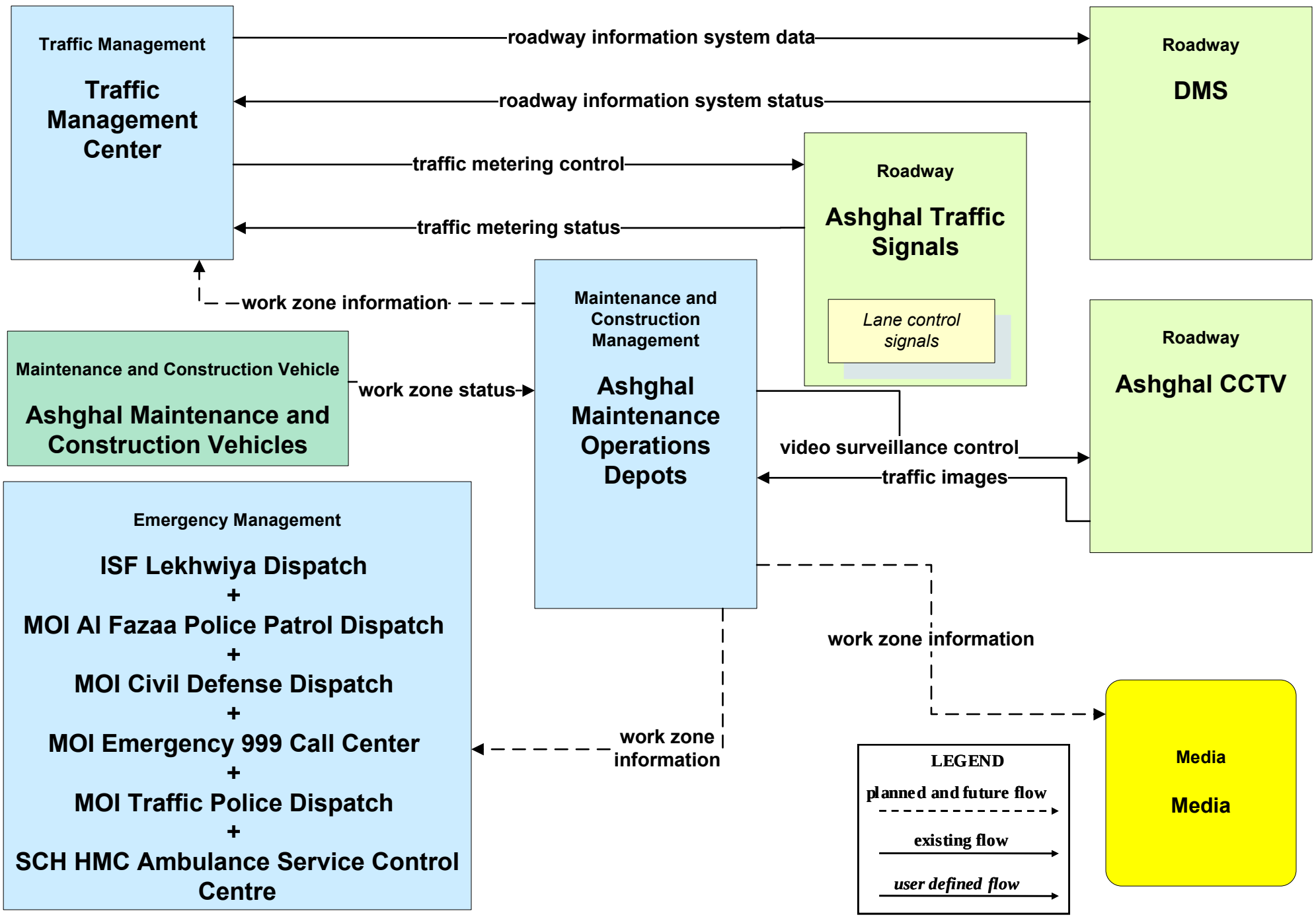
MC04 - Weather Information Processing and Distribution



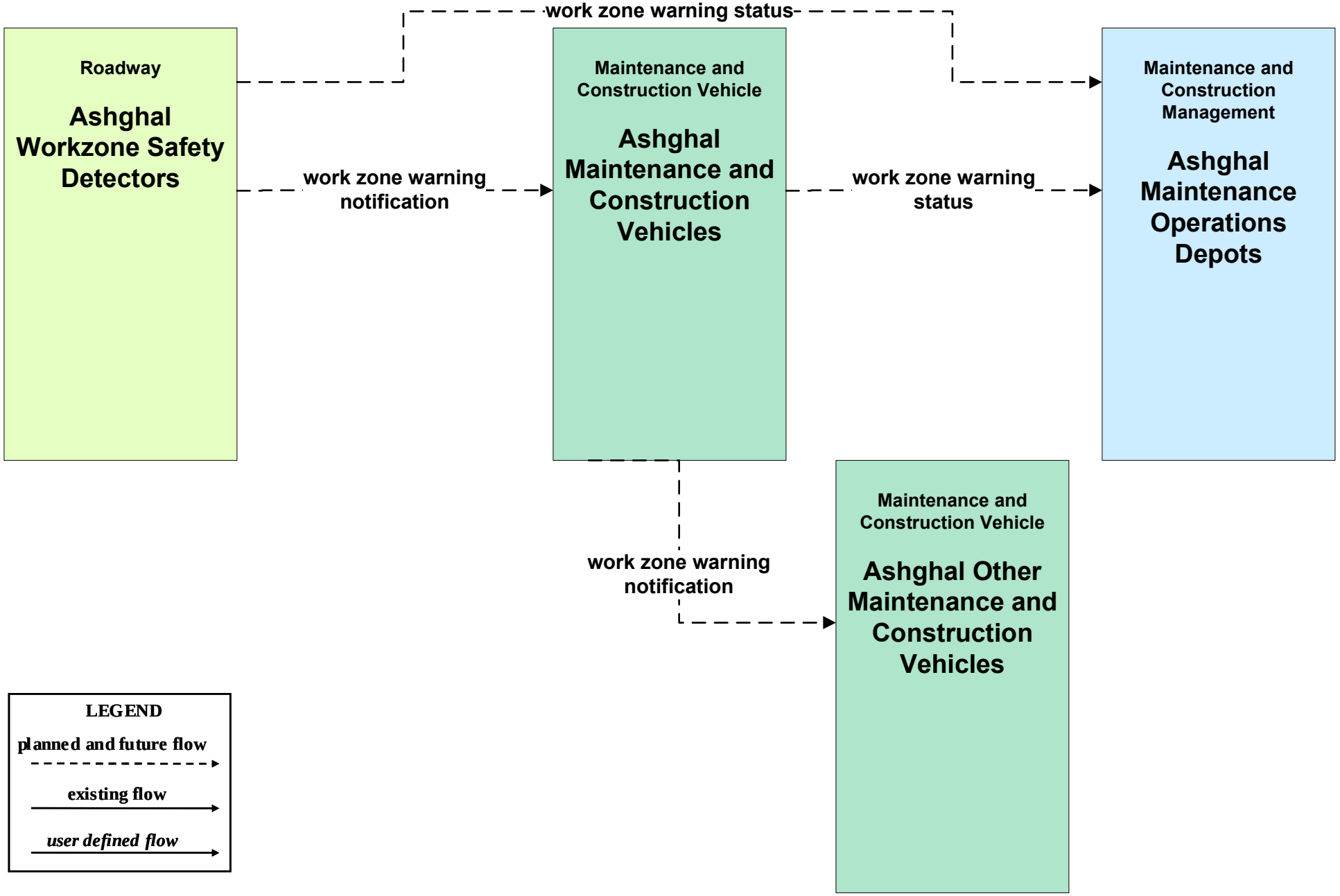
MC07 - Roadway Maintenance and Construction
Ashghal



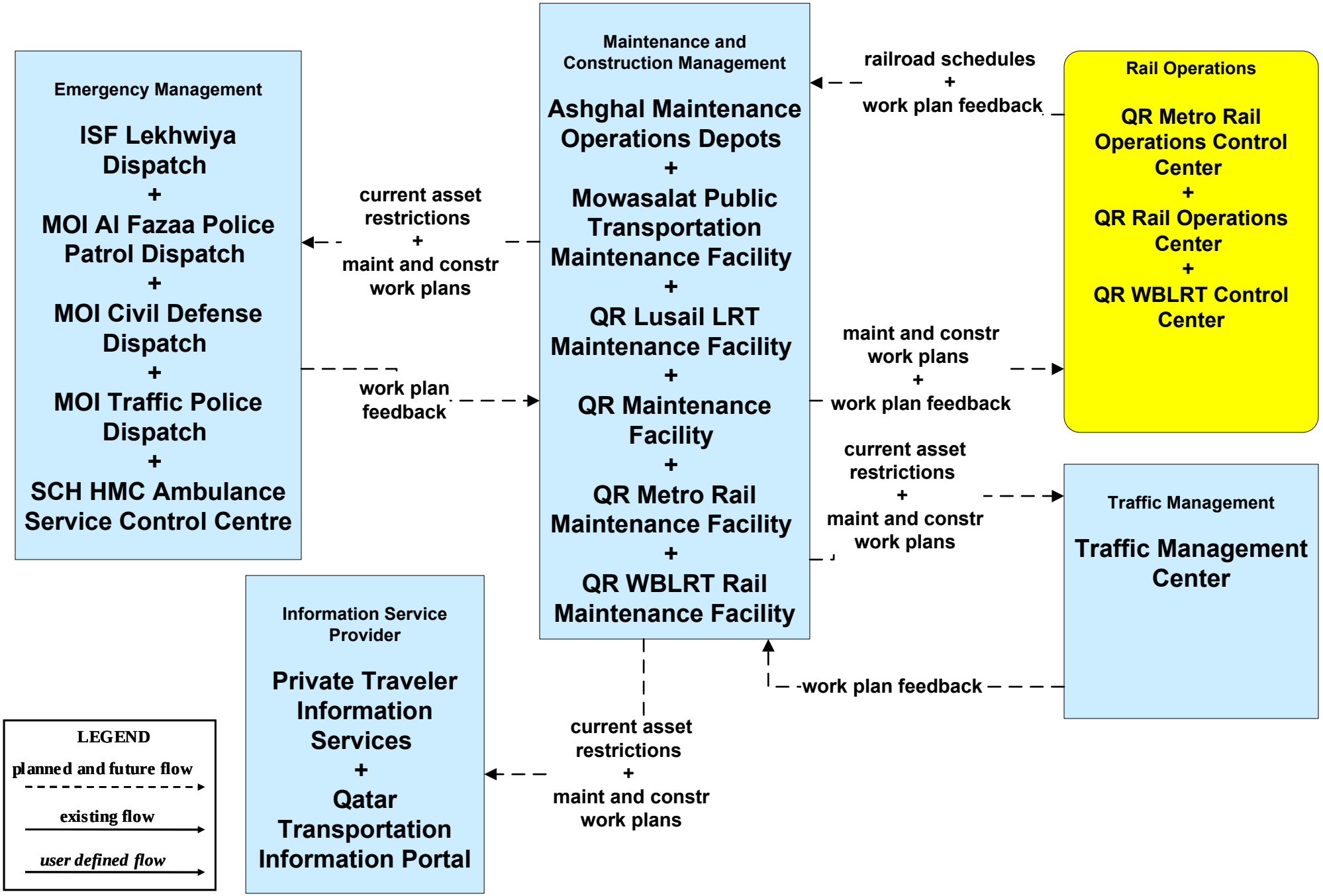
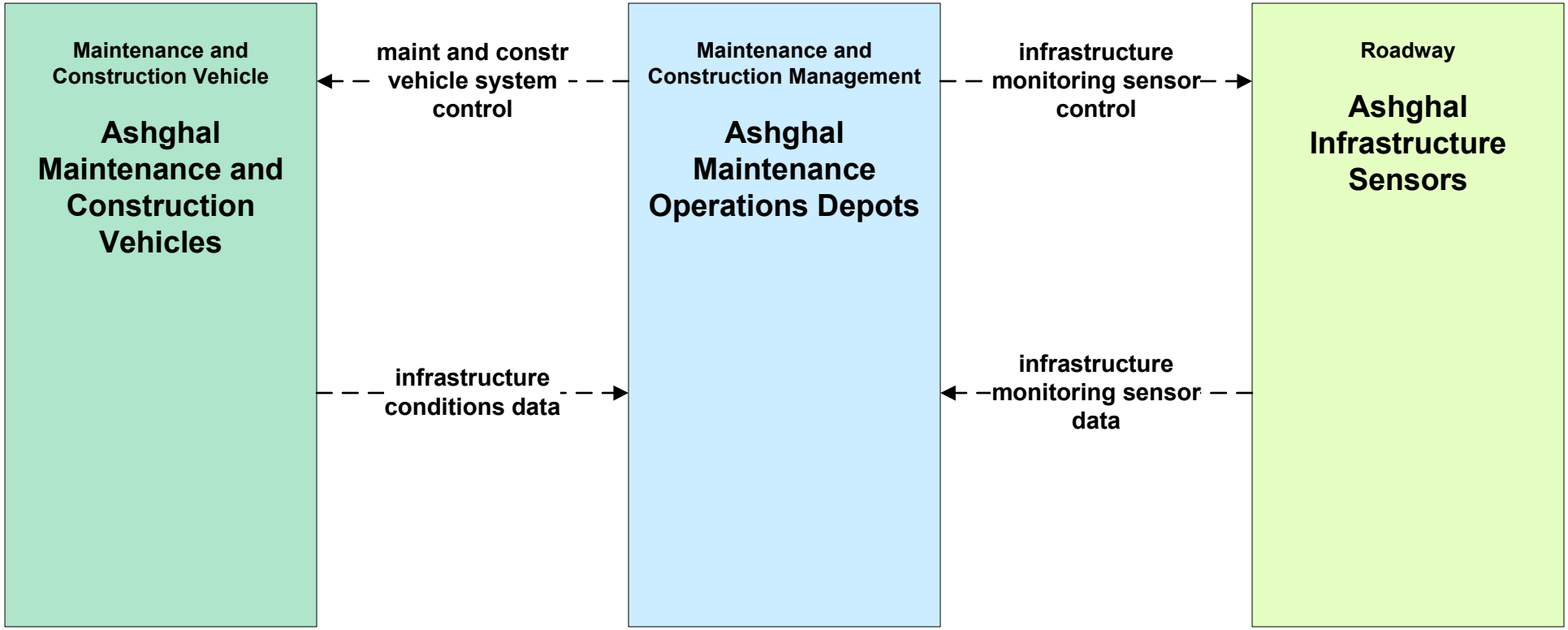
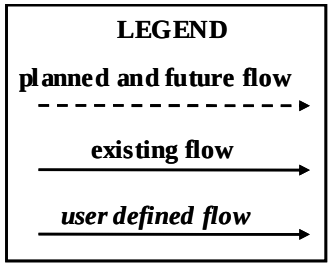
MC08 - Work Zone Management



MC09 - Workzone Safety Monitoring
Ashghal



MC10 - Maintenance and Construction Activity Coordination Restrictions, Work Plans and Feedback



MC12 – Infrastructure Monitoring
Ashghal