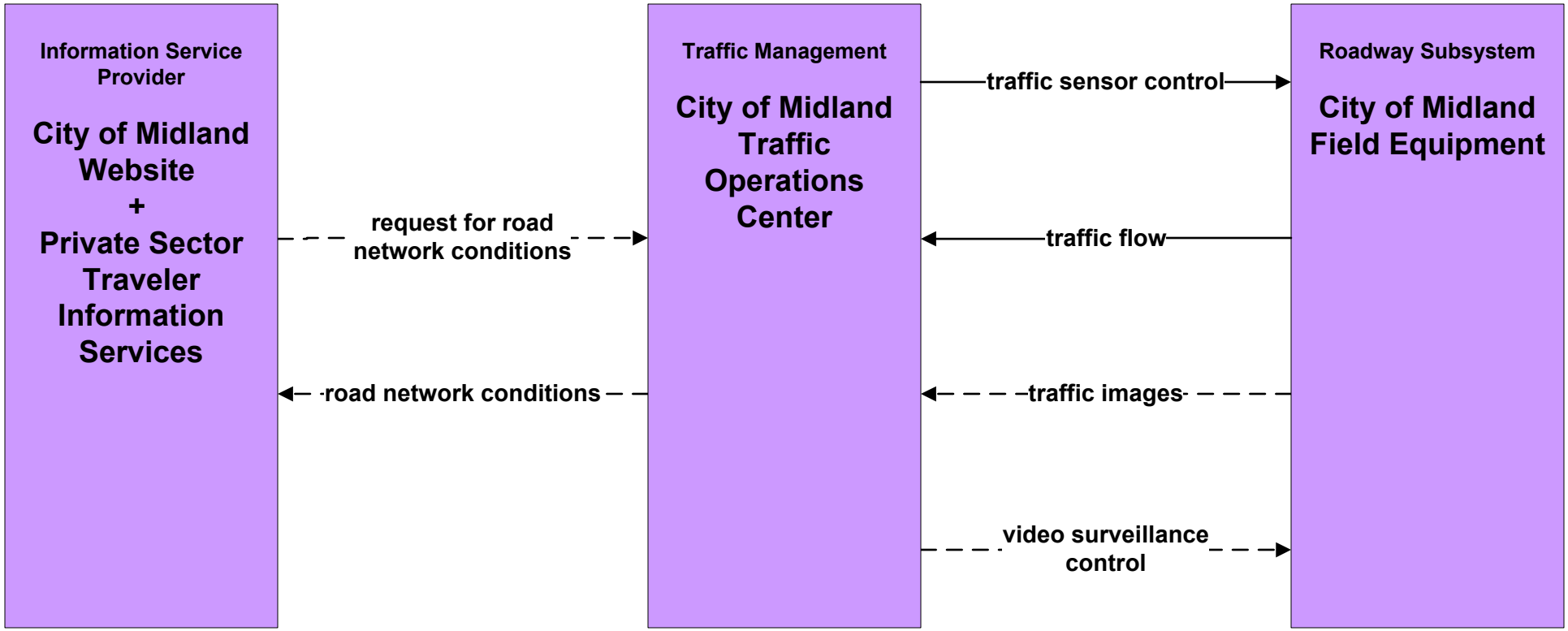
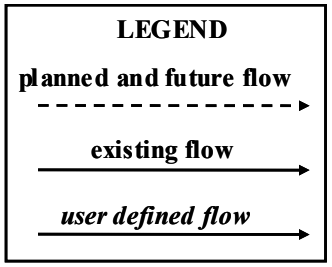
Permian Basin Regional ITS Architecture

Customized Market Package Diagrams

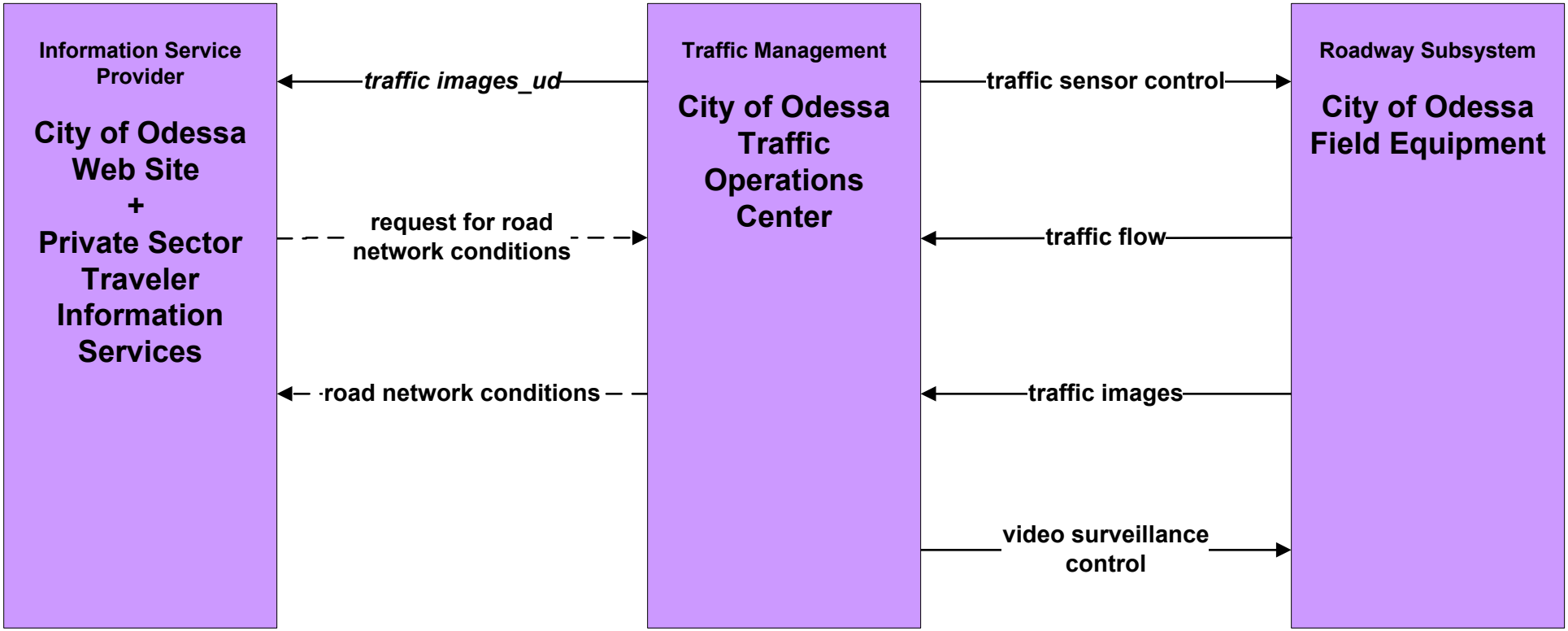
Advanced Traffic Management Systems (ATMS)

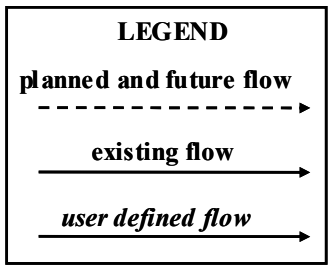
ATMS01 - Network Surveillance
City of Midland Traffic Operations Center



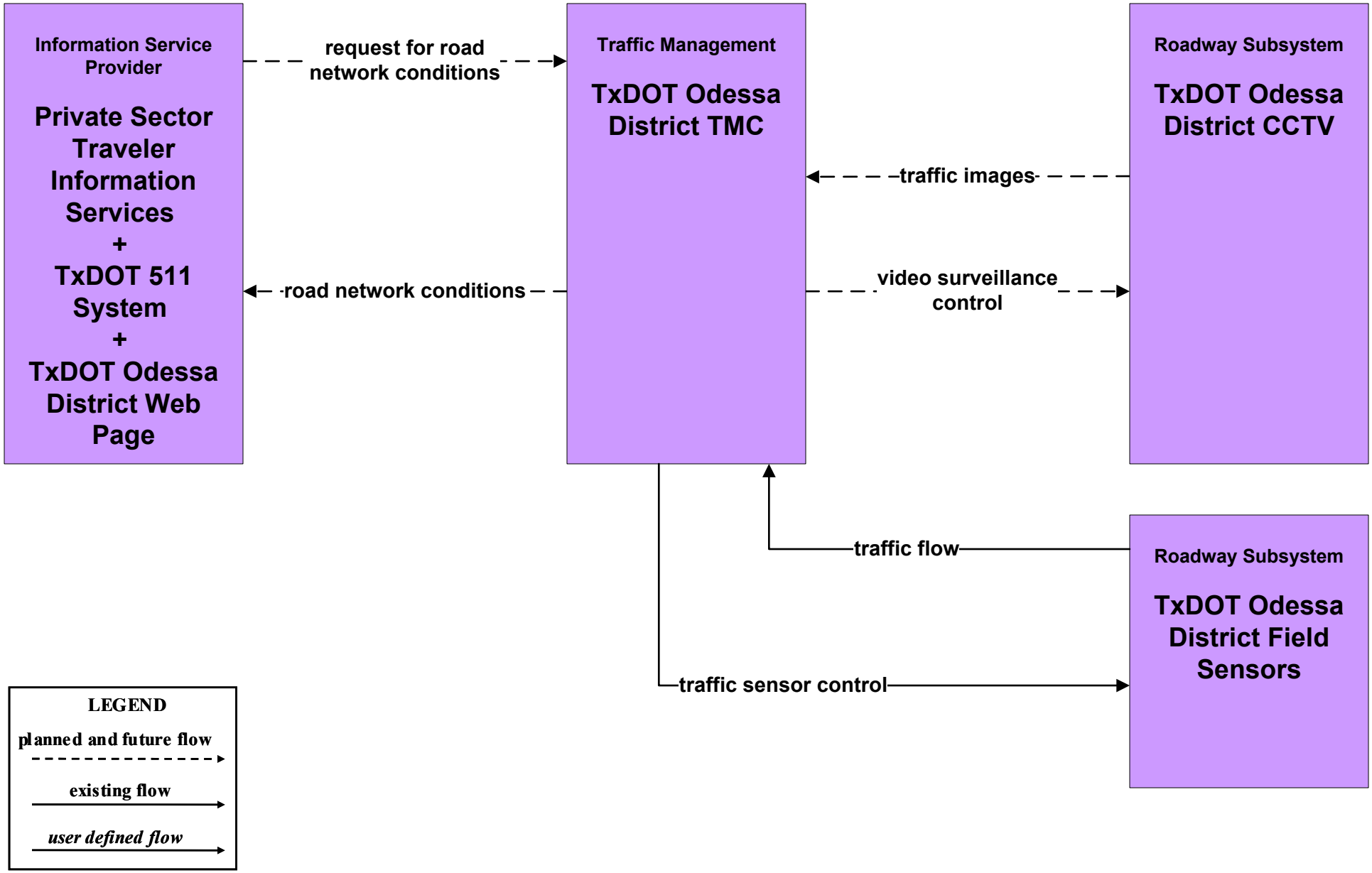


ATMS01 - Network Surveillance
City of Odessa Traffic Operations Center

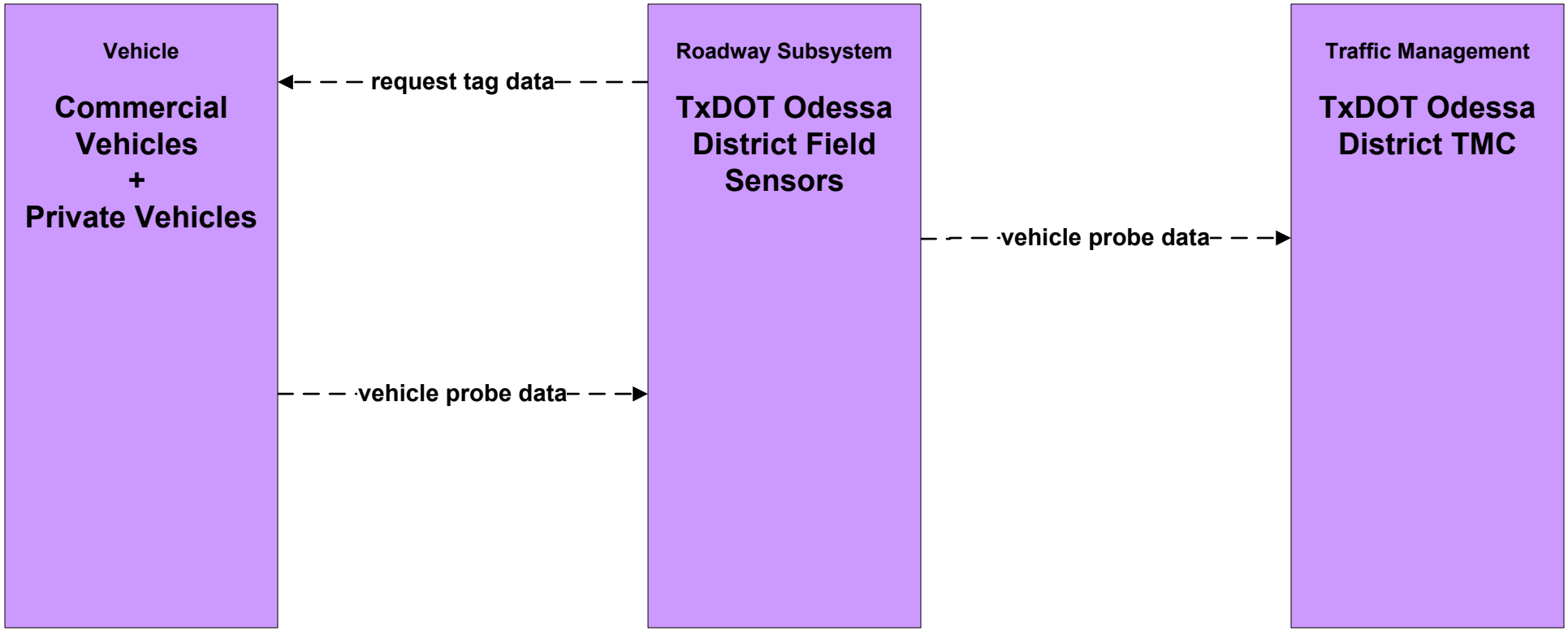


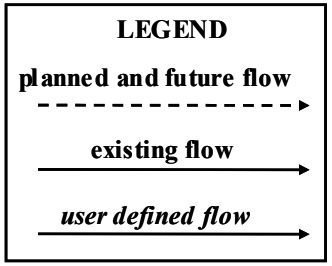


ATMS01 - Network Surveillance
TxDOT Odessa District TMC

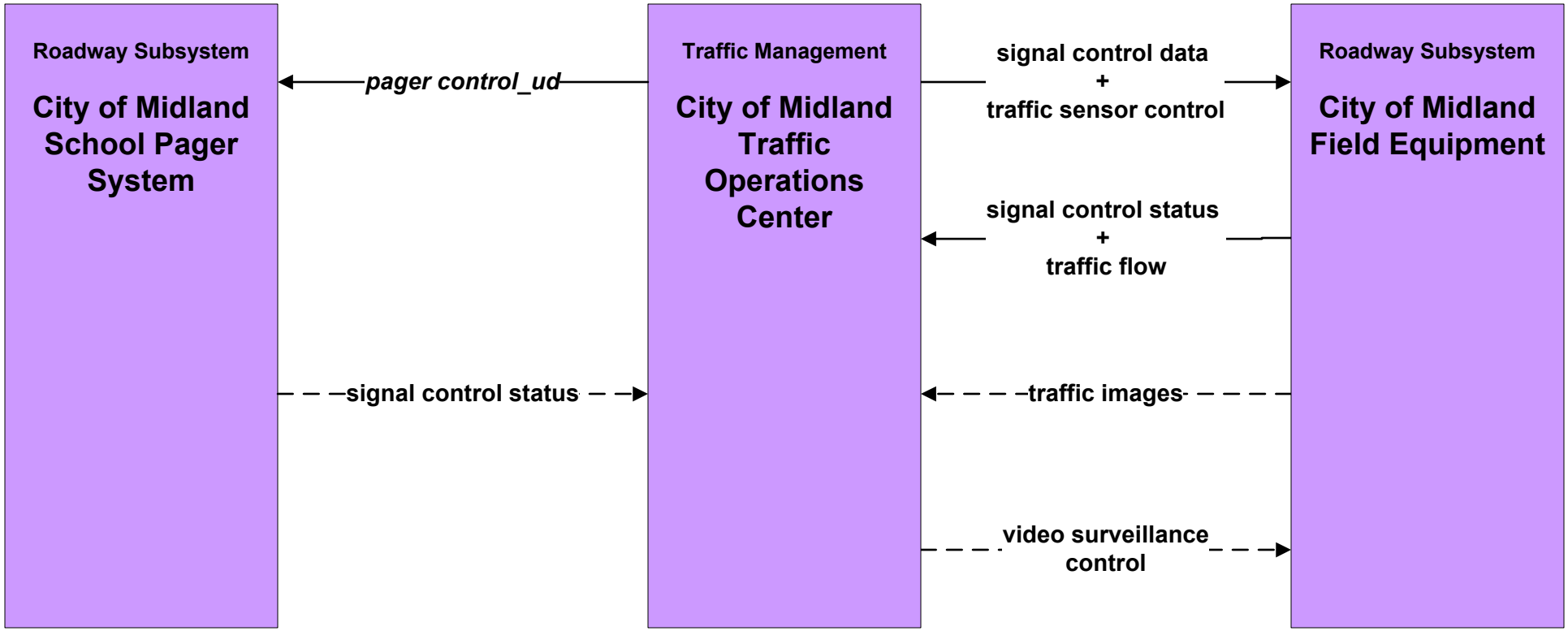


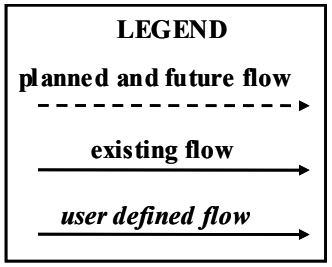
ATMS02 - Probe Surveillance
TxDOT Odessa District



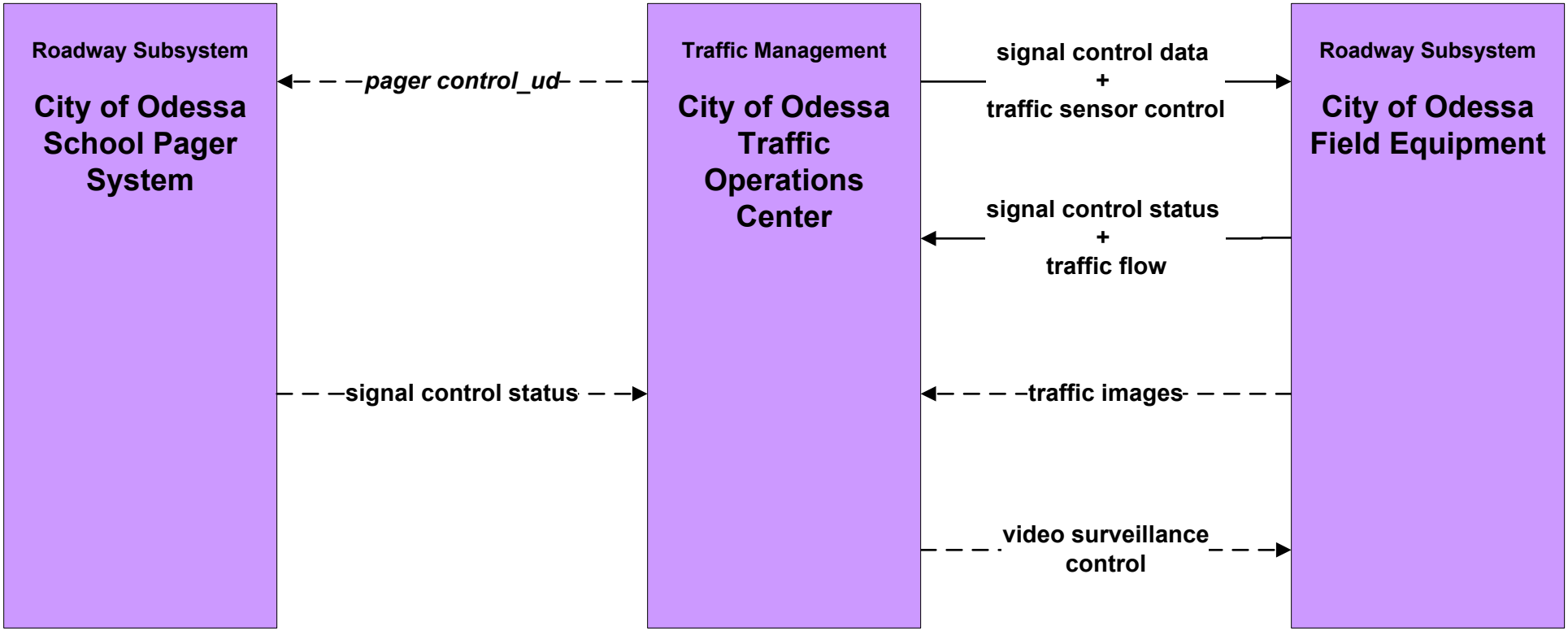


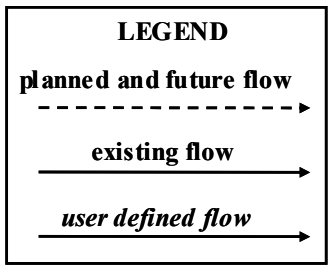
ATMS03 - Surface Street Control
City of Midland Traffic Operations Center



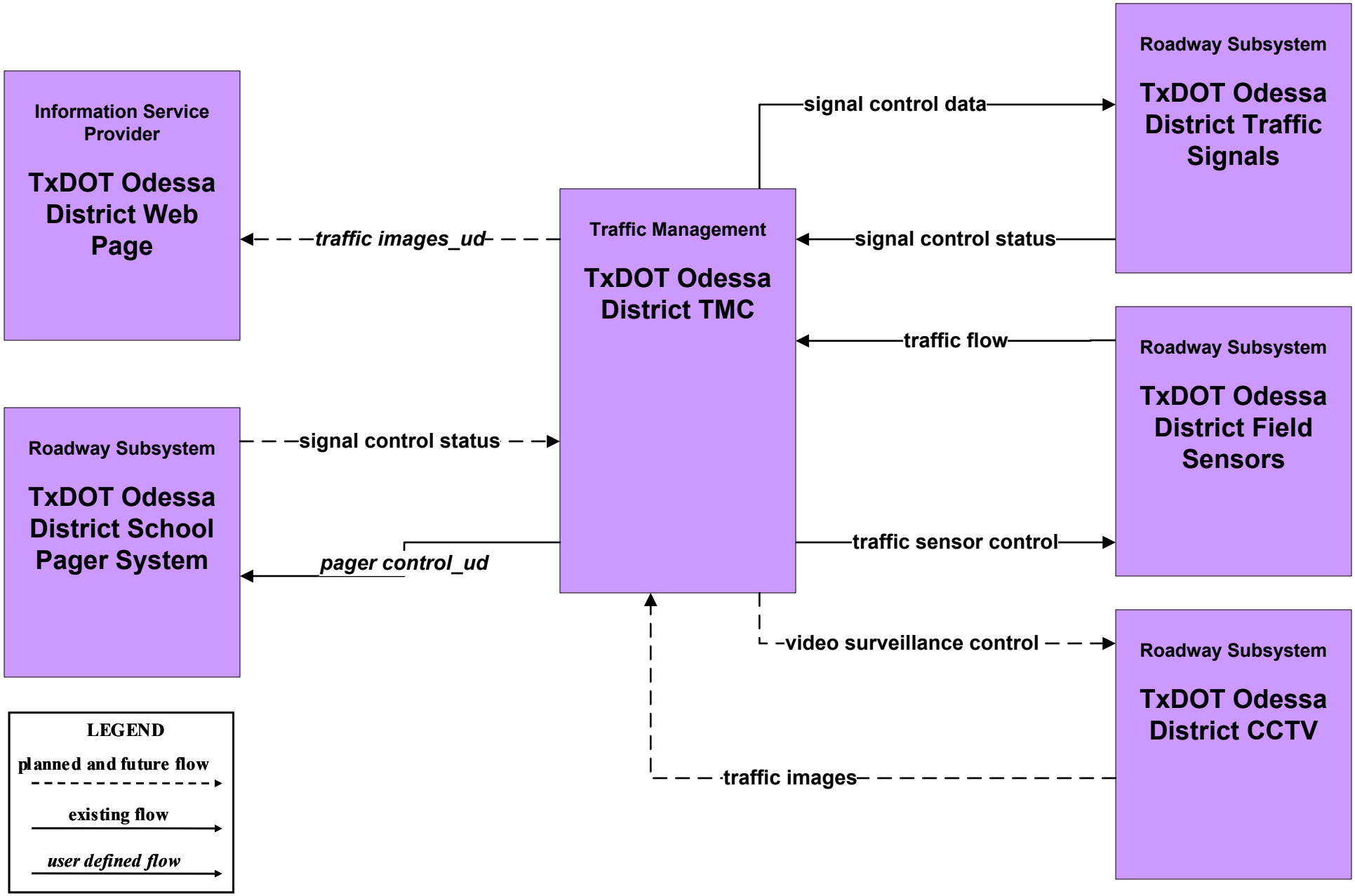


ATMS03 - Surface Street Control
City of Odessa Traffic Operations Center

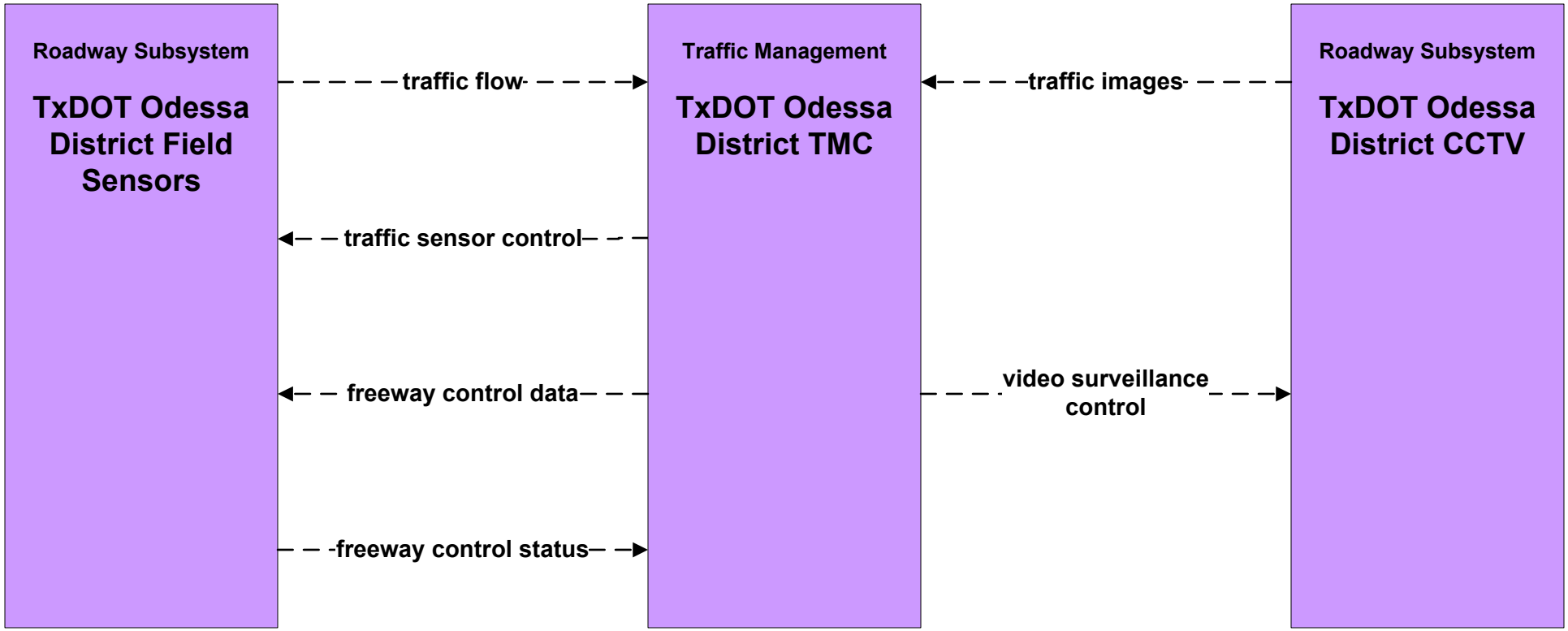


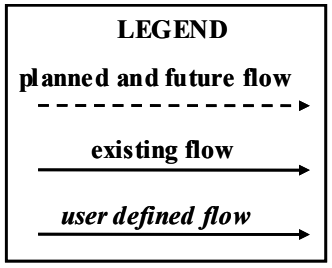


ATMS03 - Surface Street Control
TxDOT Odessa District TMC

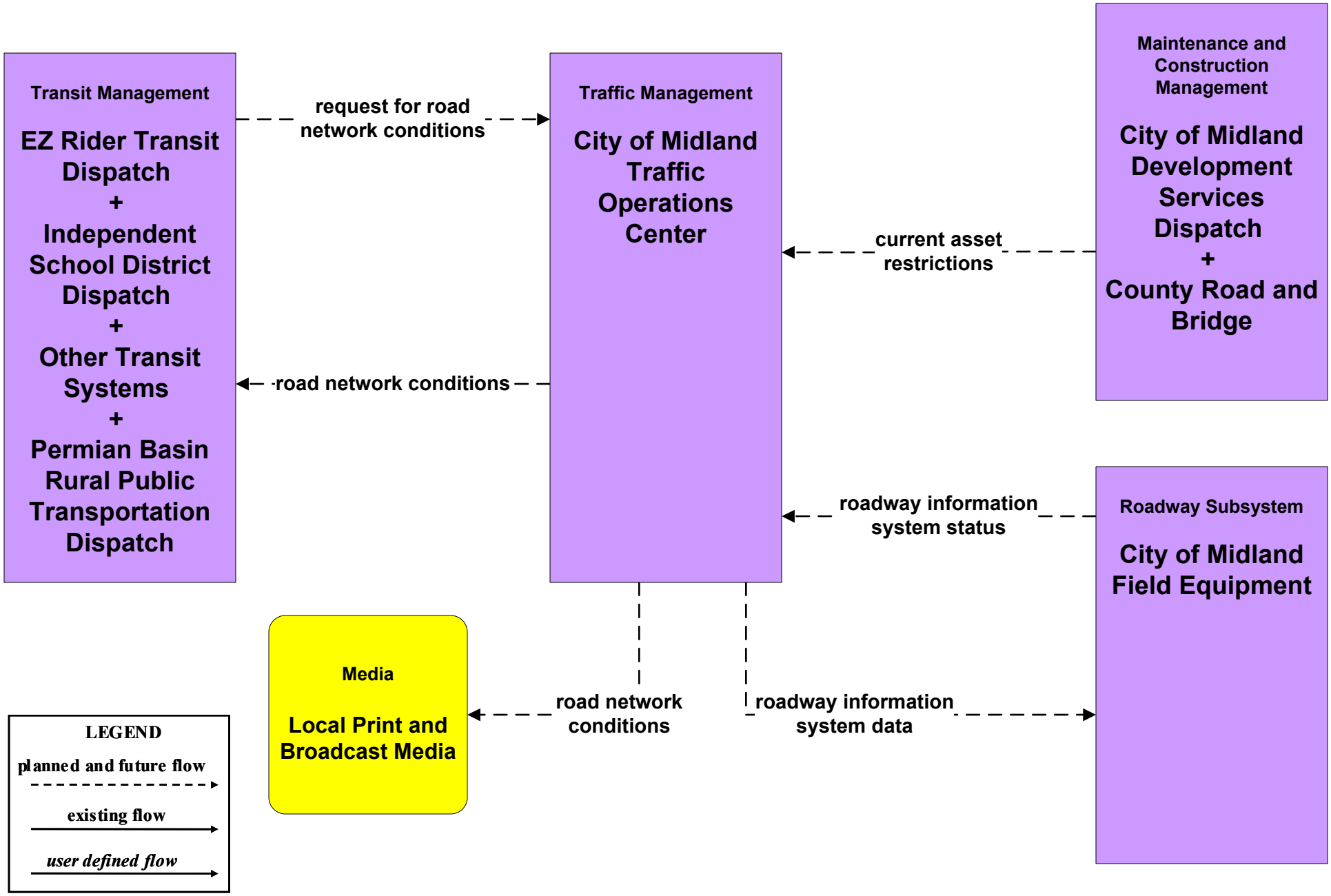


ATMS04 - Freeway Control
TxDOT Odessa District

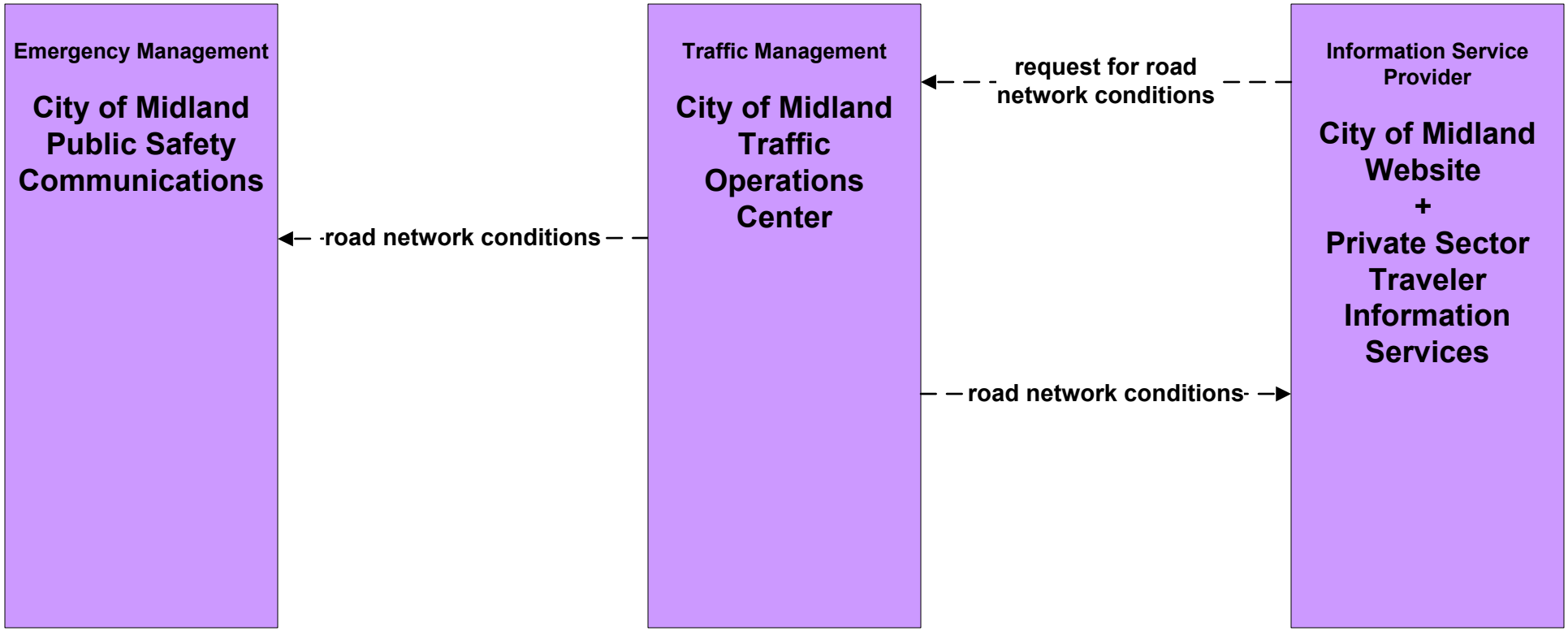




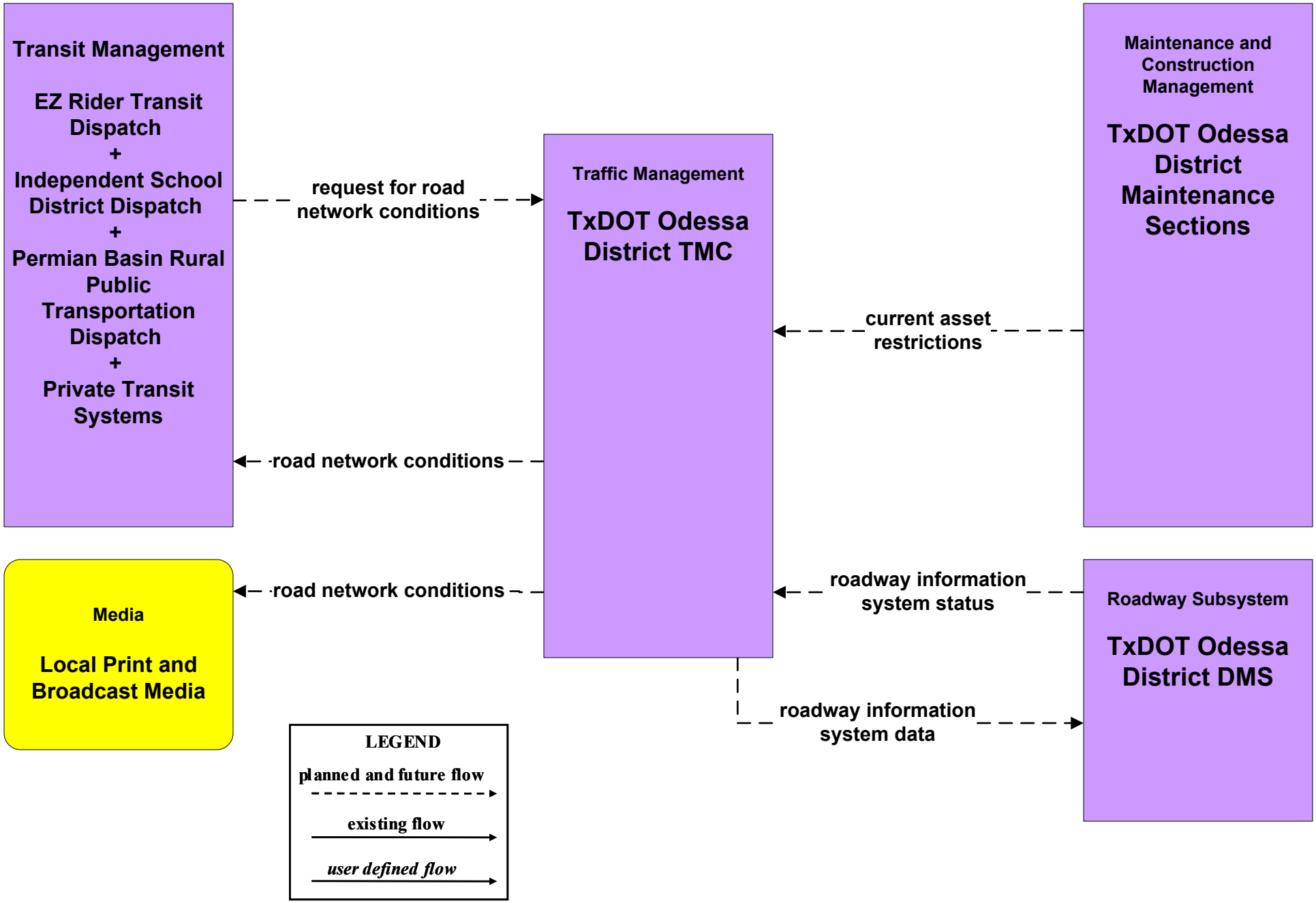
ATMS06 - Traffic Information Dissemination
City of Midland Traffic Operations Center



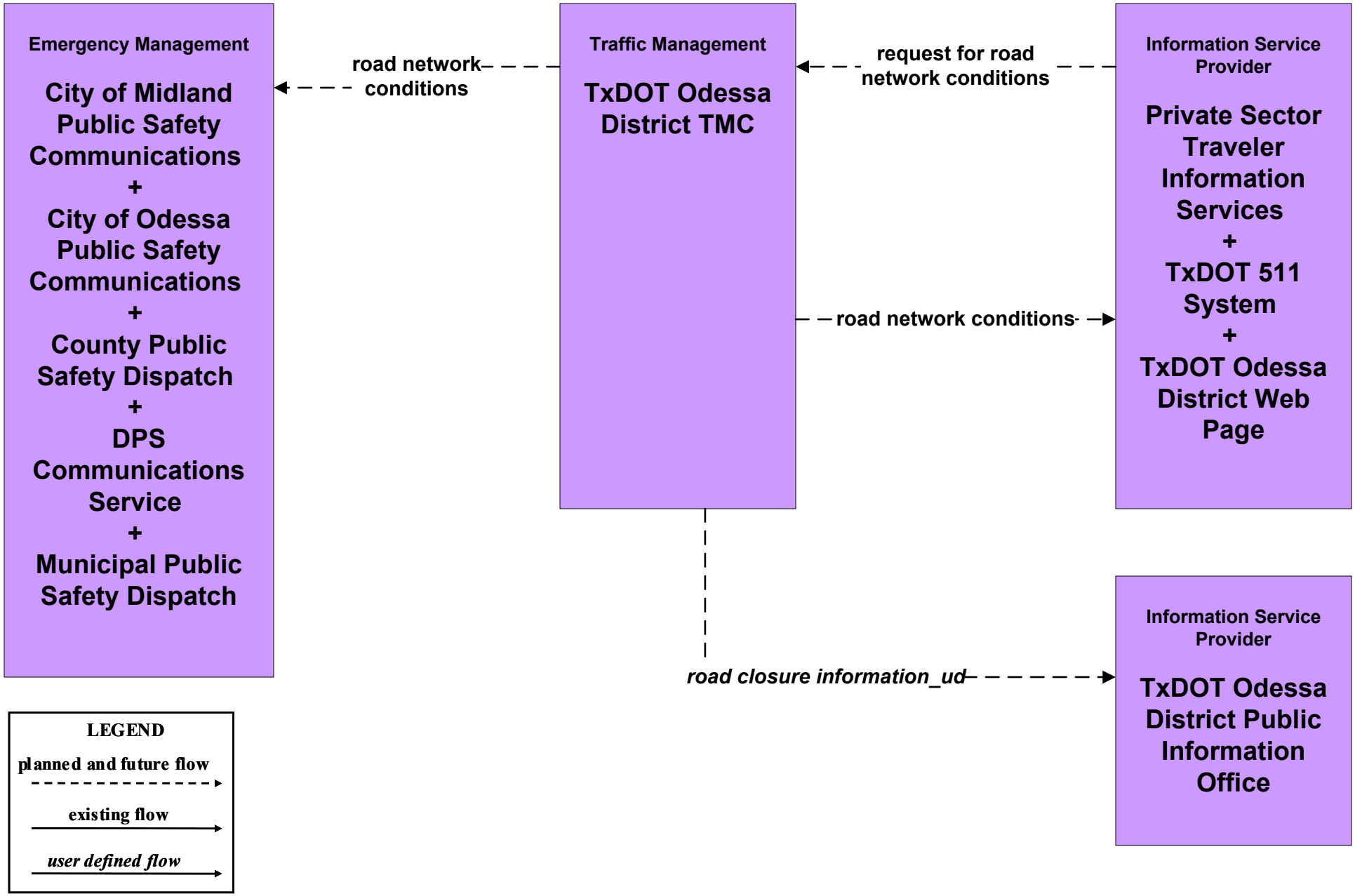
ATMS06 - Traffic Information Dissemination
City of Midland Traffic Operations Center (TM to EM / ISP)



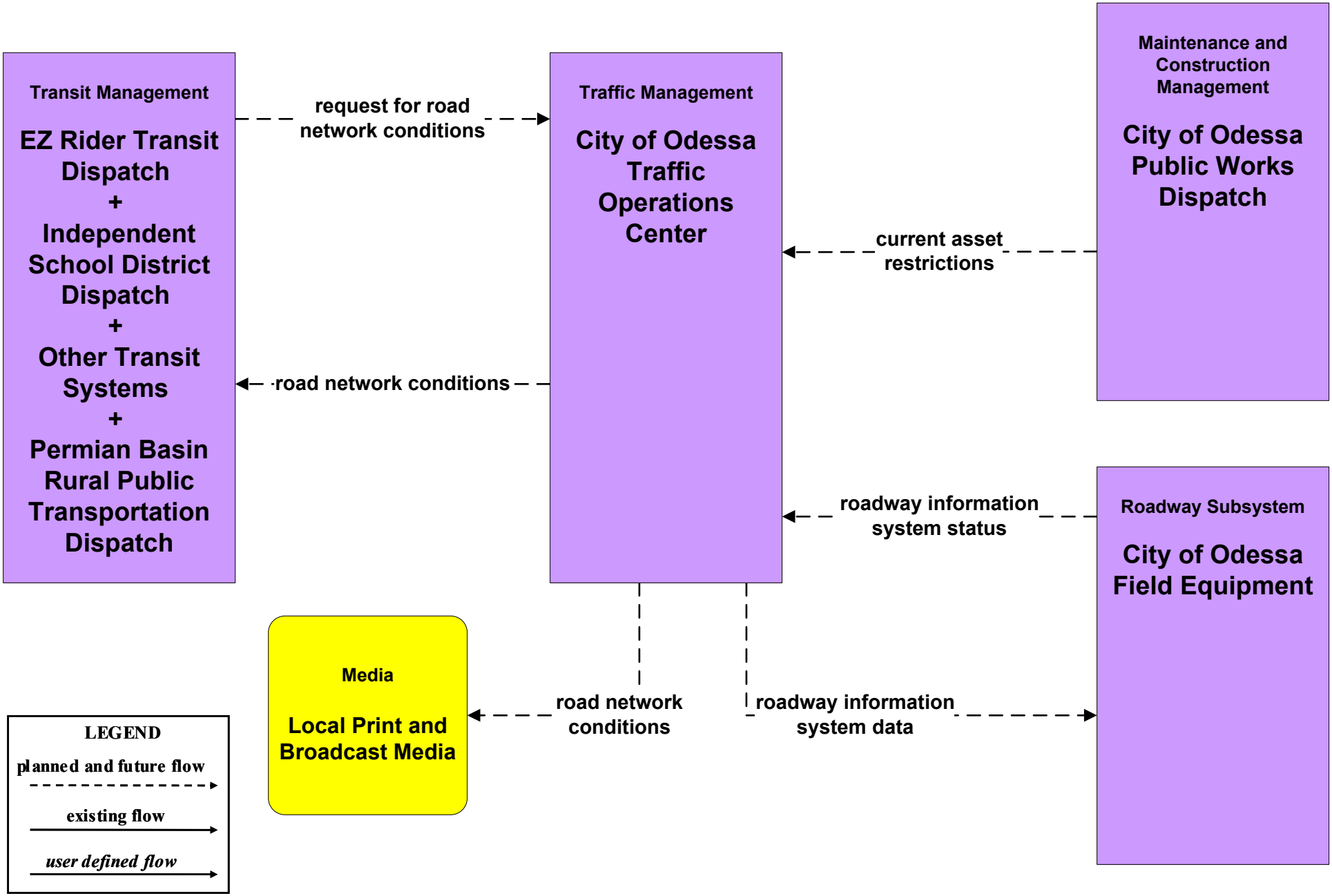
ATMS06 - Traffic Information Dissemination
TxDOT Odessa District TMC



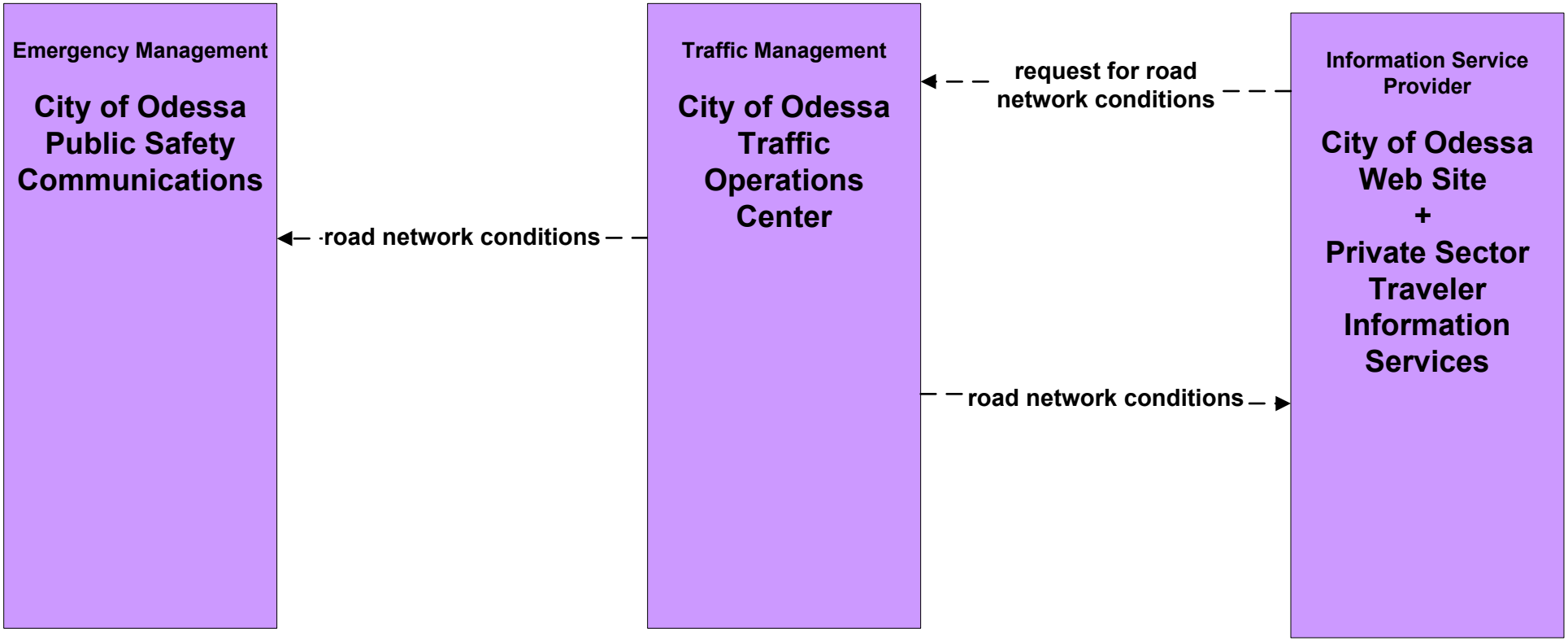
ATMS06 - Traffic Information Dissemination
TxDOT Odessa District Office (TM to EM / ISP)

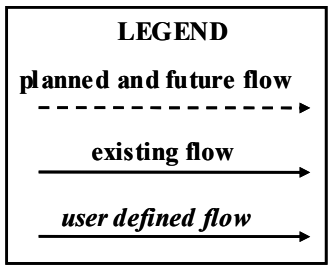


ATMS06 - Traffic Information Dissemination
City of Odessa Traffic Operations Center

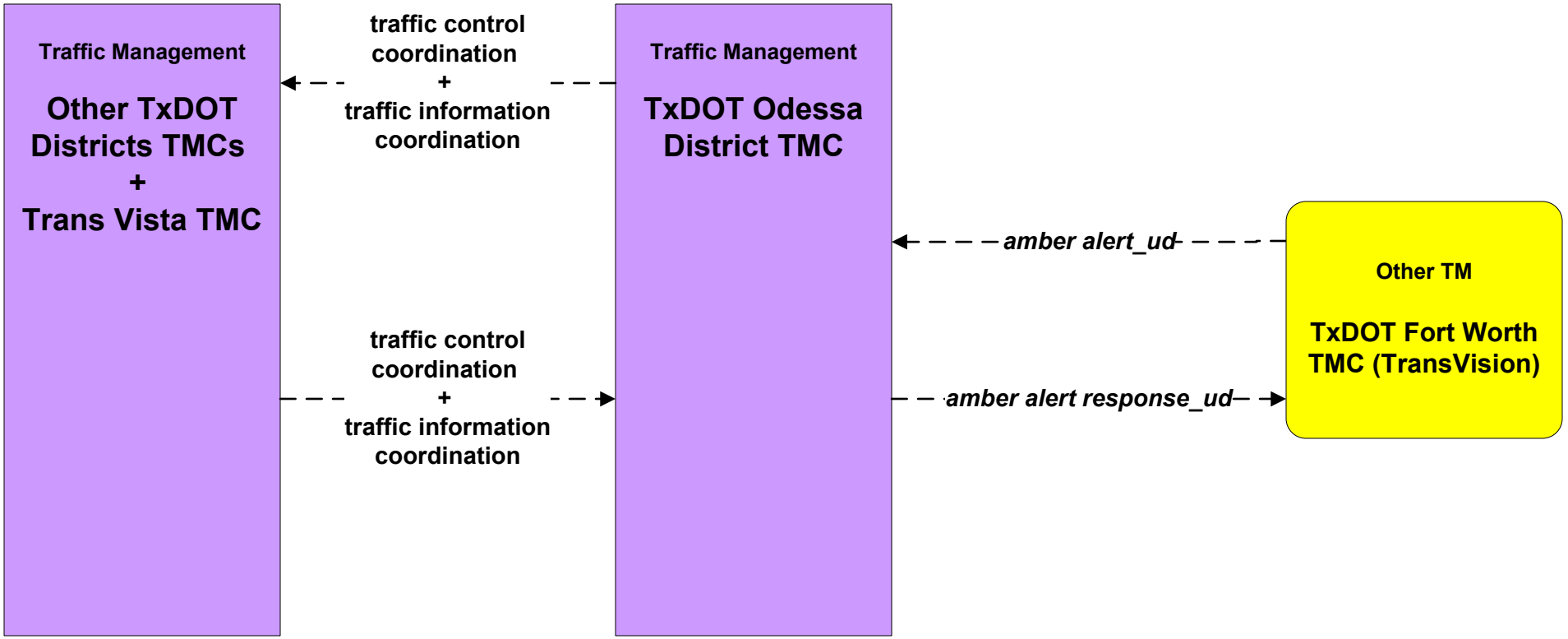


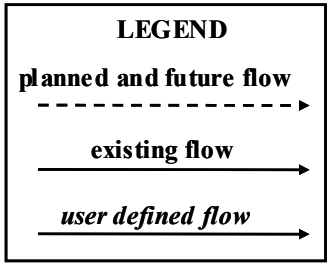
ATMS06 - Traffic Information Dissemination
City of Odessa Traffic Operations Center (TM to EM / ISP)



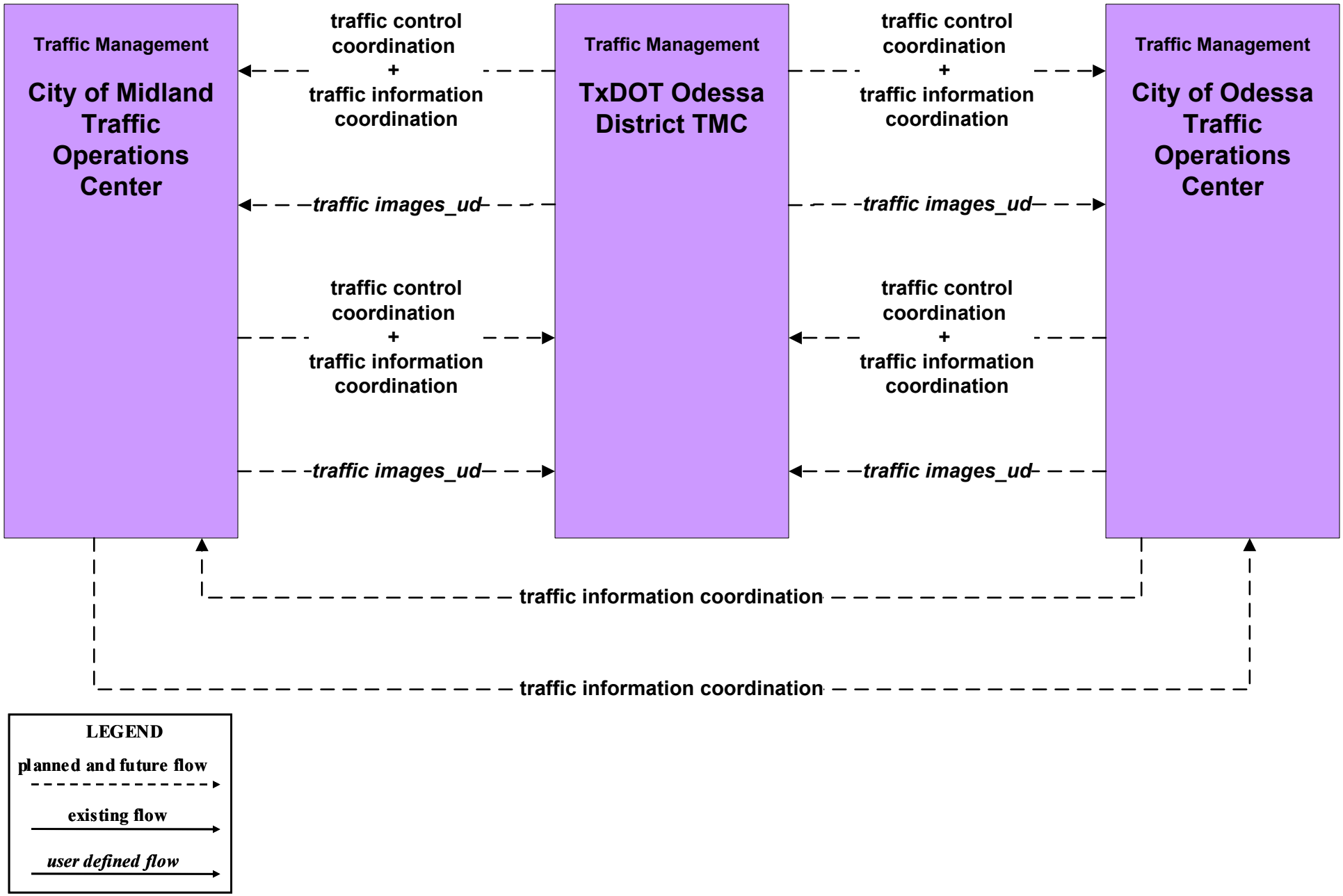


ATMS07 - Regional Traffic Control





ATMS07 - Regional Traffic Control



Incident Management Overview

ATMS08 Covered

Emergency Management *Traffic Management*

Emergency Management *Maintenance and Construction*

Traffic Management *Maintenance and Construction*

Maintenance and Construction *Maintenance and Construction*

Event Plans and Weather *Traffic Management & Emergency Management (see MCs for M&C)*

ATMS06, 03, 04, etc. Covered

Traffic Management *Roadway*

ATMS07 Covered

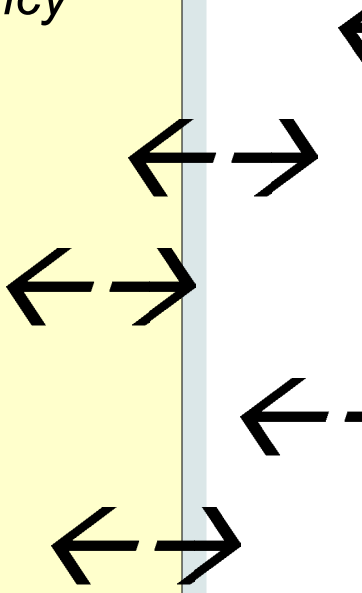
Traffic Management *Traffic Management*

EM1 Covered

Emergency Management *Emergency Management*

EM2 Covered

Emergency Vehicle Preemption

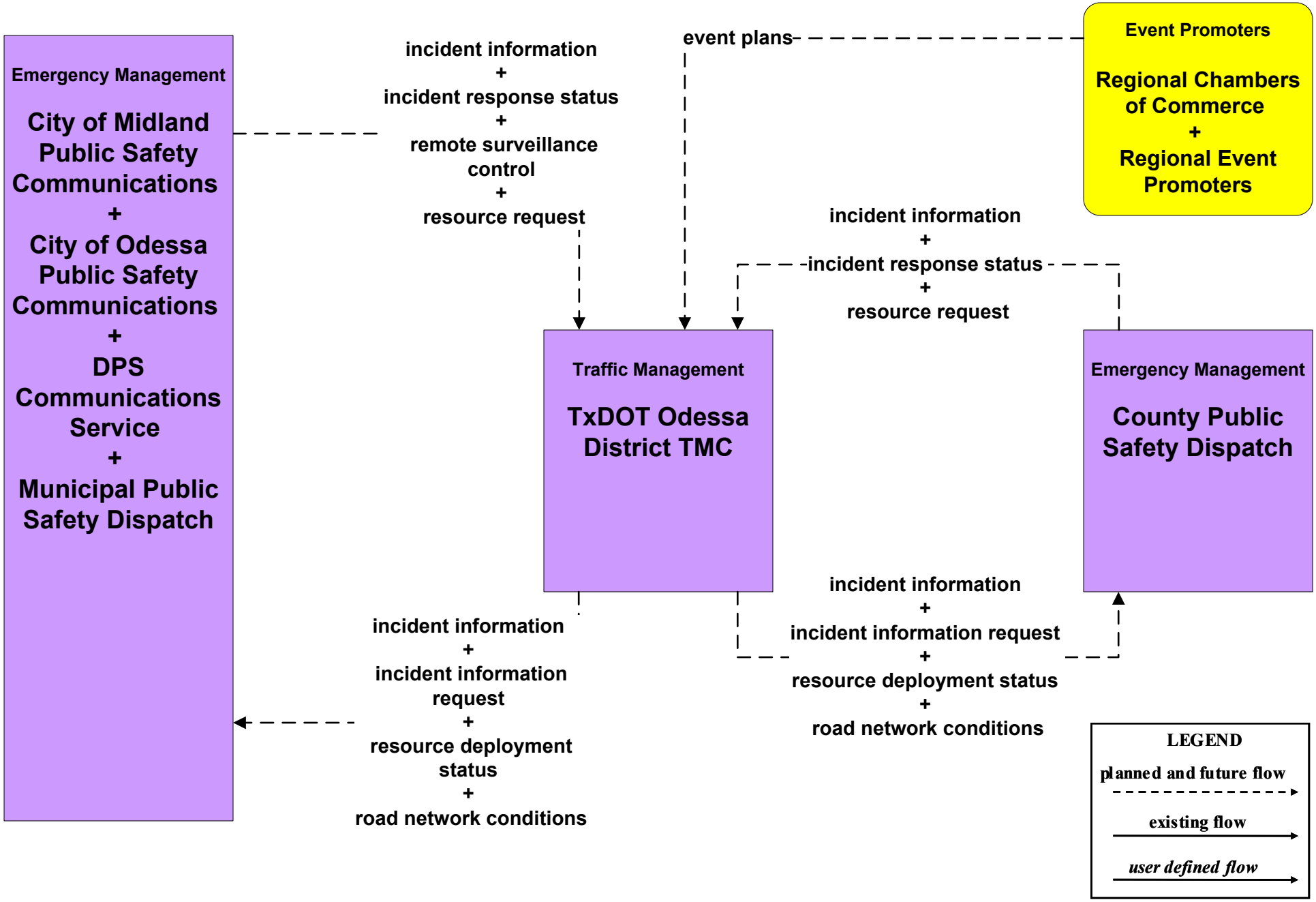


ATMS08 - Incident Management

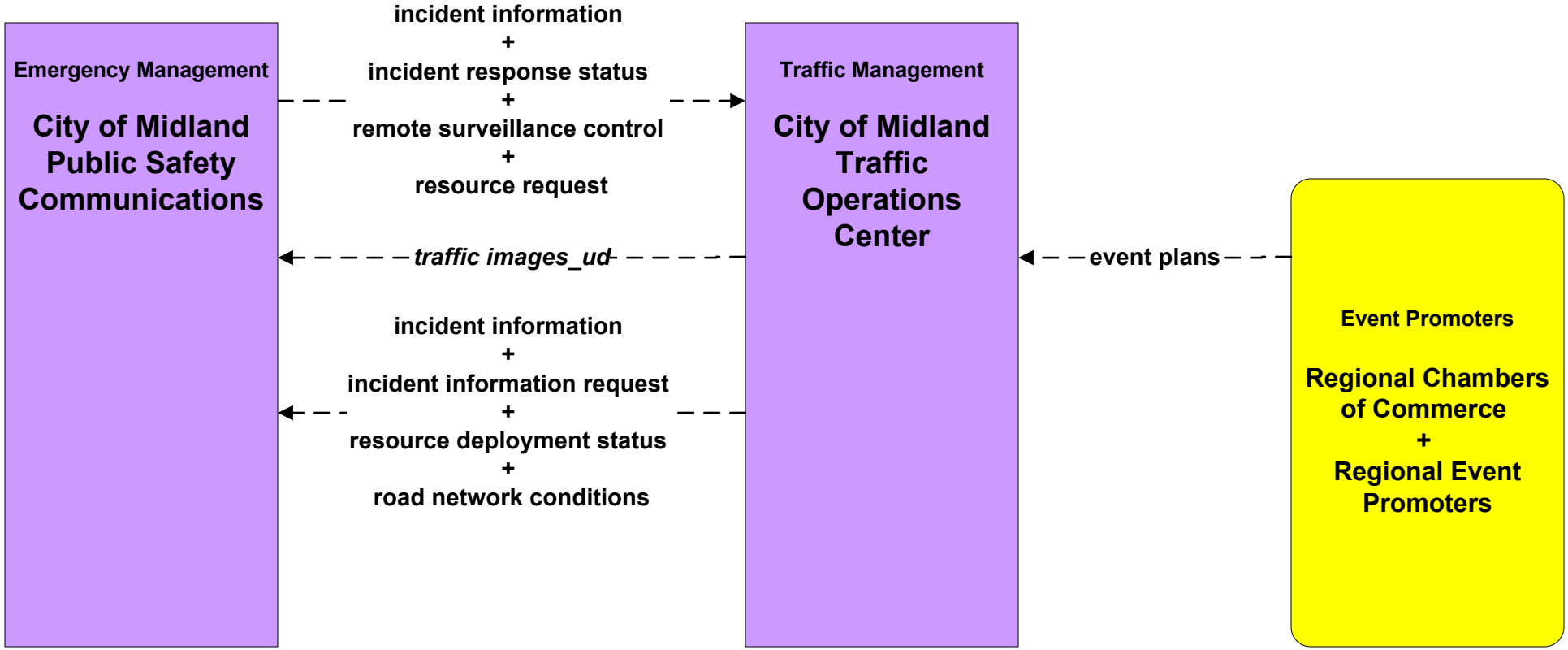
Emergency Management

Traffic Management

ATMS08 - Incident Management
TxDOT Odessa District TMC (TM to EM)



ATMS08 - Incident Management
City of Midland Traffic Operations Center (TM to EM)



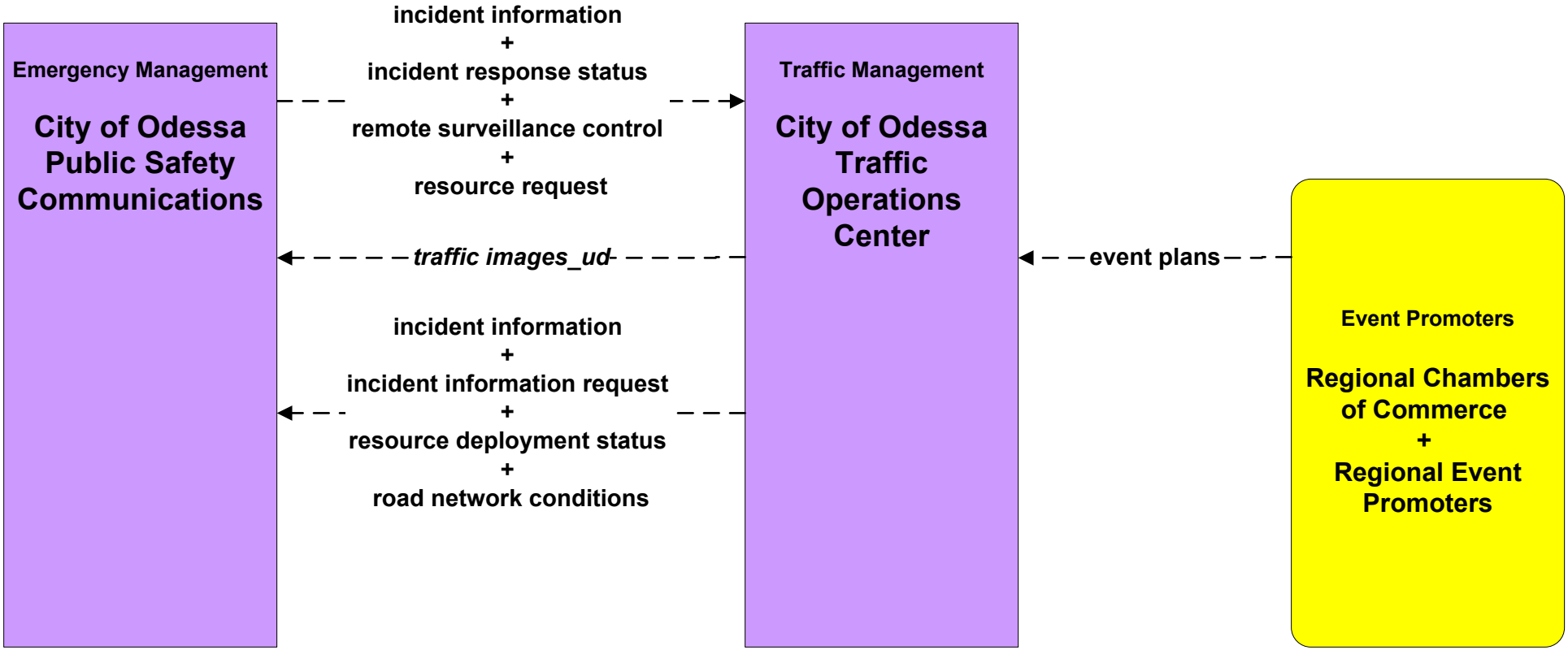
LEGEND

planned and future flow

existing flow

user defined flow

ATMS08 - Incident Management
City of Odessa Traffic Operations Center (TM to EM)



LEGEND

planned and future flow

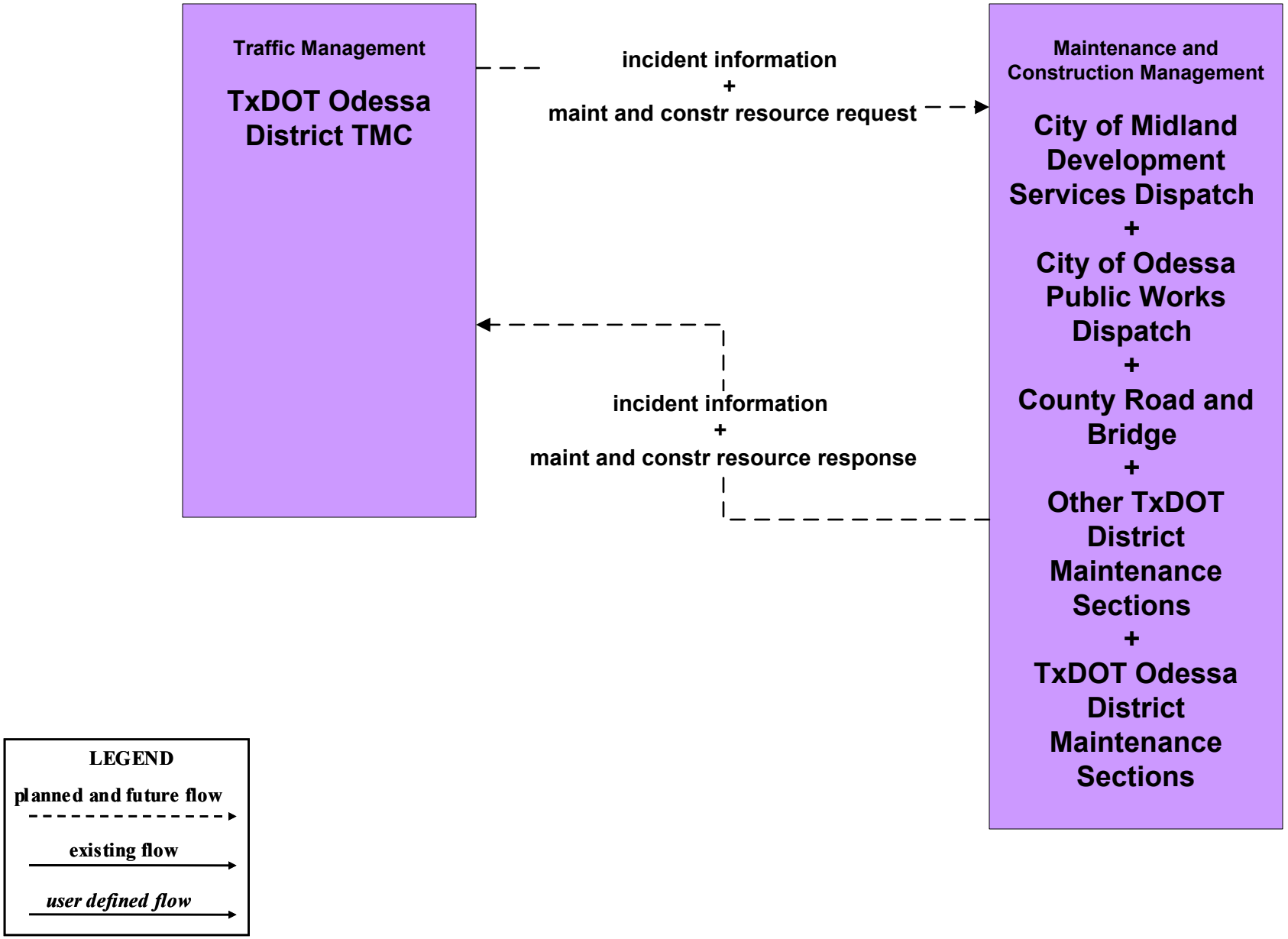
existing flow

user defined flow

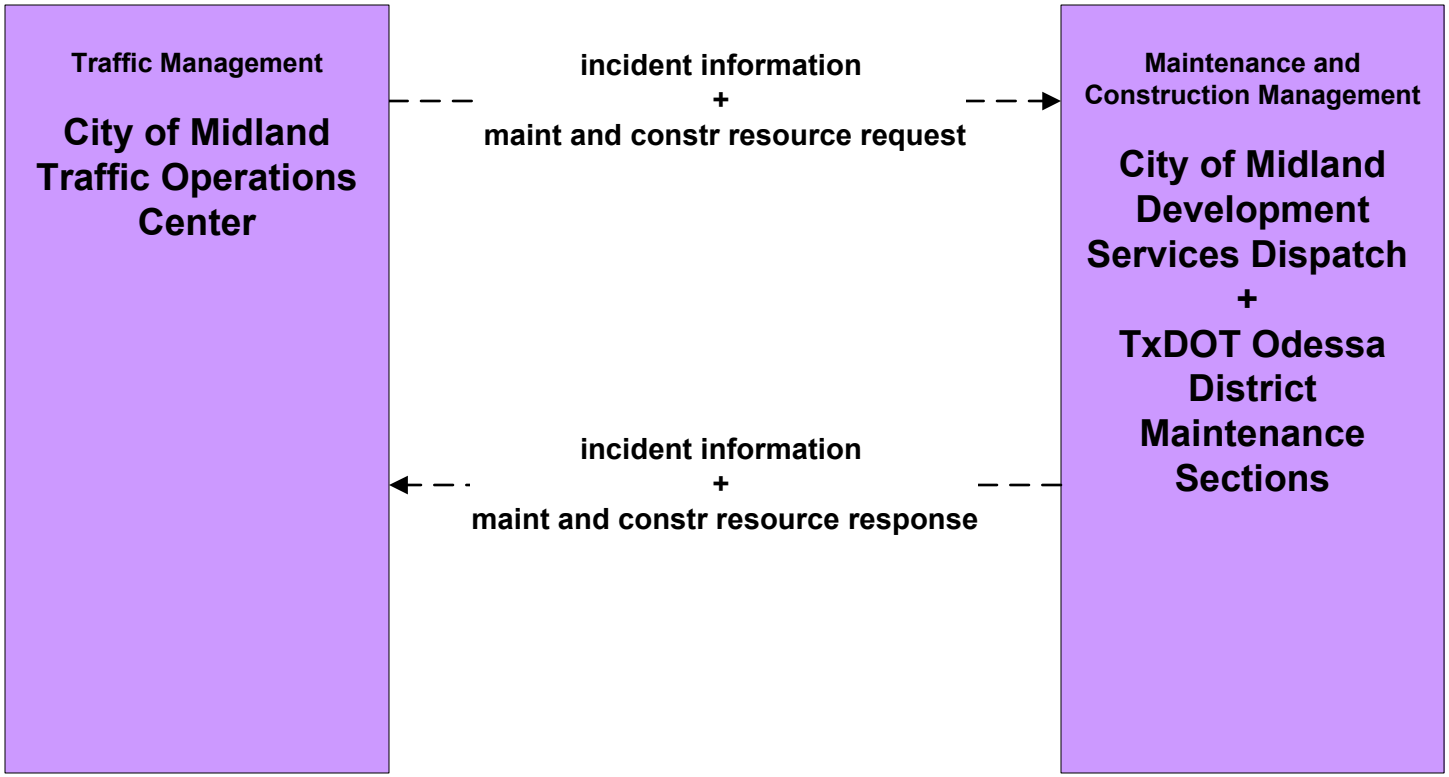
ATMS08 - Incident Management

Traffic Management *Maintenance and Construction Management*

ATMS08 - Incident Management
TxDOT Odessa District TMC (TM to MCM)



ATMS08 - Incident Management
City of Midland Traffic Operations Center (TM to MCM)



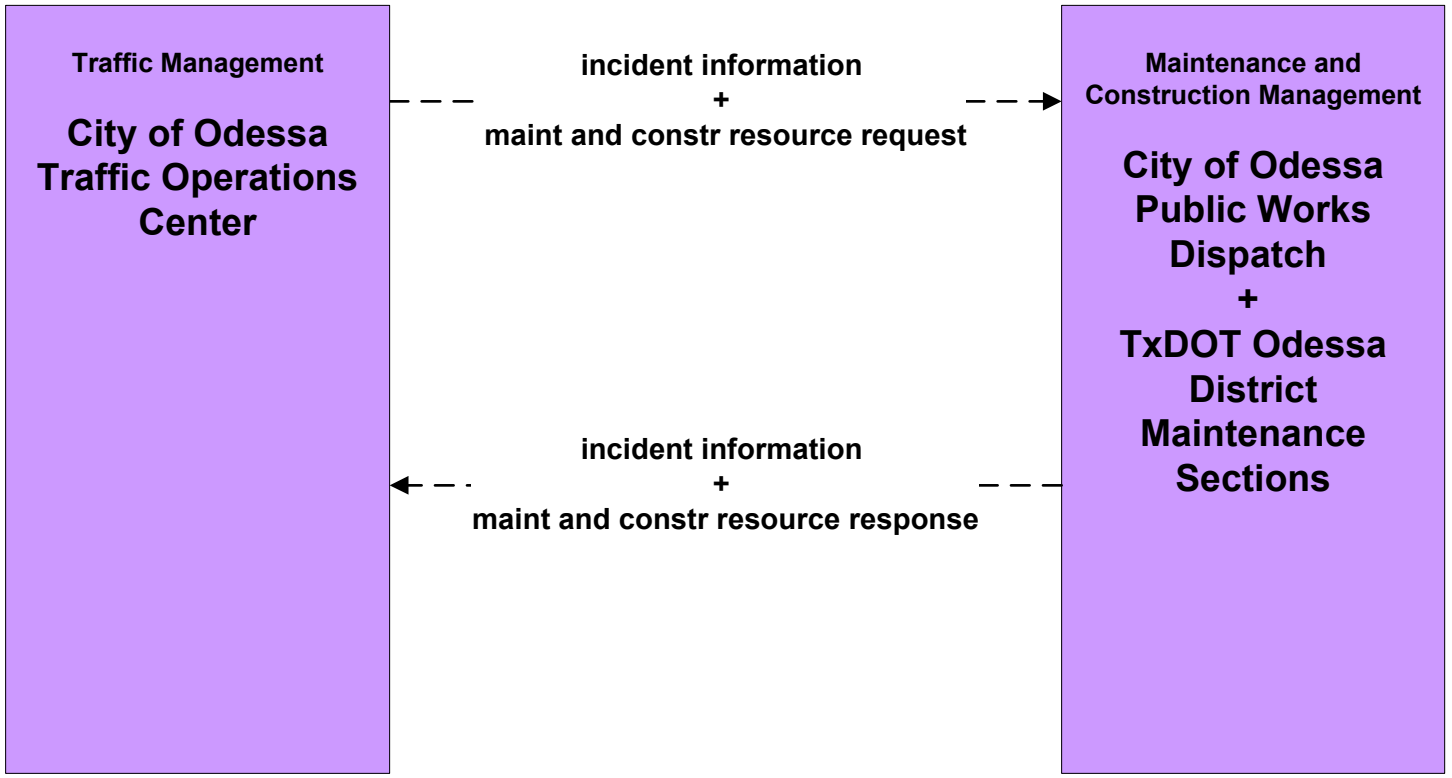
LEGEND

planned and future flow

existing flow

user defined flow

ATMS08 - Incident Management
City of Odessa Traffic Operations Center (TM to MCM)



LEGEND

planned and future flow

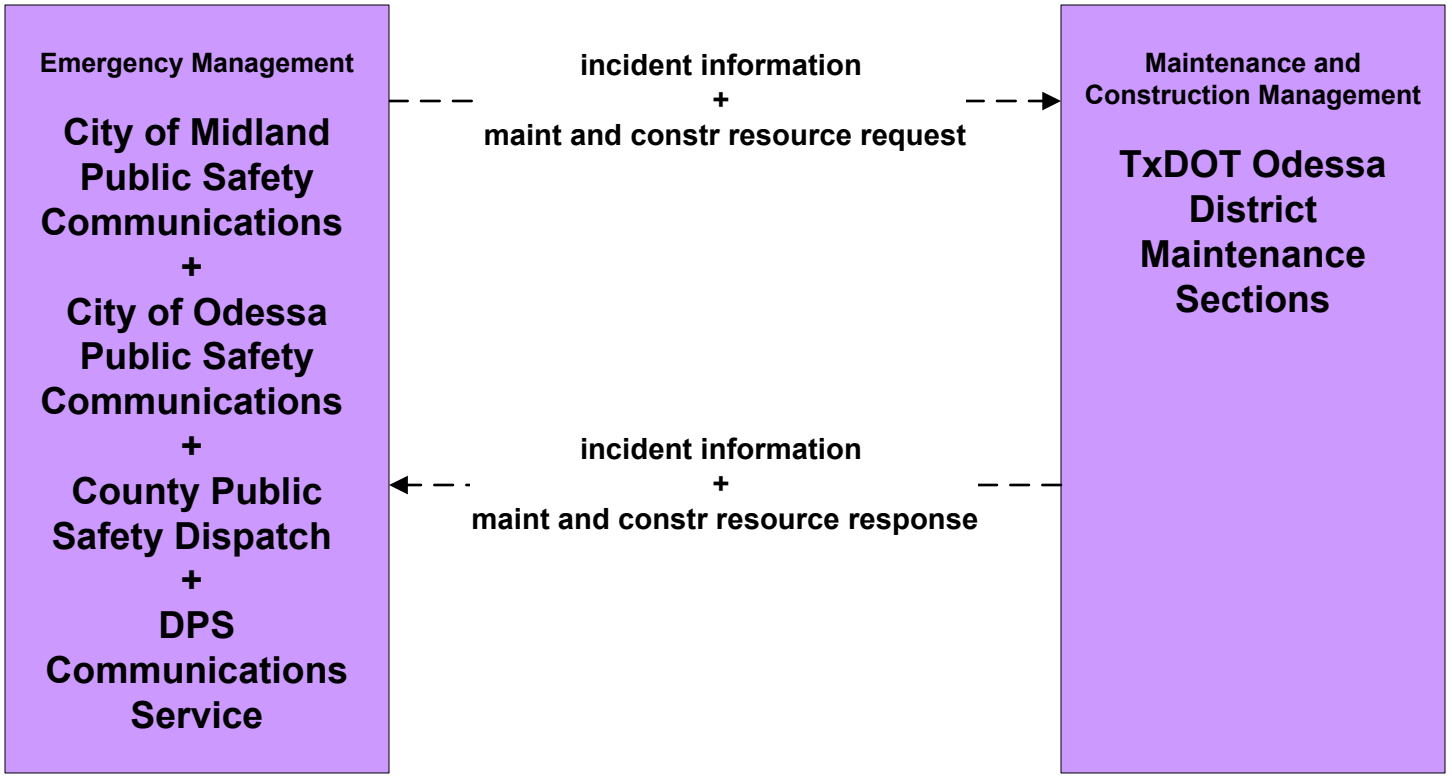
existing flow

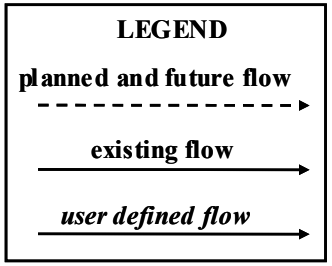
user defined flow

ATMS08 - Incident Management

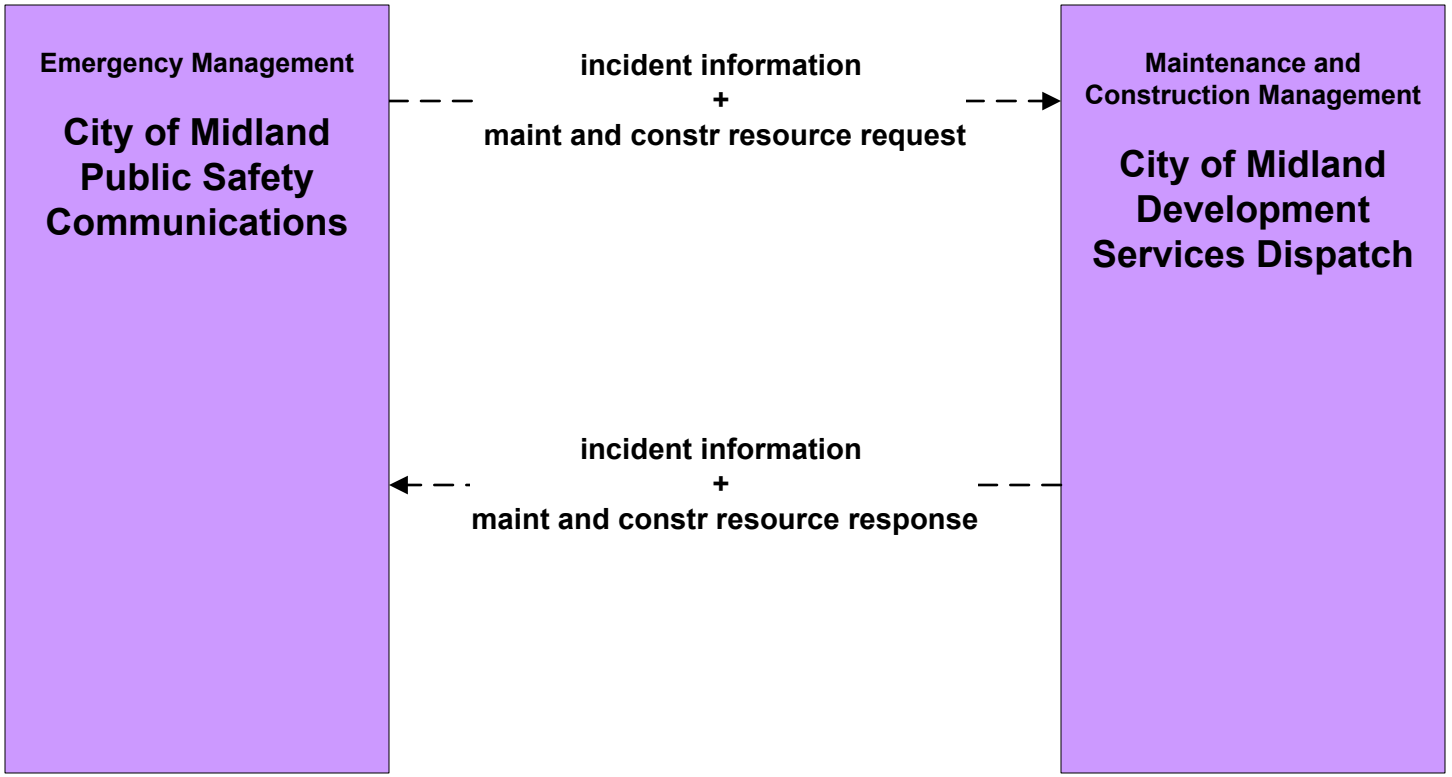
Emergency Management *Maintenance and Construction Management*

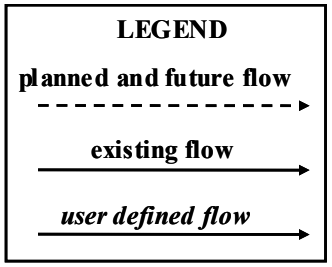
ATMS08 - Incident Management
TxDOT Odessa District Maintenance Sections (MCM to EM)



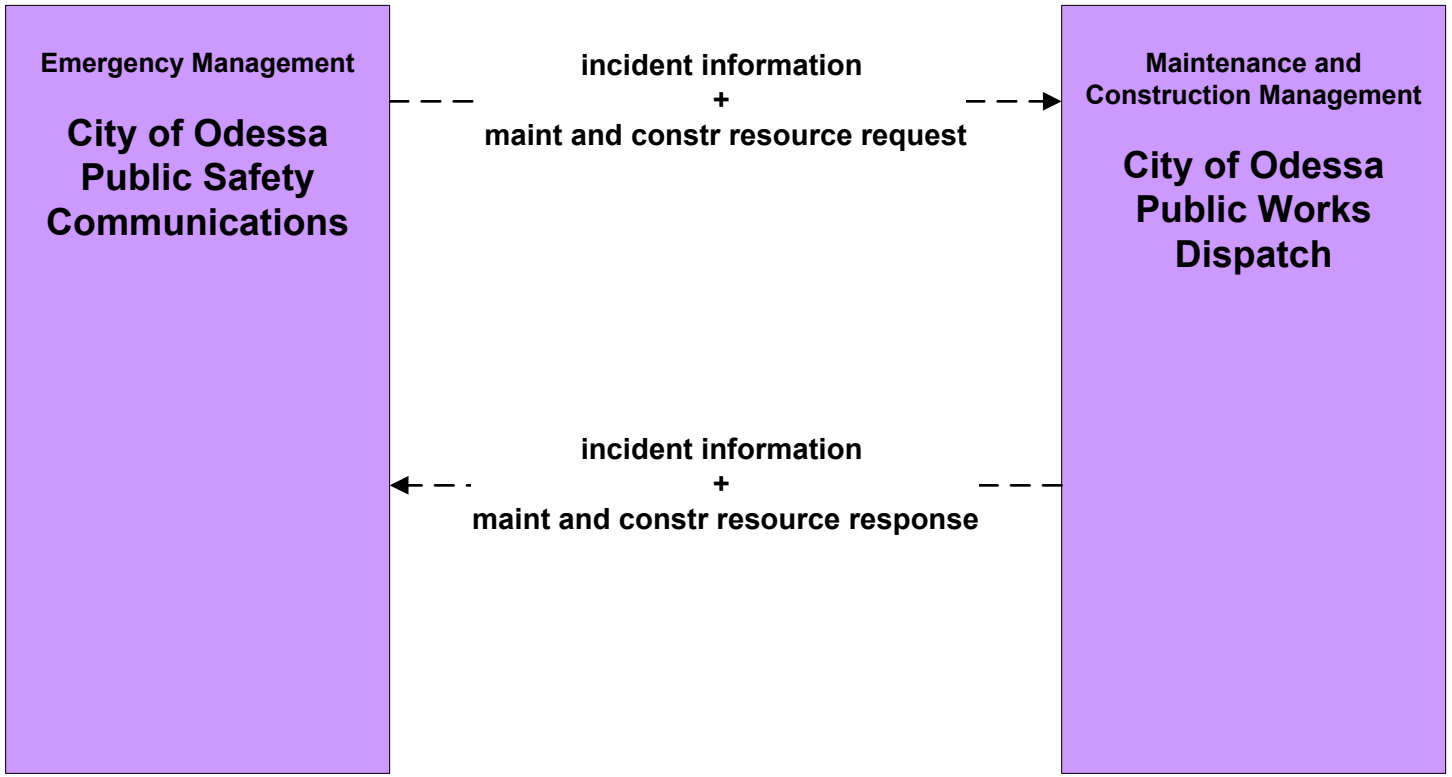


ATMS08 - Incident Management
City of Midland PWD (MCM to EM)





ATMS08 - Incident Management
City of Odessa PWD (MCM to EM)



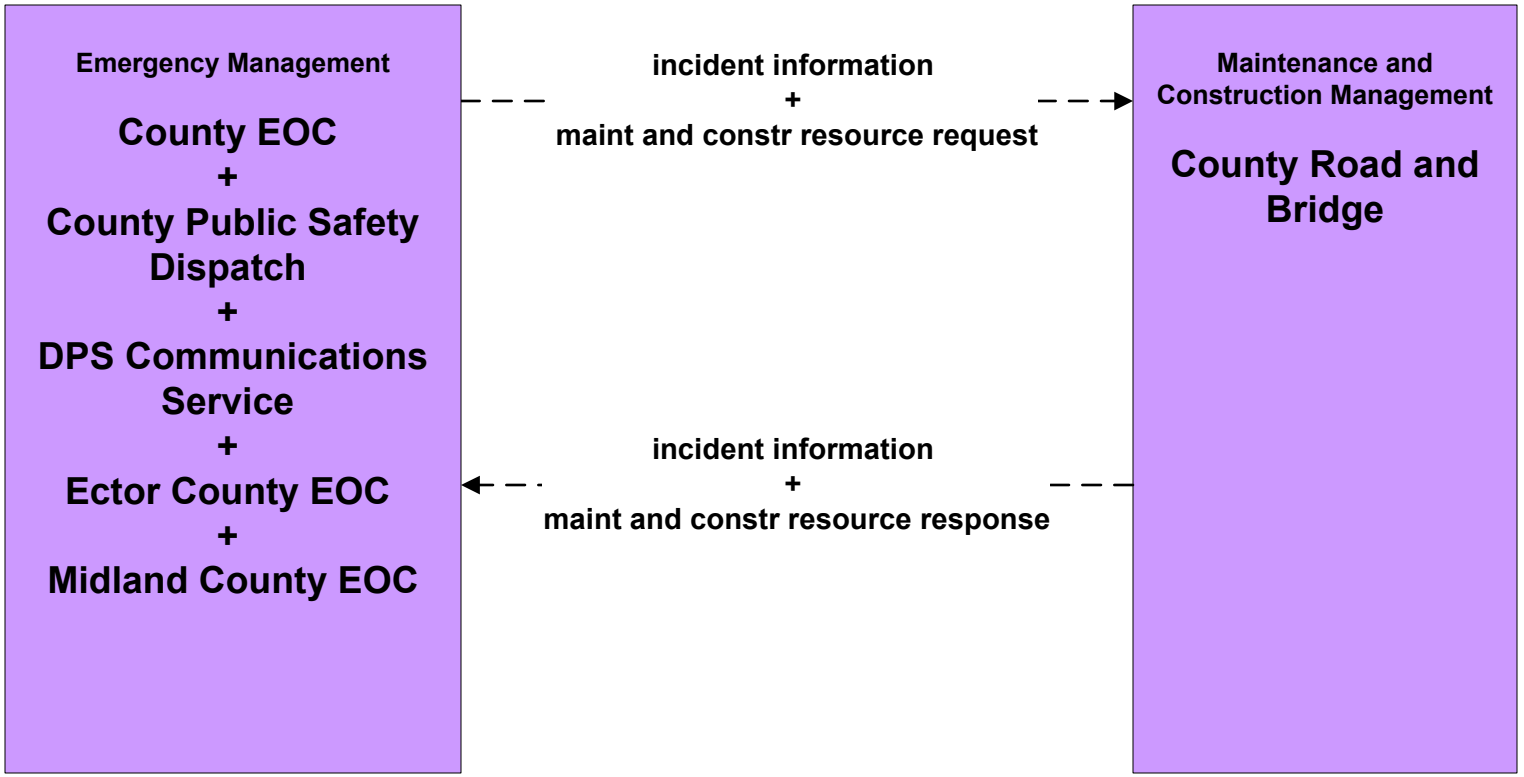
LEGEND

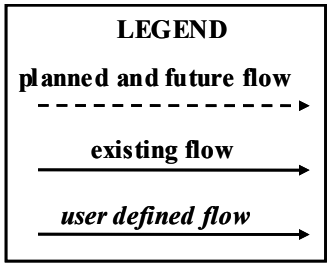
planned and future flow

existing flow

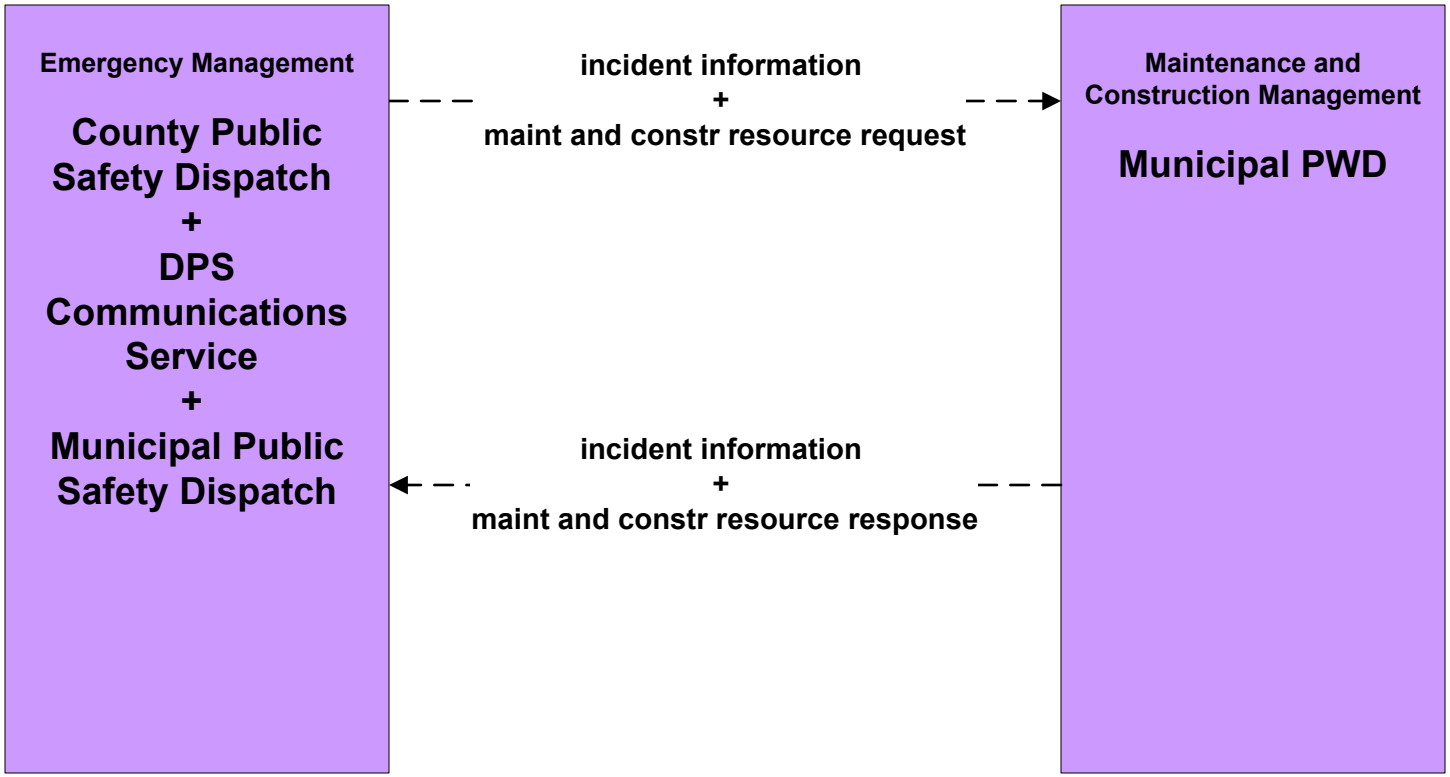
user defined flow

ATMS08 - Incident Management
County Road and Bridge (MCM to EM)





ATMS08 - Incident Management
Municipal PWD (MCM to EM)



LEGEND

planned and future flow

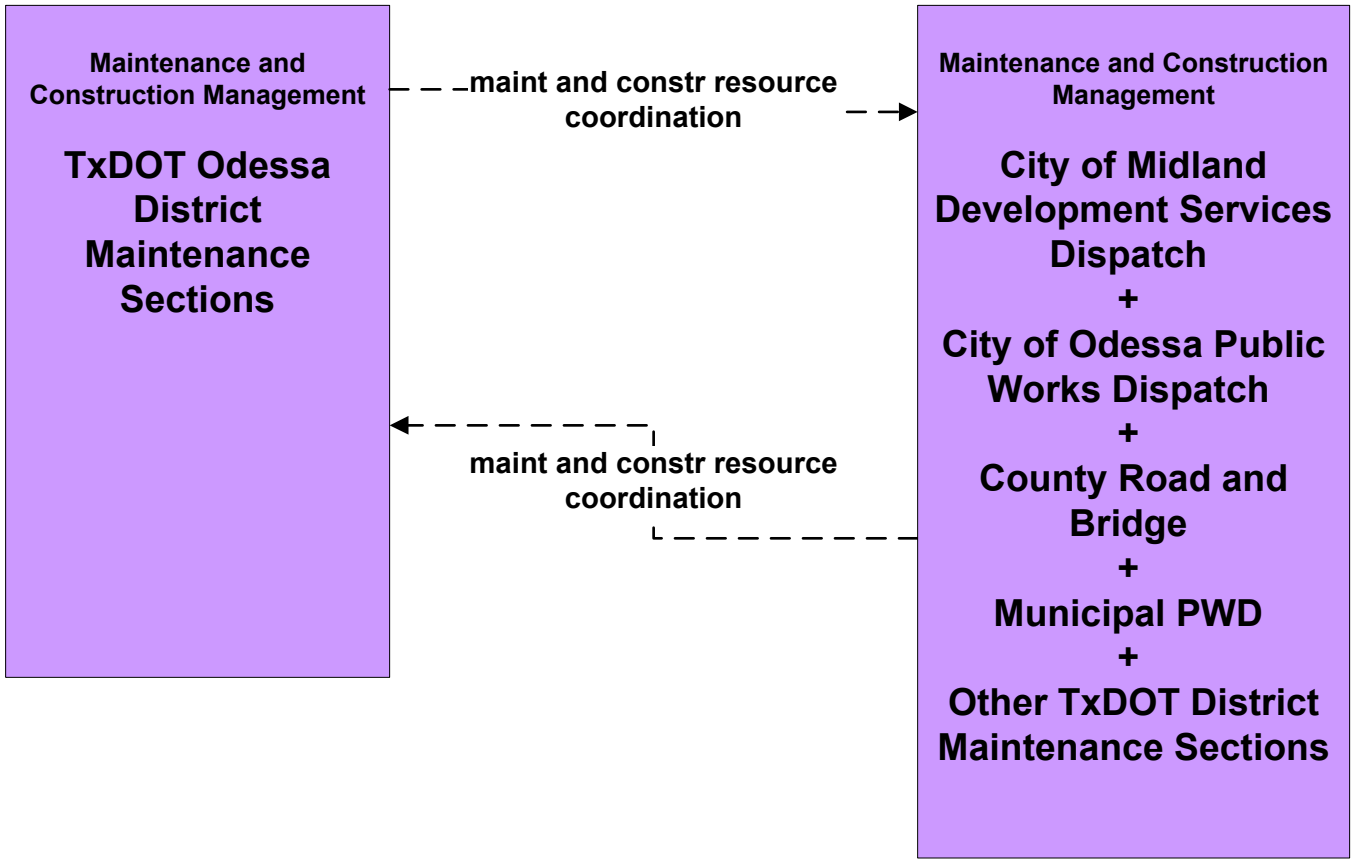
existing flow

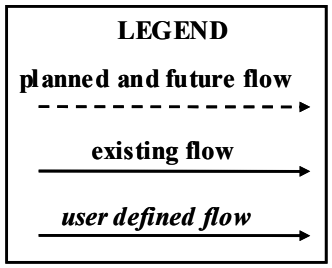
user defined flow

ATMS08 - Incident Management

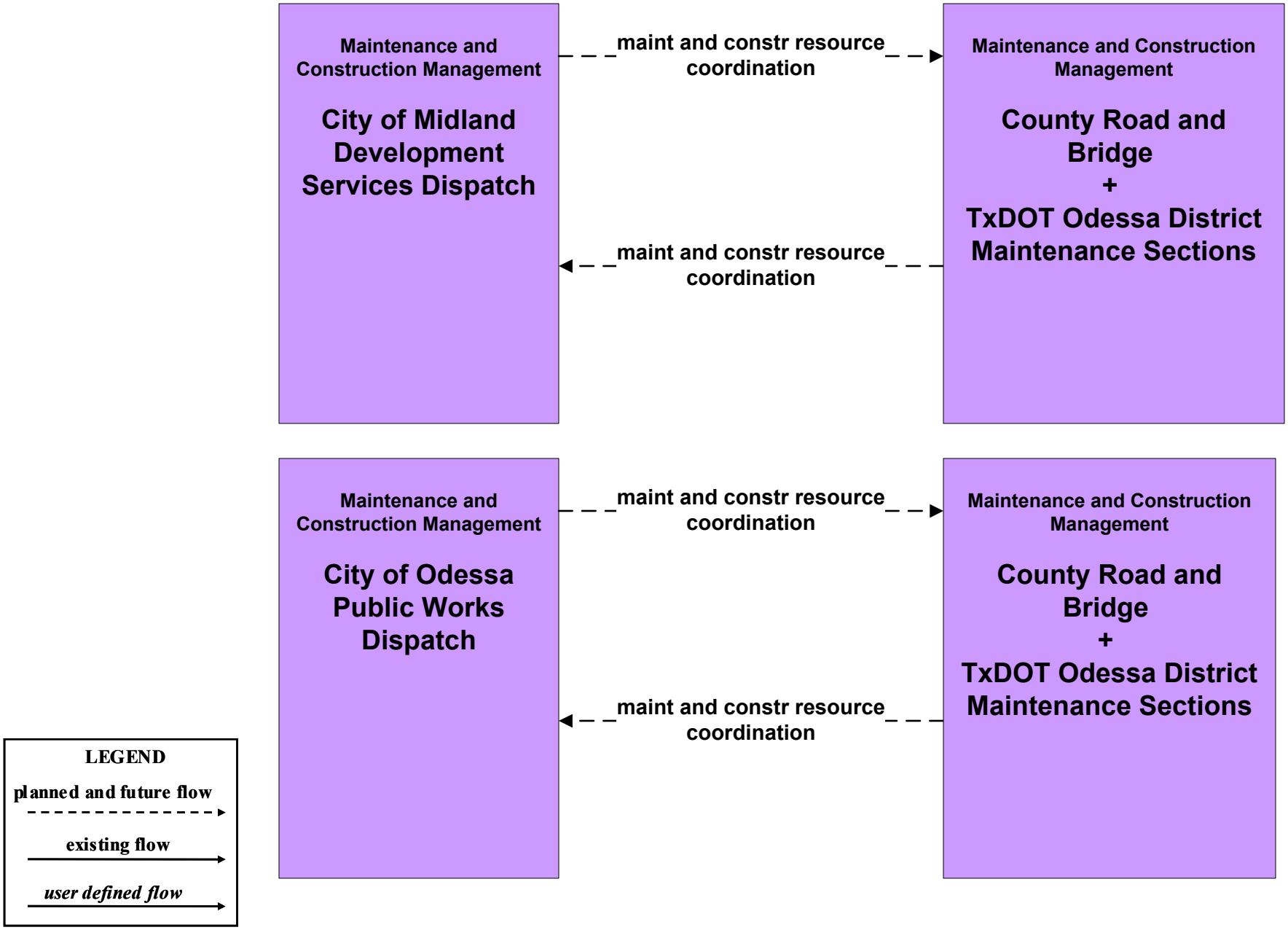
Maintenance and Construction Management *Maintenance and Construction Management*

ATMS08 - Incident Management
TxDOT Odessa District (MCM to Other MCM)

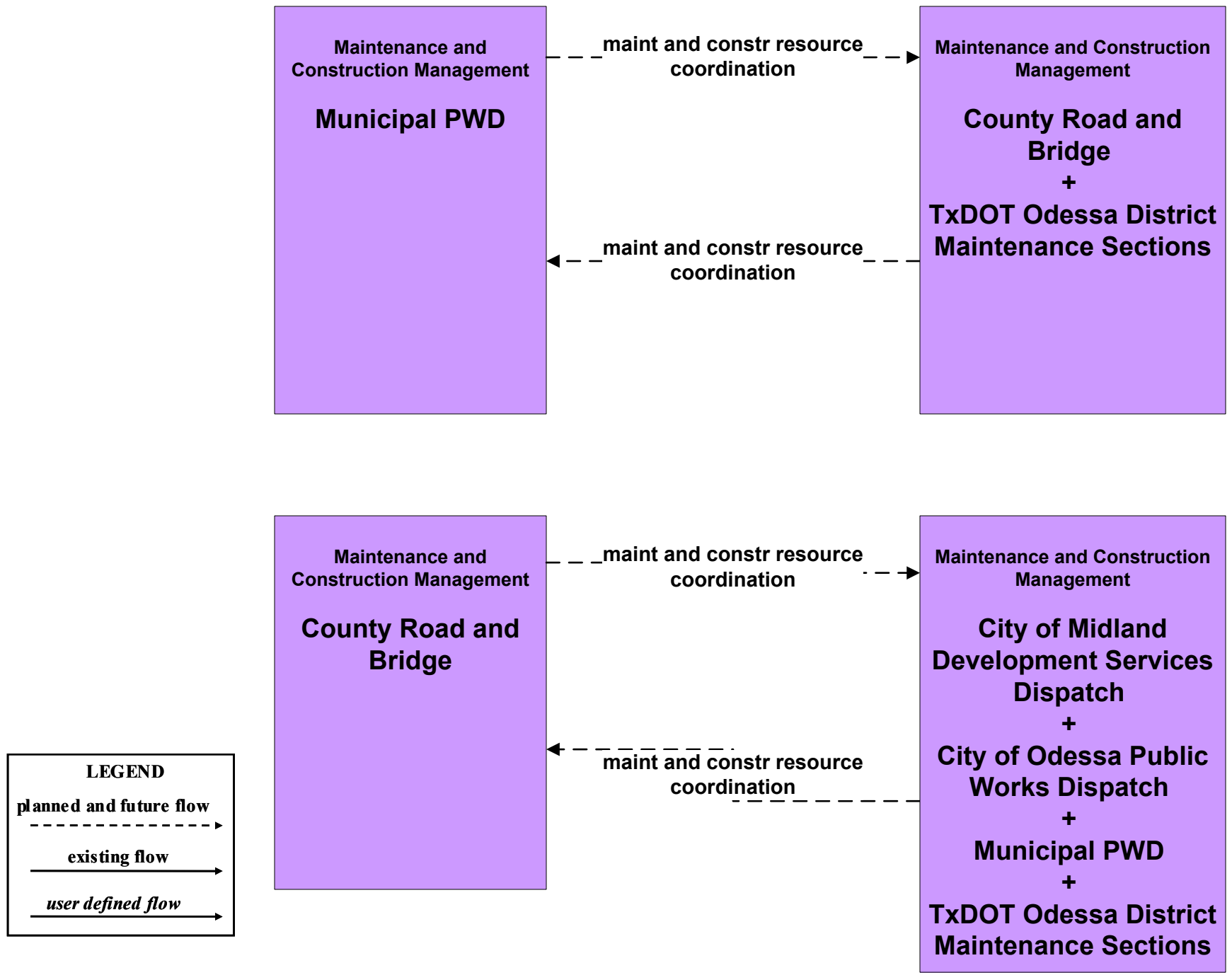




ATMS08 - Incident Management
City of Midland/ Odessa (MCM to Other MCM)



ATMS08 - Incident Management
Municipal PWD/ County Road and Bridge (MCM to Other MCM)

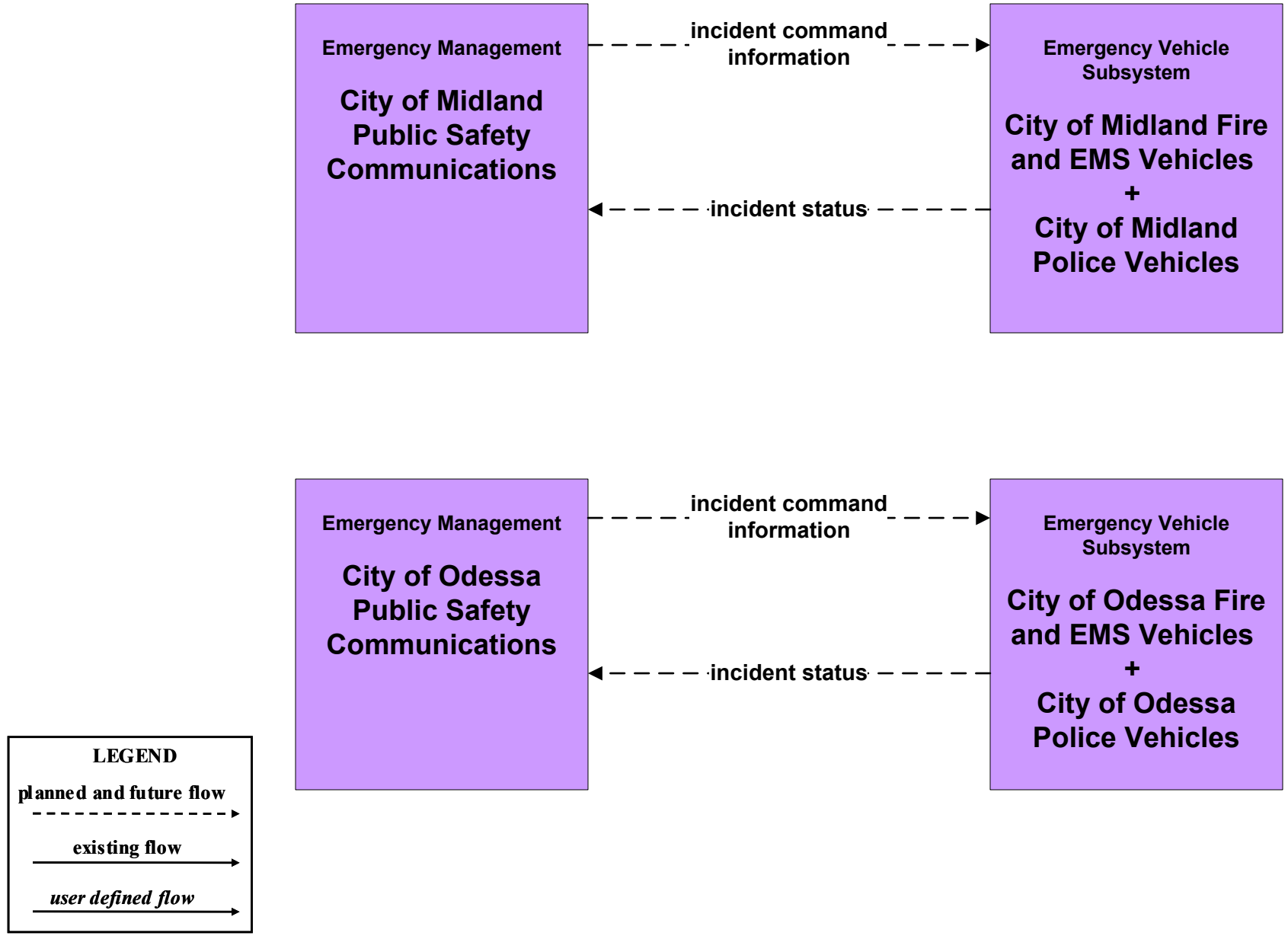


ATMS08 - Incident Management

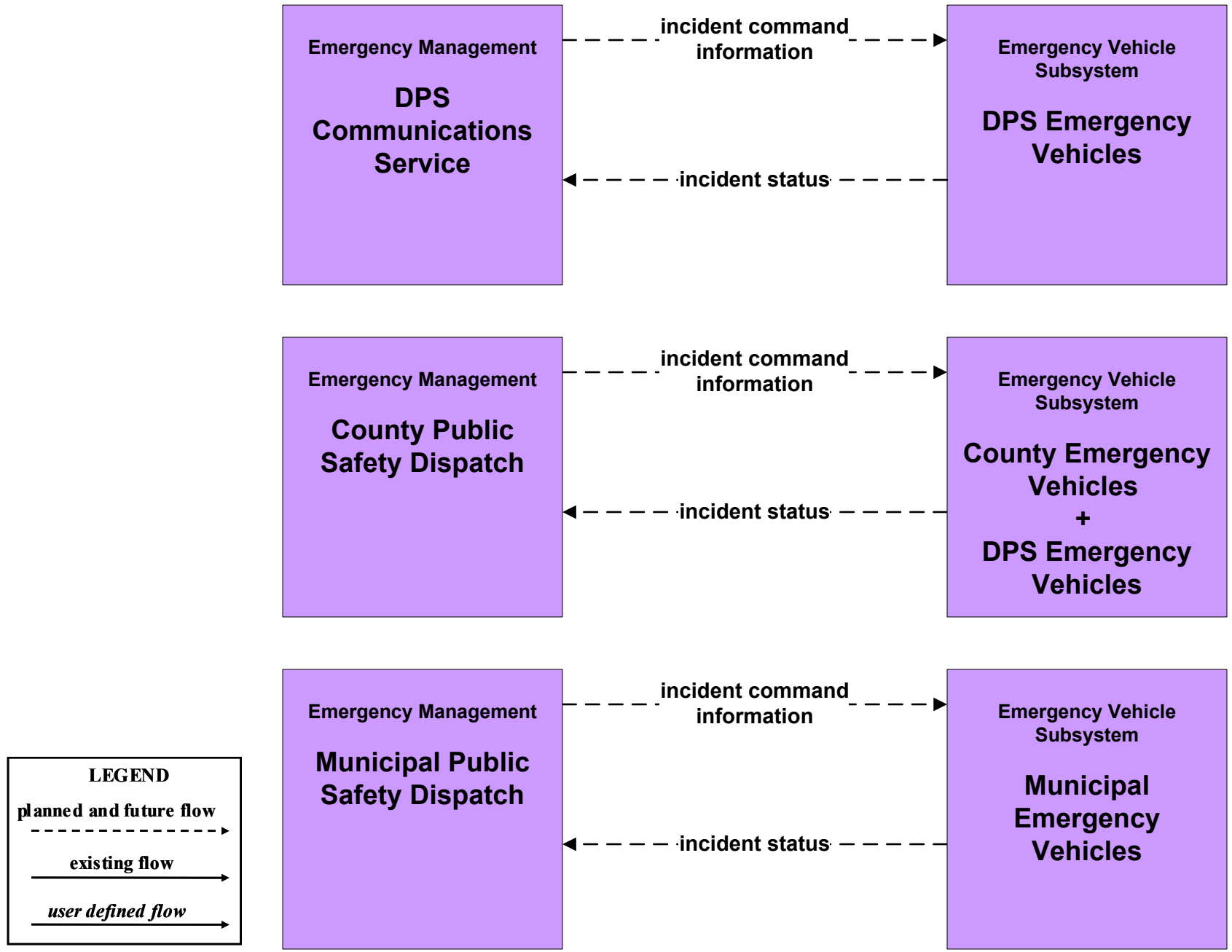
Emergency Management

Emergency Vehicles

ATMS08 - Incident Management
City of Midland/ Odessa (EM to EVS)



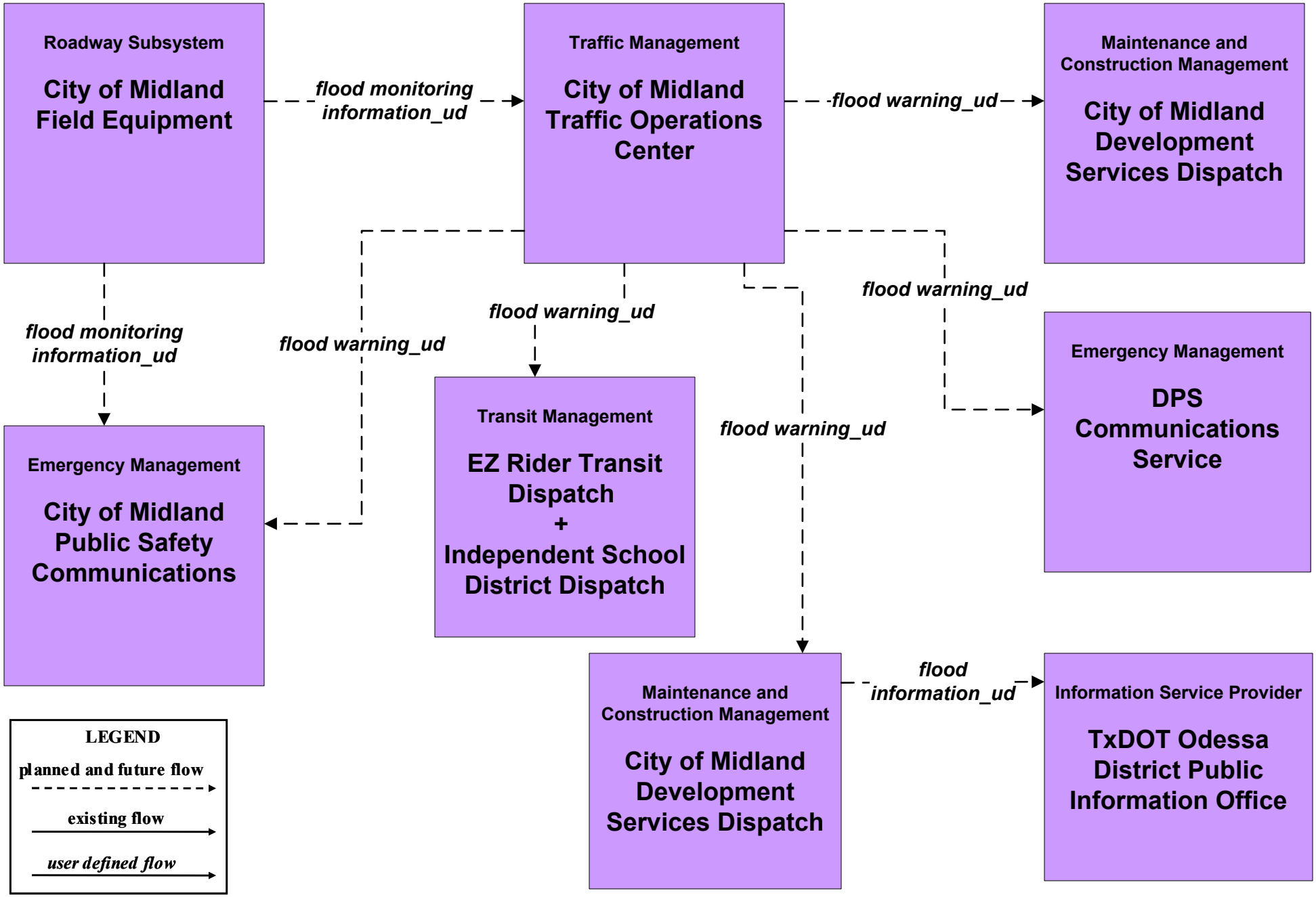
ATMS08 - Incident Management
EM to EVS



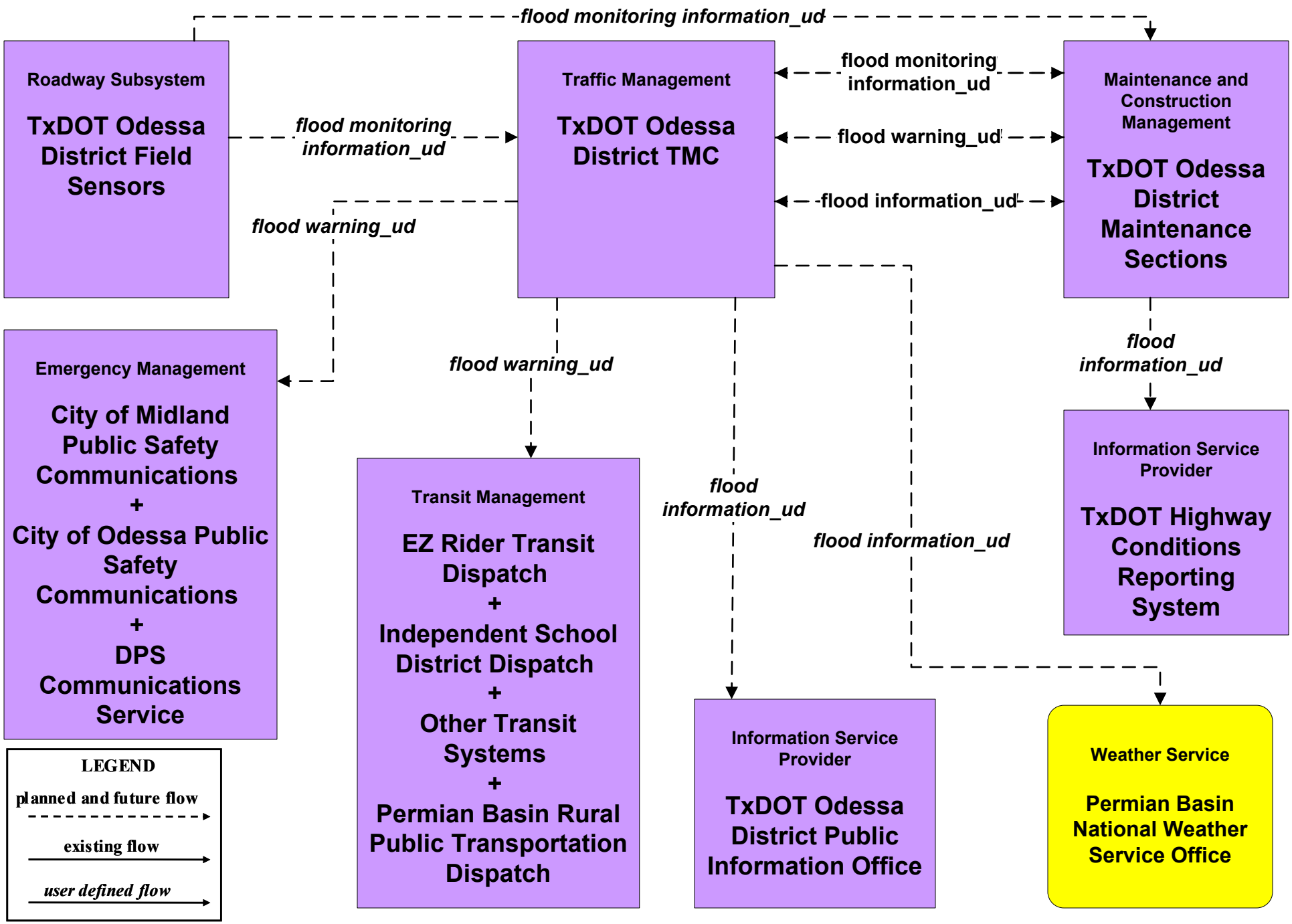
ATMS08 - Incident Management

Flood Monitoring

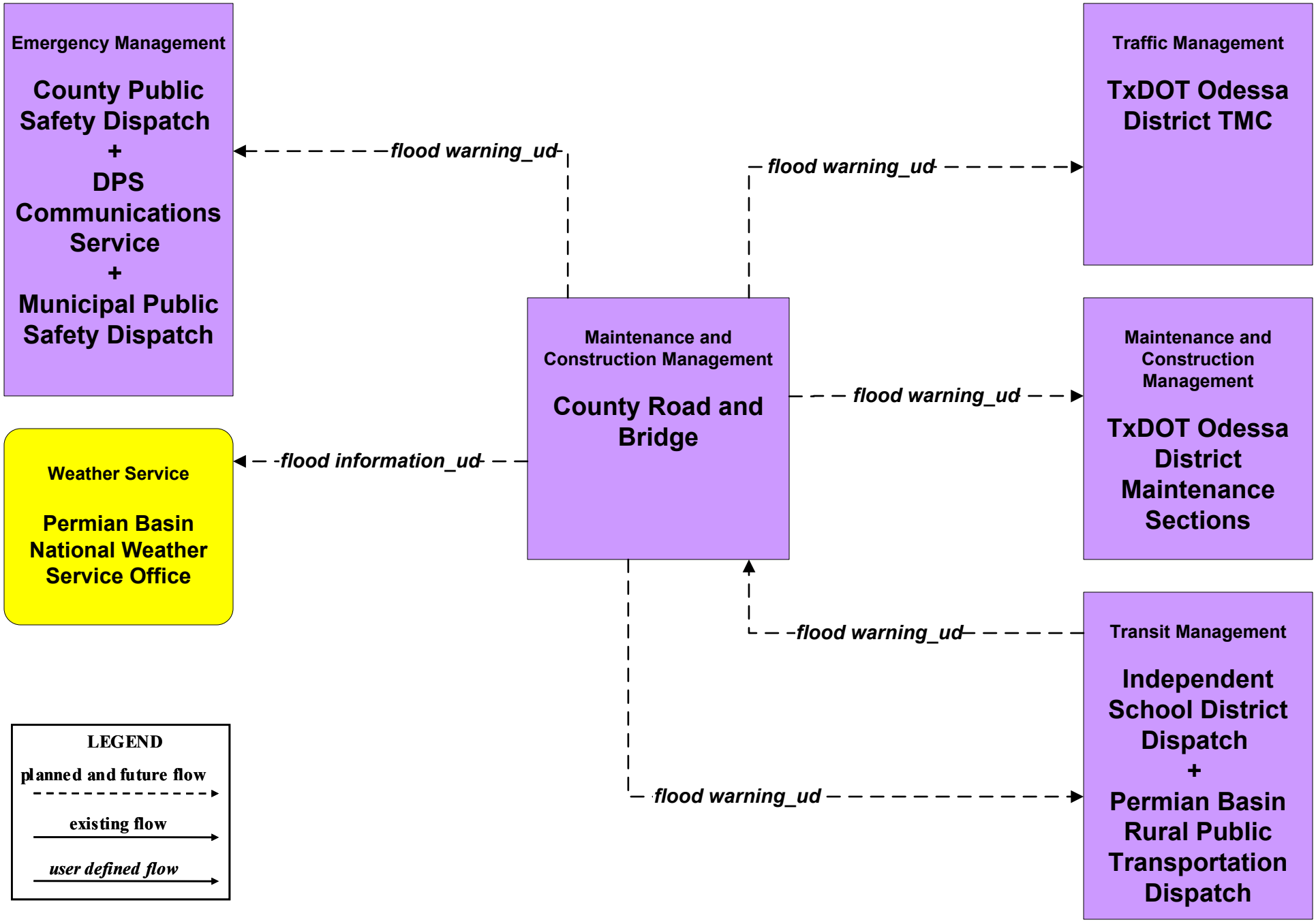
ATMS08 - Incident Management
Flood Monitoring - City of Midland



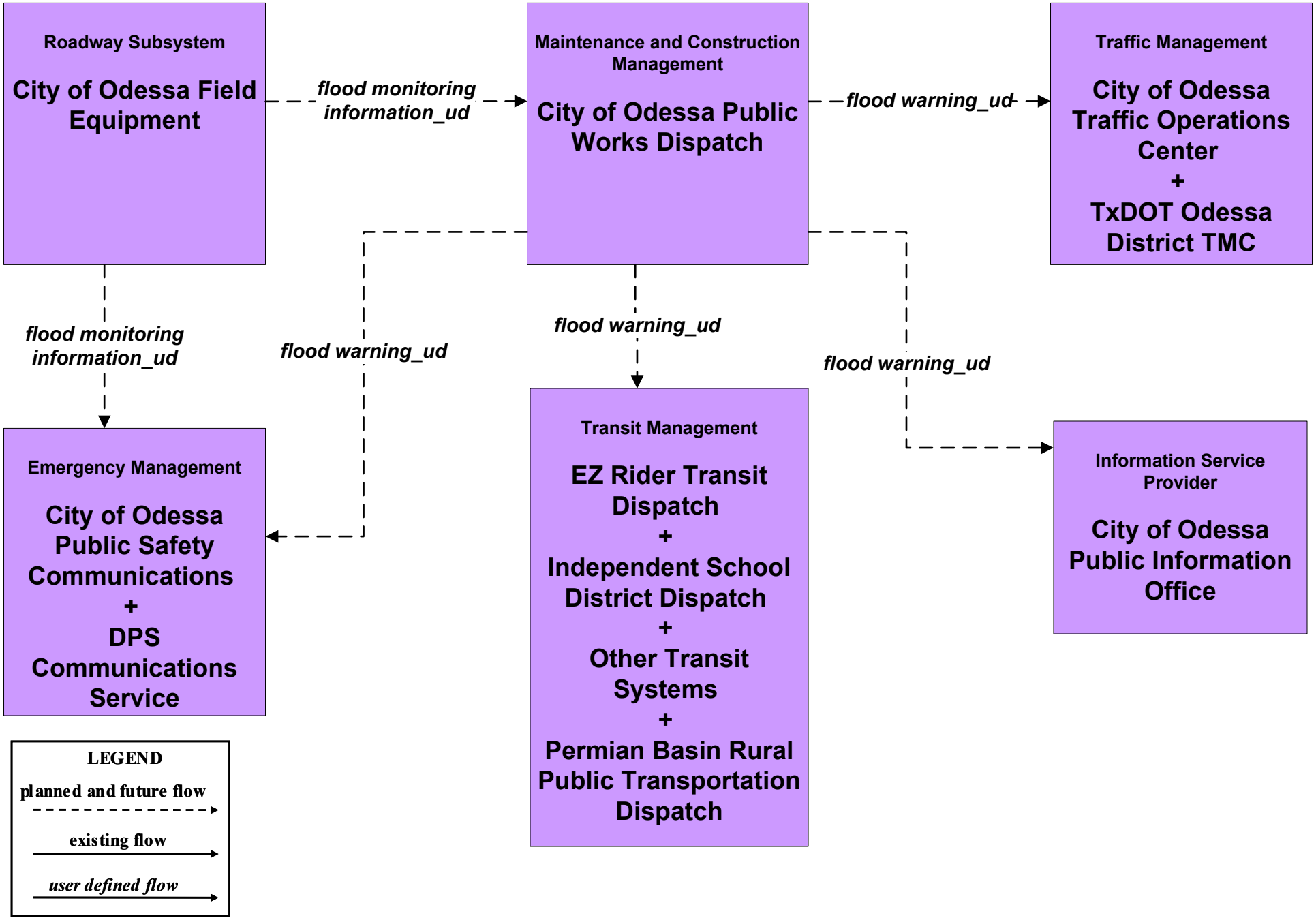
ATMS08 - Incident Management
Flood Monitoring - TxDOT Odessa



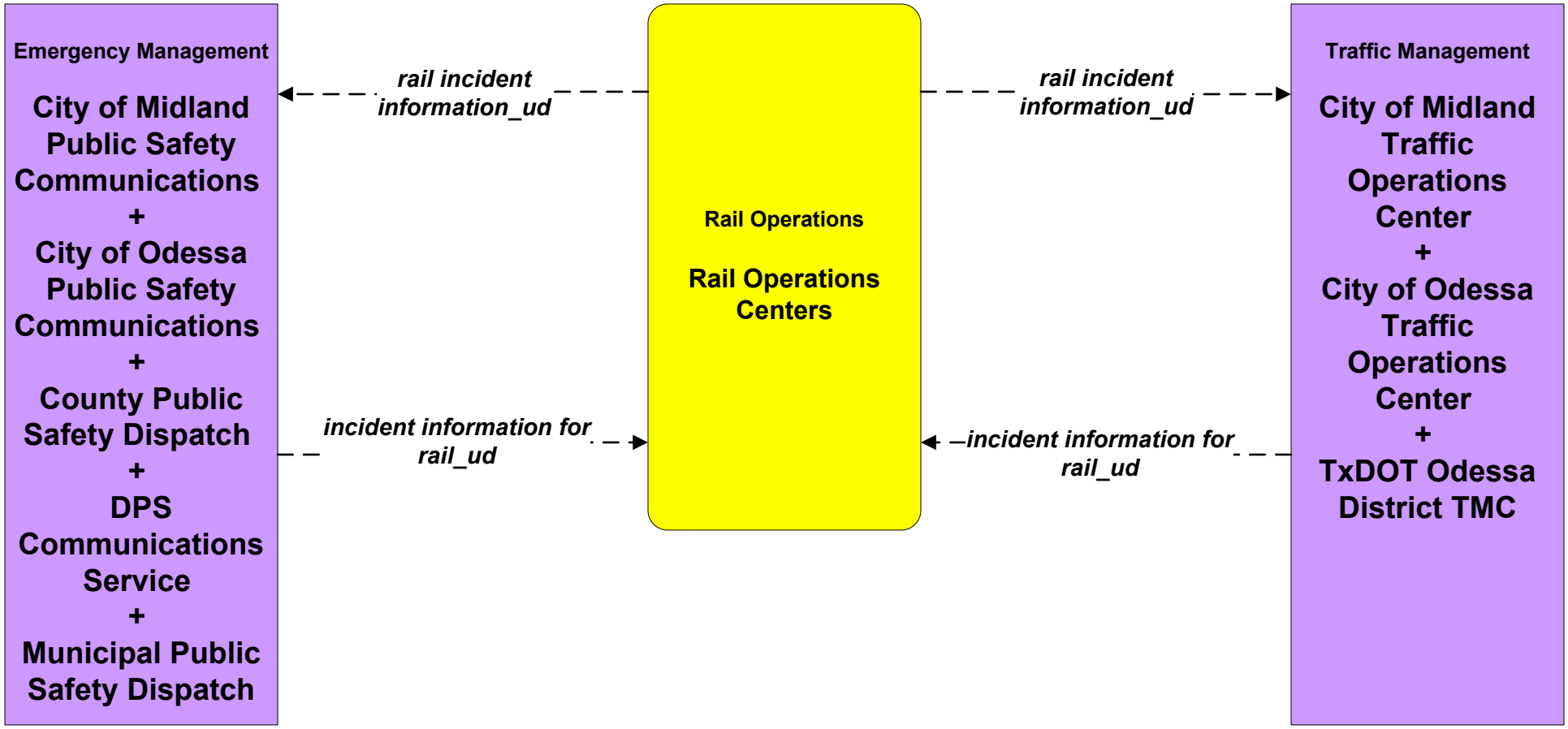
ATMS08 - Incident Management
Flood Monitoring - County Road and Bridge

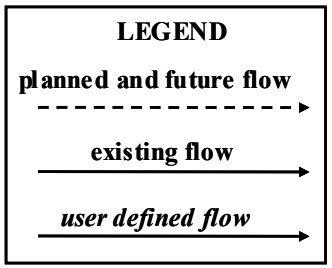


ATMS08 - Incident Management
Flood Monitoring - City of Odessa

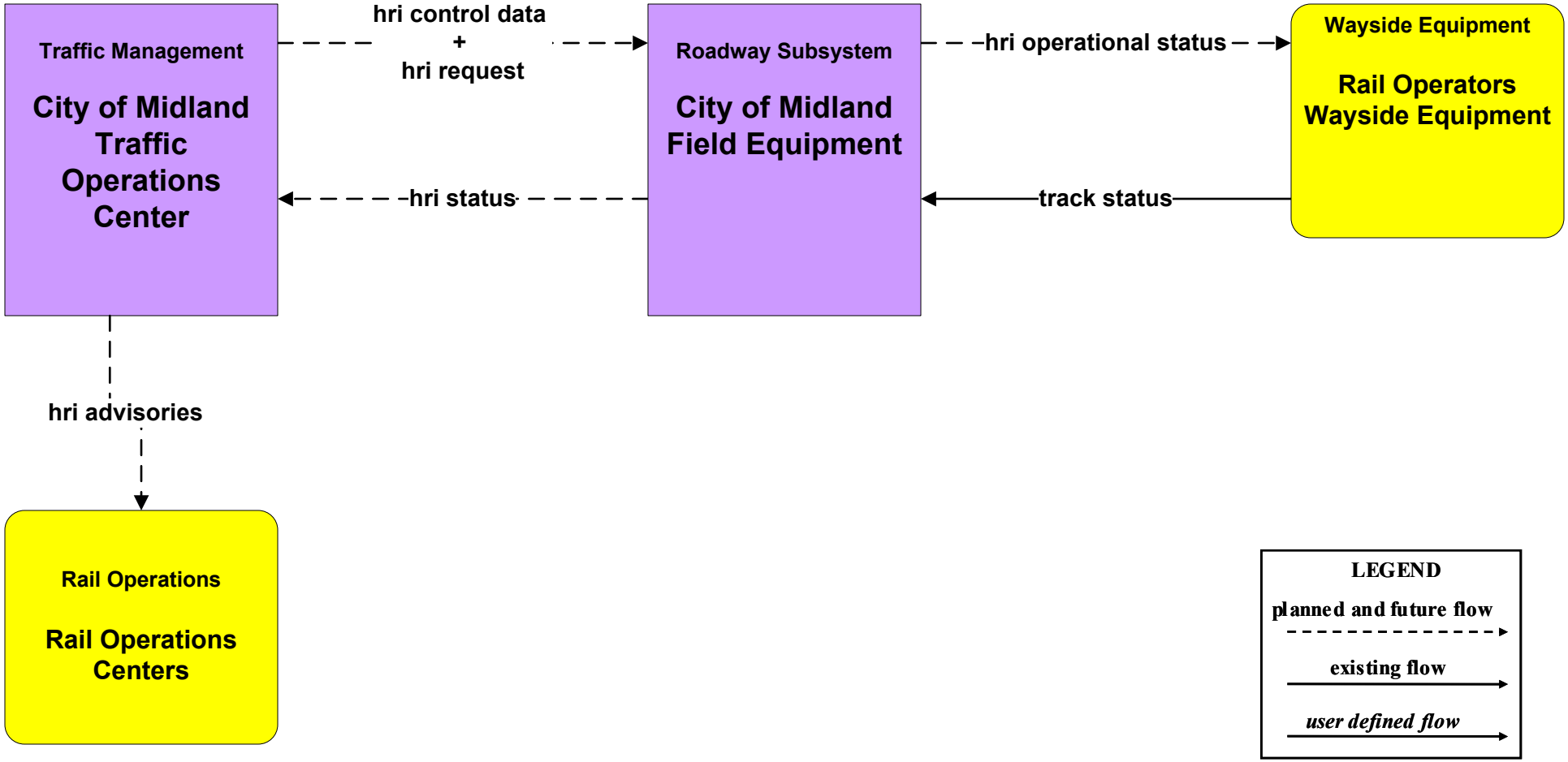


ATMS08 - Incident Management
Rail Operations Coordination

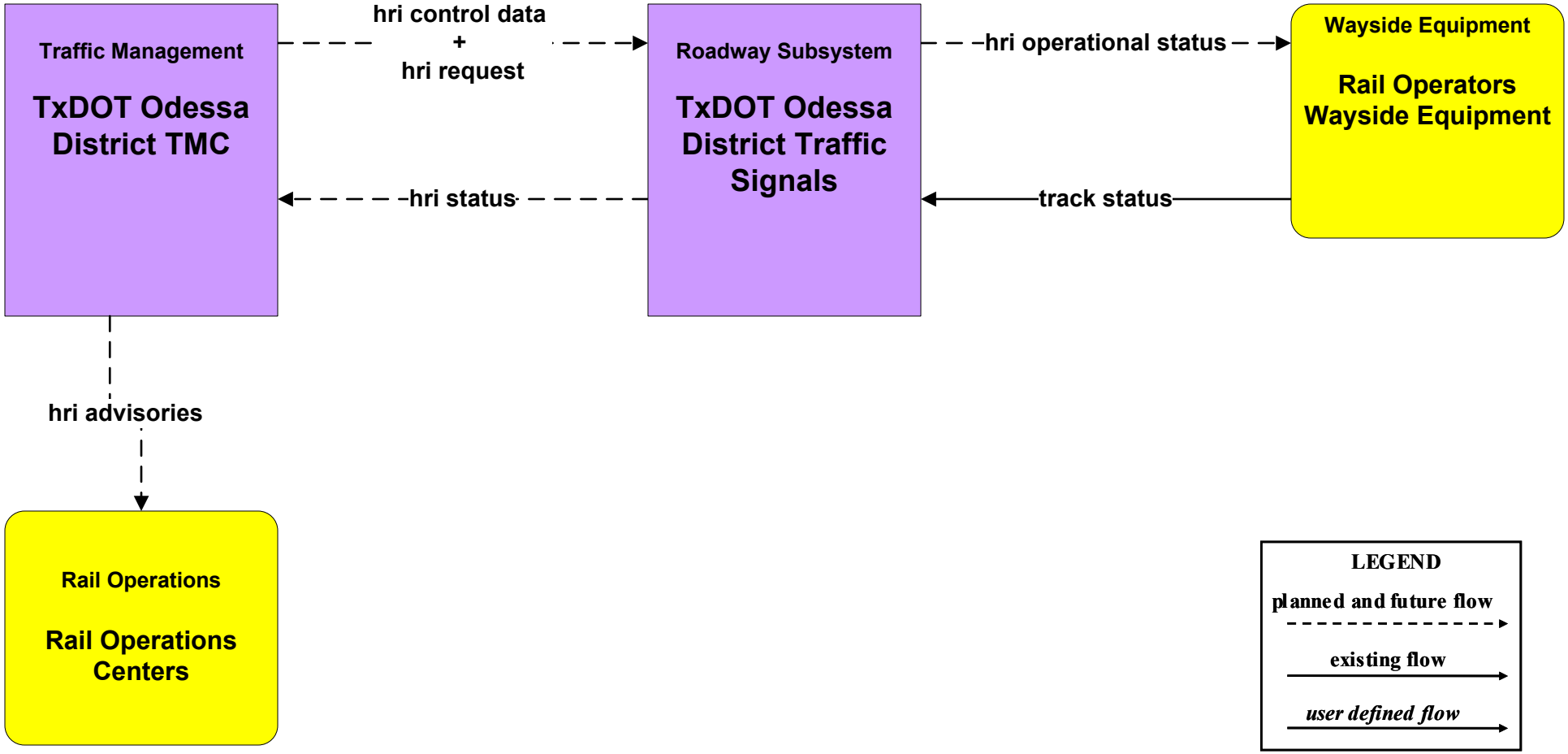




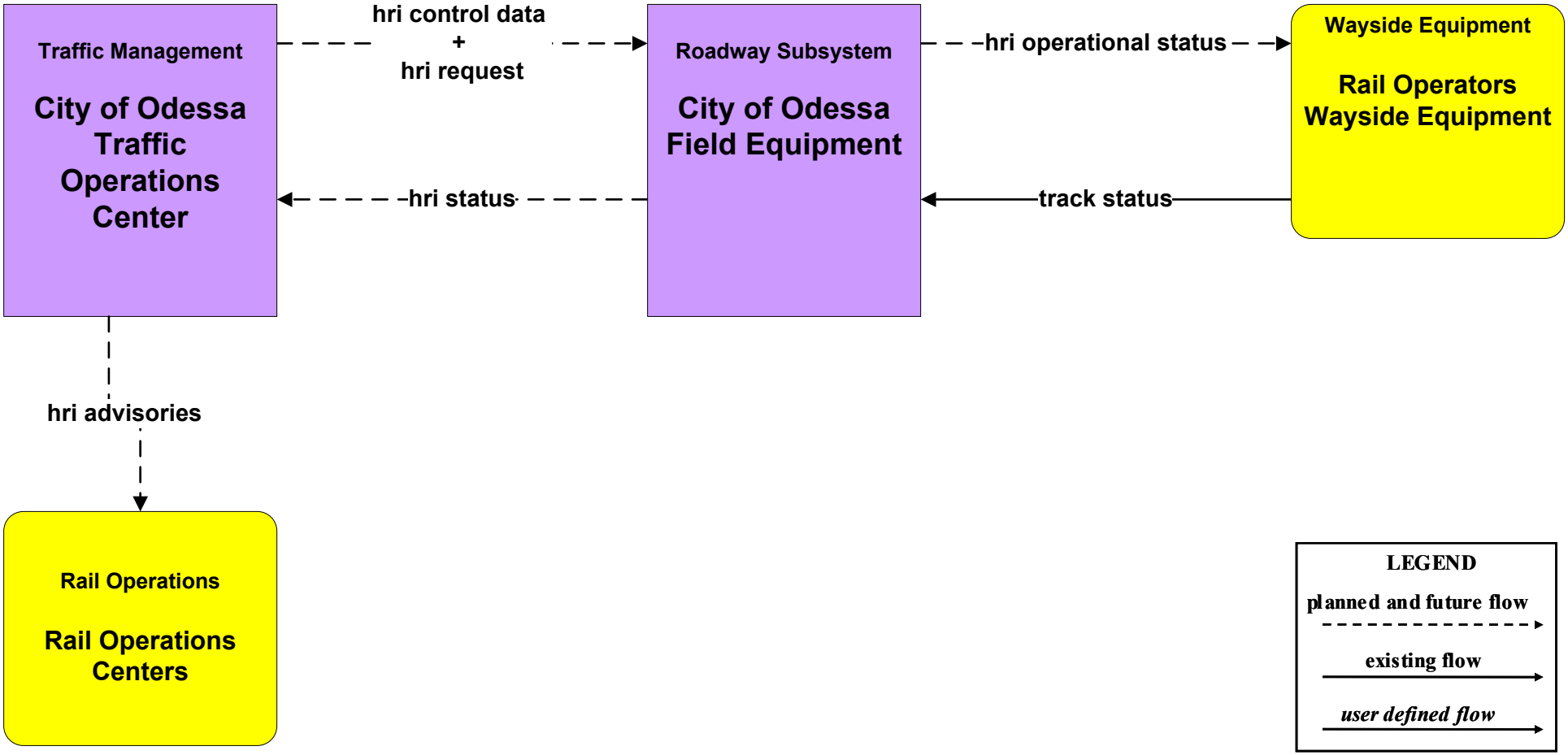
ATMS13 - Standard Railroad Crossing
City of Midland Traffic Operations Center



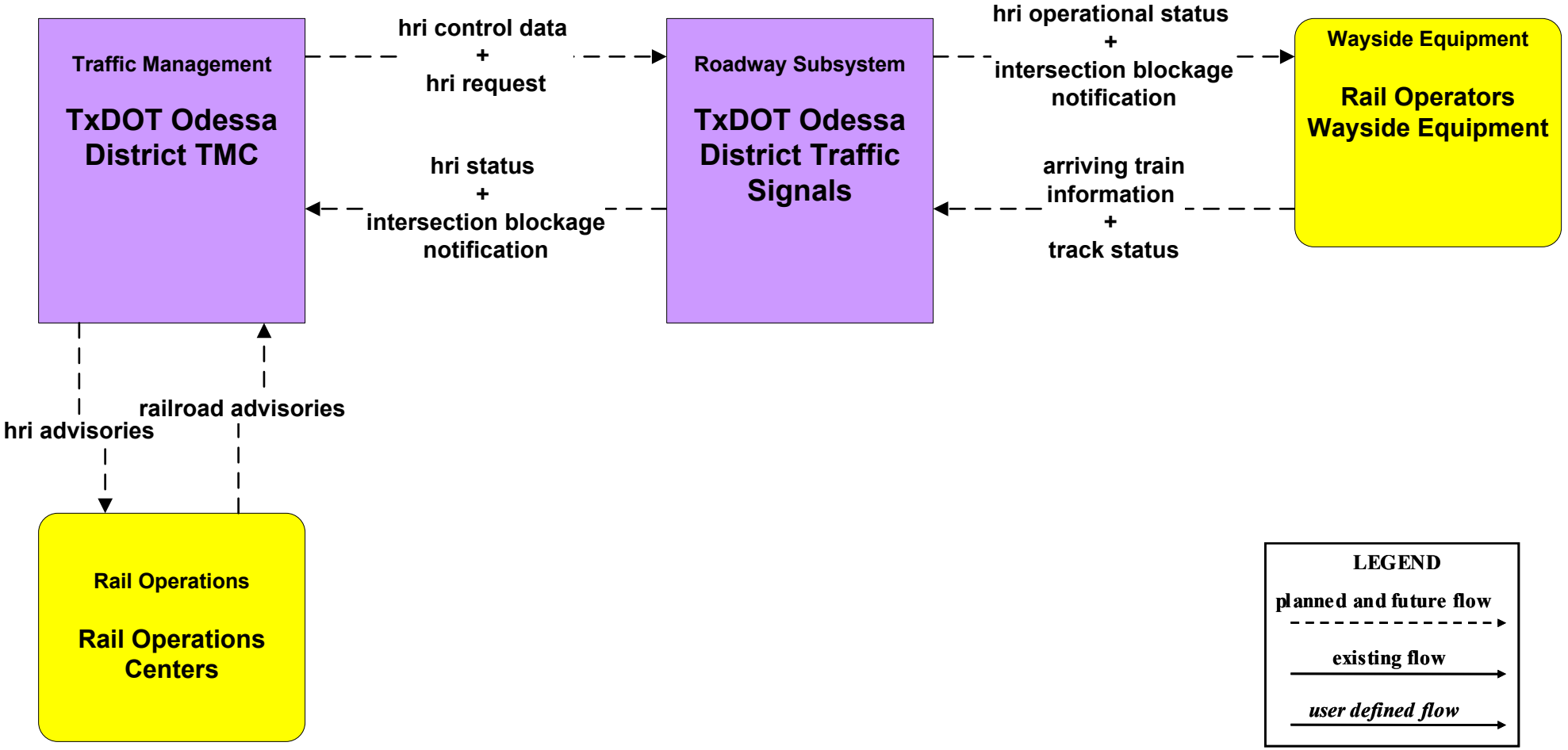
ATMS13 - Standard Railroad Crossing
TxDOT Odessa District TMC



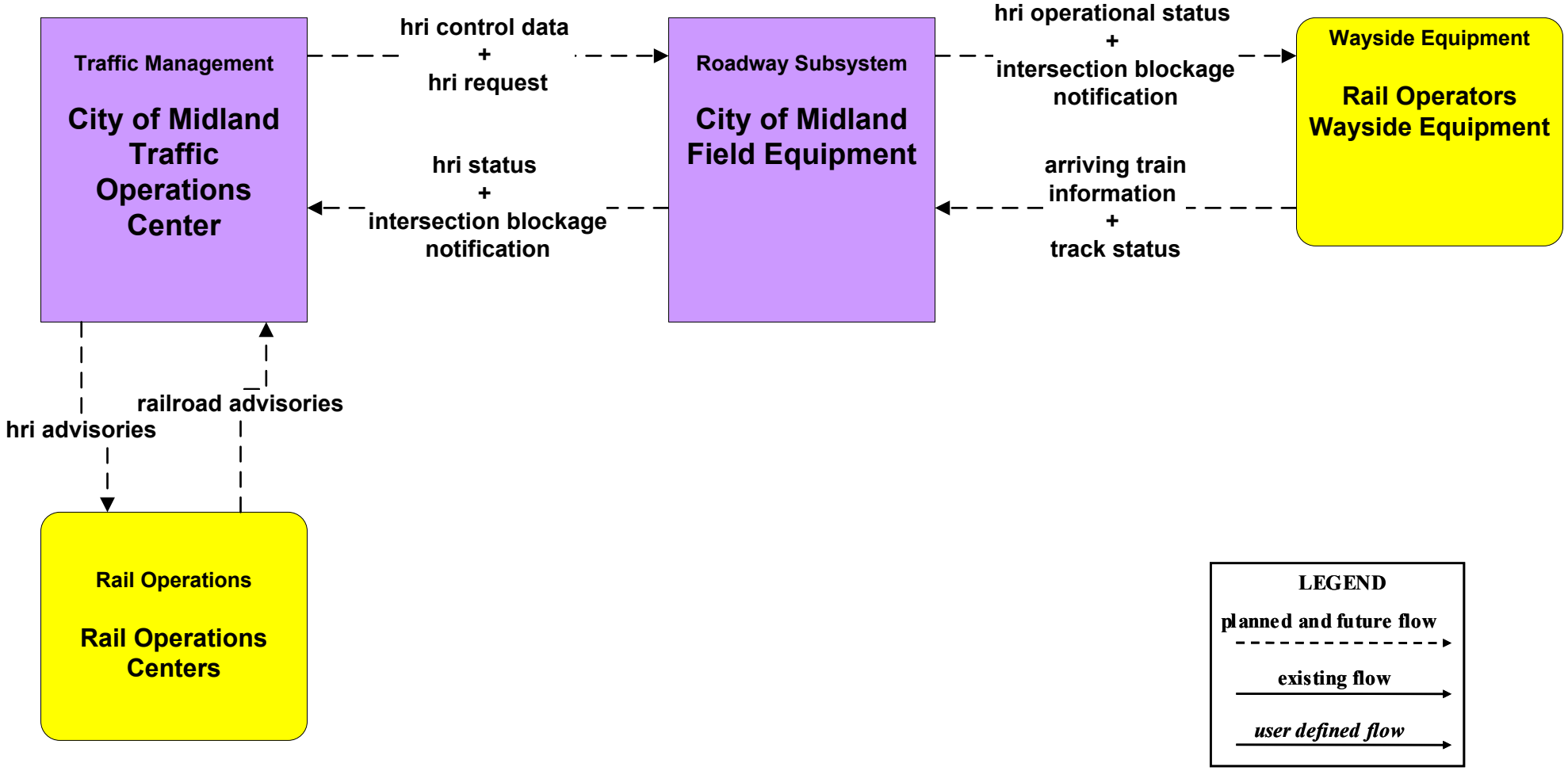
ATMS13 - Standard Railroad Crossing
City of Odessa Traffic Operations Center



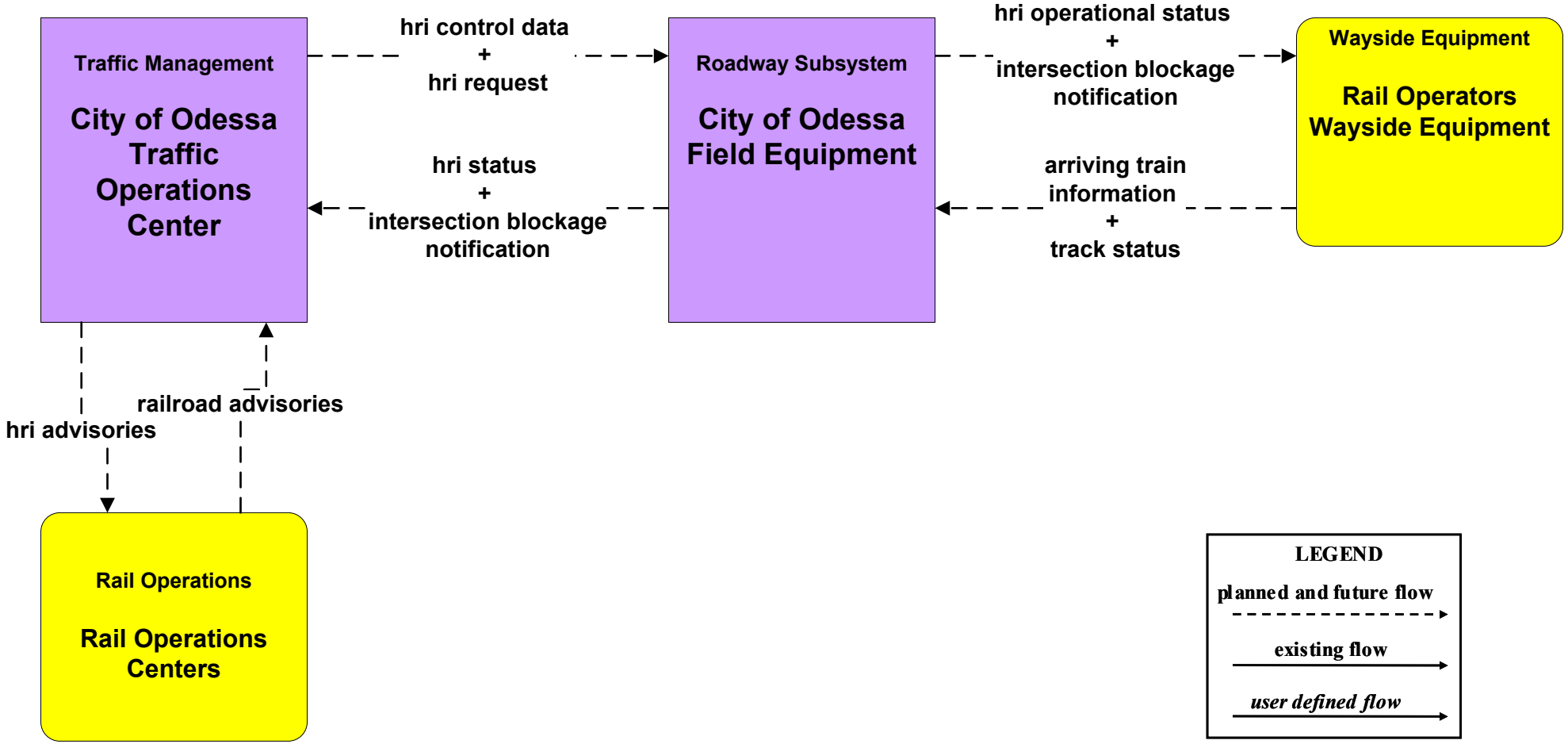
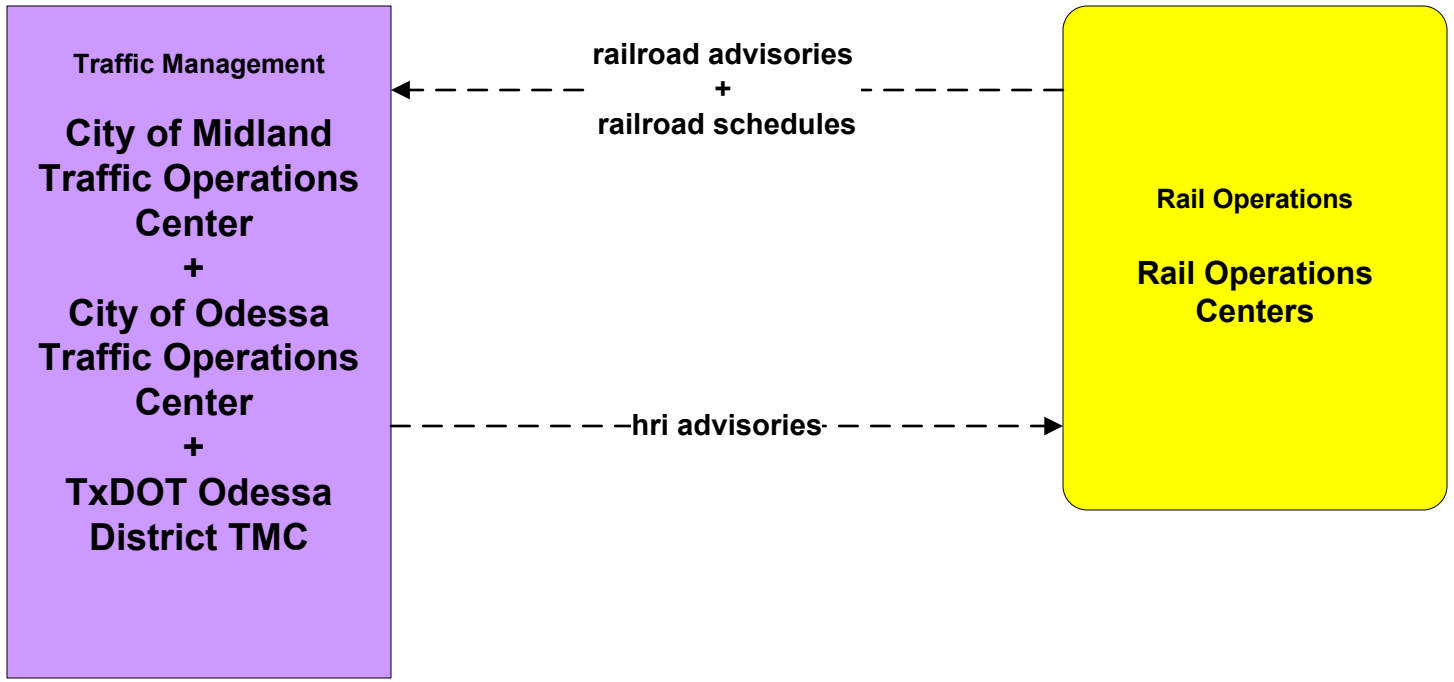
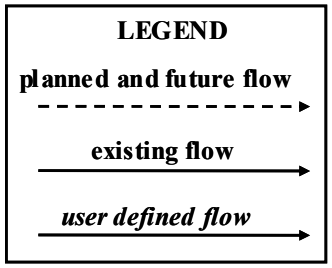
ATMS14 - Advanced Railroad Crossing
TxDOT Odessa District TMC



ATMS14 - Advanced Railroad Crossing
City of Midland



ATMS14 - Advanced Railroad Crossing
City of Odessa



ATMS15 - Railroad Operations Coordination