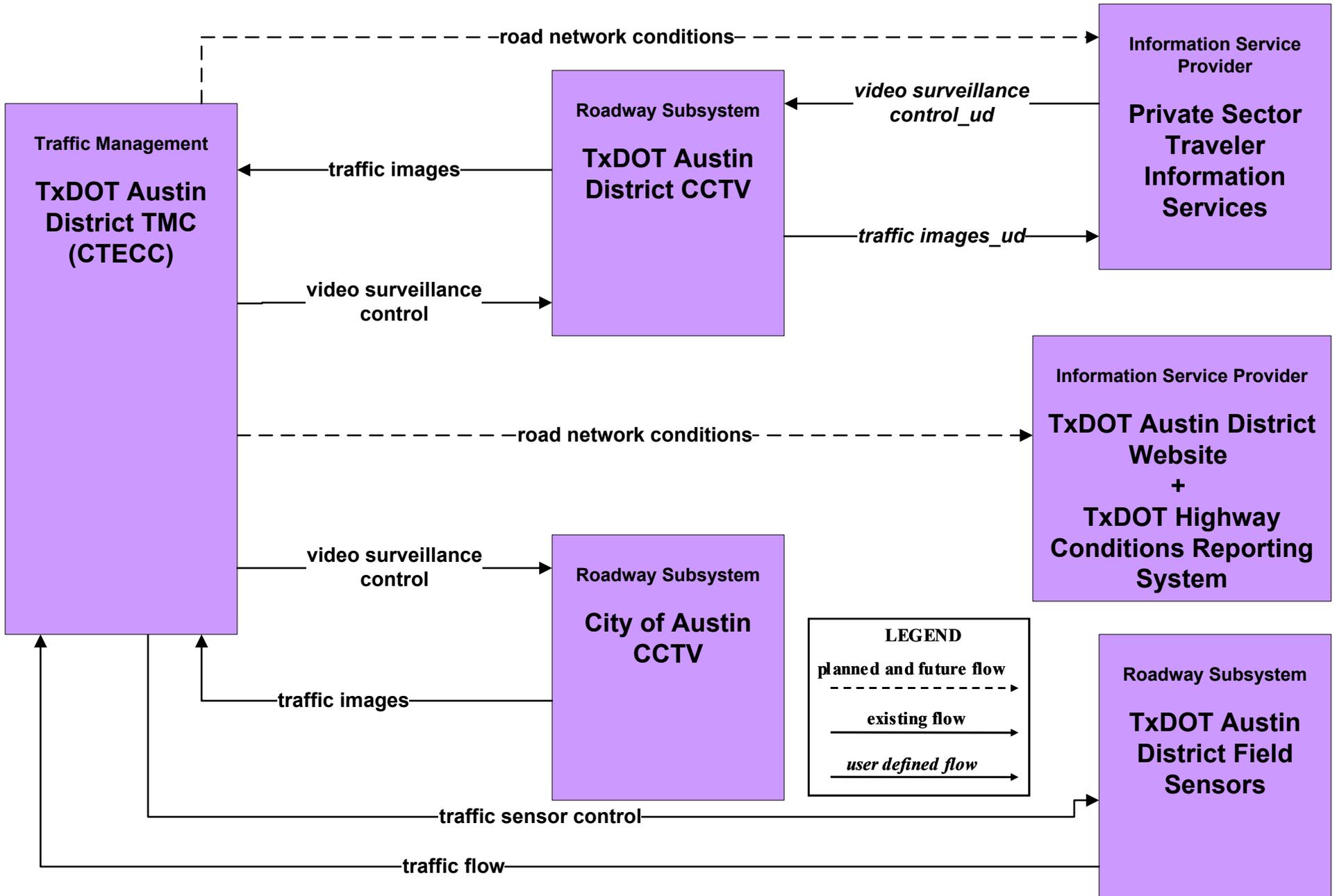


Austin Regional ITS Architecture

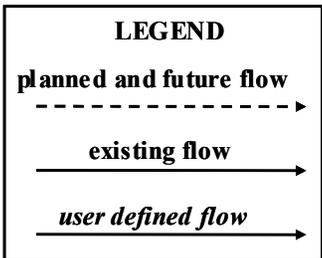
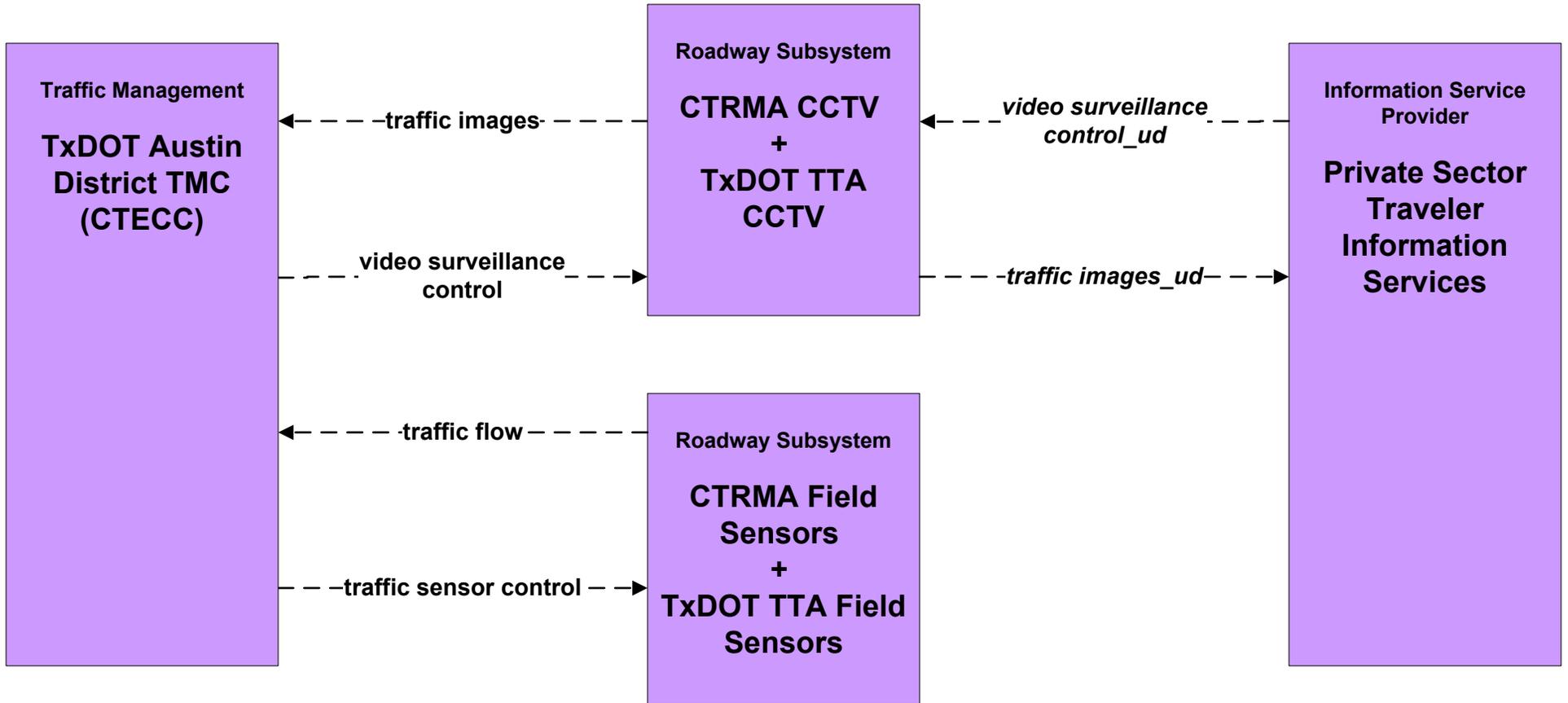
Customized Market Package Diagrams

**Advanced Traffic Management Systems
(ATMS)**

ATMS01 - Network Surveillance
TxDOT Austin District TMC (CTECC) (1 of 2)

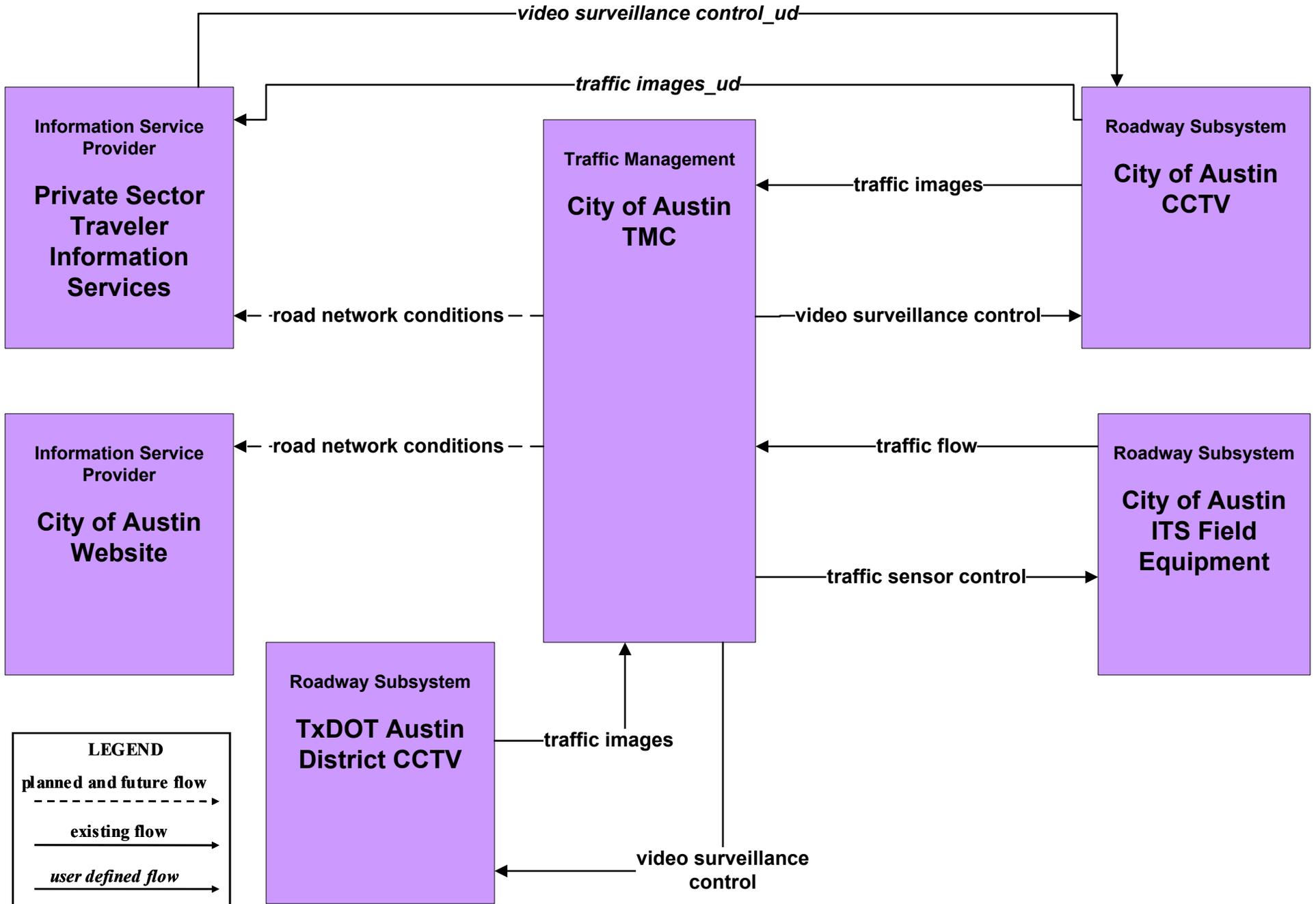


ATMS01 - Network Surveillance
TxDOT Austin District TMC (CTECC) (2 of 2)

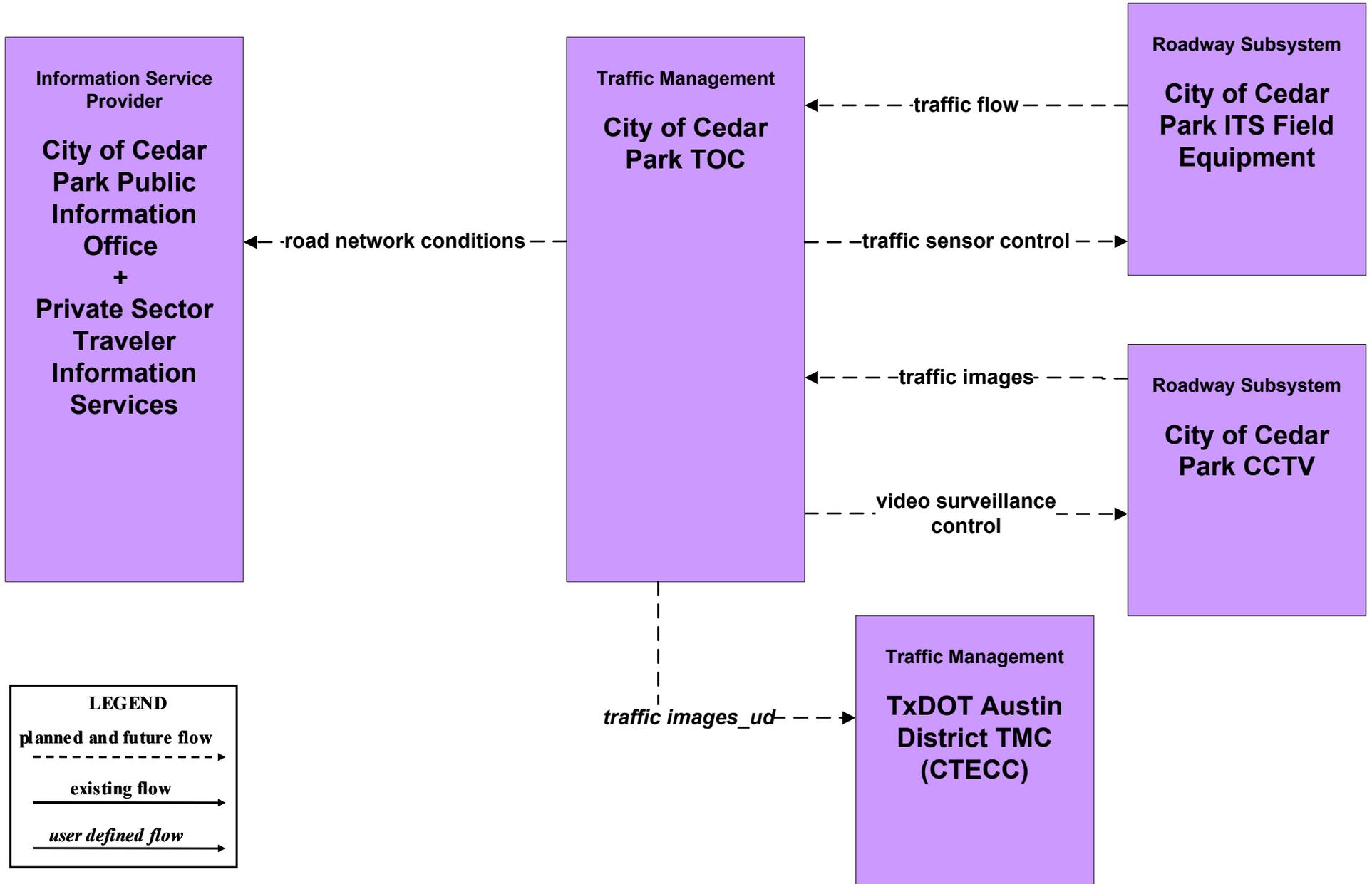


TxDOT will control CTRMA and TTA CCTV and field sensors

ATMS01 - Network Surveillance City of Austin Traffic Management Center

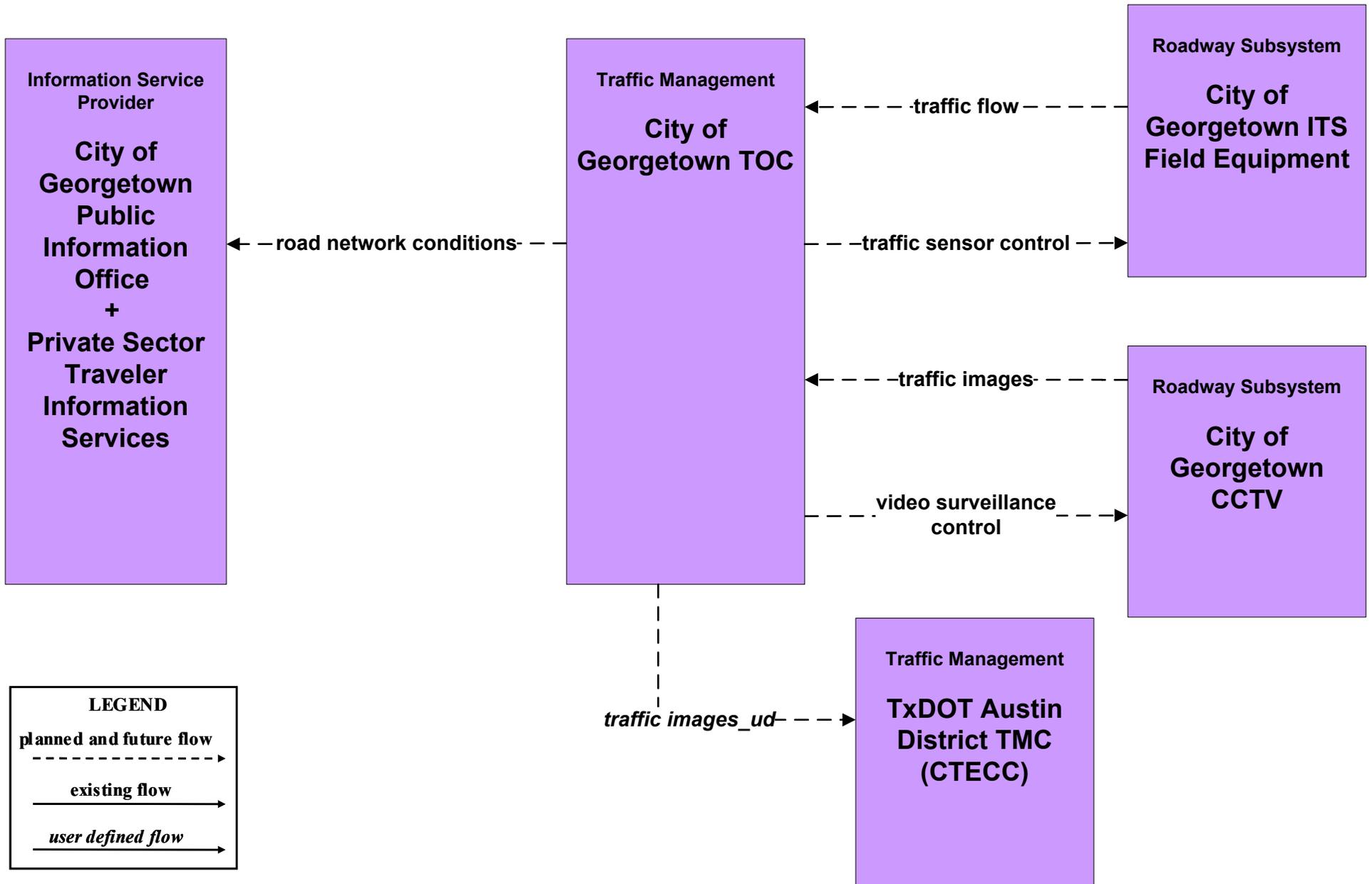


ATMS01 - Network Surveillance
City of Cedar Park Traffic Management Center

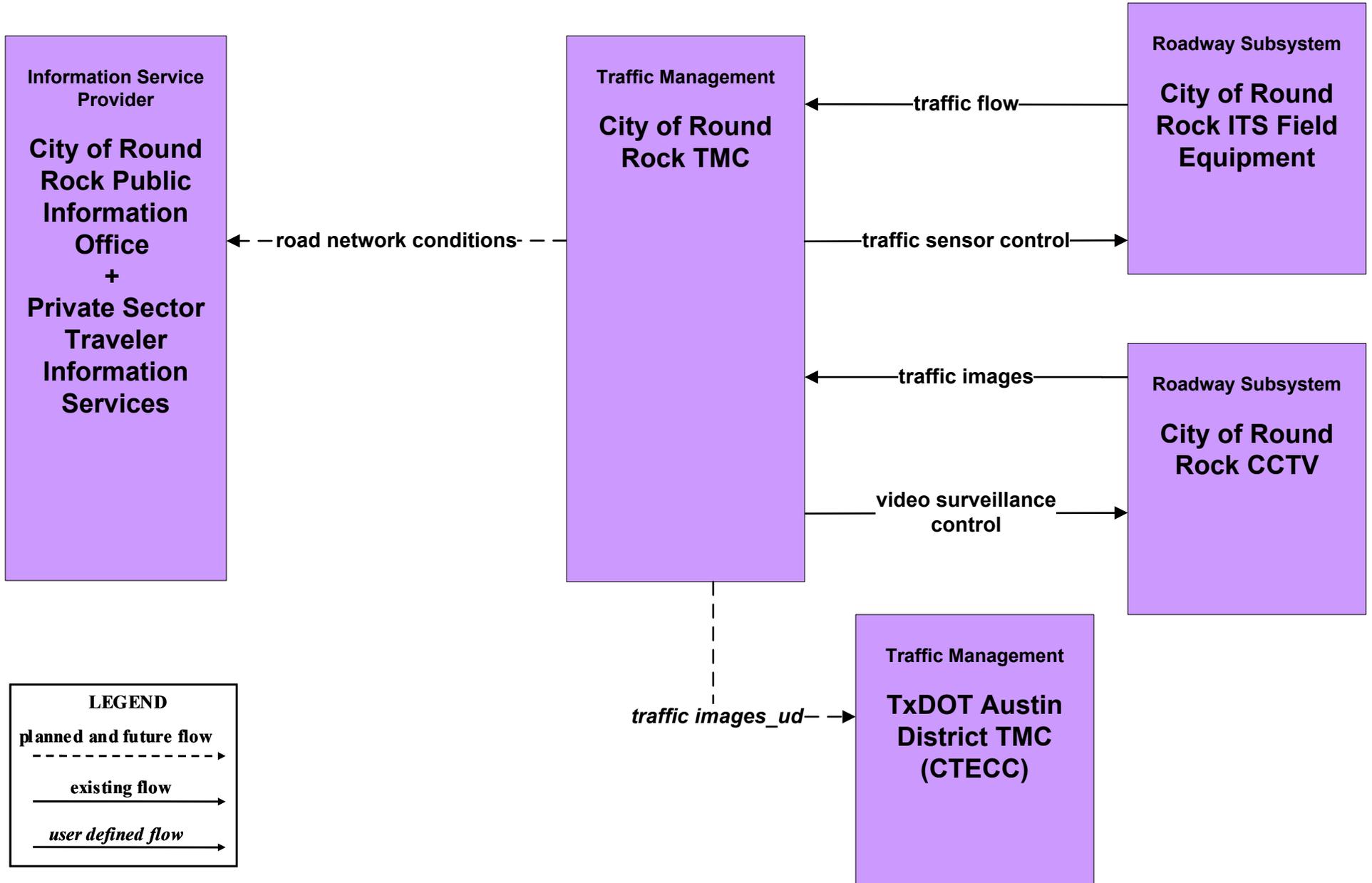


ATMS01 - Network Surveillance

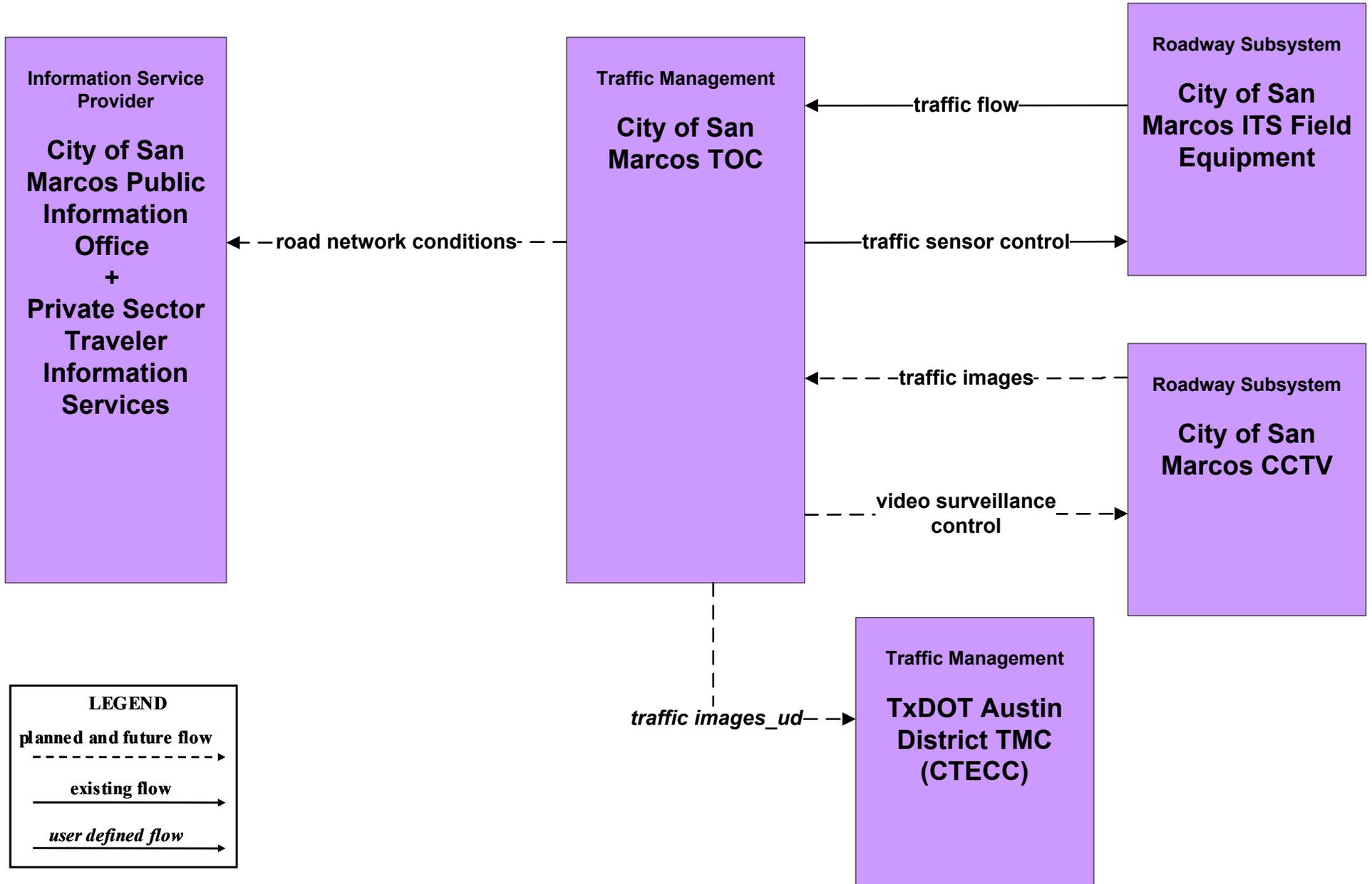
City of Georgetown Traffic Management Center



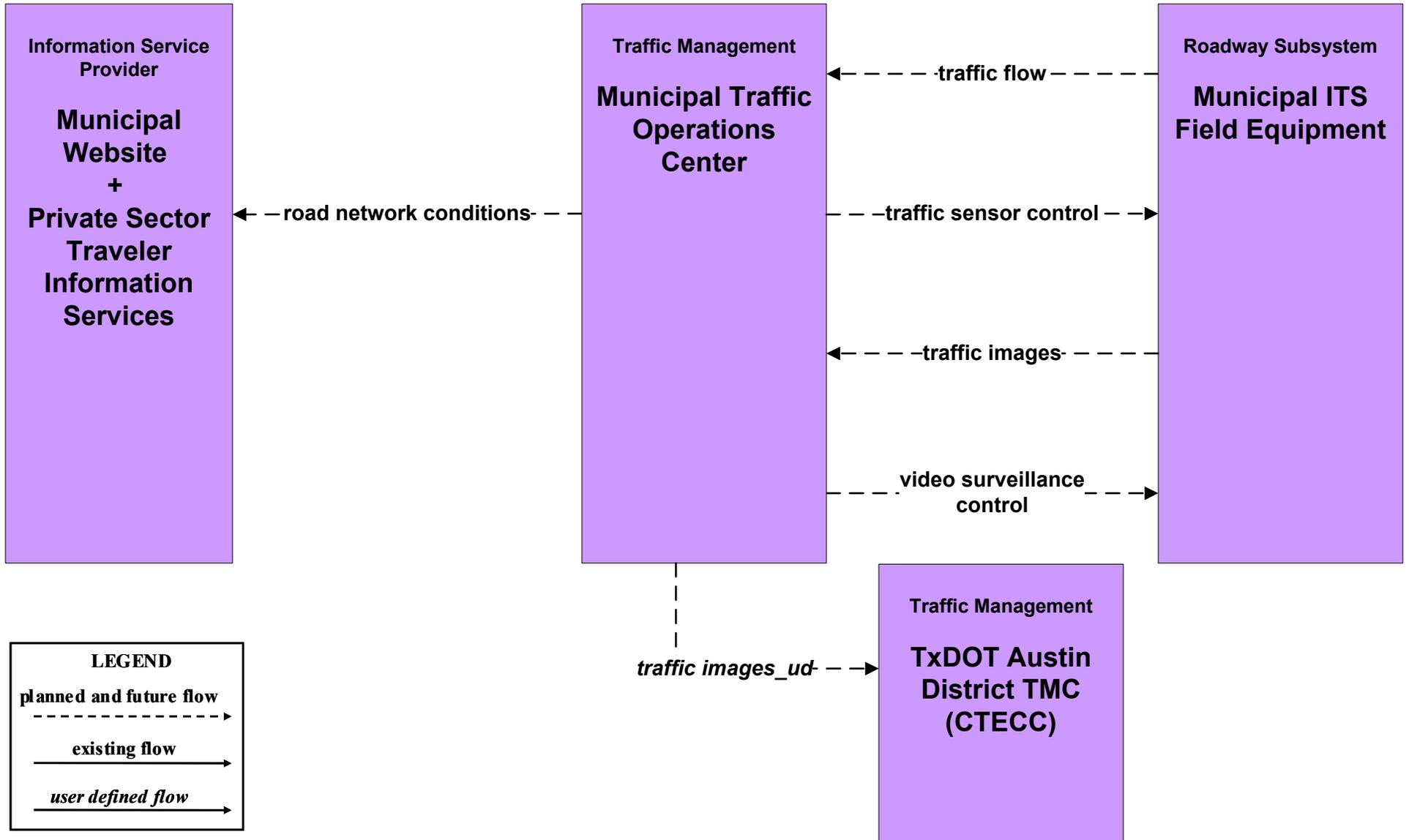
ATMS01 - Network Surveillance
City of Round Rock Traffic Management Center



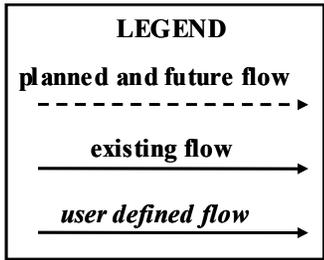
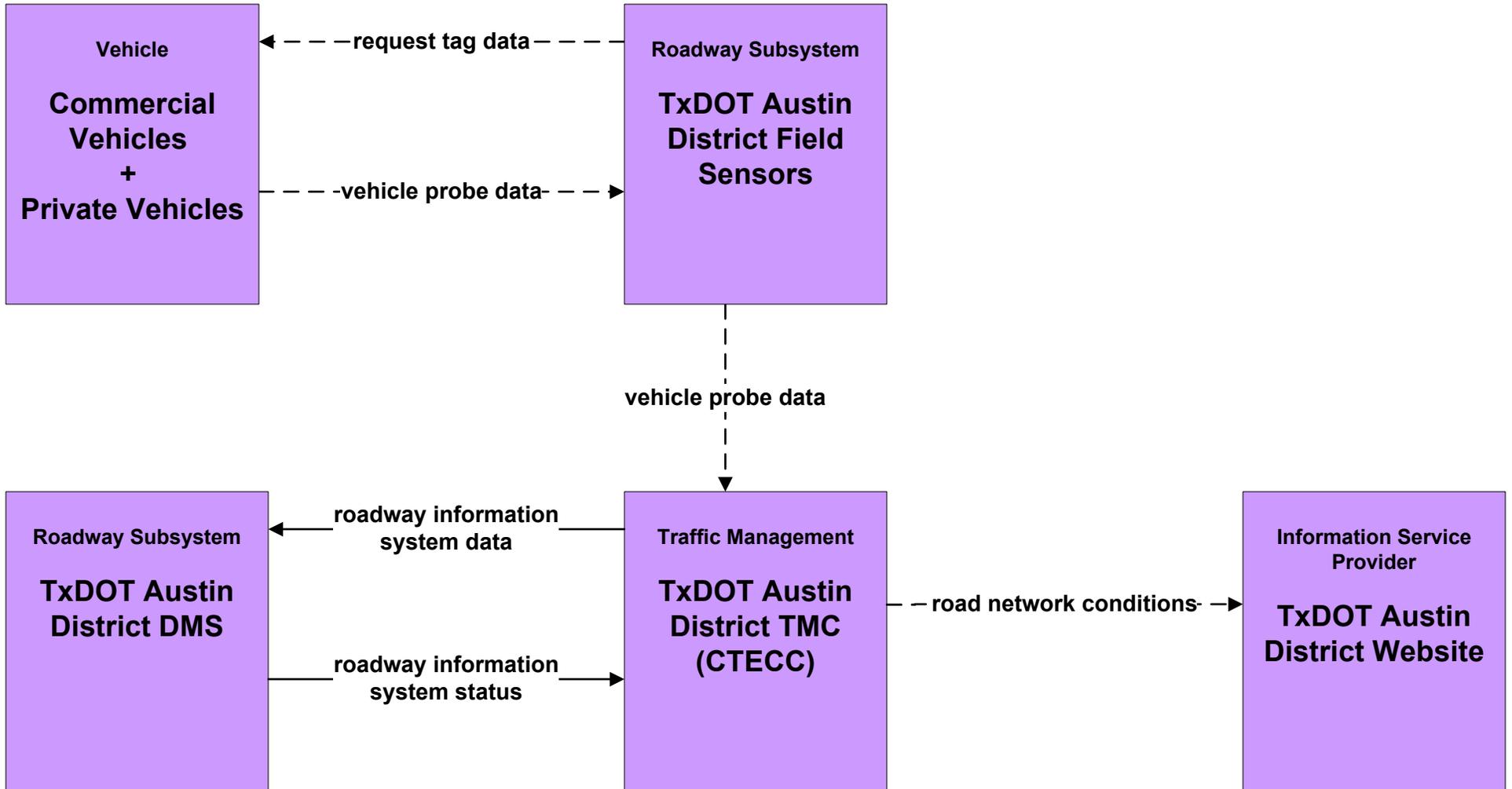
ATMS01 - Network Surveillance
City of San Marcos Rock Traffic Management Center



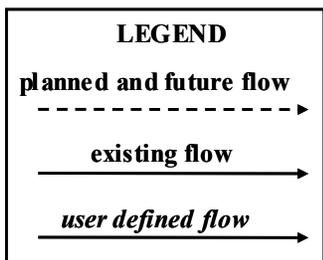
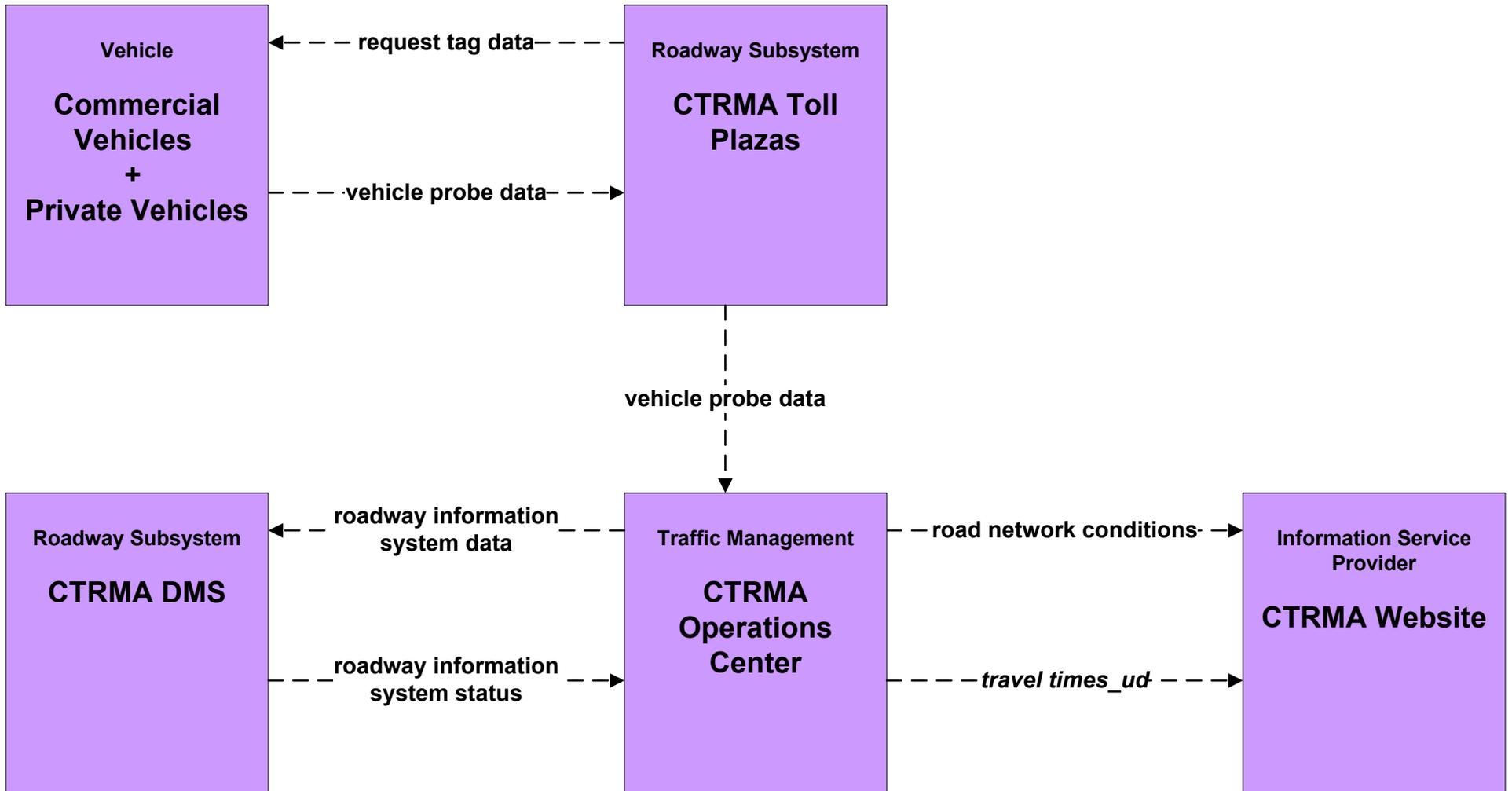
ATMS01 - Network Surveillance Municipal Traffic Operations Center



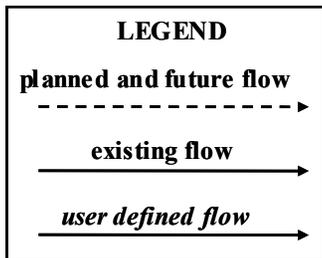
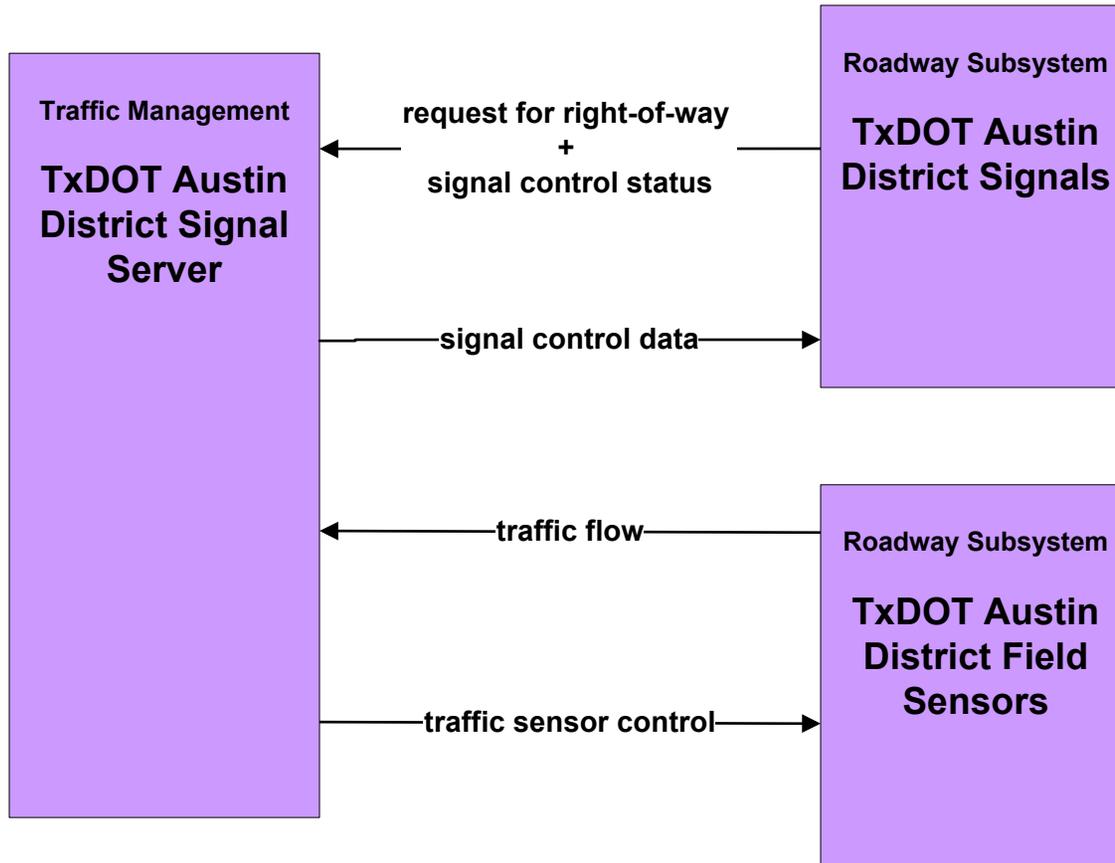
ATMS02 - Probe Surveillance
TxDOT Austin District TMC (CTECC)



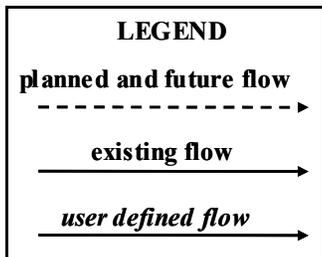
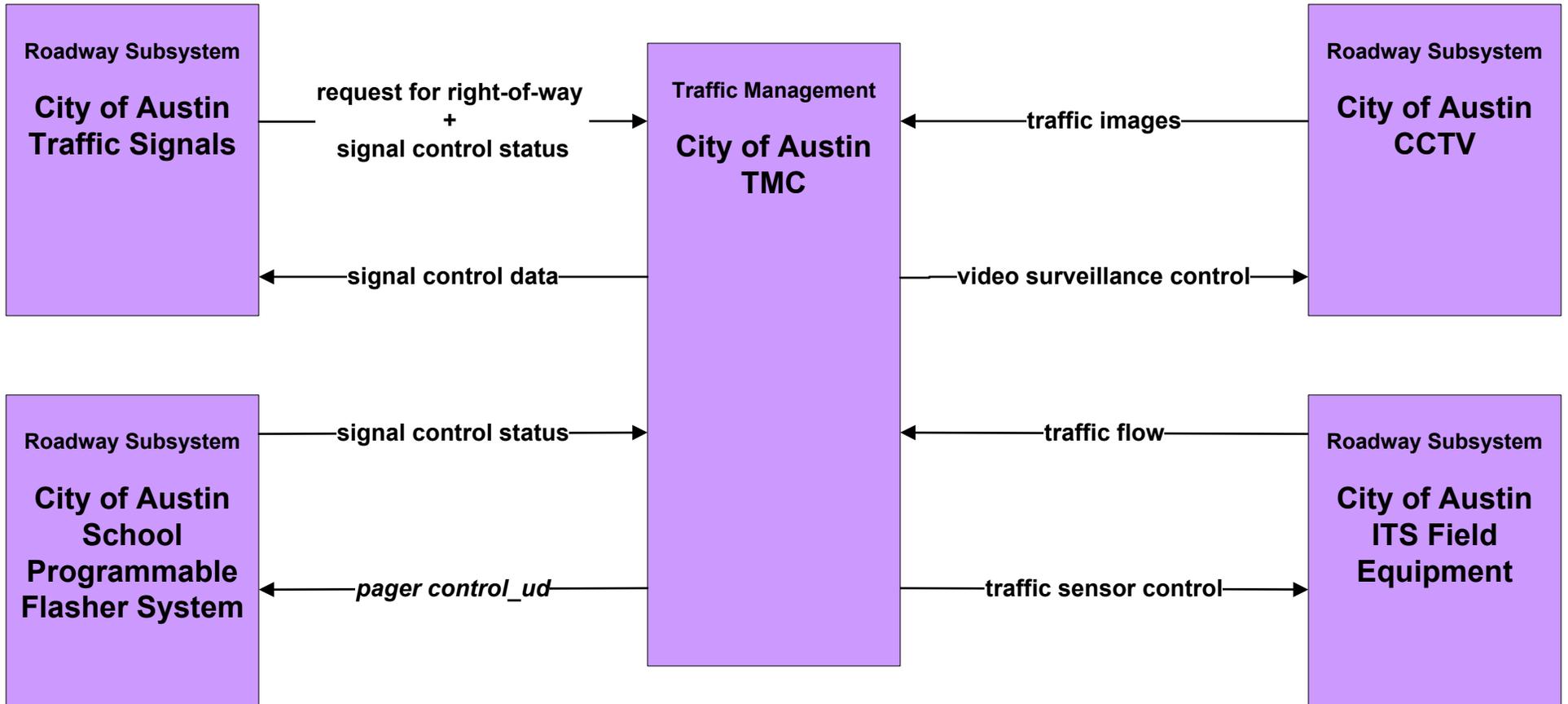
ATMS02 - Probe Surveillance CTRMA



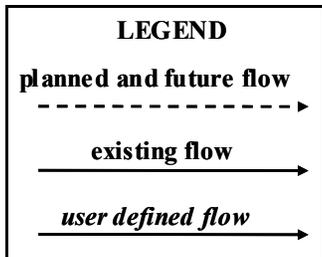
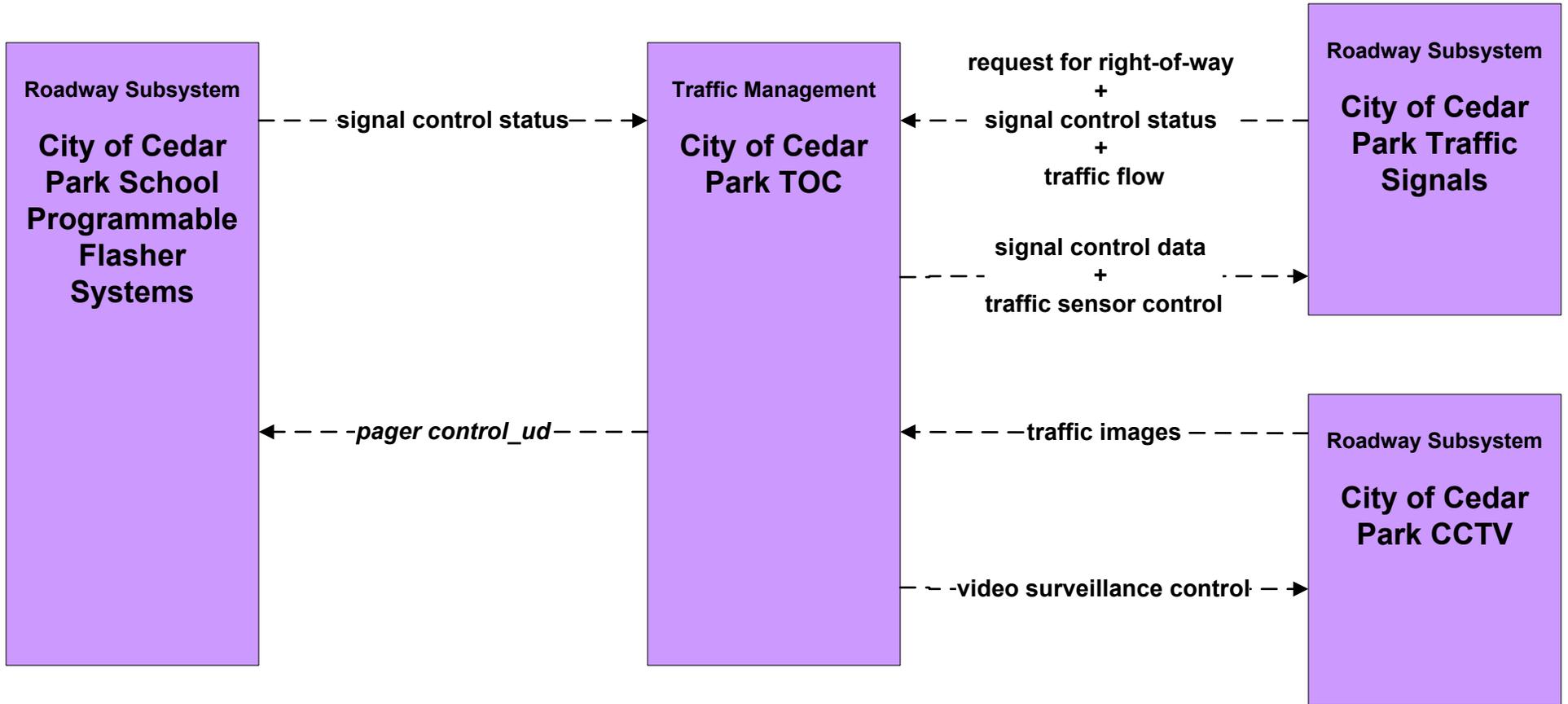
**ATMS03 - Surface Street Control
TxDOT Austin District Signal Server**



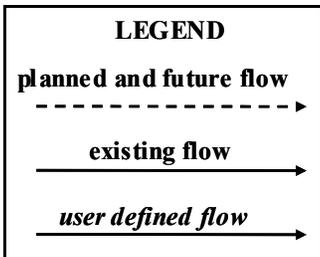
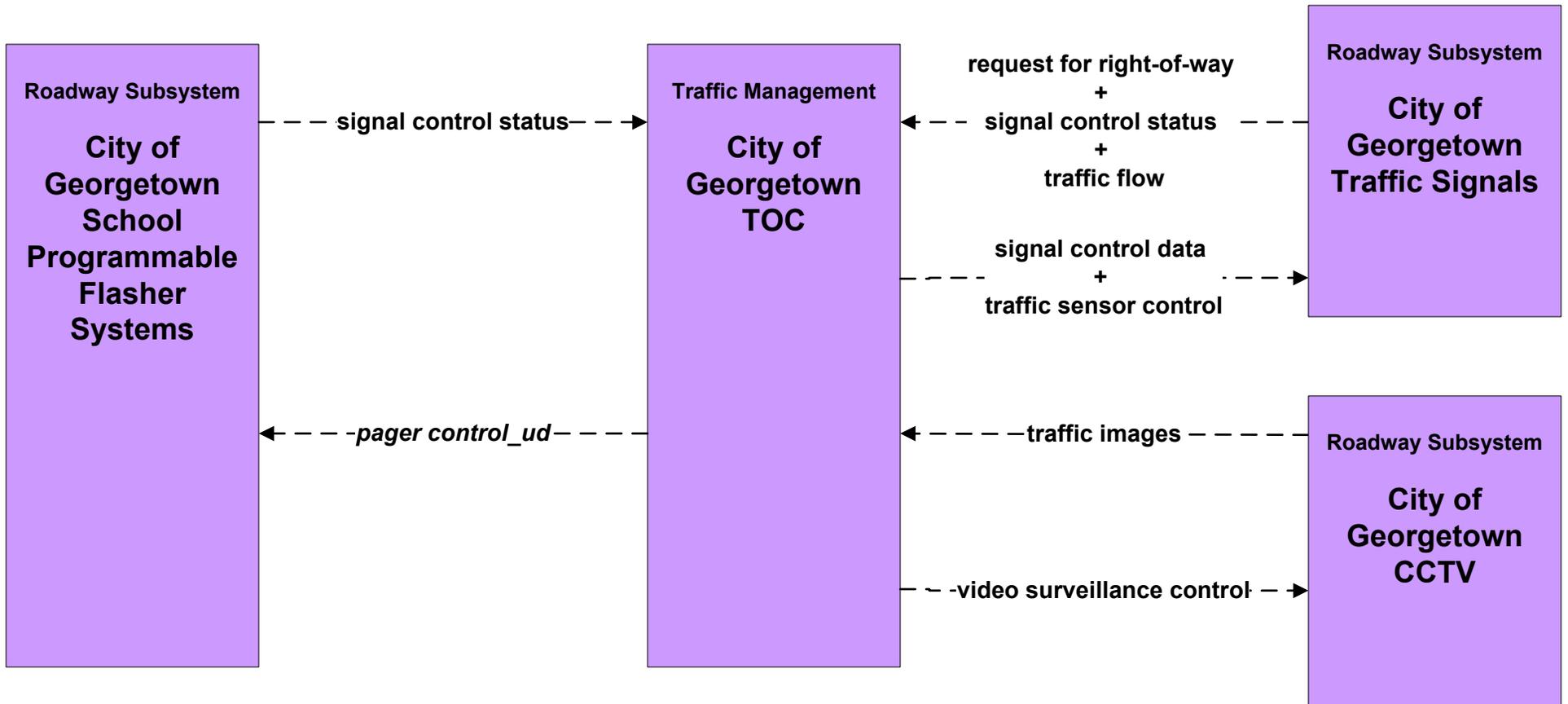
ATMS03 - Surface Street Control
City of Austin Traffic Management Center



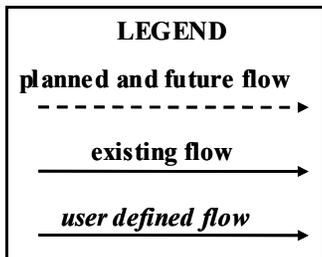
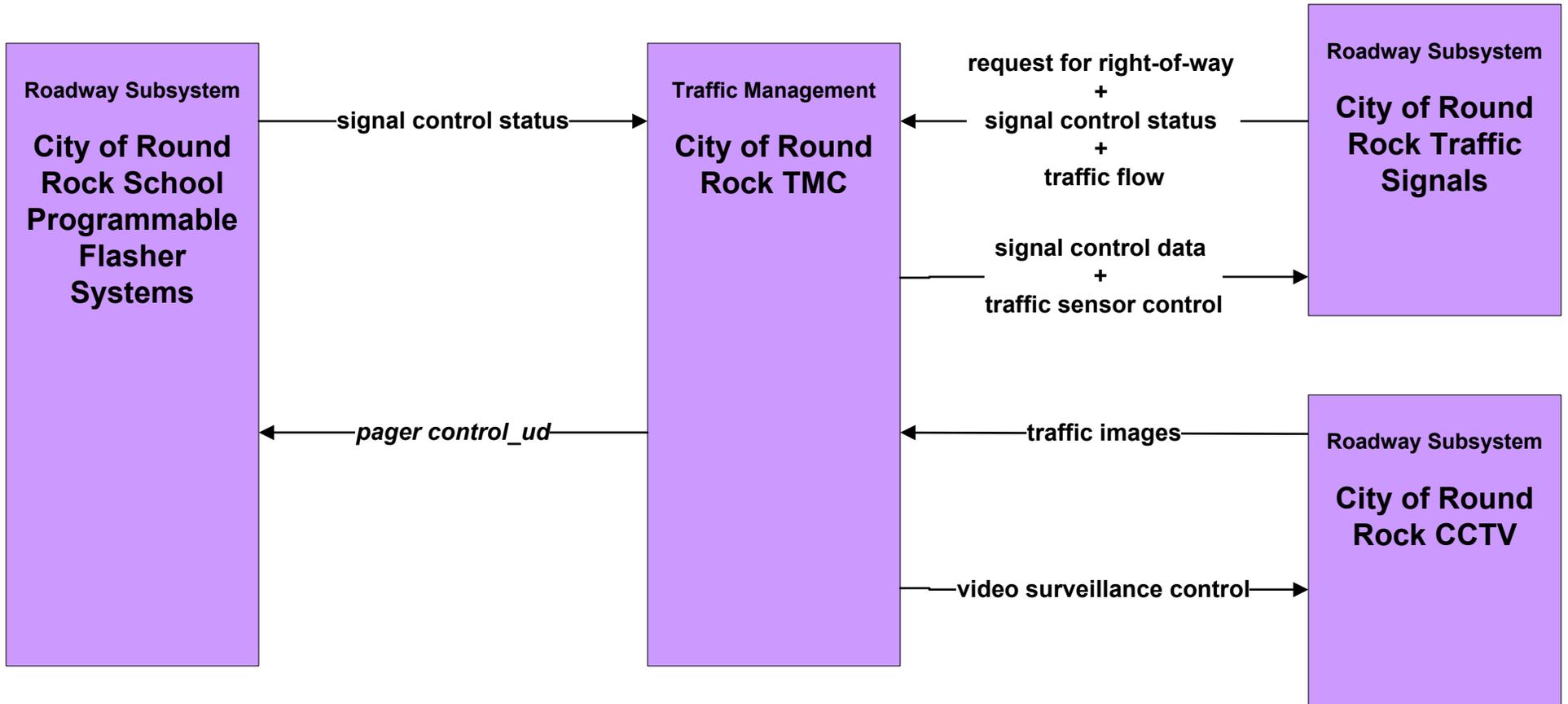
**ATMS03 - Surface Street Control
City of Cedar Park Traffic Operations Center**



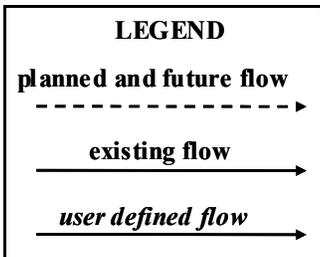
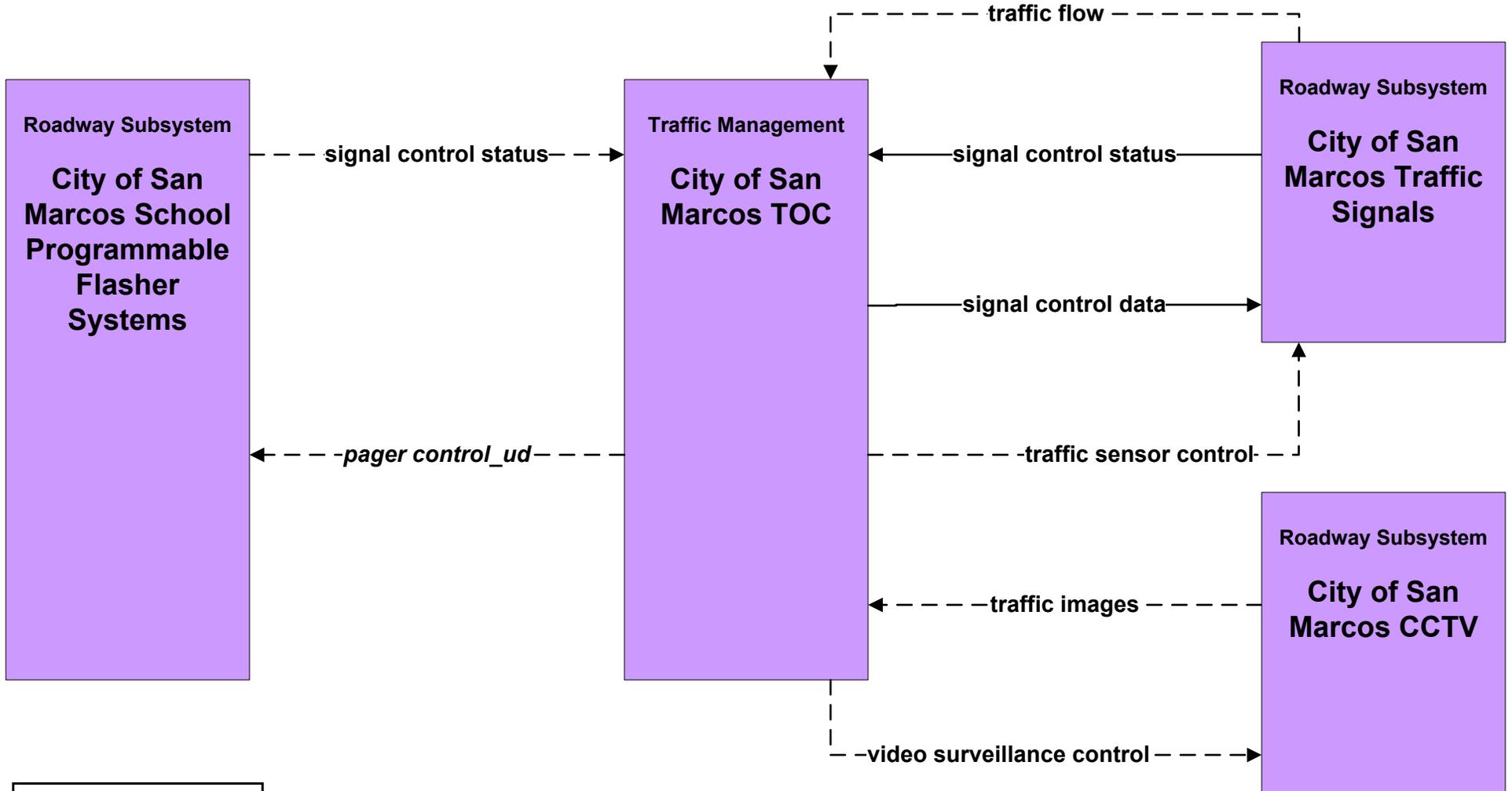
ATMS03 - Surface Street Control
City of Georgetown Traffic Operations Center



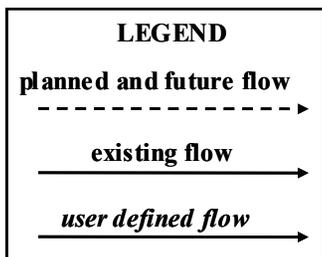
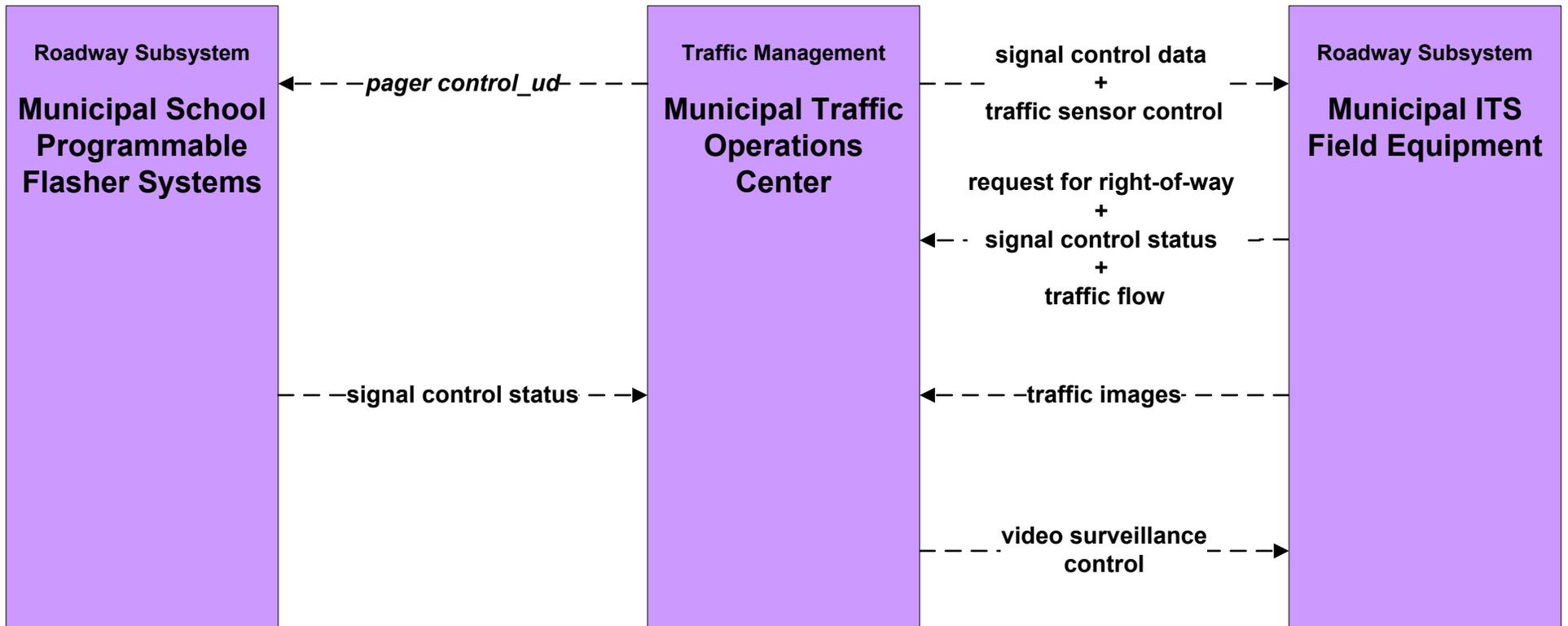
ATMS03 - Surface Street Control
City of Round Rock Traffic Management Center



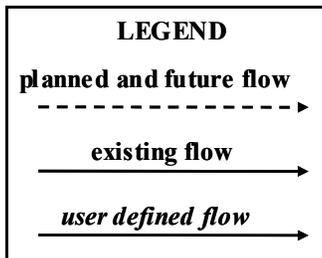
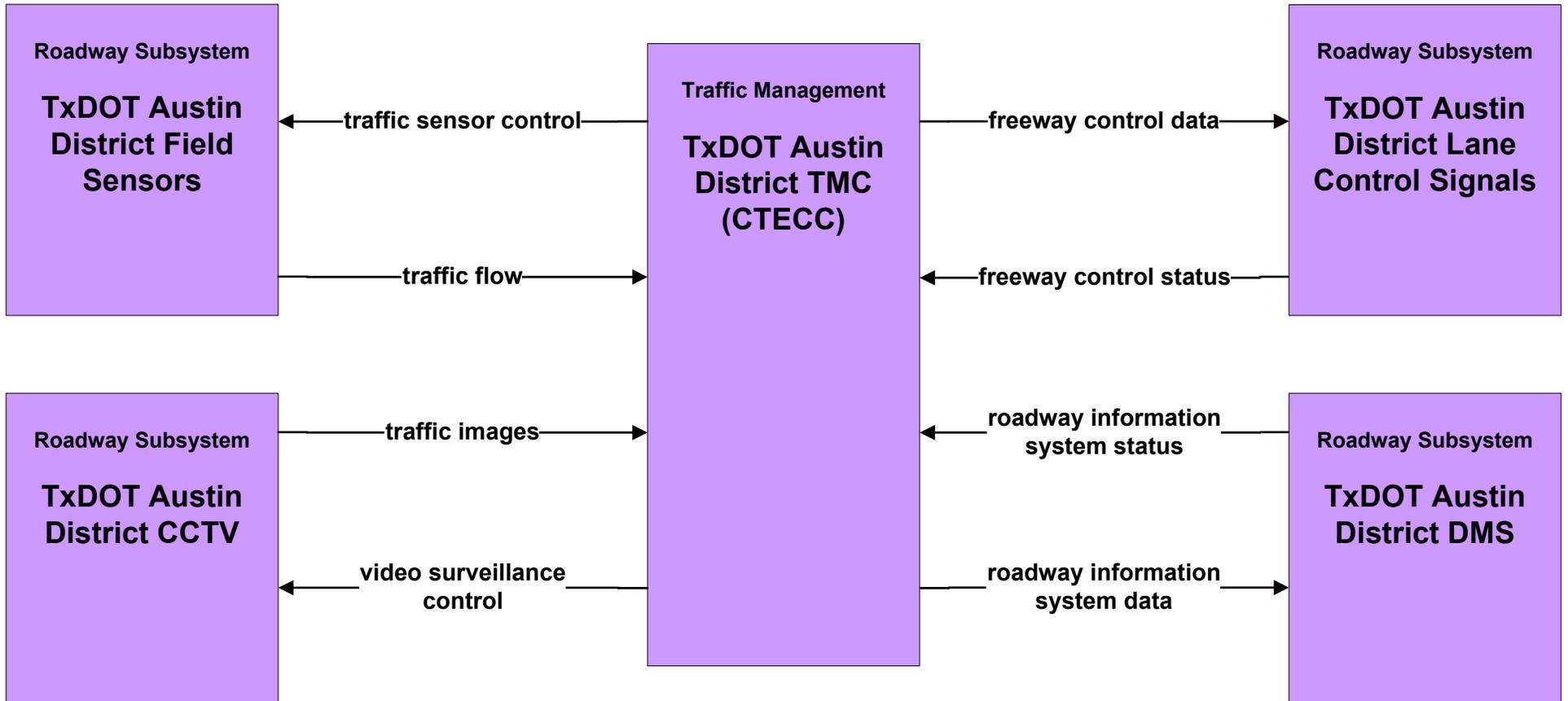
ATMS03 - Surface Street Control
City of San Marcos Traffic Operations Center



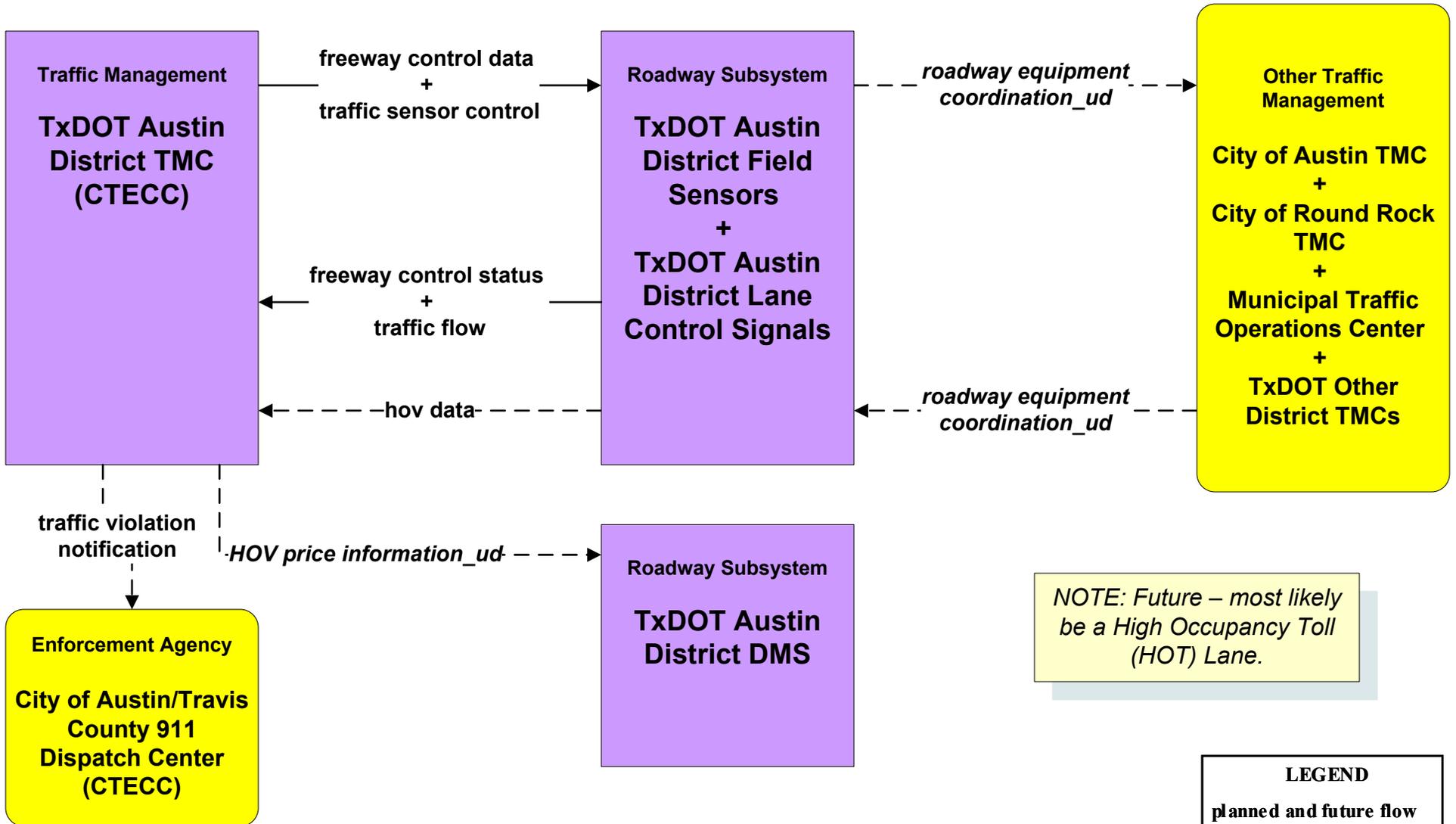
**ATMS03 - Surface Street Control
Municipal Traffic Operations Center**



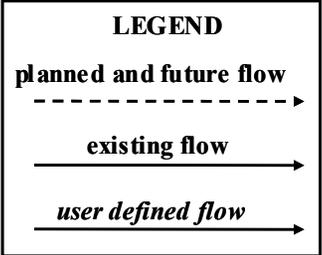
ATMS04 - Freeway Control
TxDOT Austin District TMC (CTECC)



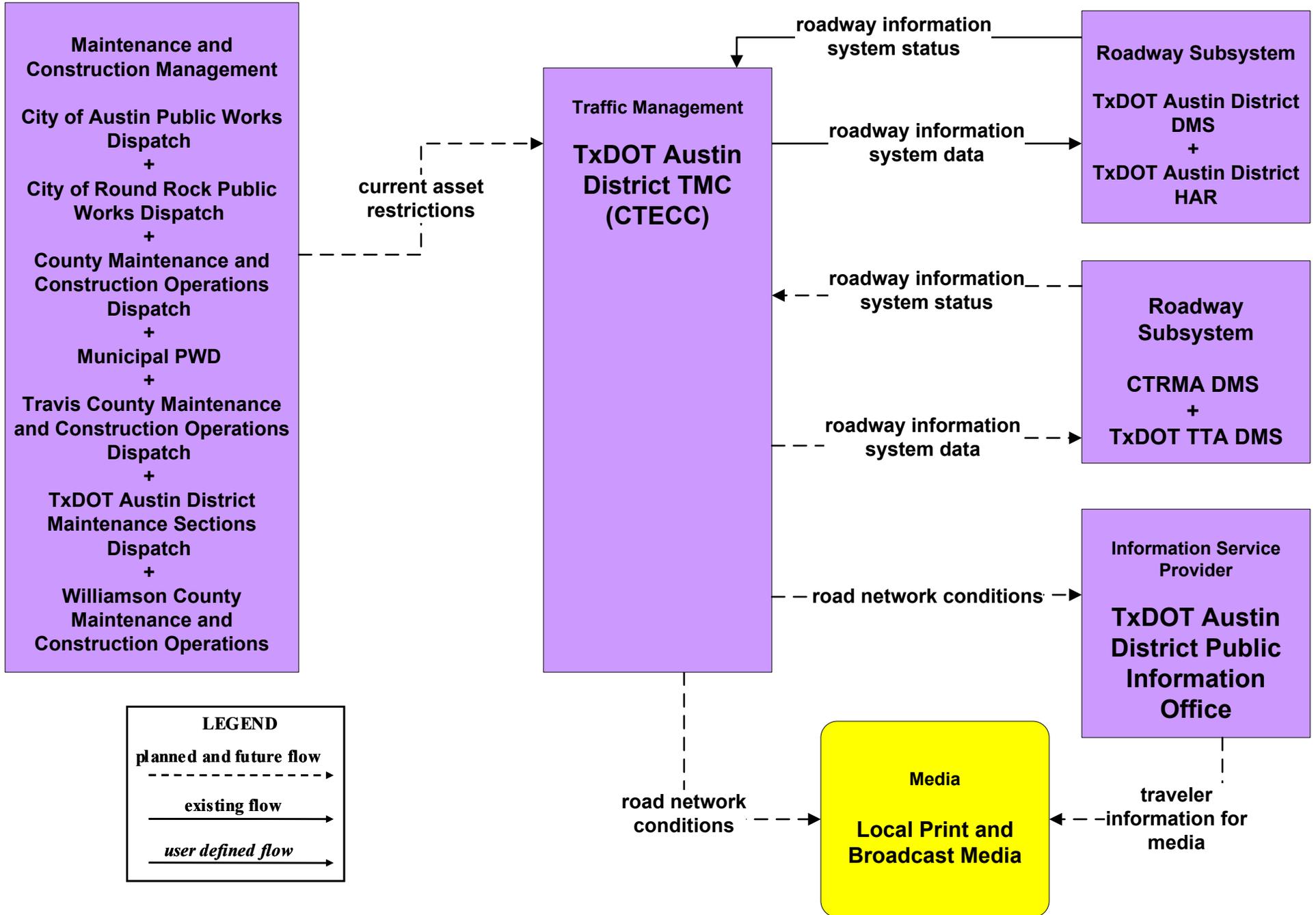
ATMS05 - HOV Lane Management TxDOT Austin District TMC (CTECC)



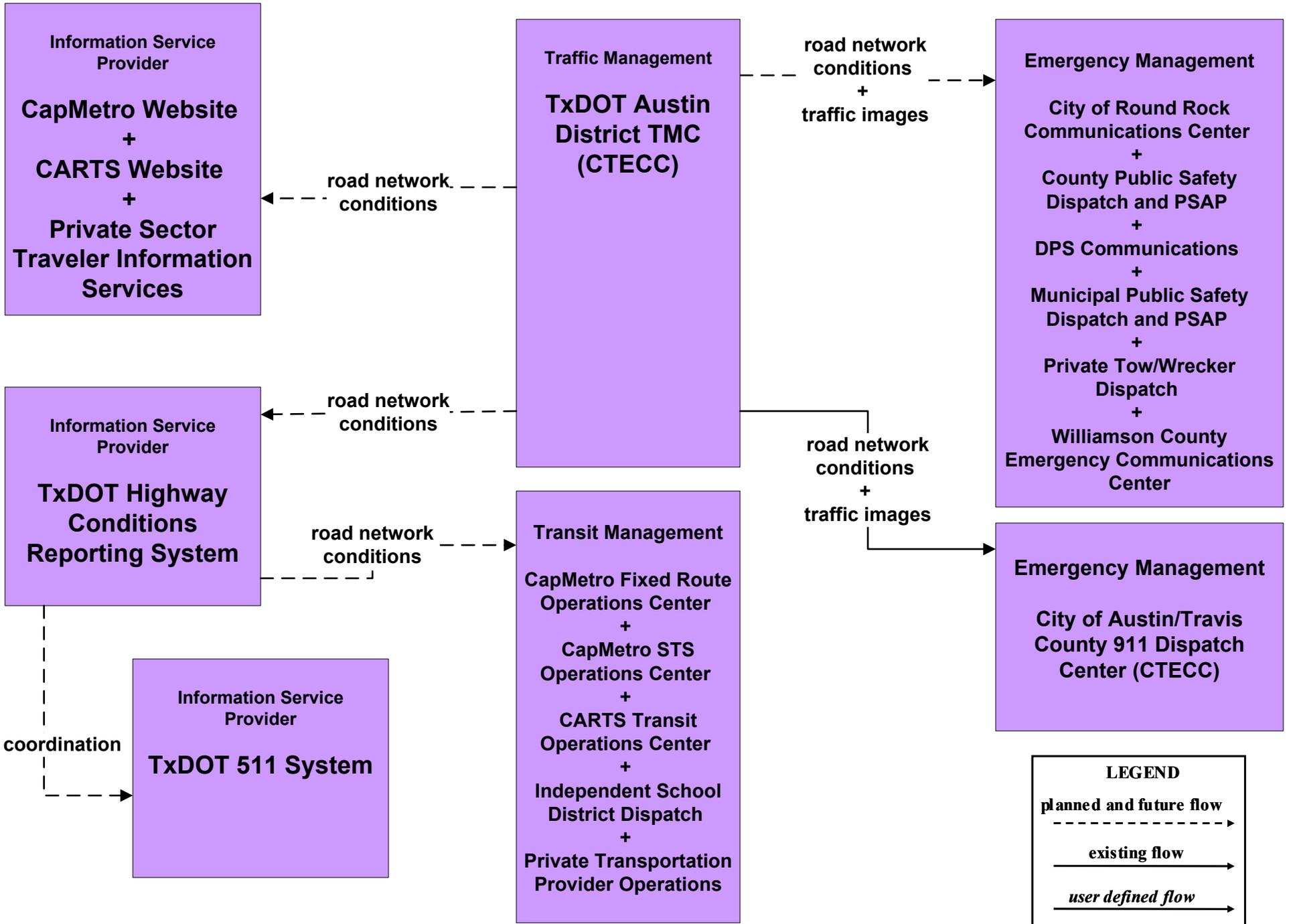
NOTE: Future – most likely be a High Occupancy Toll (HOT) Lane.



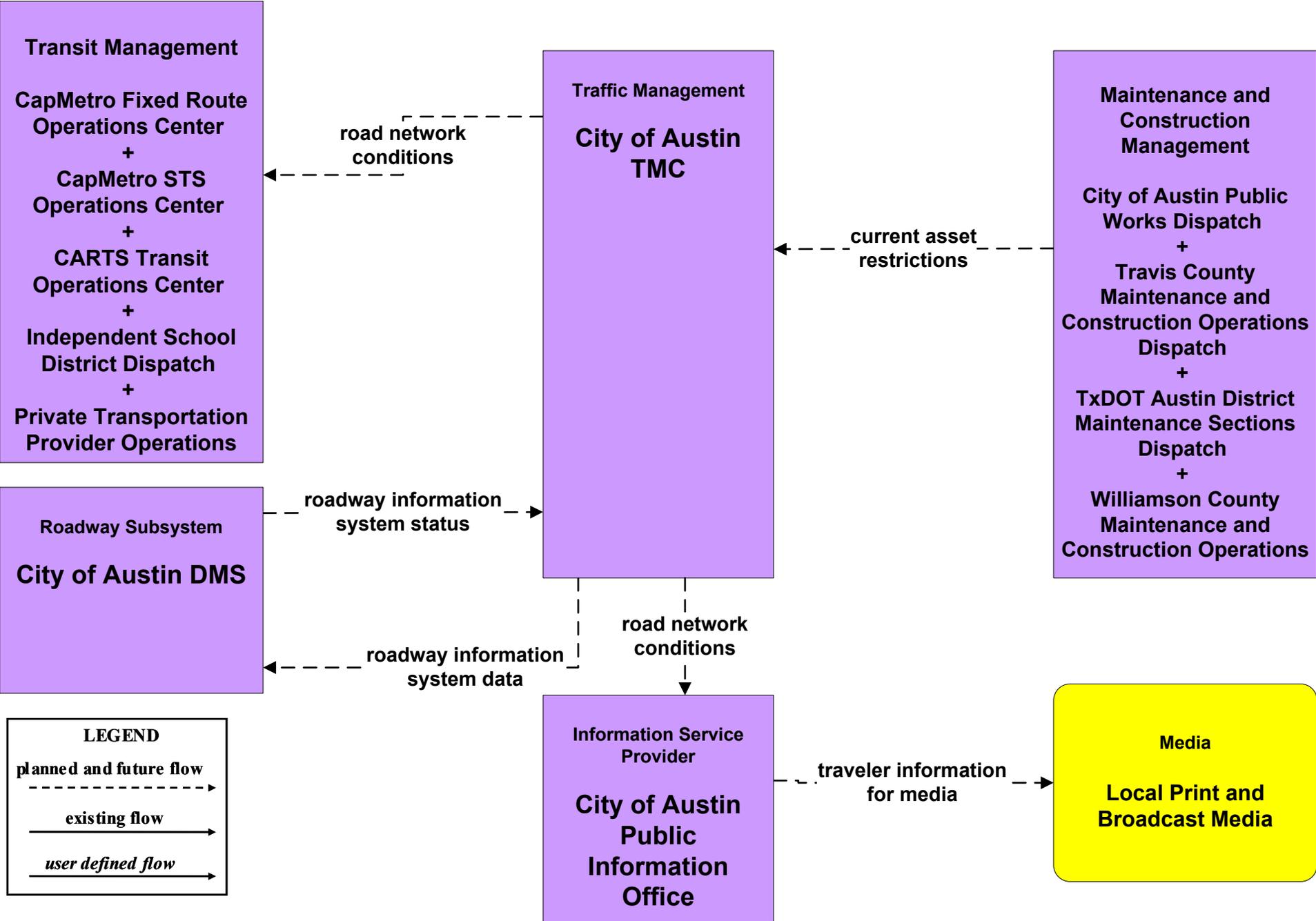
ATMS06 - Traffic Information Dissemination TxDOT Austin District TMC (CTECC) (1 of 2)



ATMS06 - Traffic Information Dissemination TxDOT Austin District TMC (CTECC) (2 of 2)



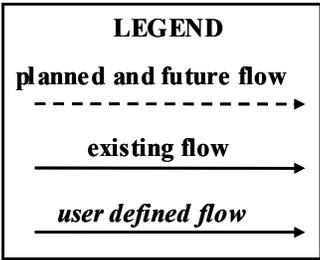
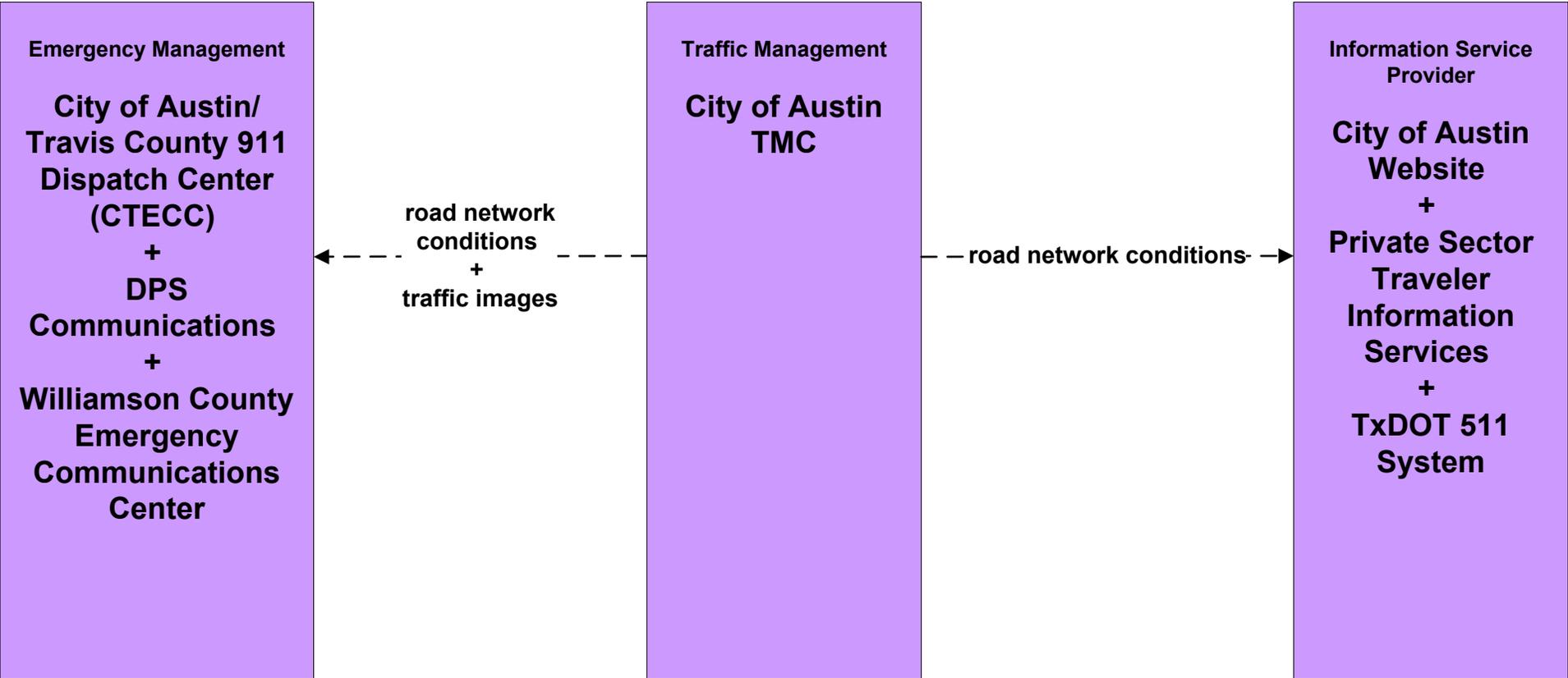
**ATMS06 - Traffic Information Dissemination
City of Austin Traffic Management Center (1 of 2)**



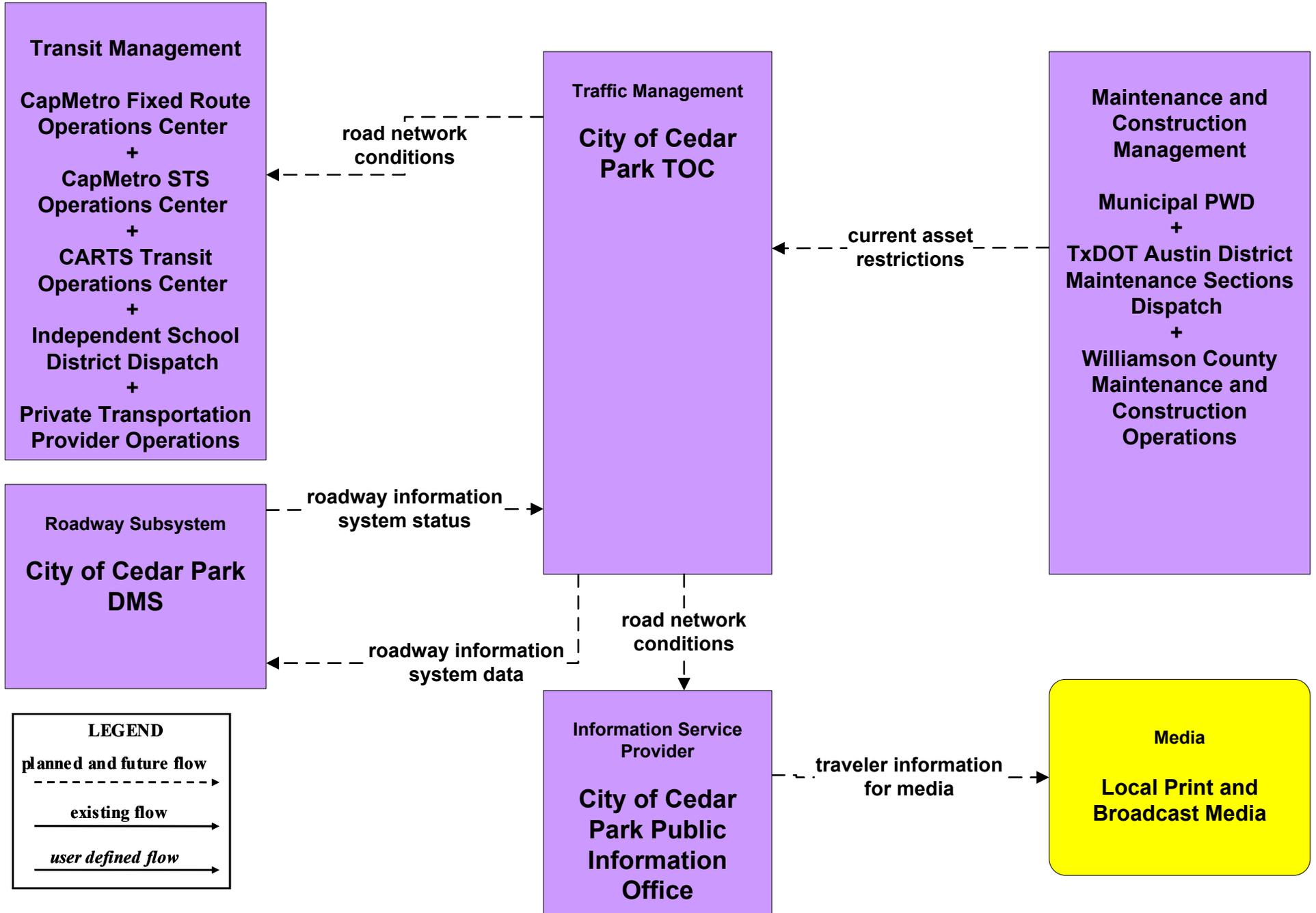
LEGEND

- planned and future flow* → (dashed line)
- existing flow* → (solid line)
- user defined flow* → (solid line with wavy underline)

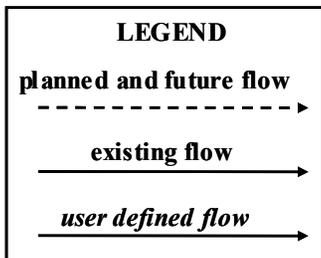
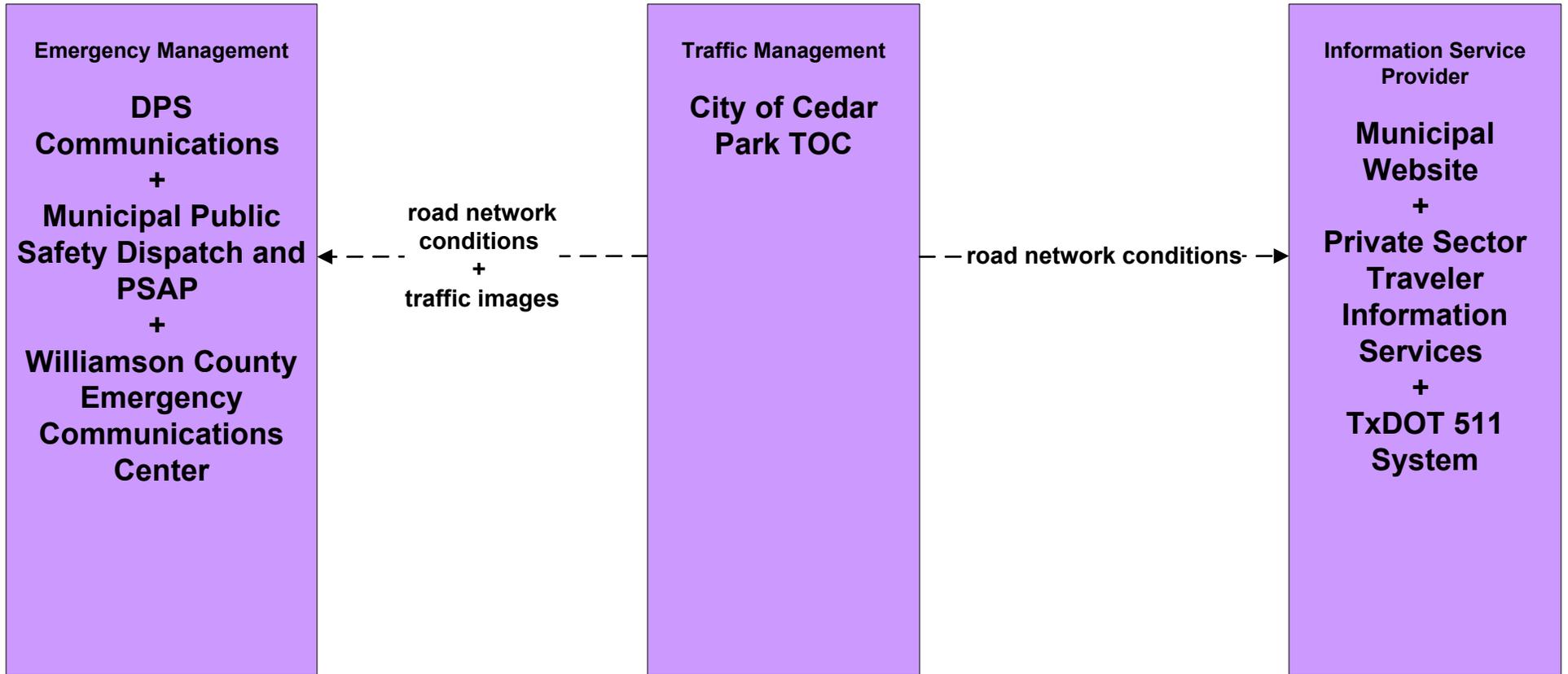
**ATMS06 - Traffic Information Dissemination
City of Austin Traffic Management Center (2 of 2)**



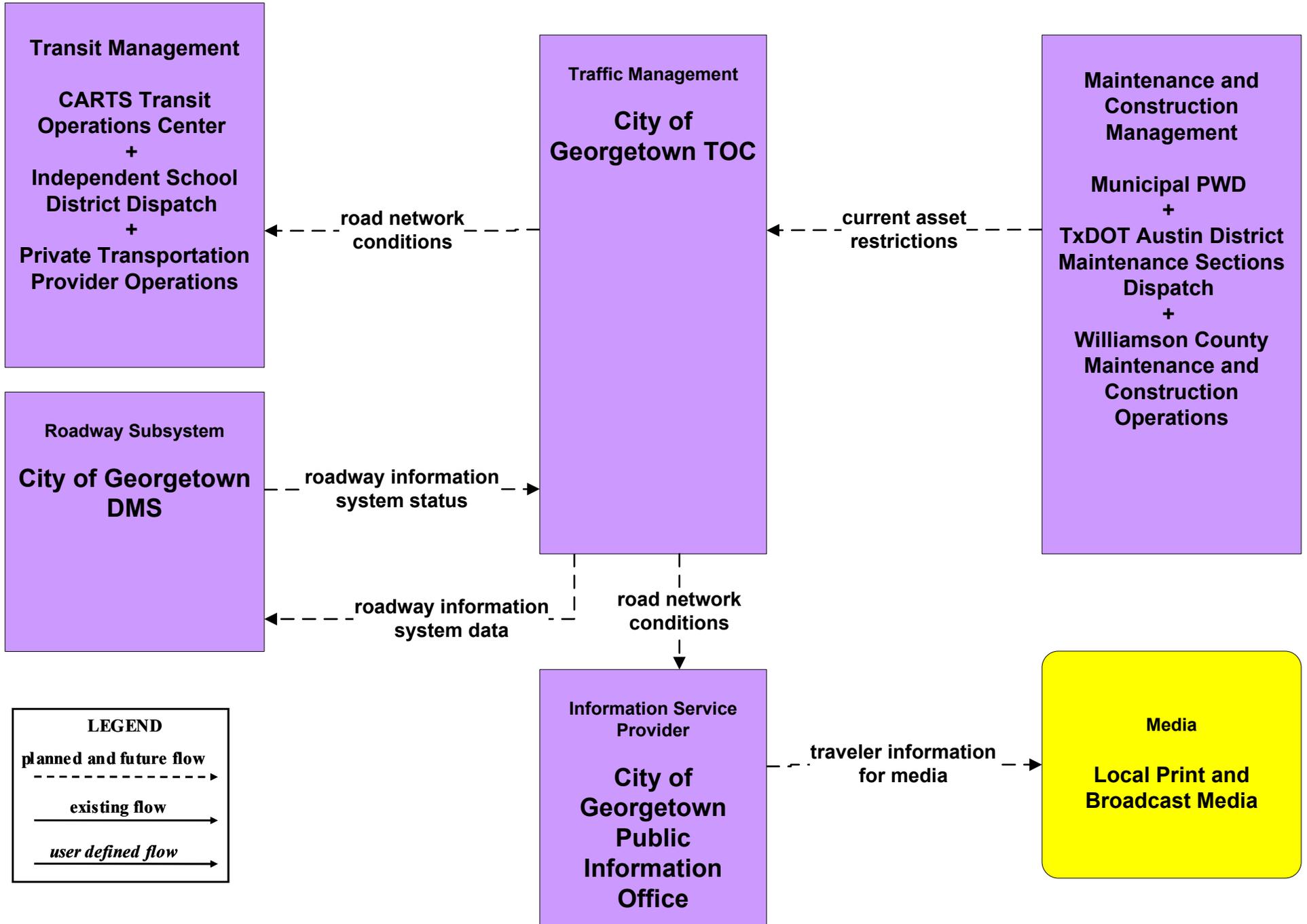
**ATMS06 - Traffic Information Dissemination
City of Cedar Park Traffic Operations Center (1 of 2)**



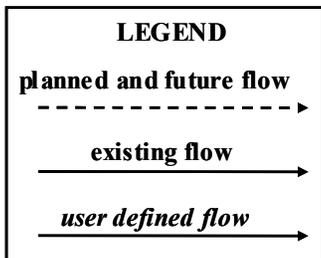
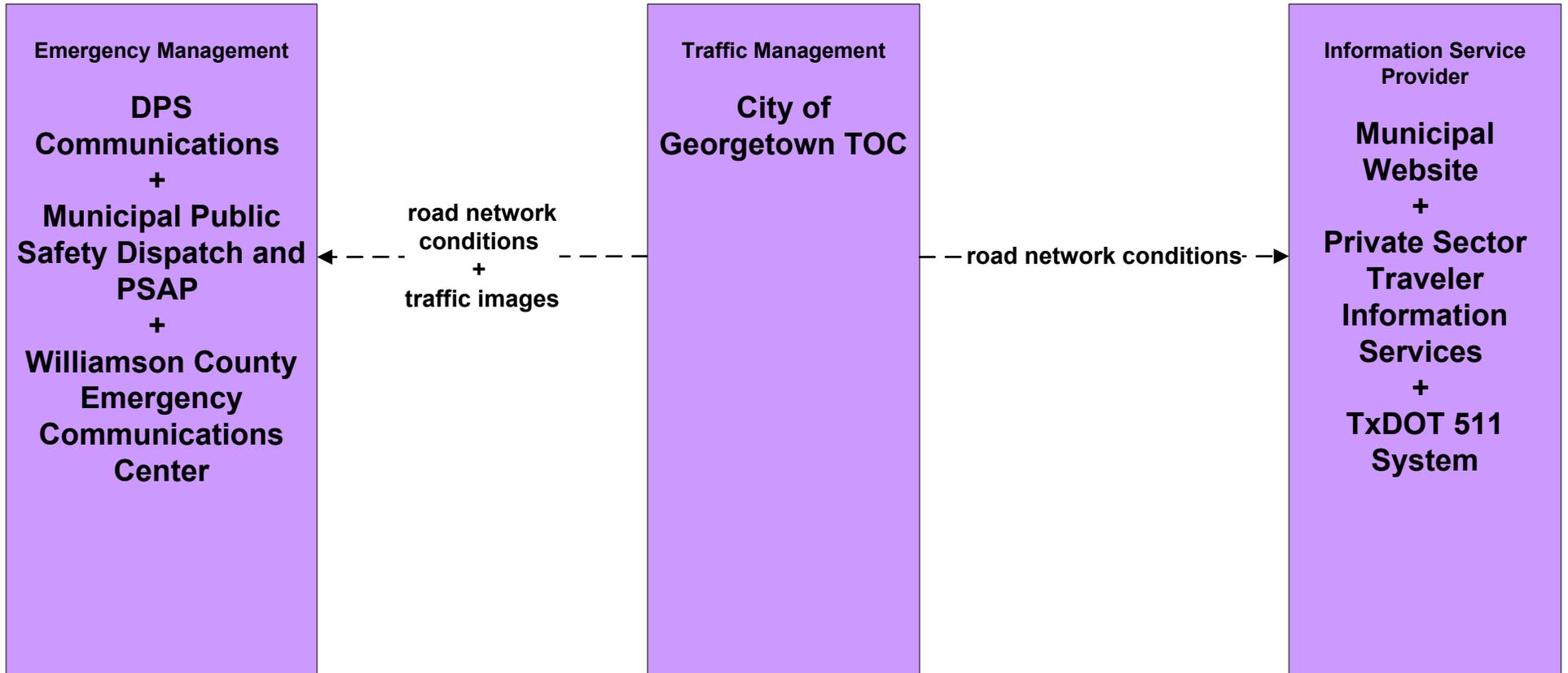
**ATMS06 - Traffic Information Dissemination
City of Cedar Park Traffic Operations Center (2 of 2)**



ATMS06 - Traffic Information Dissemination
City of Georgetown Traffic Operations Center (1 of 2)

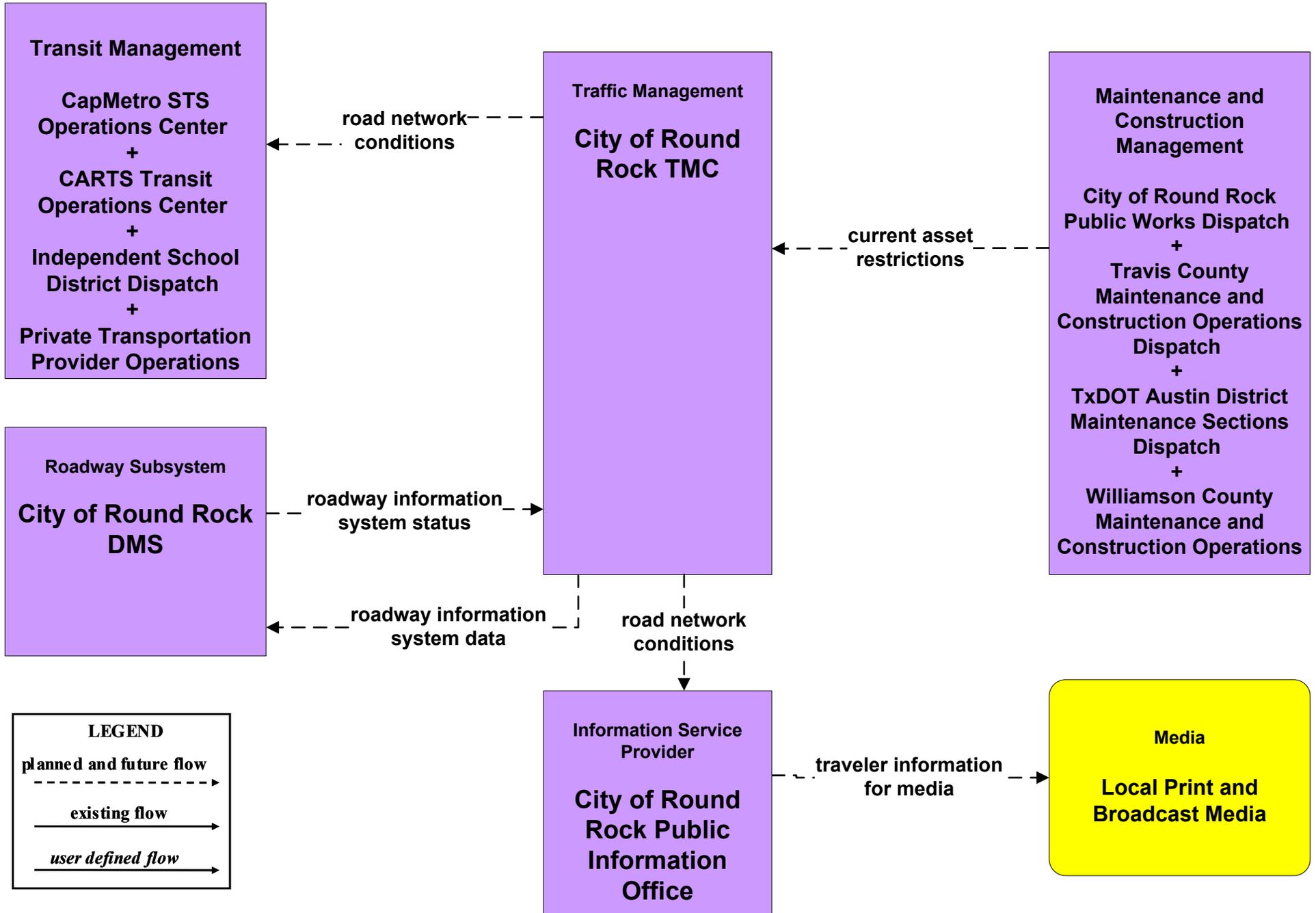


ATMS06 - Traffic Information Dissemination
City of Georgetown Traffic Operations Center (2 of 2)

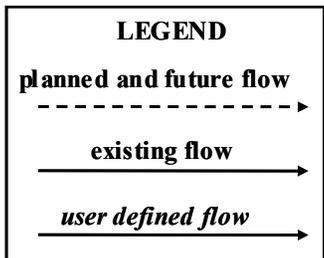
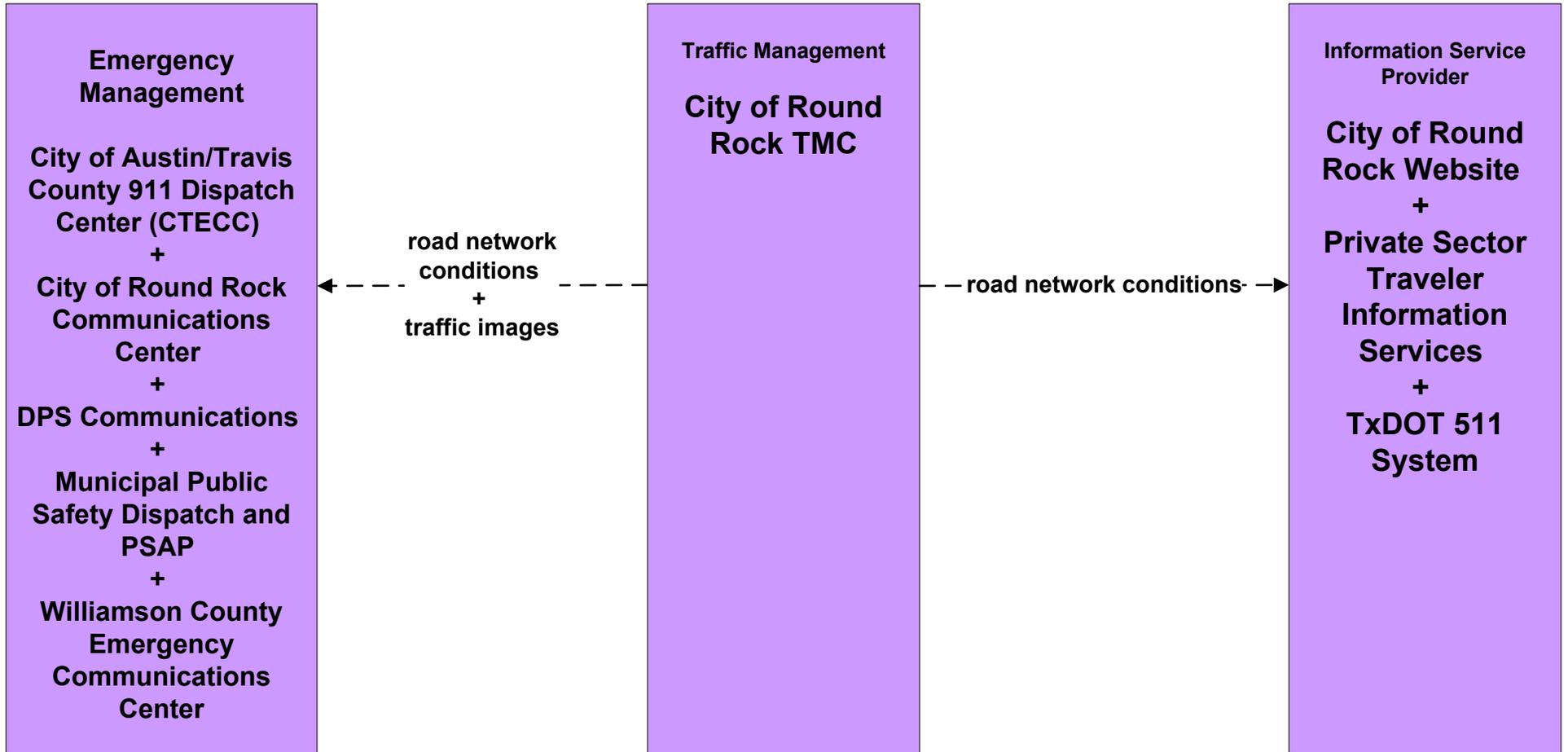


ATMS06 - Traffic Information Dissemination

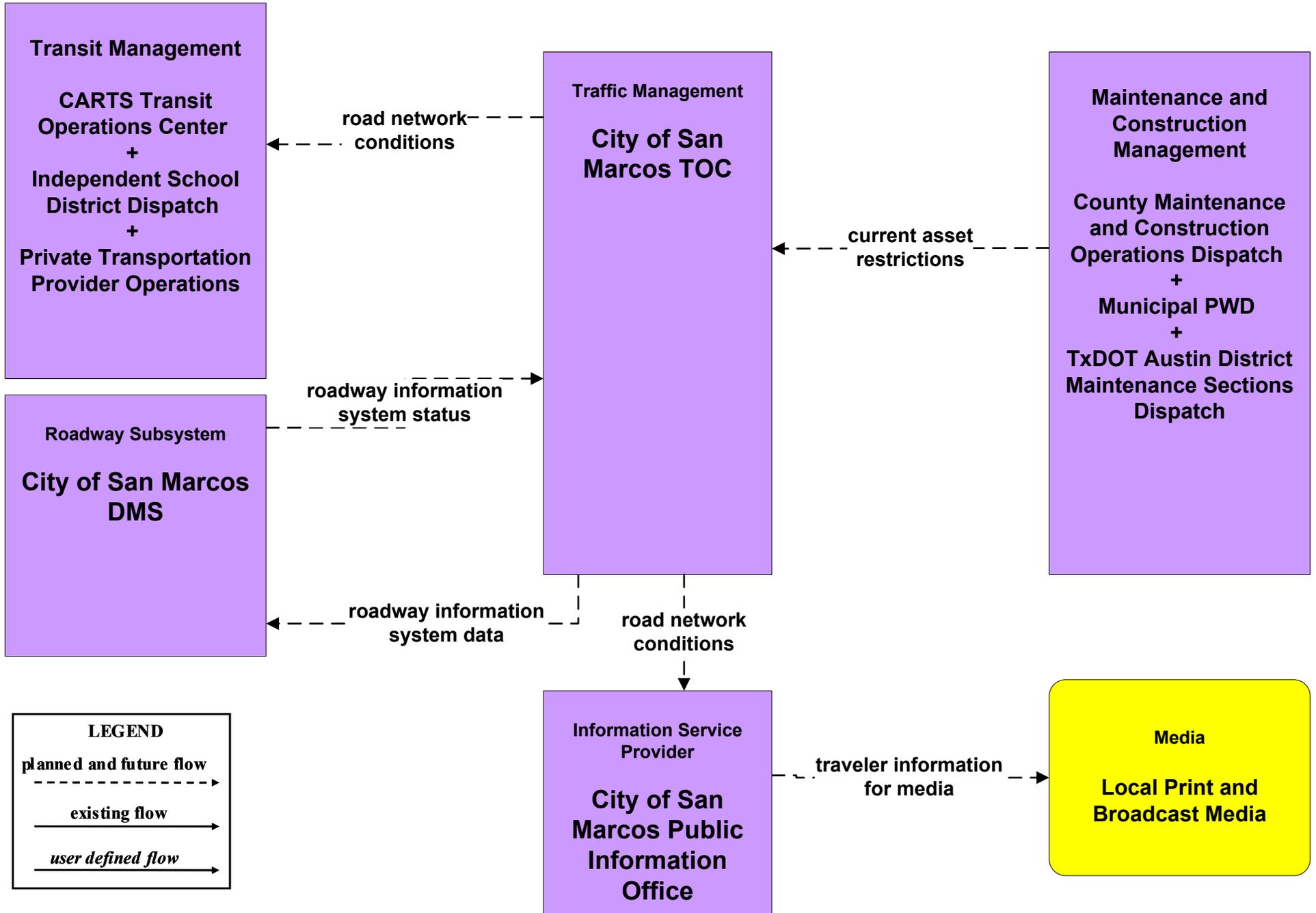
City of Round Rock Traffic Management Center (1 of 2)



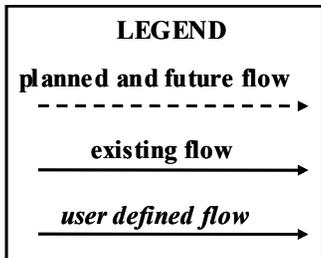
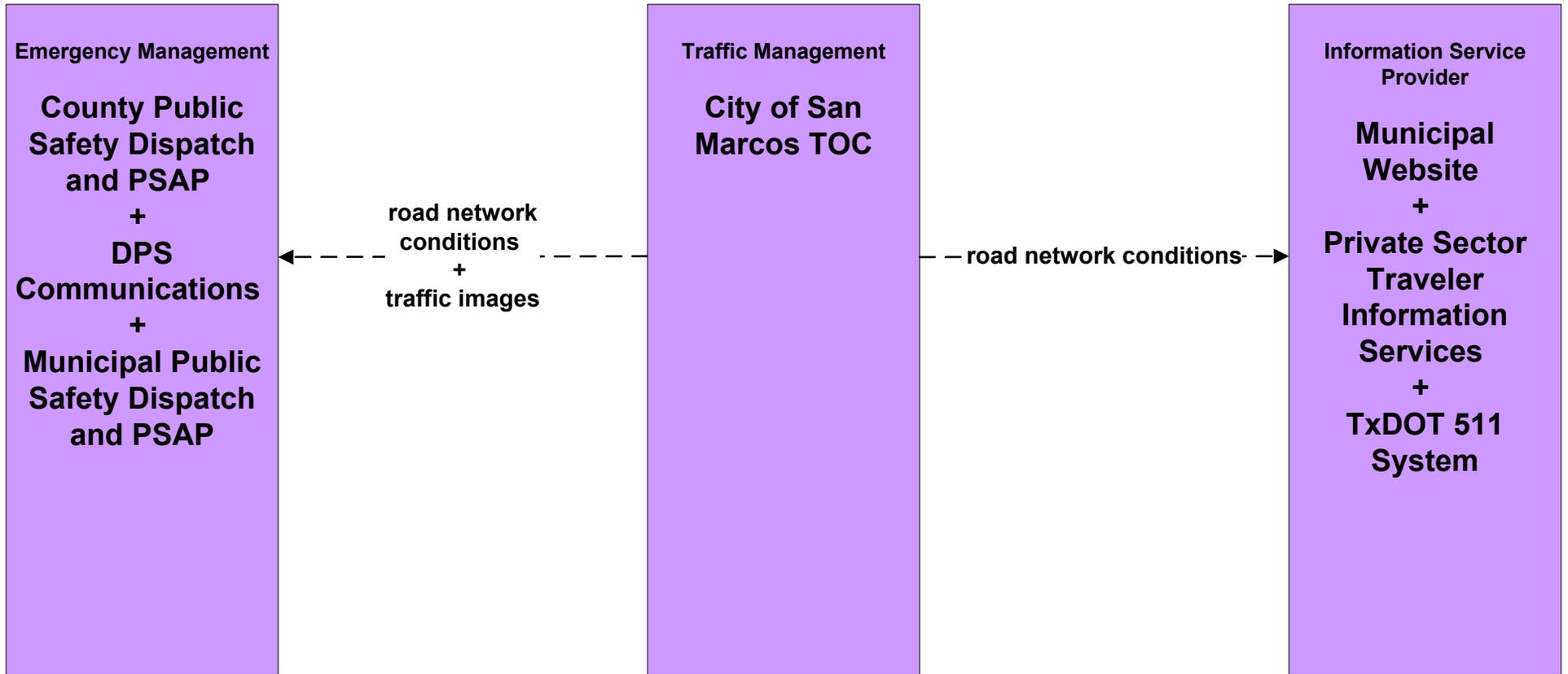
**ATMS06 - Traffic Information Dissemination
City of Round Rock Traffic Management Center (2 of 2)**



**ATMS06 - Traffic Information Dissemination
City of San Marcos Traffic Operations Center (1 of 2)**

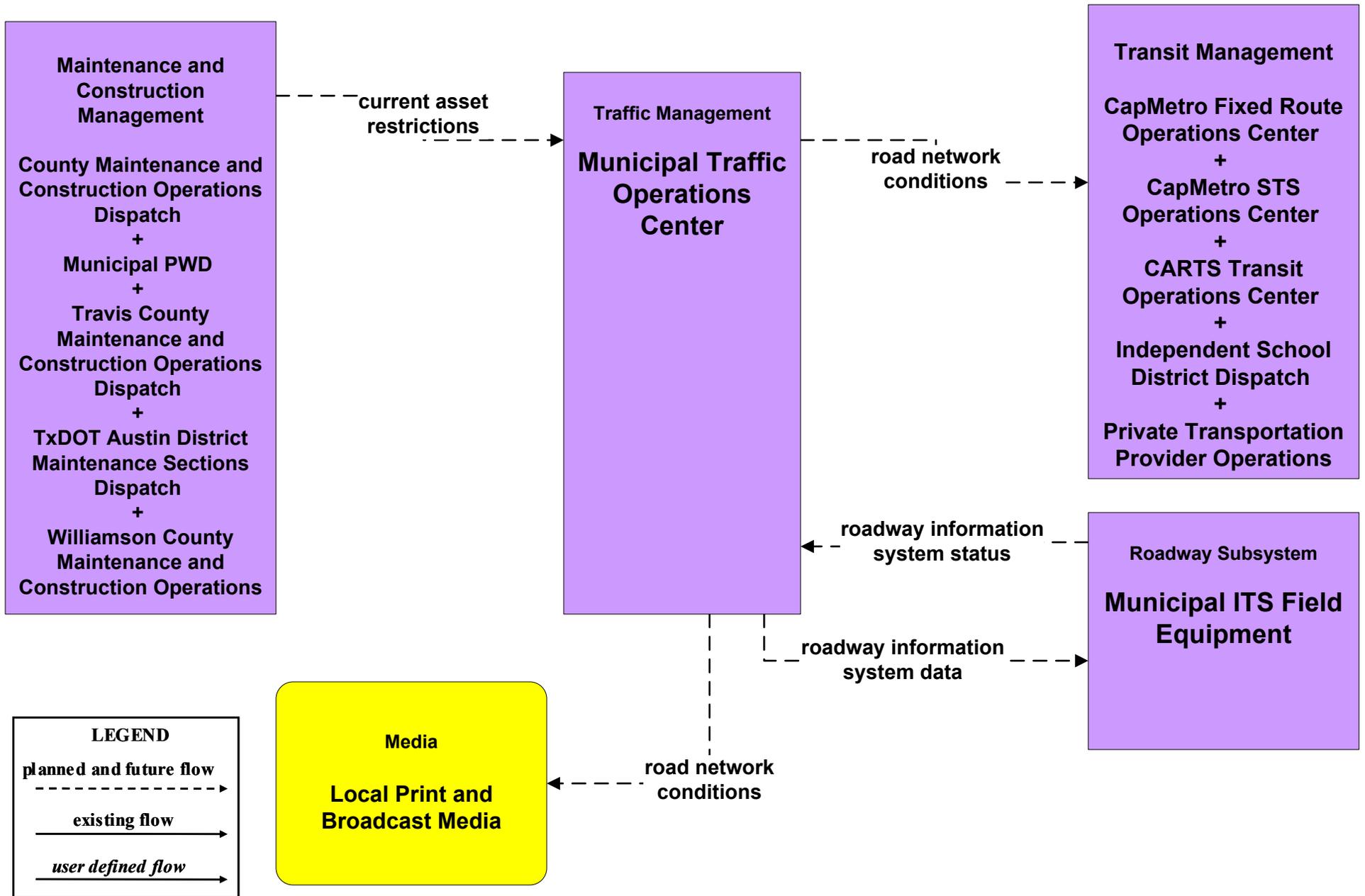


**ATMS06 - Traffic Information Dissemination
City of San Marcos Traffic Operations Center (2 of 2)**

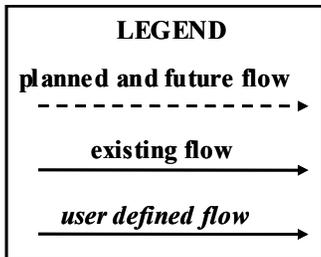
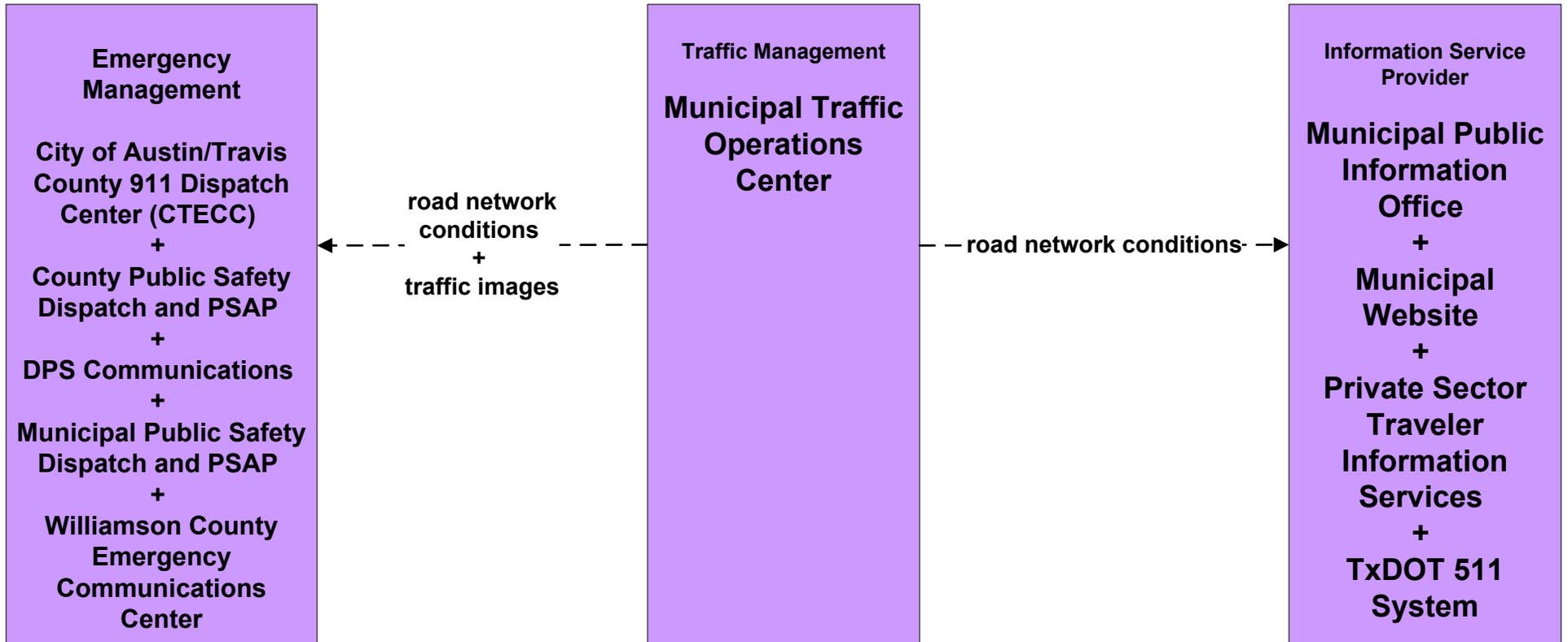


ATMS06 - Traffic Information Dissemination

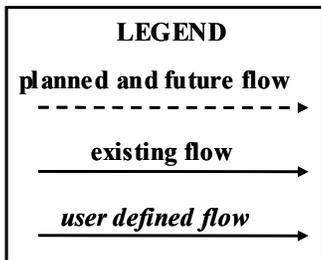
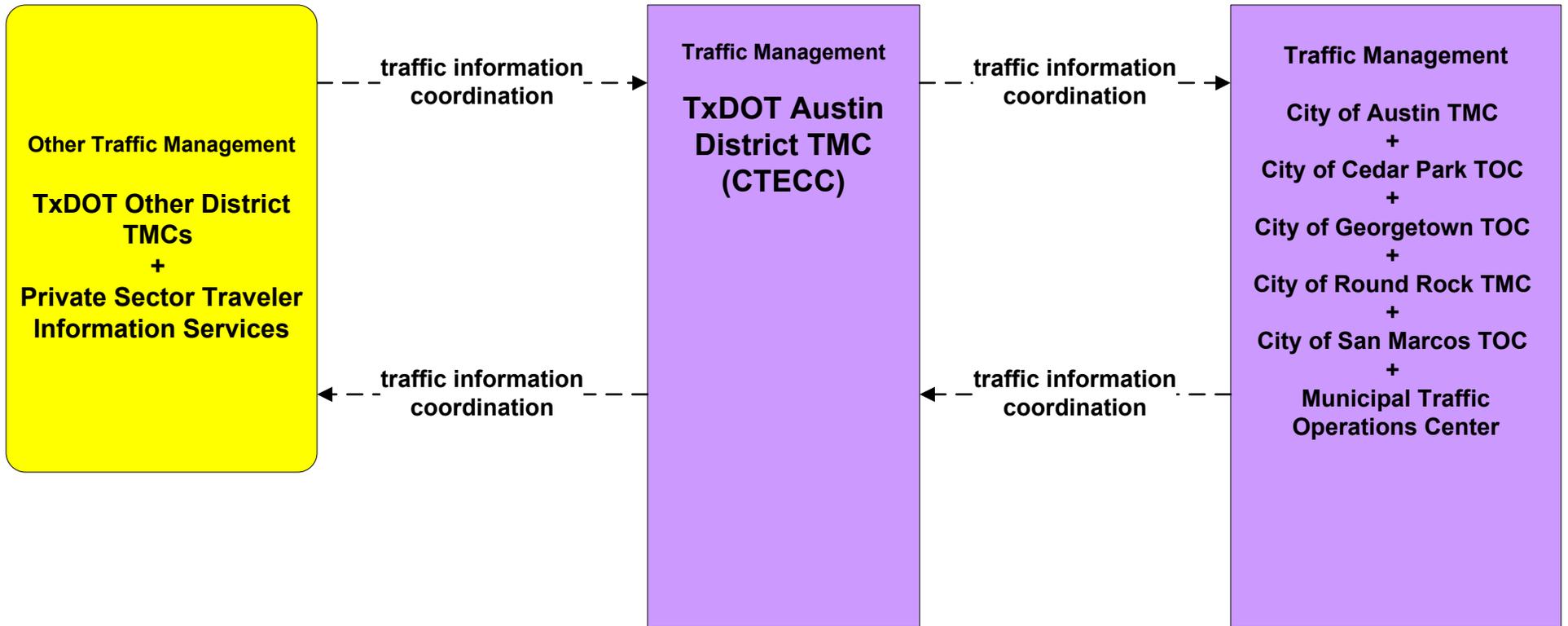
Municipal Traffic Operations Center (1 of 2)



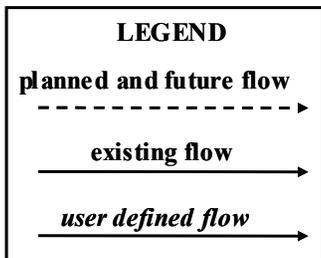
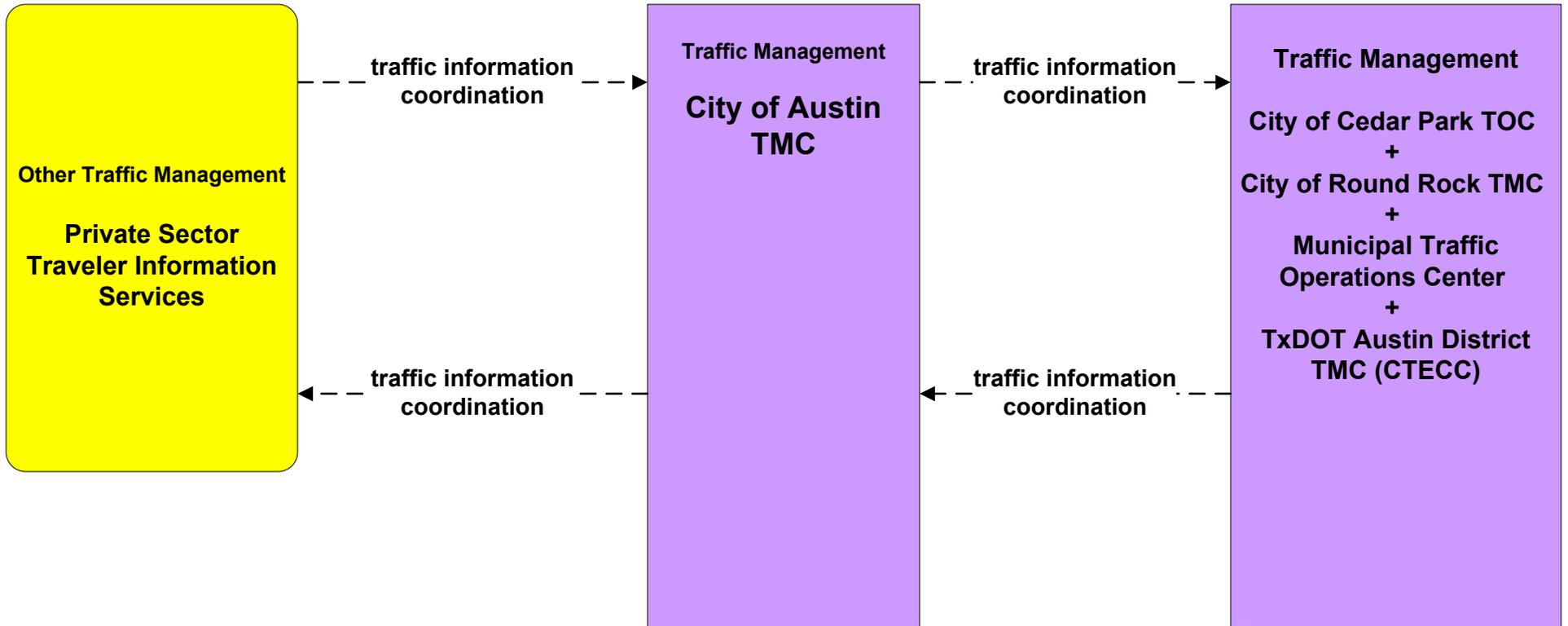
**ATMS06 - Traffic Information Dissemination
Municipal Traffic Operations Center (2 of 2)**



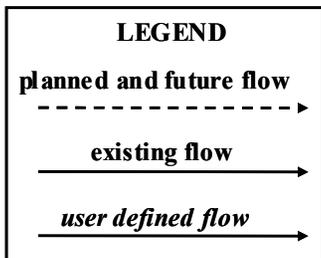
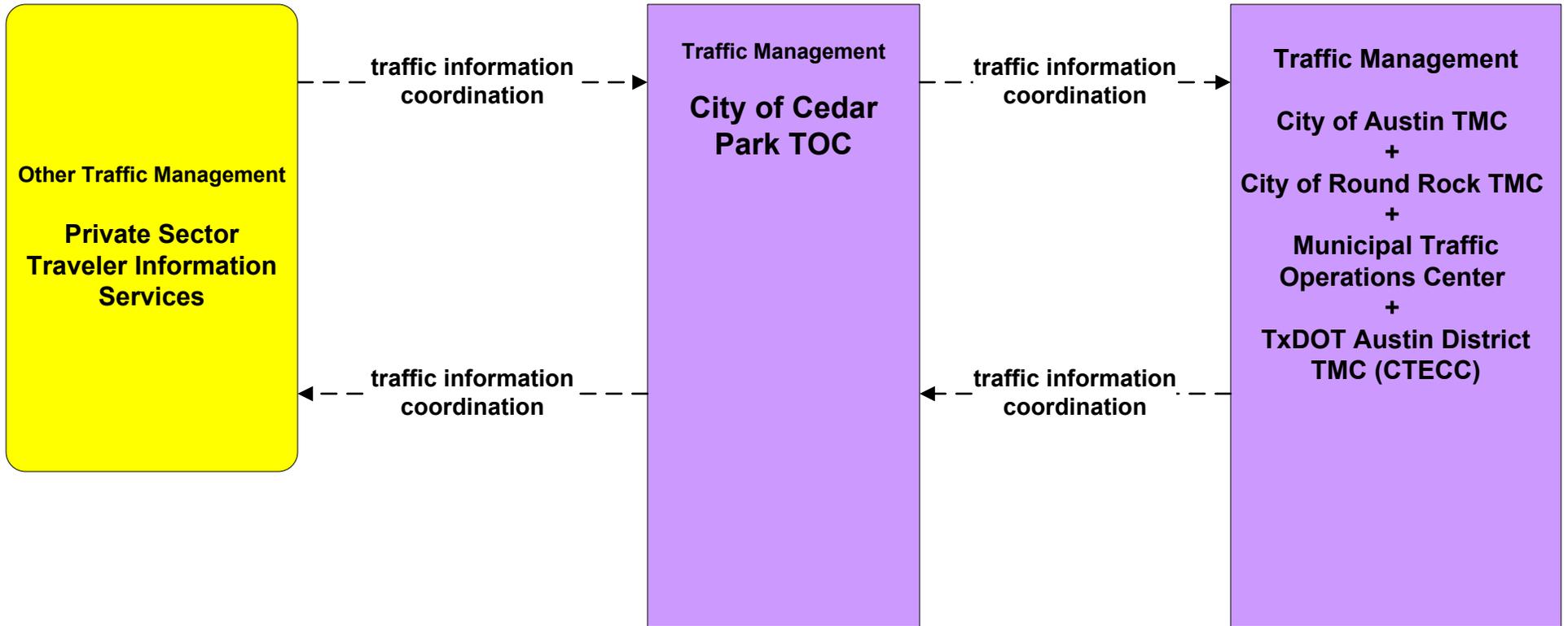
**ATMS07 - Regional Traffic Control
TxDOT Austin District TMC (CTECC)**



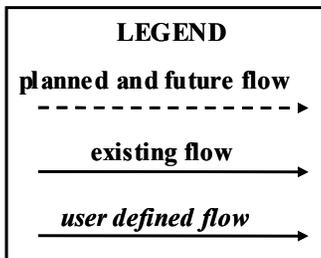
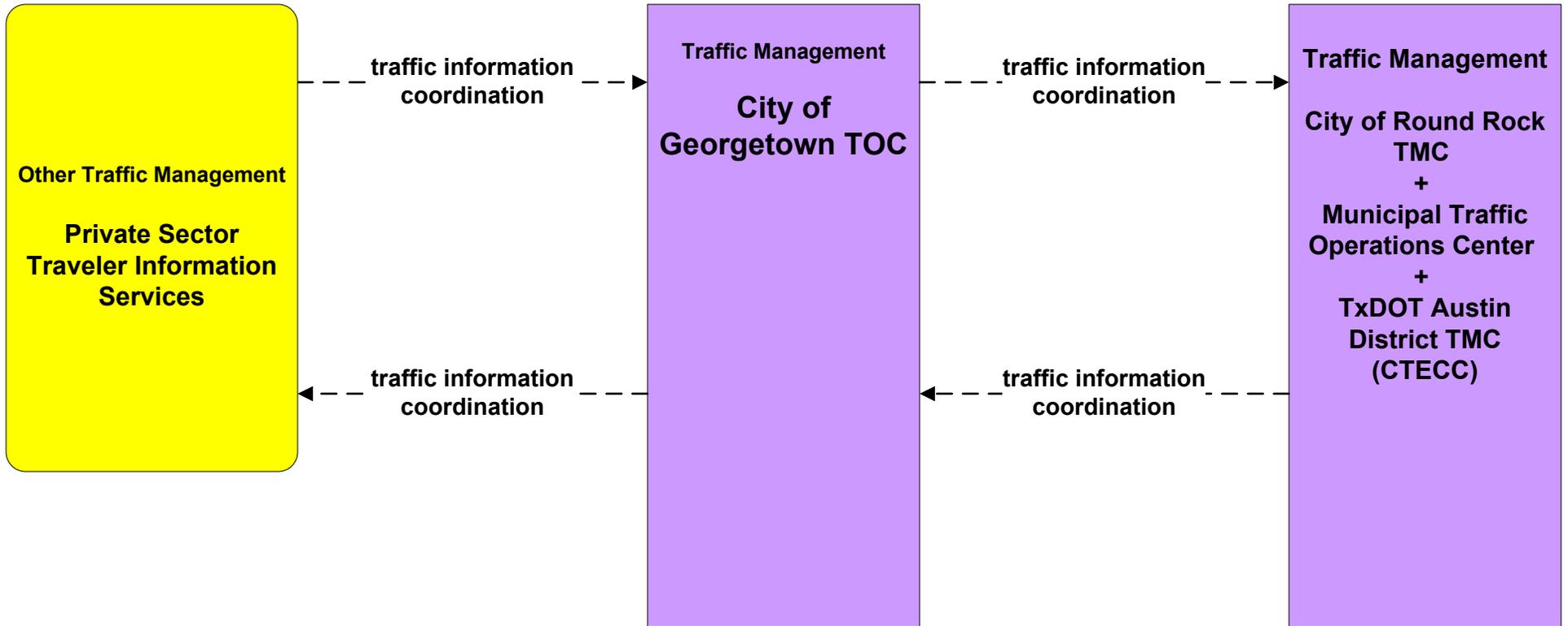
ATMS07 - Regional Traffic Control City of Austin TMC



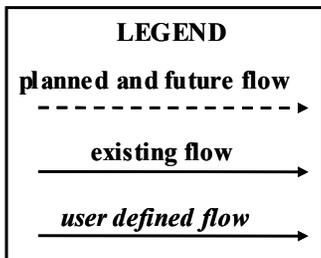
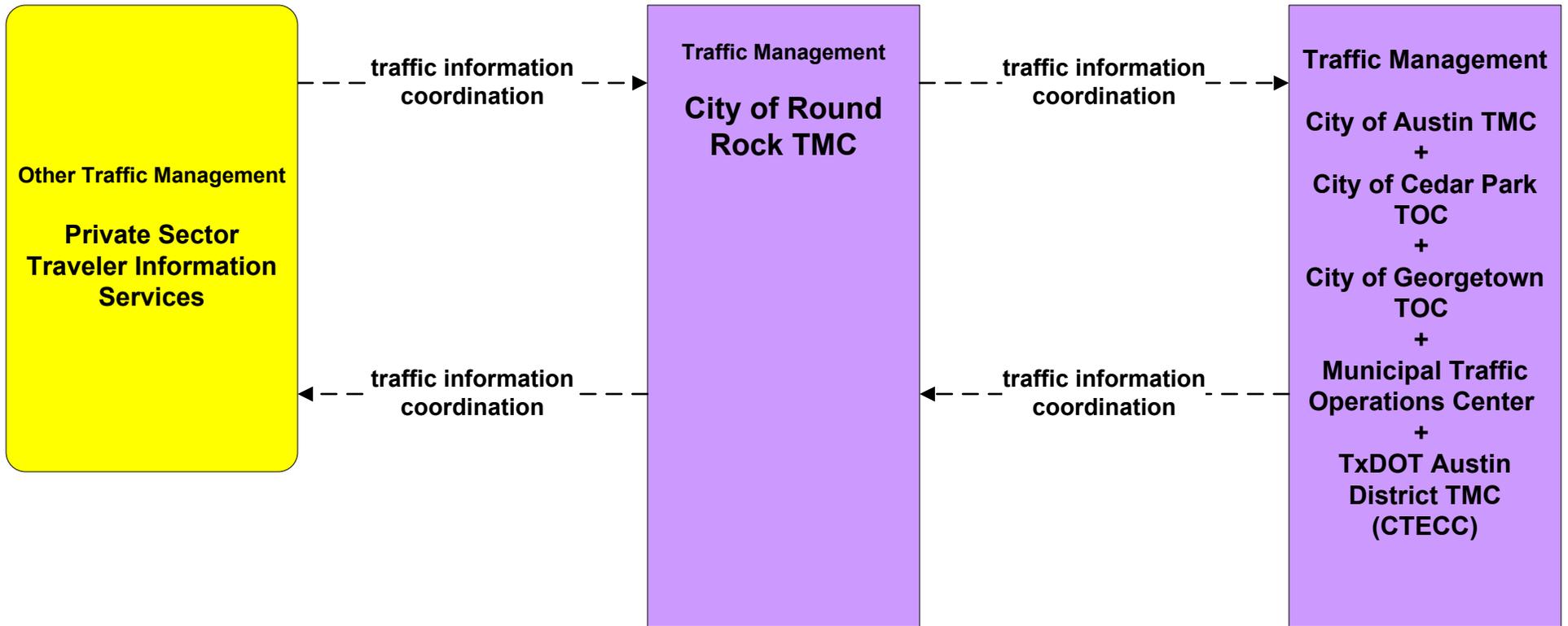
**ATMS07 - Regional Traffic Control
City of Cedar Park TOC**



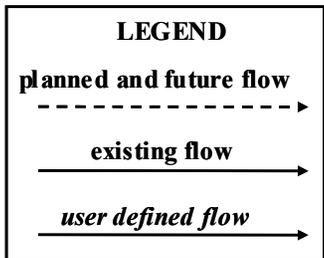
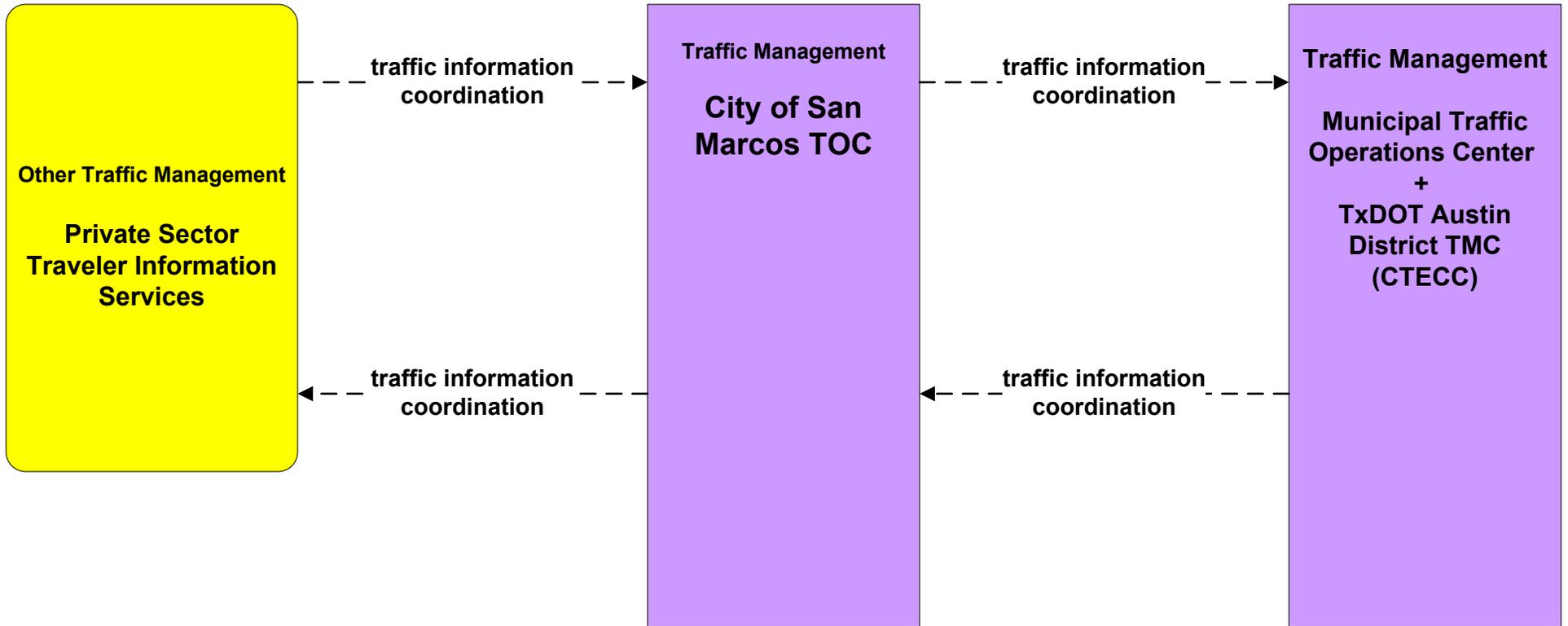
**ATMS07 - Regional Traffic Control
City of Georgetown TOC**



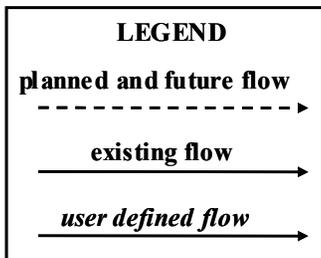
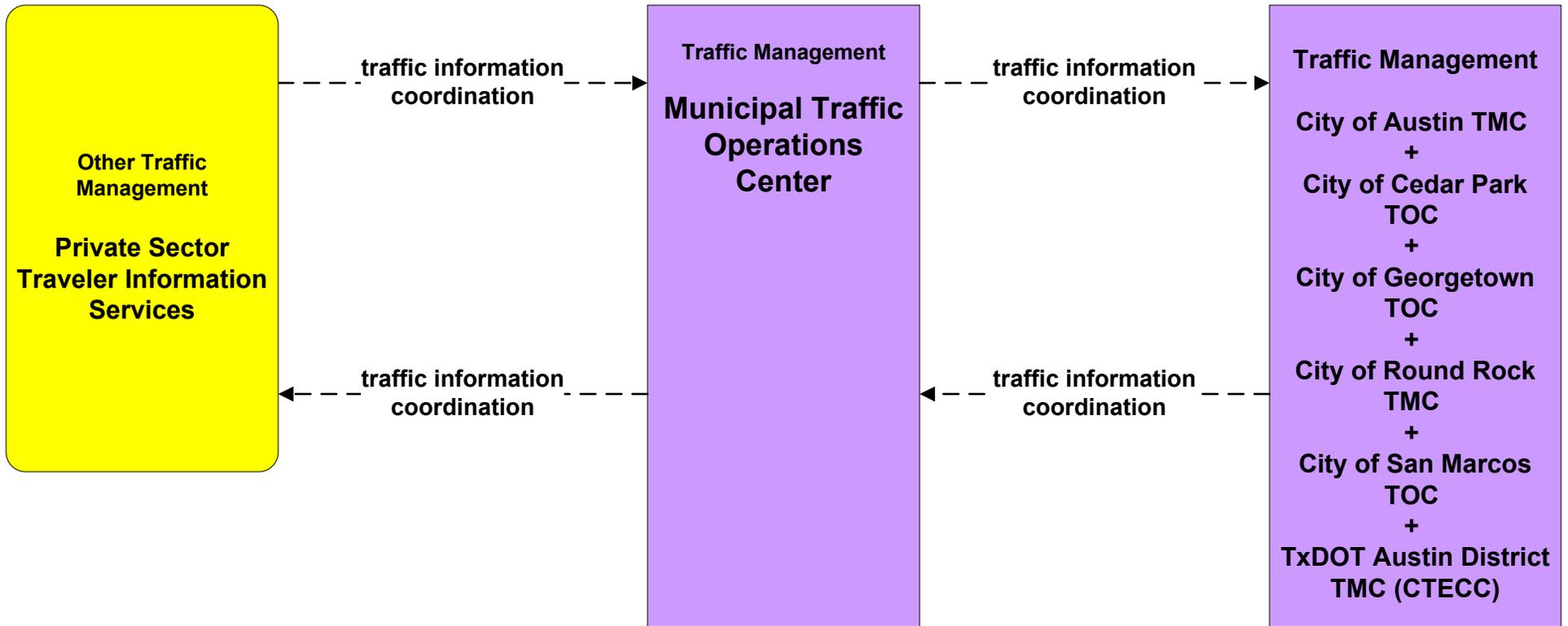
**ATMS07 - Regional Traffic Control
City of Round Rock TMC**



**ATMS07 - Regional Traffic Control
City of San Marcos TOC**



ATMS07 - Regional Traffic Control Municipal TOC



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

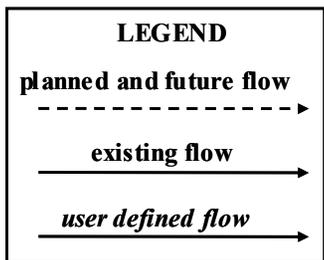
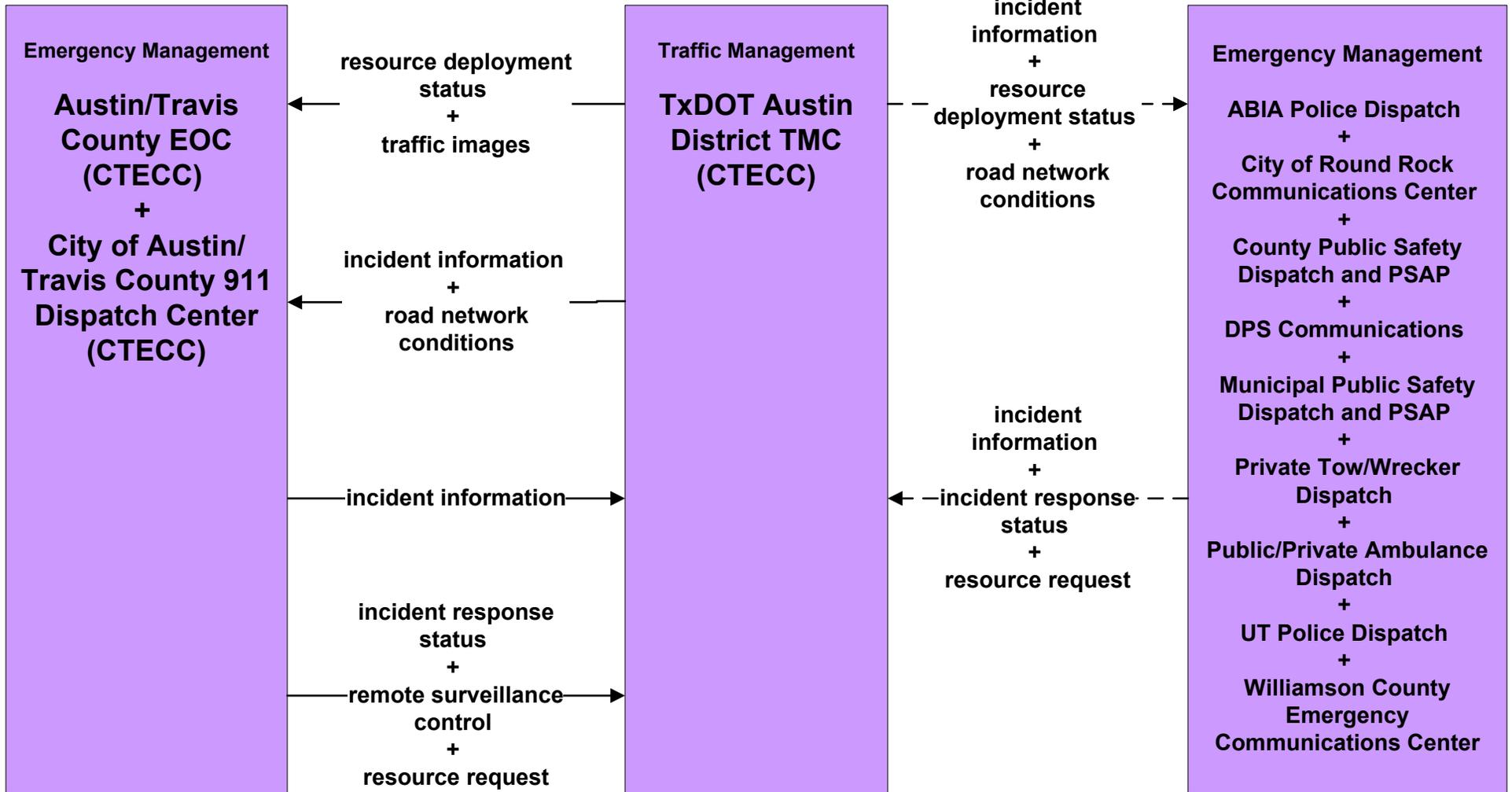
Emergency Vehicle Preemption

ATMS08 - Incident Management

Traffic Management \leftrightarrow *Emergency Management*

ATMS08 - Incident Management

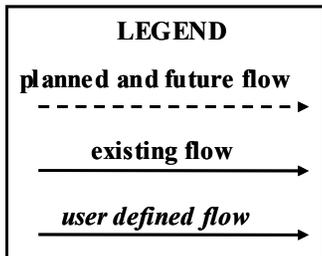
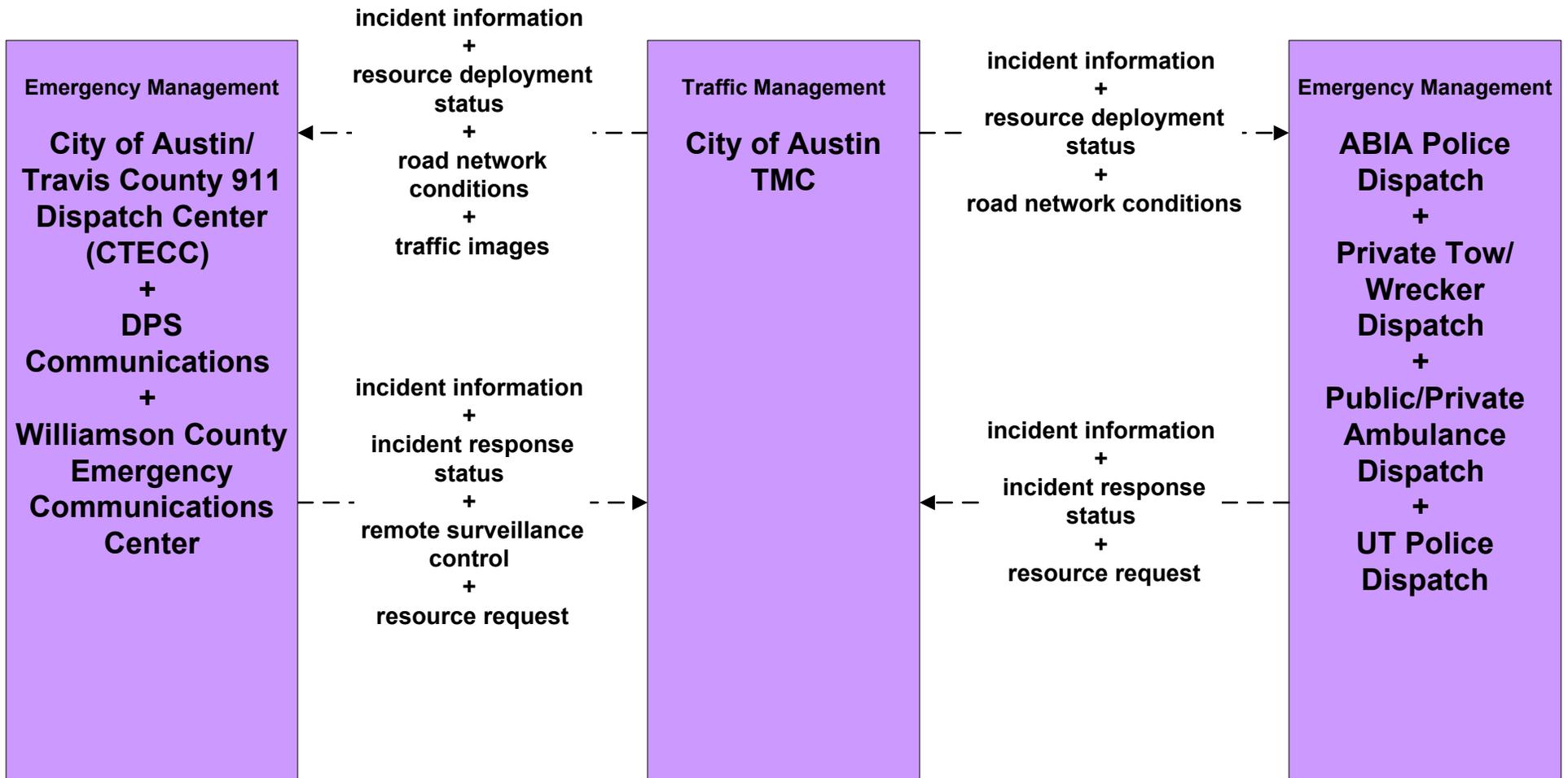
TxDOT Austin District TMC – (TM to EM)



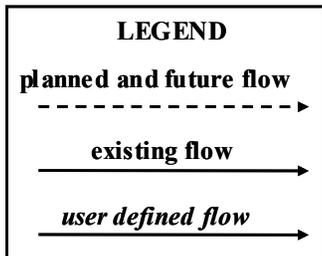
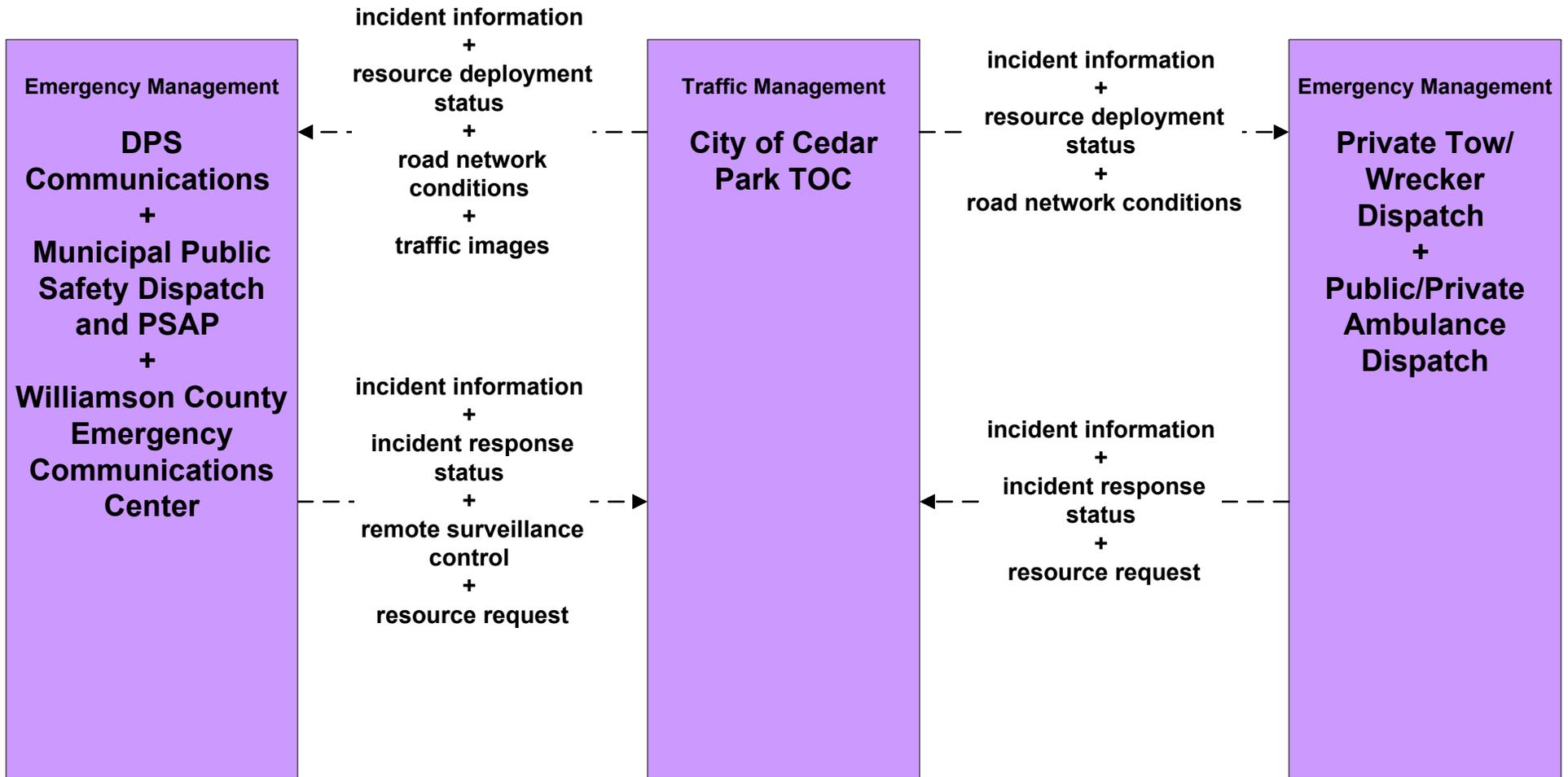
Transit providers get "road network conditions" (for incident information) directly from CTECC (see APTS2 and APTS3).

ATMS08 - Incident Management

City of Austin TMC – (TM to EM)

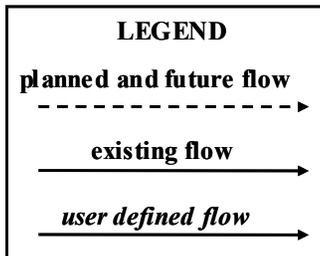
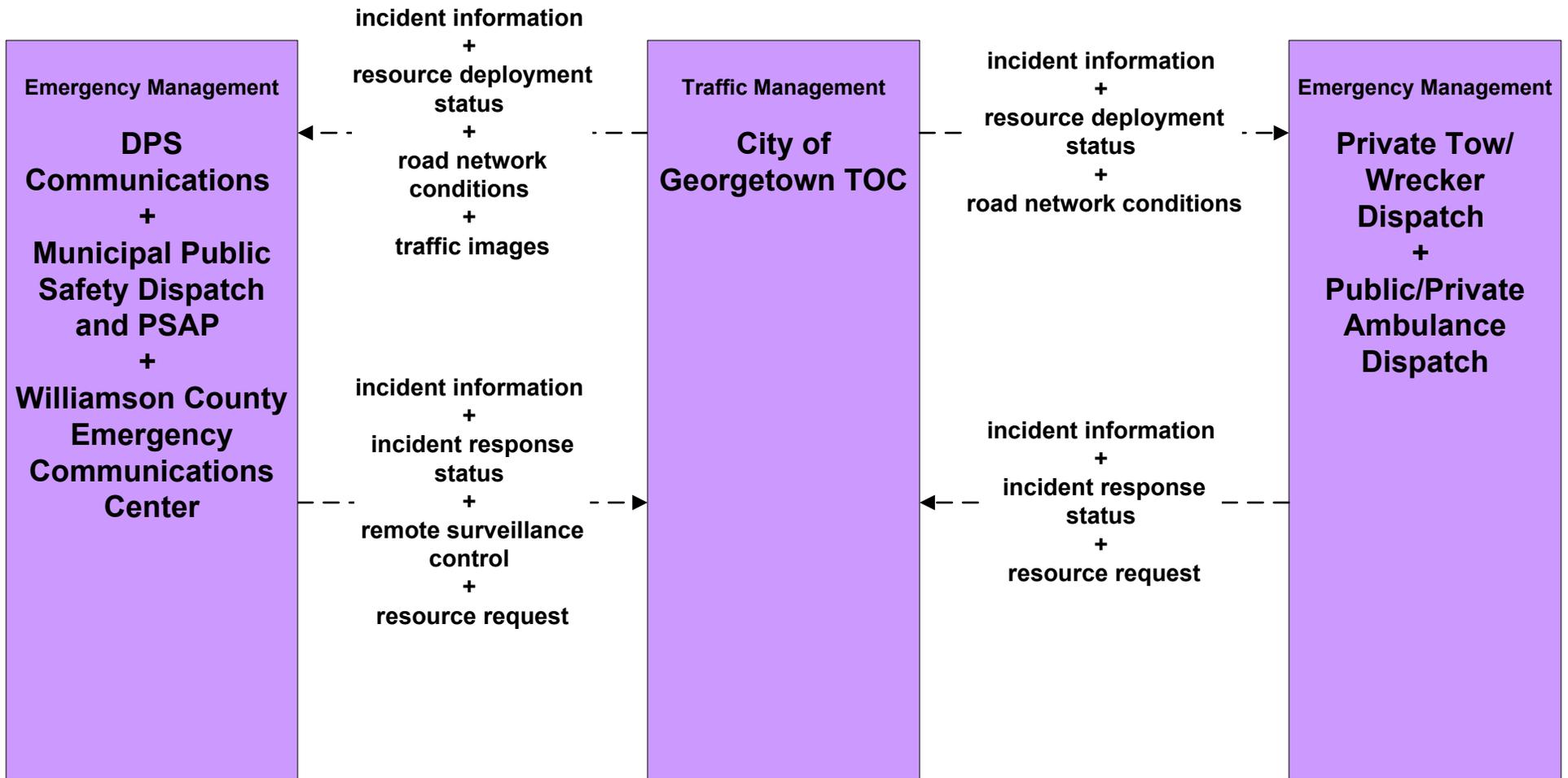


**ATMS08 - Incident Management
City of Cedar Park TOC – (TM to EM)**



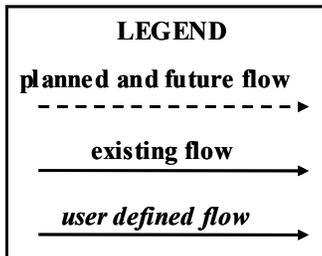
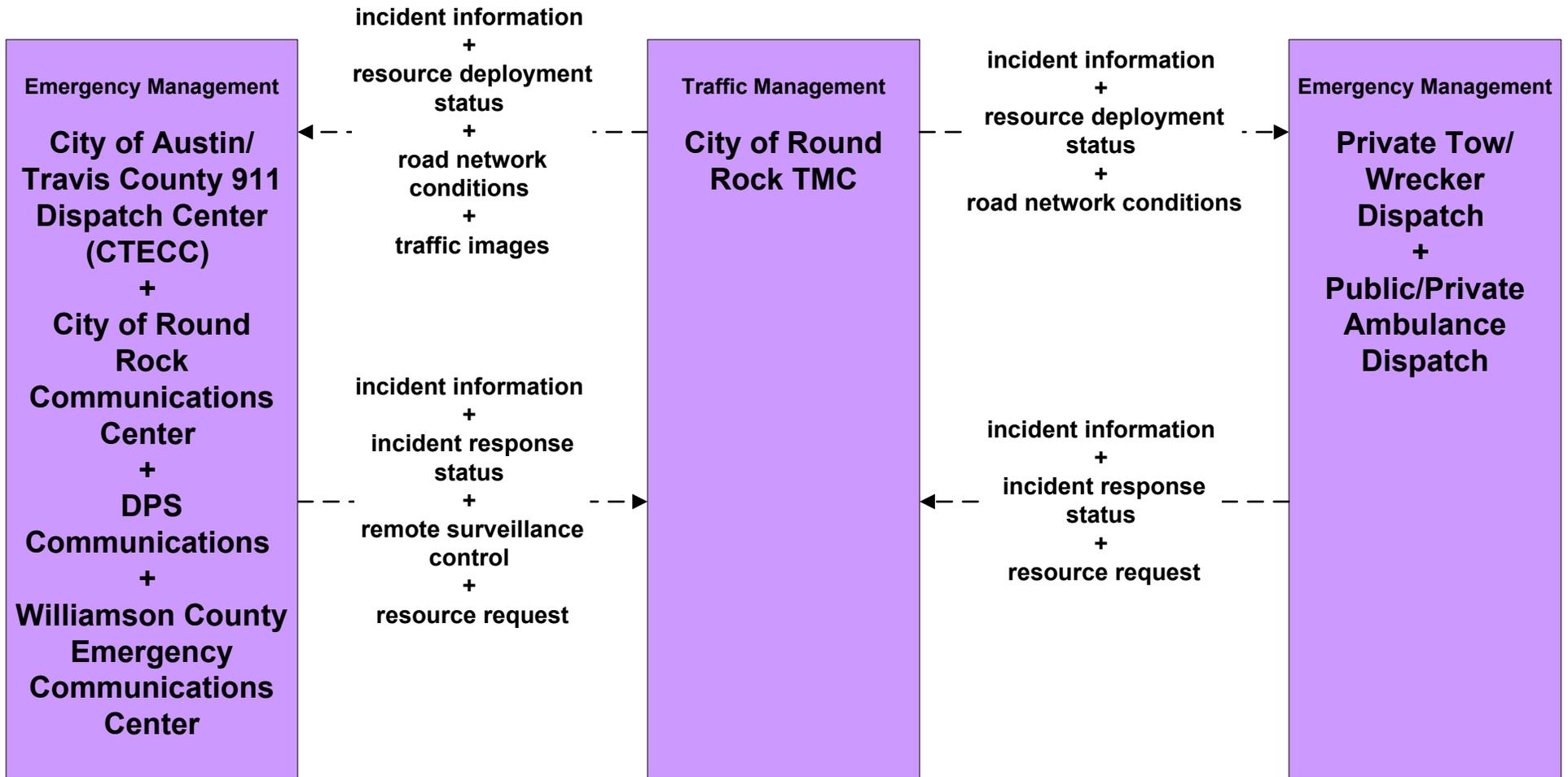
ATMS08 - Incident Management

City of Georgetown TOC – (TM to EM)

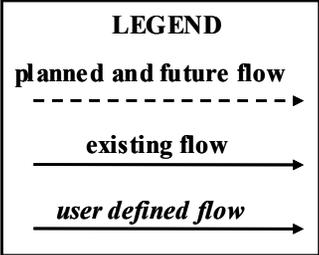
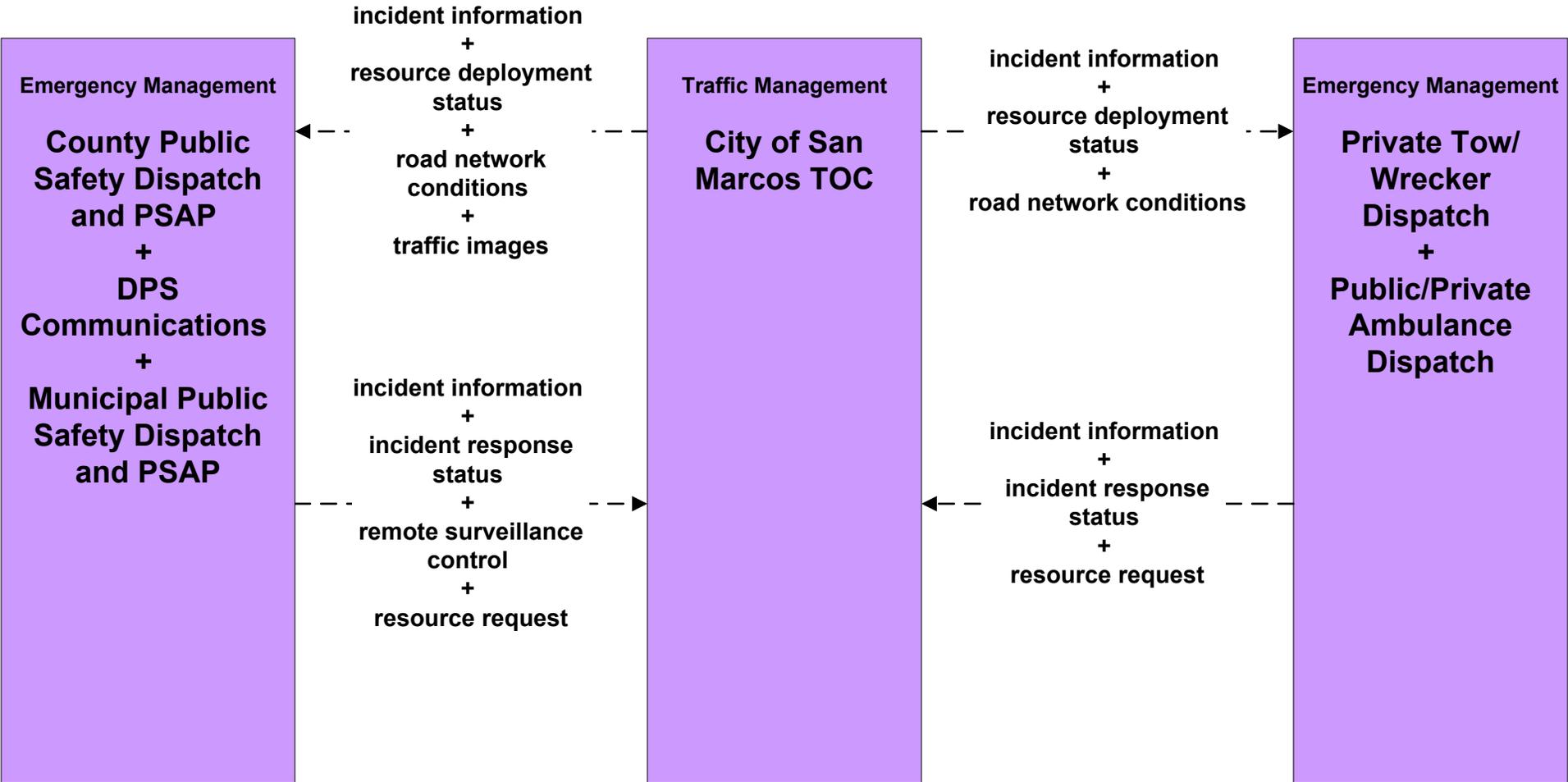


ATMS08 - Incident Management

City of Round Rock TMC – (TM to EM)

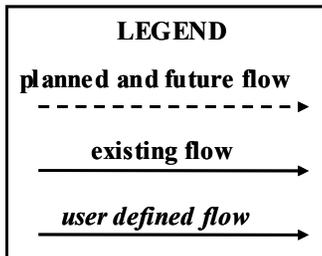
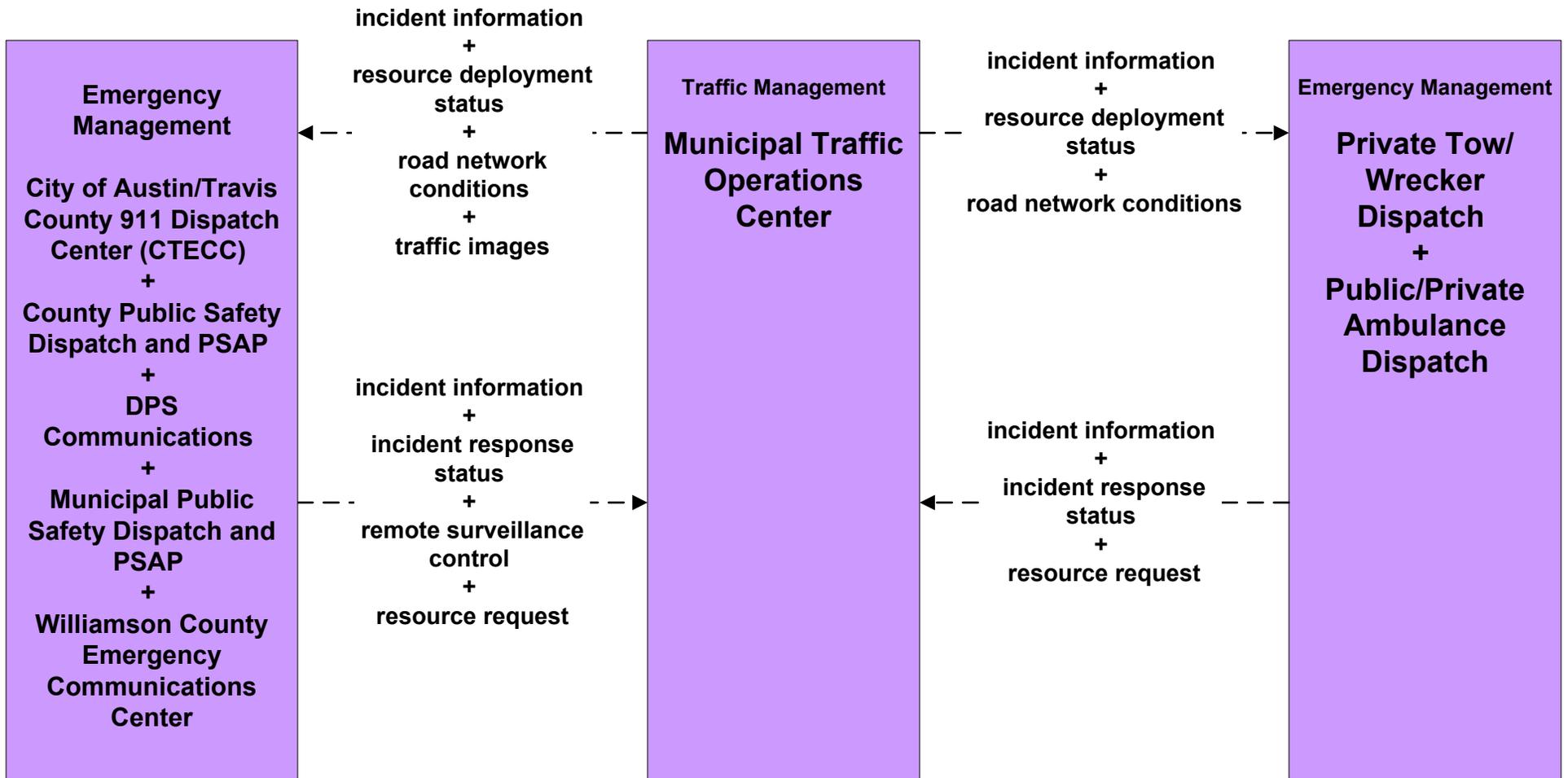


**ATMS08 - Incident Management
City of San Marcos TMC – (TM to EM)**



ATMS08 - Incident Management

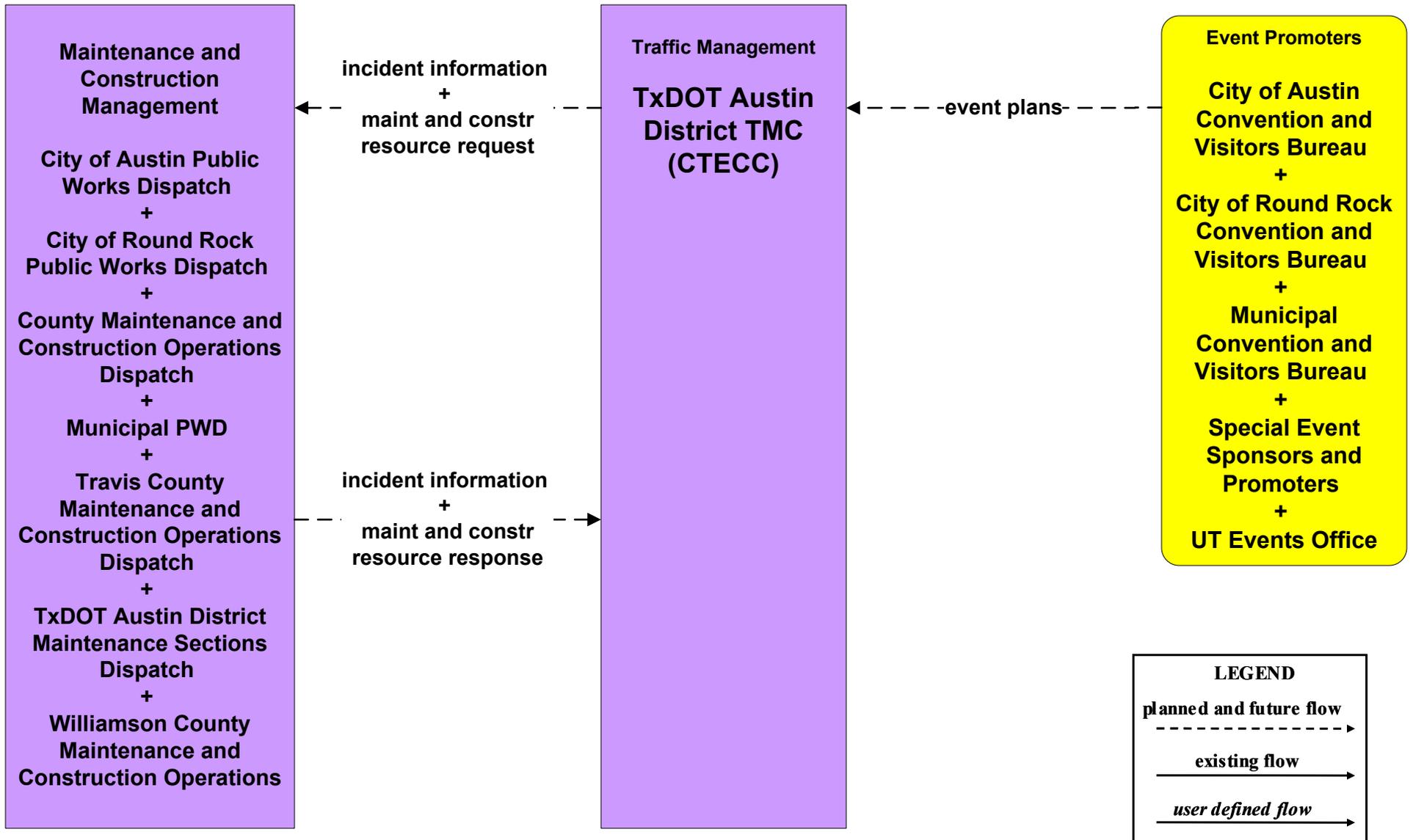
Municipal Traffic Operations Center – (TM to EM)



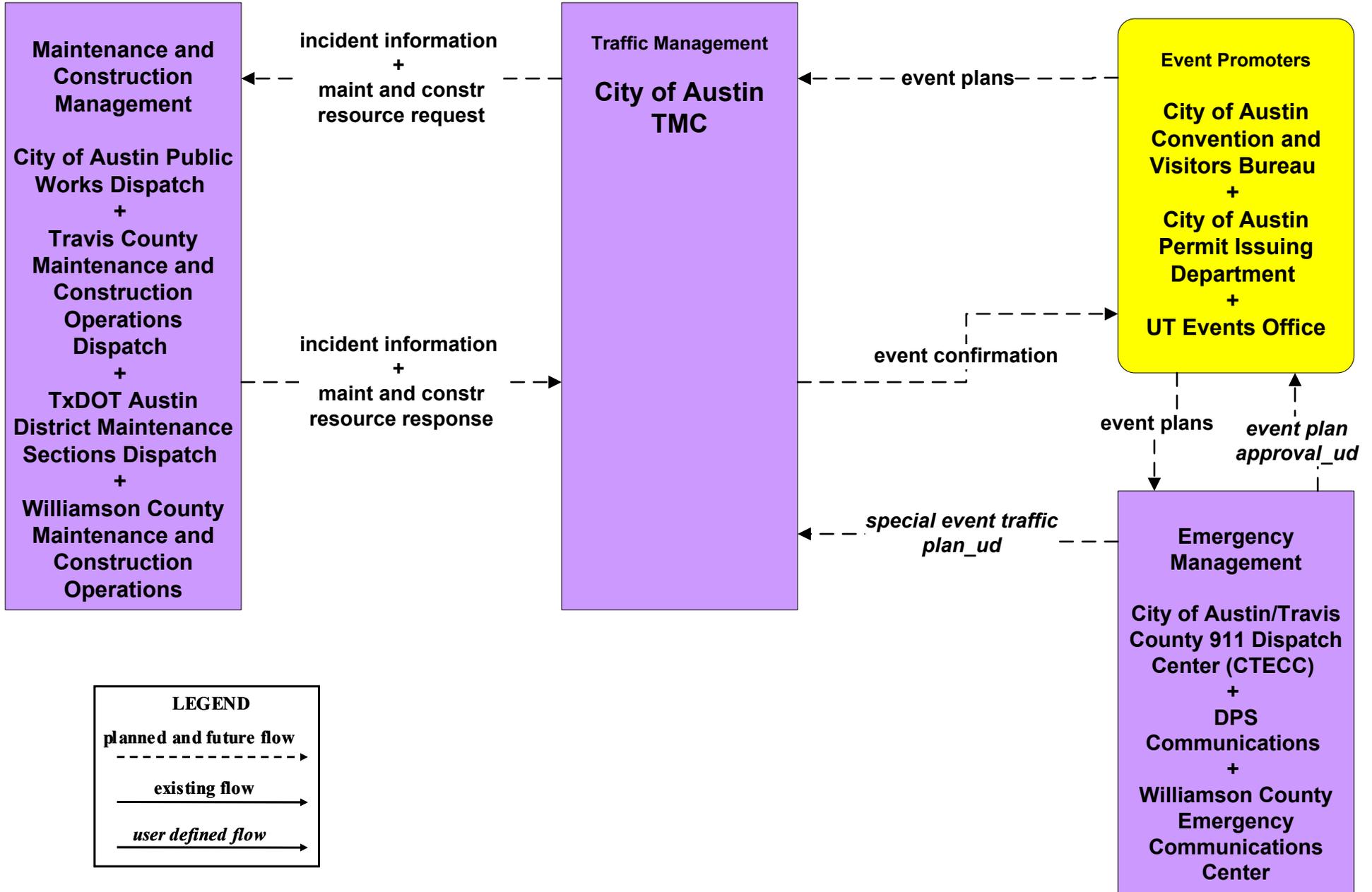
ATMS08 - Incident Management

Traffic Management ↔ *Maintenance and Construction Management*

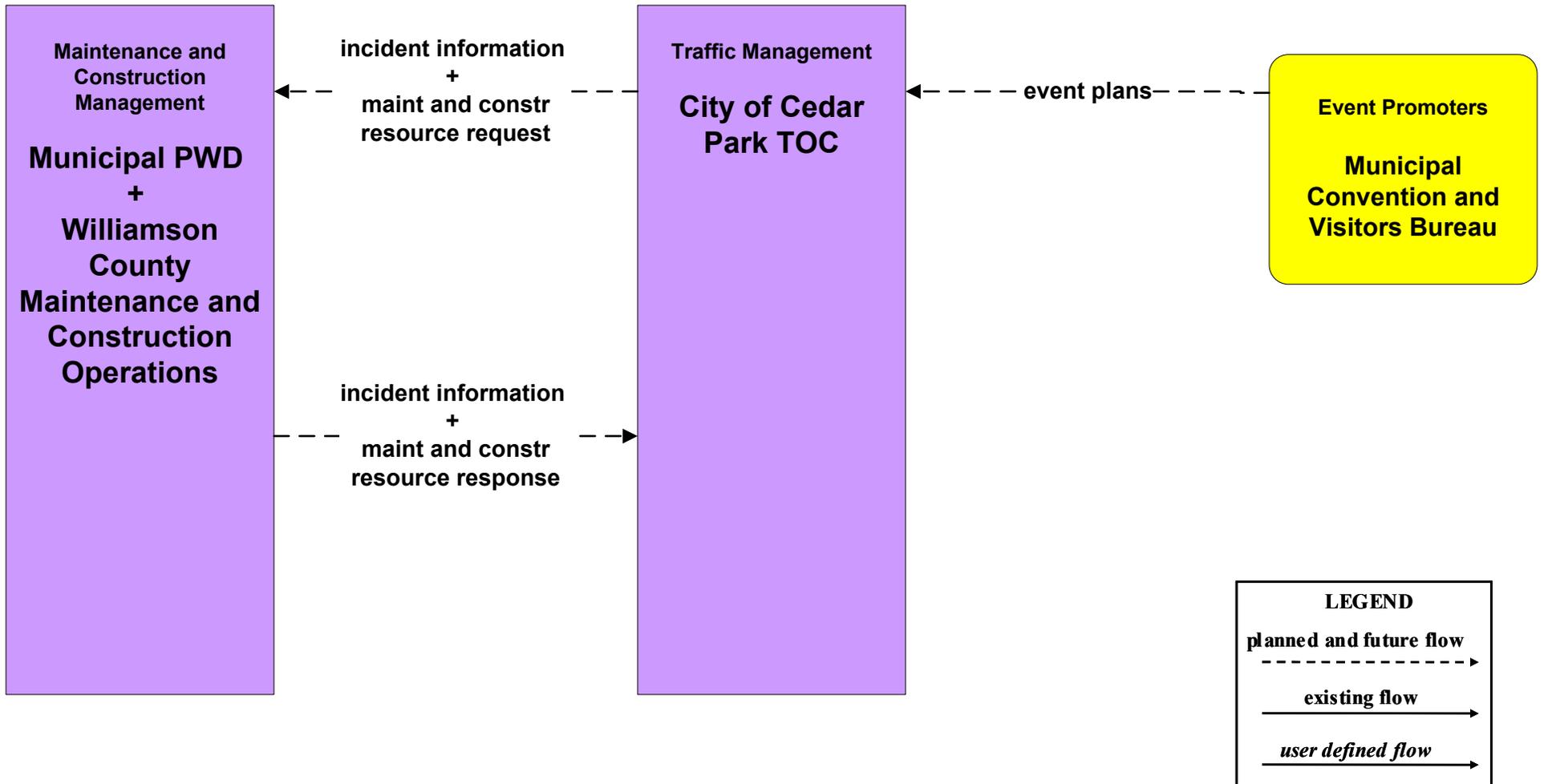
**ATMS08 - Incident Management
 TxDOT Austin Traffic Management Center – (TM to MCM)**



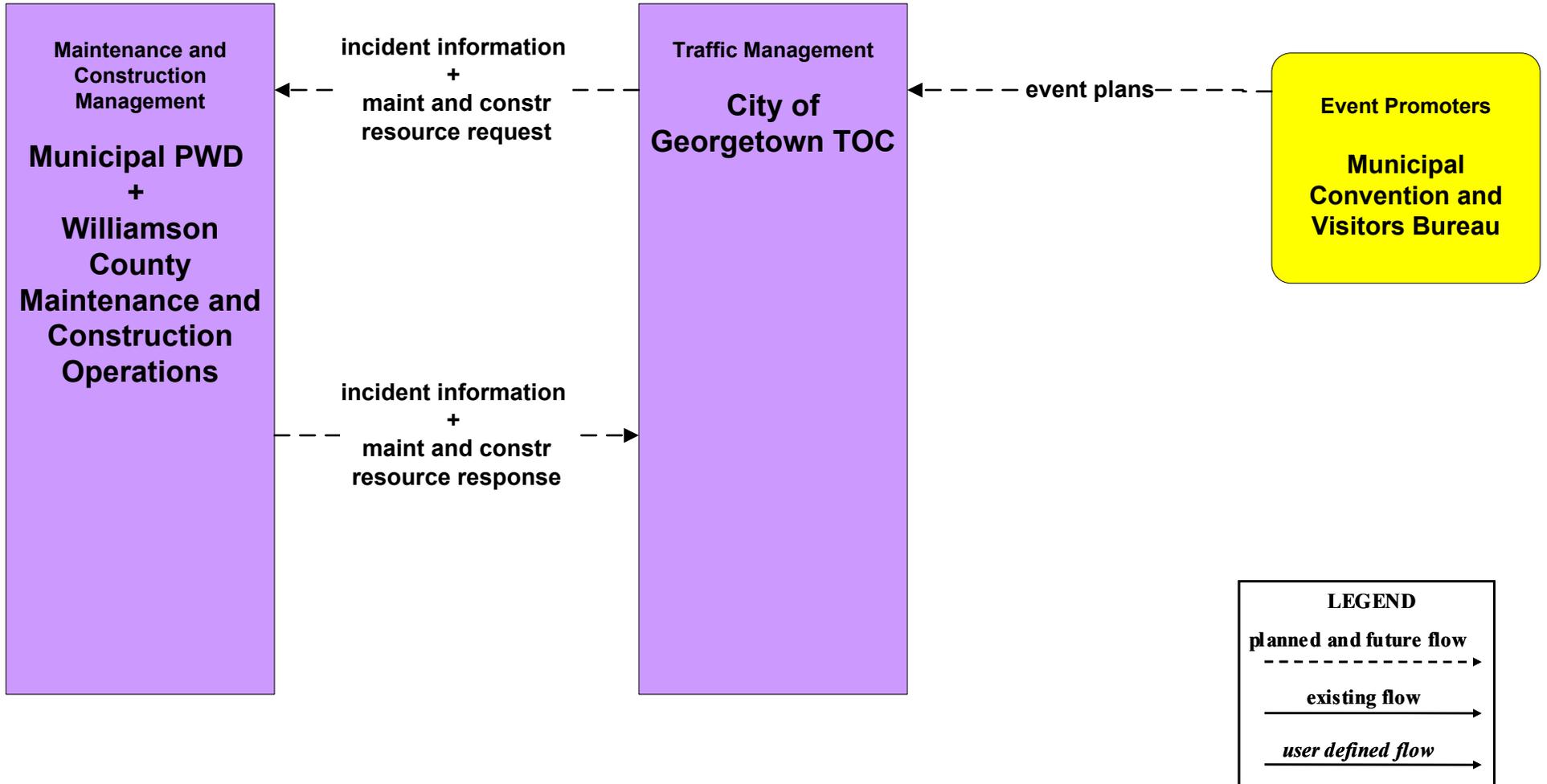
ATMS08 - Incident Management
City of Austin Traffic Management Center – (TM to MCM)



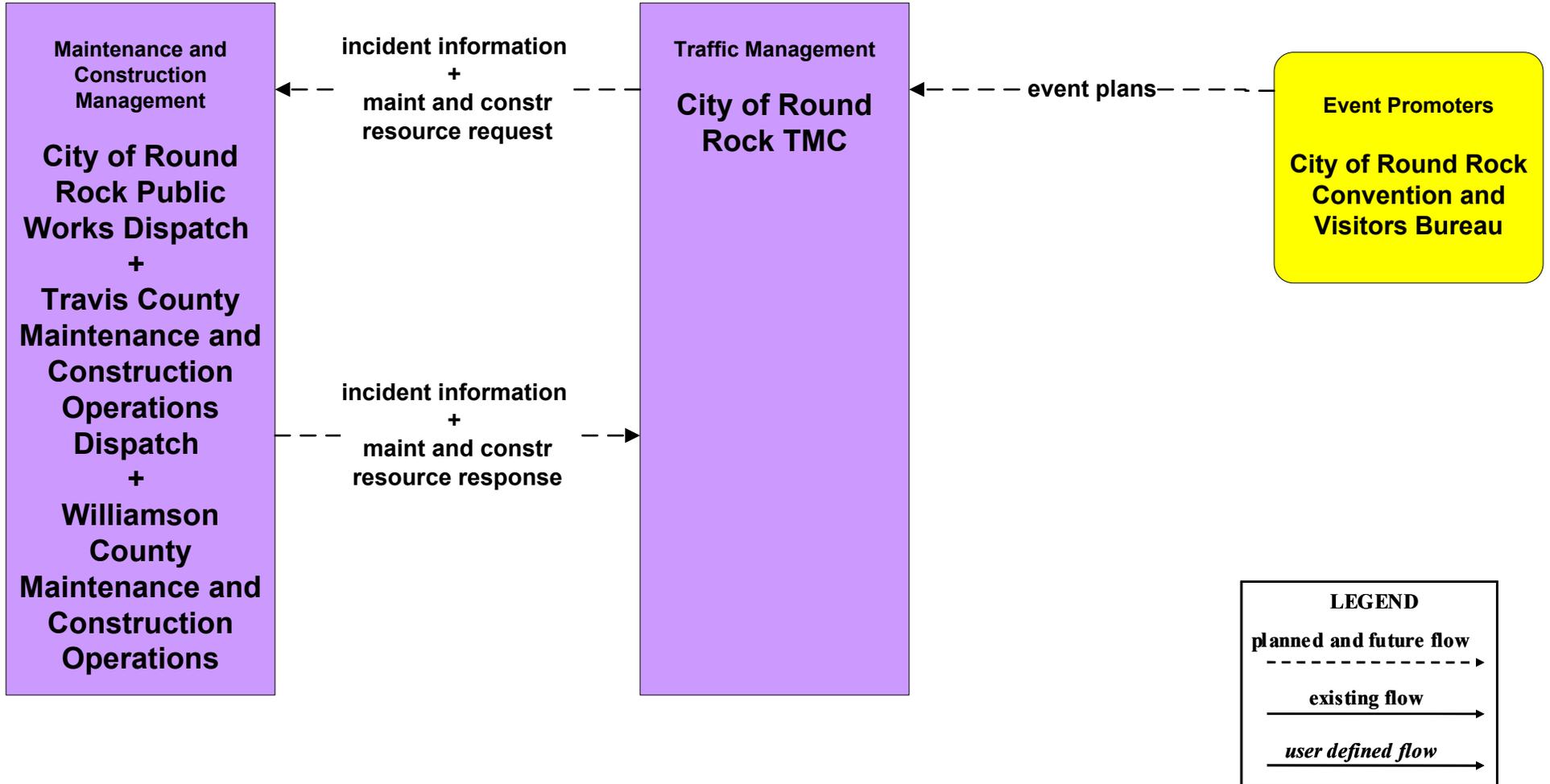
ATMS08 - Incident Management
City of Cedar Park Traffic Operations Center – (TM to MCM)



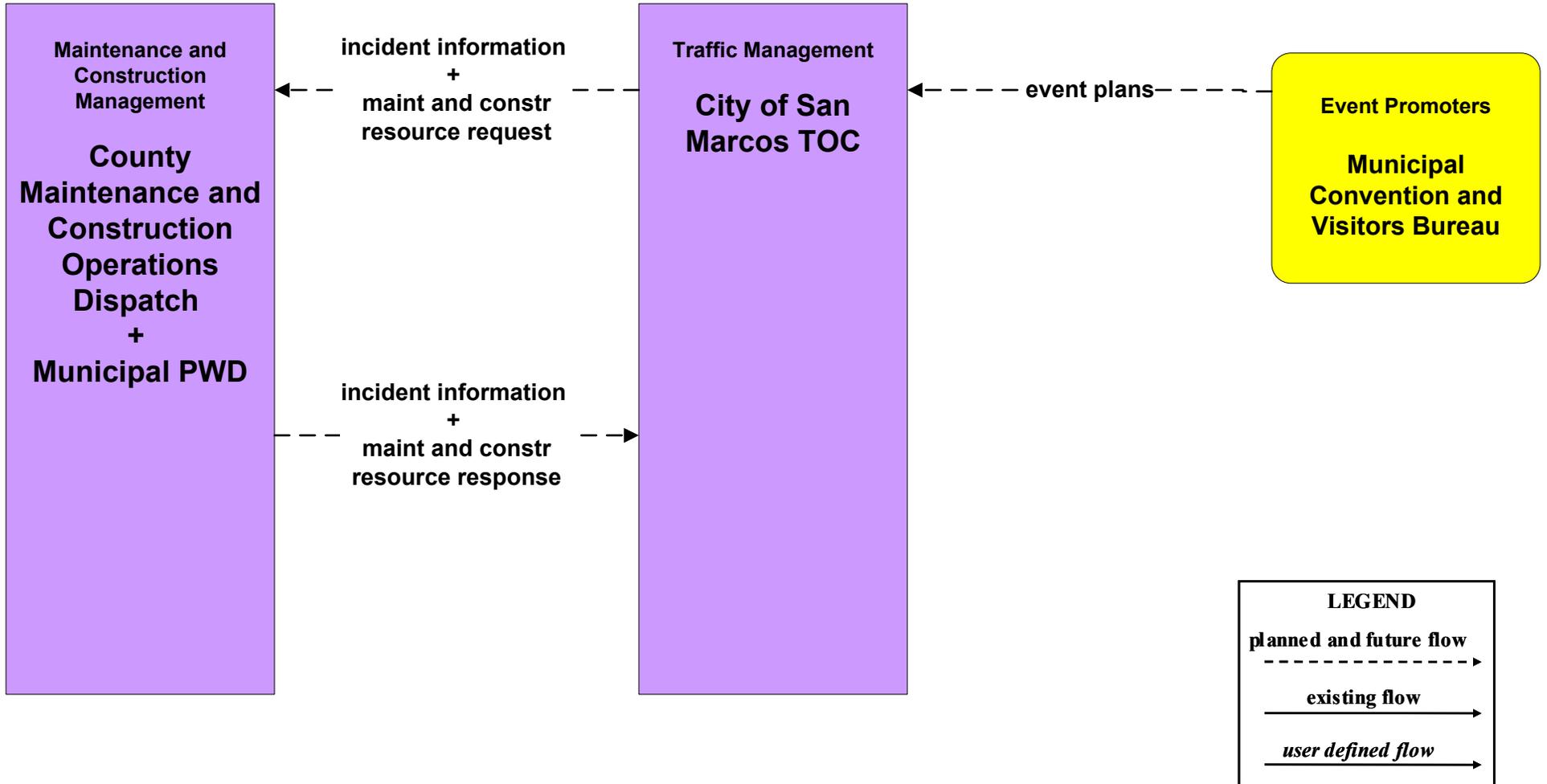
ATMS08 - Incident Management
City of Georgetown Traffic Operations Center – (TM to MCM)



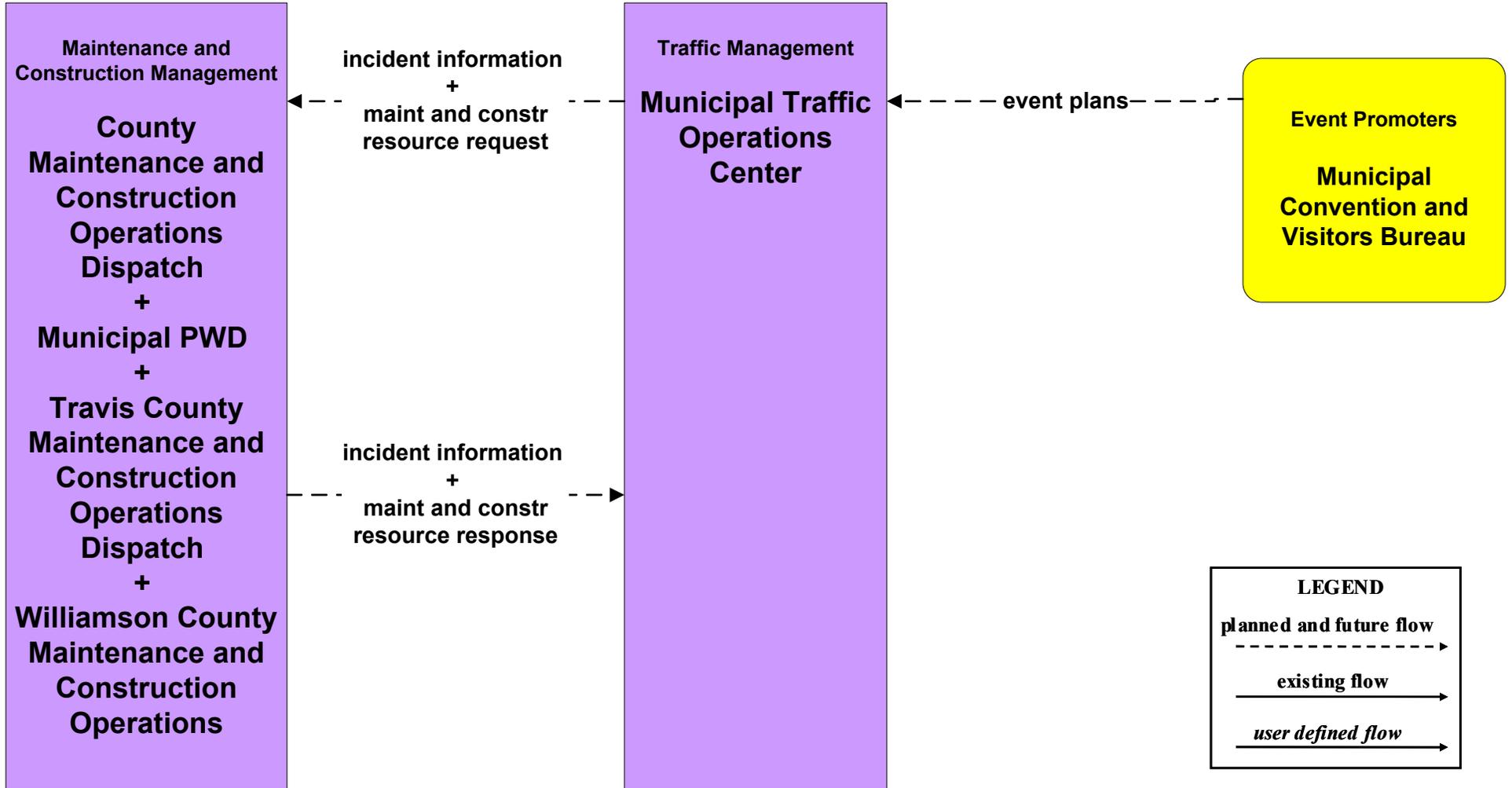
ATMS08 - Incident Management
City of Round Rock Traffic Management Center – (TM to MCM)



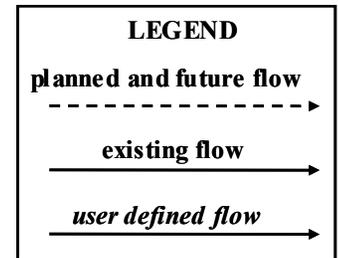
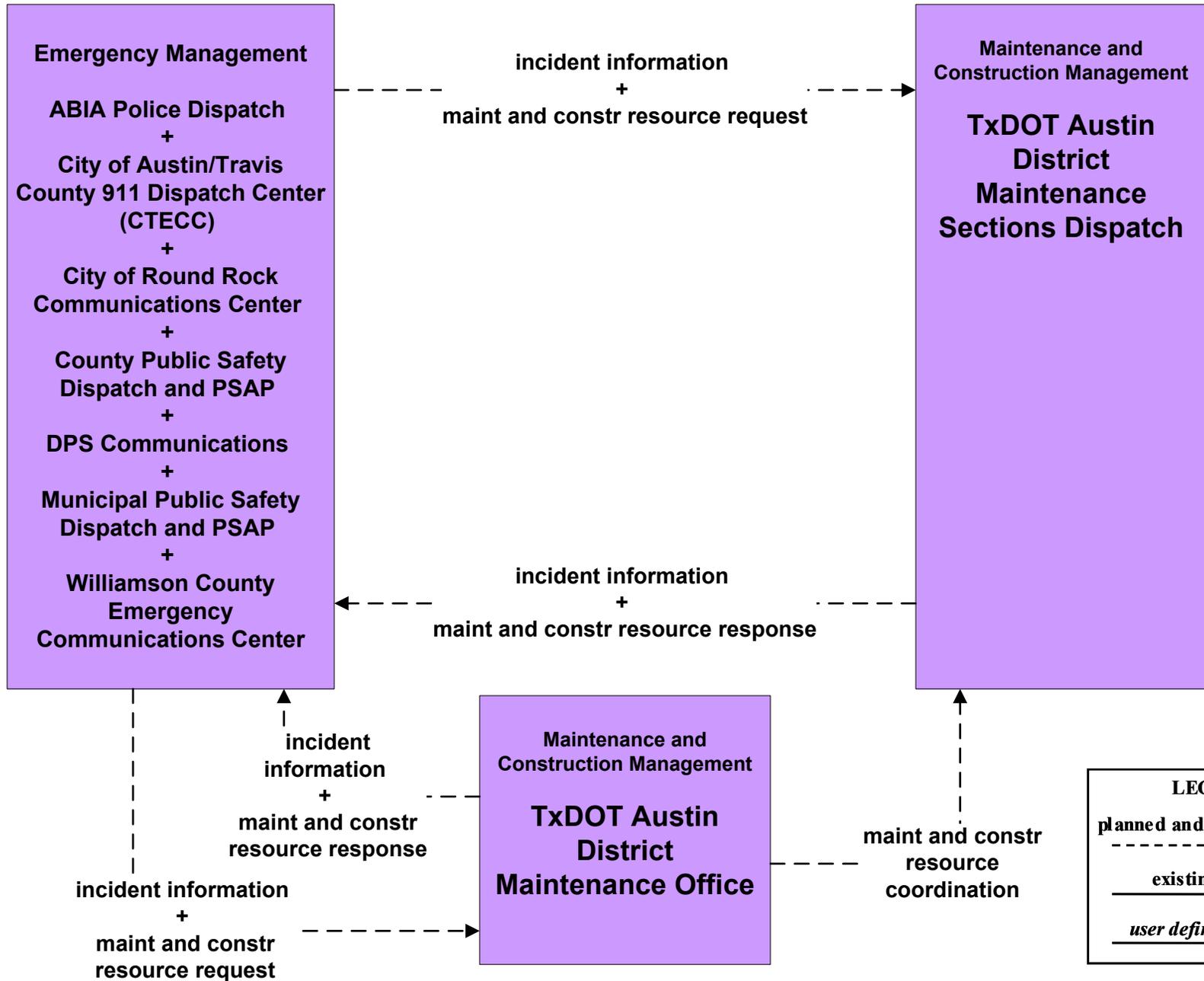
ATMS08 - Incident Management
City of San Marcos Traffic Operations Center – (TM to MCM)



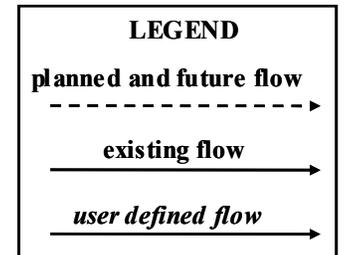
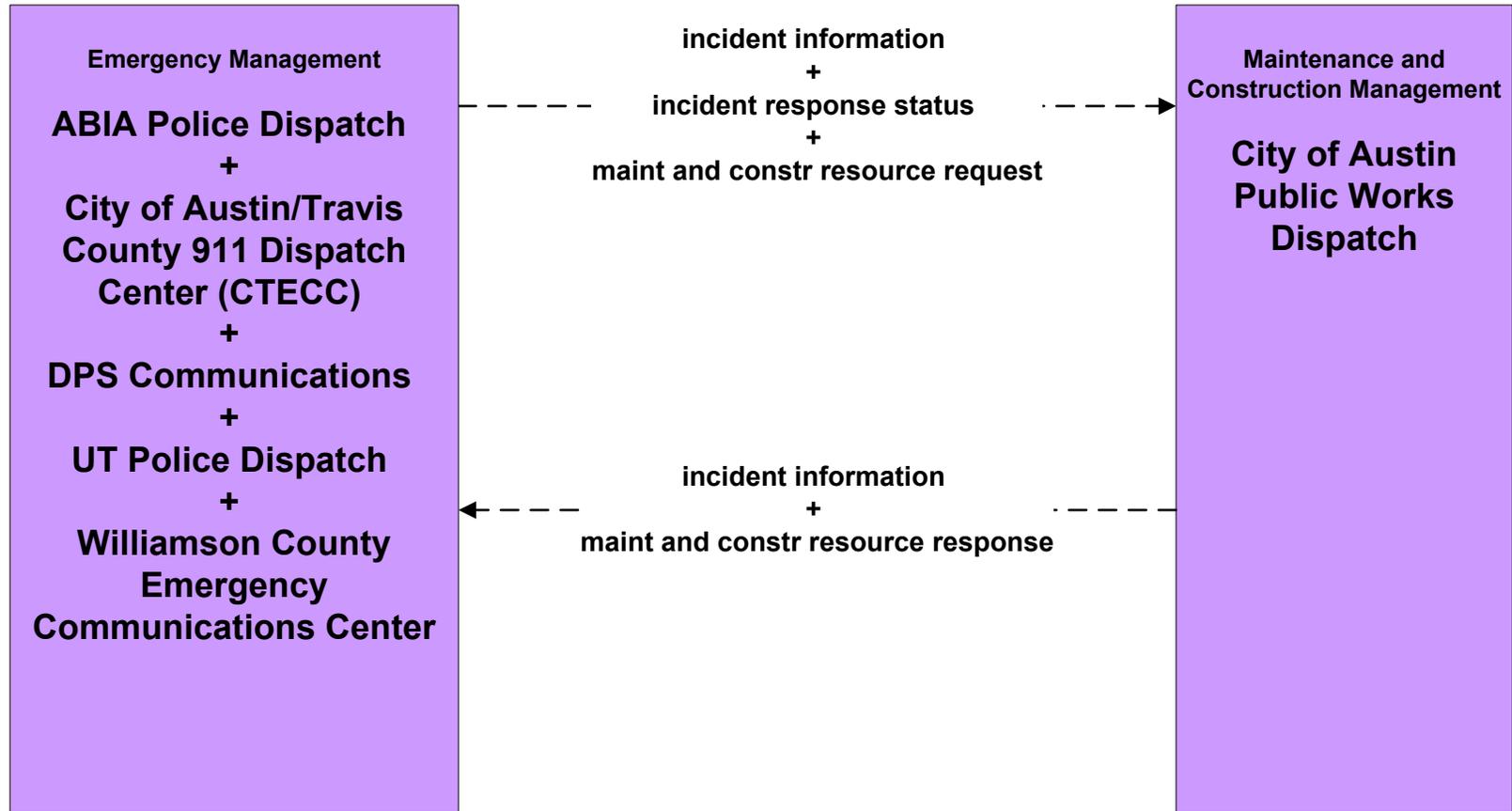
ATMS08 - Incident Management
Municipal Traffic Operations Center – (TM to MCM)



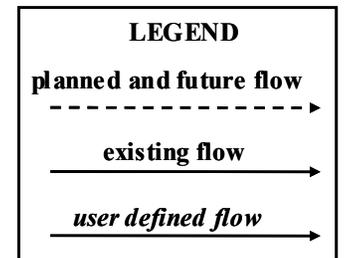
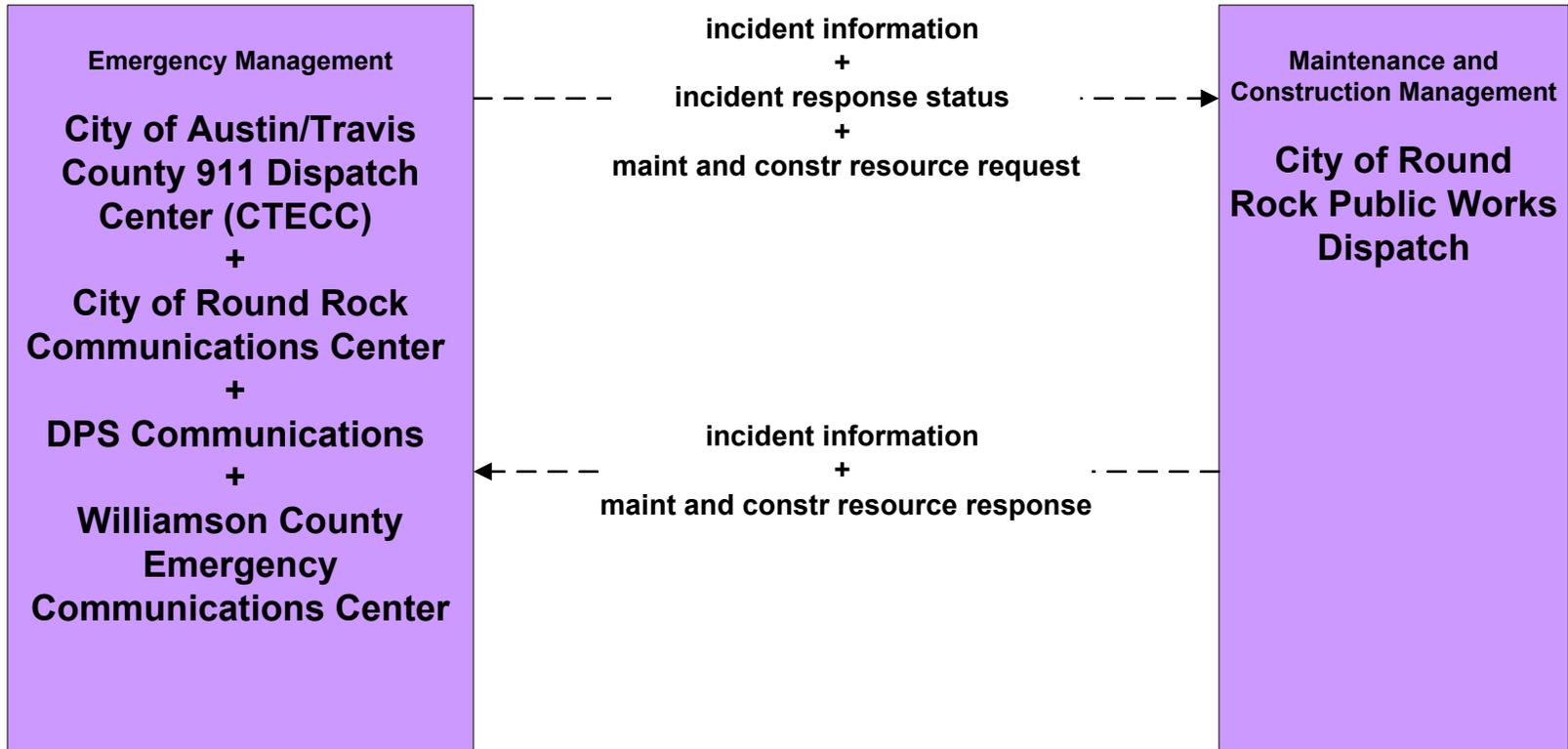
ATMS08 - Incident Management
TxDOT Austin District Maintenance Sections – (MCM to EM)



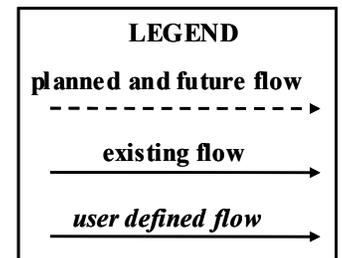
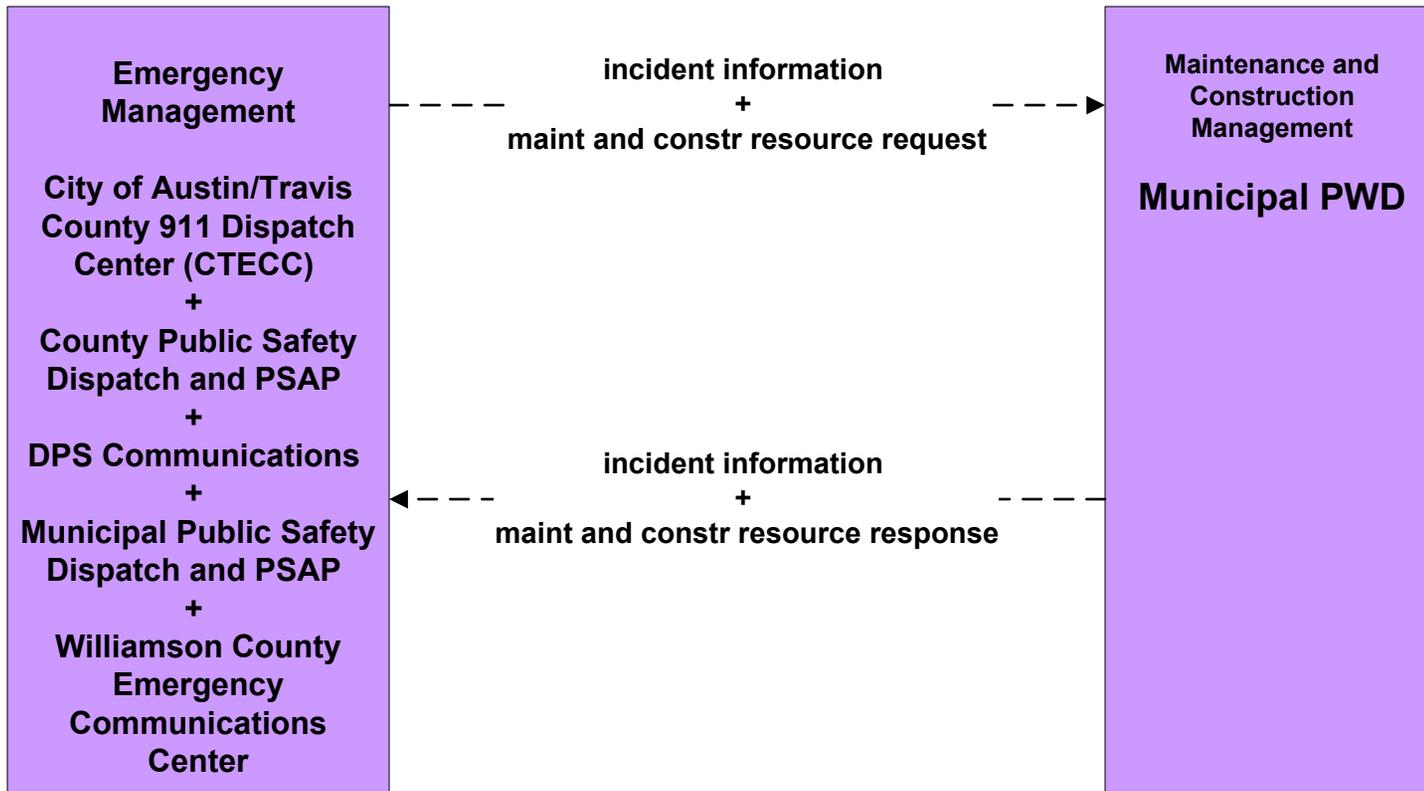
ATMS08 - Incident Management
City of Austin Maintenance System – (MCM to EM)



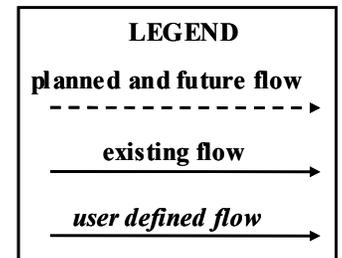
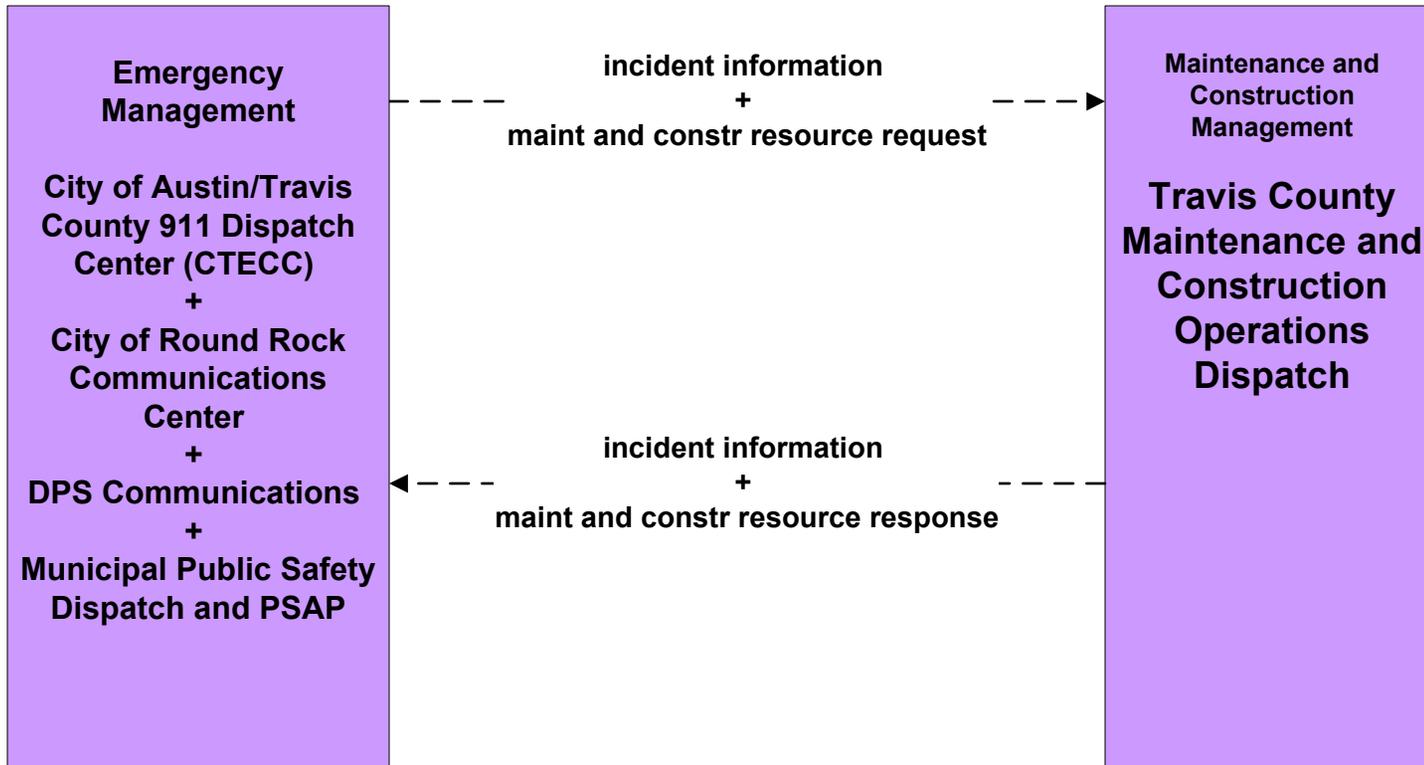
ATMS08 - Incident Management
City of Round Rock Maintenance System – (MCM to EM)



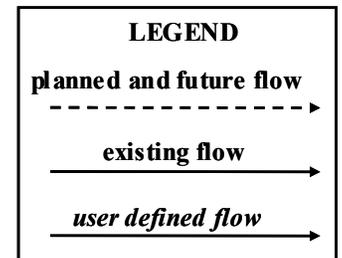
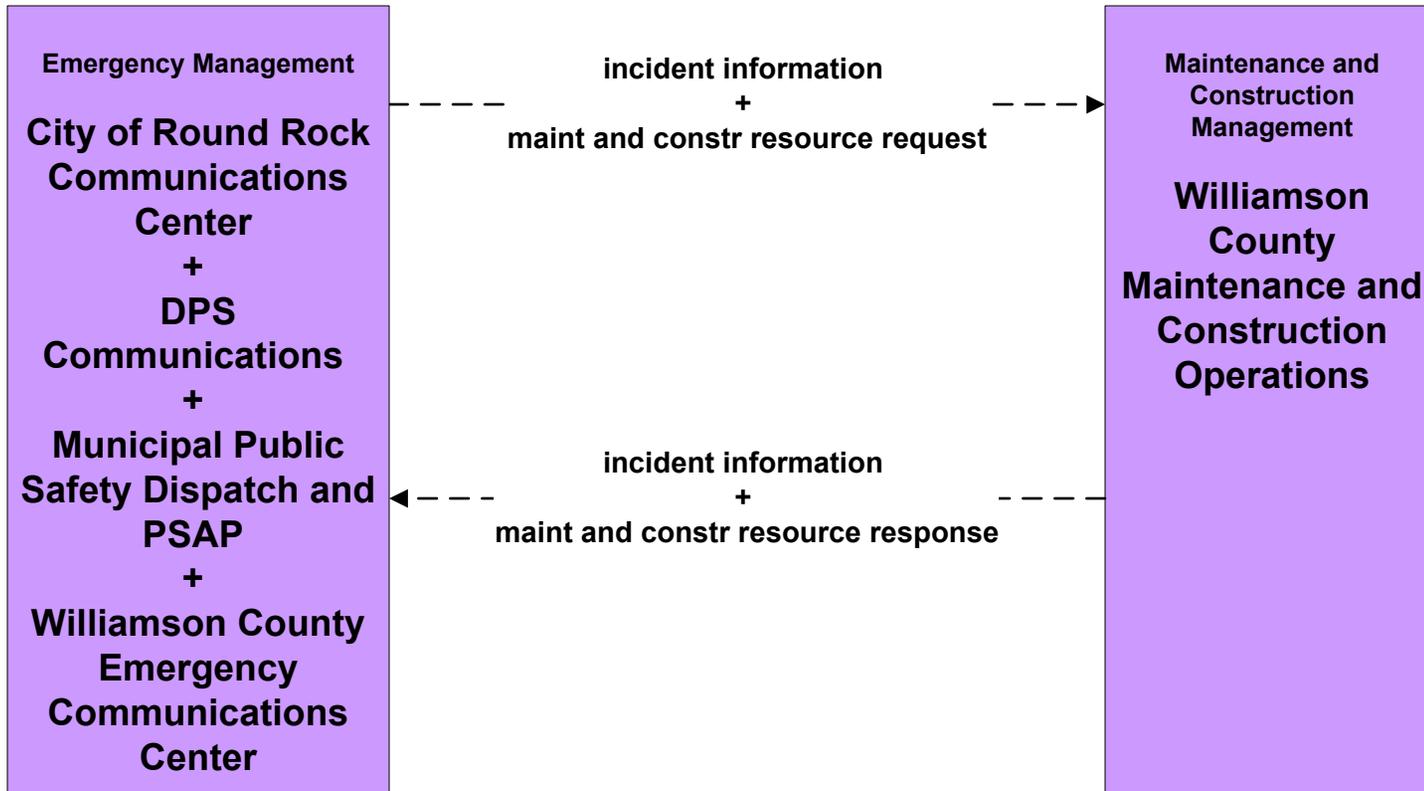
**ATMS08 - Incident Management
Municipal PWD – (MCM to EM)**



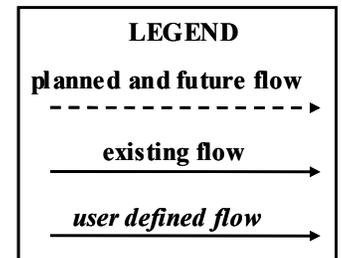
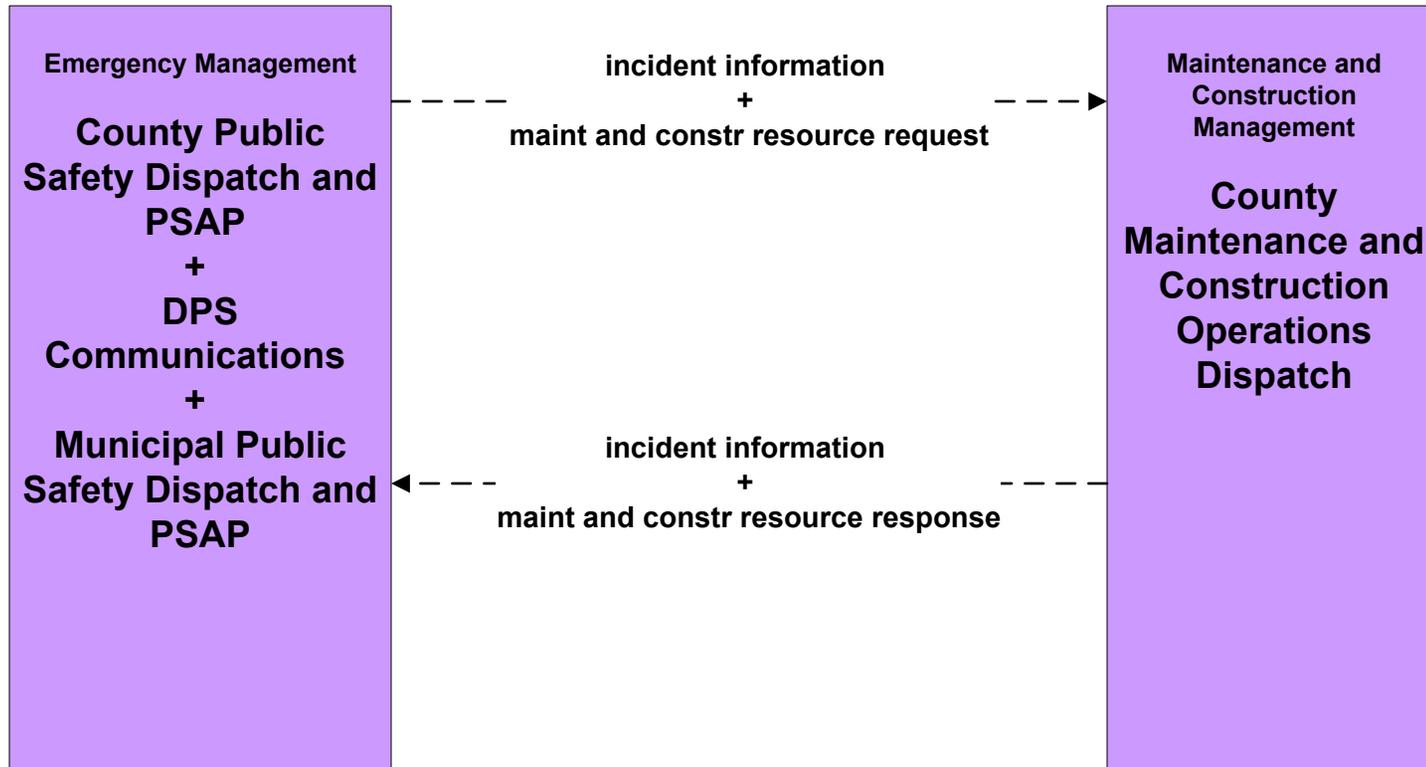
ATMS08 - Incident Management
Travis County Maintenance and Construction Operations – (MCM to EM)



ATMS08 - Incident Management
Williamson County Maintenance and Construction Operations – (MCM to EM)



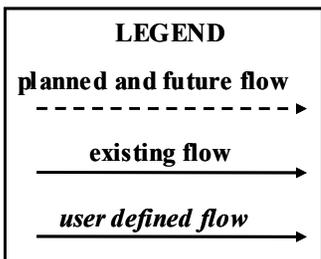
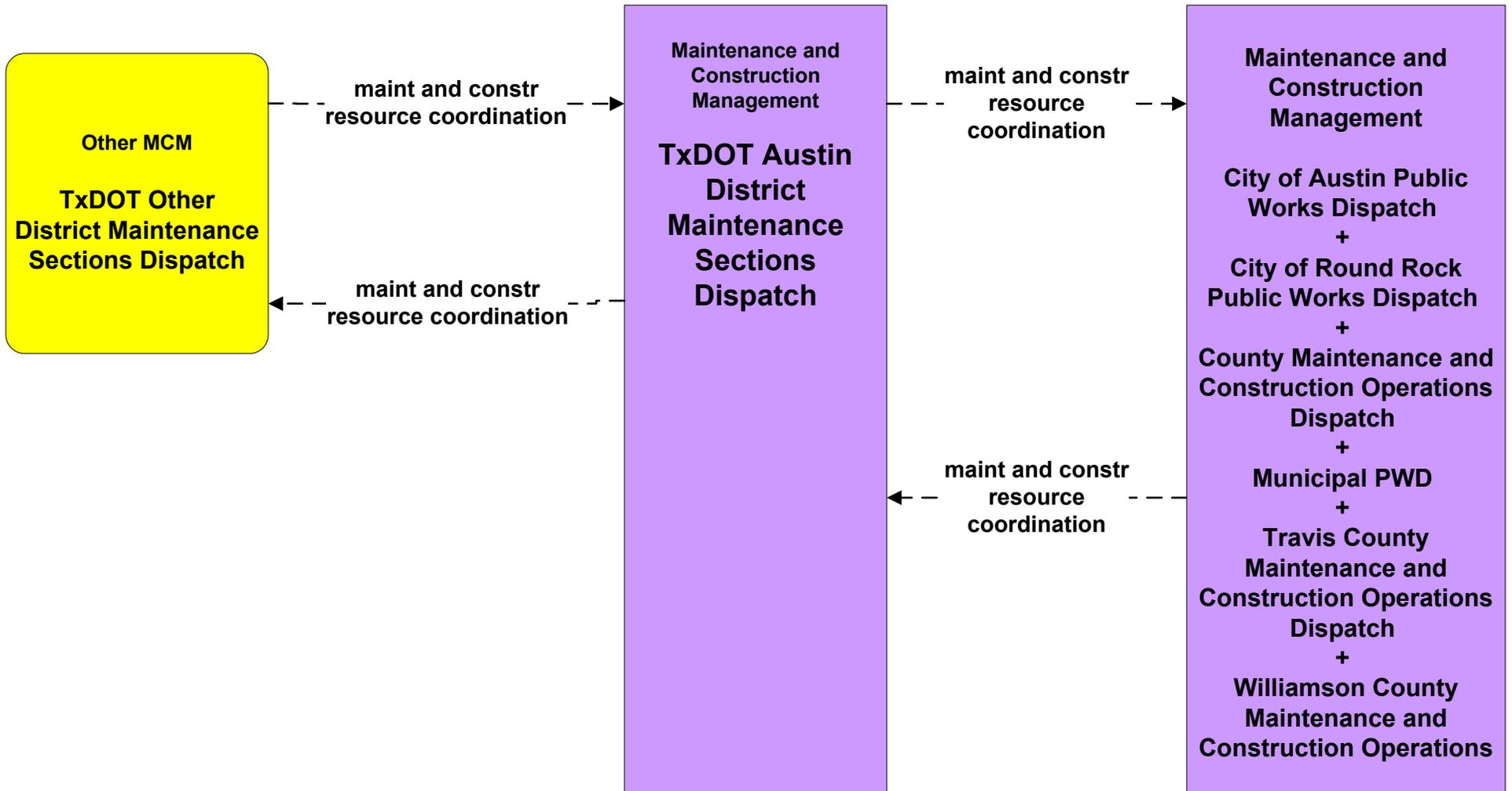
ATMS08 - Incident Management
County Maintenance and Construction Operations – (MCM to EM)



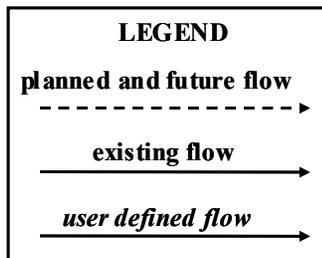
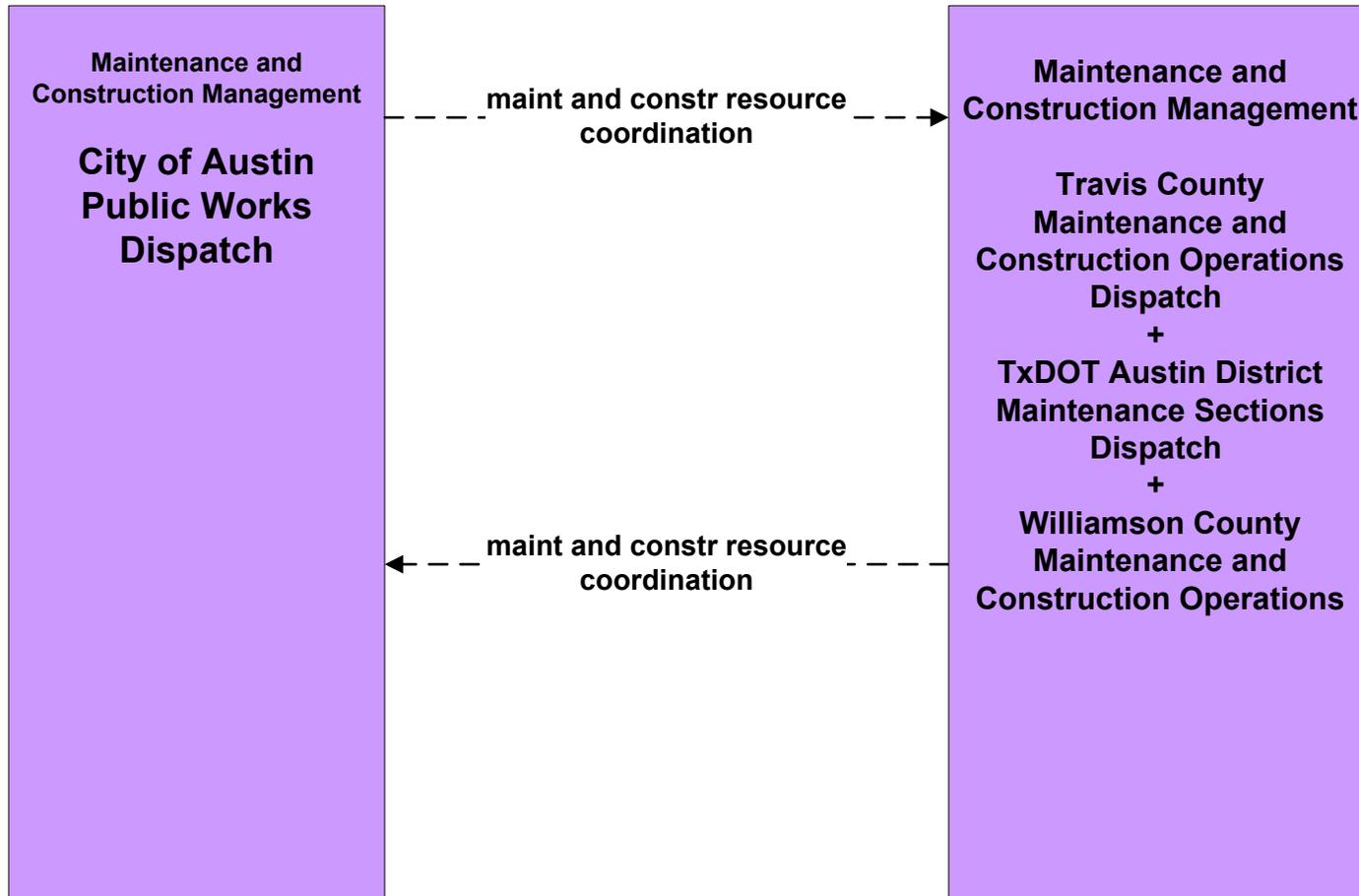
ATMS08 - Incident Management

Maintenance and Construction Management \leftrightarrow *Maintenance and Construction Management*

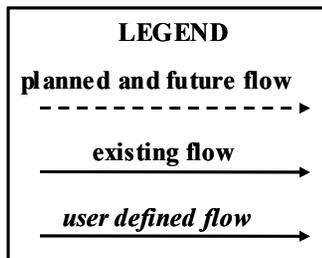
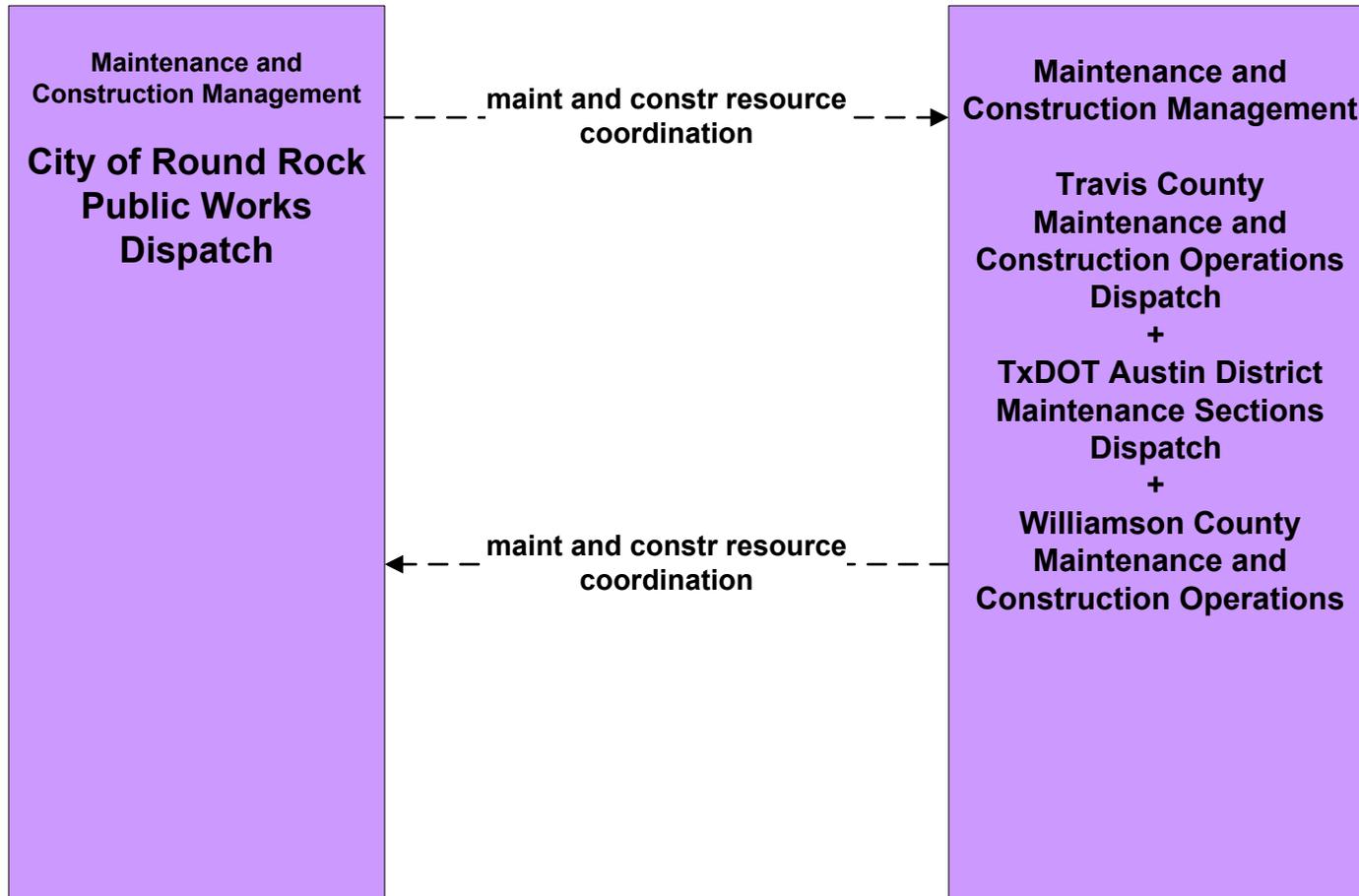
ATMS08 - Incident Management
TxDOT Austin District Maintenance Sections – (MCM to Other MCM)



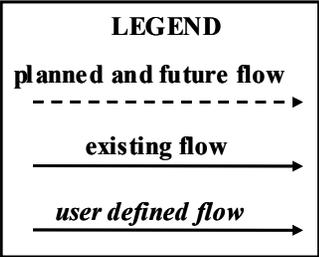
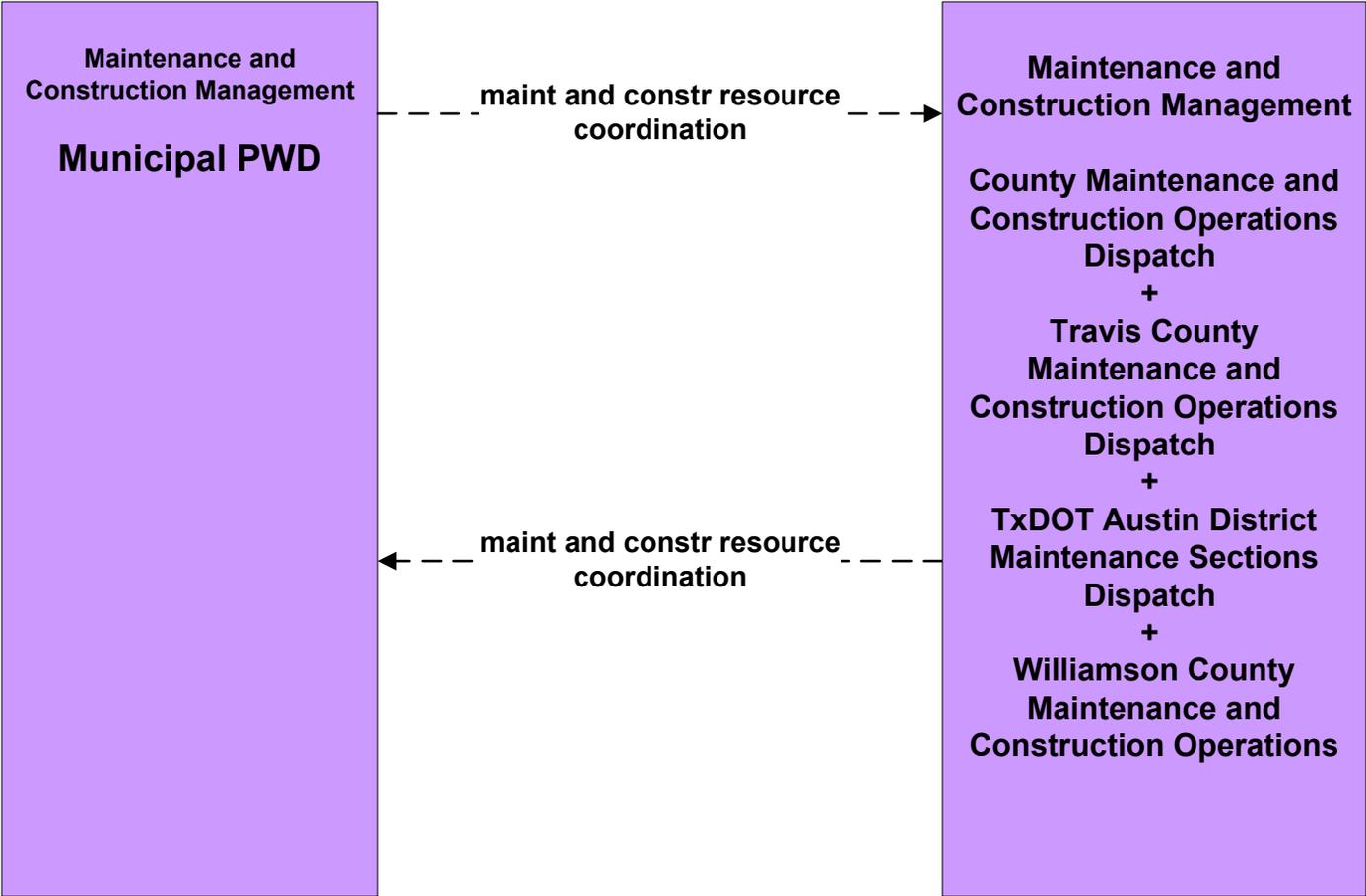
ATMS08 - Incident Management
City of Austin Maintenance System – (MCM to Other MCM)



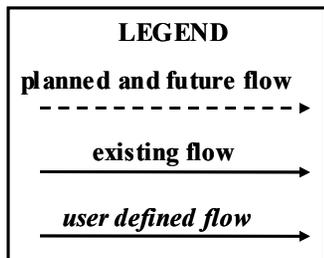
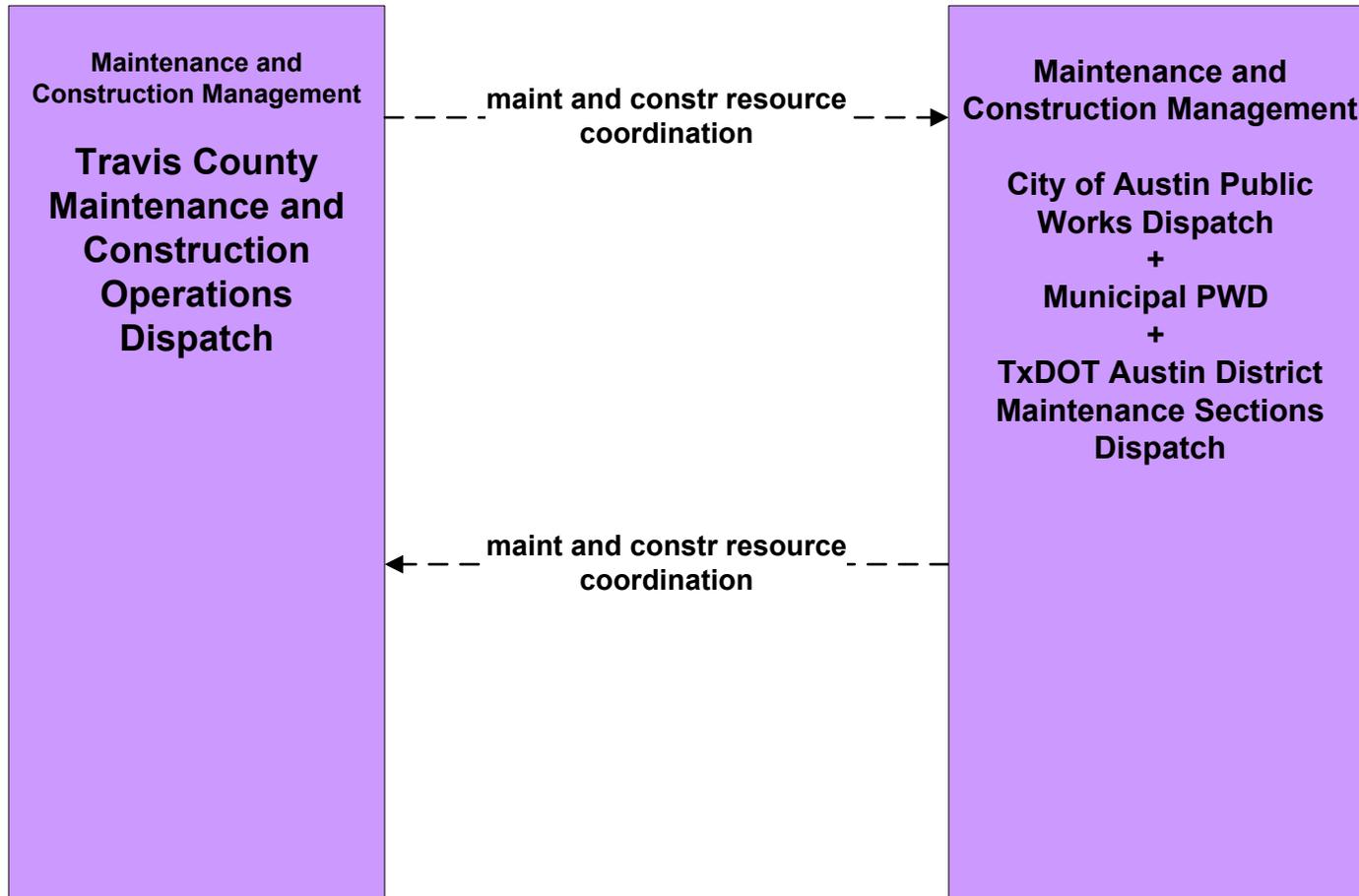
ATMS08 - Incident Management
City of Round Rock Maintenance System – (MCM to Other MCM)



**ATMS08 - Incident Management
Municipal PWD – (MCM to Other MCM)**

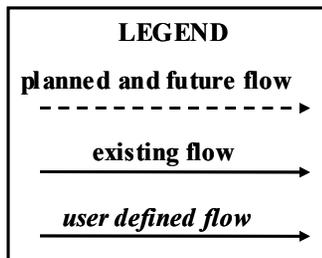
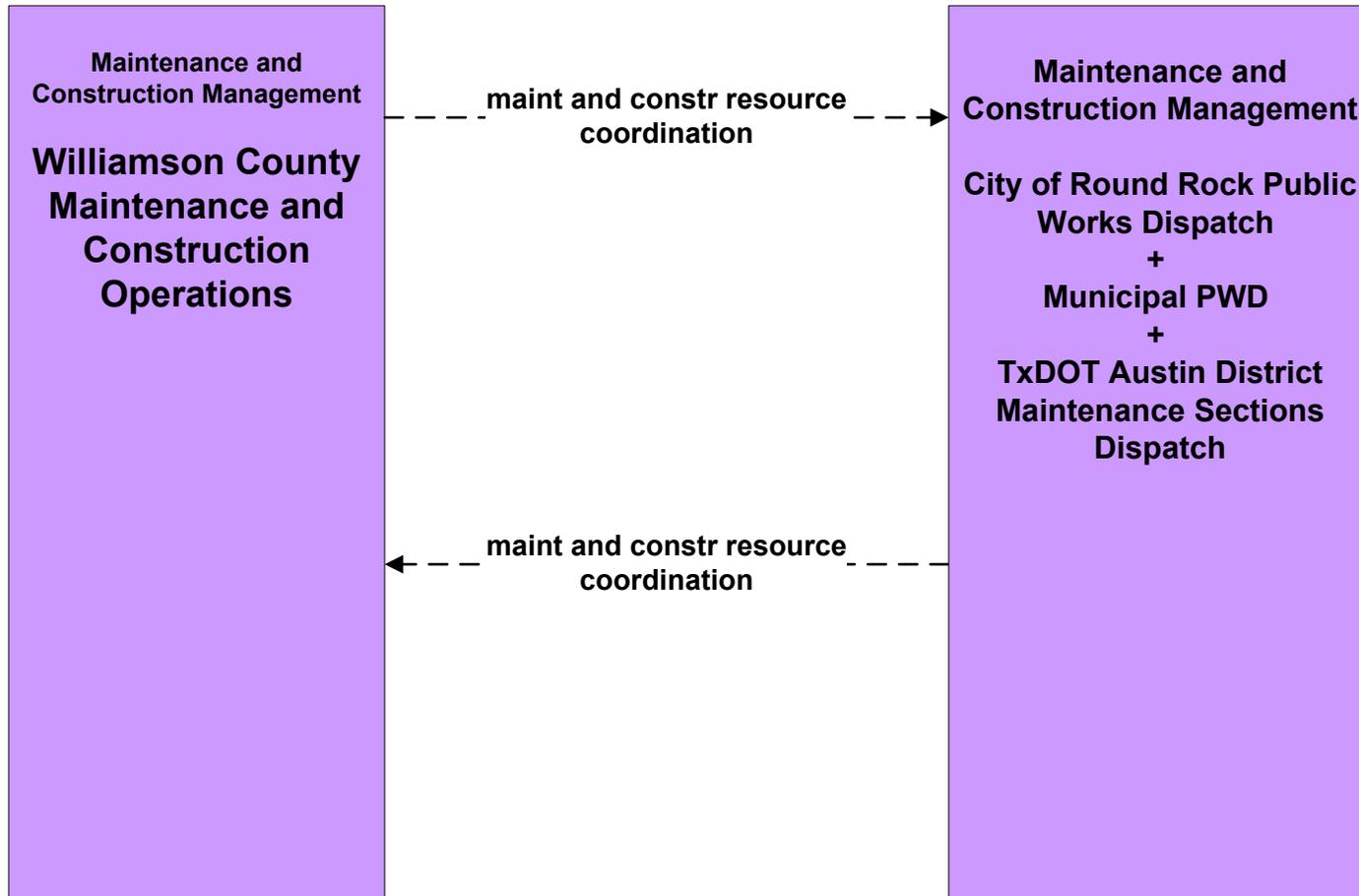


ATMS08 - Incident Management
Travis County Maintenance and Constructions Operations – (MCM to Other MCM)

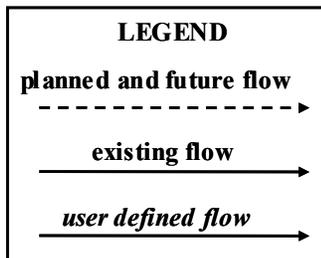
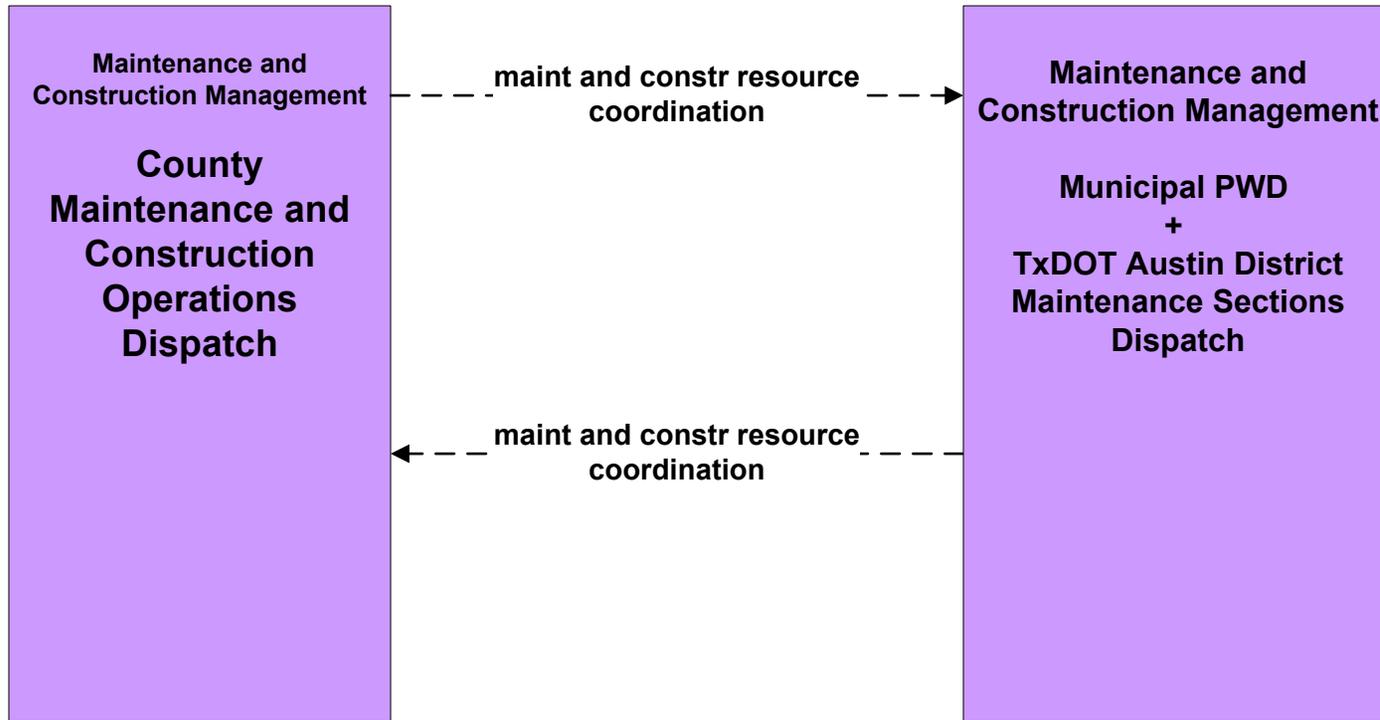


ATMS08 - Incident Management

Williamson County Maintenance and Construction Operations – (MCM to Other MCM)



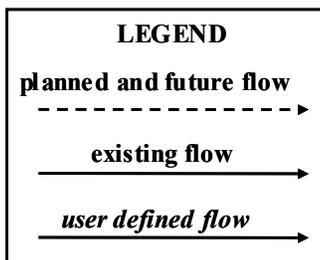
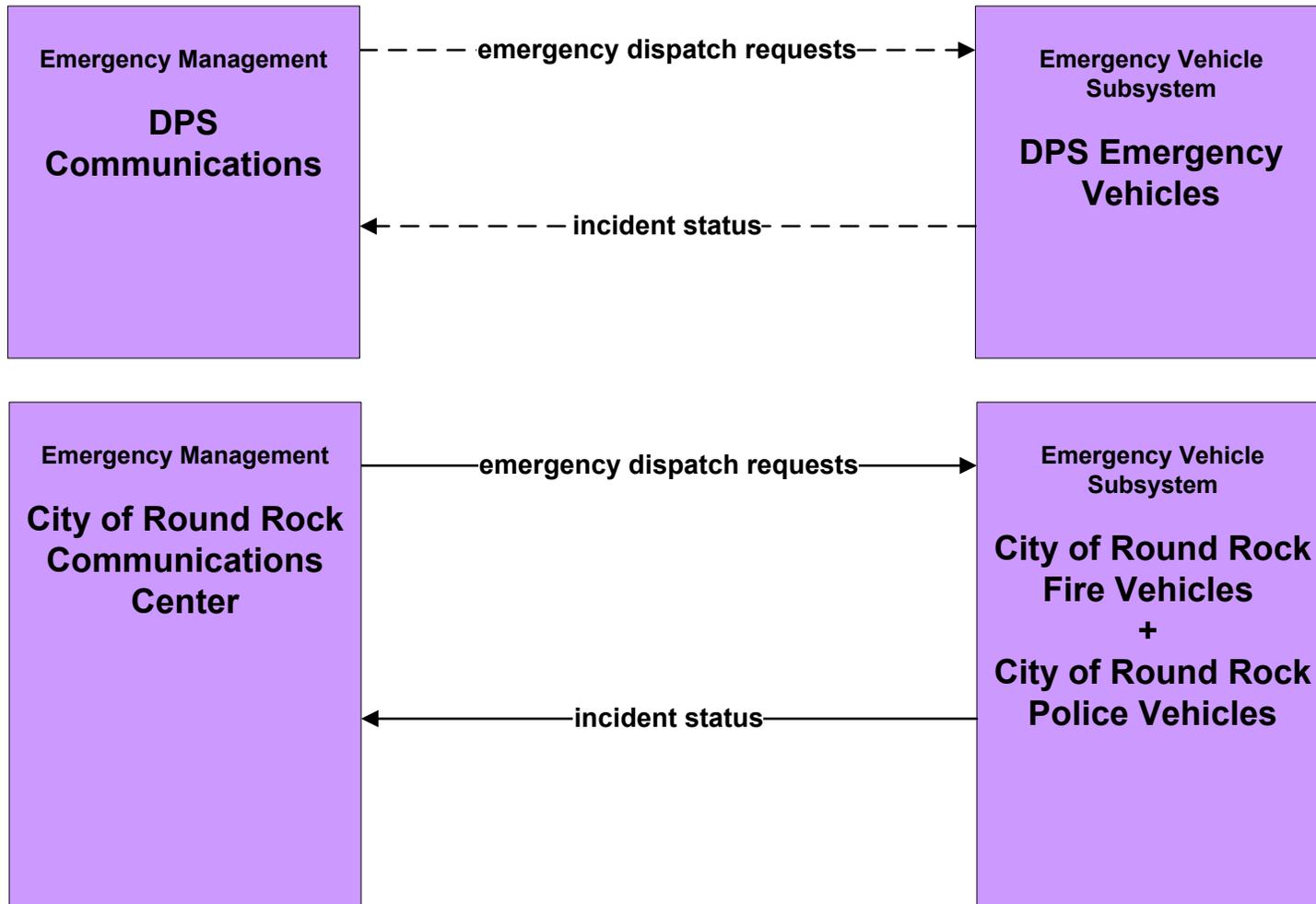
ATMS08 - Incident Management
County Maintenance and Construction Operations – (MCM to Other MCM)



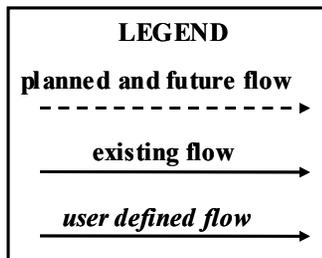
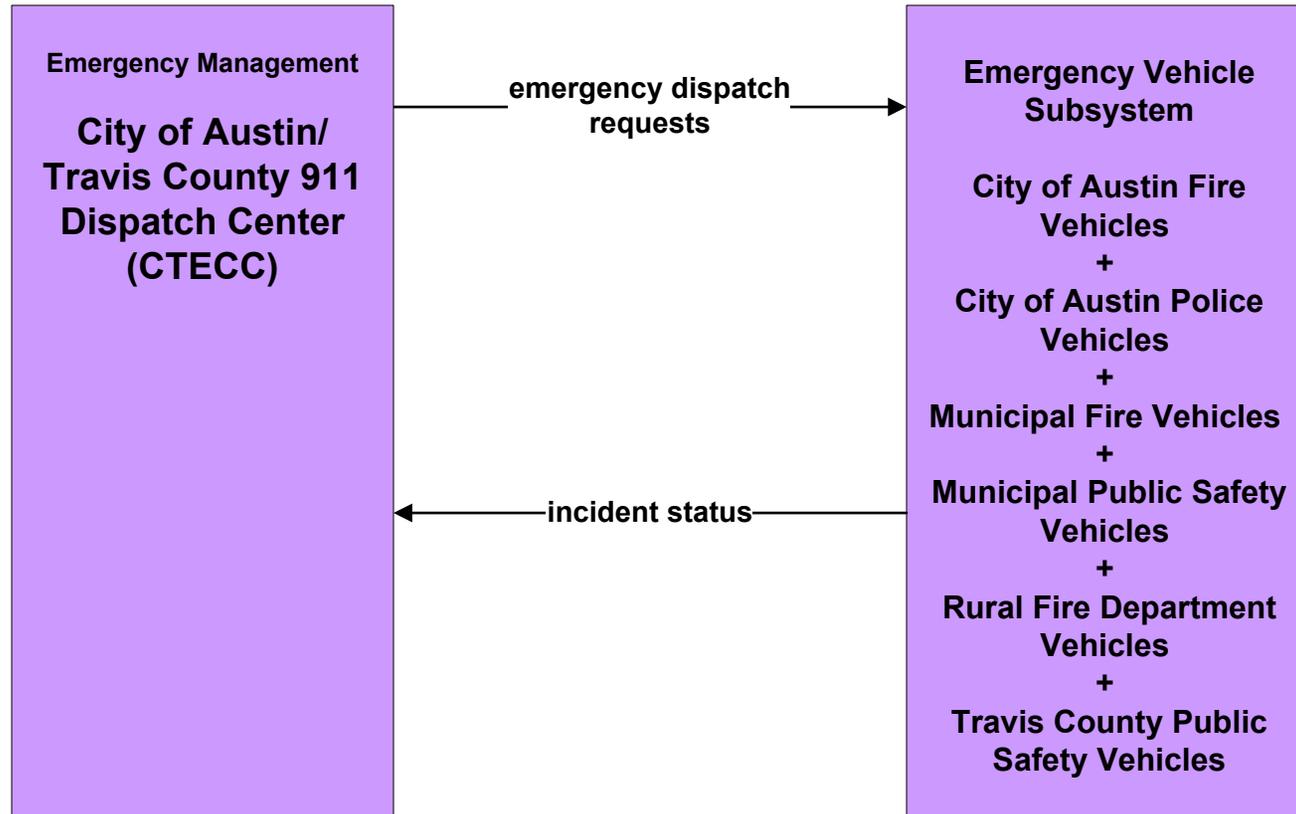
ATMS08 - Incident Management

Emergency Management \leftrightarrow *Emergency Vehicles*

ATMS08 - Incident Management (EM to EVS)

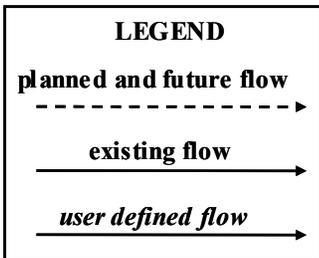
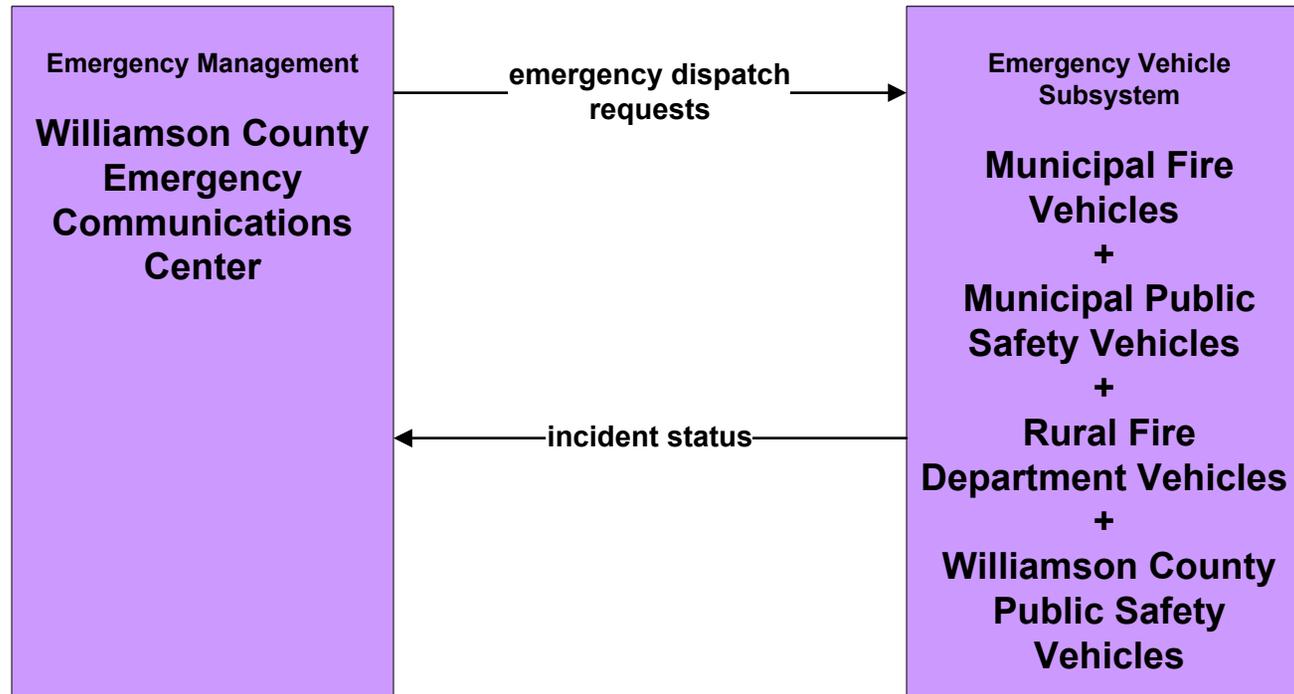


**ATMS08 - Incident Management
(EM to EVS)**



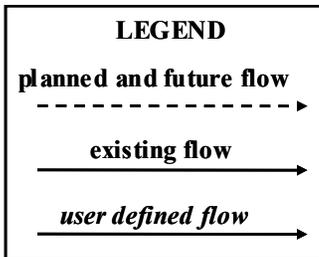
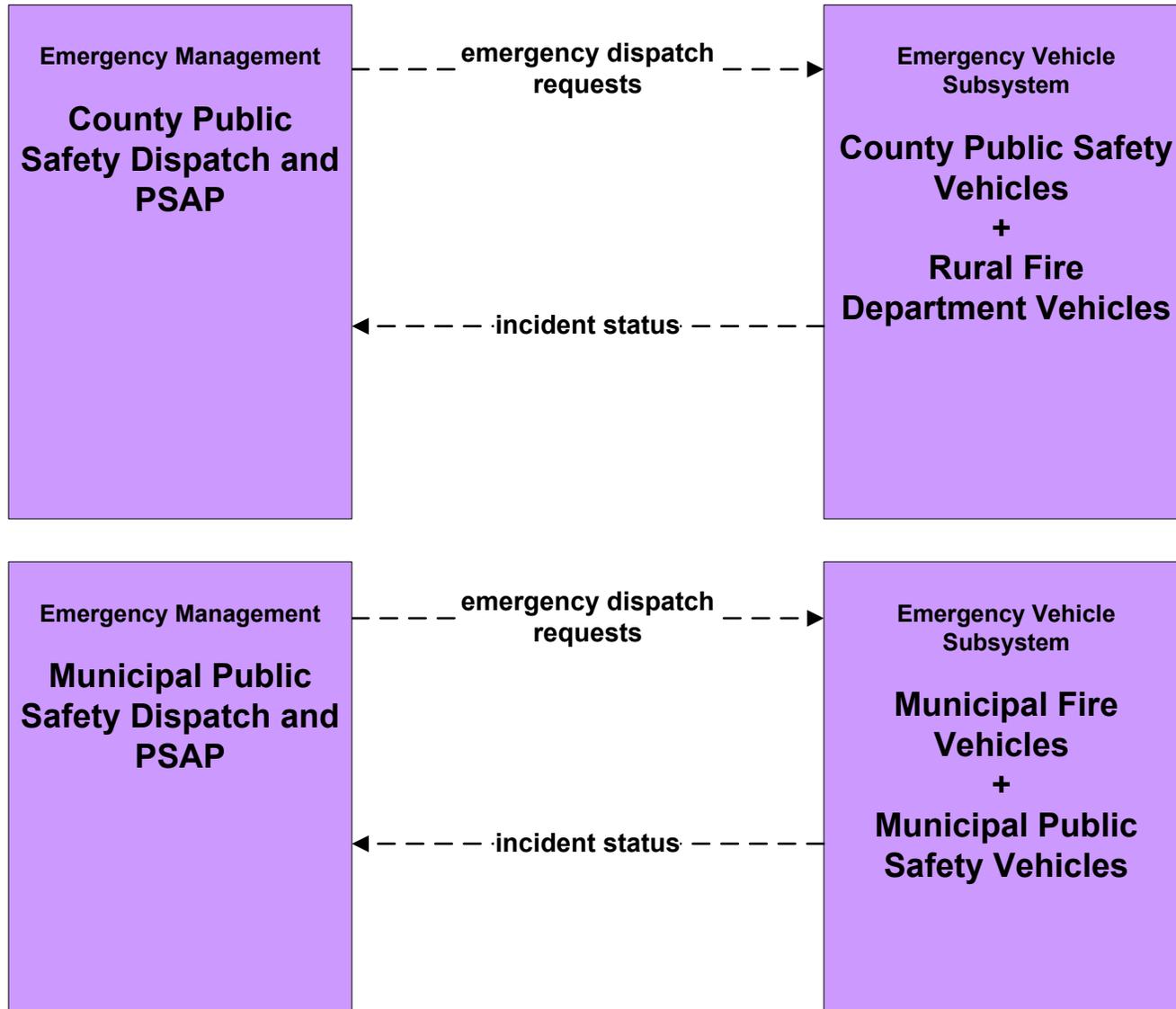
Travis County public safety vehicles include Sheriff and EMS vehicles.

ATMS08 - Incident Management (EM to EVS)

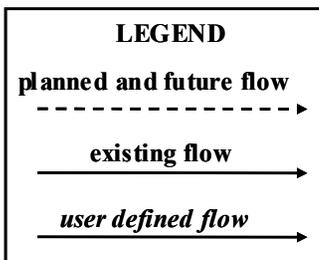
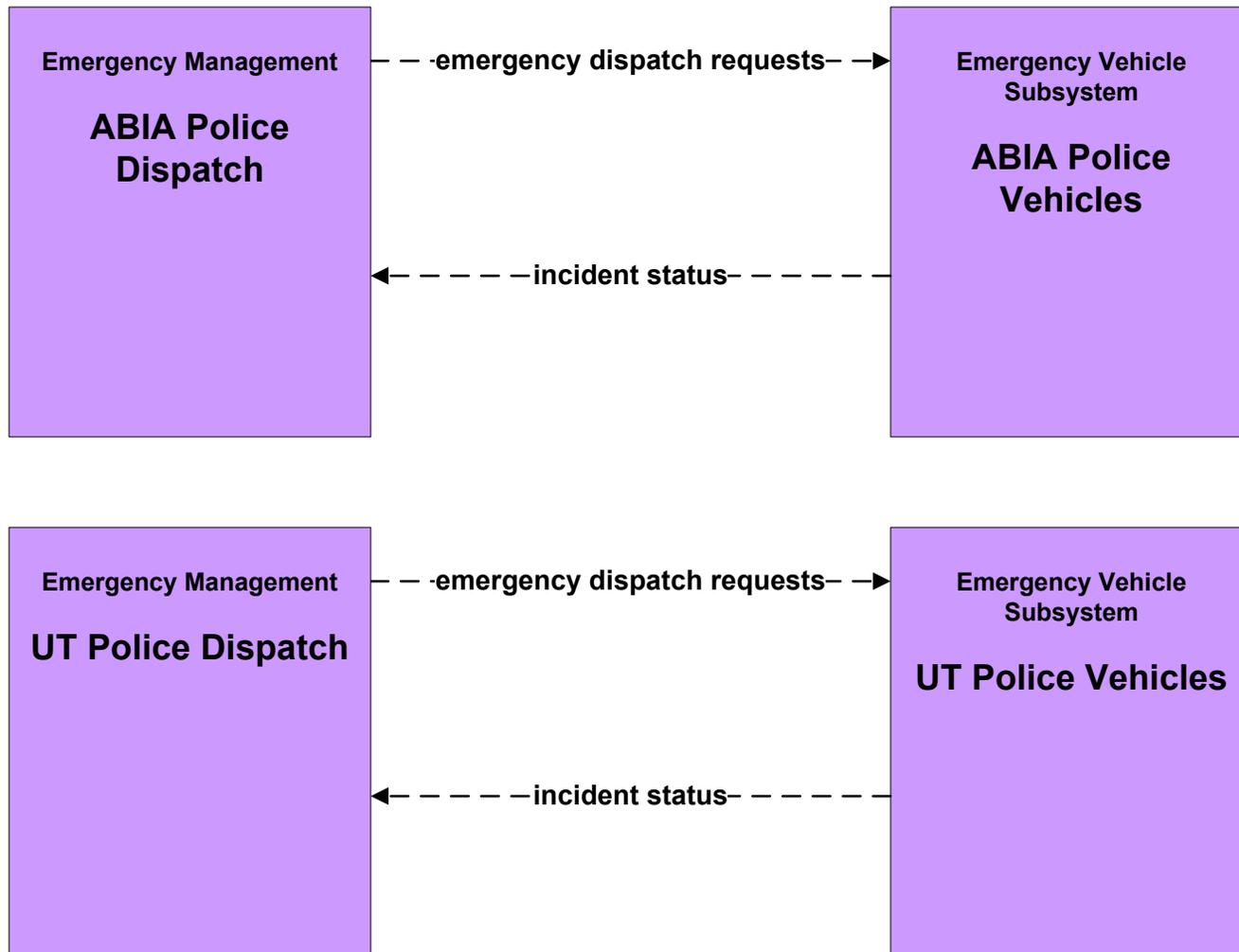


Williamson County public safety vehicles include Sheriff and EMS vehicles.

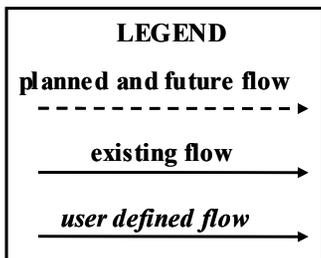
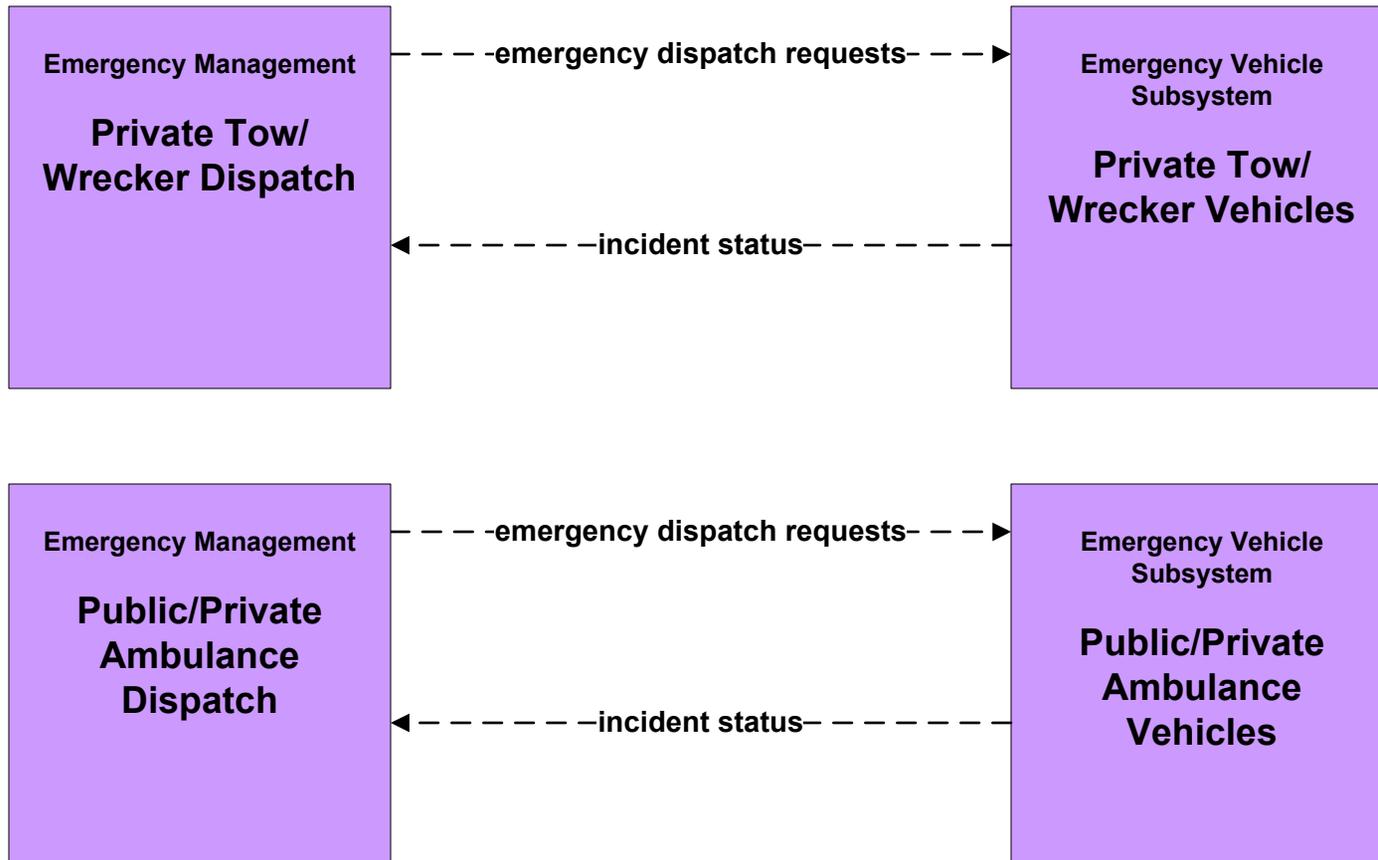
ATMS08 - Incident Management (EM to EVS)



ATMS08 - Incident Management (EM to EVS)



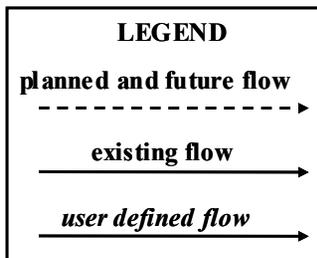
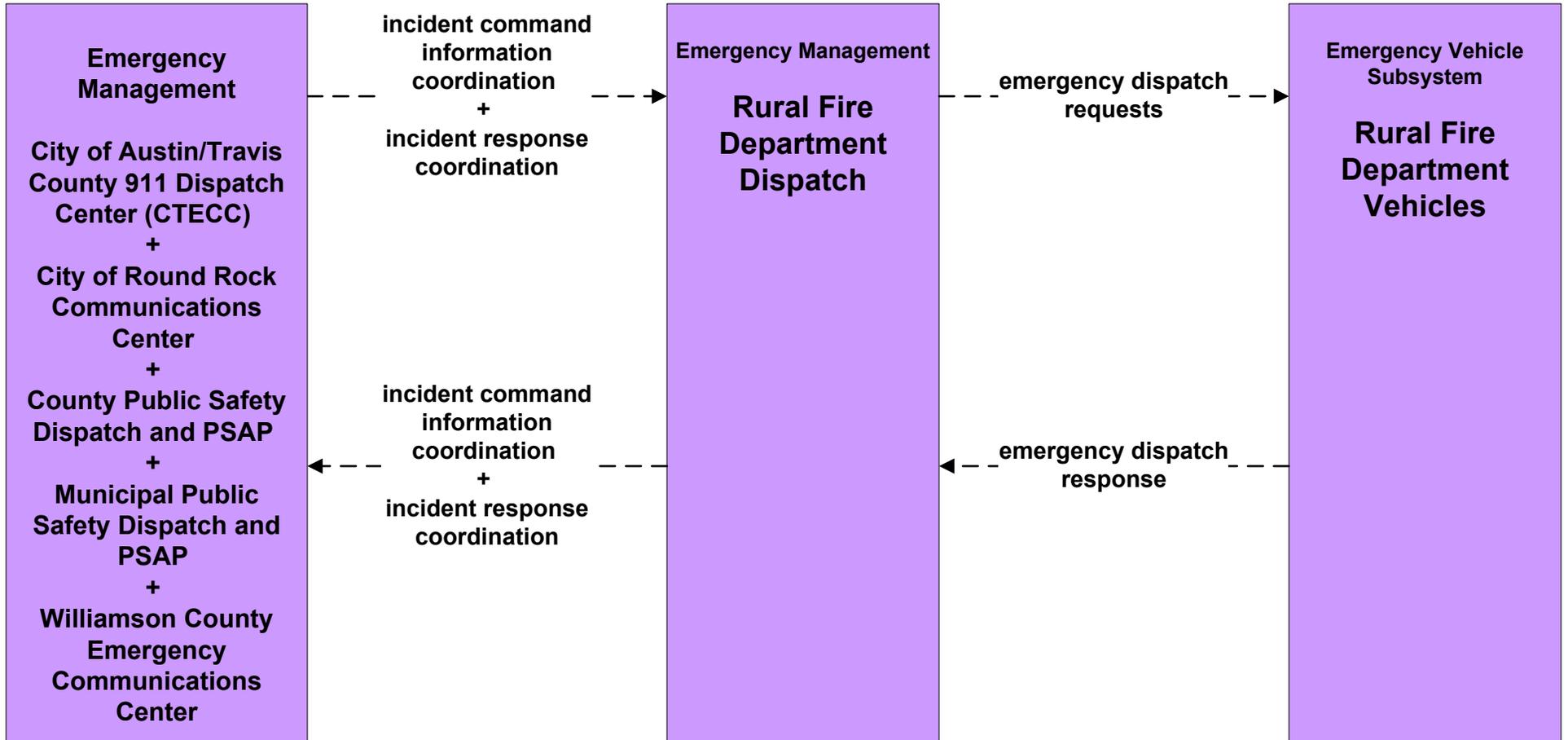
**ATMS08 - Incident Management
(EM to EVS)**



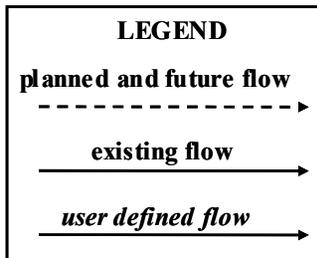
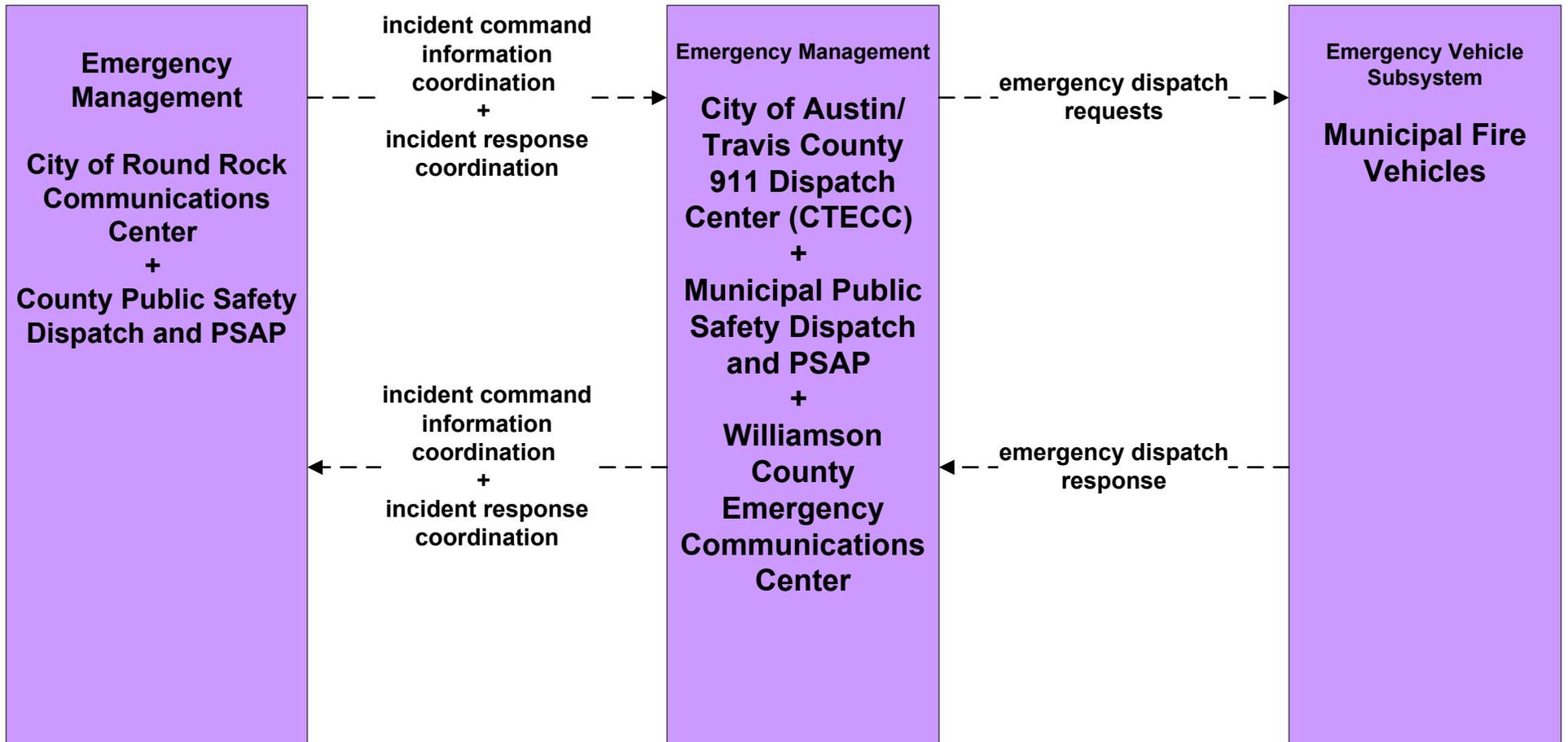
ATMS08 - Incident Management

Misc.

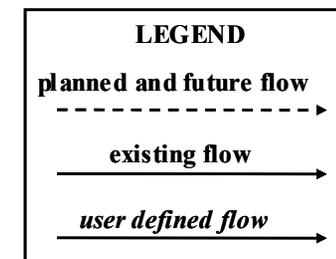
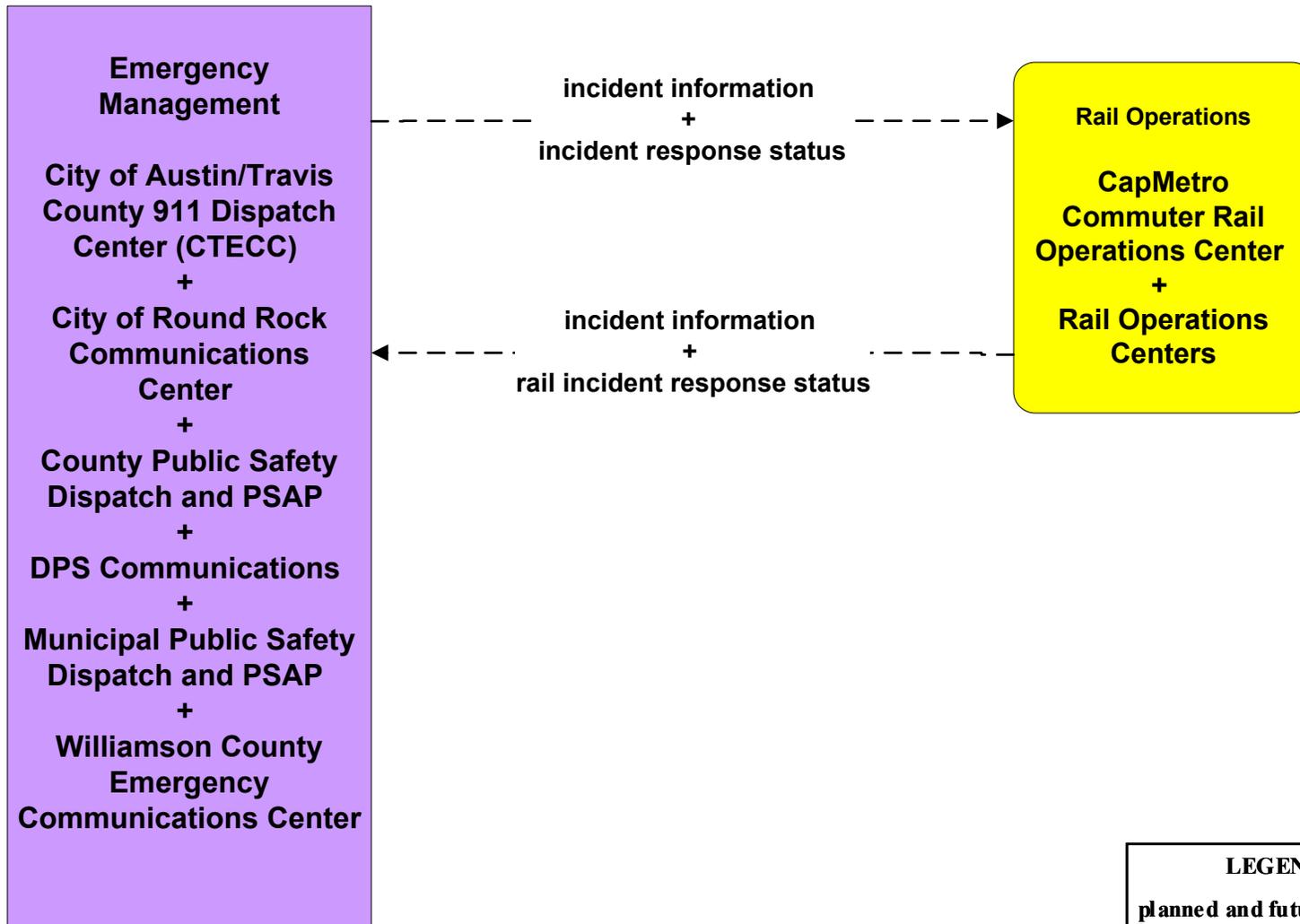
ATMS08 - Incident Management Rural Fire Departments



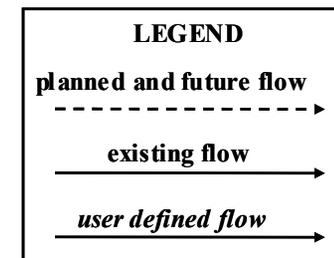
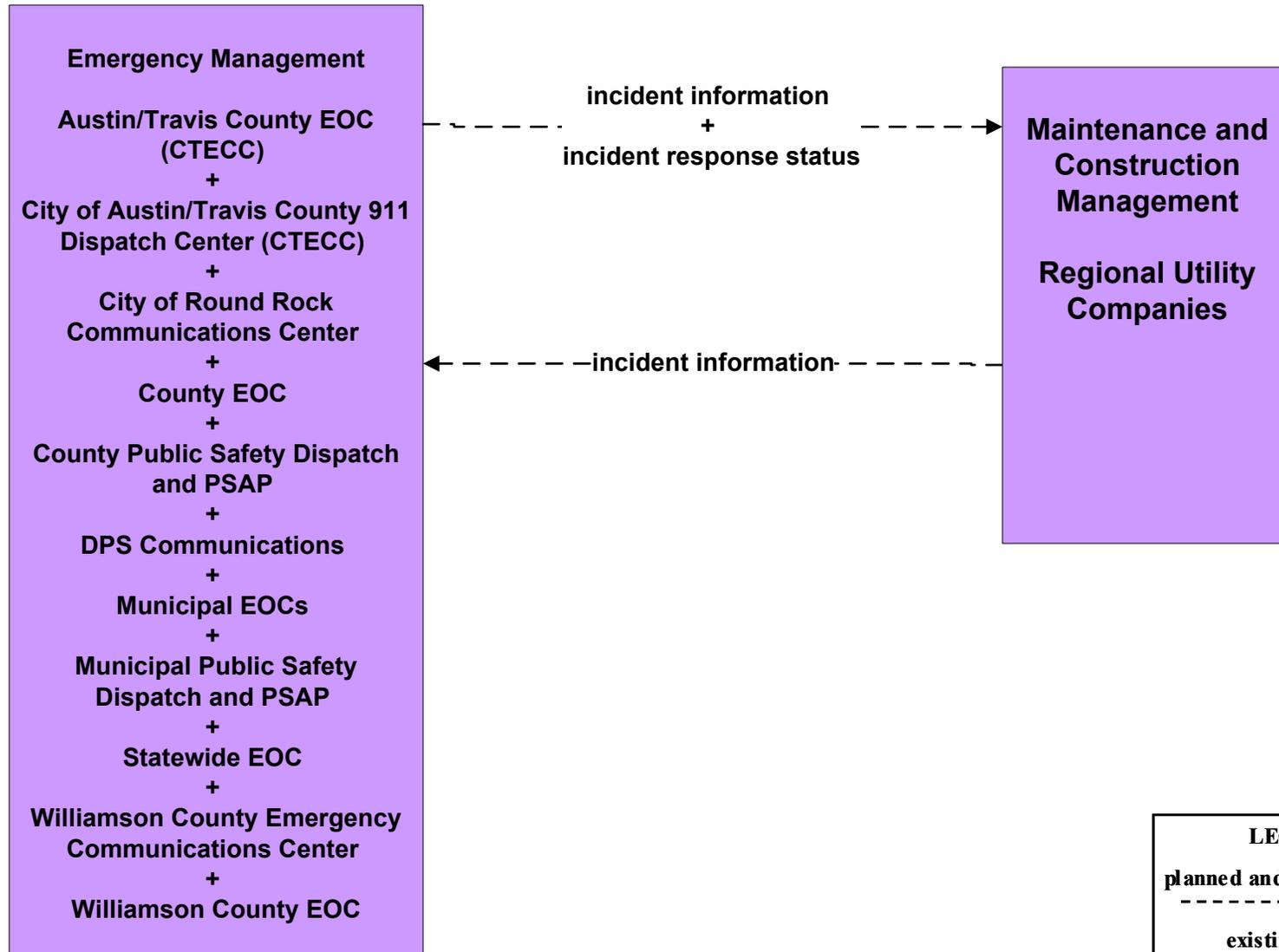
ATMS08 - Incident Management Municipal Fire Departments



ATMS08 - Incident Management Rail Operations Coordination

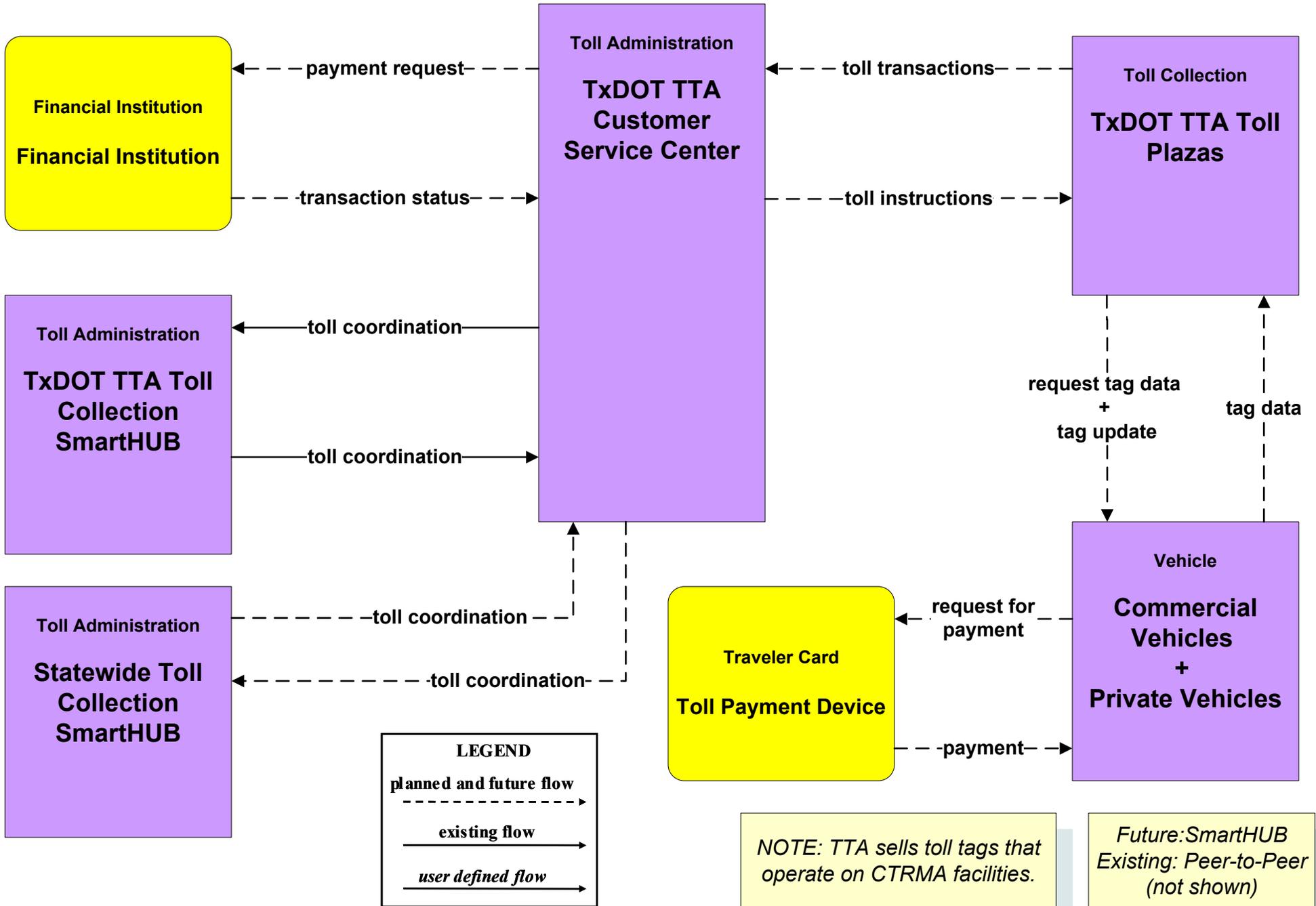


ATMS08 - Incident Management Regional Utility Companies

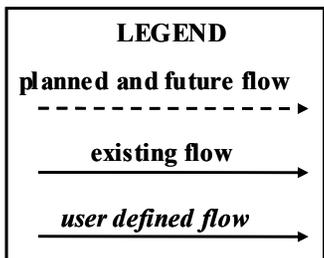
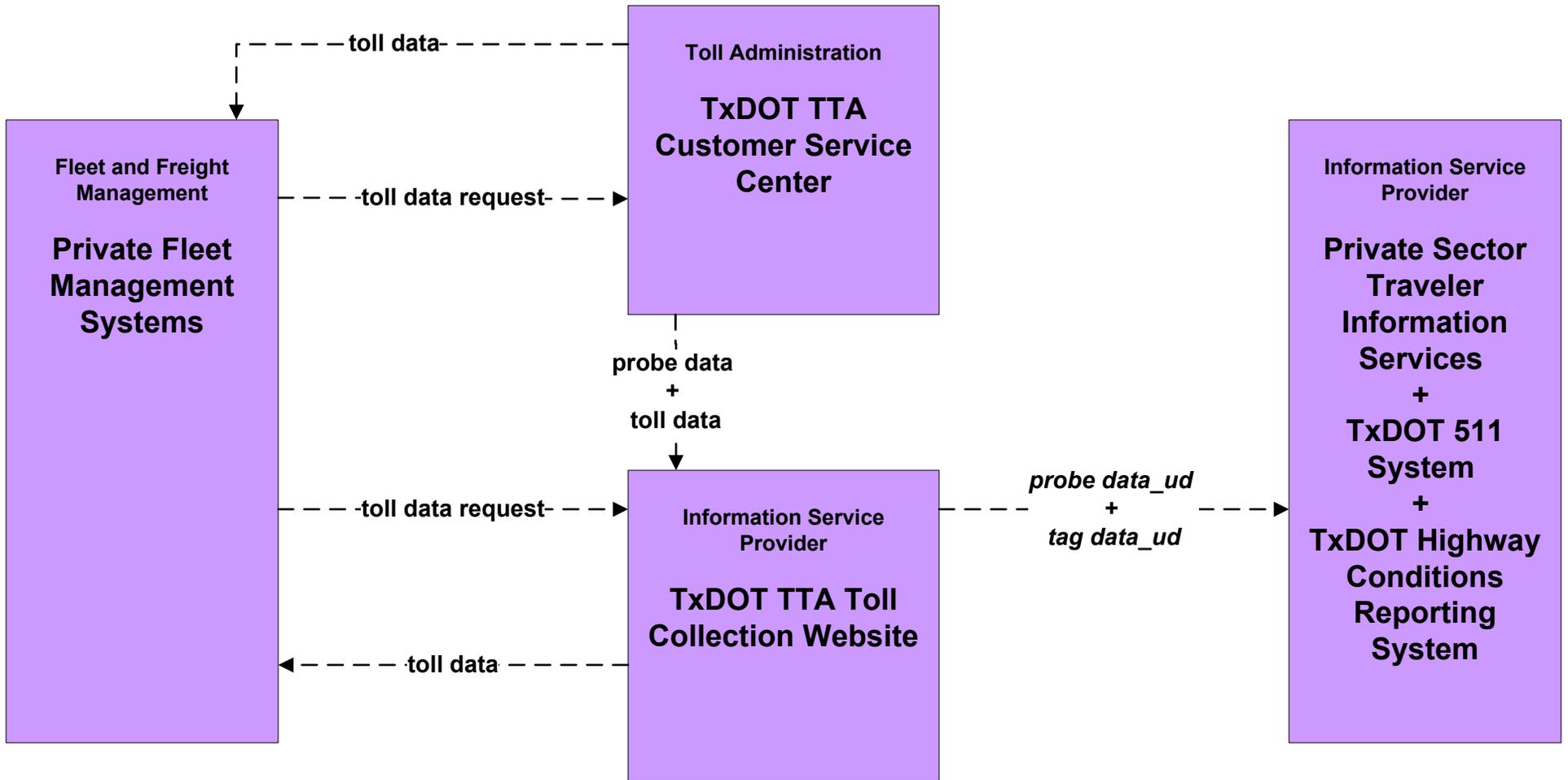


ATMS10 - Electronic Toll Collection

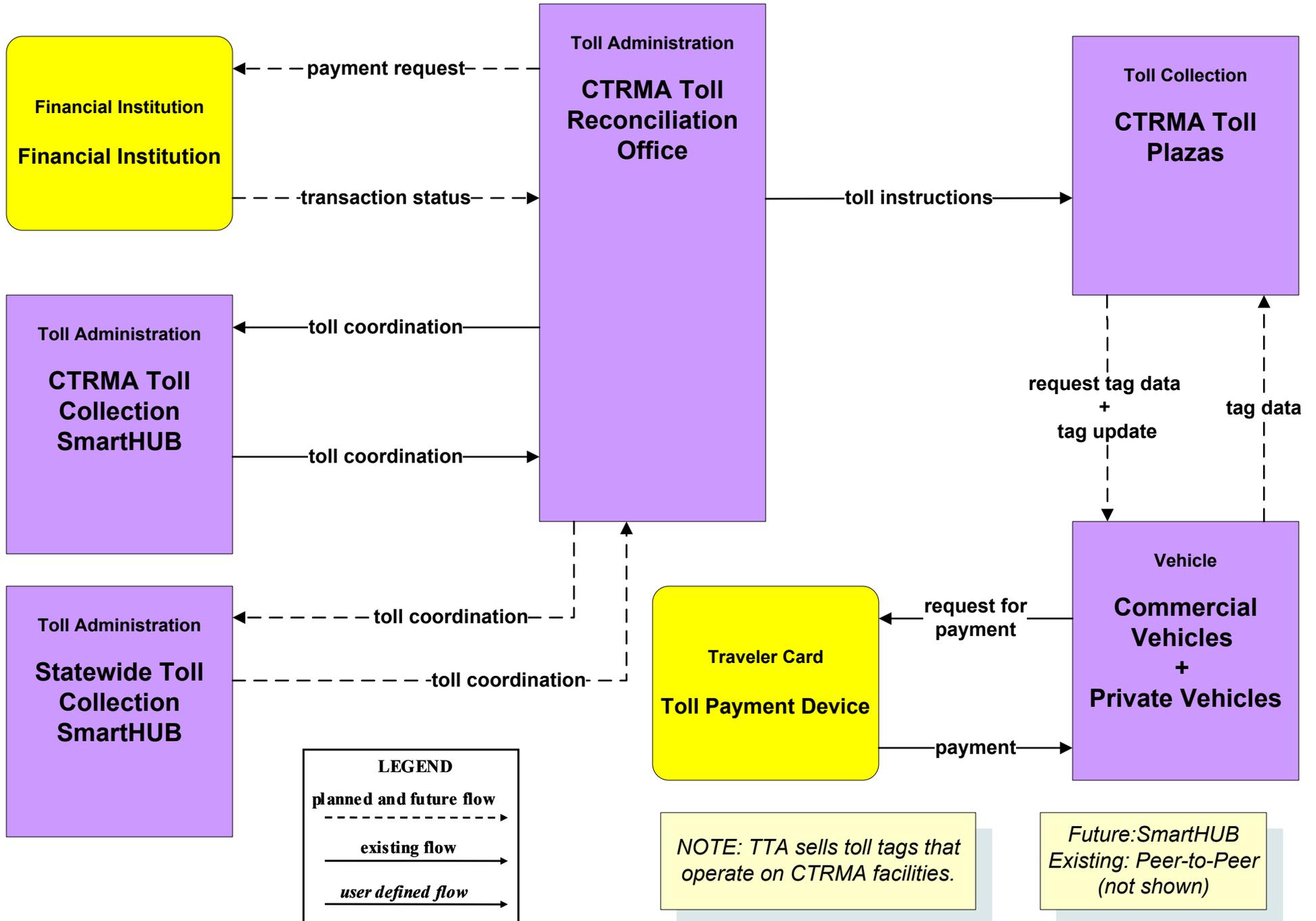
TTA – Toll Administration (1 of 2)



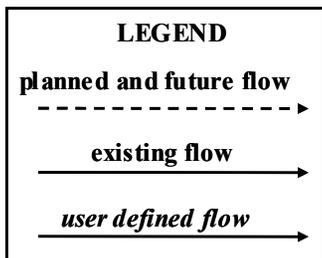
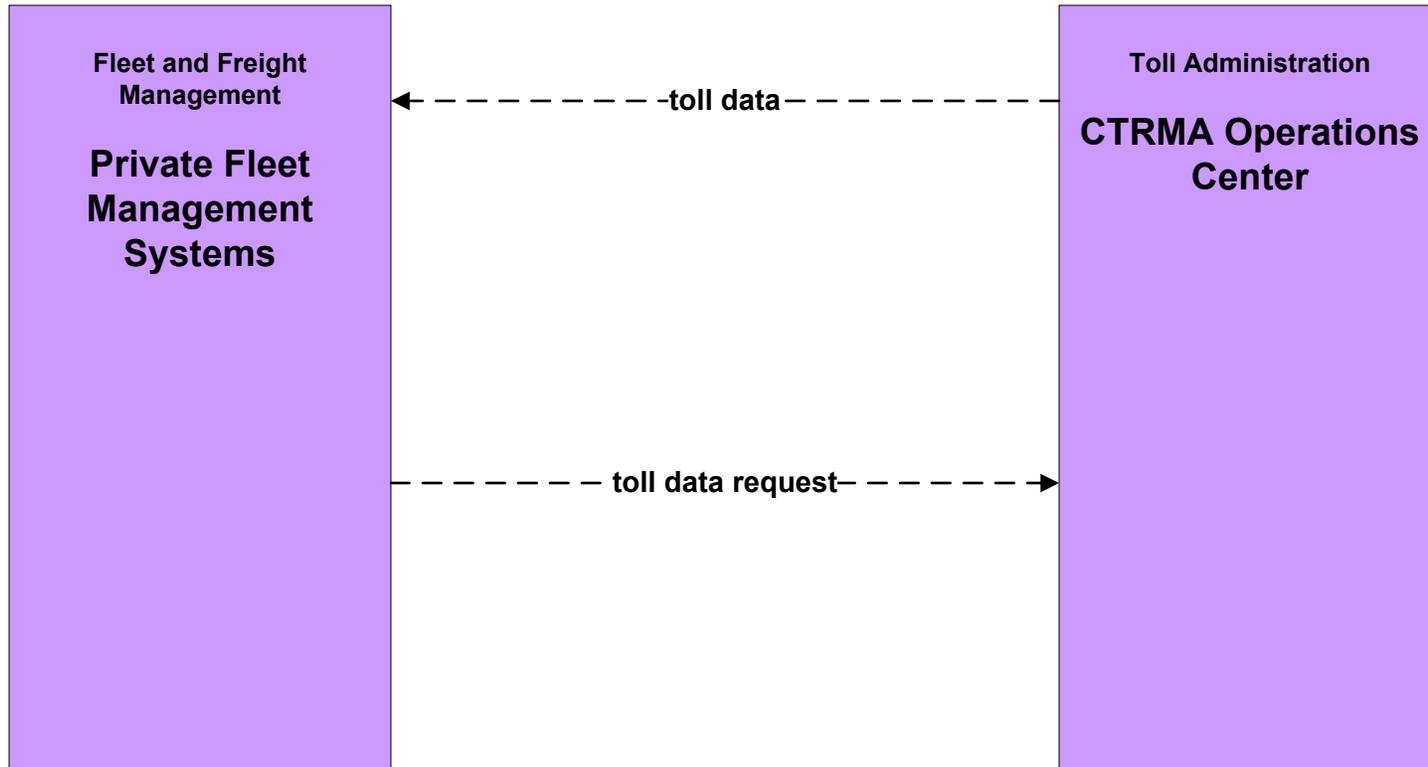
**ATMS10 - Electronic Toll Collection
TTA – Toll Administration (2 of 2)**



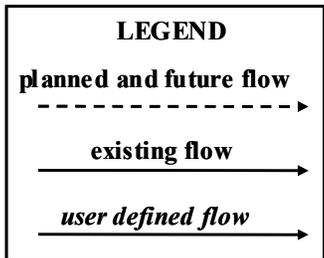
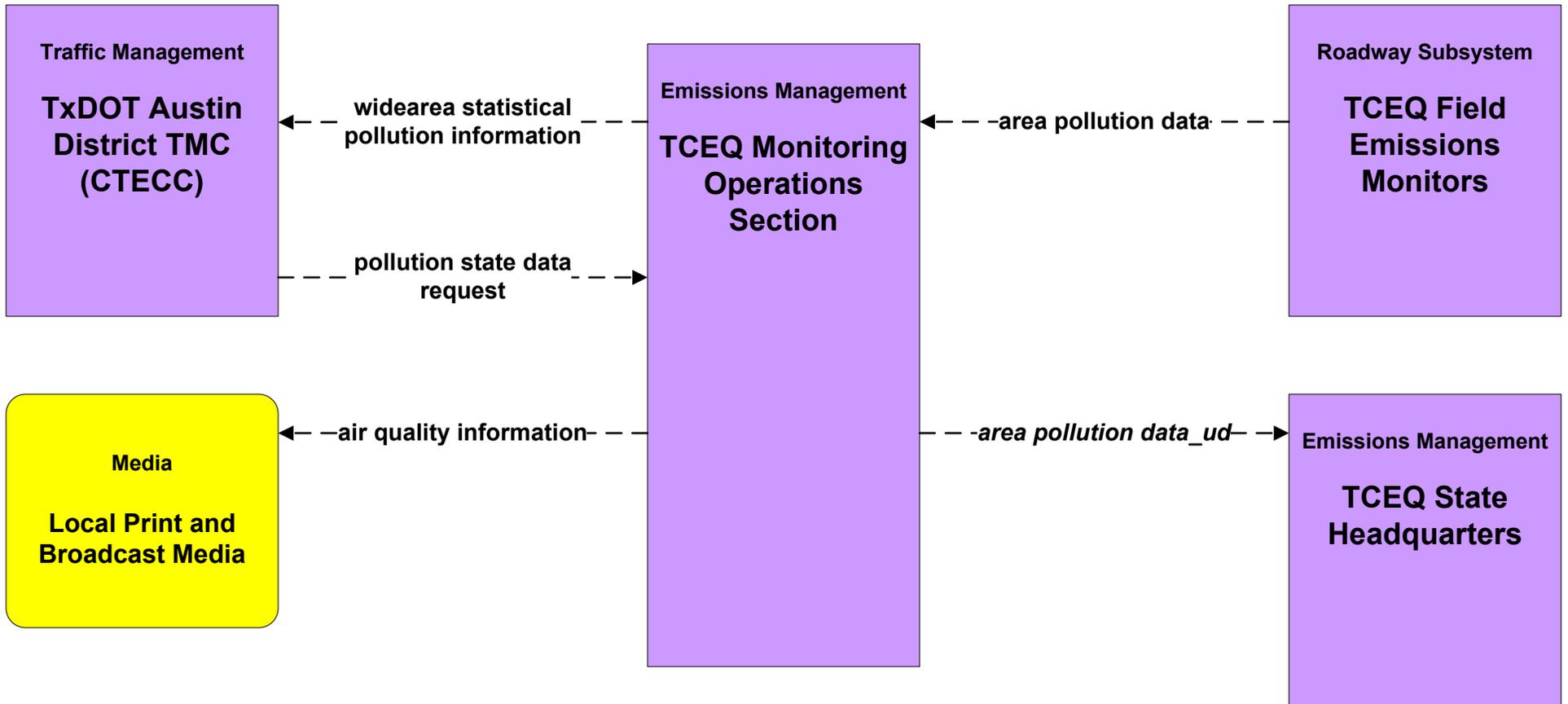
**ATMS10 - Electronic Toll Collection
CTRMA - Toll Administration (1 of 2)**



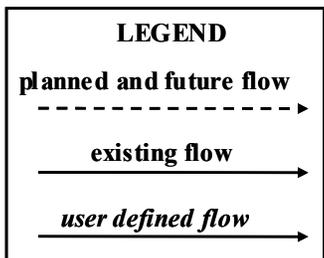
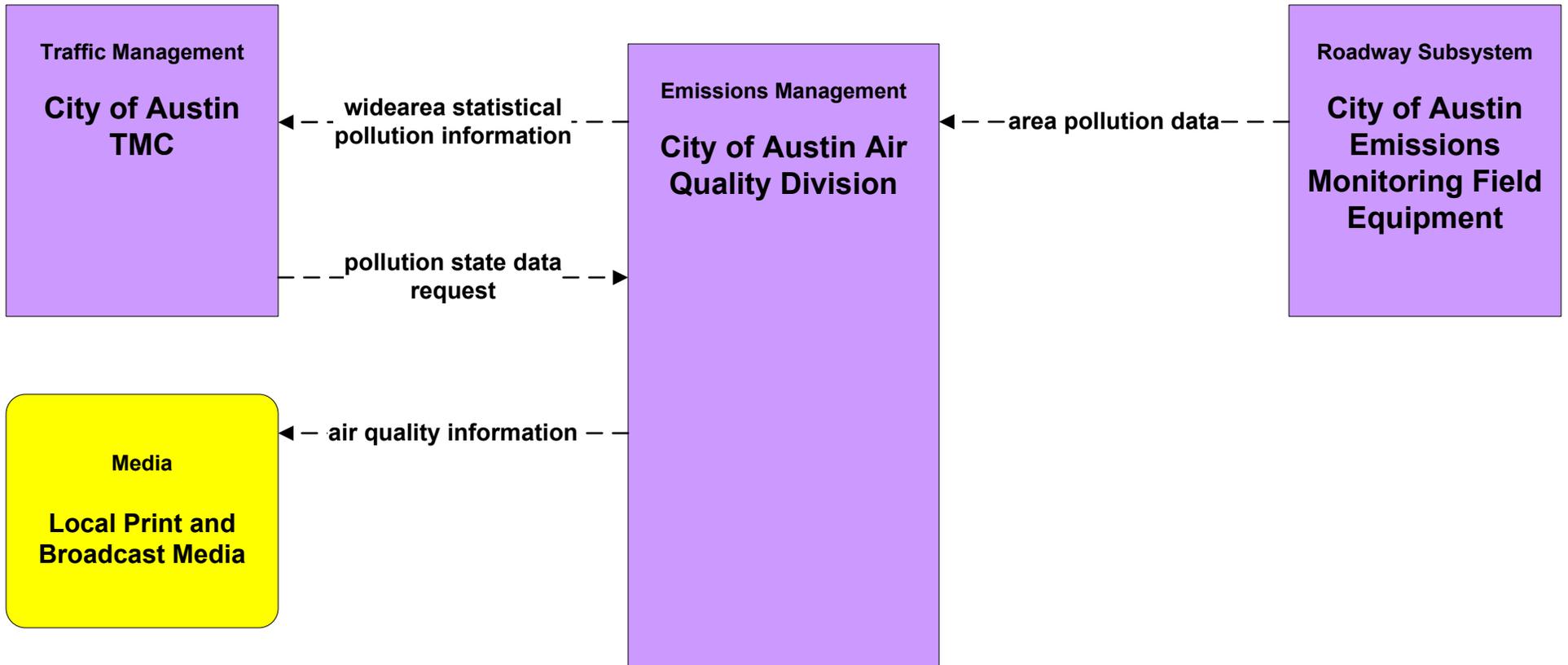
ATMS10 - Electronic Toll Collection
CTRMA – Toll Administration (2 of 2)



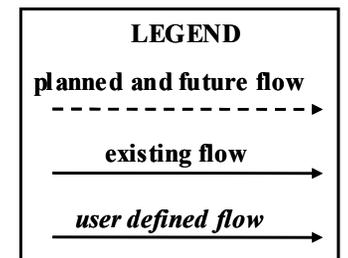
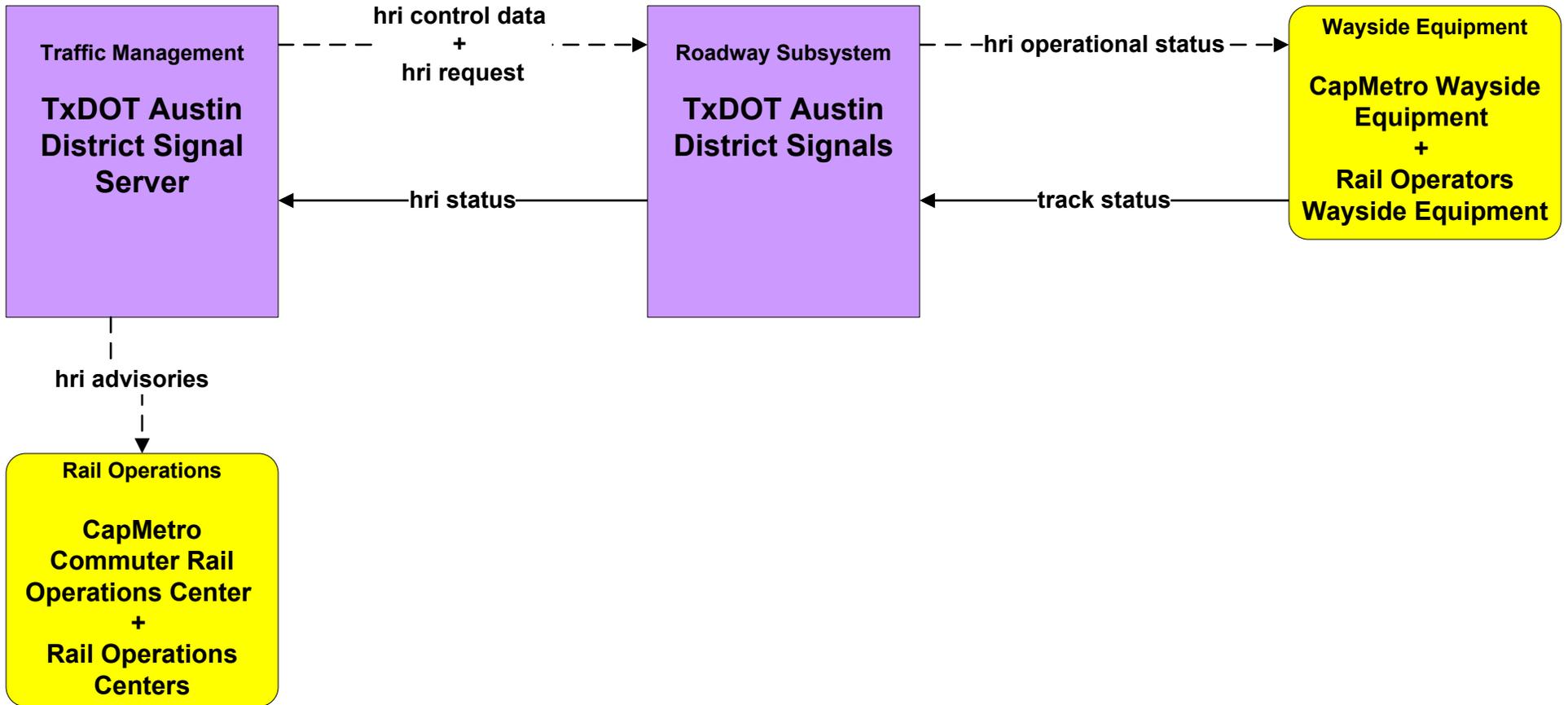
ATMS11 - Emissions Monitoring and Management TCEQ



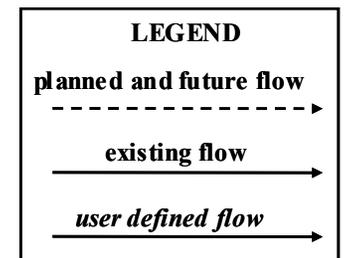
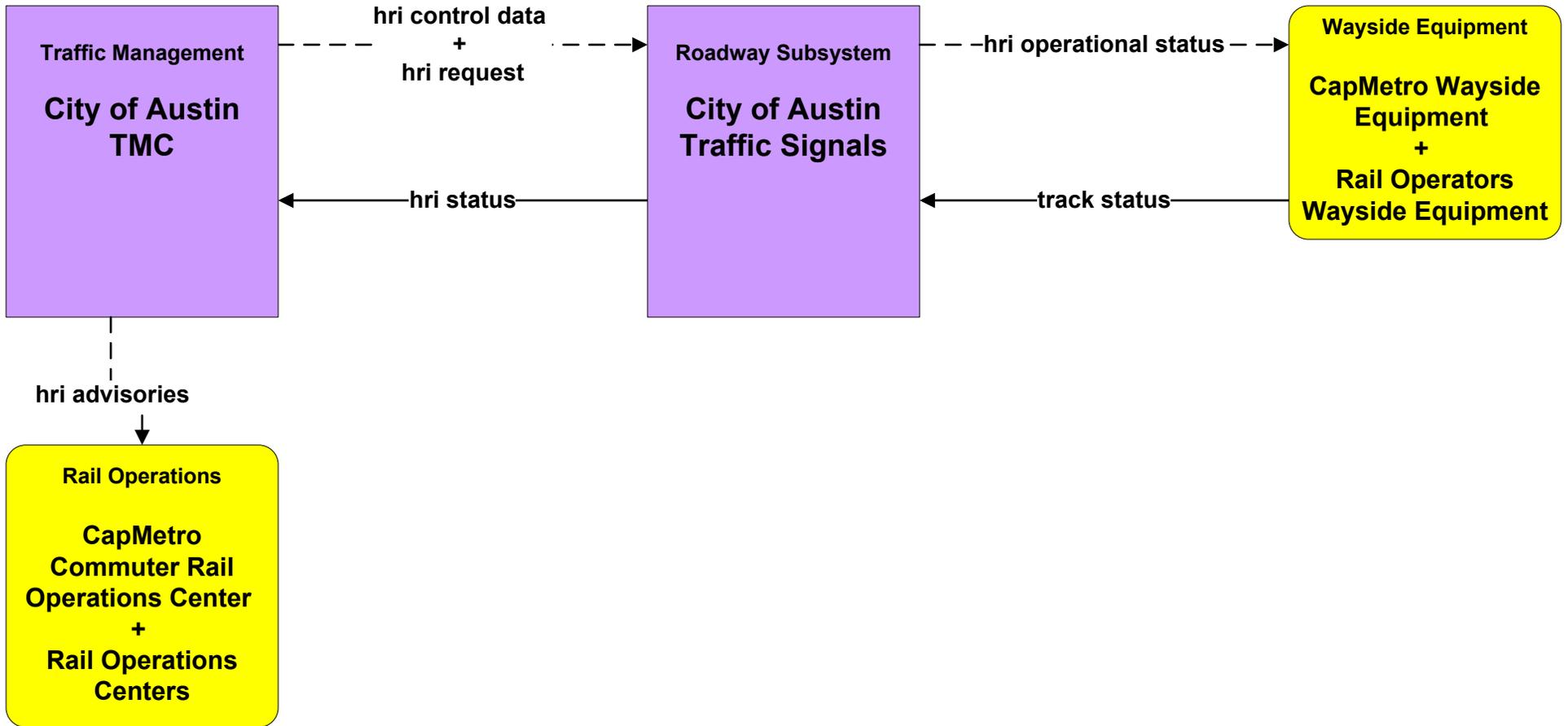
**ATMS11 - Emissions Monitoring and Management
City of Austin**



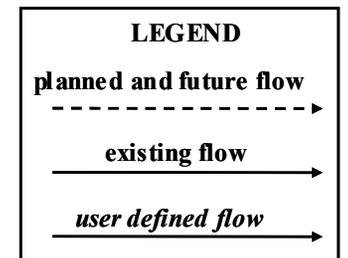
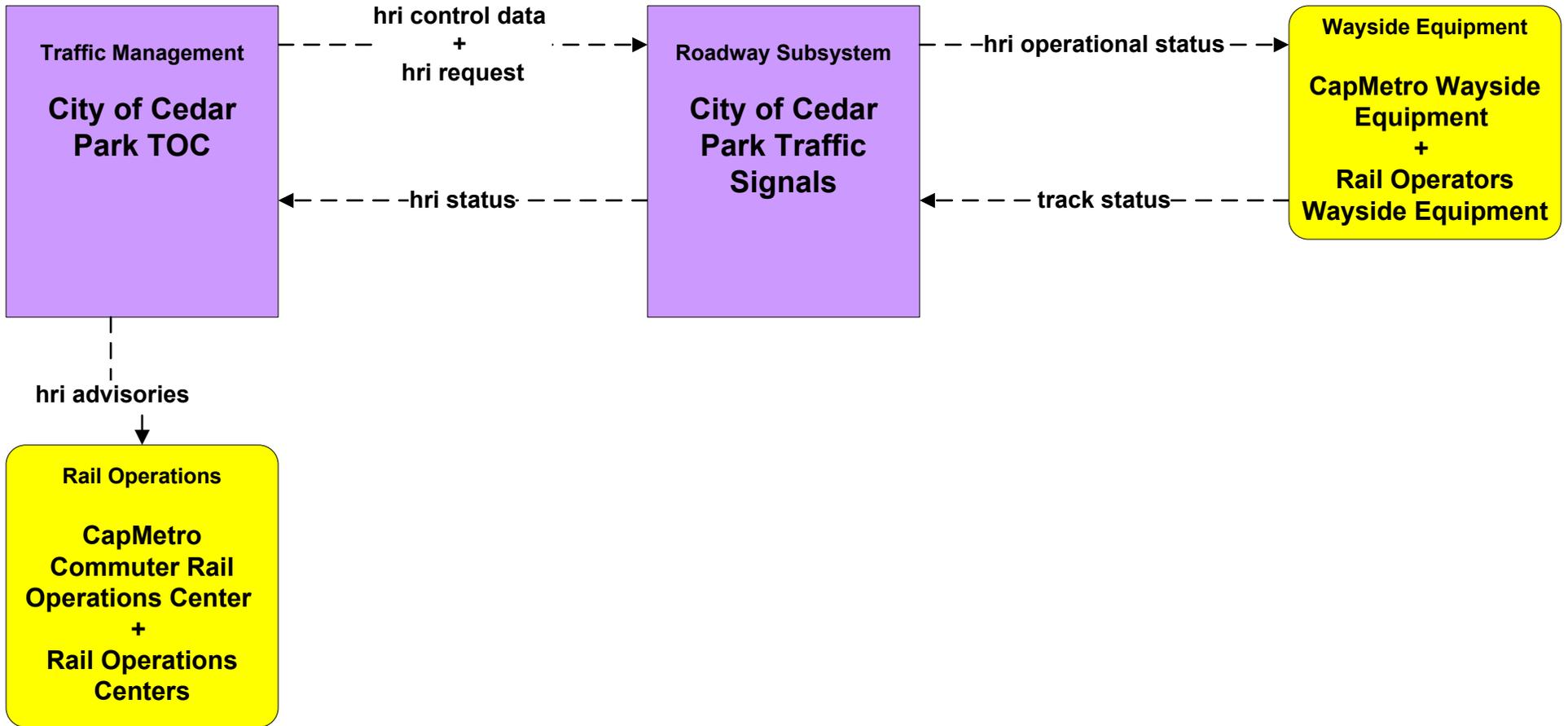
**ATMS13 - Standard Railroad Grade Crossing
TxDOT Austin District Traffic Management Center (CTECC)**



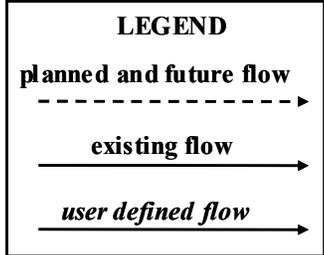
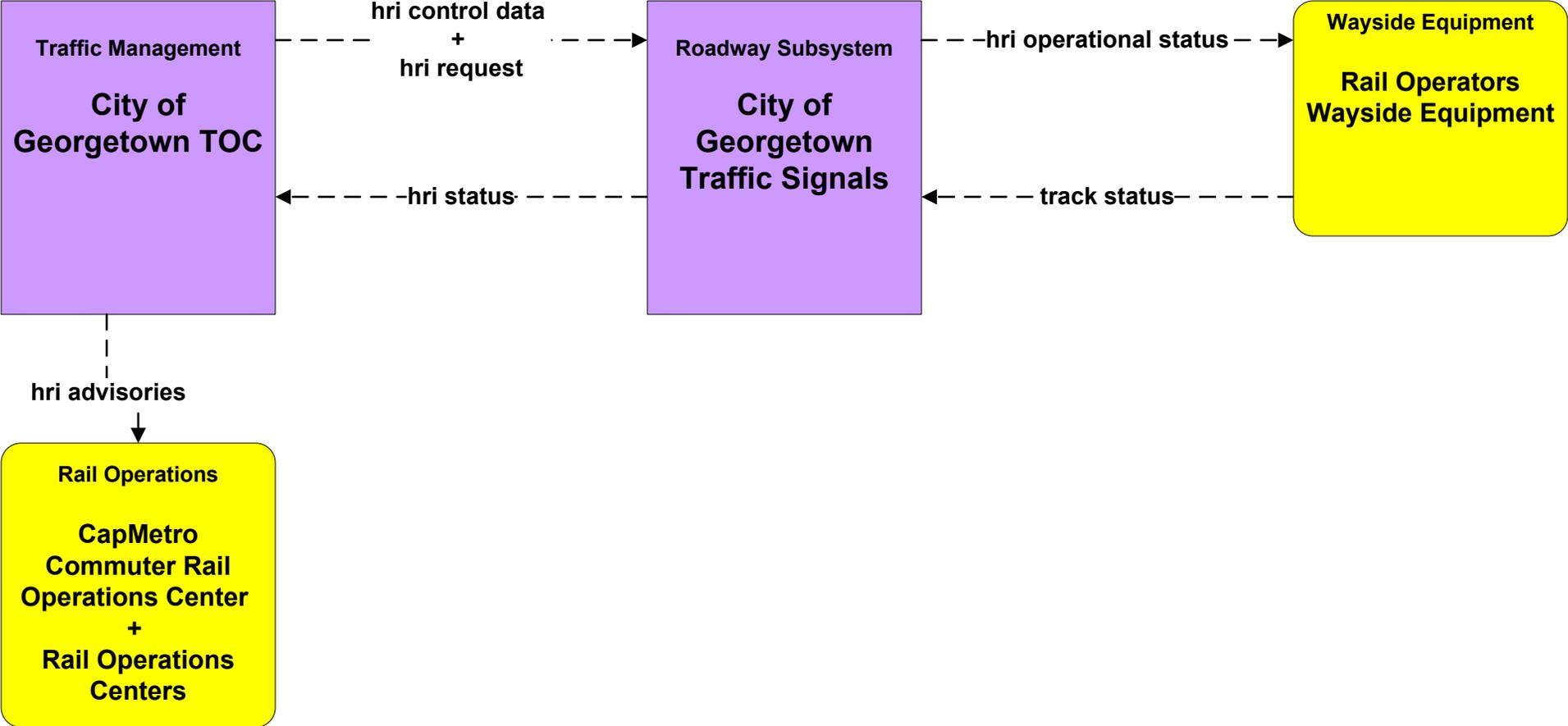
**ATMS13 - Standard Railroad Grade Crossing
City of Austin Traffic Management Center**



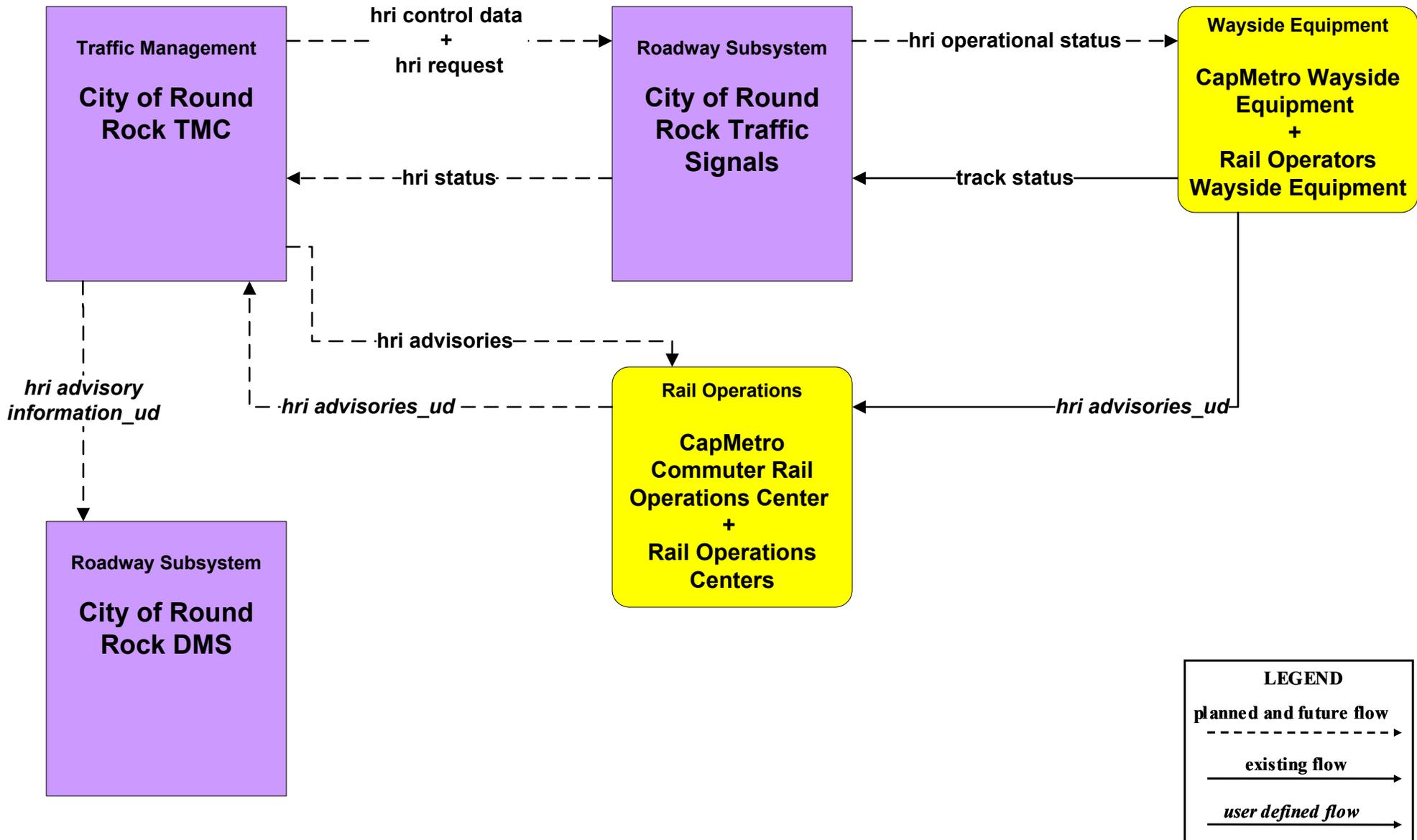
**ATMS13 - Standard Railroad Grade Crossing
City of Cedar Park Traffic Operations Center**



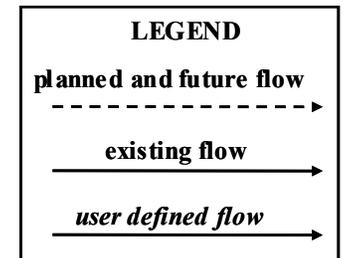
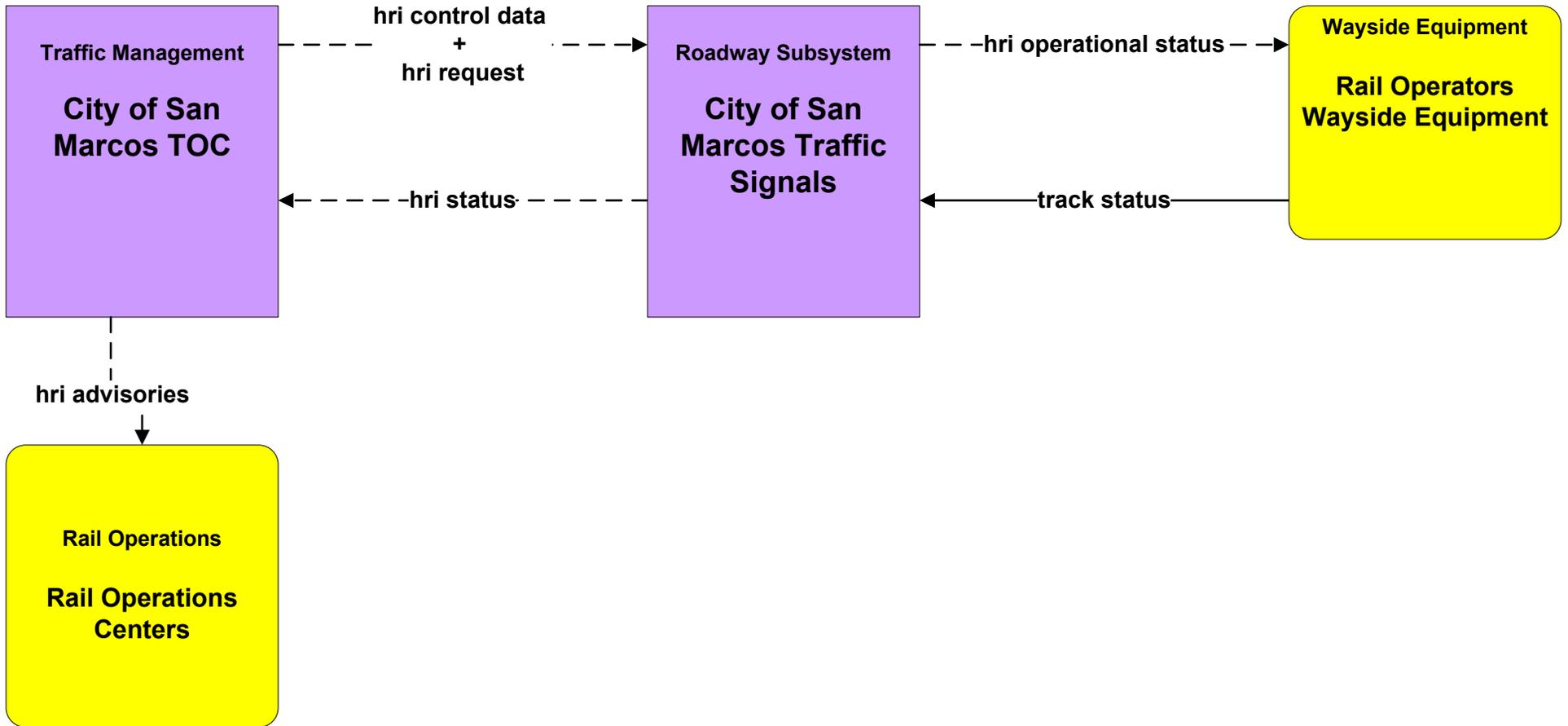
**ATMS13 - Standard Railroad Grade Crossing
City of Georgetown Traffic Operations Center**



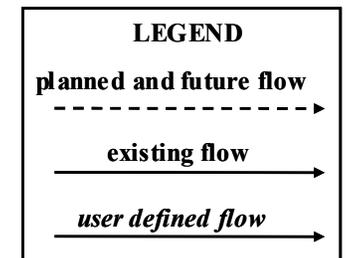
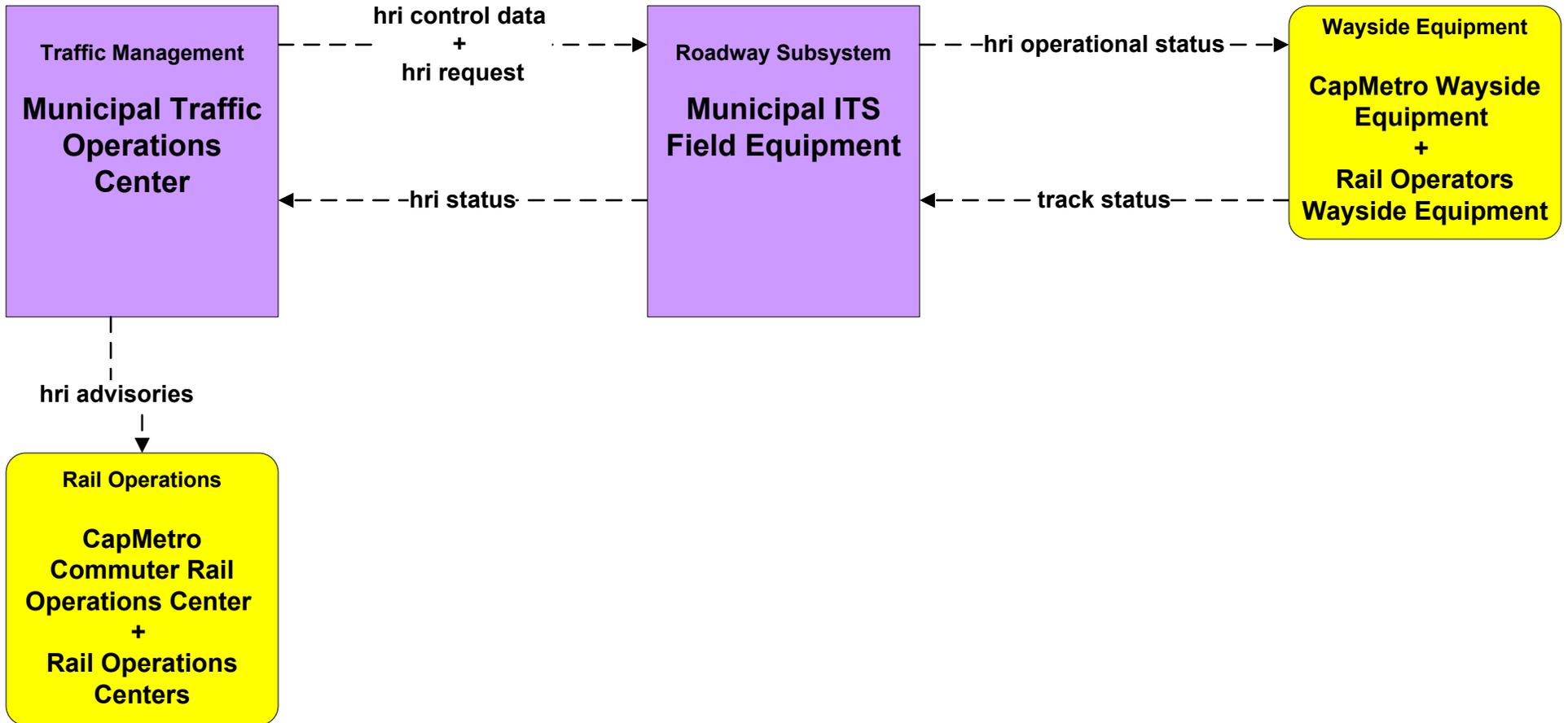
**ATMS13 - Standard Railroad Grade Crossing
City of Round Rock Traffic Management Center**



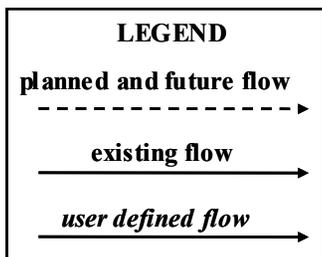
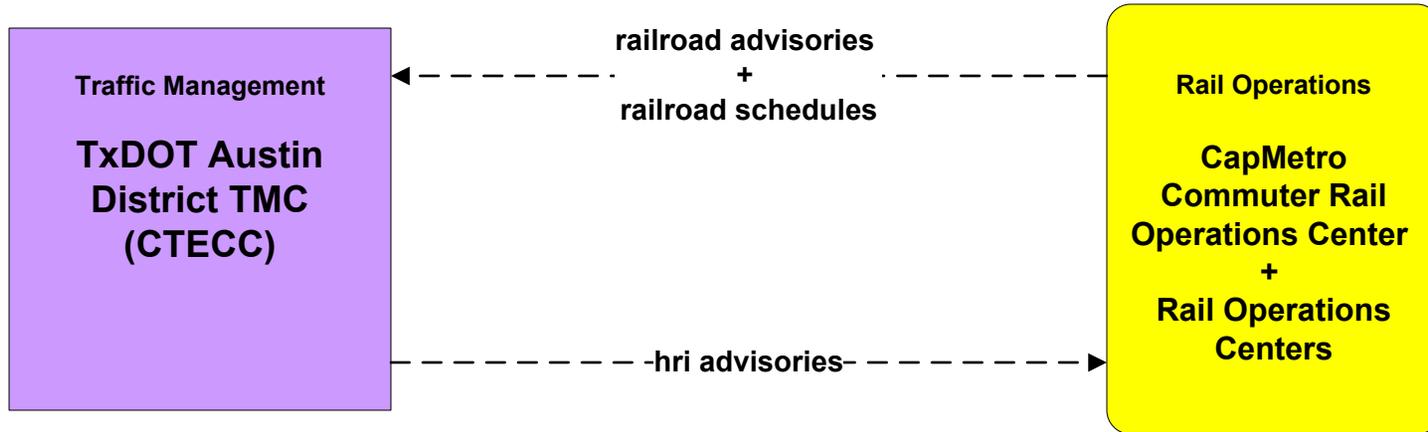
**ATMS13 - Standard Railroad Grade Crossing
City of San Marcos Traffic Operations Center**



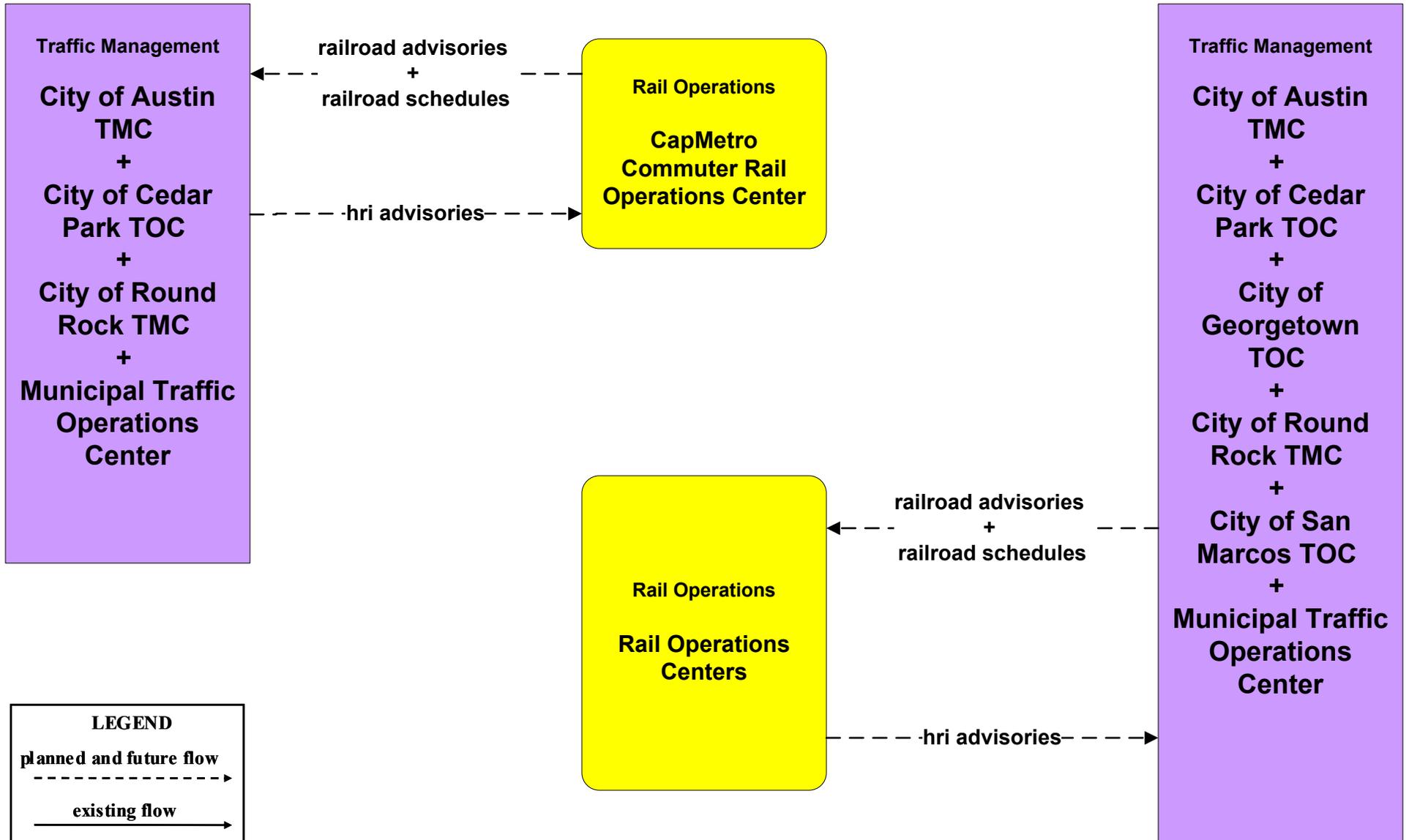
**ATMS13 - Standard Railroad Grade Crossing
Municipal Traffic Operations Center**



**ATMS15 - Railroad Operations Coordination
TxDOT Austin District Traffic Management Center**



**ATMS15 - Railroad Operations Coordination
City TMCs / City TOCs / Municipal Traffic Operations Center**



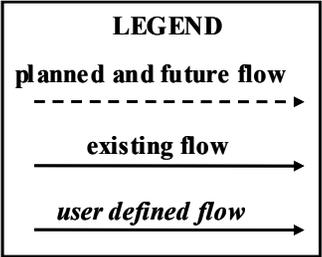
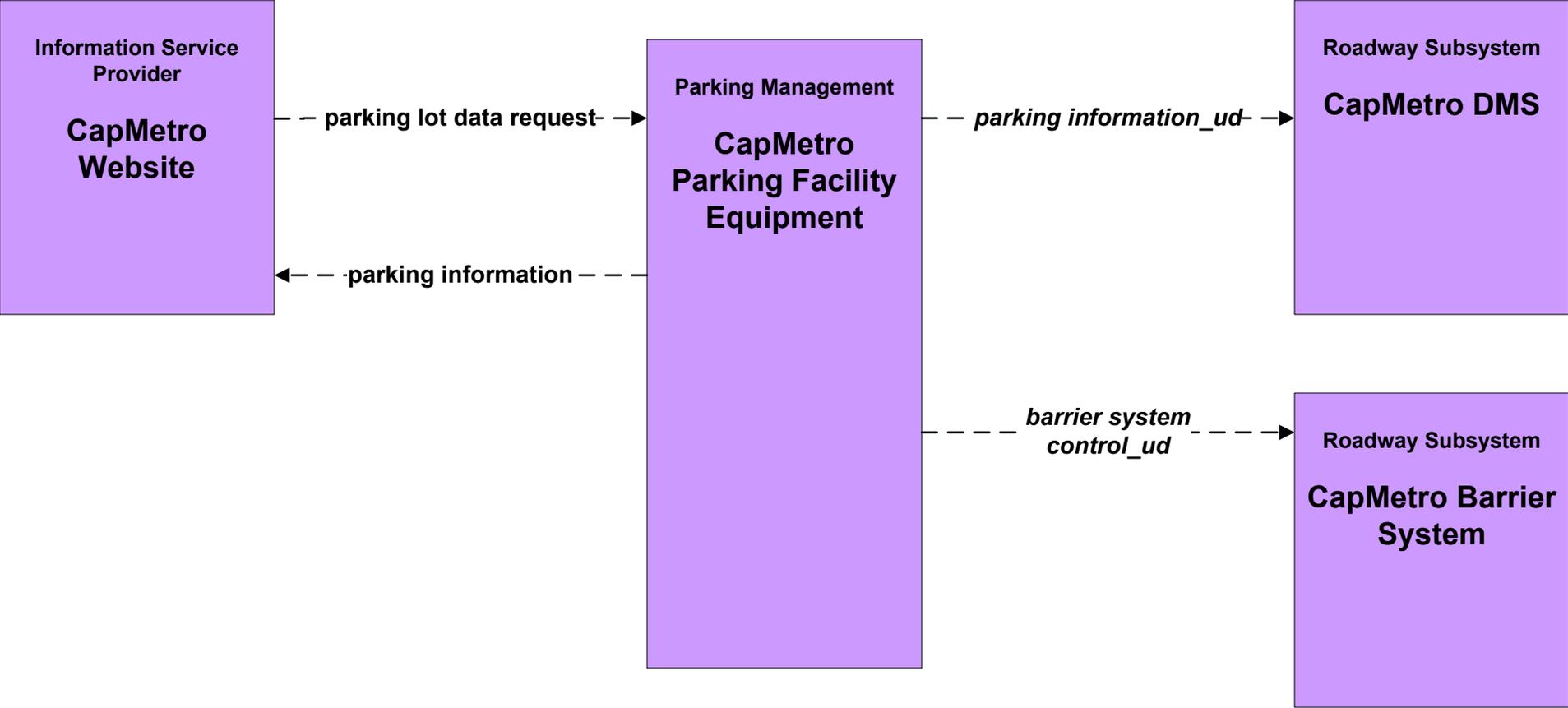
LEGEND

planned and future flow
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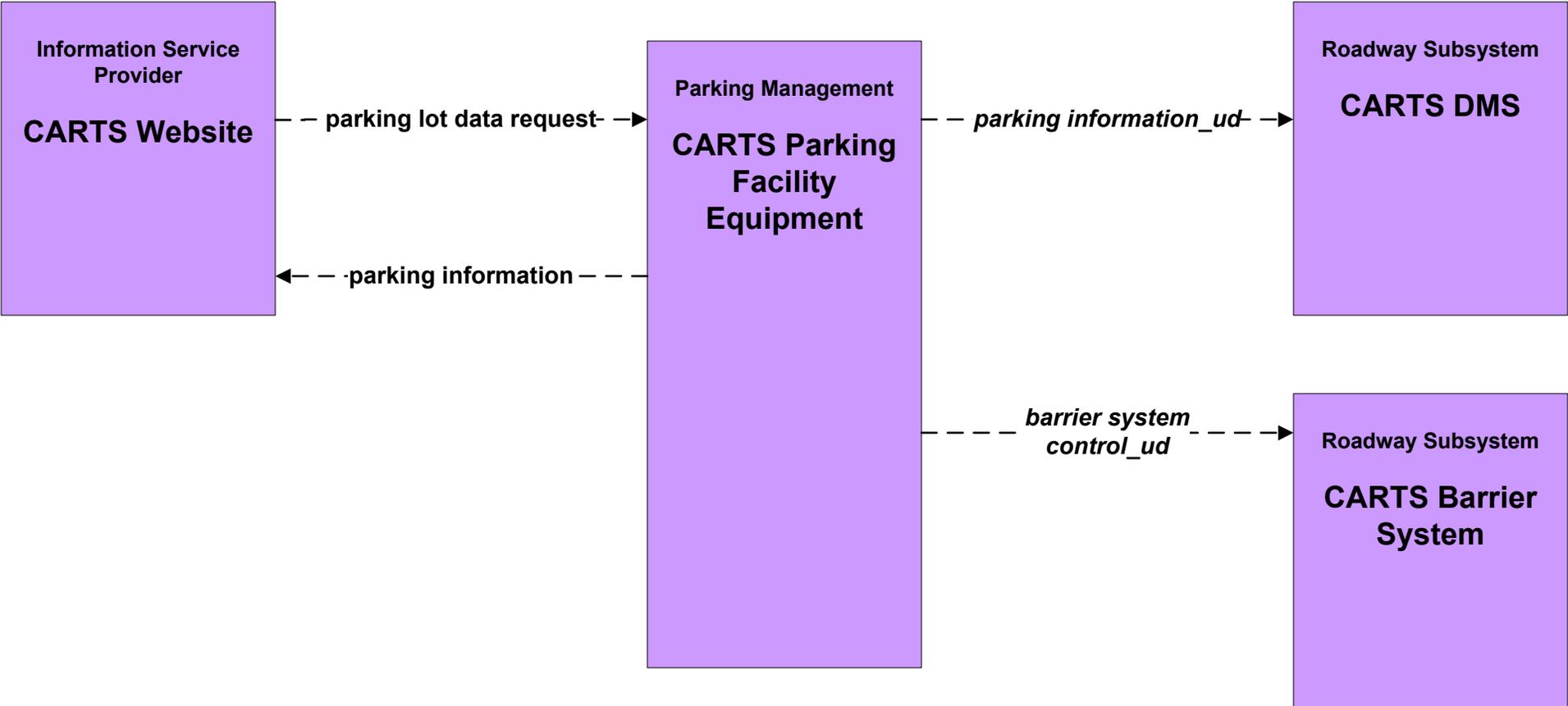
existing flow
 _____>

user defined flow
 _____>

**ATMS16 - Parking Facility Management
CapMetro**



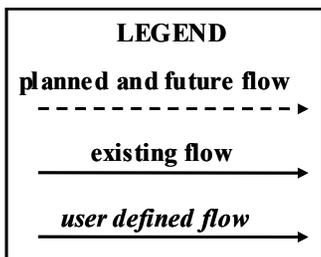
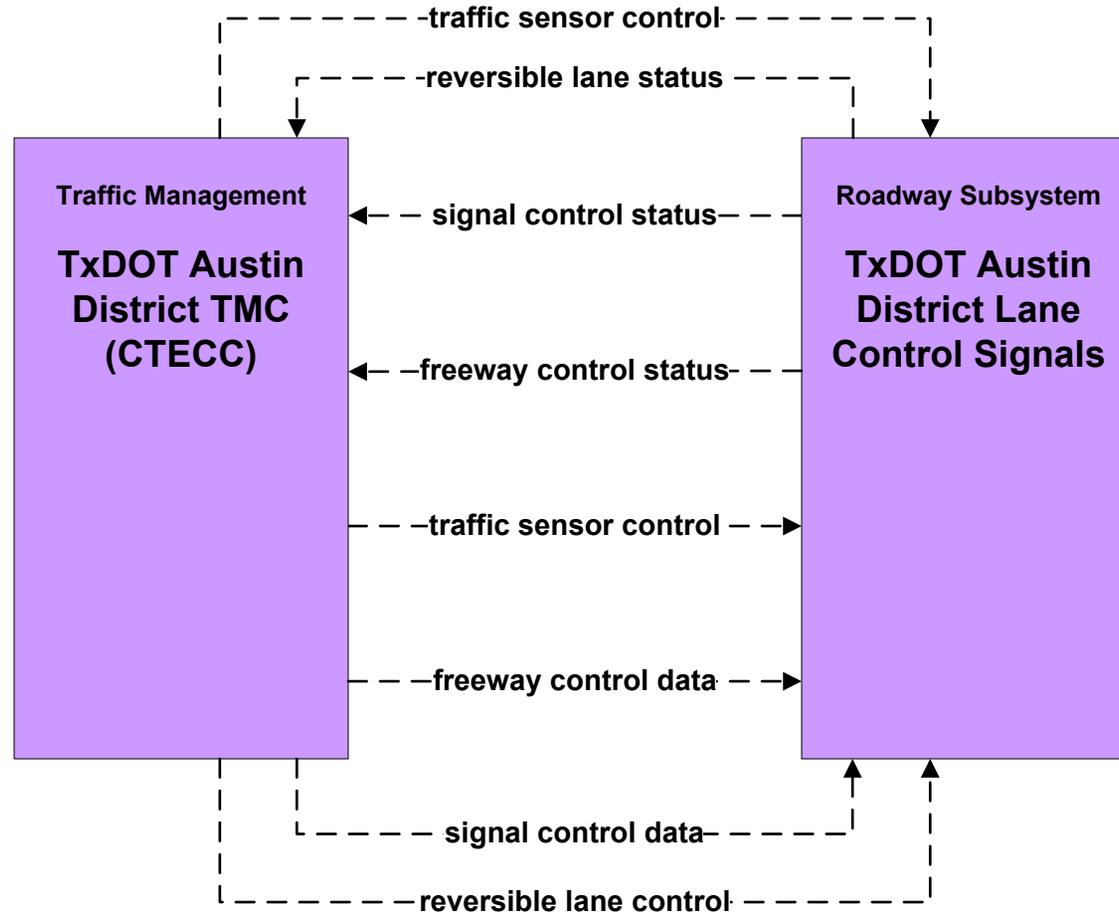
**ATMS16 - Parking Facility Management
CARTS**



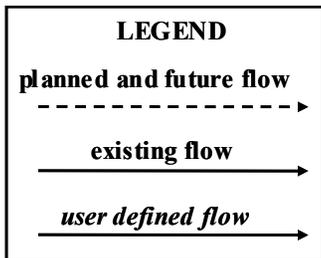
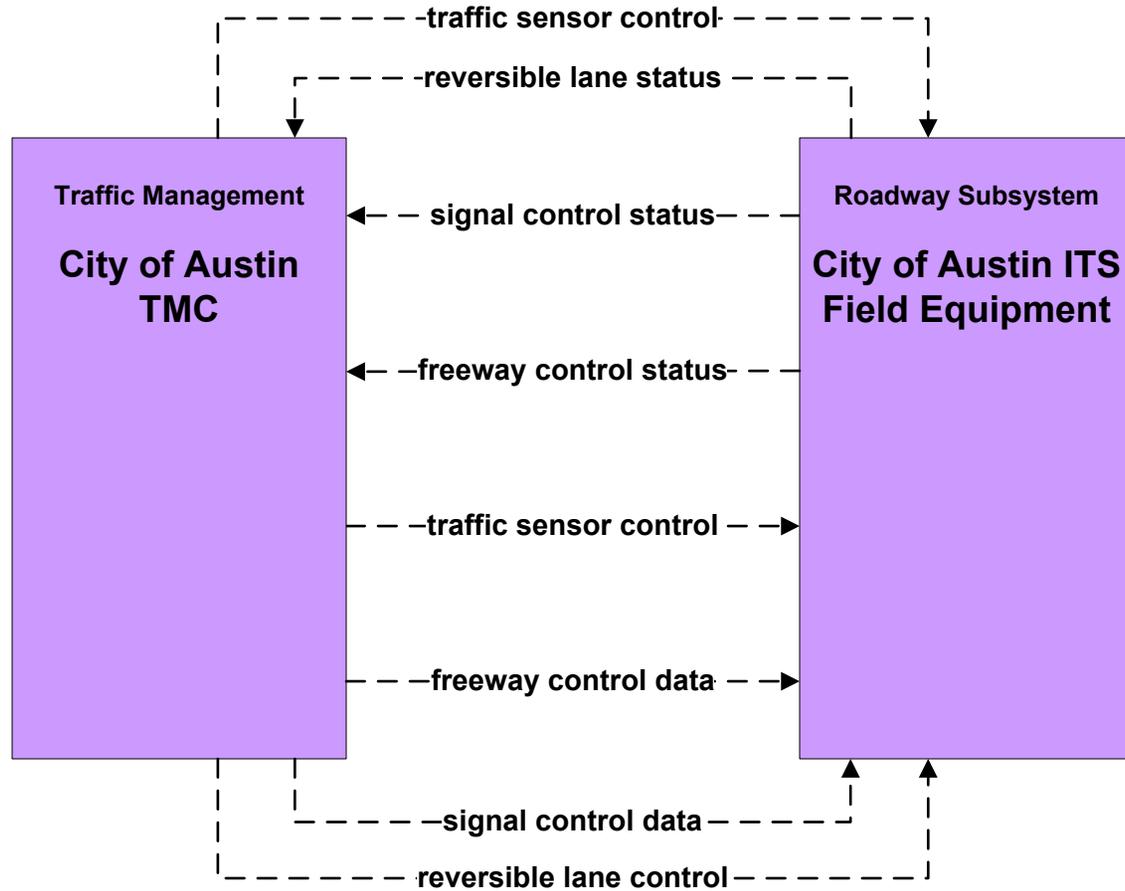
LEGEND

- planned and future flow
----->
- existing flow
—————>
- user defined flow
—————>

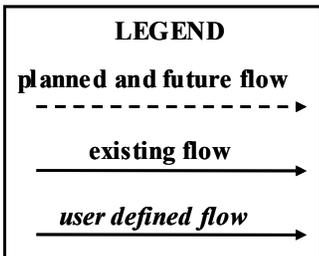
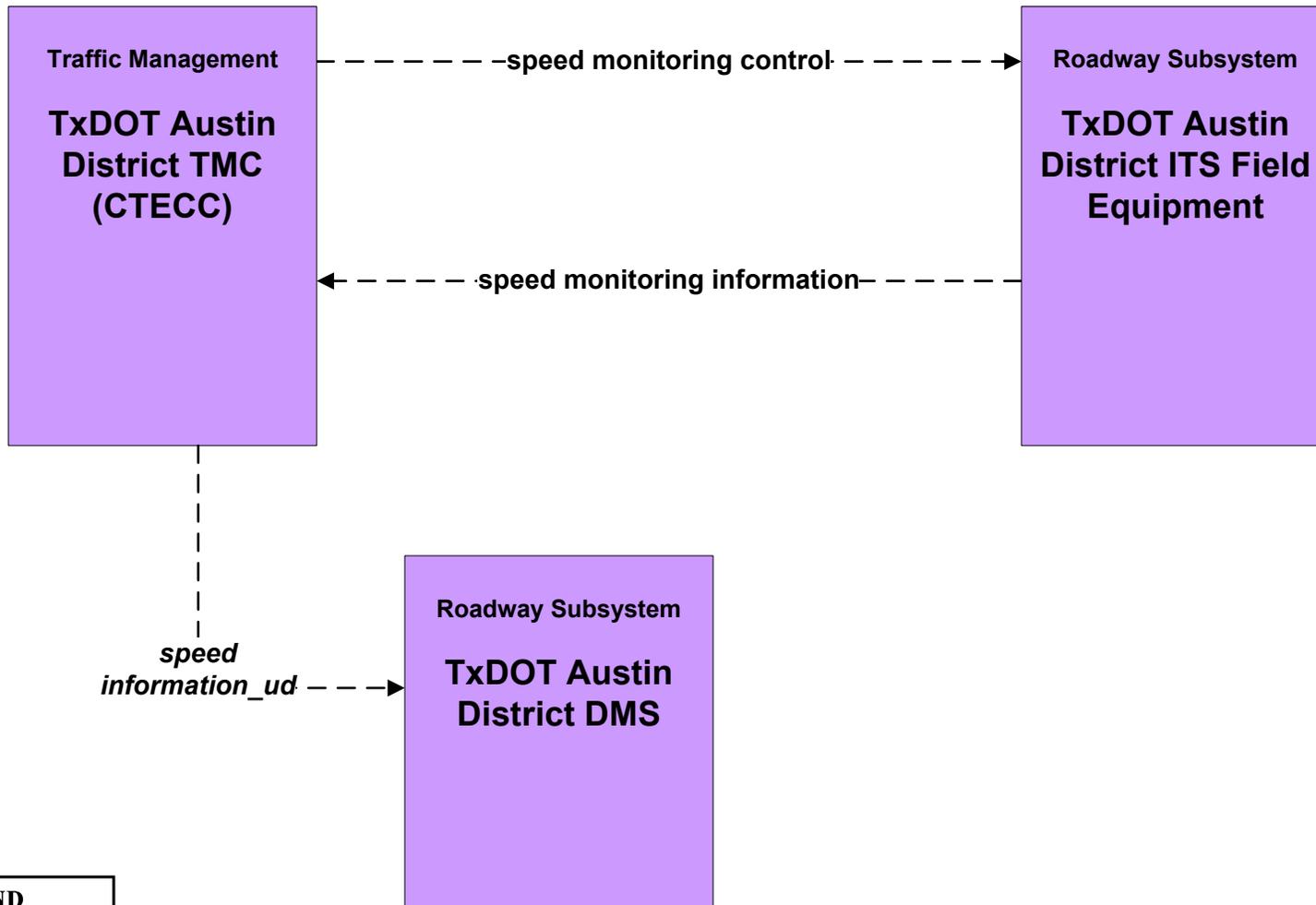
ATMS18 - Reversible Lane Management
TxDOT Austin / Texas Turnpike Authority



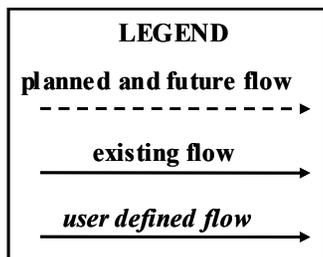
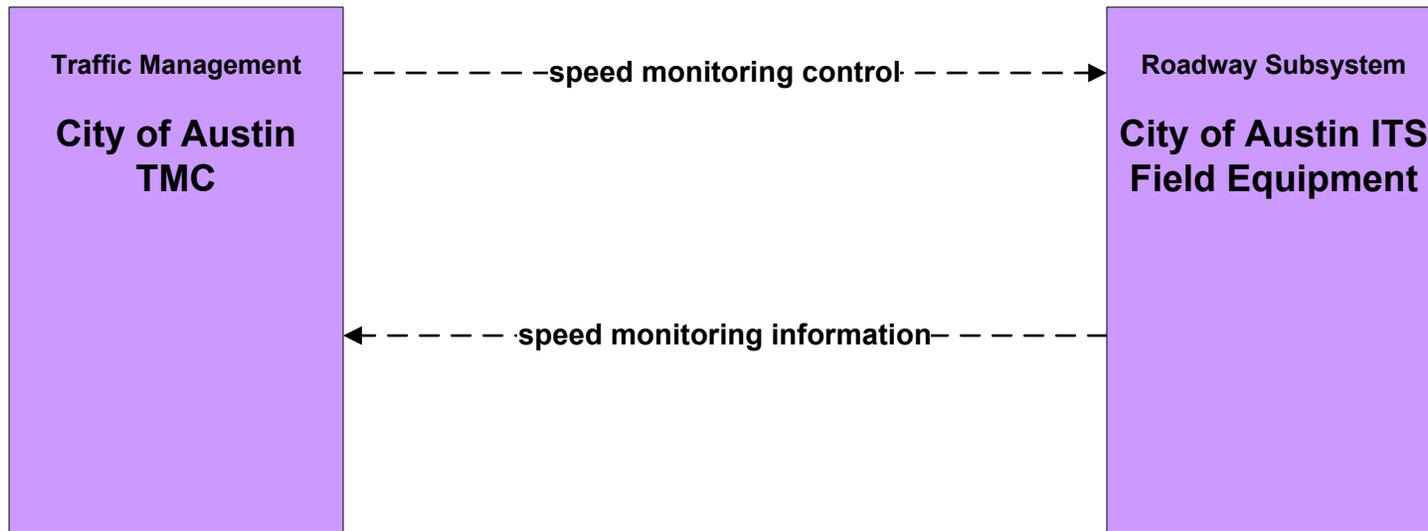
ATMS18 - Reversible Lane Management City of Austin



ATMS19 - Speed Monitoring TxDOT Austin District

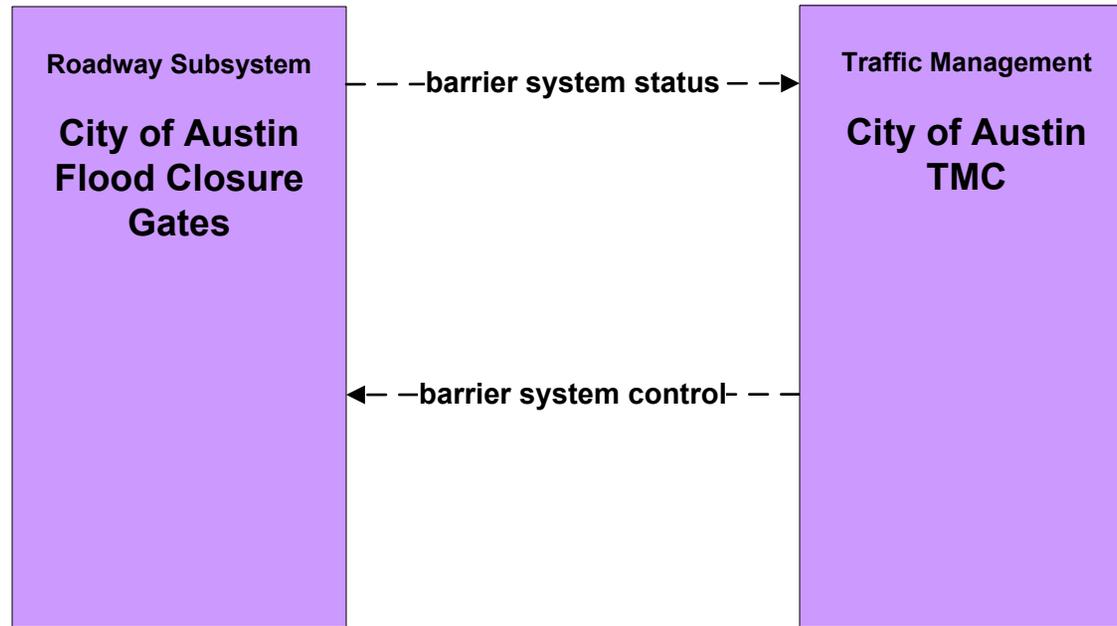


**ATMS19 - Speed Monitoring
City of Austin**



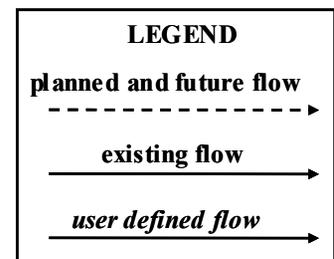
ATMS21 - Roadway Closure Management

City of Austin – Flood Closure Gates

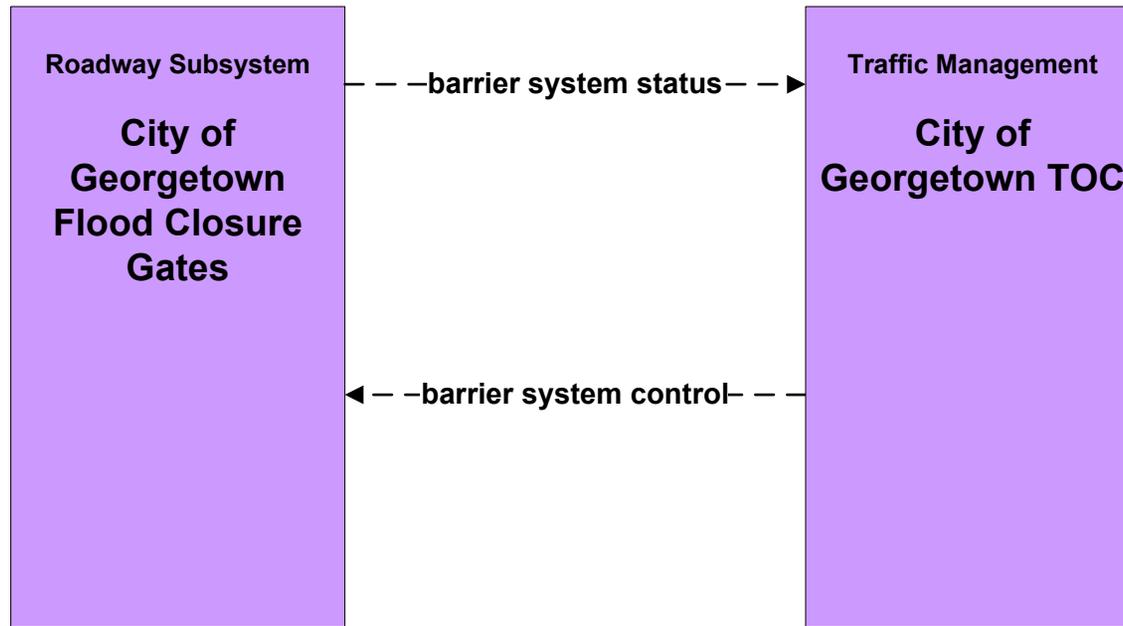


NOTE: Flood Gates are currently controlled by the Watershed Utility Department.

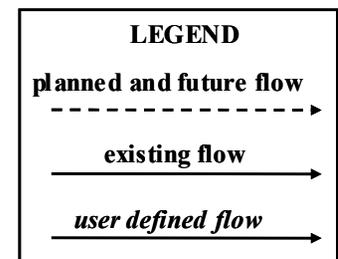
NOTE: Additional Flood Detection information can be found in EM07.



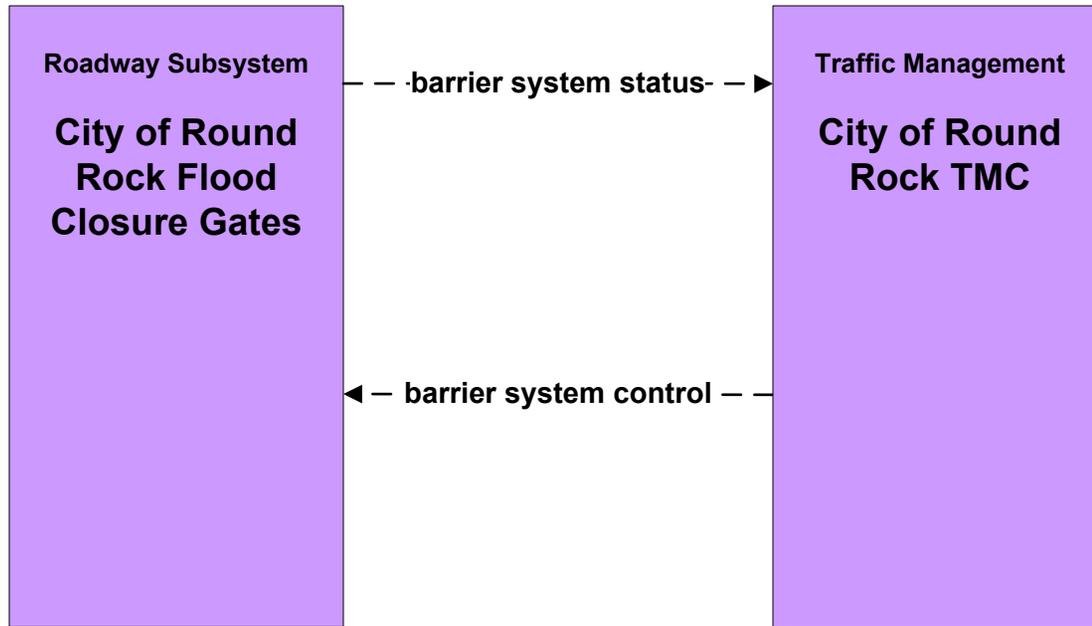
**ATMS21 - Roadway Closure Management
City of Georgetown – Flood Closure Gates**



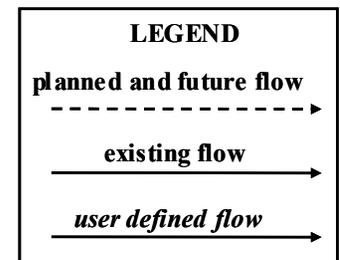
NOTE: Additional Flood Detection information can be found in EM07.



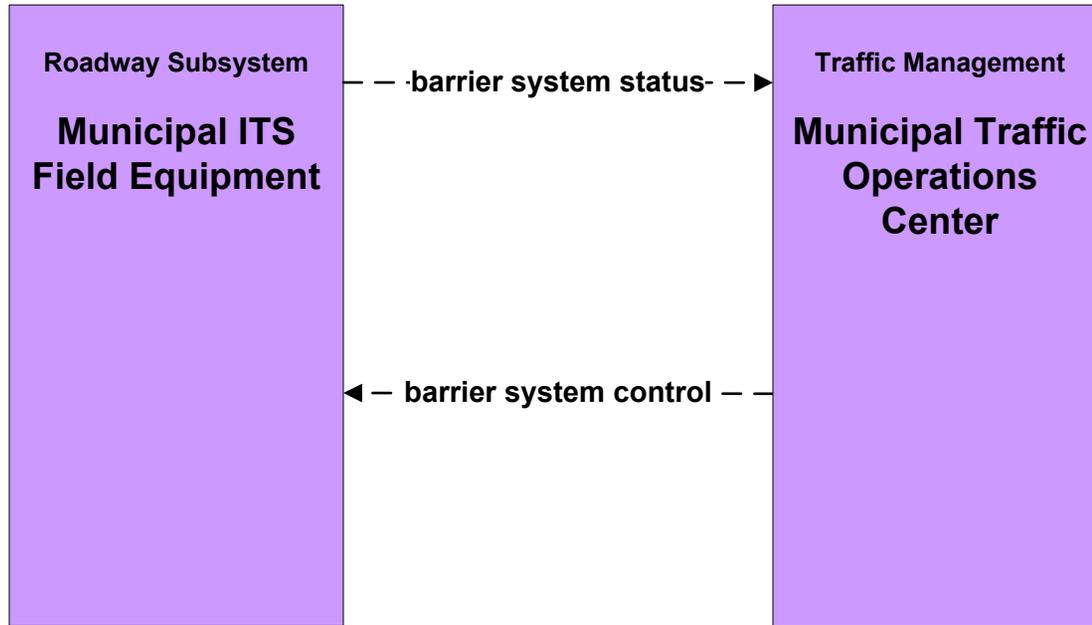
**ATMS21 - Roadway Closure Management
City of Round Rock – Flood Closure Gates**



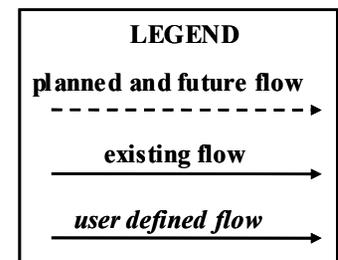
NOTE: Additional Flood Detection information can be found in EM07.



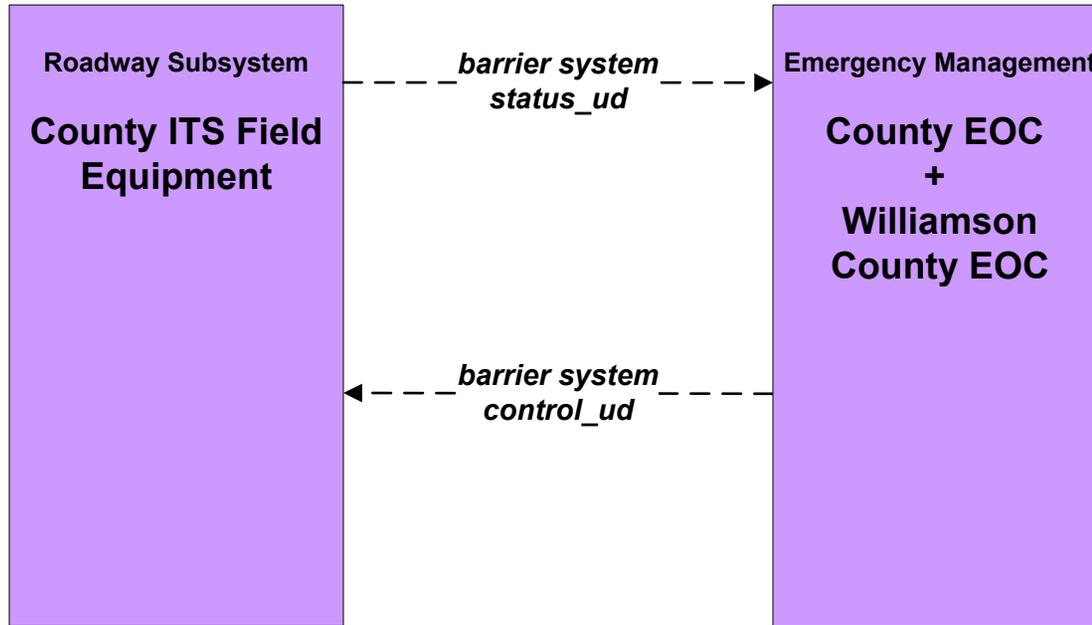
ATMS21 - Roadway Closure Management Municipal – Flood Closure Gates



NOTE: Additional Flood Detection information can be found in EM07.



ATMS21 - Roadway Closure Management County – Flood Closure Gates



Includes deploying flood monitoring devices and flood control gates in Hays and Williamson Counties.

NOTE: Additional Flood Detection information can be found in EM07.

