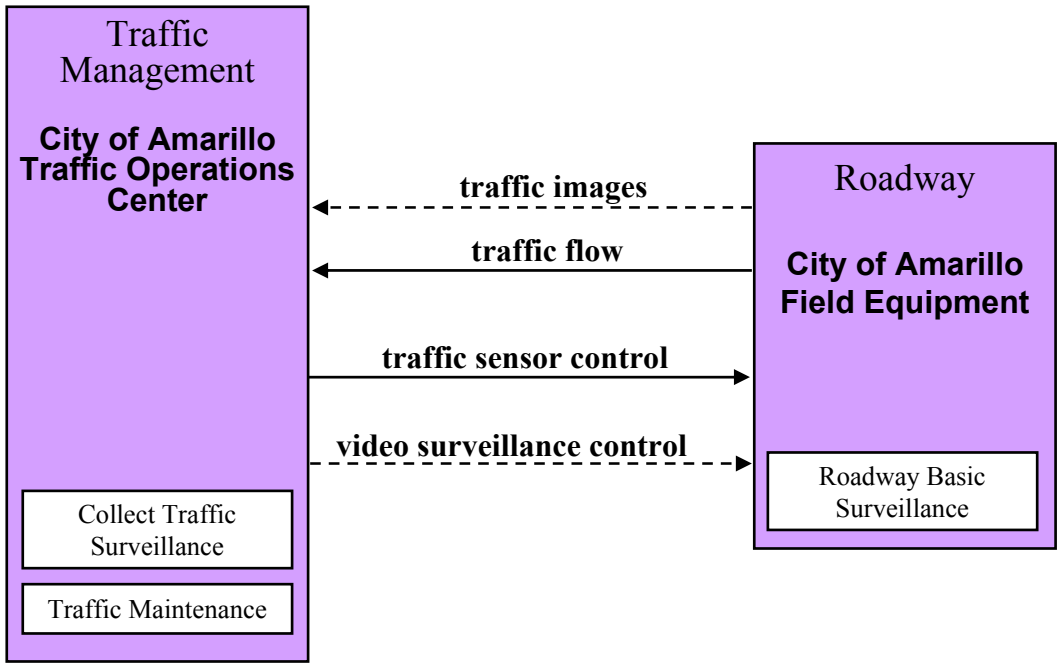
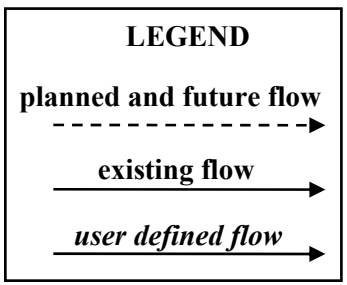
Amarillo, TX Regional ITS Architecture
Customized Market Package Diagrams

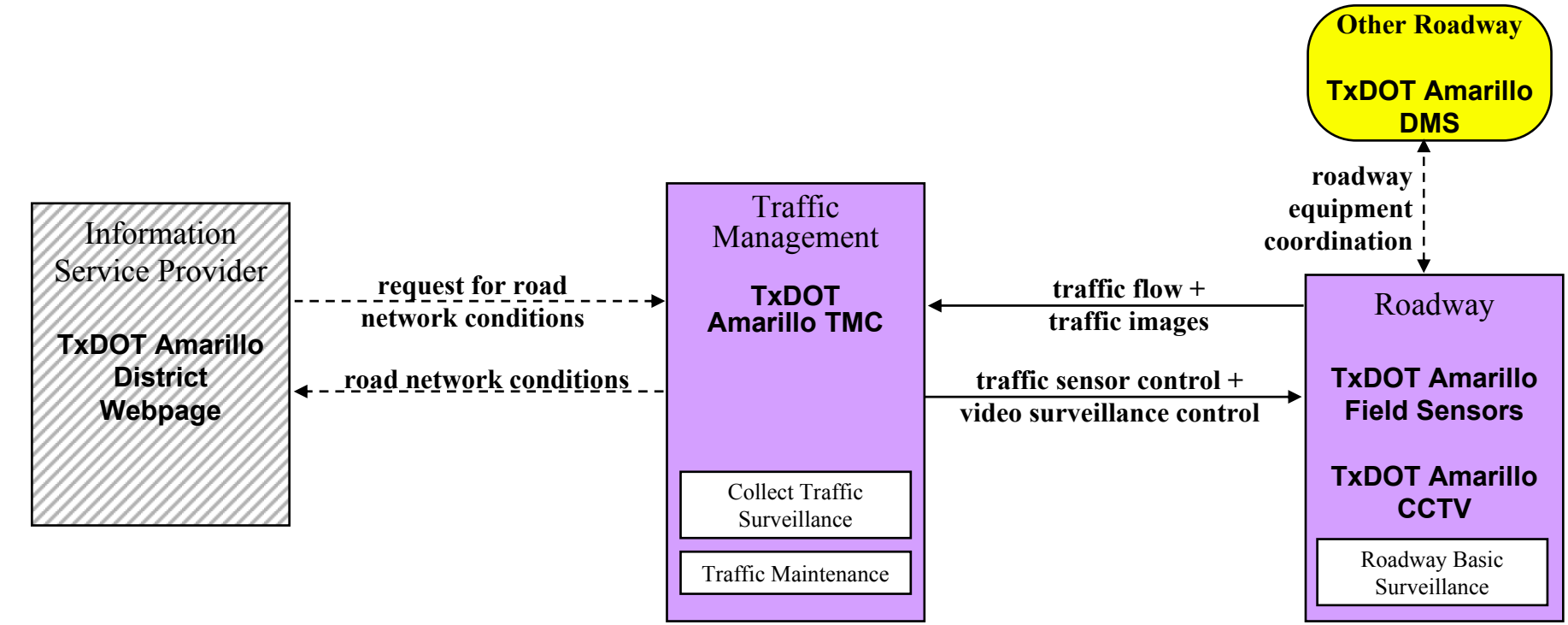
Advanced Traffic Management Systems (ATMS)

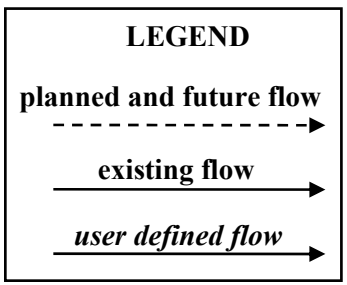
ATMS1 - Network Surveillance
City of Amarillo TOC





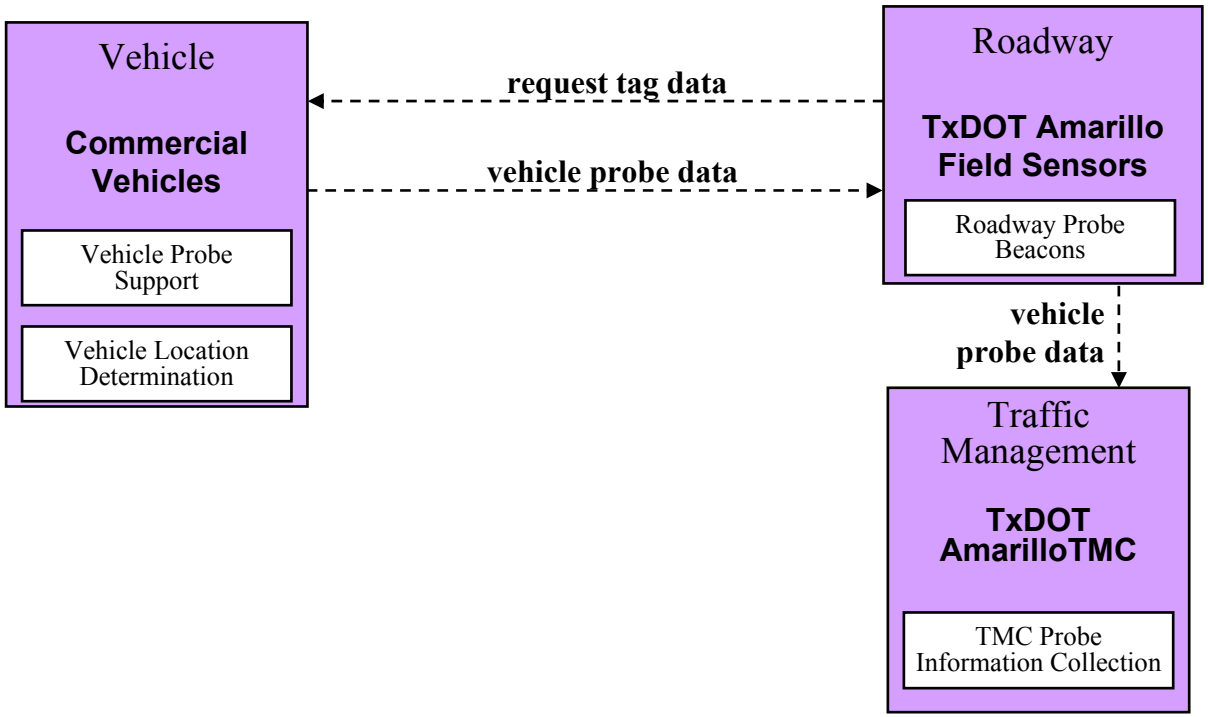
ATMS1 - Network Surveillance
TxDOT Amarillo TMC

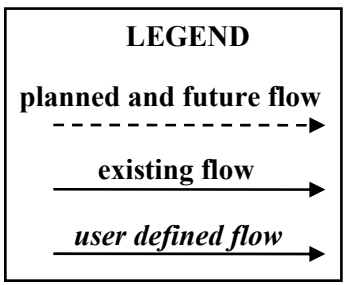




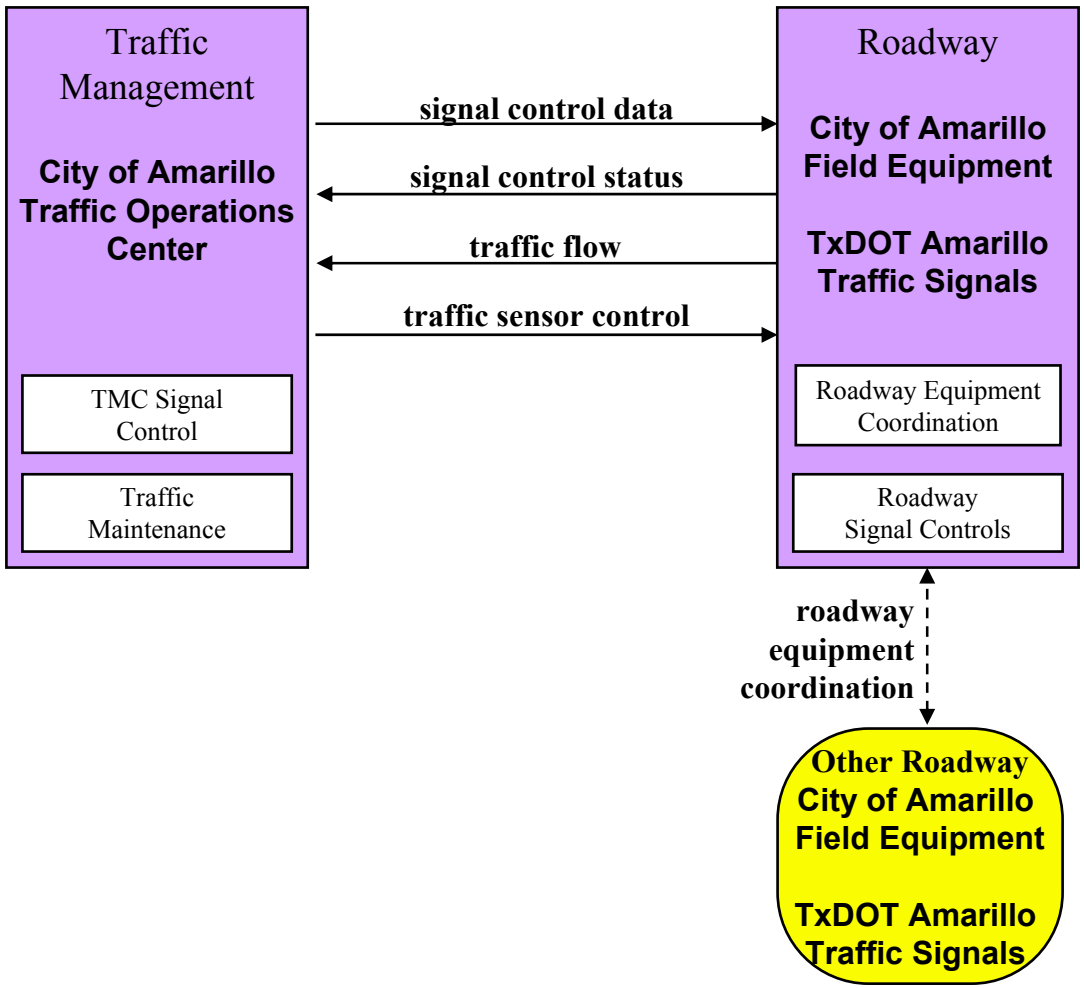
ATMS2 – Probe Surveillance

A future capability to use tags on commercial vehicles along I-40 to determine travel times and speeds.

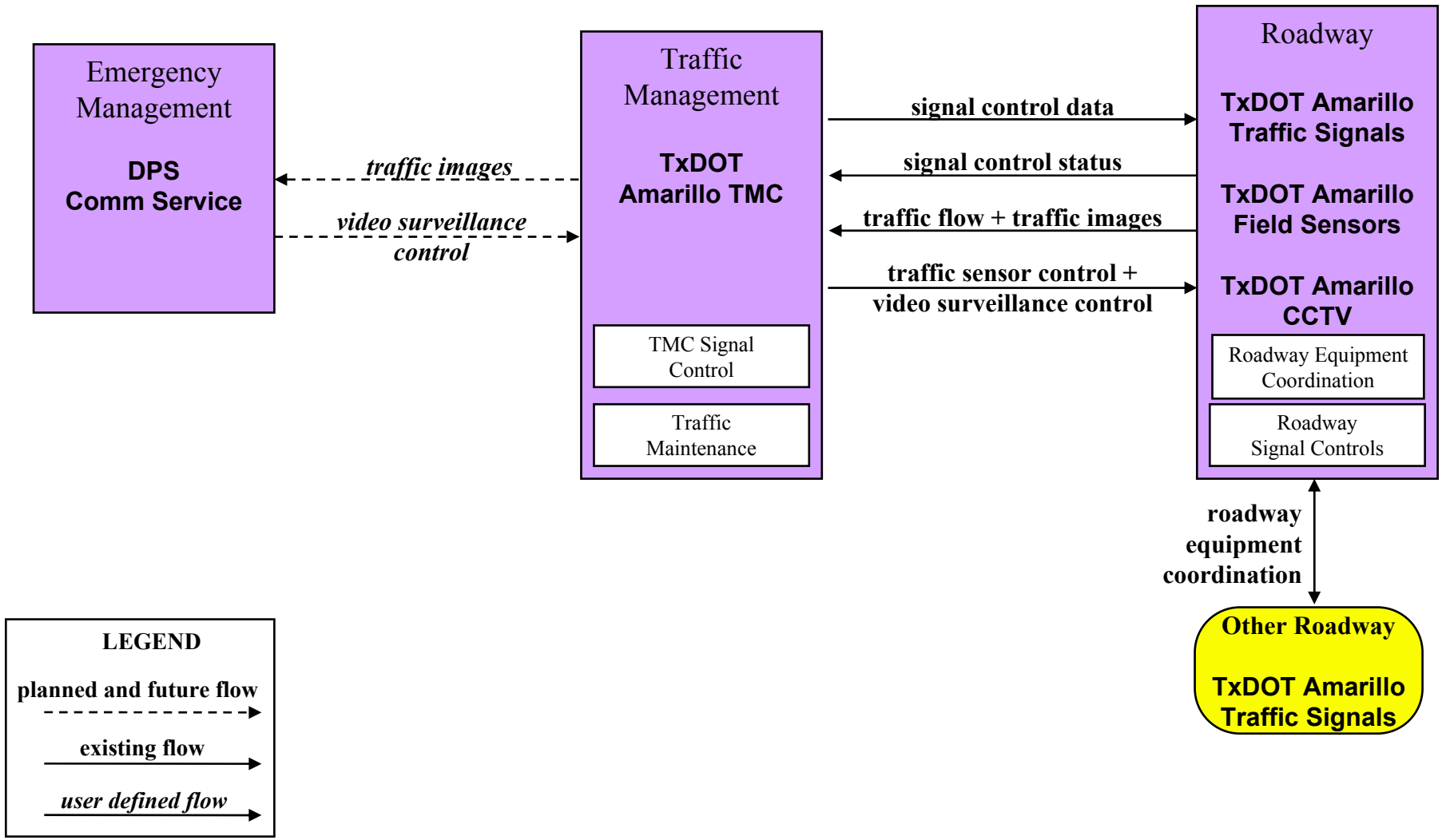




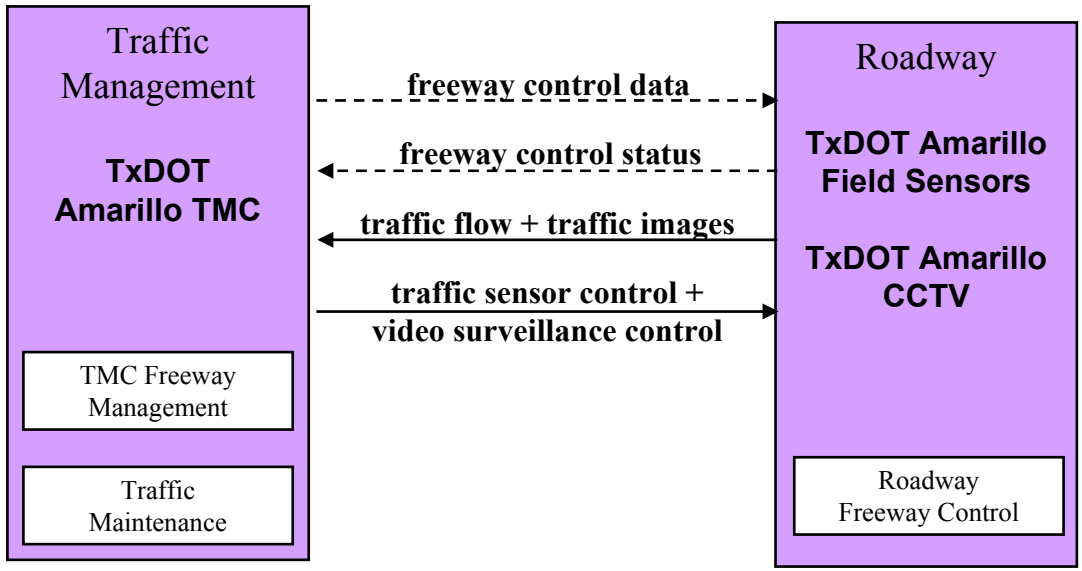
ATMS3 – Surface Street Control
City of Amarillo TOC

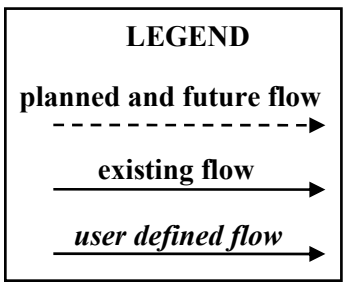


ATMS3 – Surface Street Control
TxDOT Amarillo TMC

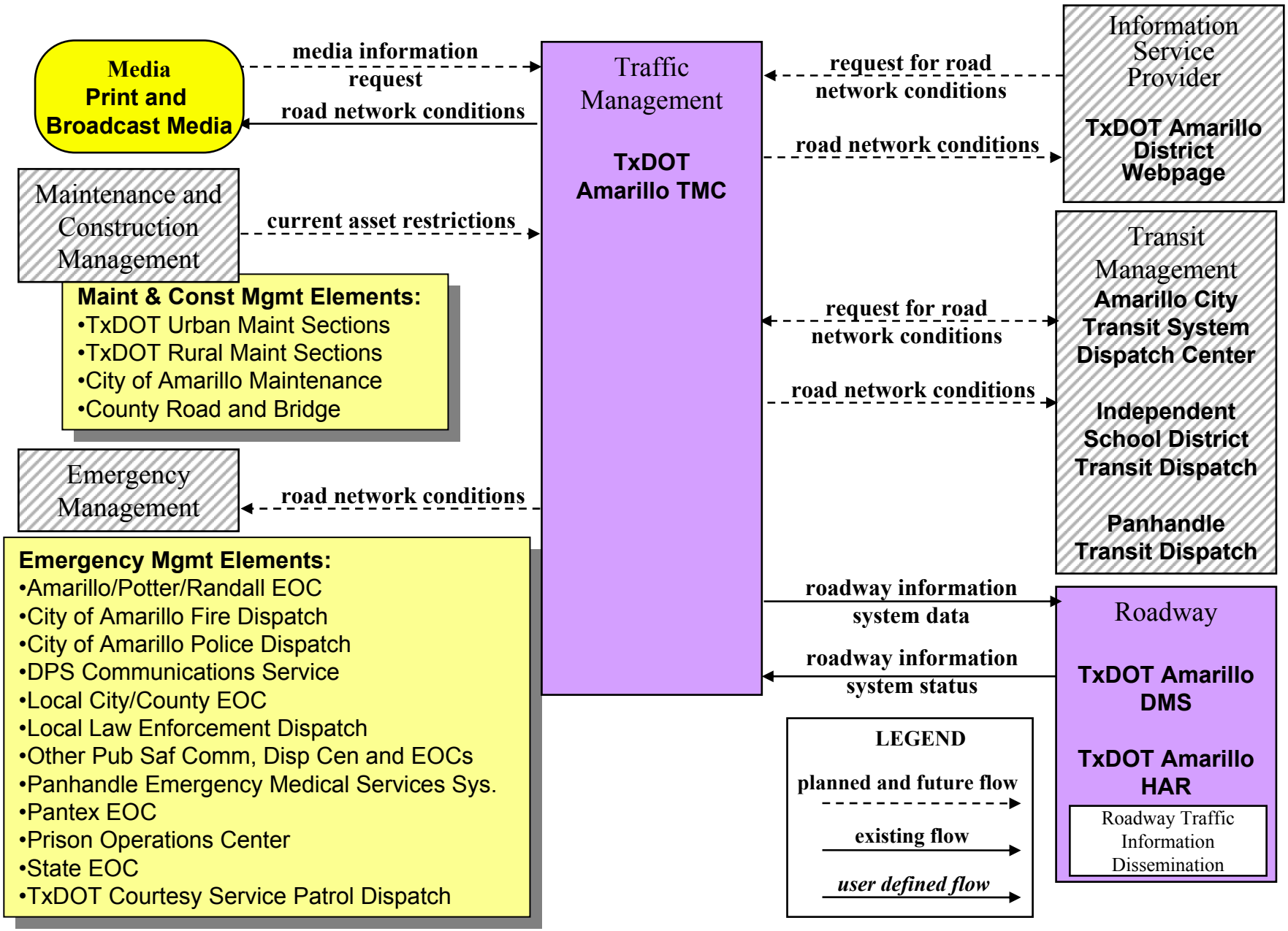


ATMS4 – Freeway Control
TxDOT Amarillo TMC

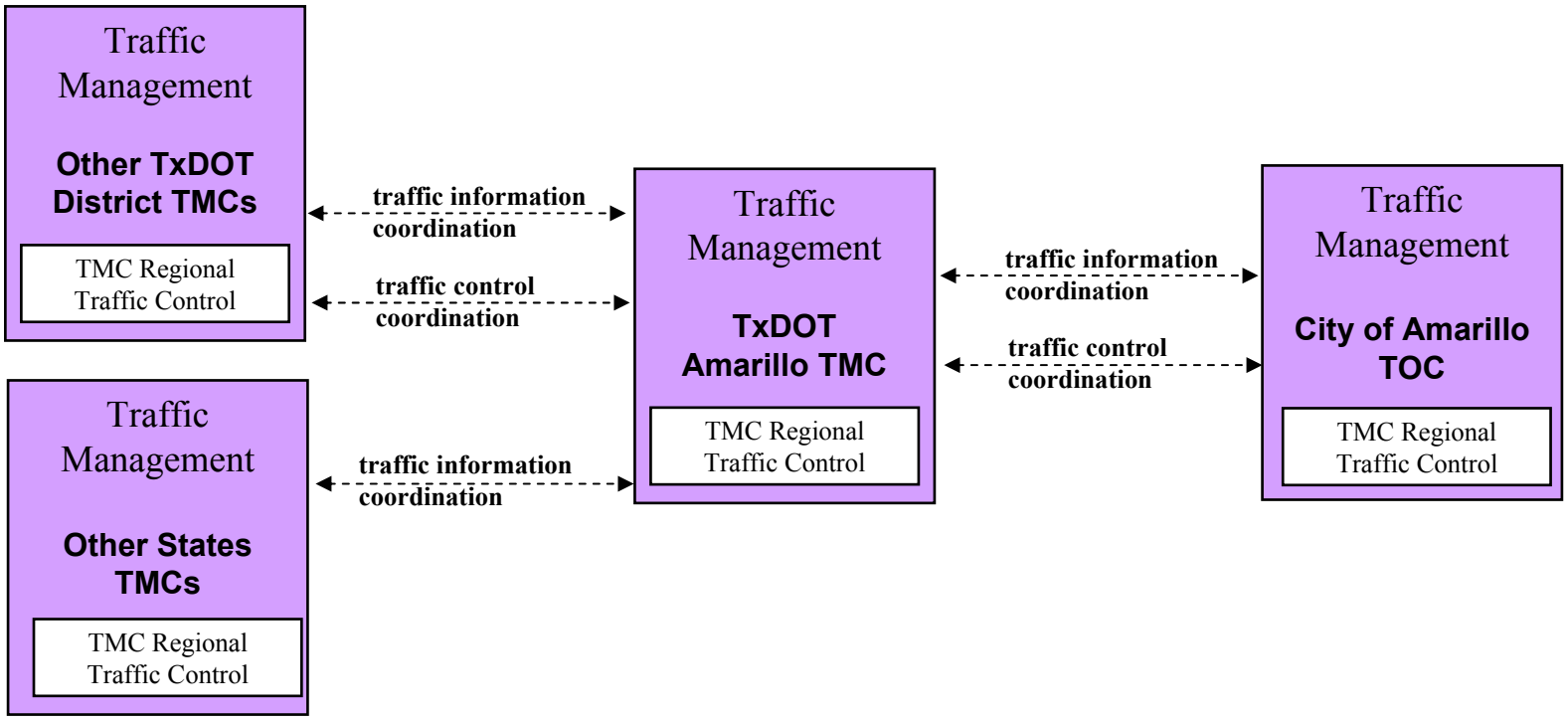


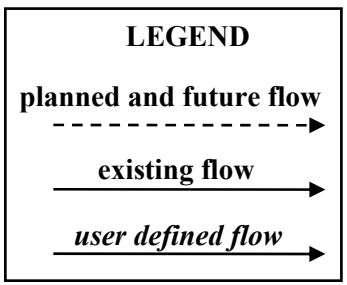


ATMS6 – Traffic Information Dissemination
TxDOT Amarillo TMC

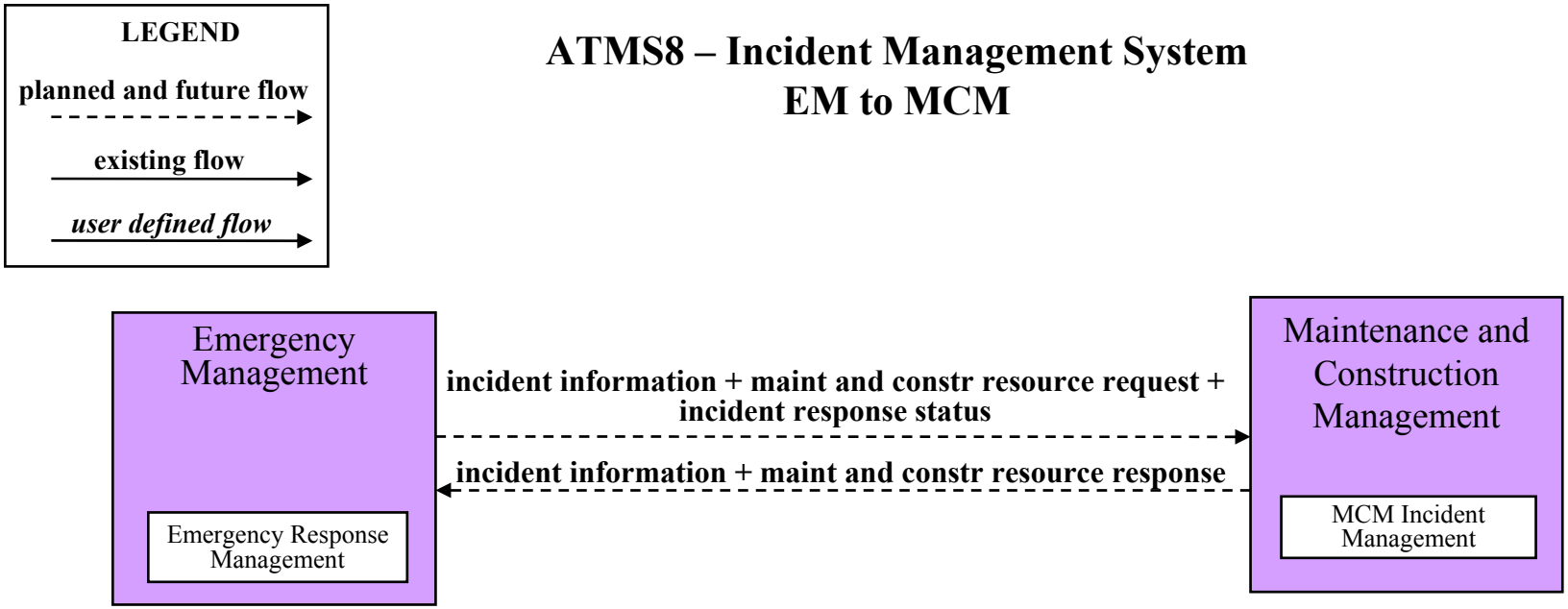


ATMS7 – Regional Traffic Control and Coordination





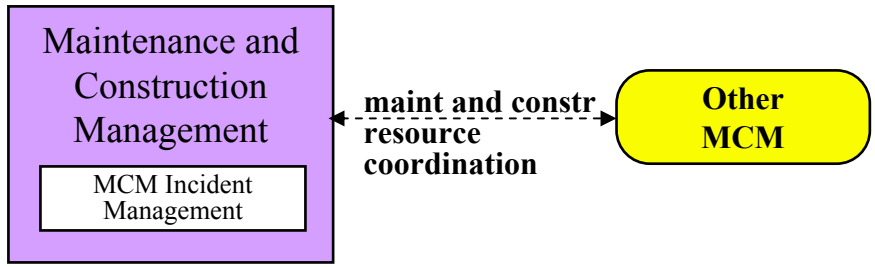
ATMS8 – Incident Management System
EM to MCM



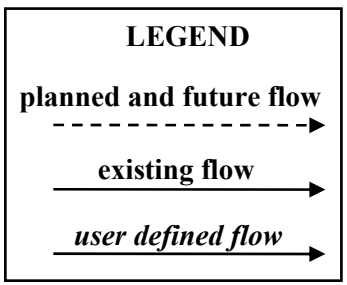
Emergency Management
Amarillo/Potter/Randall EOC - all except 6
City of Amarillo Fire Dispatch - 1, 3
City of Amarillo Police Dispatch - 1, 3
DPS Comm Service - all
Local City/County EOC - 2, 5
Local Law Enforcement Dispatch - all
Other Public Safety Comm, Dispatch Centers and EOCs - 2, 5, 7, 8
Panhandle EMS System (PEMSS) - all
Pantex EOC - 2, 5, 7, 8
Prison Operations Centers – incident - none, resource req/res - 2
TxDOT Courtesy Service Patrol Dispatch - 1, 2, 3, 7

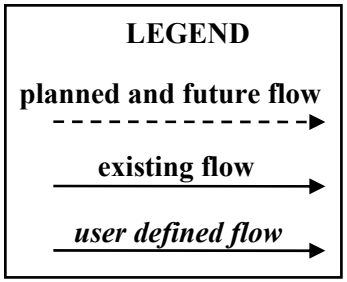
Maintenance and Construction Management
1.City of Amarillo Maintenance
2.TxDOT Rural Maintenance Sections
3.TxDOT Urban Maintenance Sections
4.Private Maintenance Dispatchers
5.County Road and Bridge
6.Other States Maintenance Sections
7. TxDOT Area Engineering
8. TxDOT Amarillo District (District engineer is in charge of all district operations)

ATMS8 – Incident Management System
(MCMS to Other MCM)

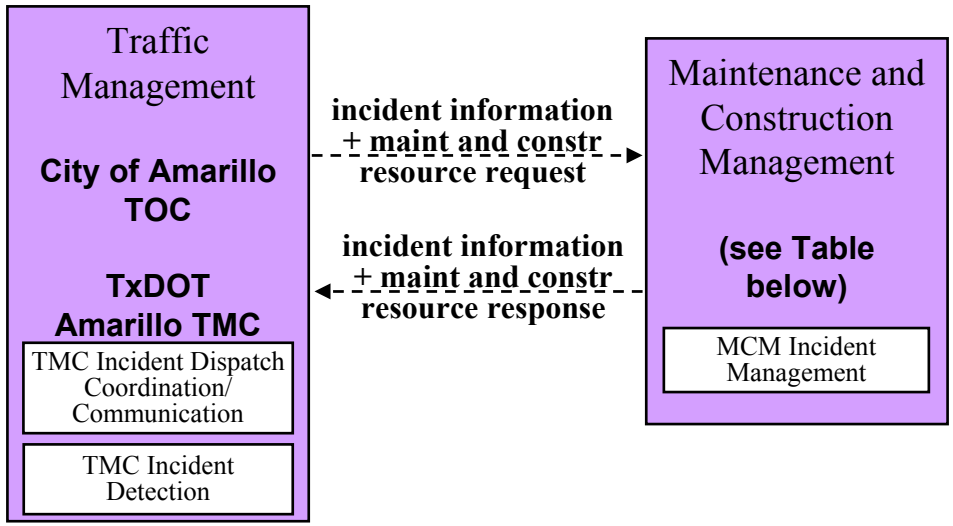


Maintenance and Construction Management Centers	City of Amarillo Maint	County Road and Bridge	Other States Maint Sections	Private Maint Dispatchers	TxDOT Rural Maint Sections	TxDOT Urban Maint Sections
City of Amarillo Maintenance		√		√	√	√
County Road and Bridge	√		√	√	√	√
Other States Maintenance Sections		√		√	√	√
Private Maintenance Dispatchers	√	√	√		√	√
TxDOT Rural Maintenance Sections	√	√	√	√		√
TxDOT Urban Maintenance Sections	√	√	√	√	√	



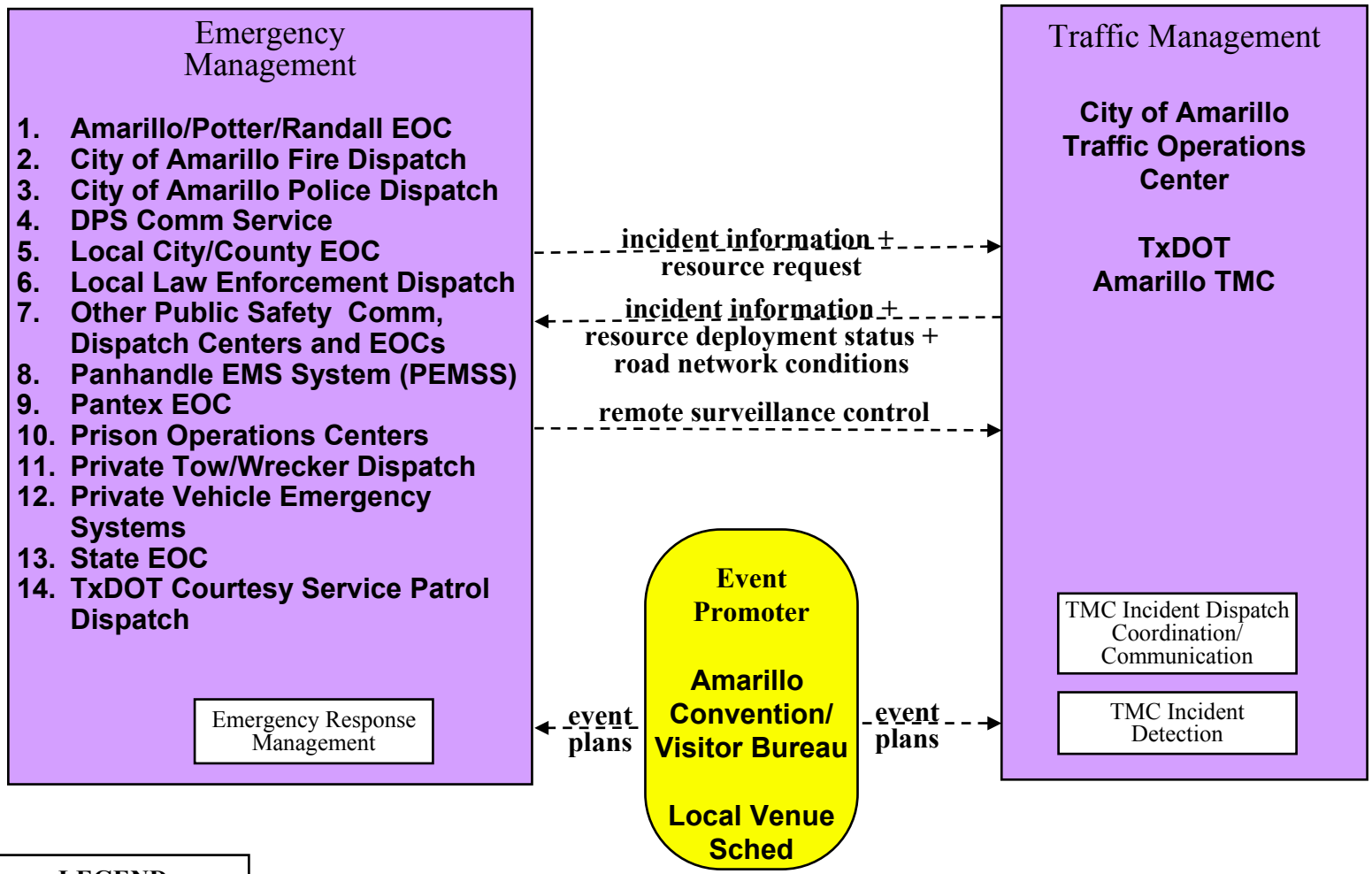


ATMS8 – Incident Management System (TM to MCM)



	City of Amarillo TOC		TxDOT Amarillo TMC	
ARCHITECTURE FLOW →	**incident information**	**maint and constr resource request + resourceresponse**	**incident information**	**maint and constr resource request + resource response**
Maintenance and Construction Management Center				
City of Amarillo Maintenance	√	√	√	√
TxDOT Rural Maintenance Sections			√	√
TxDOT Urban Maintenance Sections	√	√	√	√
Private Maintenance Dispatchers			√	√
County Road and Bridge	√	√	√	√
Other States Maintenance Sections			√	√

ATMS8 – Incident Management System
(EM to TM – 1 of 3)



LEGEND

planned and future flow

existing flow

user defined flow

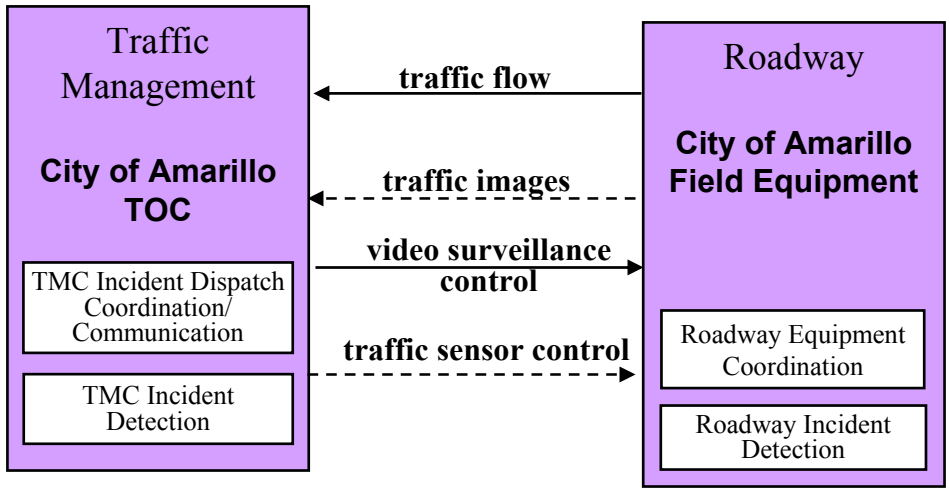
ATMS8 – Incident Management System
(EM to TM – 2 of 3)

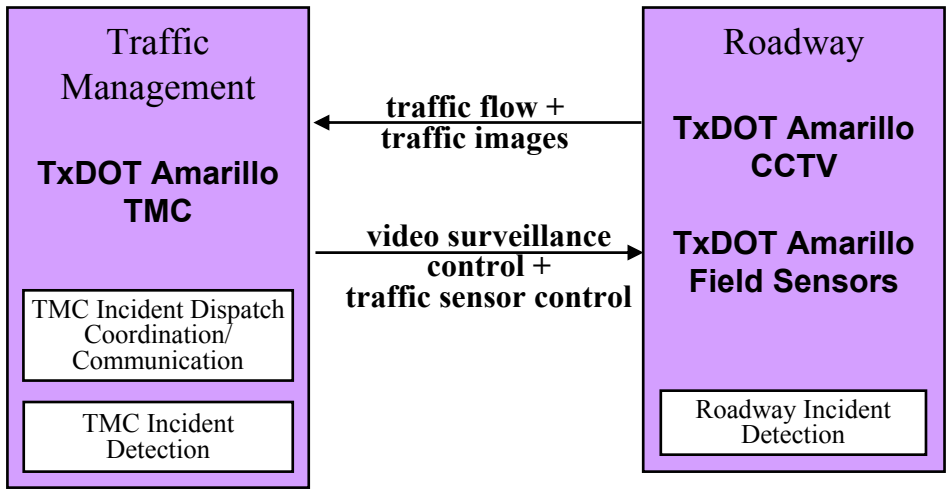
	City of Amarillo TOC			TxDOT Amarillo TMC		
ARCHITECTURE FLOW →	**incd. info + road netw. conditions**	**resource request + resource depl. status**	**remote surveillance control**	**incd. info + road netw. conditions**	**resource request + resource depl. status**	**remote surveillance control**
Emergency Management Center						
Amarillo/Potter/Randall EOC	√	√		√	√	
City of Amarillo Fire Dispatch	√	√		√	√	
City of Amarillo Police Dispatch	√	√		√	√	
DPS Comm Service	√	√		√	√	√
Local City/County EOC				√	√	
Local Law Enforcement Dispatch	√	√		√	√	
Other Public Safety Comm, Dispatch Centers and EOCs				√	√	
Panhandle EMS System (PEMSS)	√	√		√	√	
Pantex EOC	√	√		√	√	
Prison Operations Centers	√	√		√	√	
Private Tow/Wrecker Dispatch	√			√		
Private Vehicle Emergency System		√		√	√	
State EOC		√		√	√	
TxDOT Courtesy Service Patrol Dispatch	√	√		√	√	√

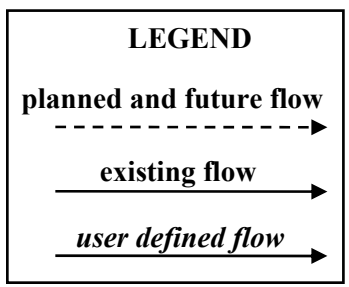
ATMS8 – Incident Management System (EM to TM – 3 of 3)

TERMINATOR →	Amarillo Convention/ Visitor Bureau	Local Venue Event Scheduling System
ARCHITECTURE FLOW →	event plans	event plans
Emergency Management Center		
Amarillo/Potter/Randall EOC		
City of Amarillo Fire Dispatch		
City of Amarillo Police Dispatch	√	√
DPS Comm Service	√	√
Local City/County EOC		
Local Law Enforcement Dispatch	√	√
Other Public Safety Comm, Dispatch Centers and EOCs		
Panhandle EMS System (PEMSS)	√	√
Pantex EOC		
Prison Operations Centers		
Private Tow/Wrecker Dispatch		
Private Vehicle Emergency Systems		
State EOC		
TxDOT Courtesy Service Patrol Dispatch		
Traffic Management Center		
City of Amarillo TOC	√	√
TxDOT Amarillo TMC	√	√

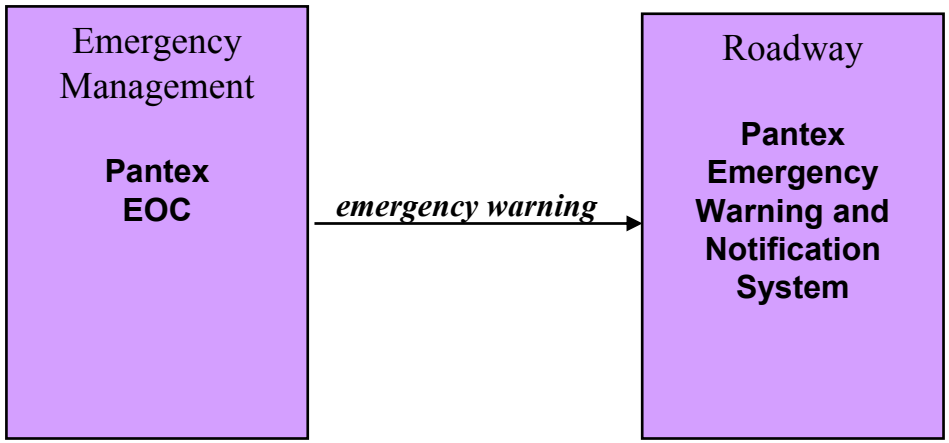
ATMS8 – Incident Management System
City of Amarillo/ TxDOT TMC Roadside Element Interface





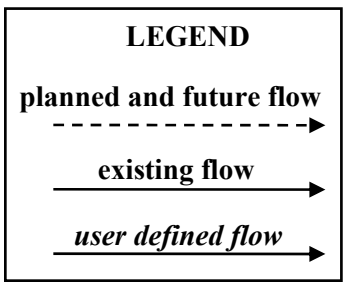


ATMS8 – Incident Management System
Pantex EOC

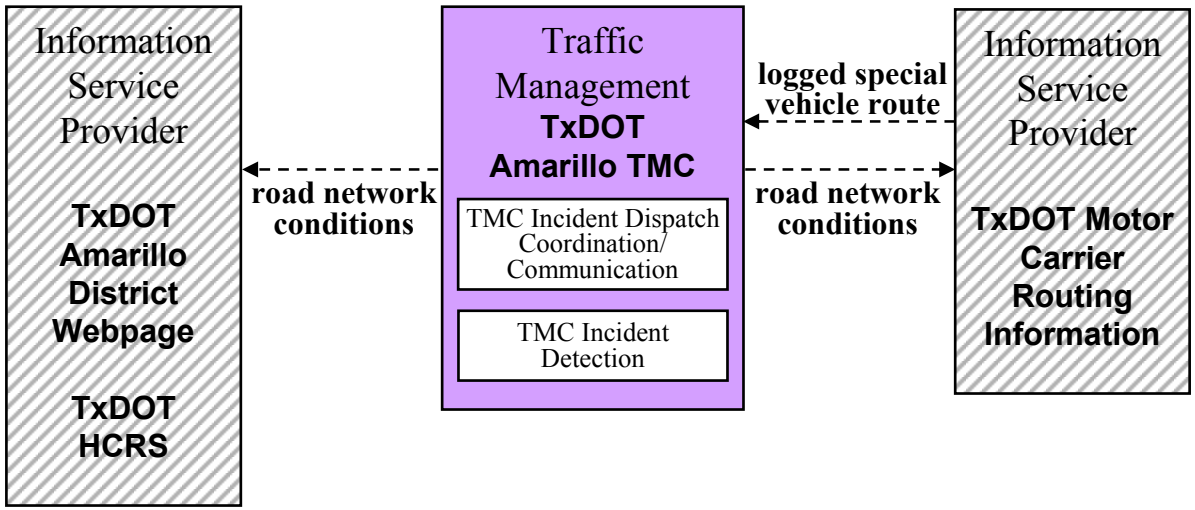


'emergency warning' is a user-defined flow.

The Pantex EWNS is a radio-based system installed in people's homes and in businesses.



ATMS8 – Incident Management System
(TM to ISP) TxDOT Amarillo TMC



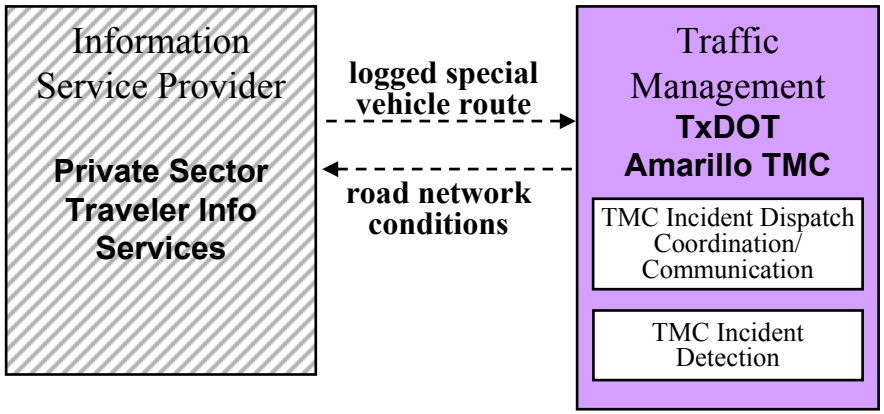
LEGEND

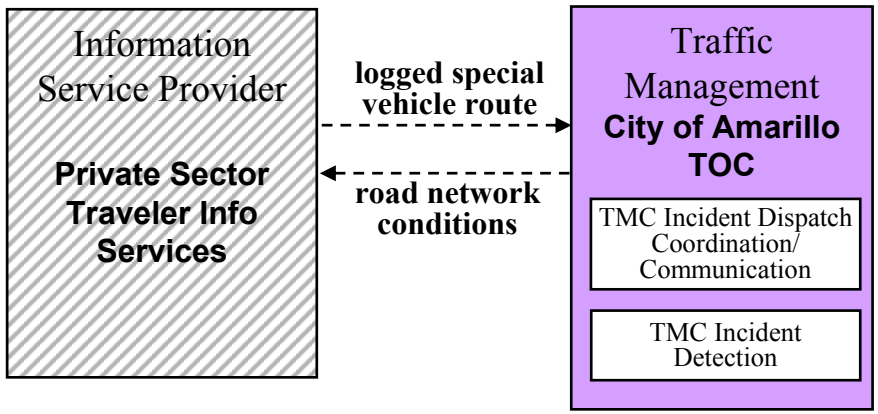
planned and future flow

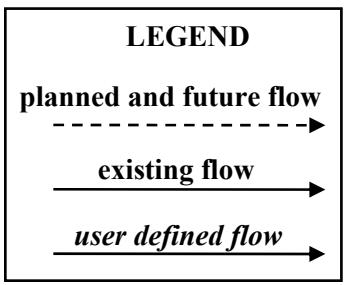
existing flow

user defined flow

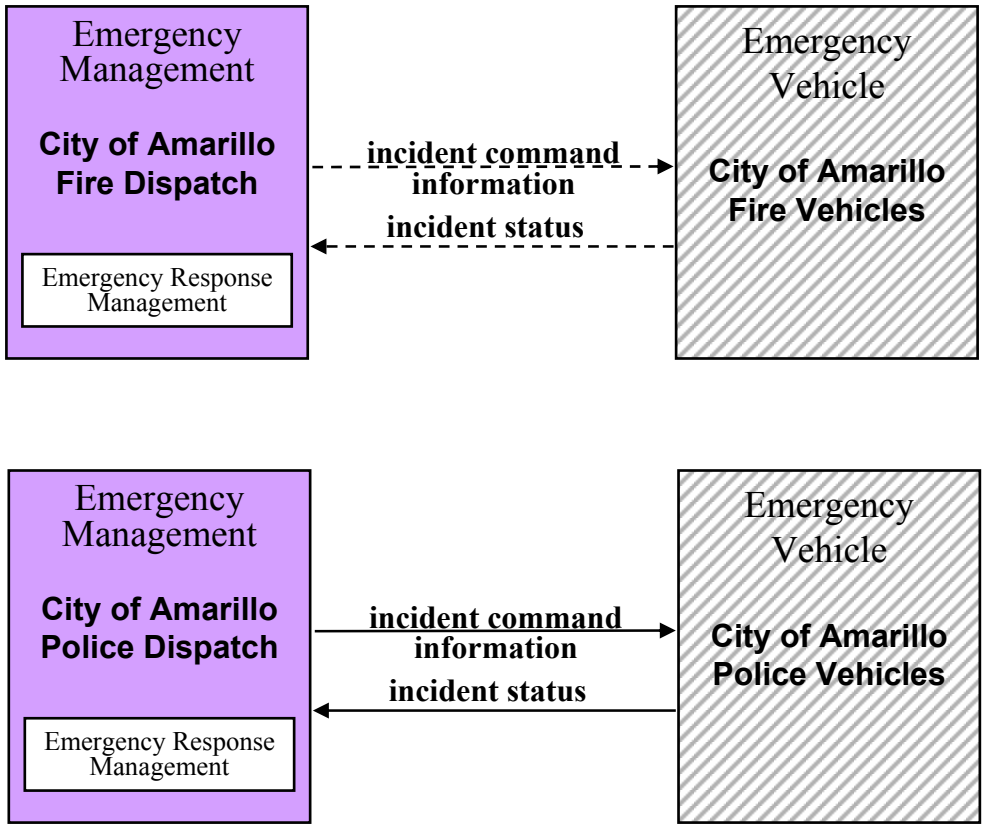
ATMS8 – Incident Management System
(TM to ISP) TxDOT Amarillo TMC, City of Amarillo TOC







ATMS8 – Incident Management System
(EM to EV) City of Amarillo Fire Dispatch, Police Dispatch



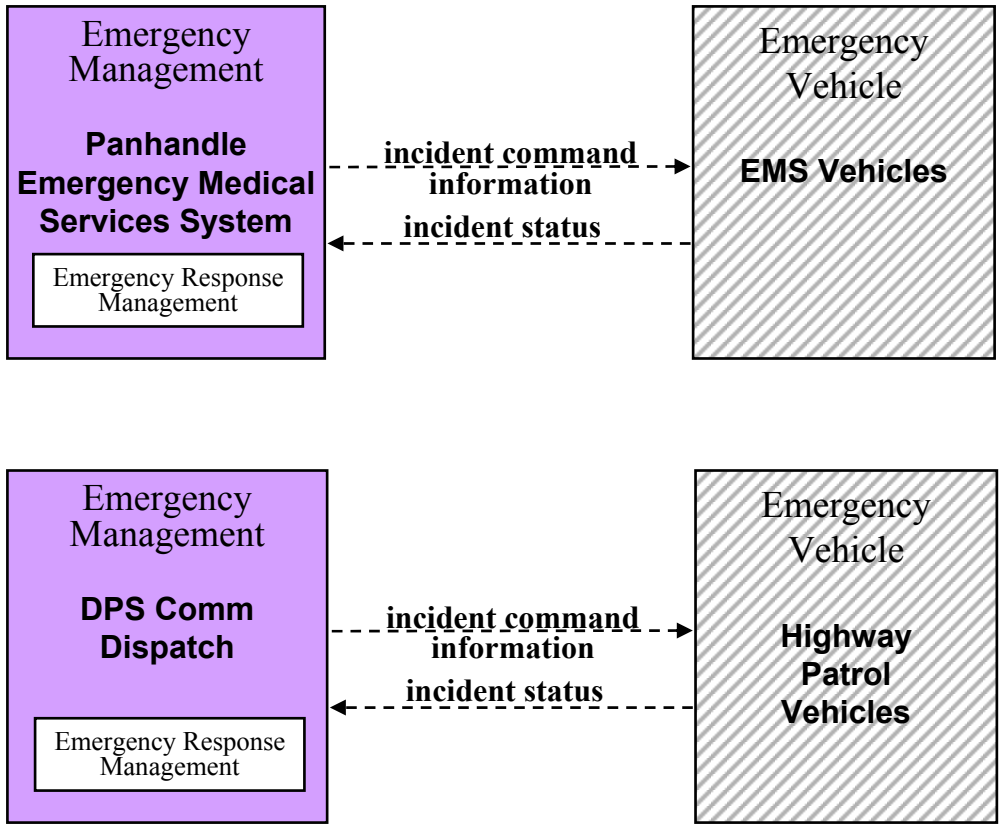
LEGEND

planned and future flow

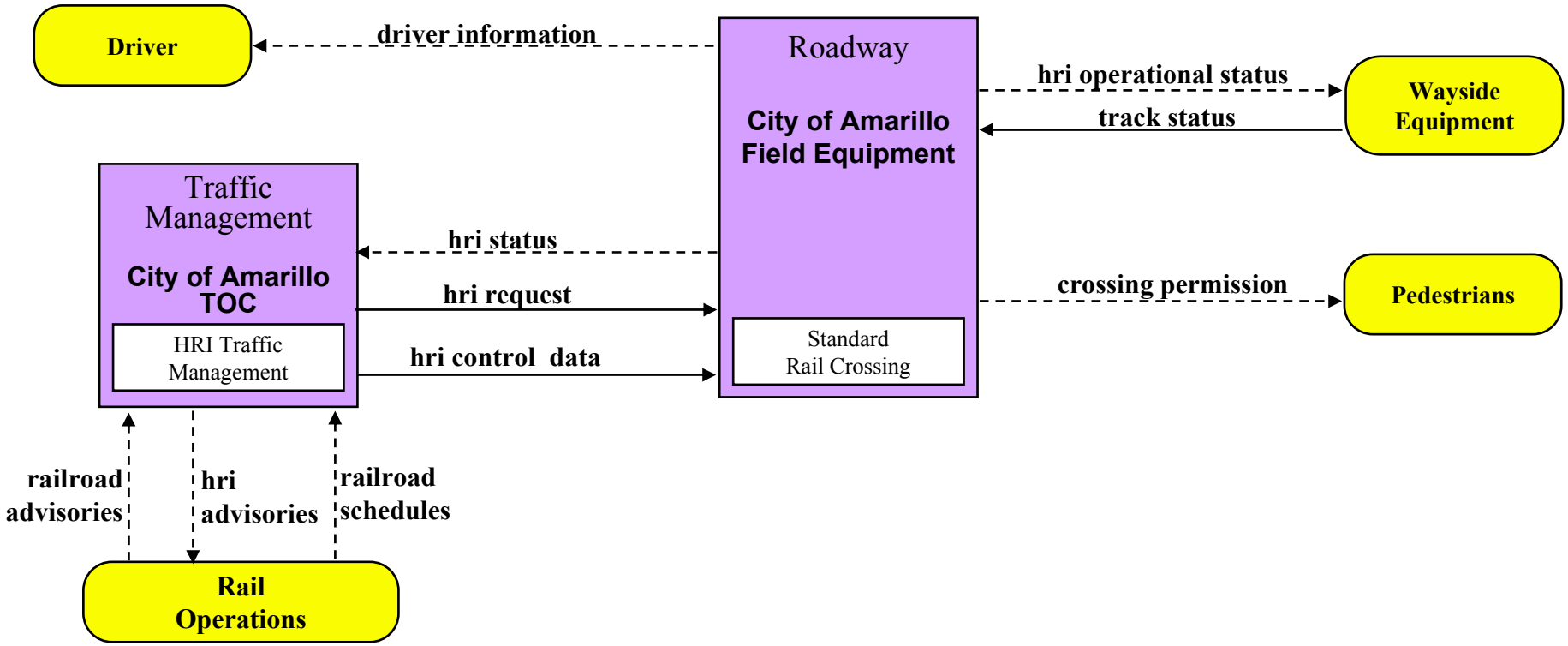
existing flow

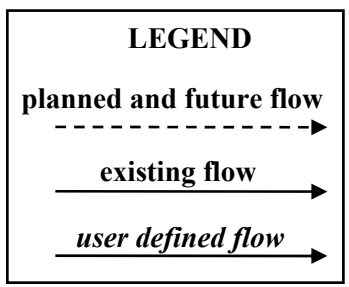
user defined flow

ATMS8 – Incident Management System
(EM to EV) Panhandle Emergency Medical Services, DPS Comm Dispatch

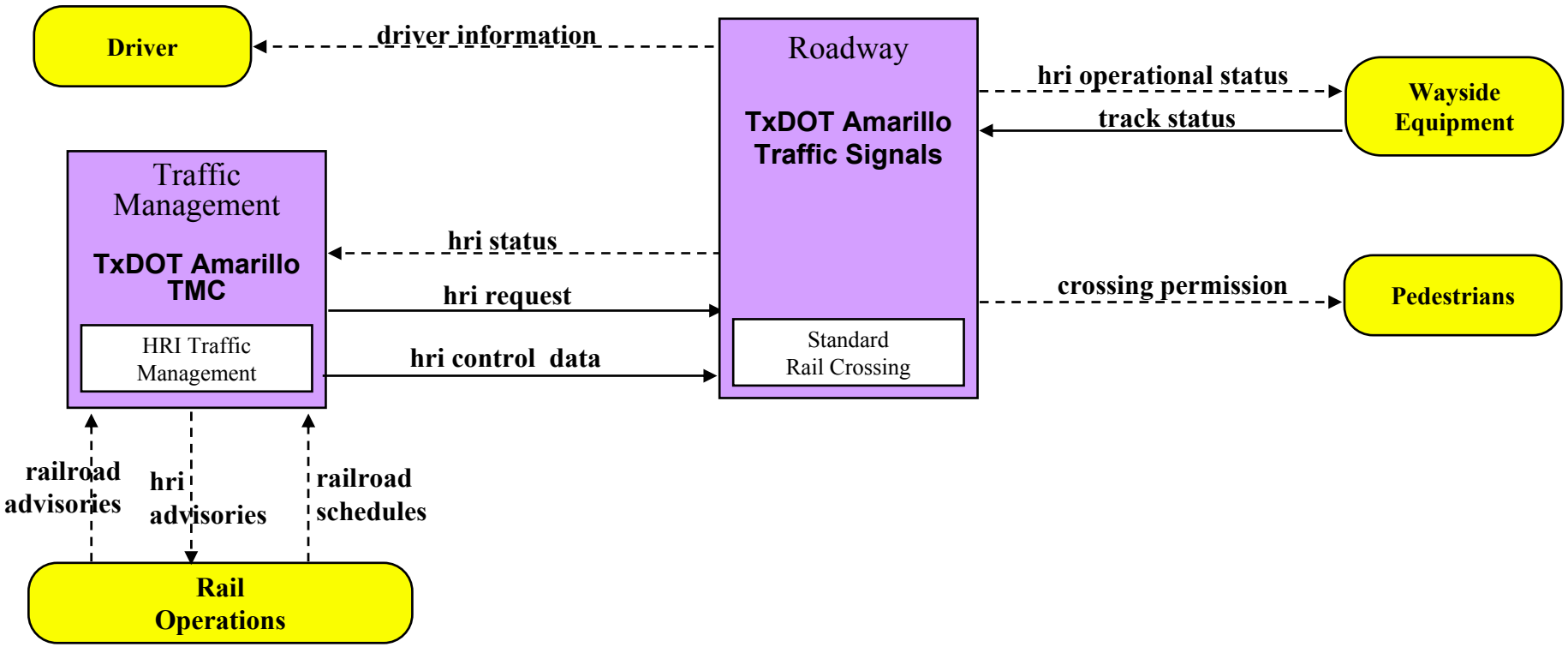


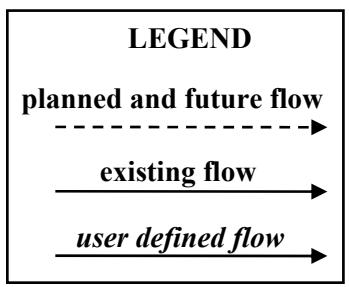
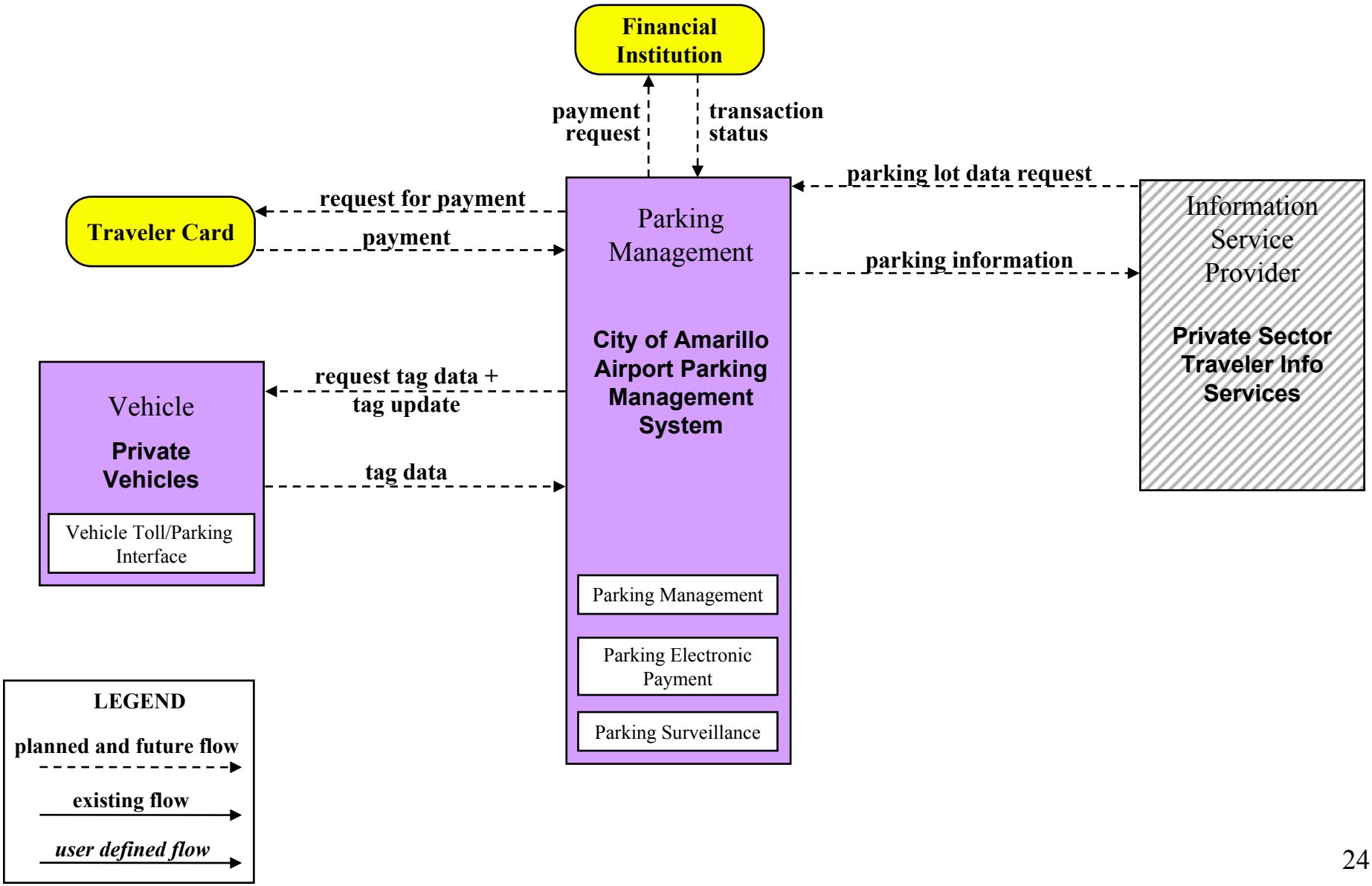
ATMS13/ATMS15 - Standard Railroad Grade Crossing / Railroad Operations Coord
City of Amarillo





ATMS13/ATMS 15 - Standard Railroad Grade Crossing/ Railroad Operations Coord
TxDOT Amarillo TMC





ATMS16 – Parking Facility Management
City of Amarillo Airport