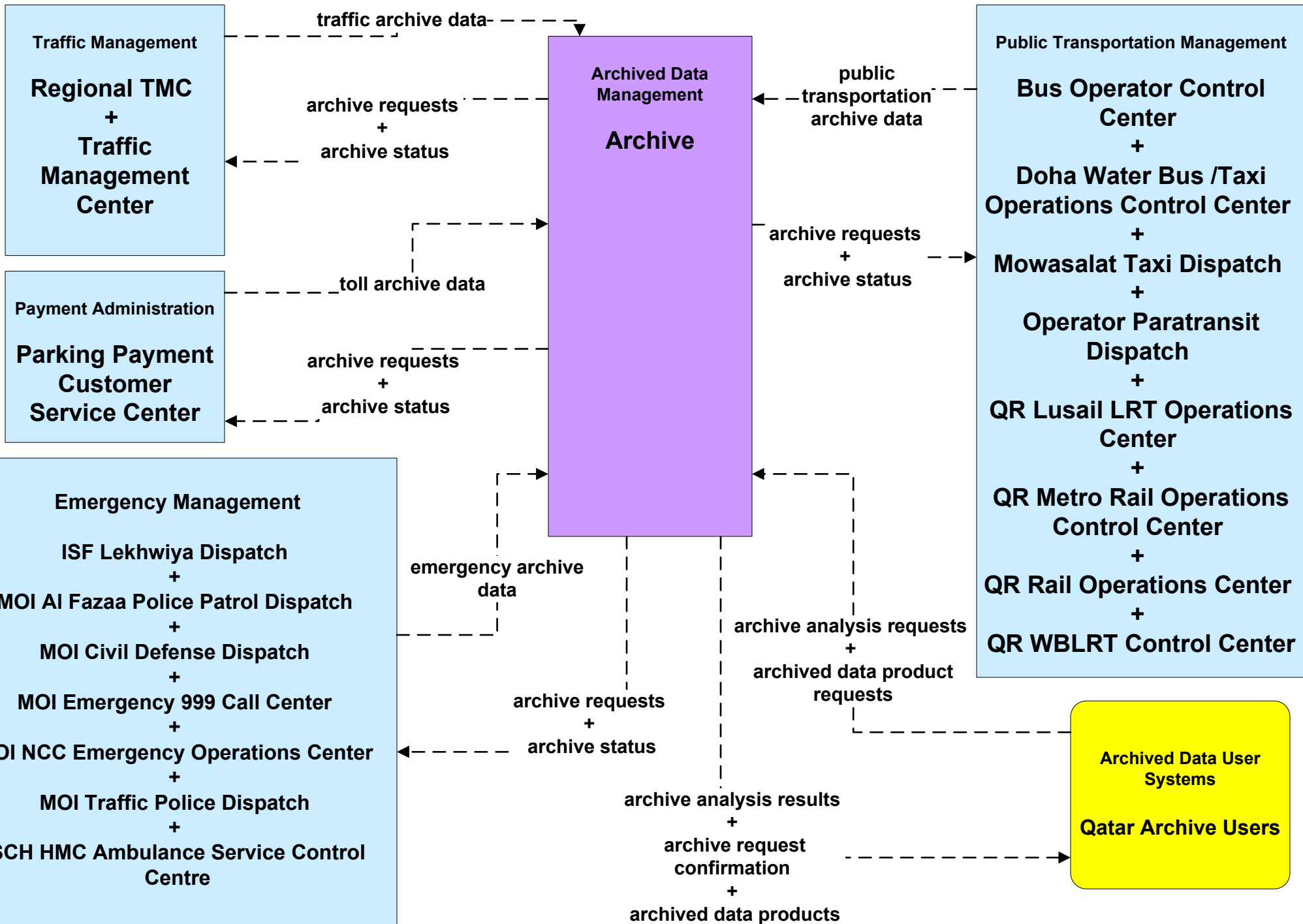
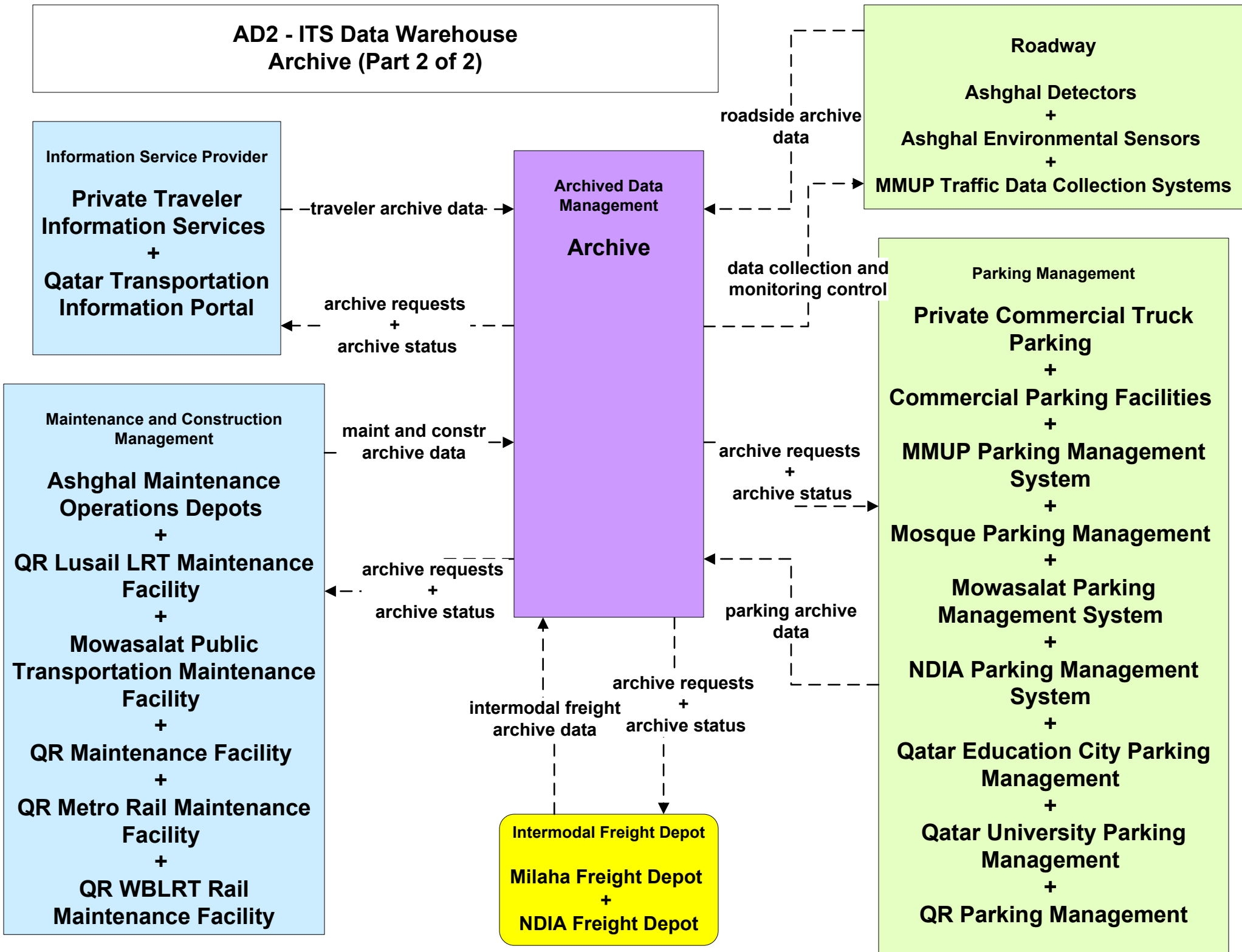
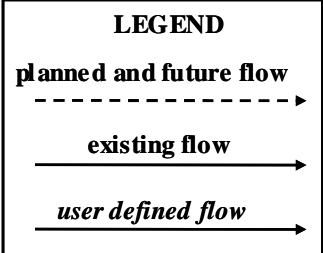
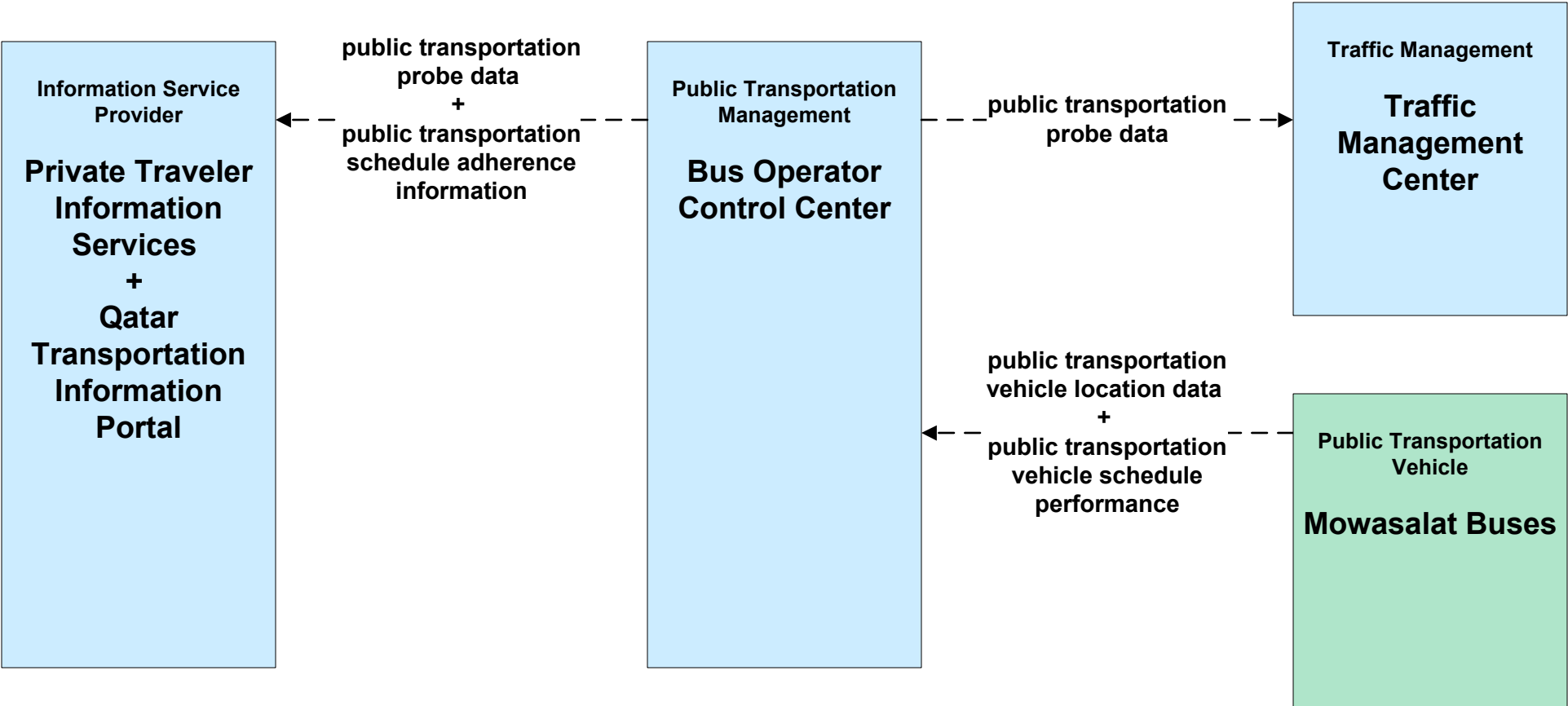


**AD2 - ITS Data Warehouse
Archive (Part 1 of 2)**

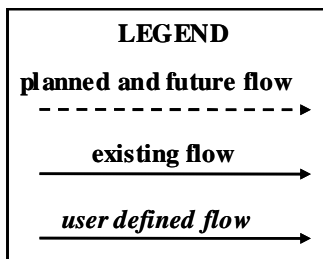
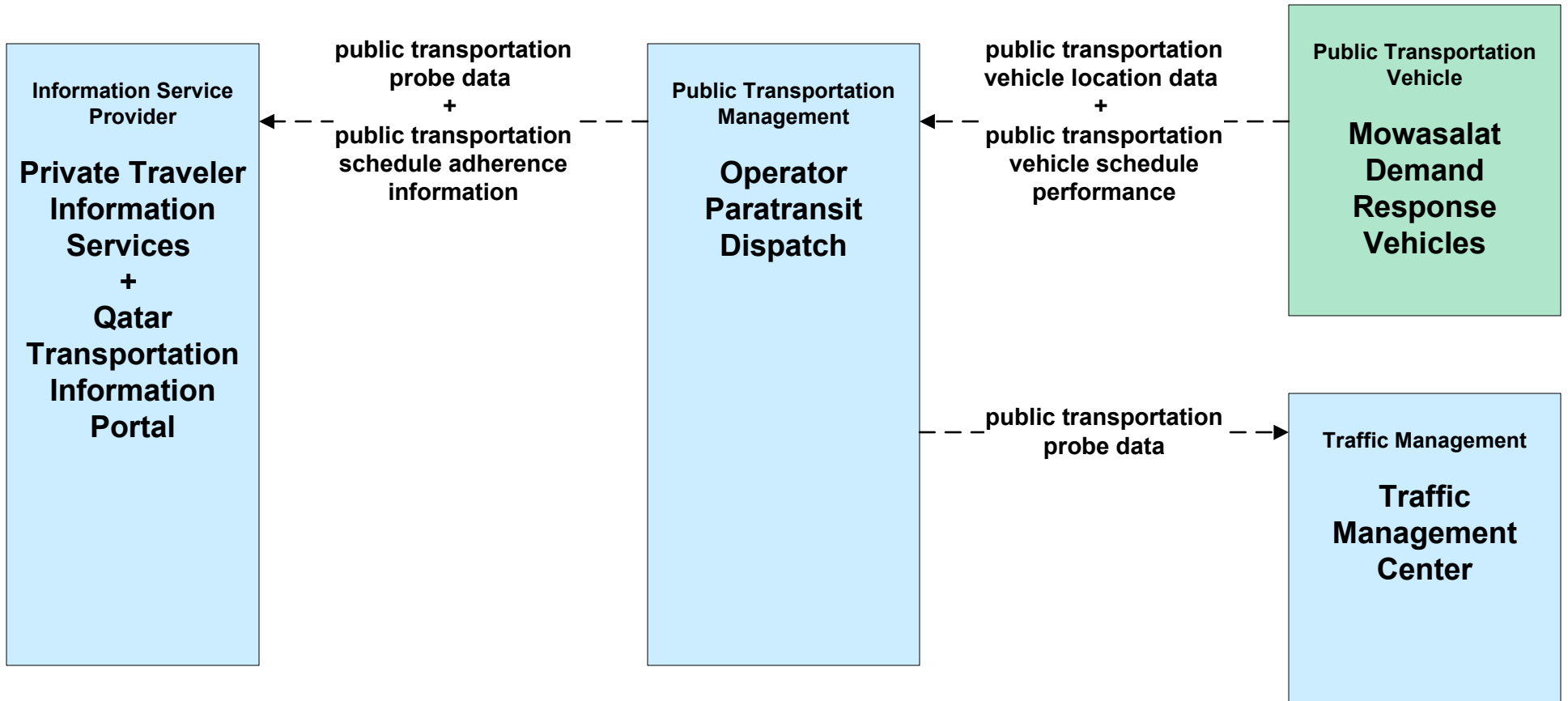




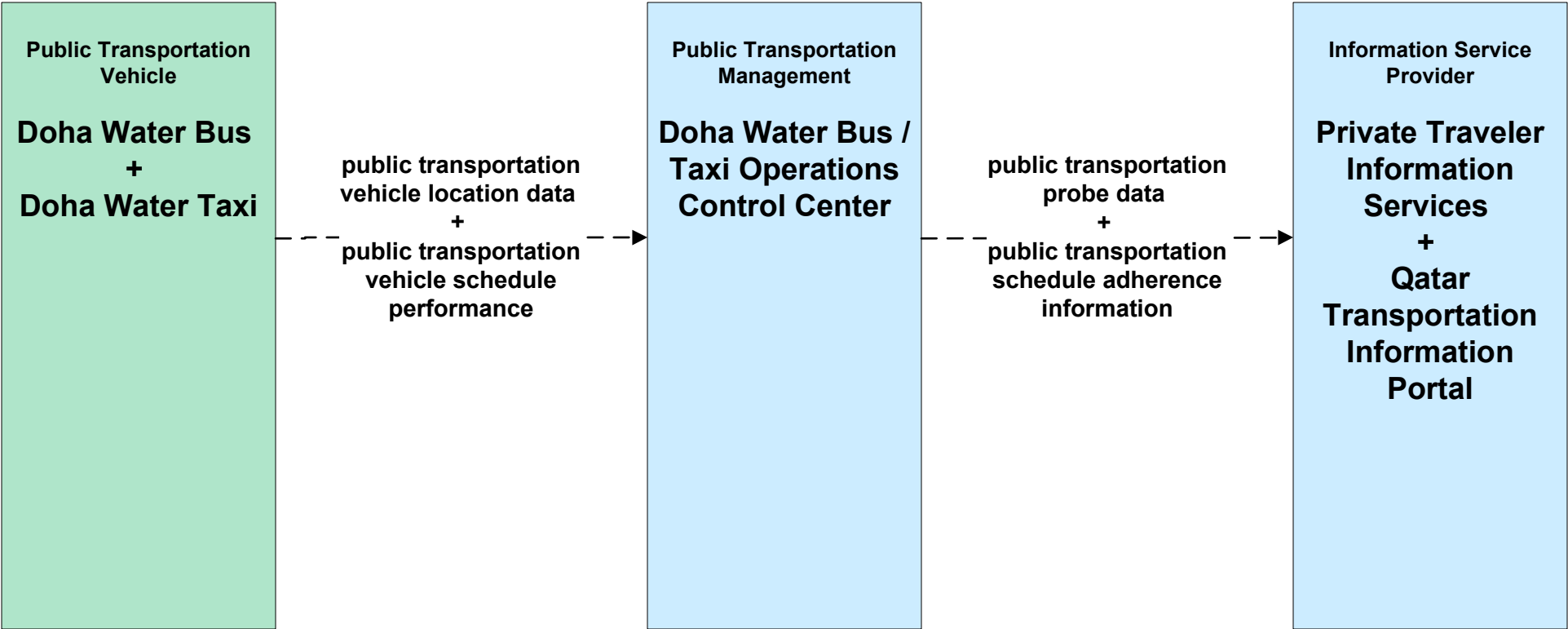
**APTS01 - Public Transportation Vehicle Tracking
Mowasalat Buses**



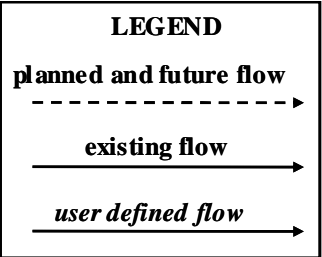
APTS01 - Public Transportation Vehicle Tracking Mowasalat Paratransit



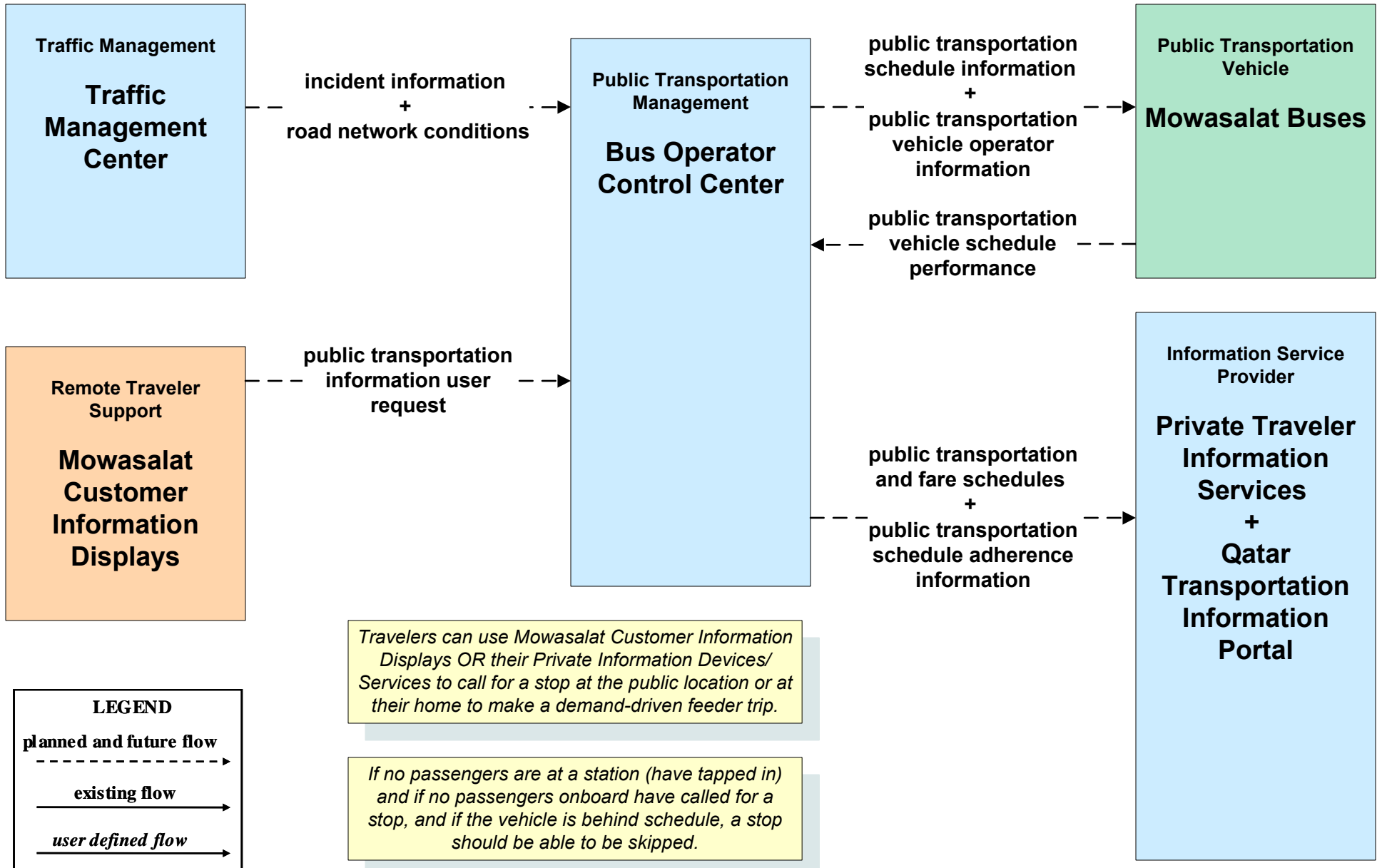
**APTS01 - Public Transportation Vehicle Tracking
Doha Bay Water Bus and Taxi**



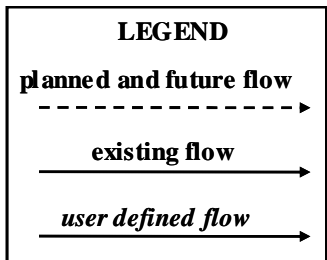
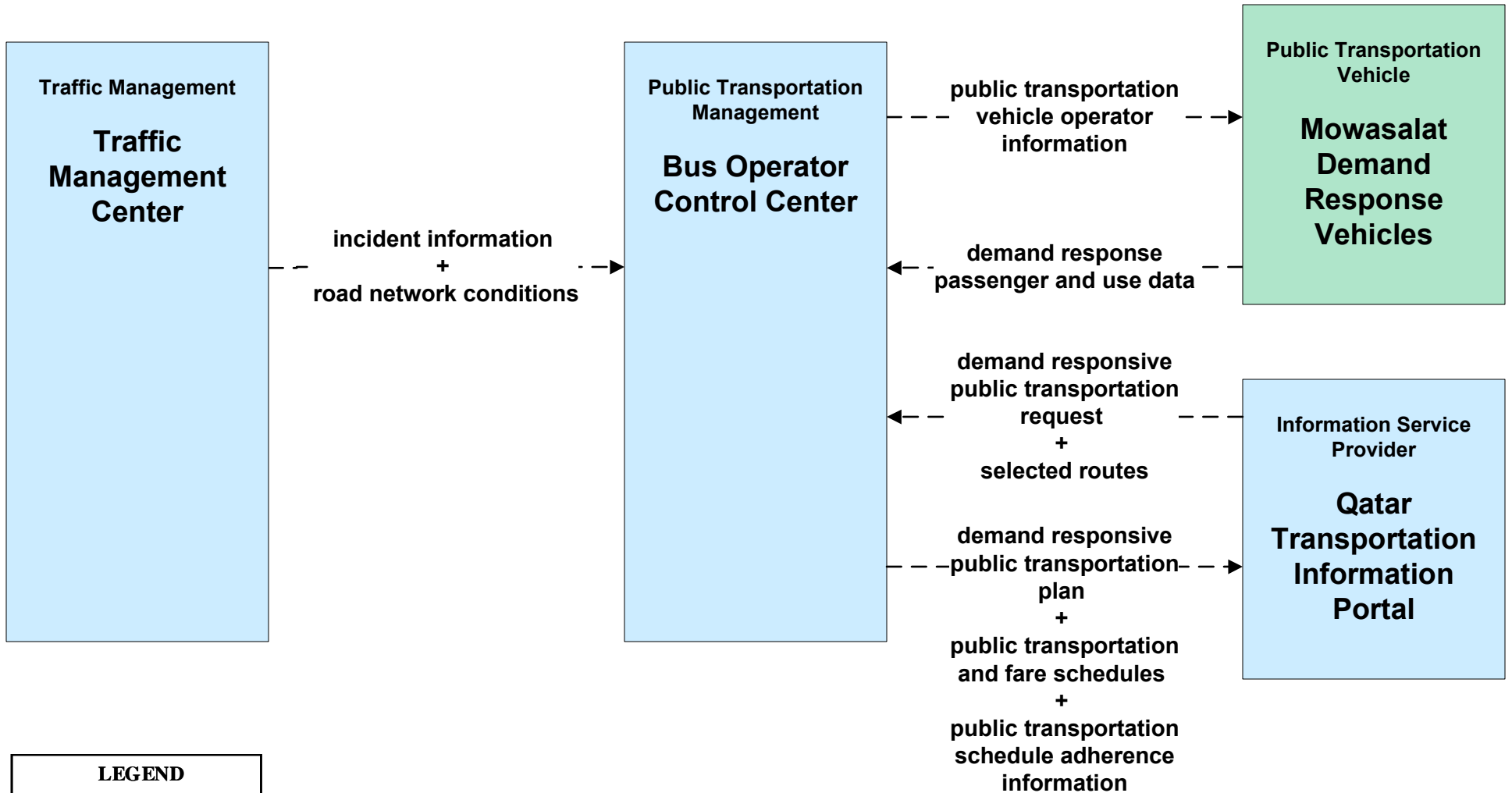
If no passengers are at a station (have tapped in) and if no passengers onboard have called for a stop, and if the vehicle is behind schedule, a stop should be able to be skipped.



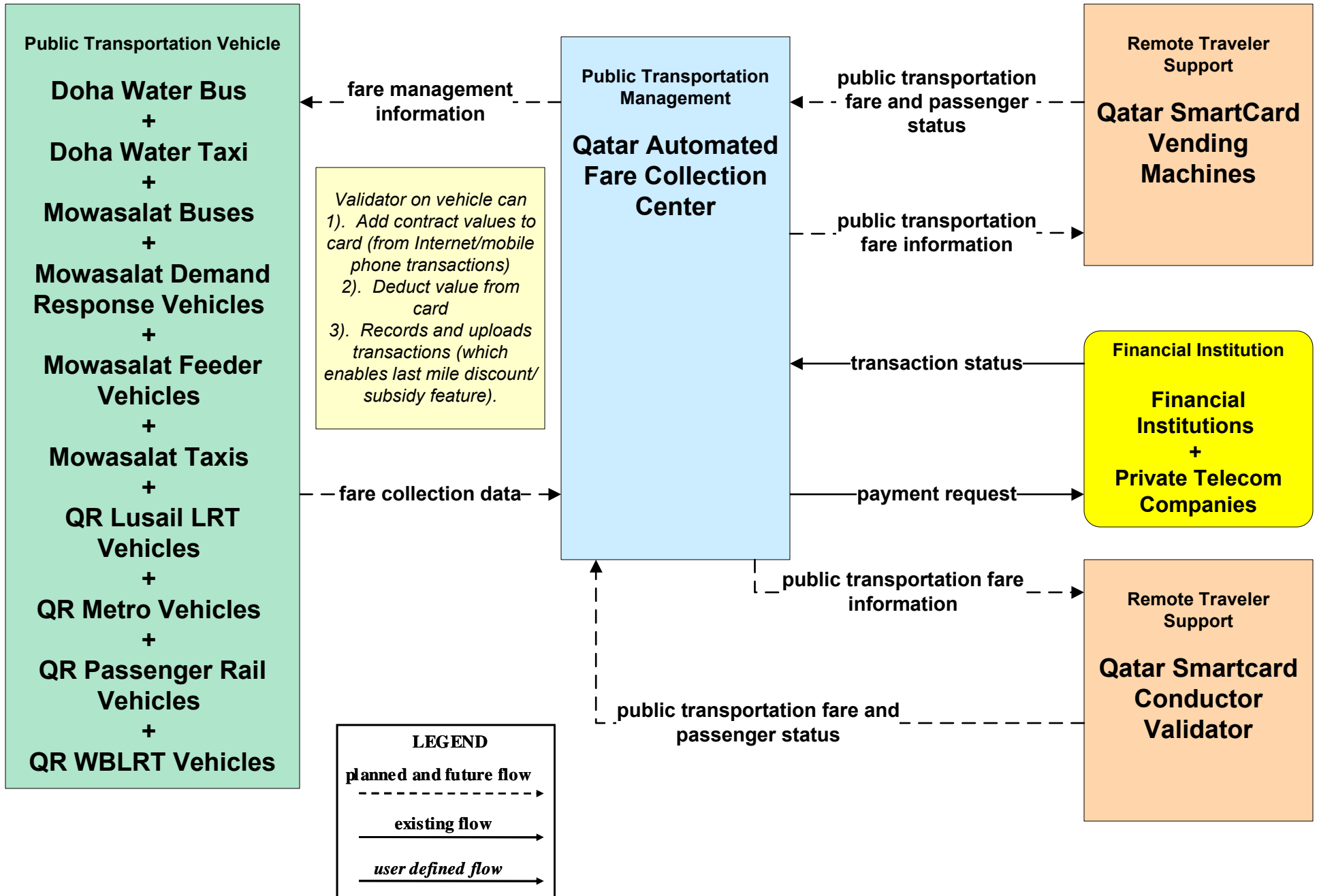
APTS02 - Public Transportation Fixed-Route Operations Mowasalat Bus



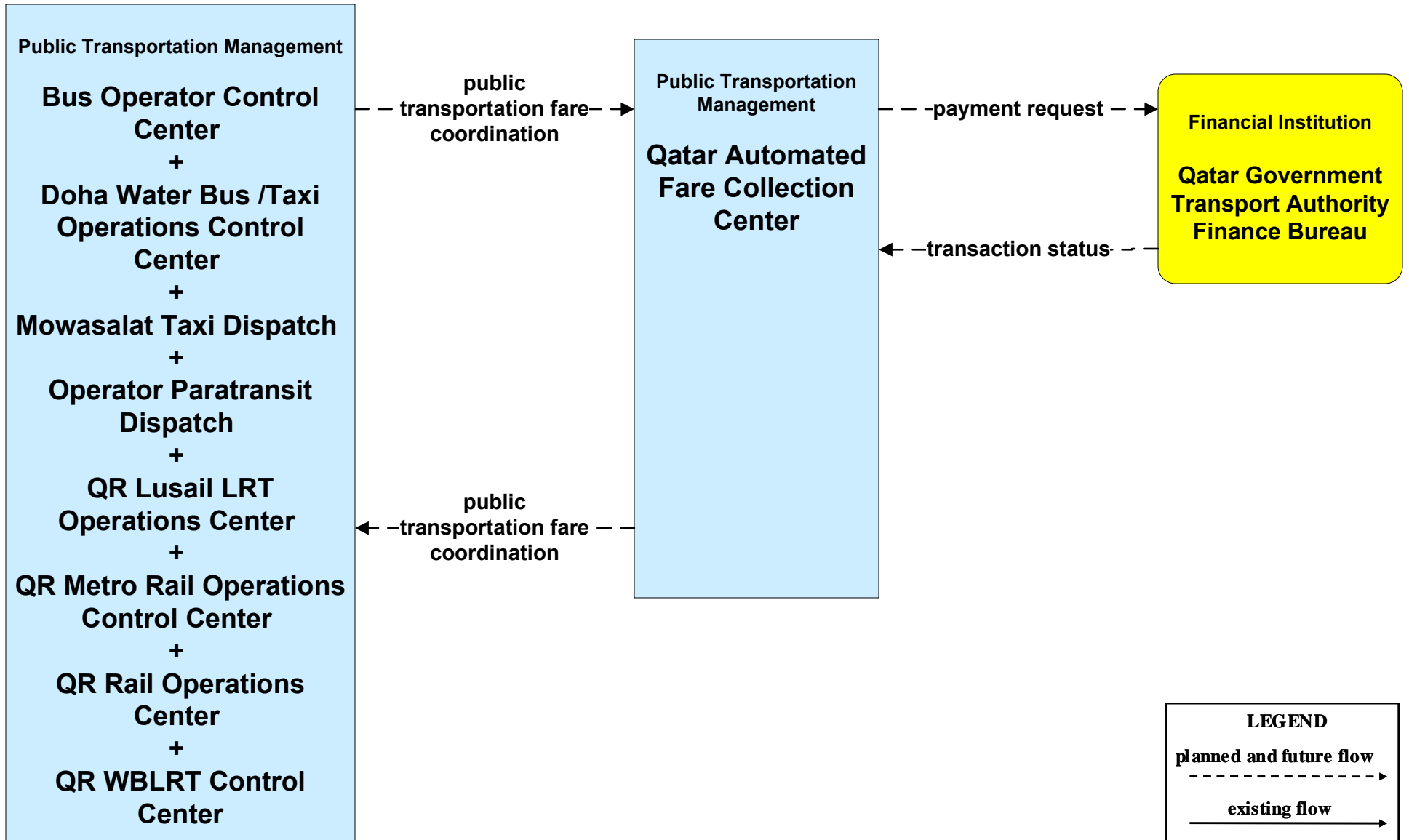
**APTS03 - Demand Response Public Transportation Operations
Mowasalat Demand Response**



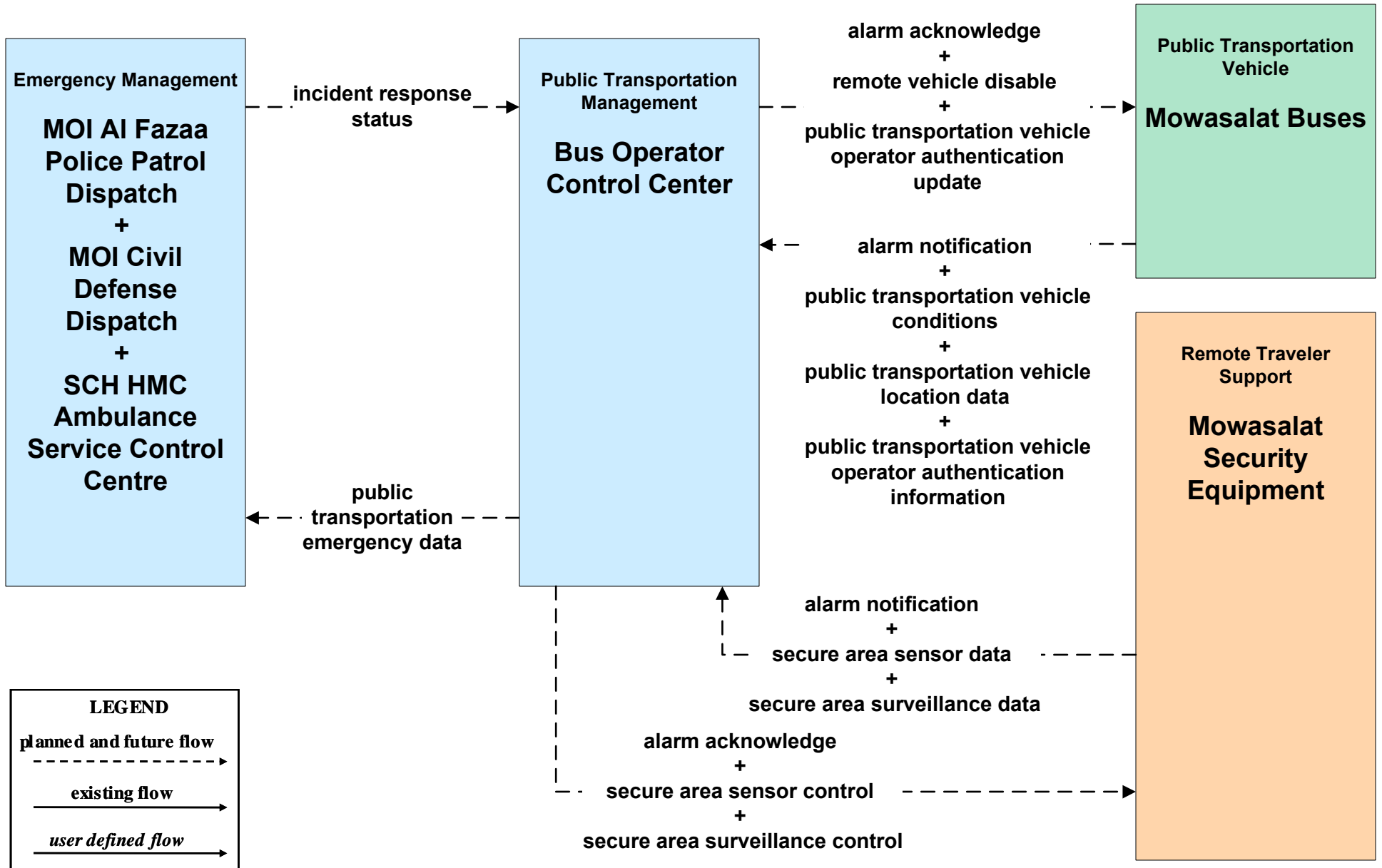
APTS04 - Public Transportation Passenger and Fare Payment Qatar SmartCard System



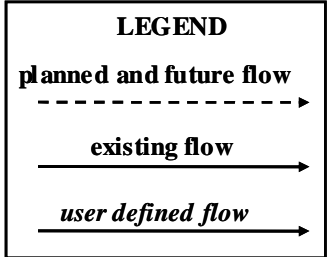
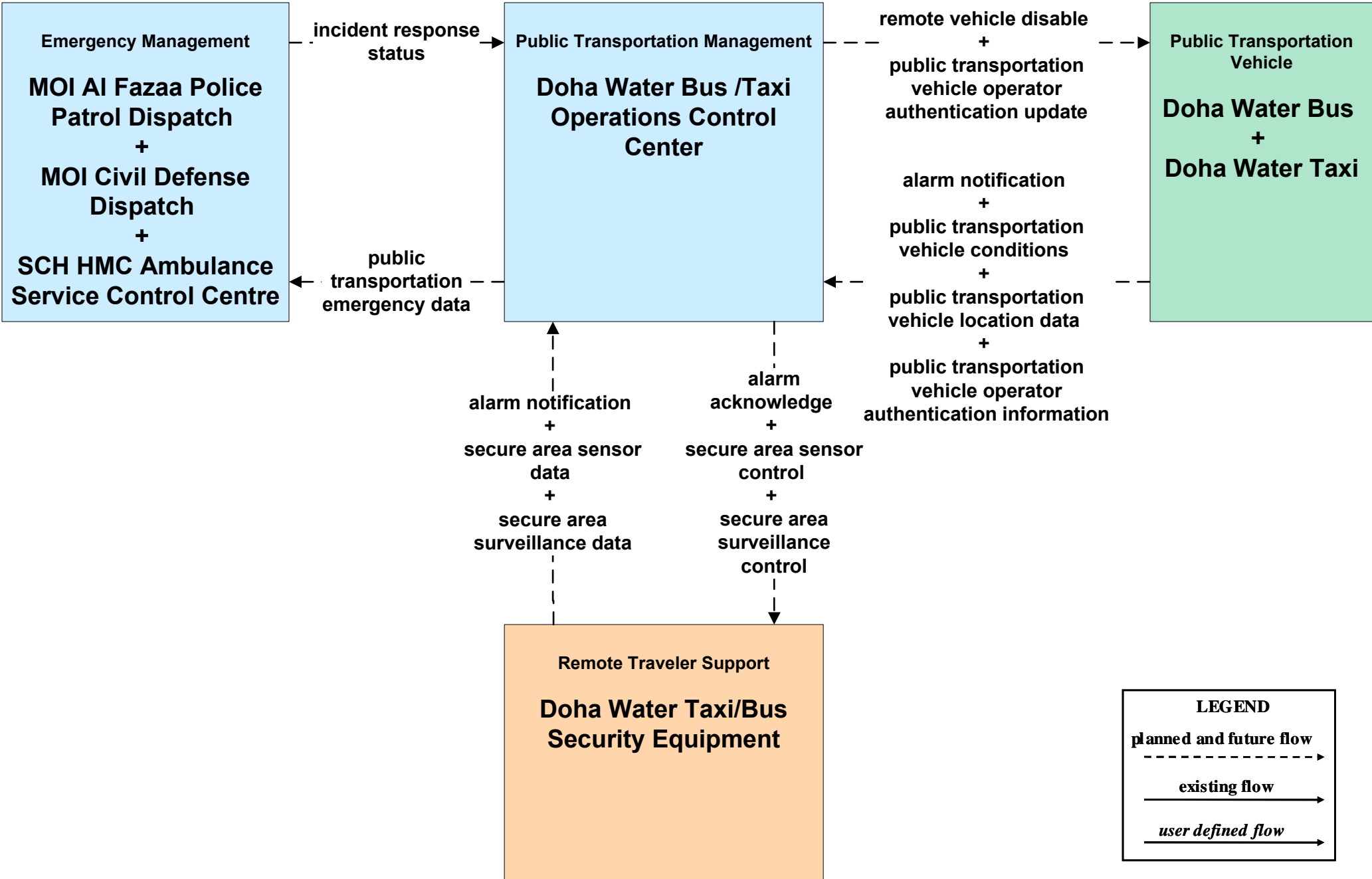
**APTS04 - Public Transportation Passenger and Fare Payment
Public Transportation Fare Coordination**



APTS05 - Public Transportation Security Mowasalat Bus

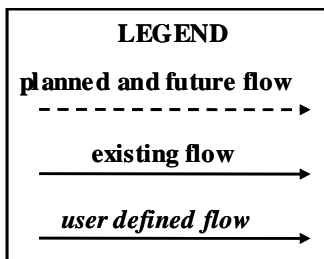
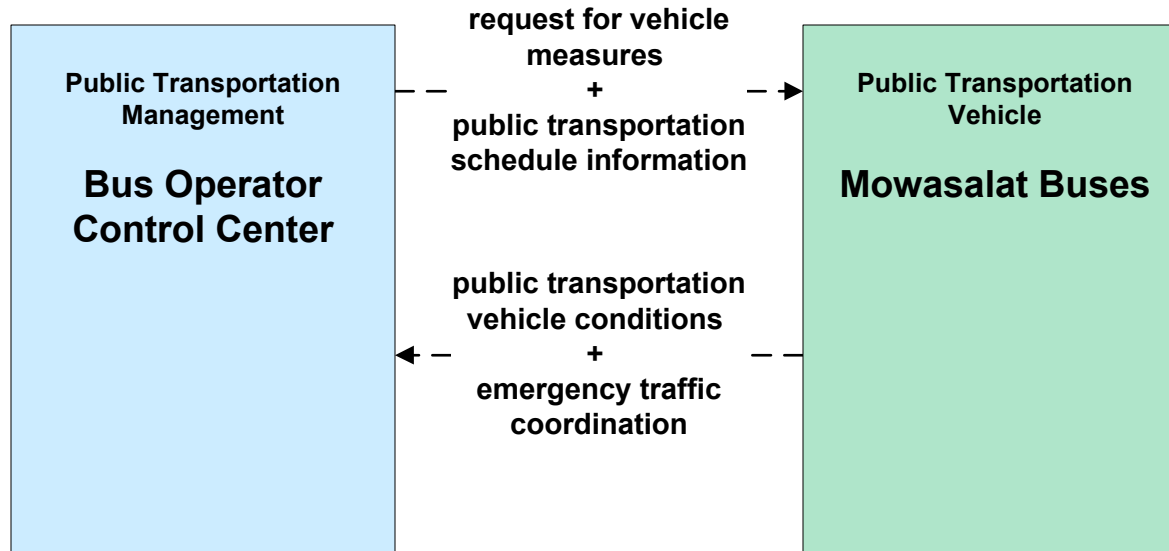


**APTS05 - Public Transportation Security
Doha Water Bus and Taxi**

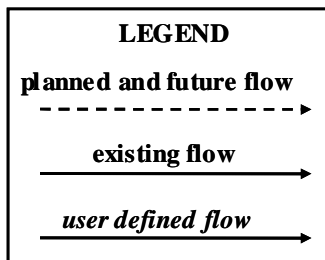
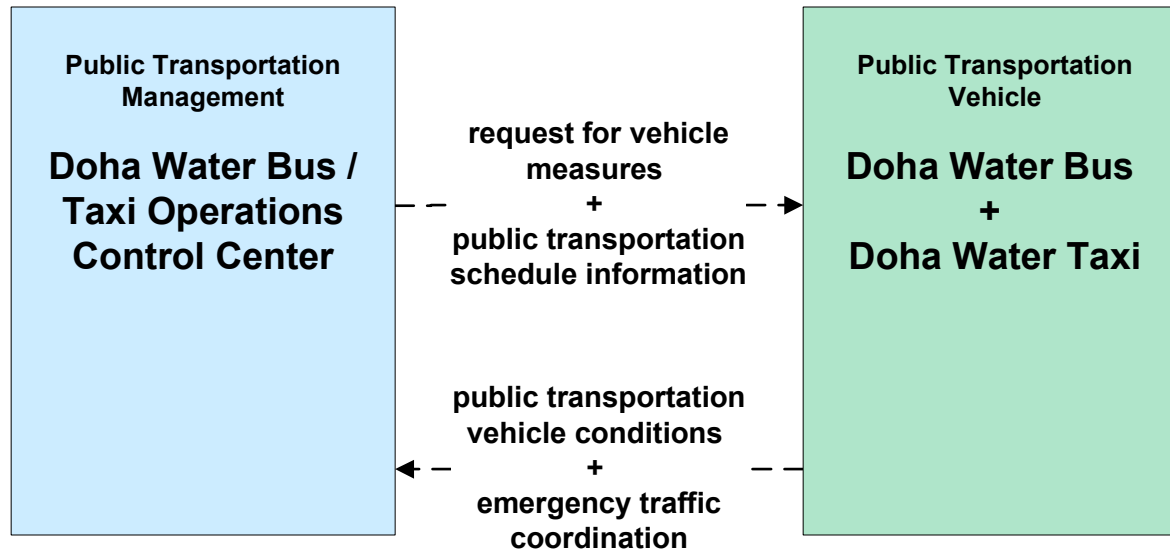


APTS06 - Public Transportation Fleet Management

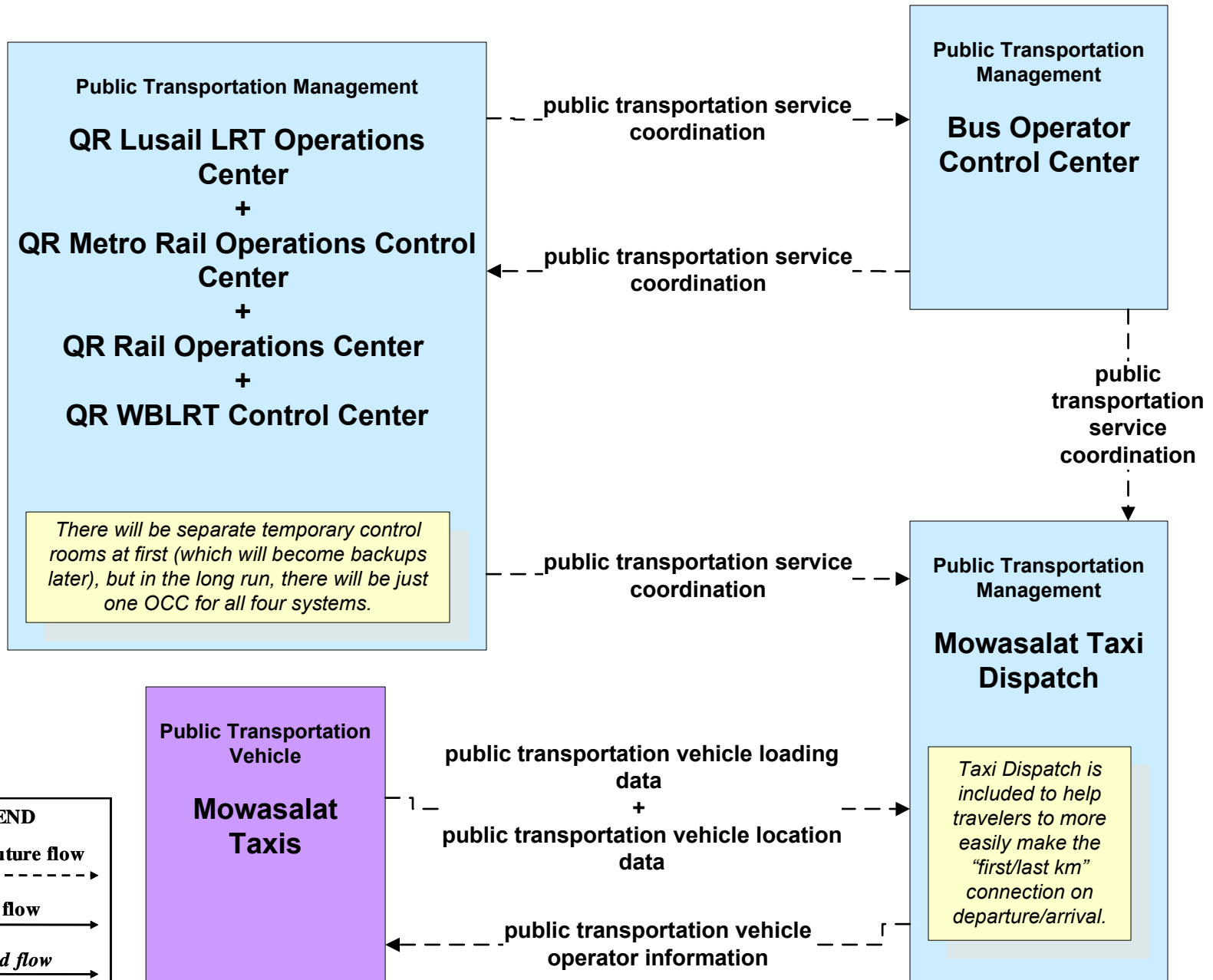
Mowasalat Bus



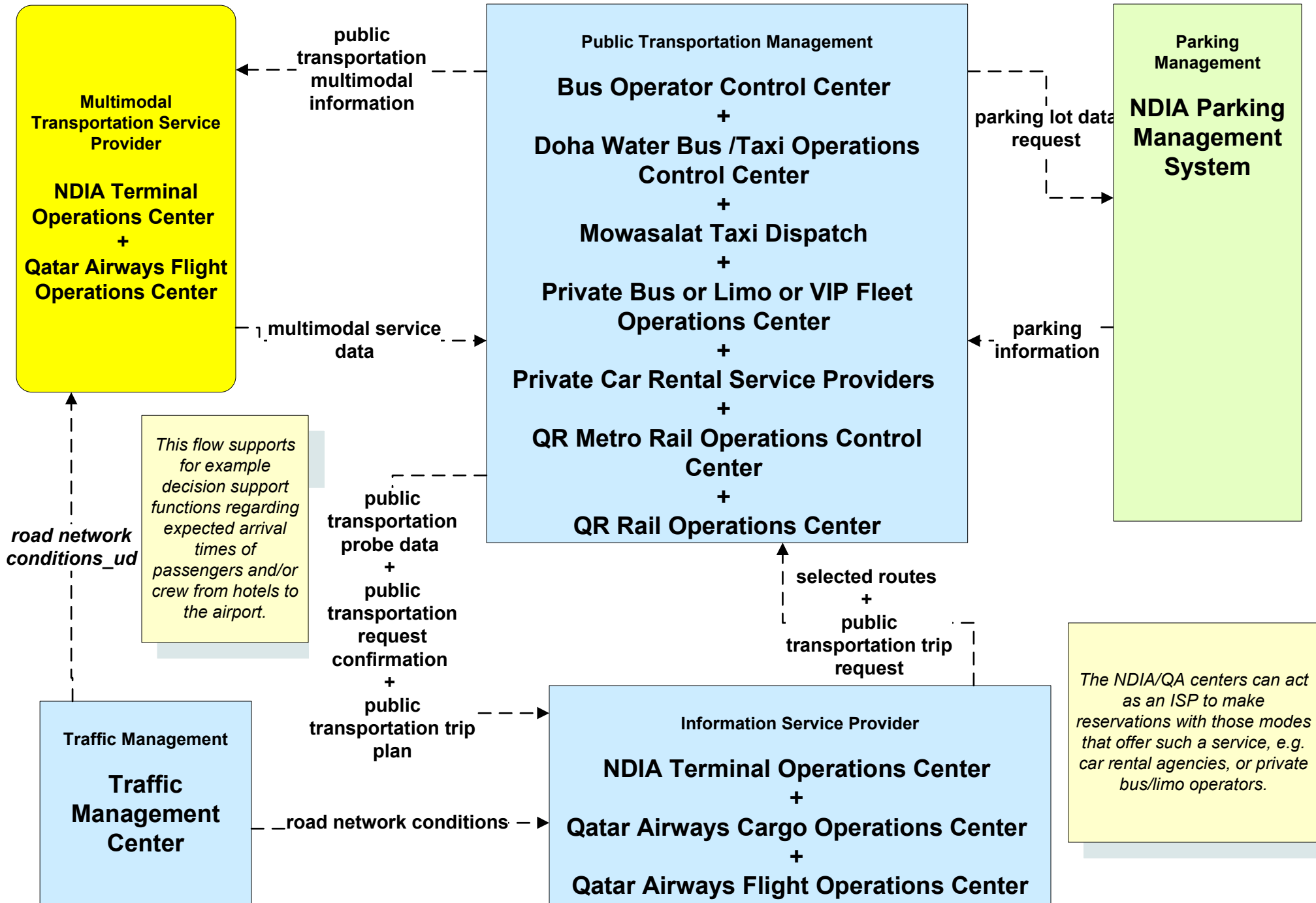
**APTS06 - Public Transportation Fleet Management
Doha Water Bus**



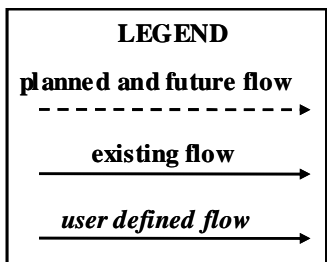
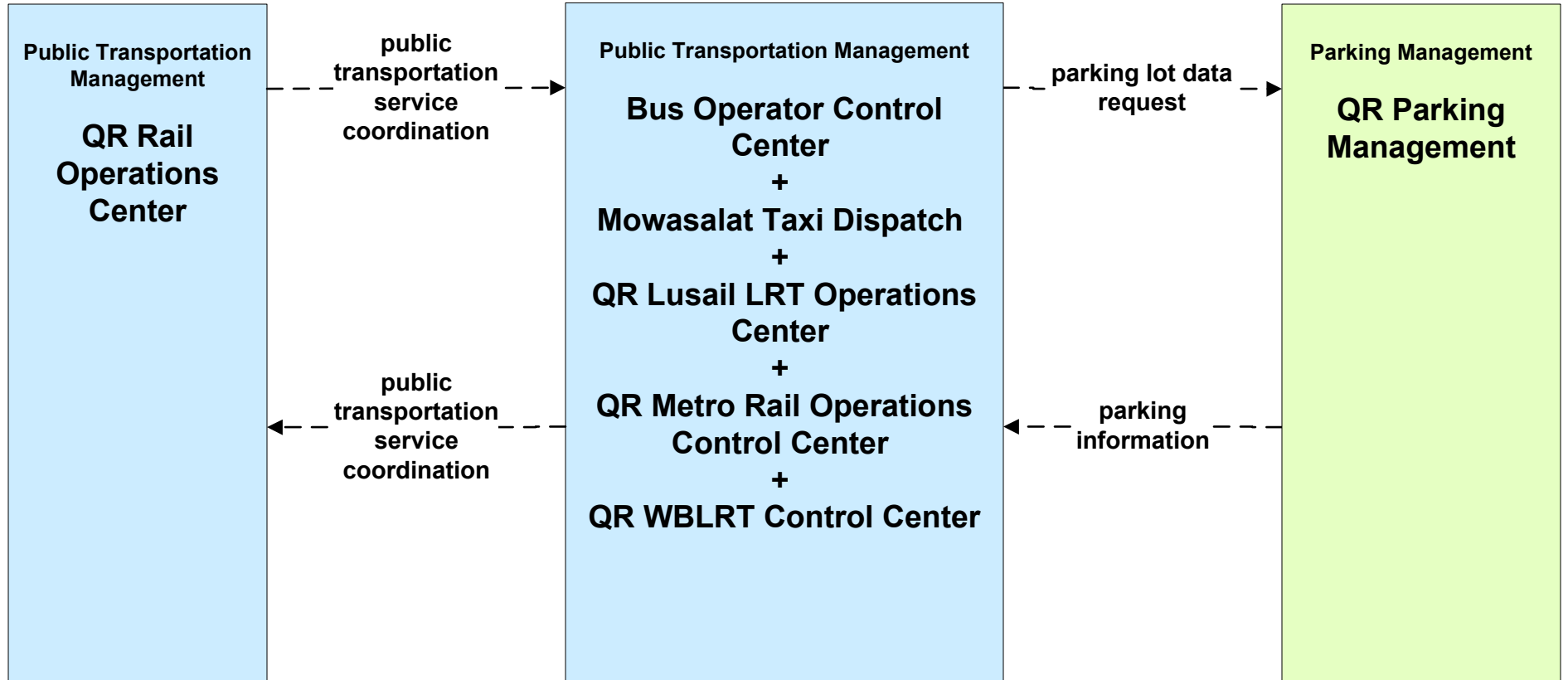
APTS07 - Multimodal Coordination Public Transportation Information Exchange



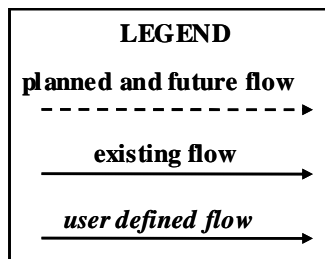
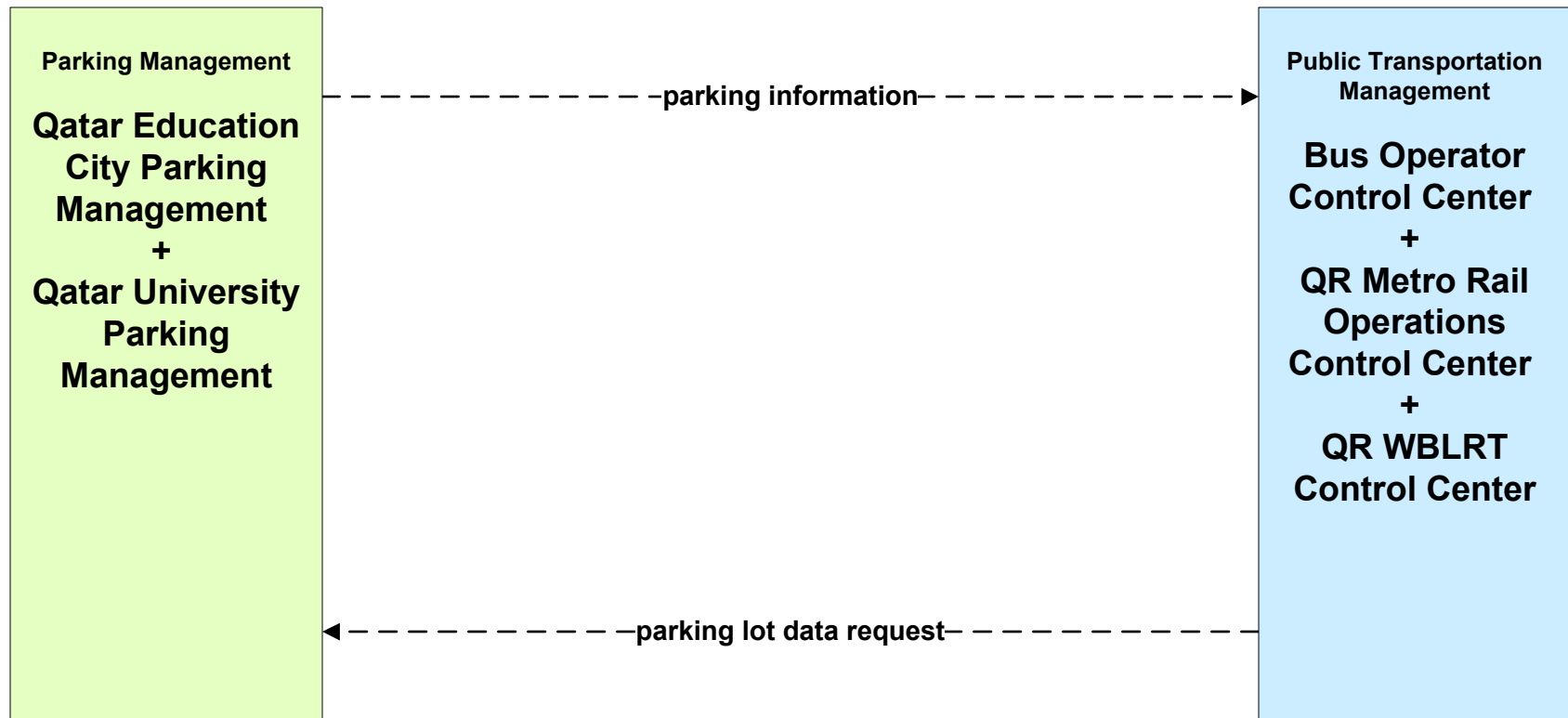
APTS07 - Multimodal Coordination NDIA



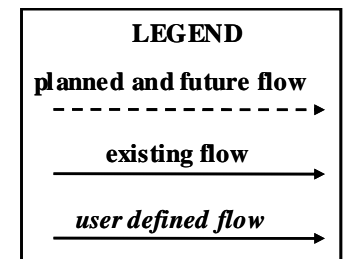
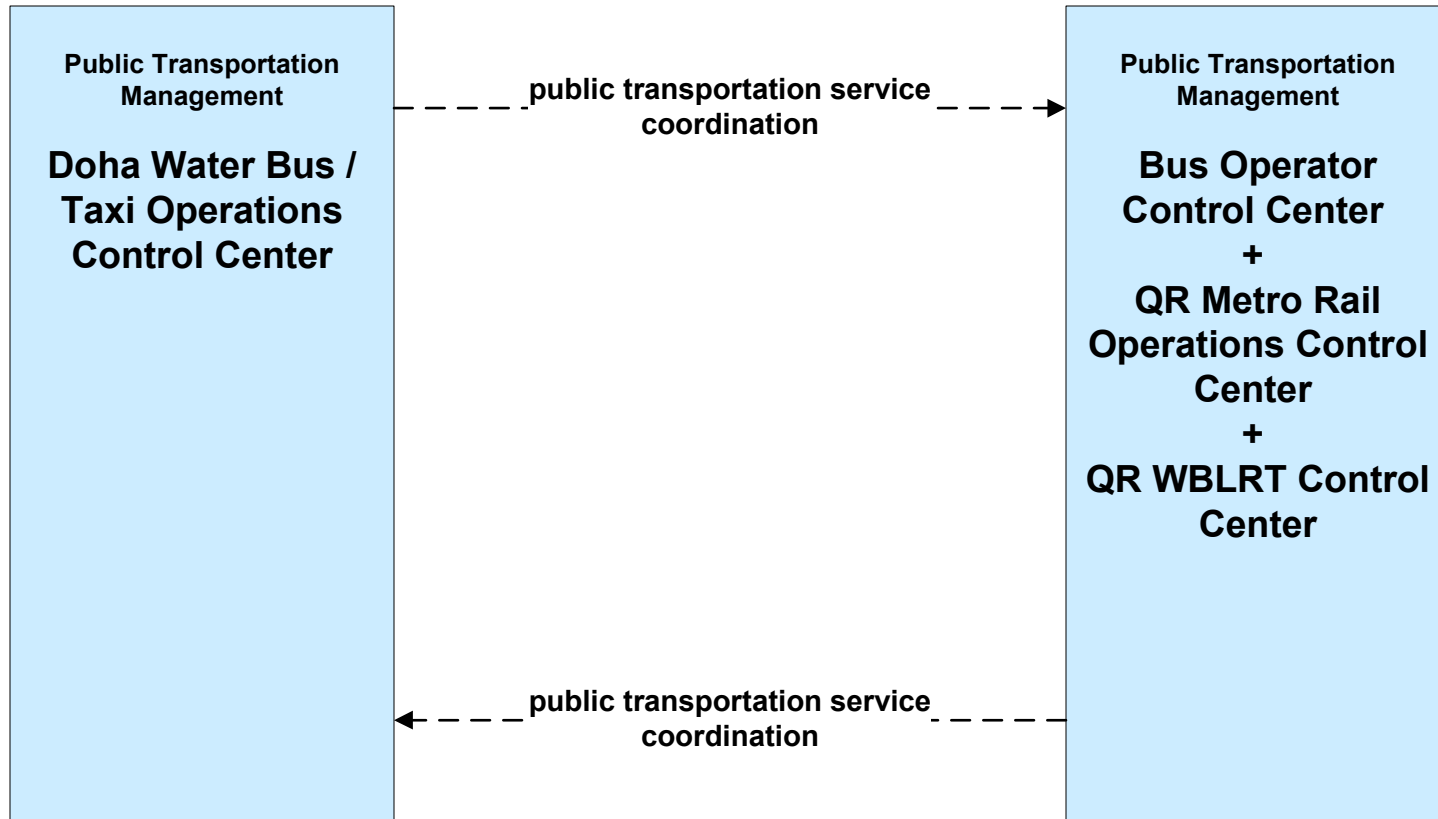
**APTS07 - Multimodal Coordination
Qatar Railways**



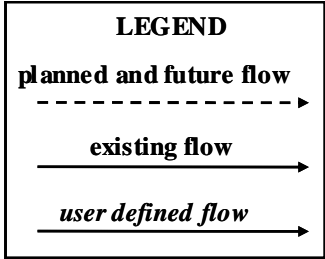
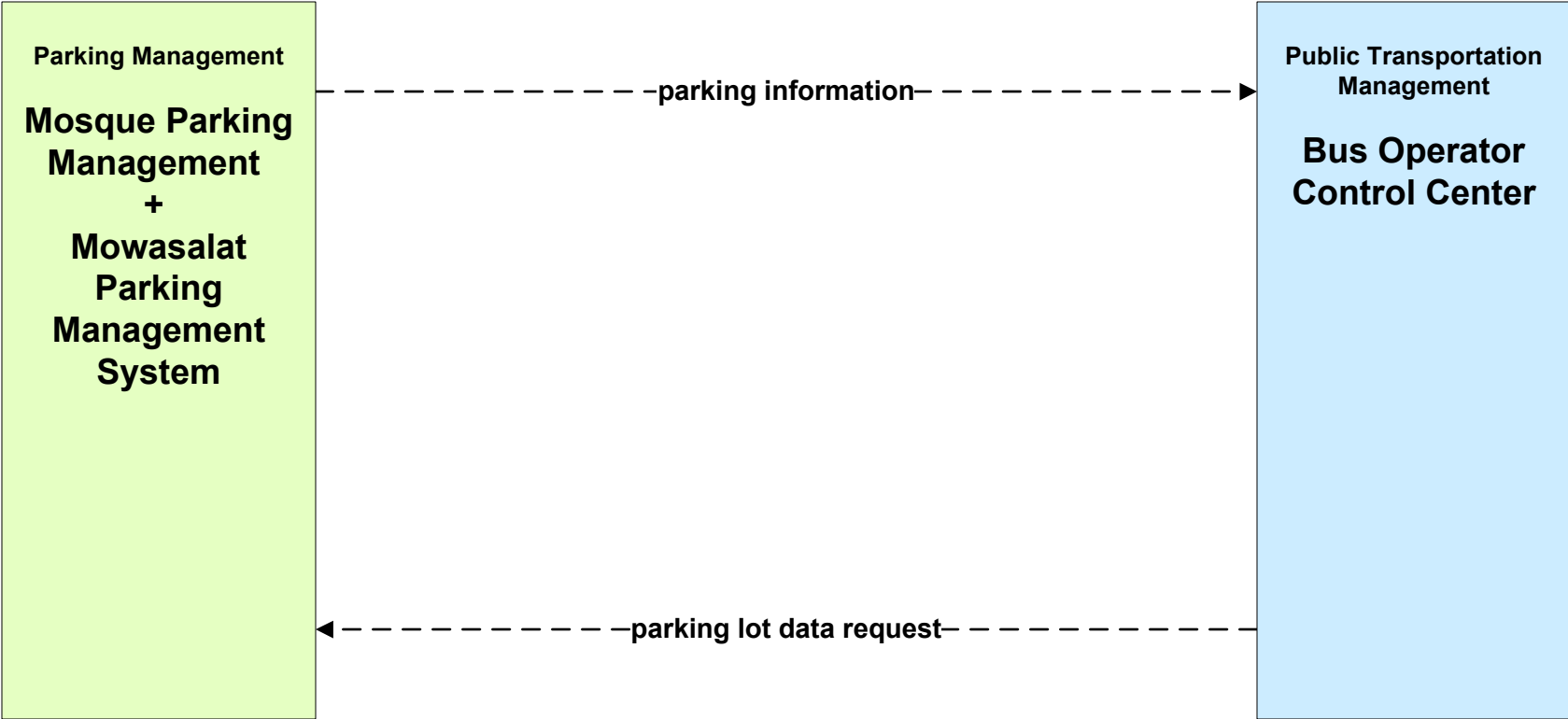
**APTS07 - Multimodal Coordination
Qatar Education City and Qatar University**



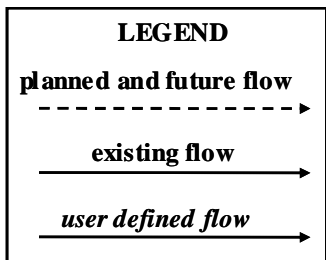
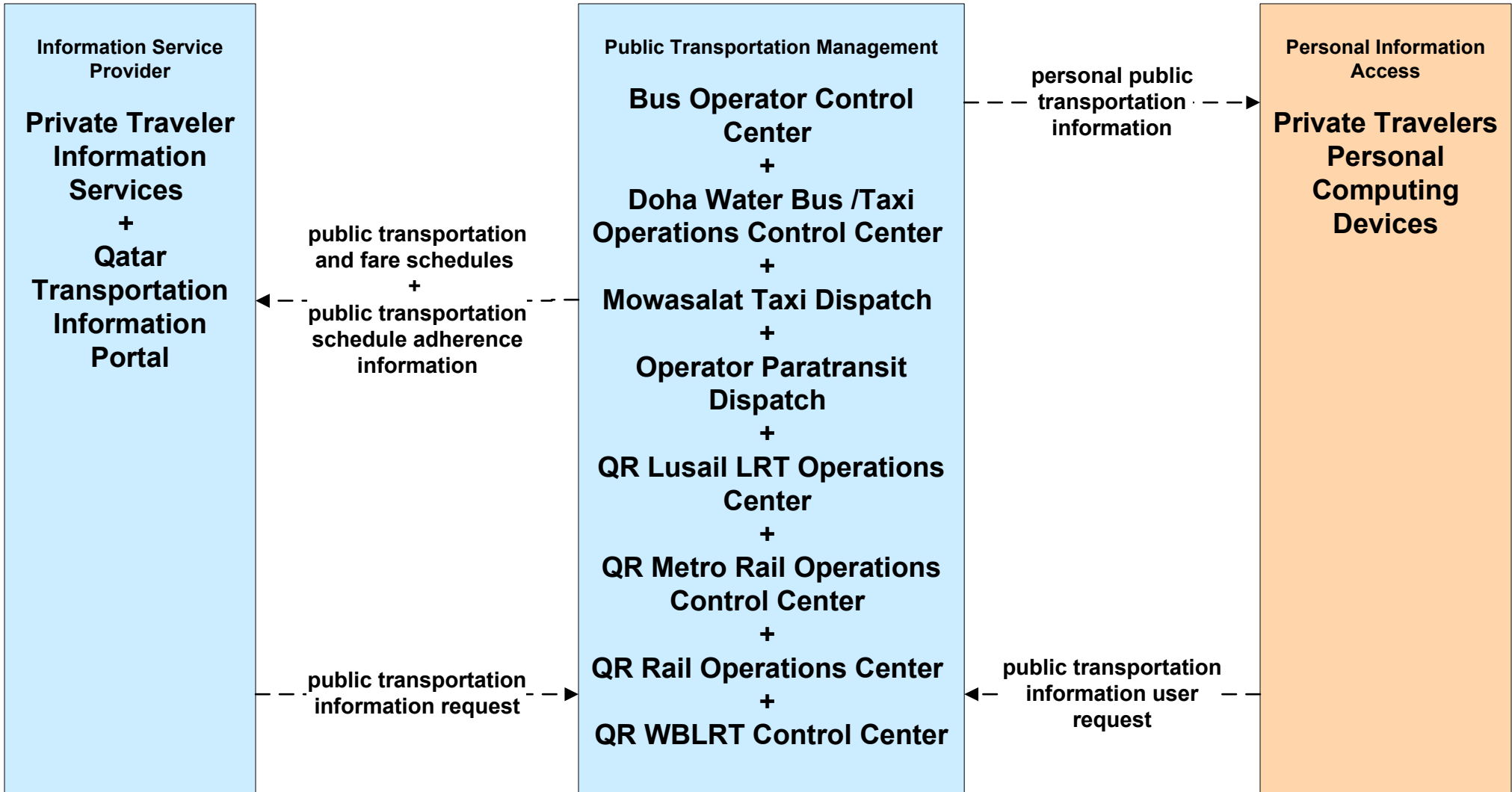
**APTS07 - Multimodal Coordination
Doha Bay Water Bus and Taxi**



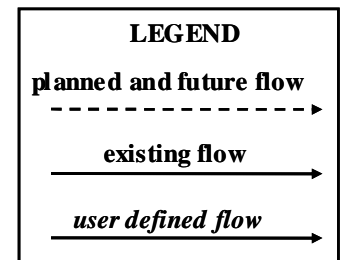
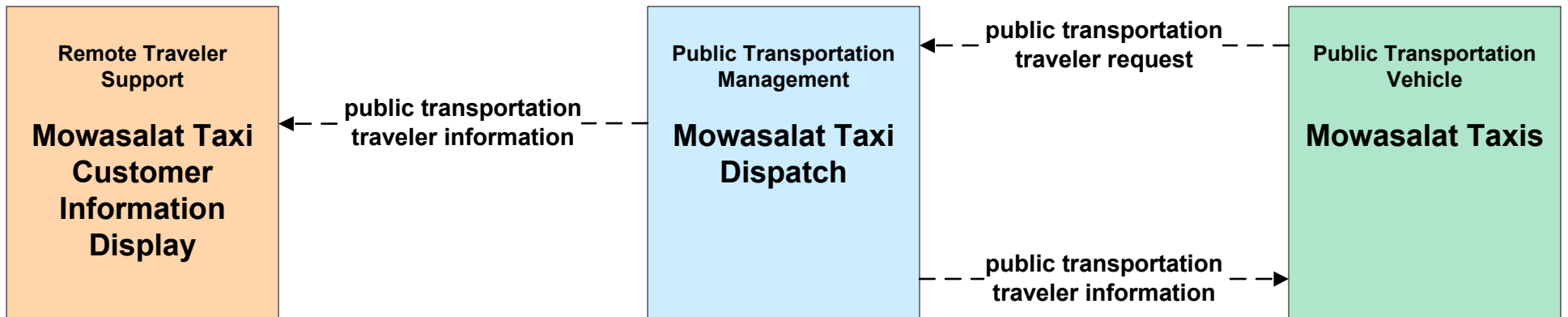
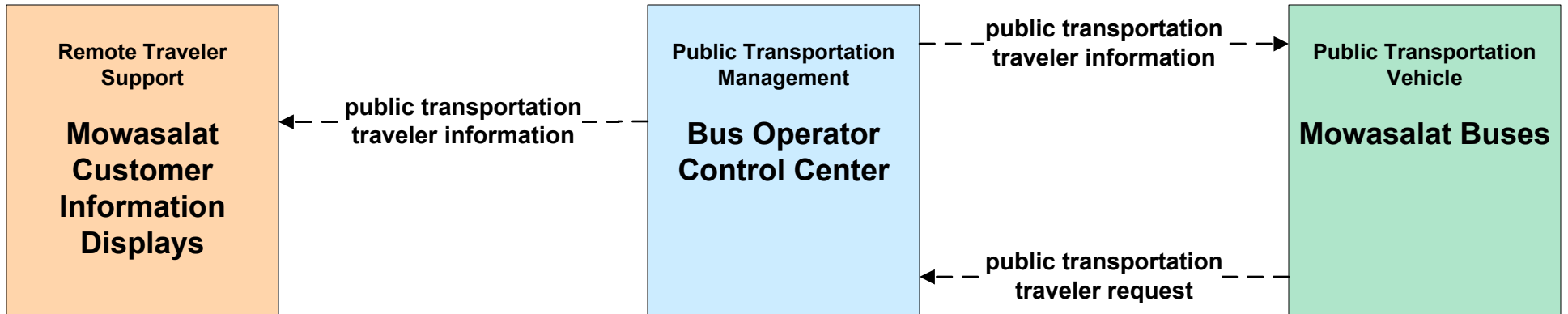
**APTS07 - Multimodal Coordination
Mosque Parking**



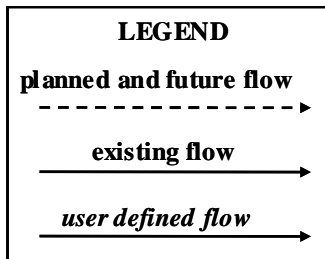
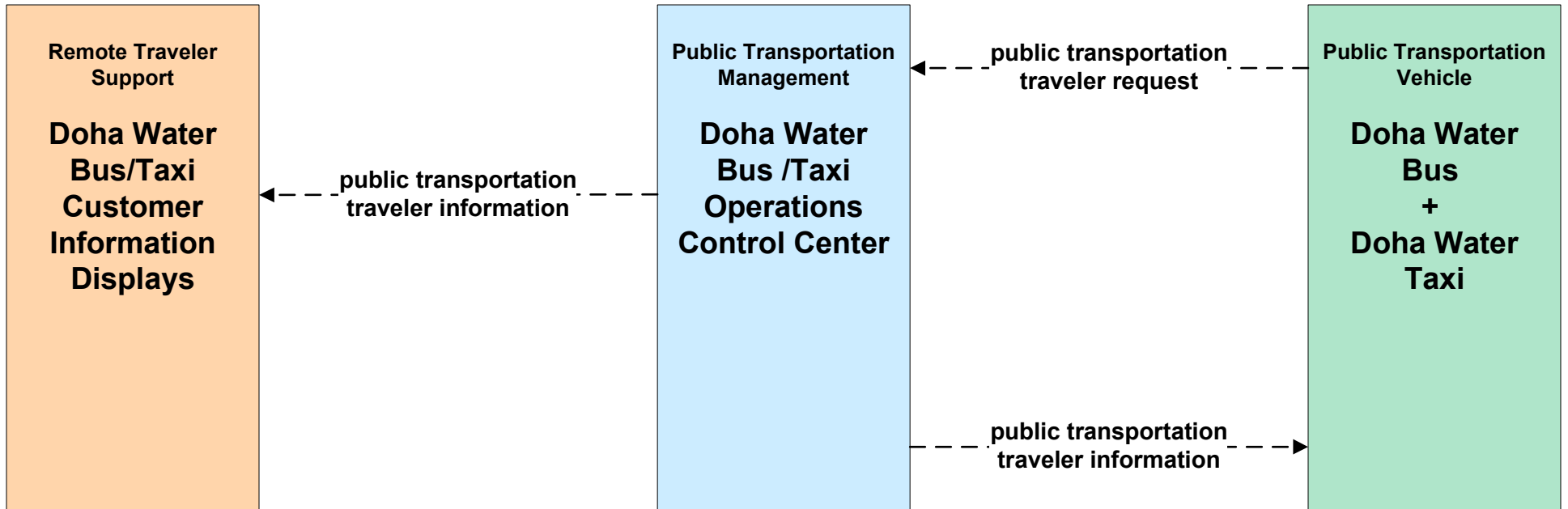
**APTS08 - Public Transportation Traveler Information
Private Traveler Information**



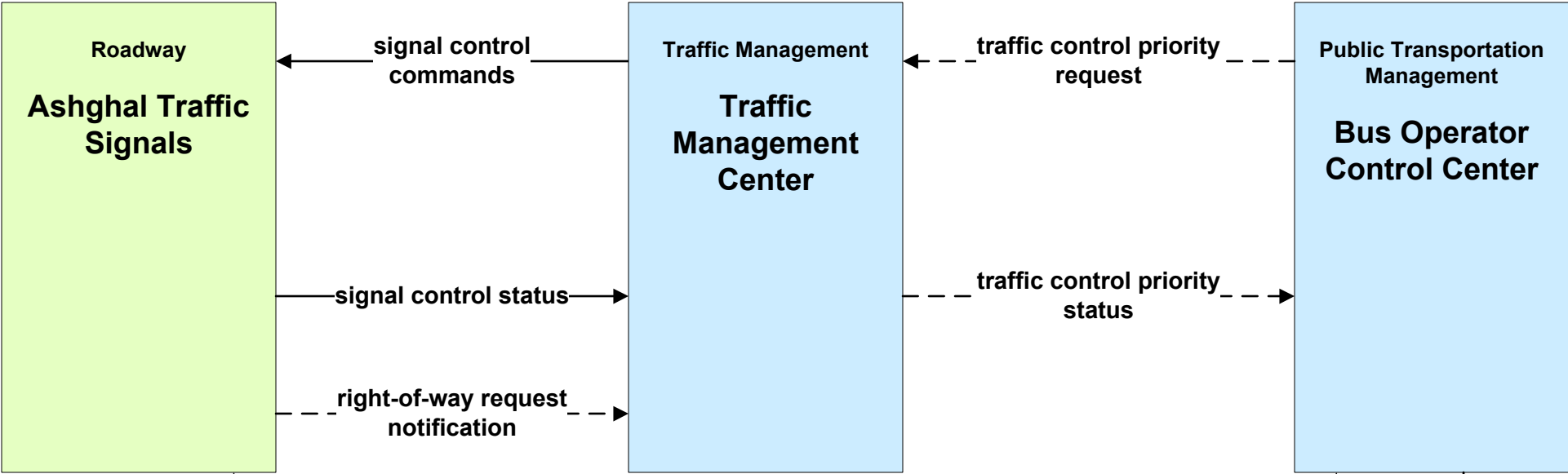
**APTS08 - Public Transportation Traveler Information
Mowasalat**



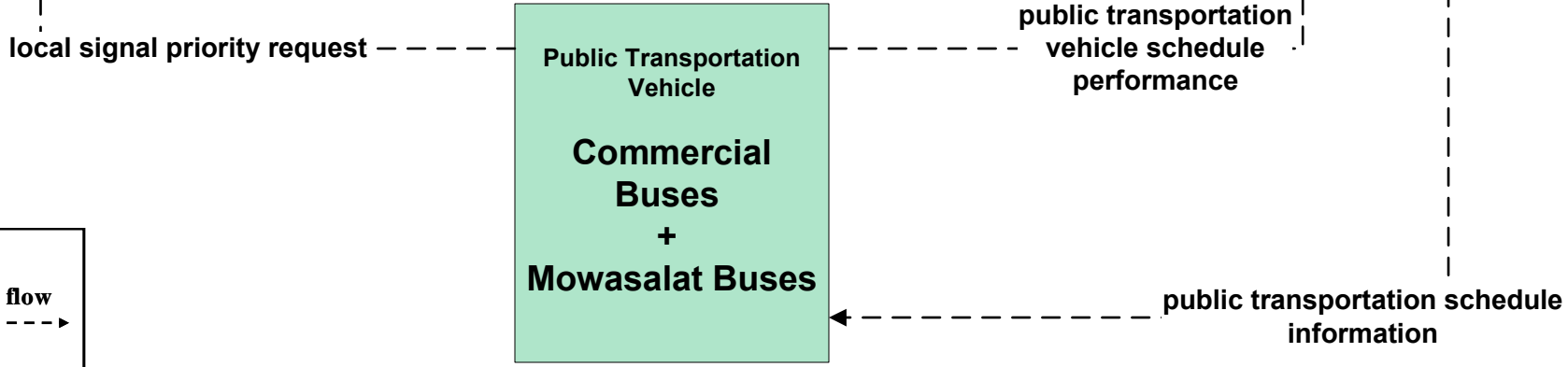
**APTS08 - Public Transportation Traveler Information
Doha Bay Water Taxi**



APTS09 - Public Transportation Signal Priority Mowasalat Buses



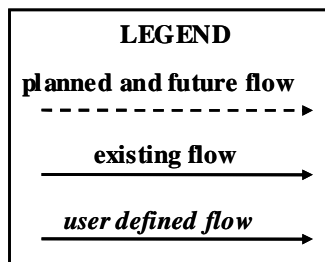
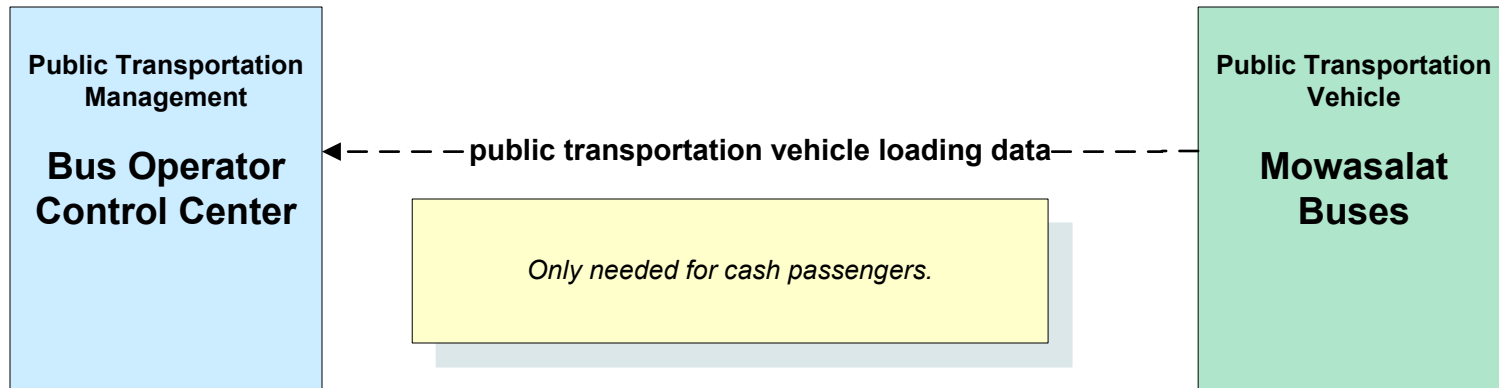
Need to determine if signal priority will be DSRC or C2C.



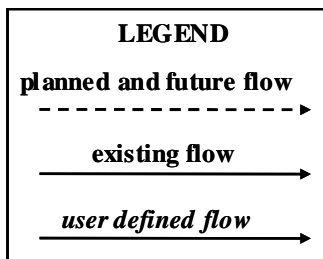
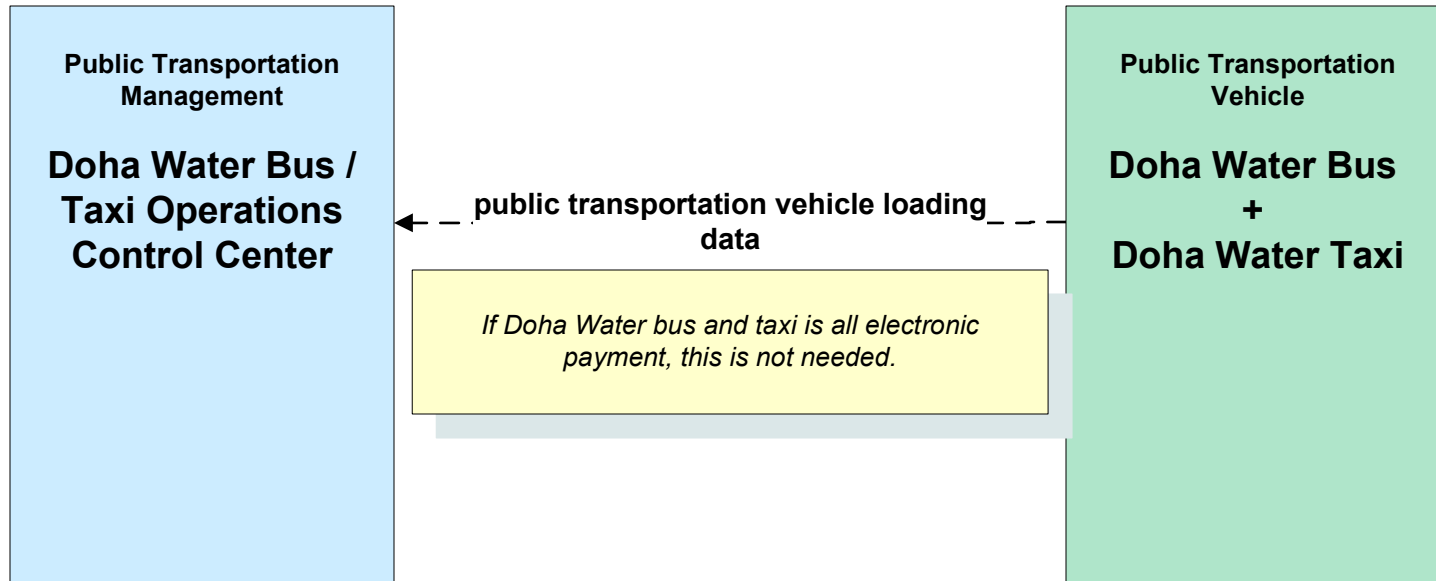
LEGEND

- planned and future flow* →
- existing flow* →
- user defined flow* →

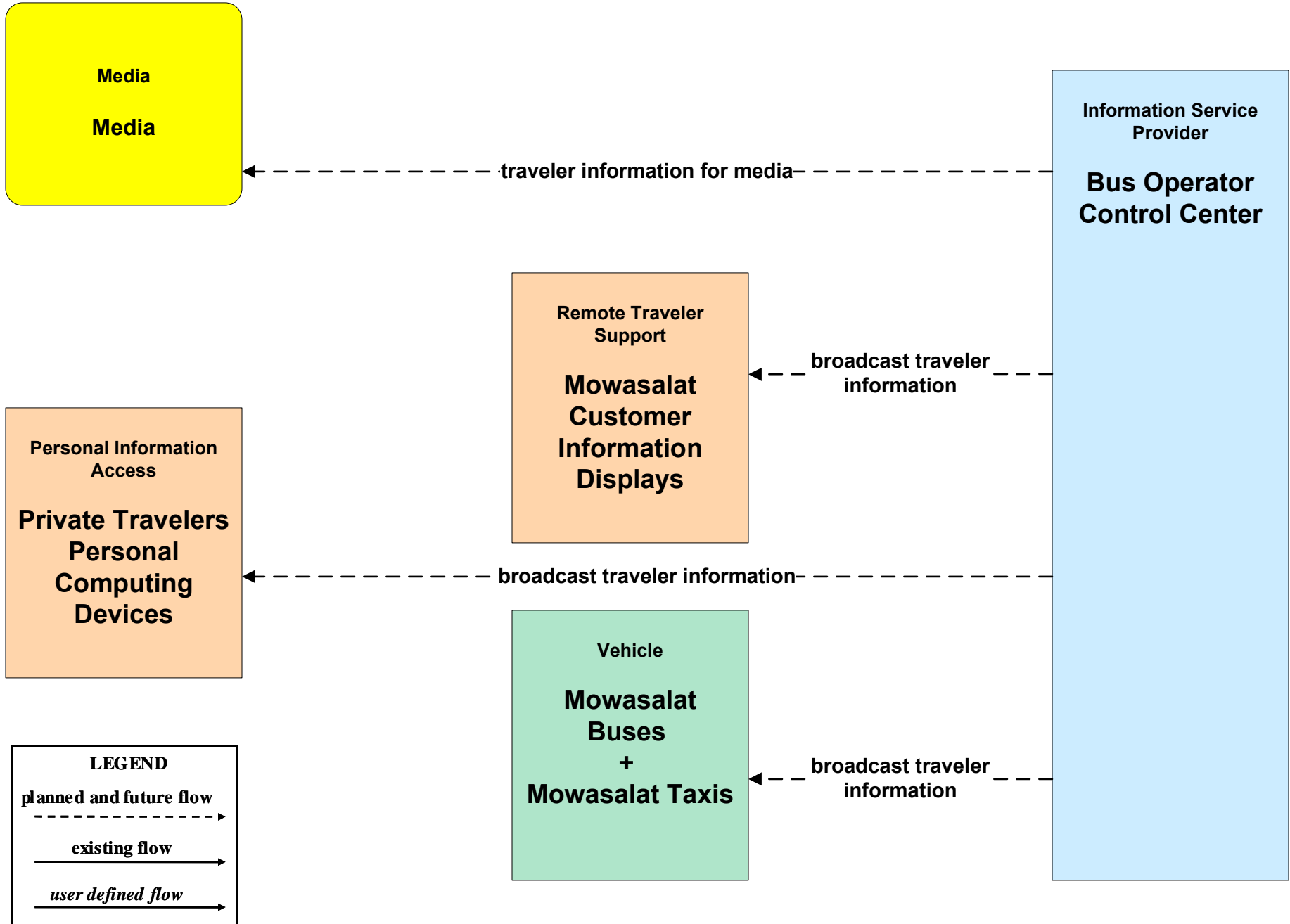
APTS10 – Public Transportation Passenger Counting Mowasalat



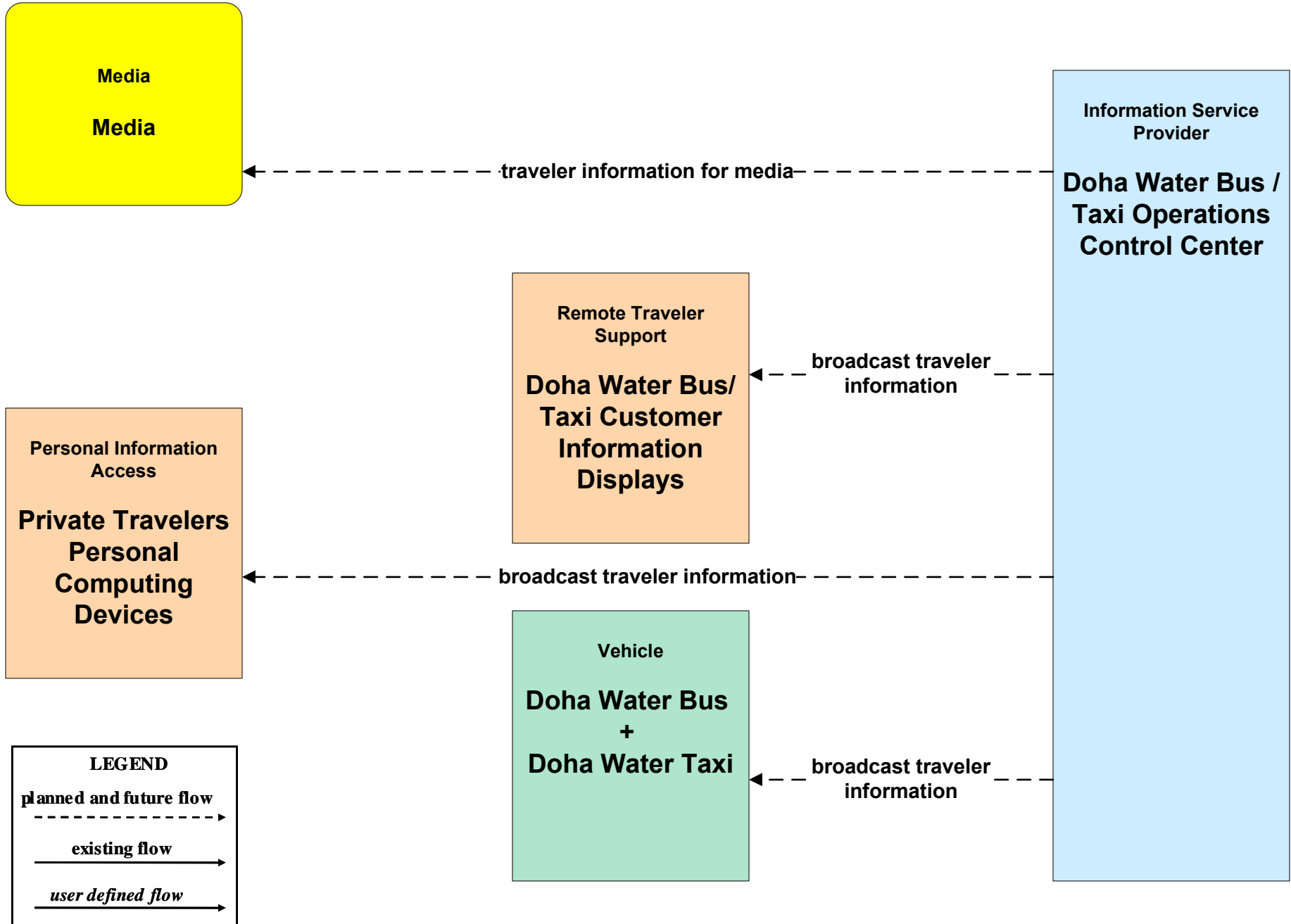
**APTS10 – Public Transportation Passenger Counting
Doha Bay Water Taxi**



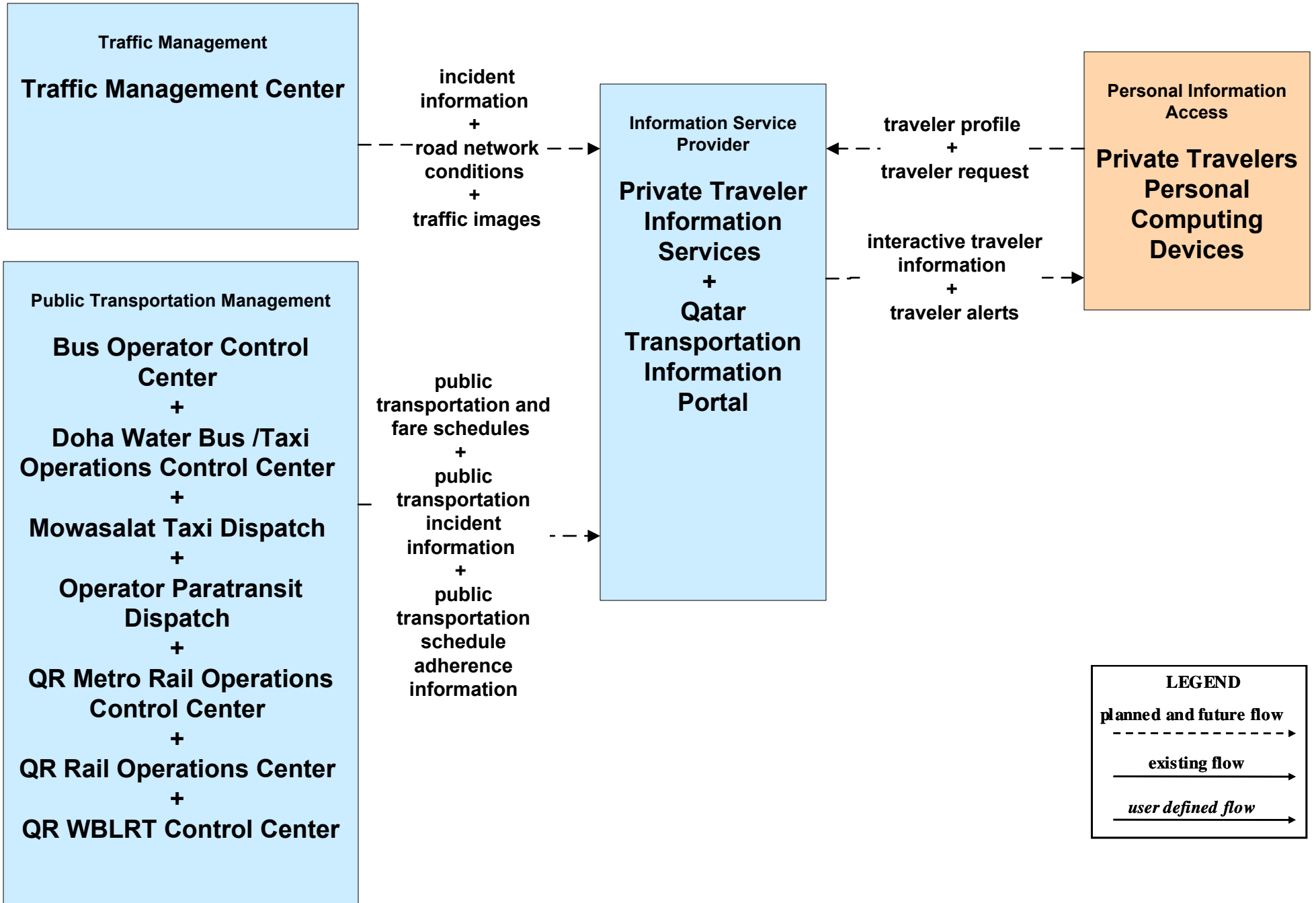
**ATIS01 - Broadcast Traveler Information
Mowasalat**



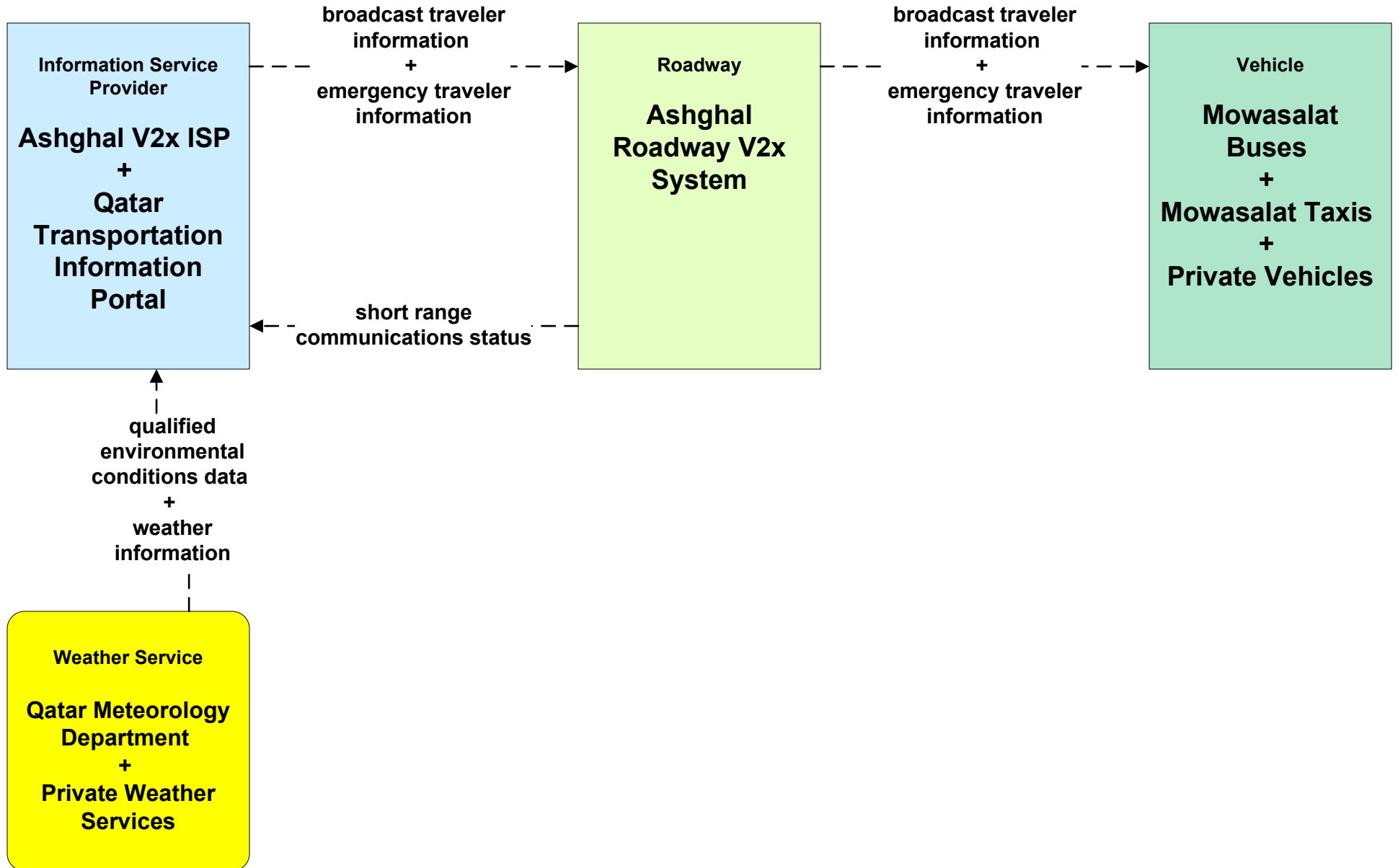
**ATIS01 - Broadcast Traveler Information
Doha Bay Water Taxi and Bus**



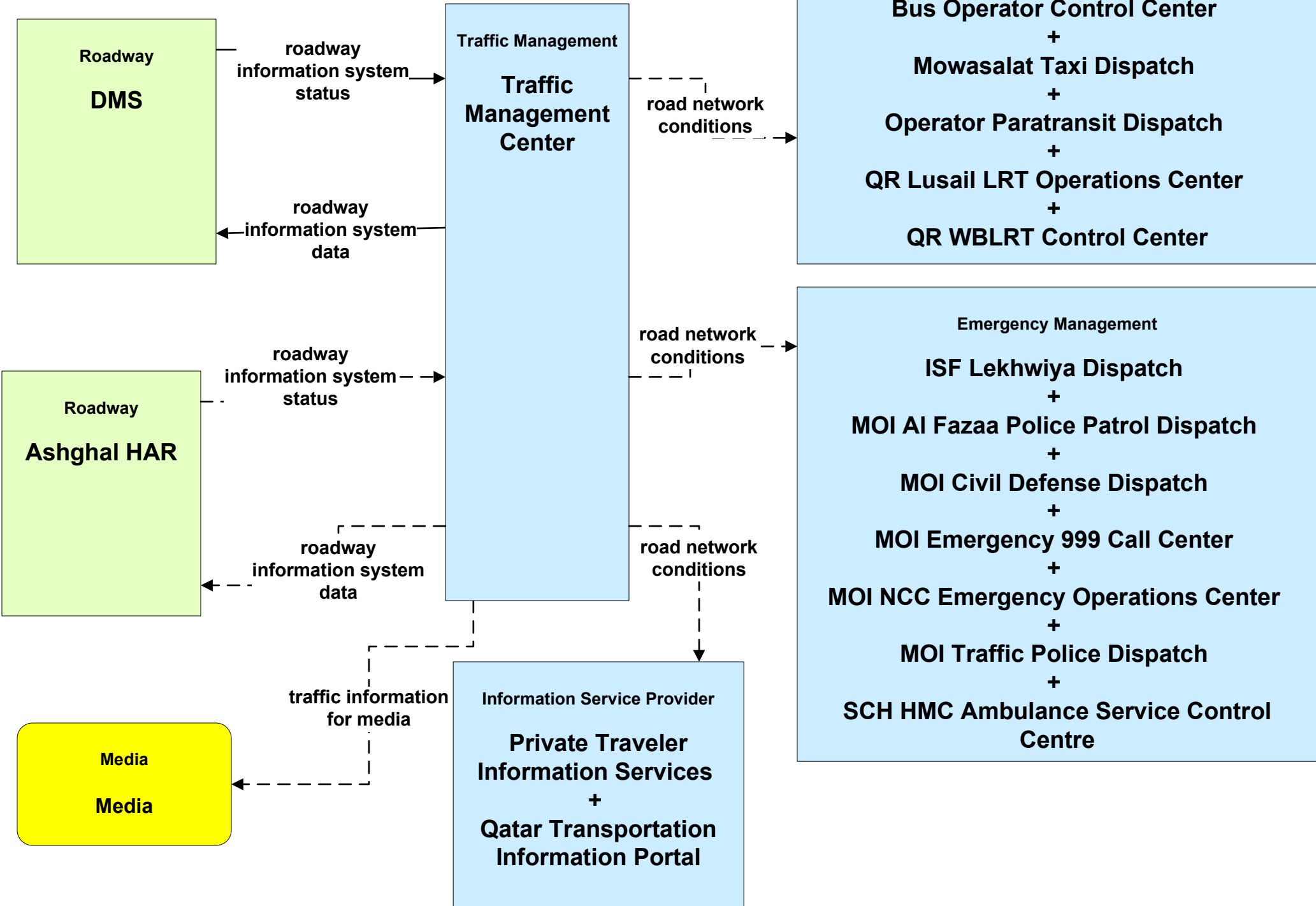
ATIS02 - Interactive Traveler Information



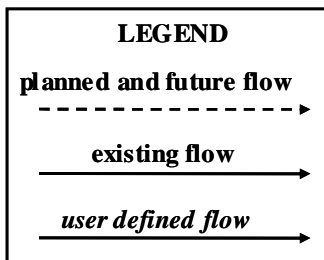
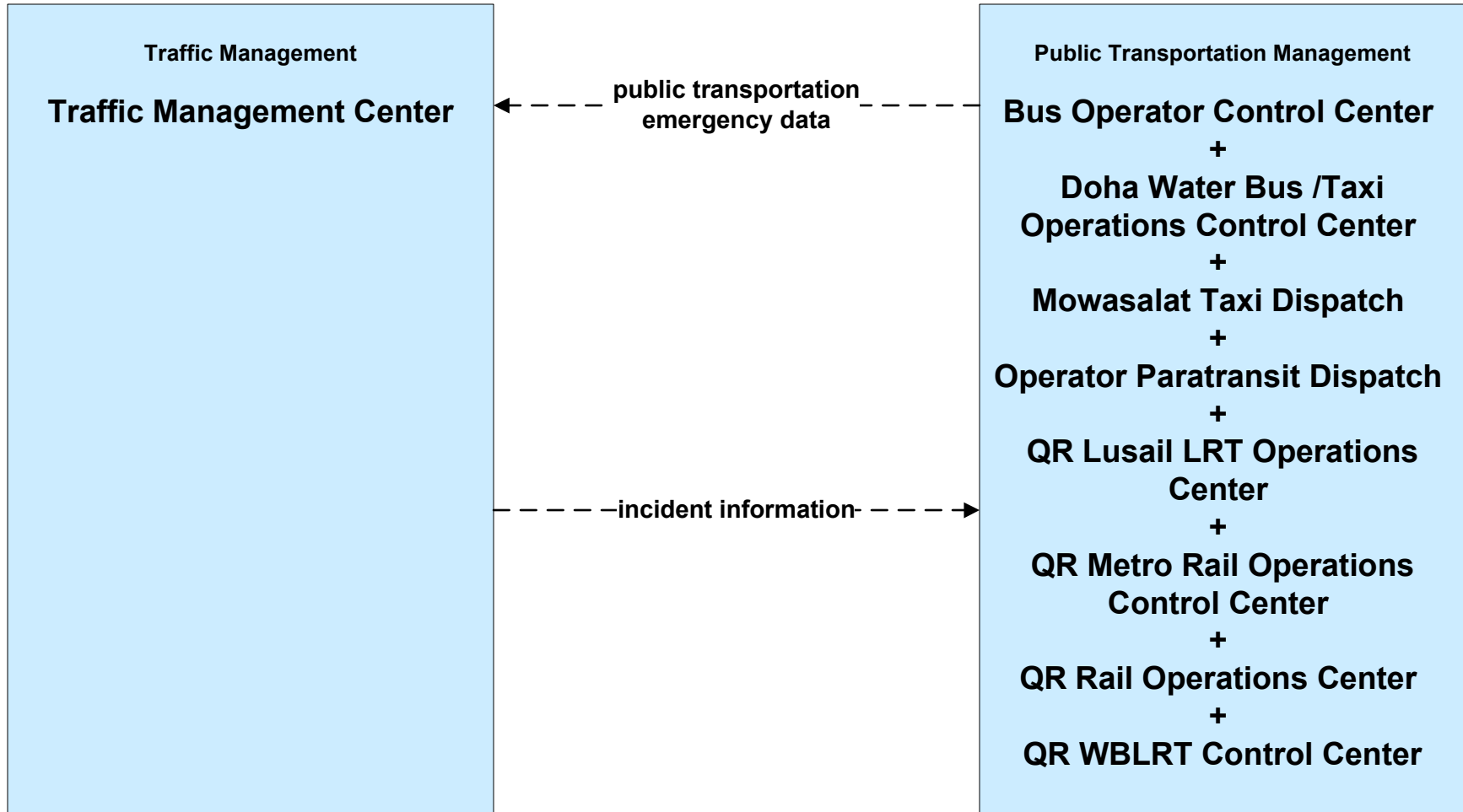
ATIS10 - SHORT Range Communications Traveler Information



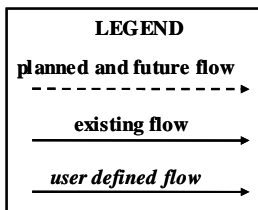
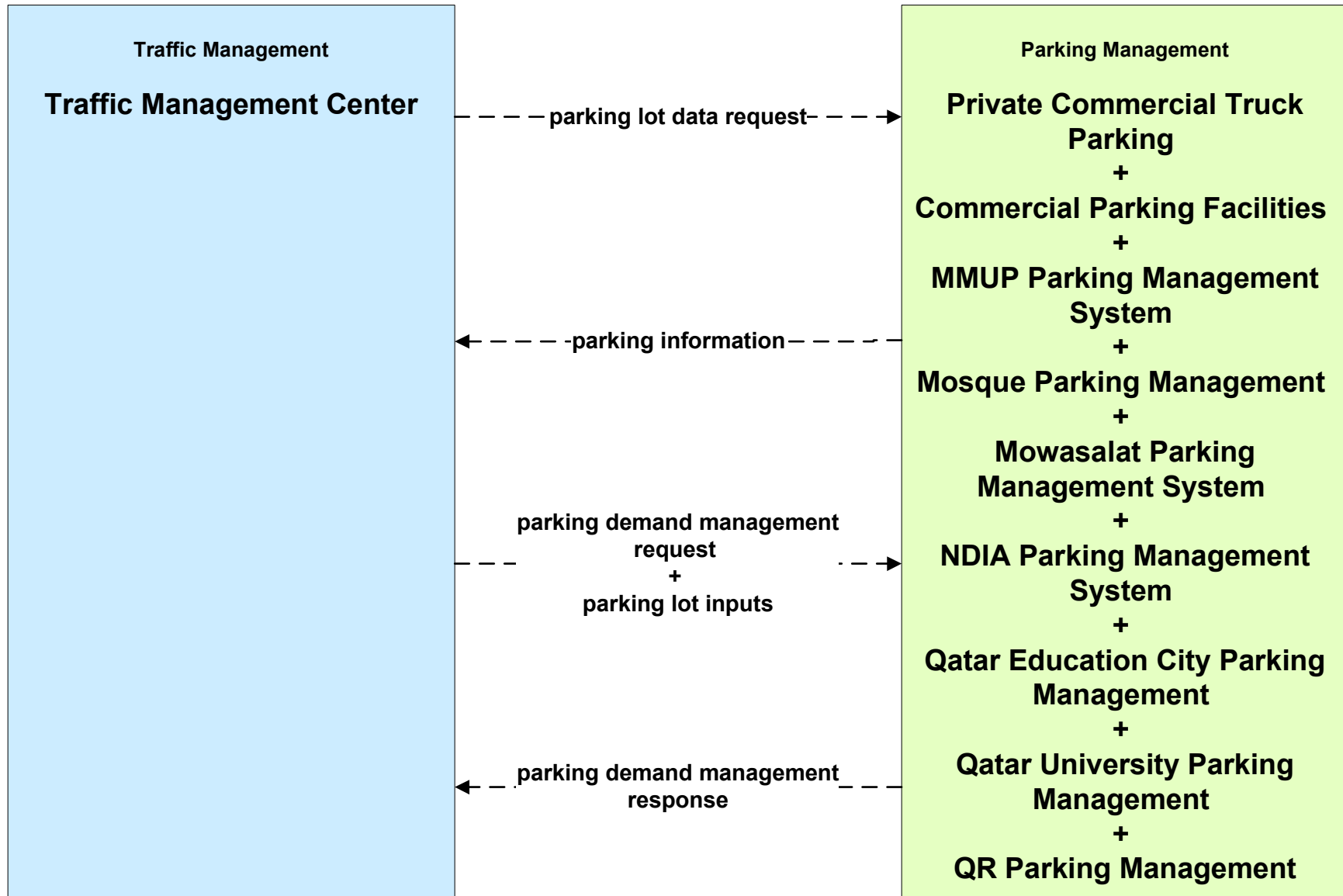
ATMS06 - Traffic Information Dissemination



**ATMS08 - Incident Management
Public Transportation Operations**

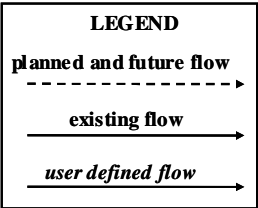
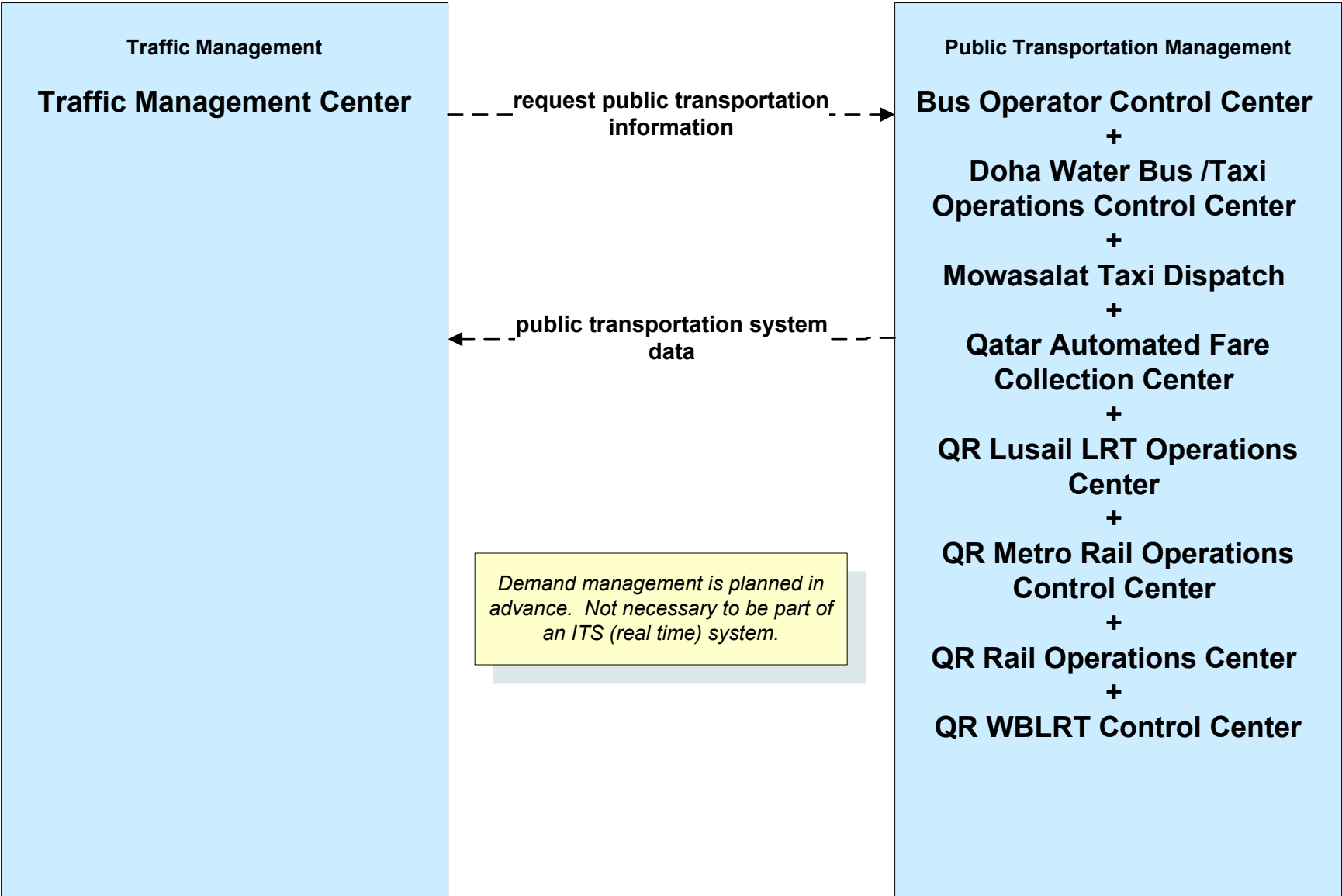


ATMS09 - Traffic Forecast and Demand Management Parking Management Systems for Special Events



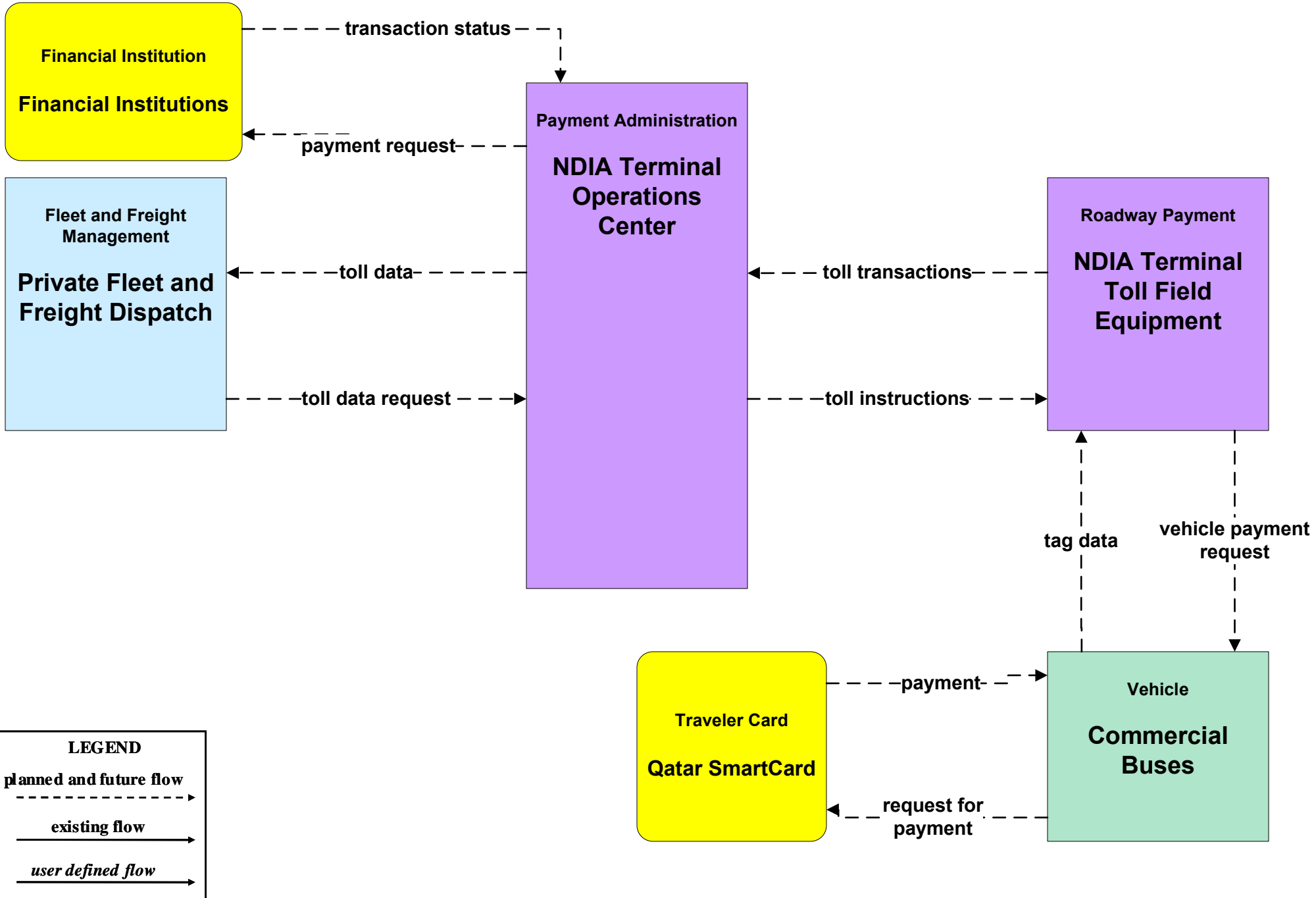
Will Ashghal include: Lusail Parking or Ashghal (TBD?) Park and Ride parking?

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

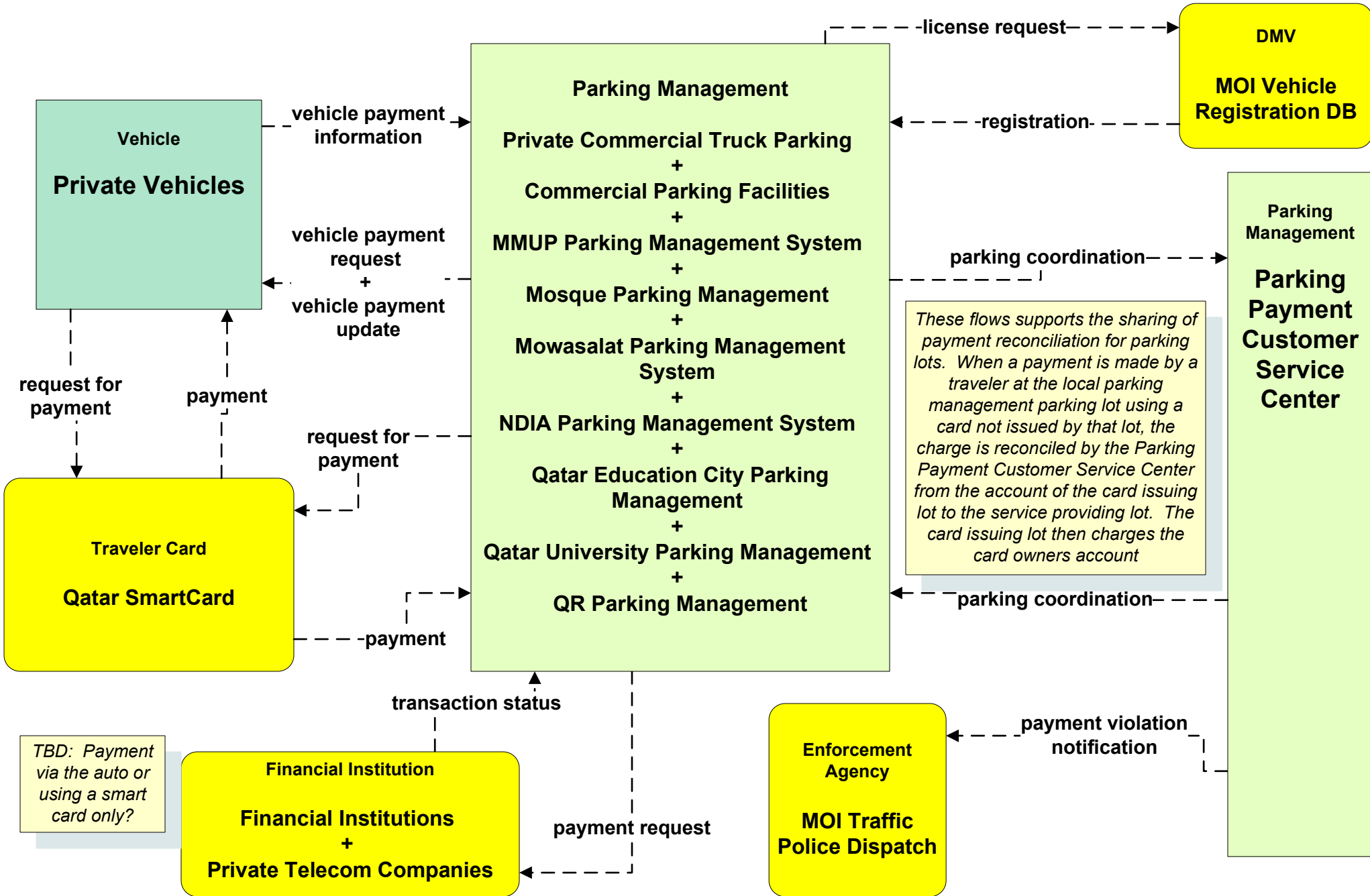


ATMS10 - Electronic Toll Collection

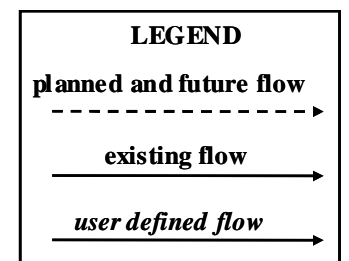
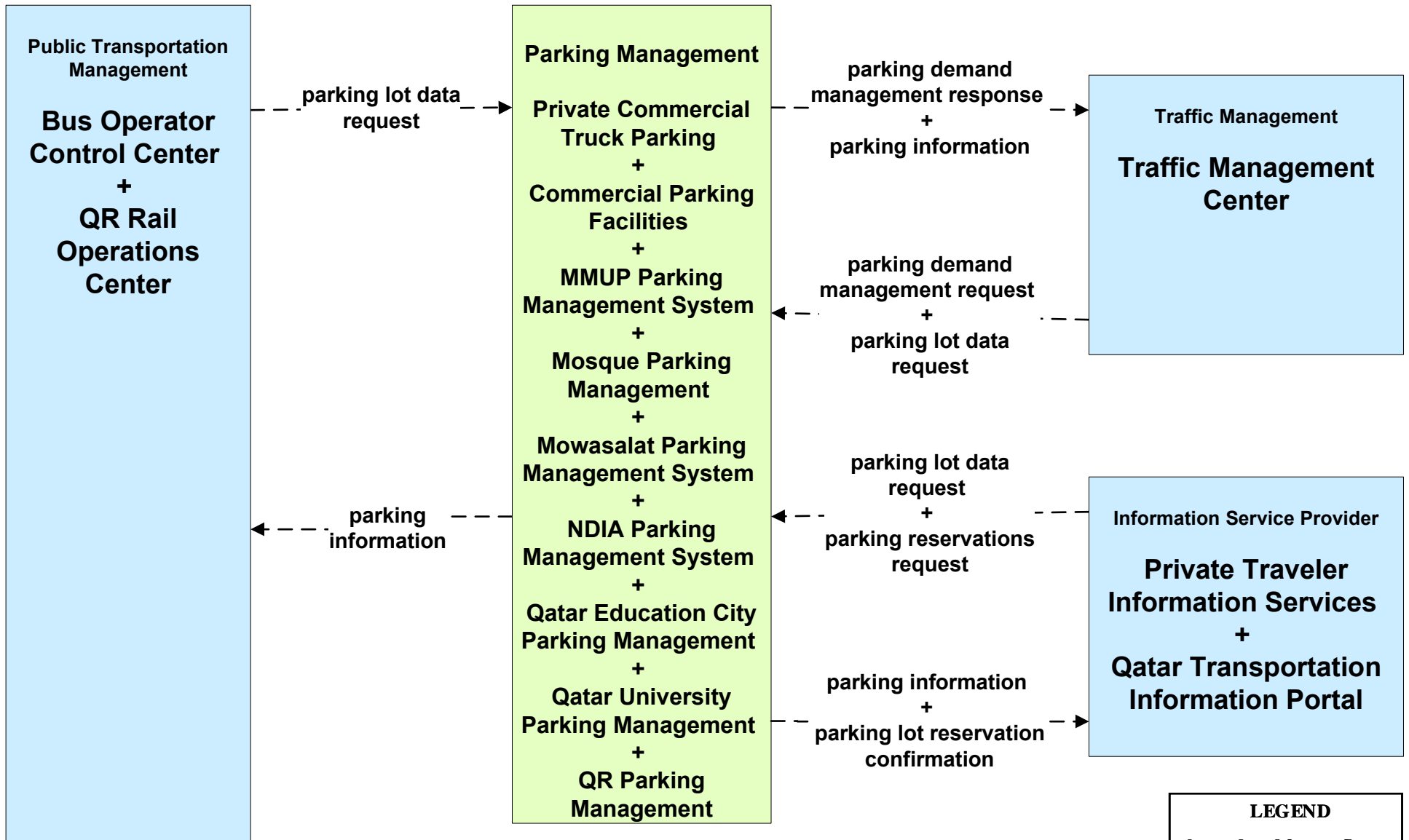
NDIA Land-Side Congestion Management Operations



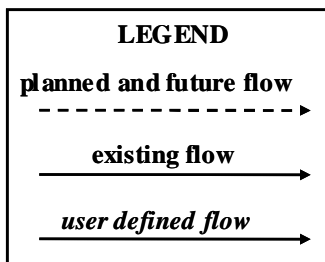
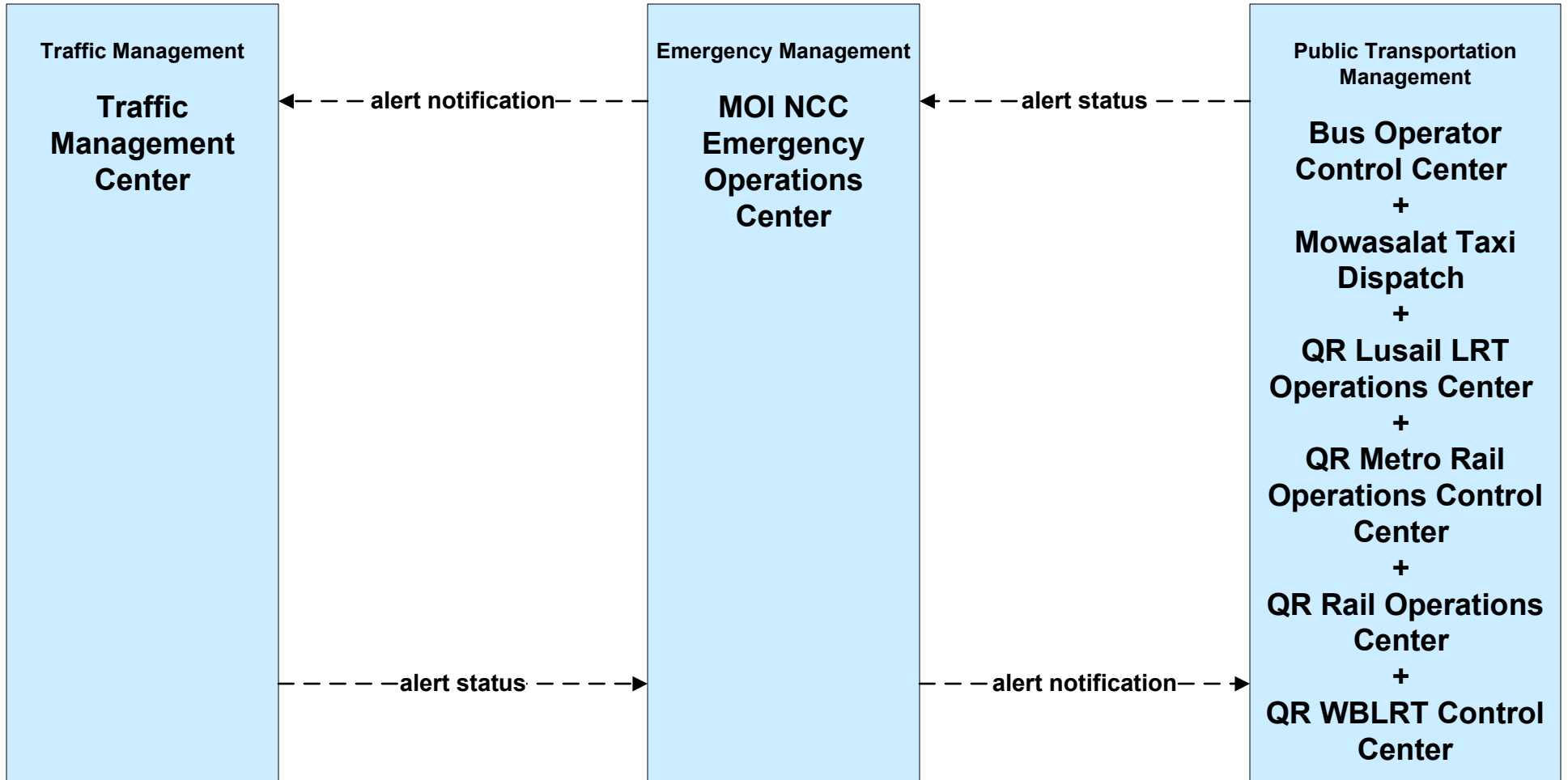
ATMS16 - Parking Facility Management Ashghal



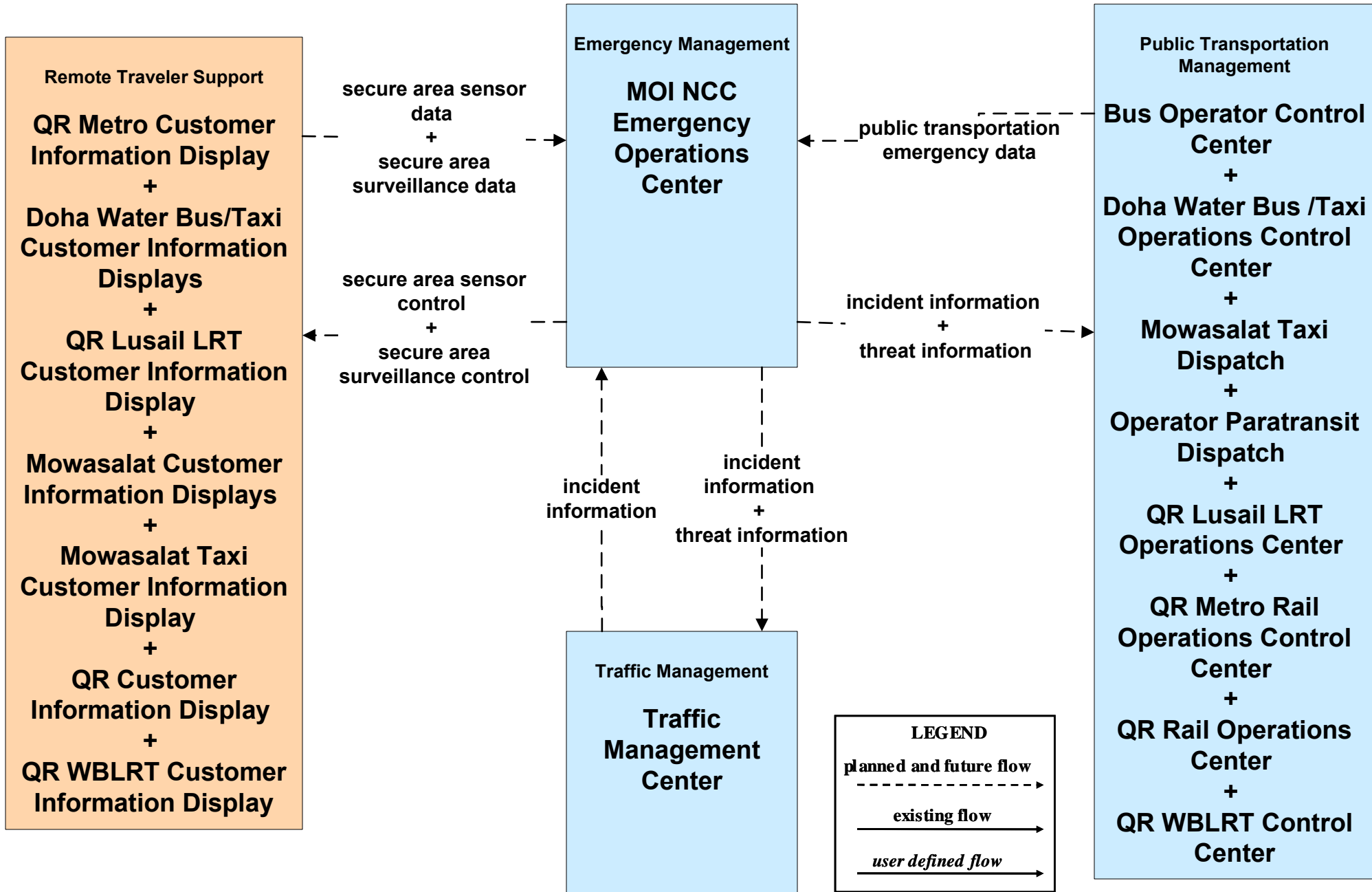
ATMS17 - Regional Parking Management



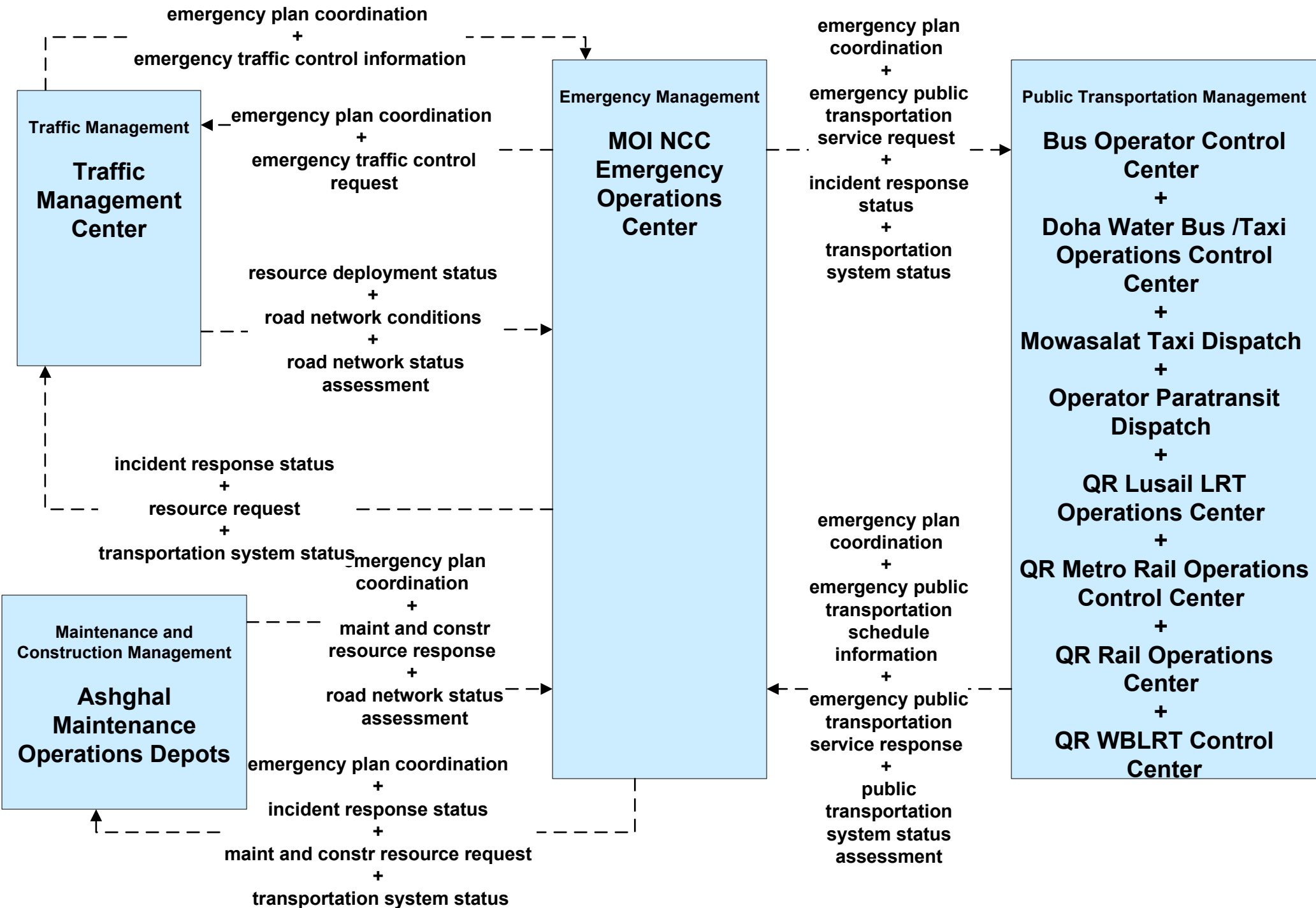
EM06 - Wide Area Alerts



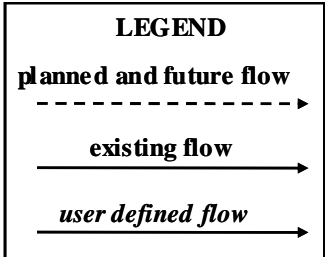
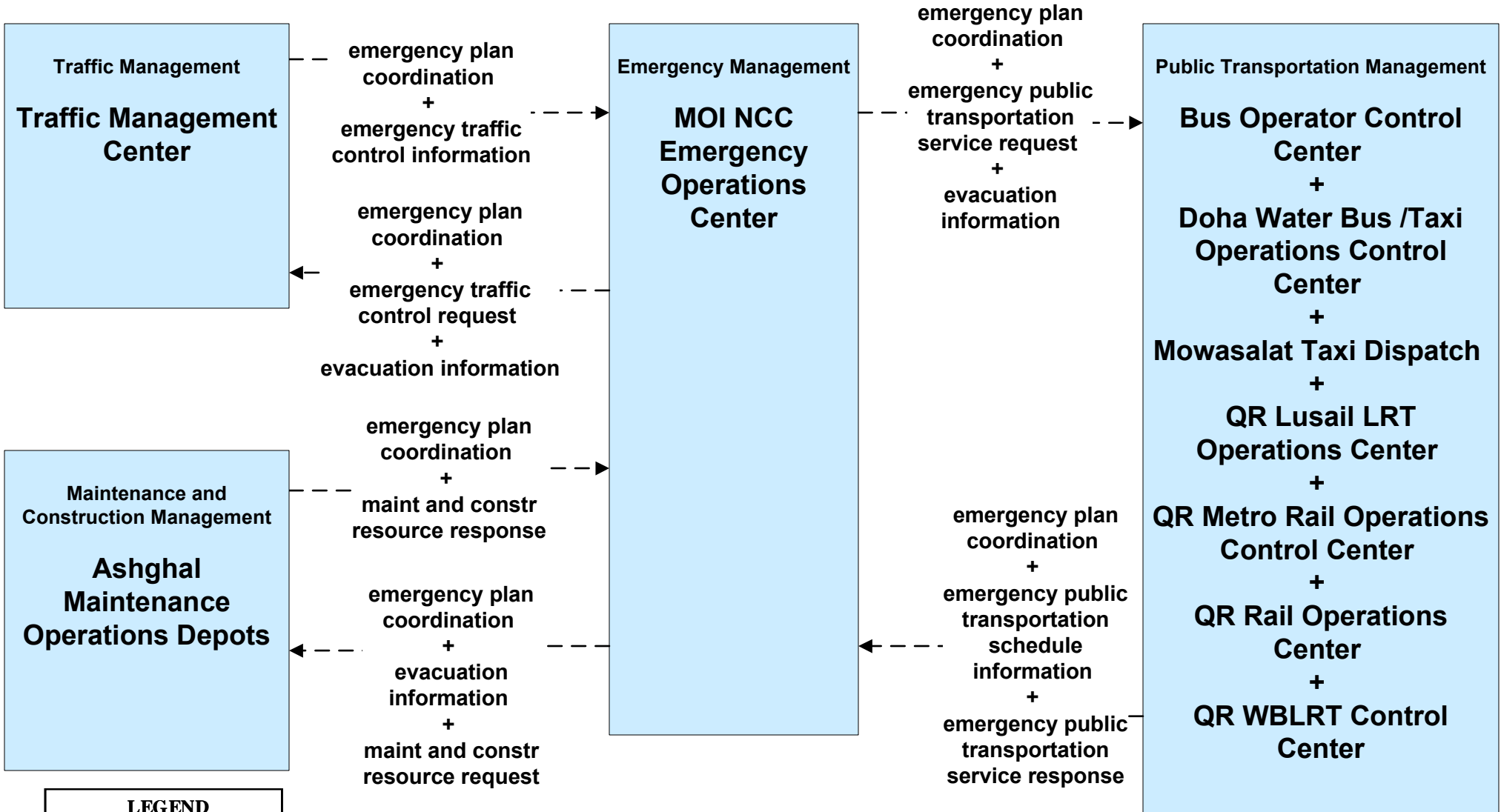
EM07 - Early Warning System



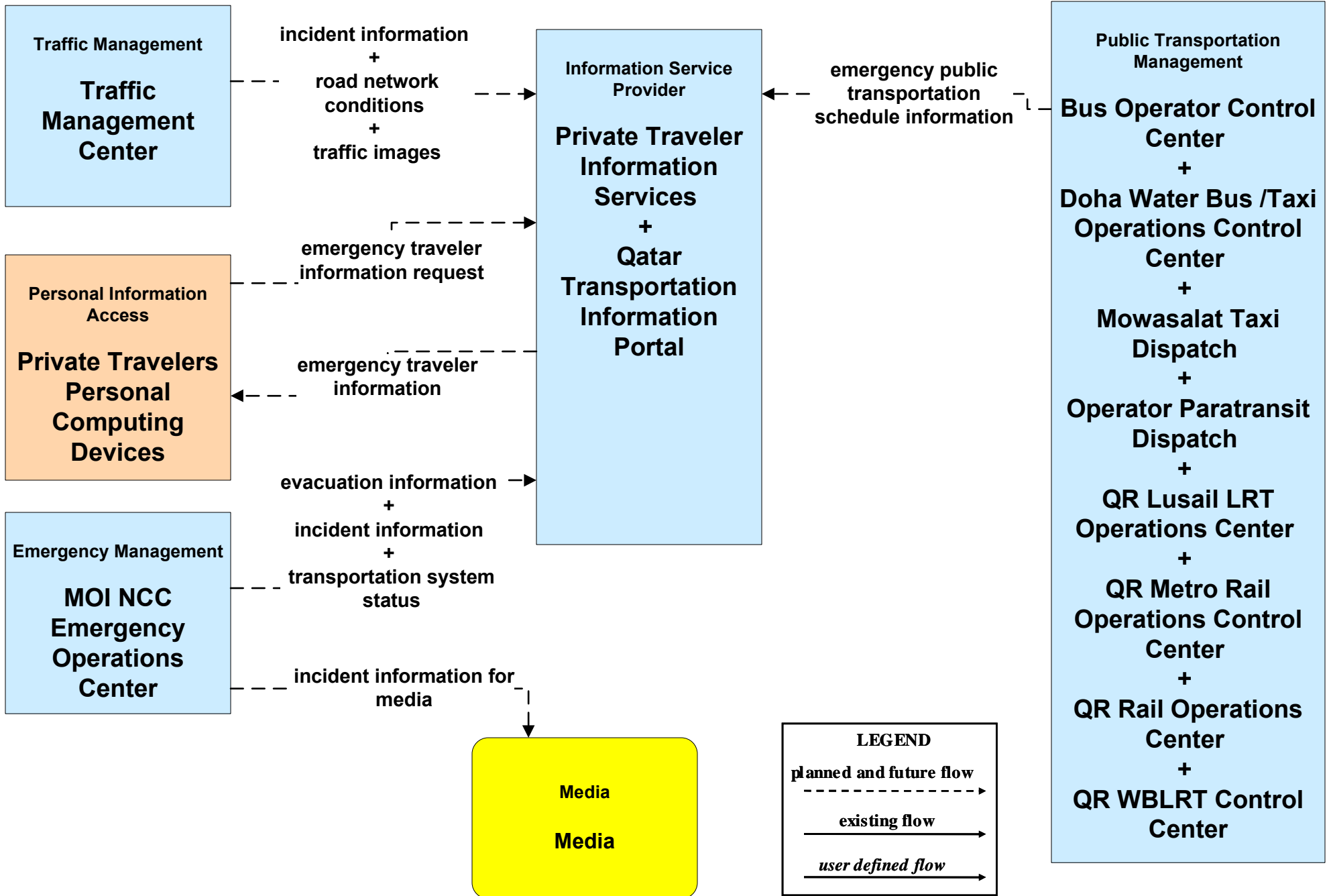
EM08 - Disaster Response



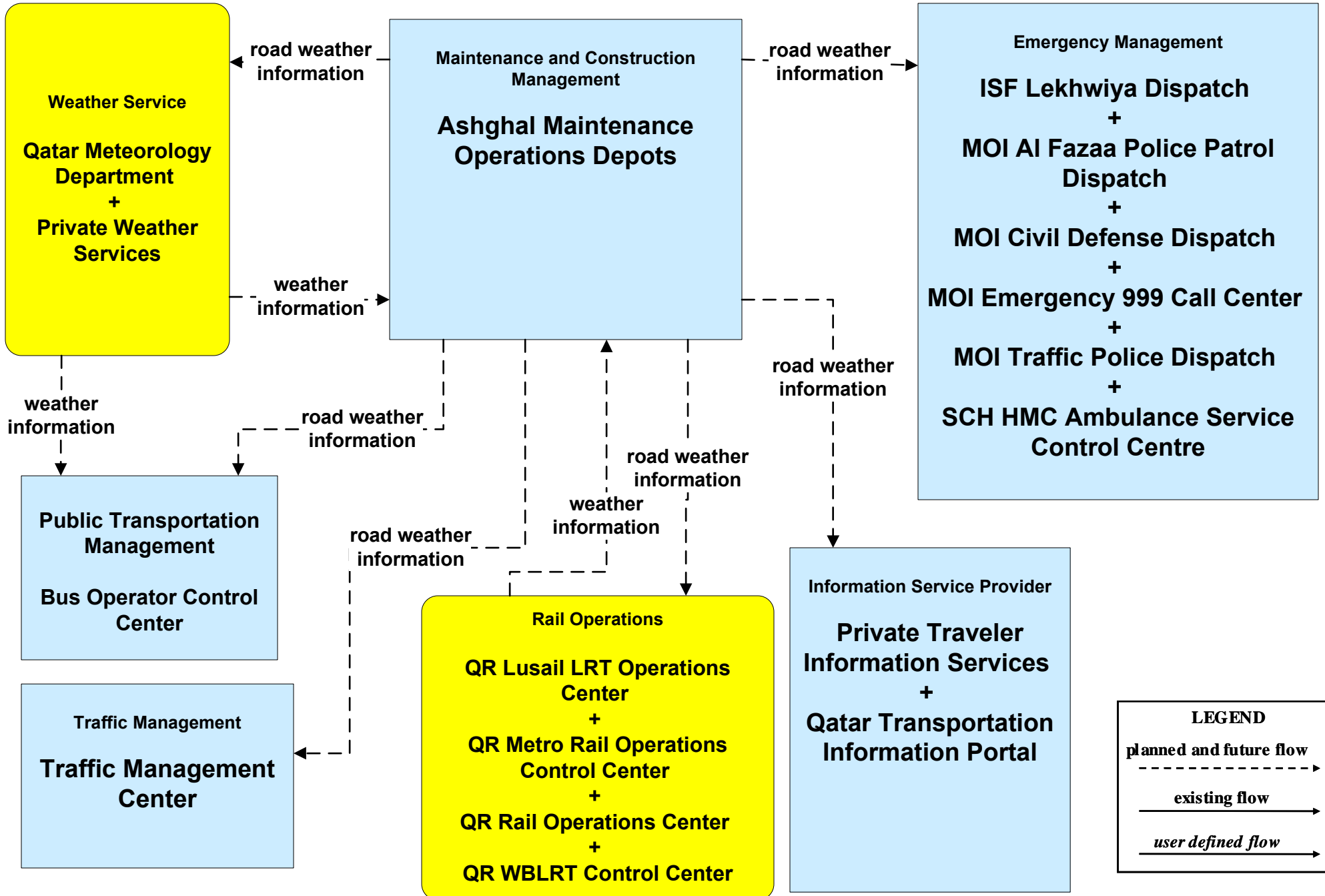
EM09 - Evacuation and Reentry Management



EM10 - Disaster Traveler Information



MC04 - Weather Information Processing and Distribution



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

