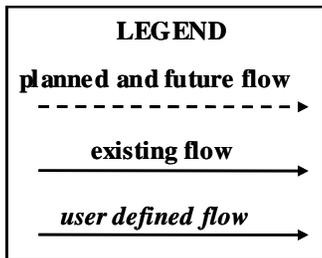
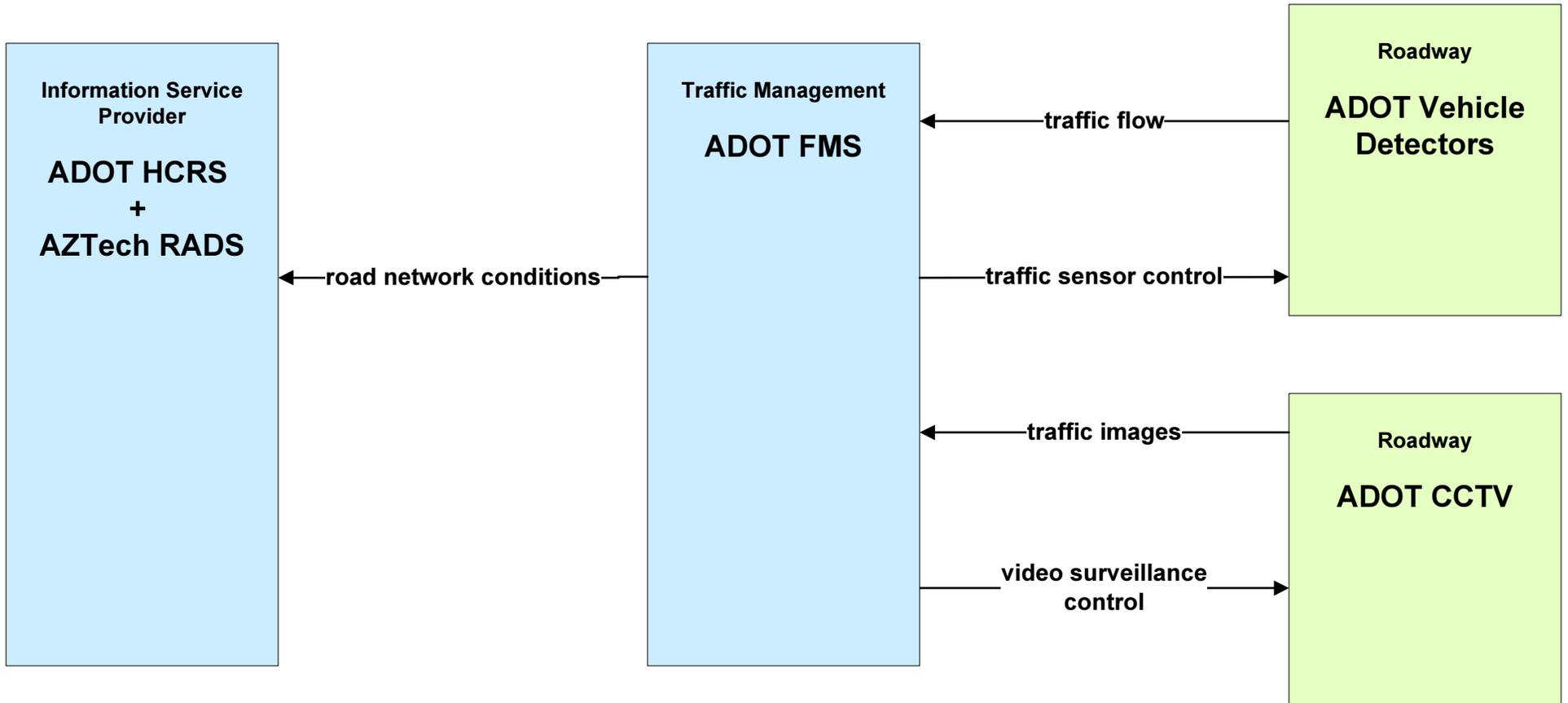


# **Maricopa Association of Governments (MAG) Regional ITS Architecture**

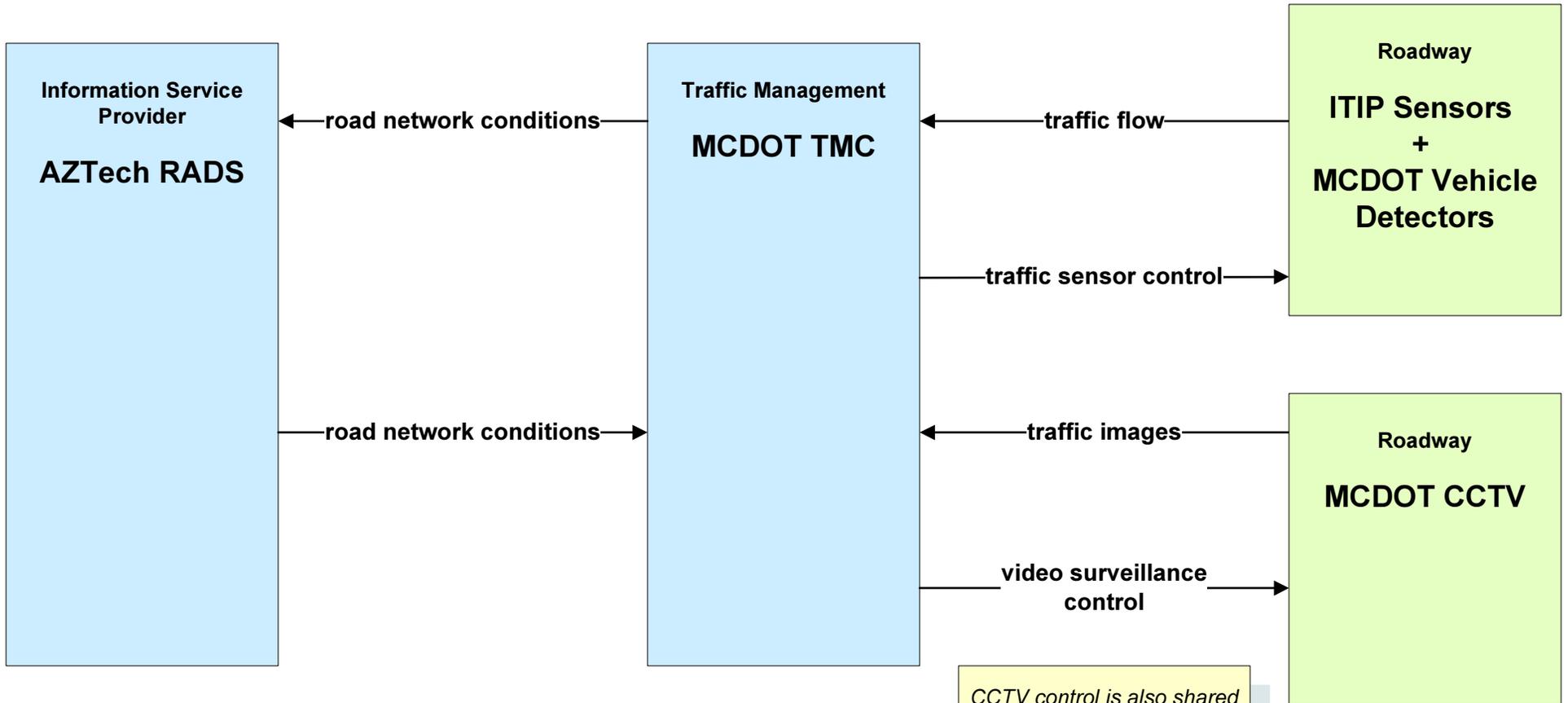
**Customized Service Package Diagrams**

**Advanced Traffic Management Systems  
(ATMS)**

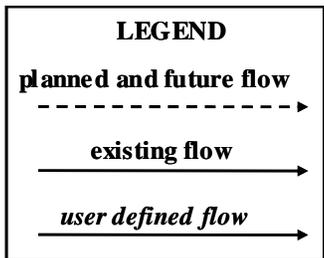
**ATMS01 - Network Surveillance  
Arizona DOT**



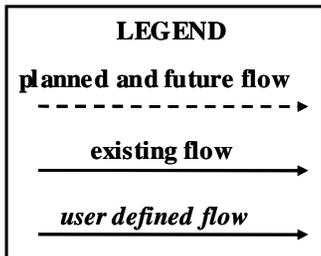
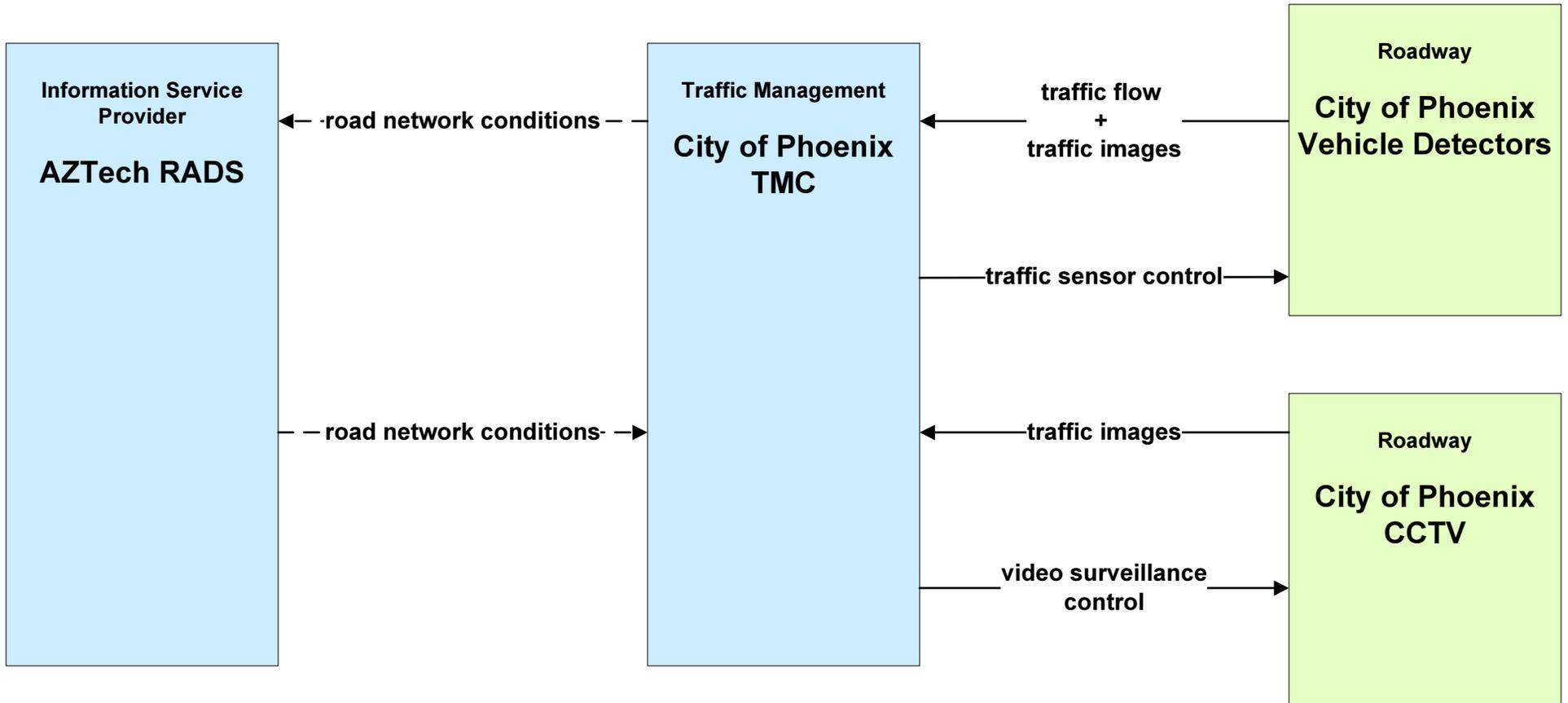
# ATMS01 - Network Surveillance Maricopa County



*CCTV control is also shared with other agencies and is depicted in ATMS07.*

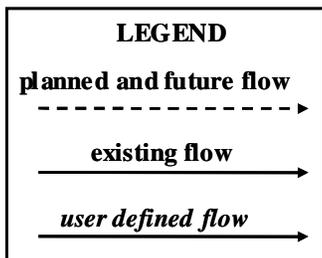
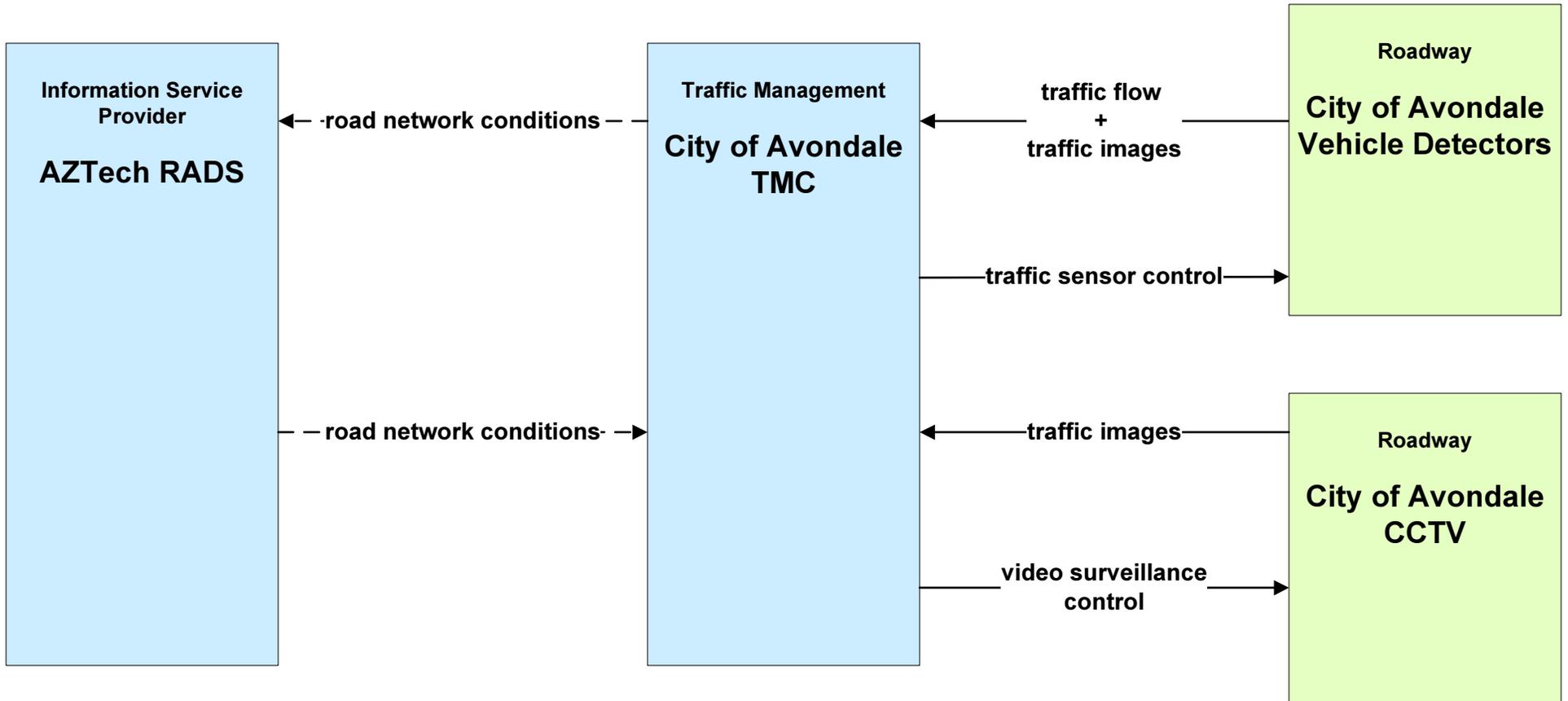


# ATMS01 - Network Surveillance City of Phoenix



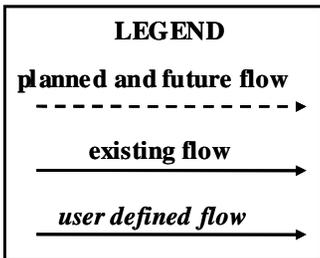
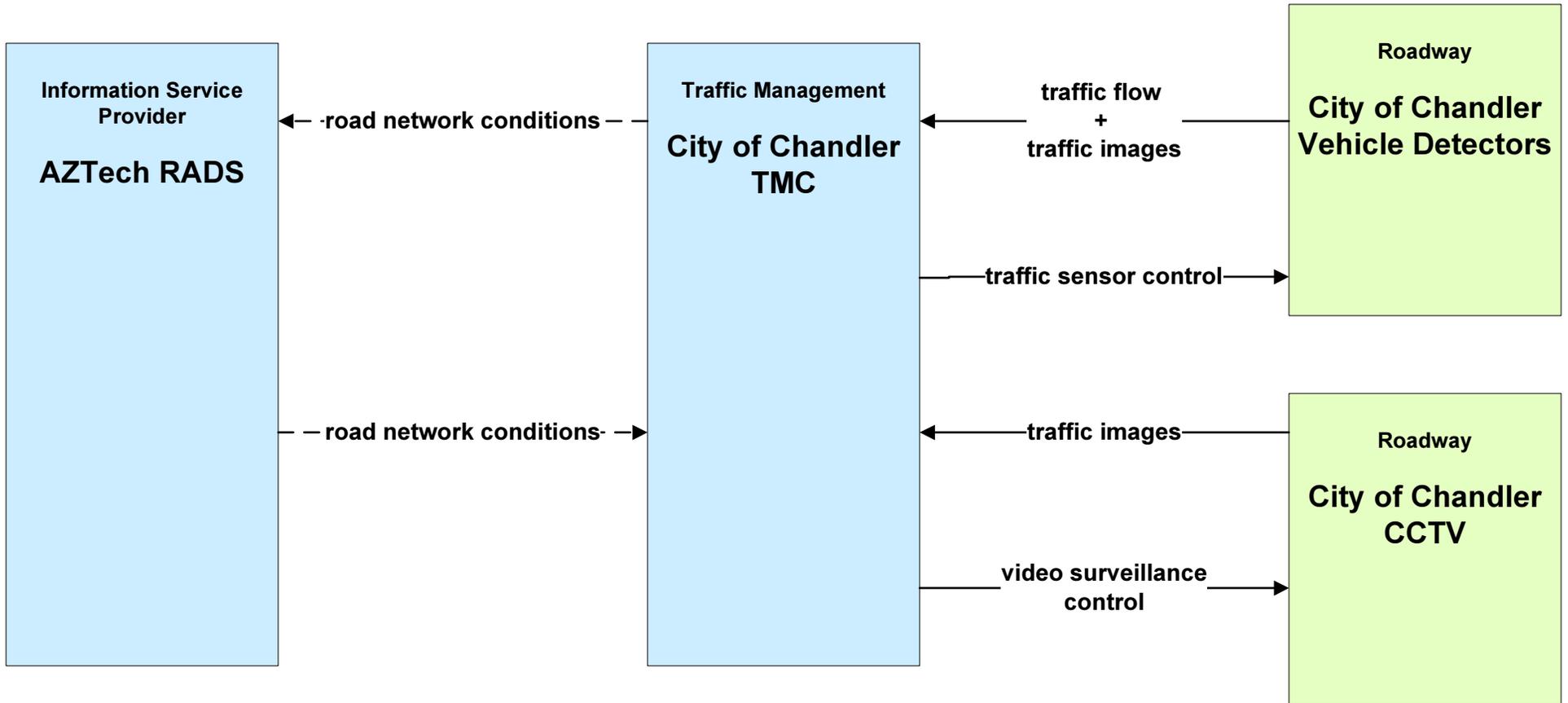
*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*

# ATMS01 - Network Surveillance City of Avondale



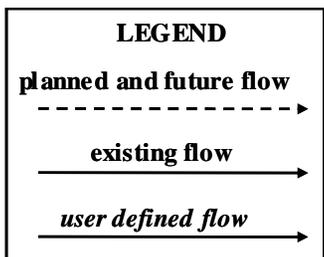
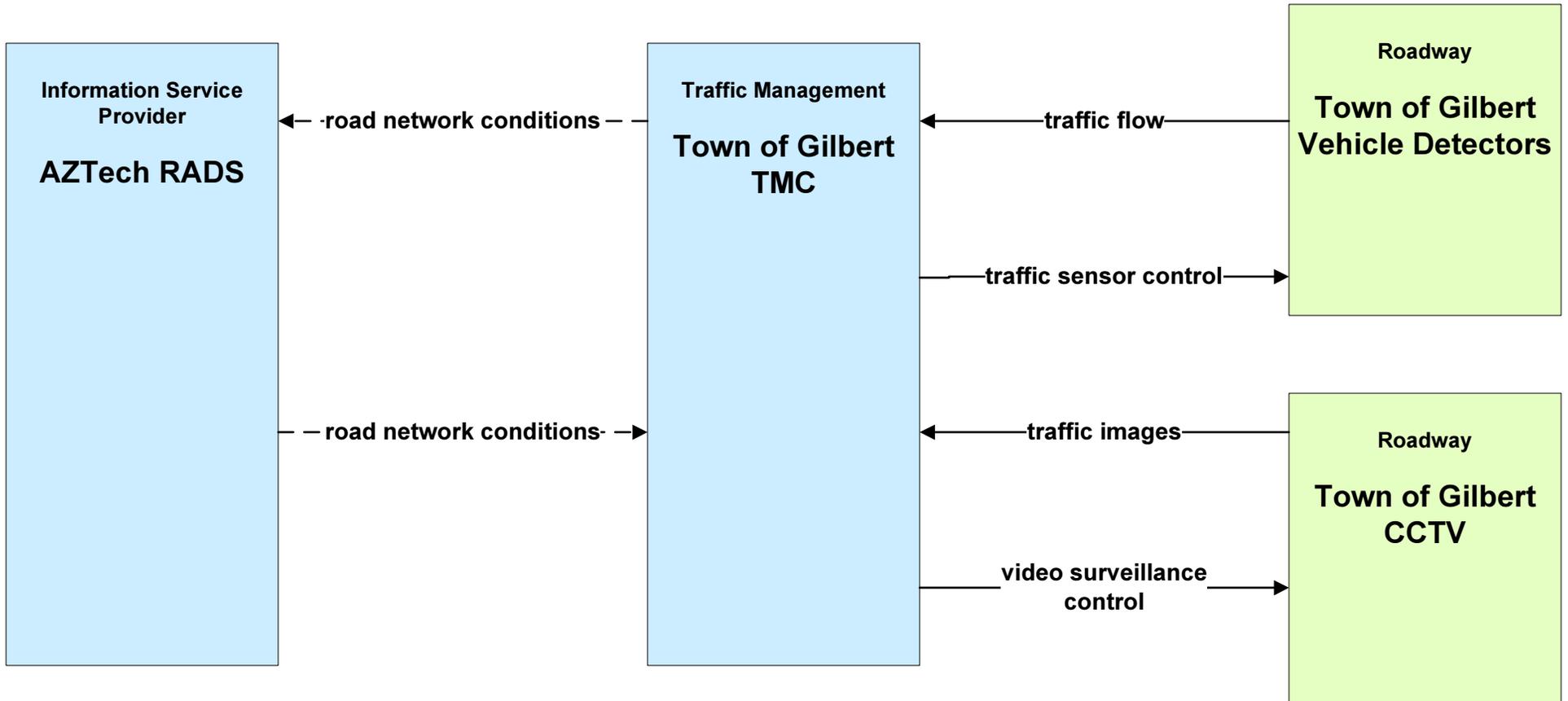
*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*

# ATMS01 - Network Surveillance City of Chandler



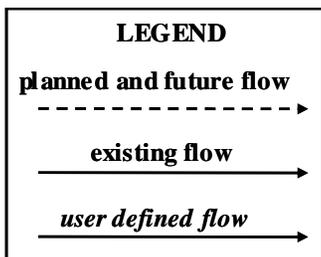
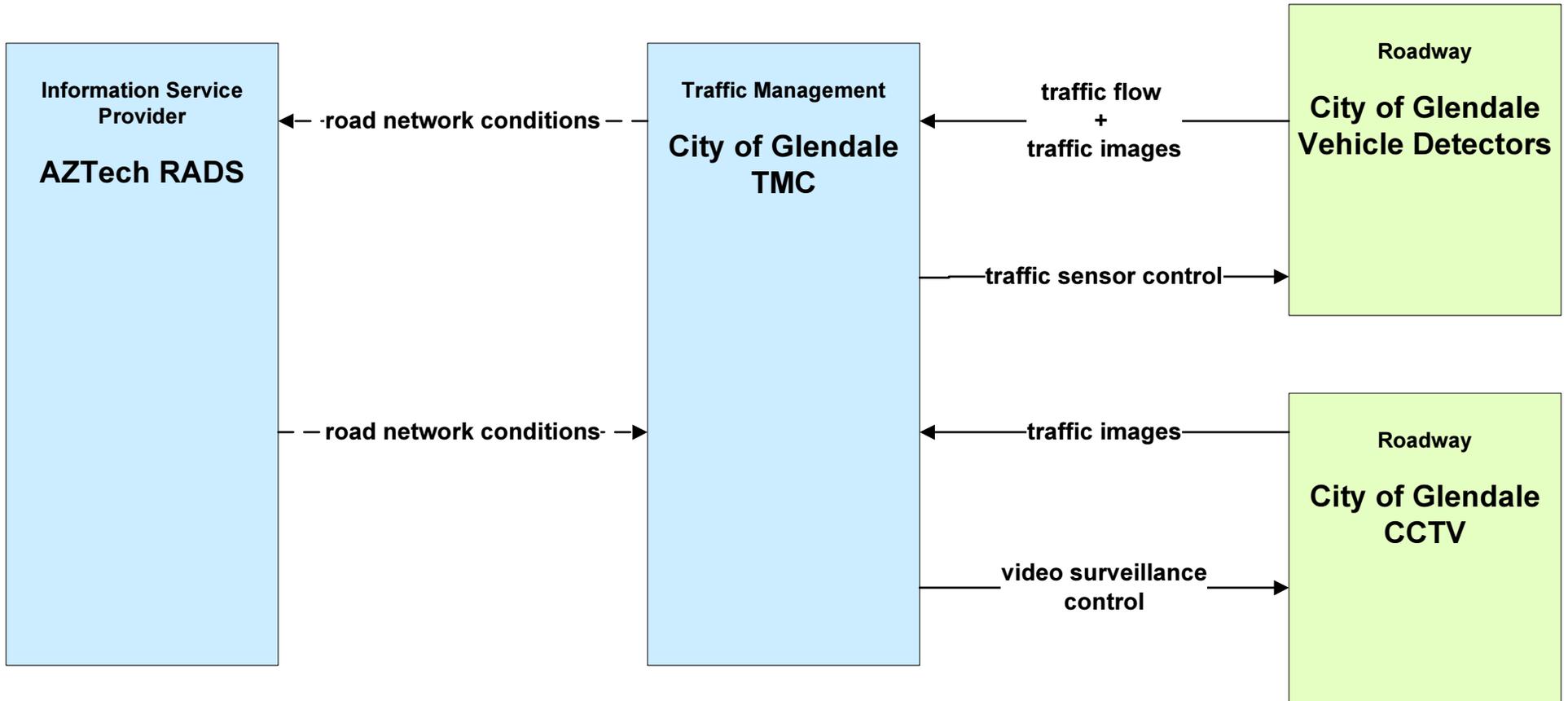
*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*

# ATMS01 - Network Surveillance Town of Gilbert



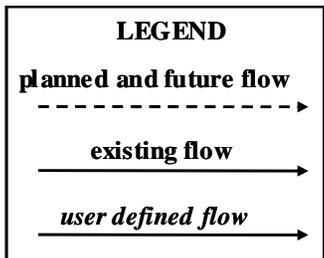
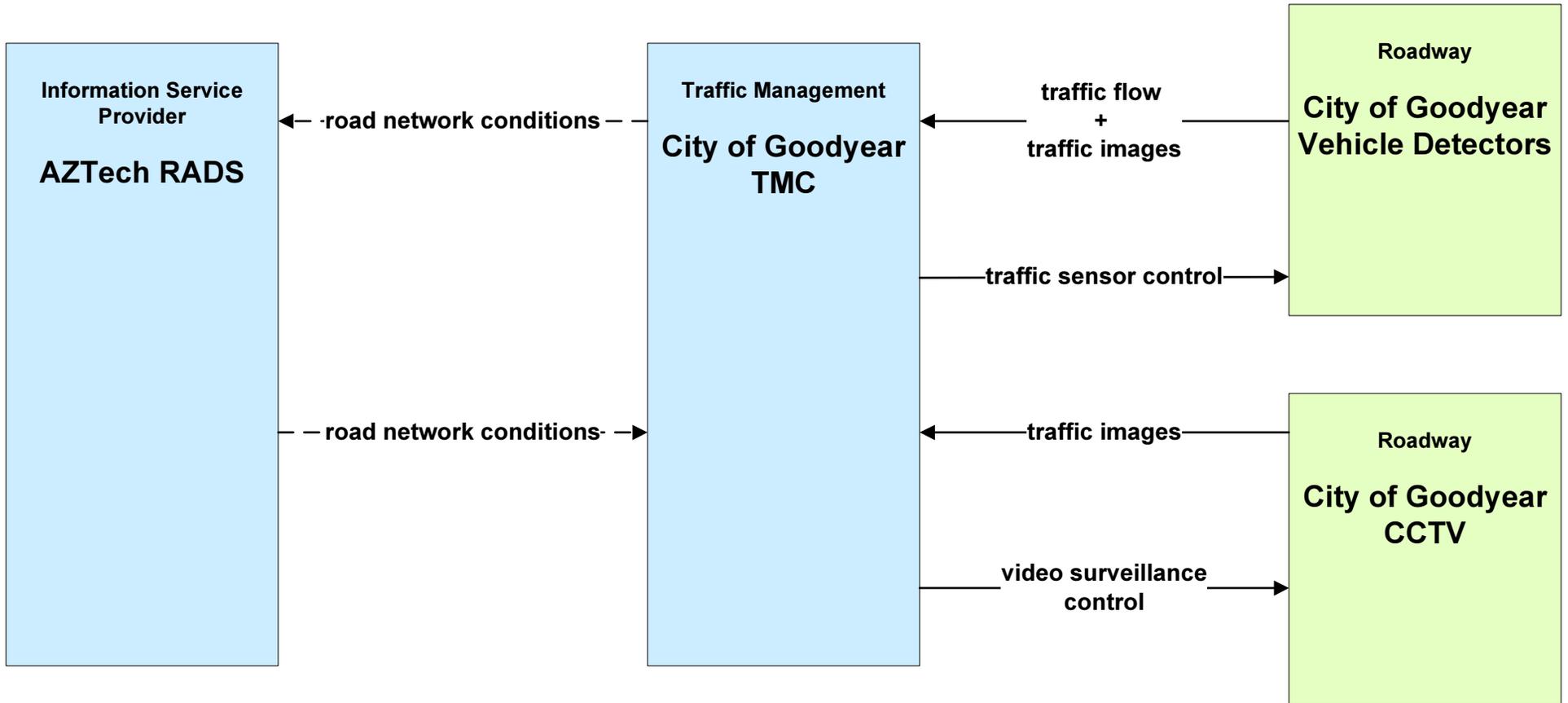
*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*

# ATMS01 - Network Surveillance City of Glendale



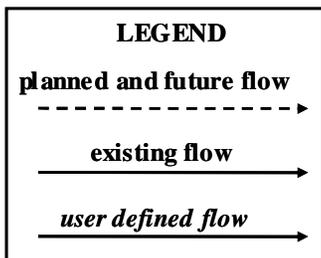
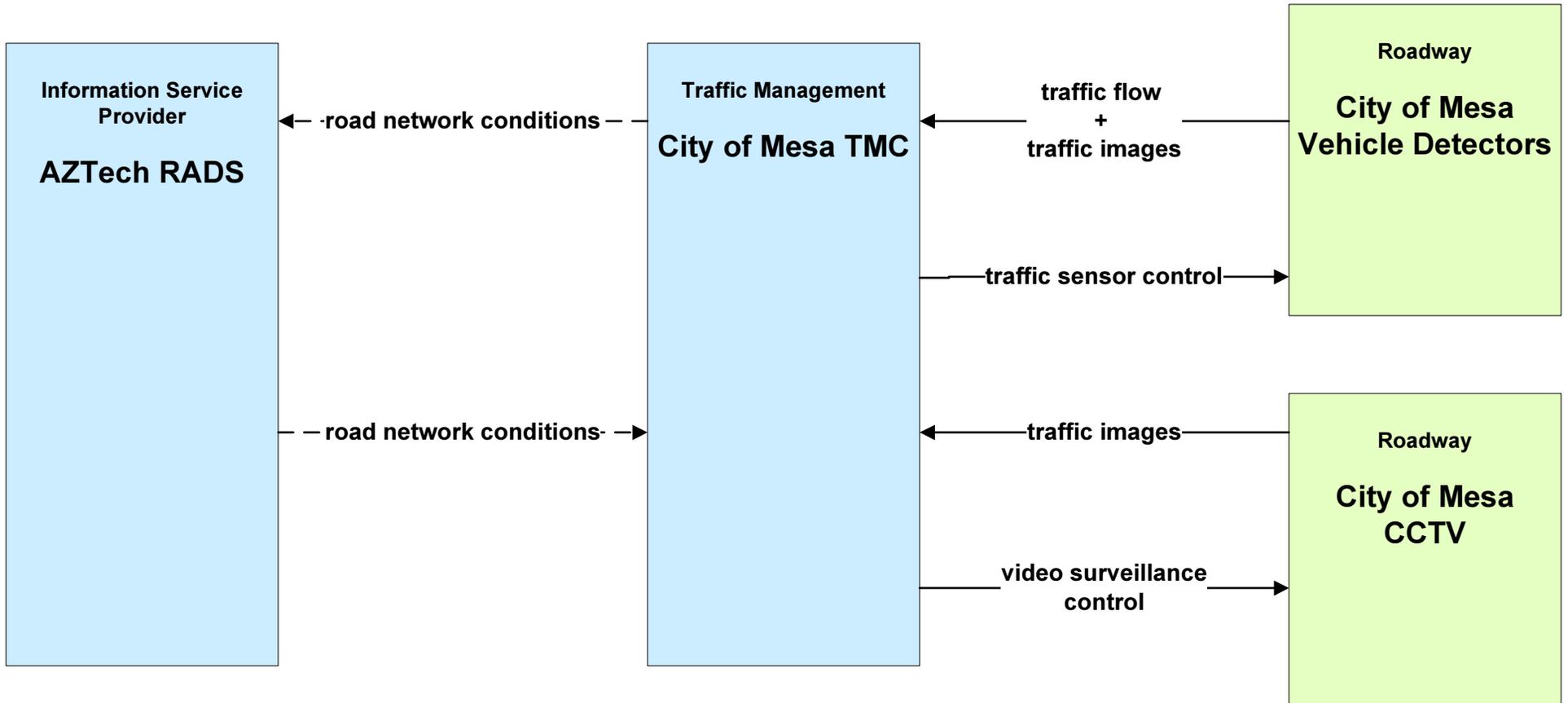
*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*

# ATMS01 - Network Surveillance City of Goodyear



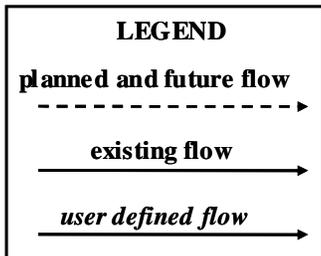
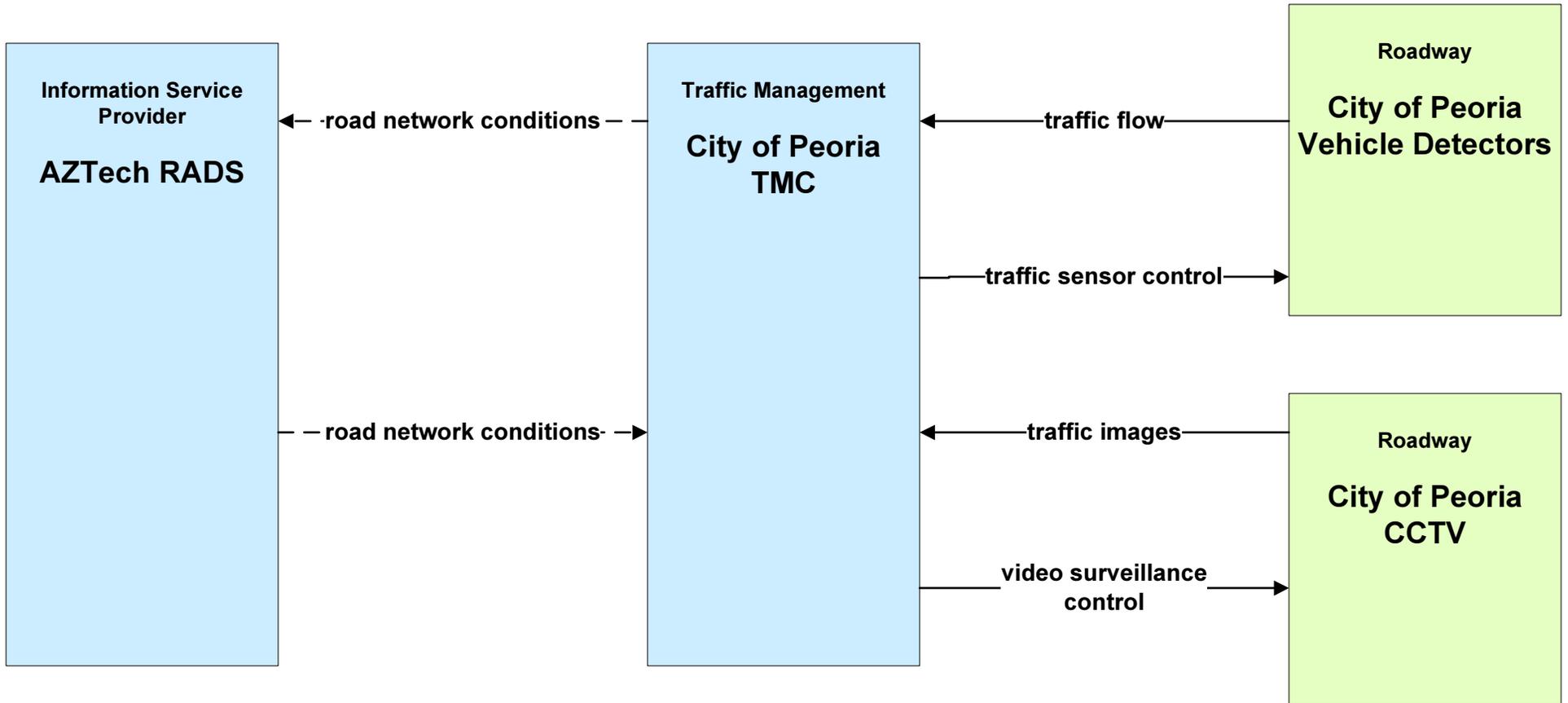
*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*

# ATMS01 - Network Surveillance City of Mesa



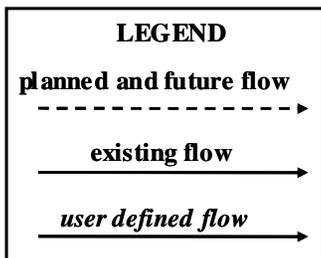
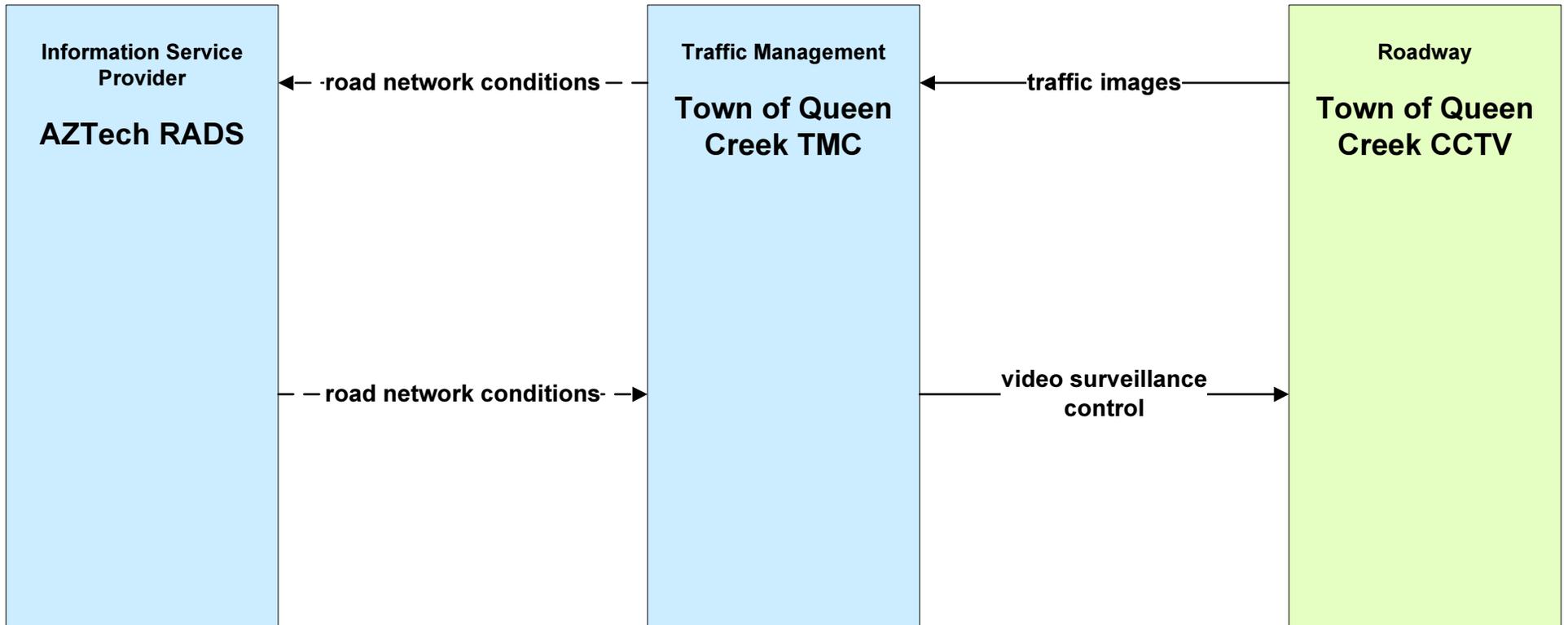
*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*

# ATMS01 - Network Surveillance City of Peoria



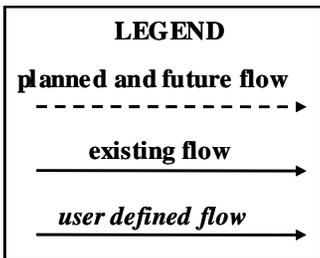
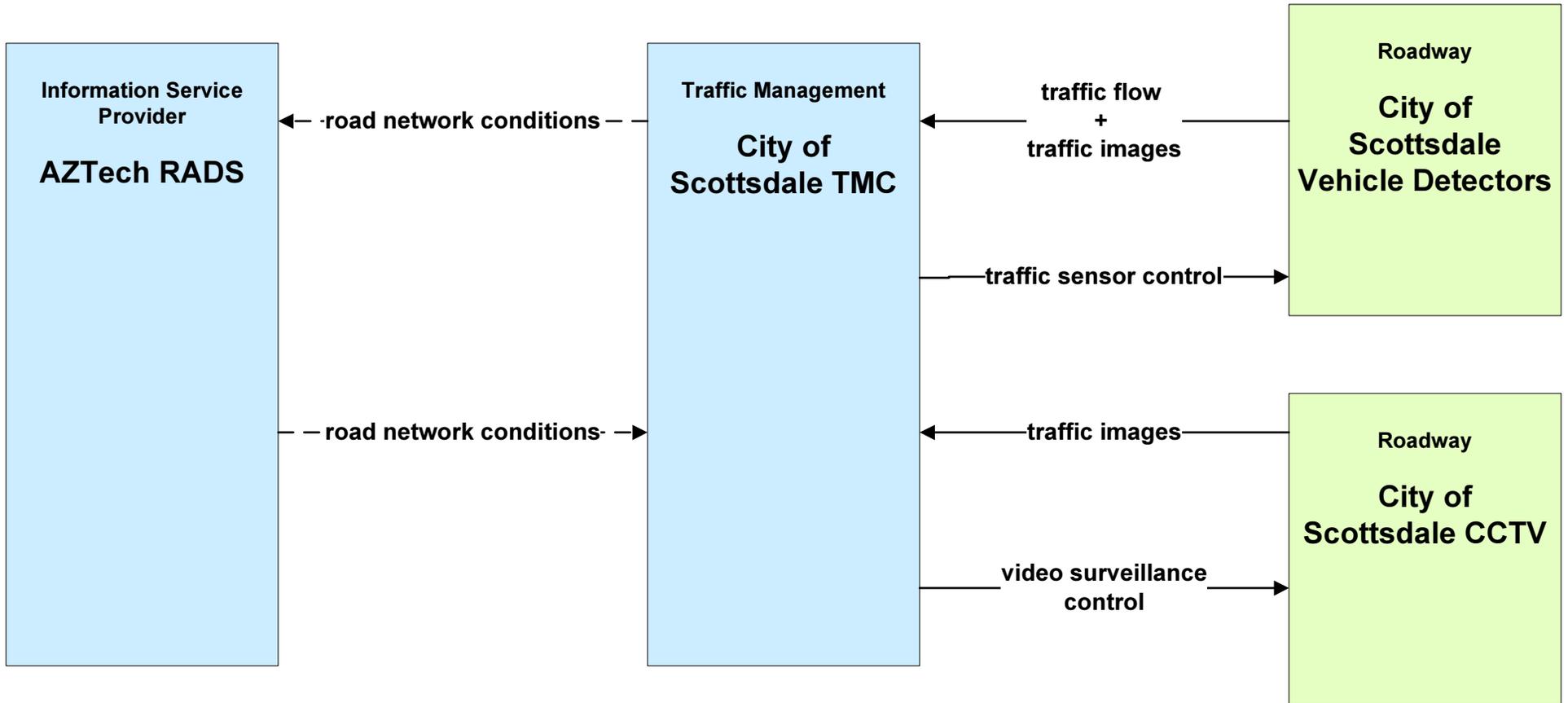
*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*

# ATMS01 - Network Surveillance Town of Queen Creek



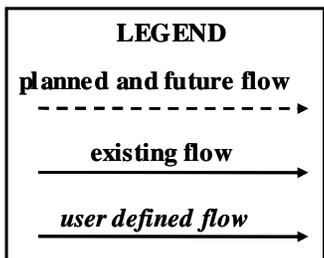
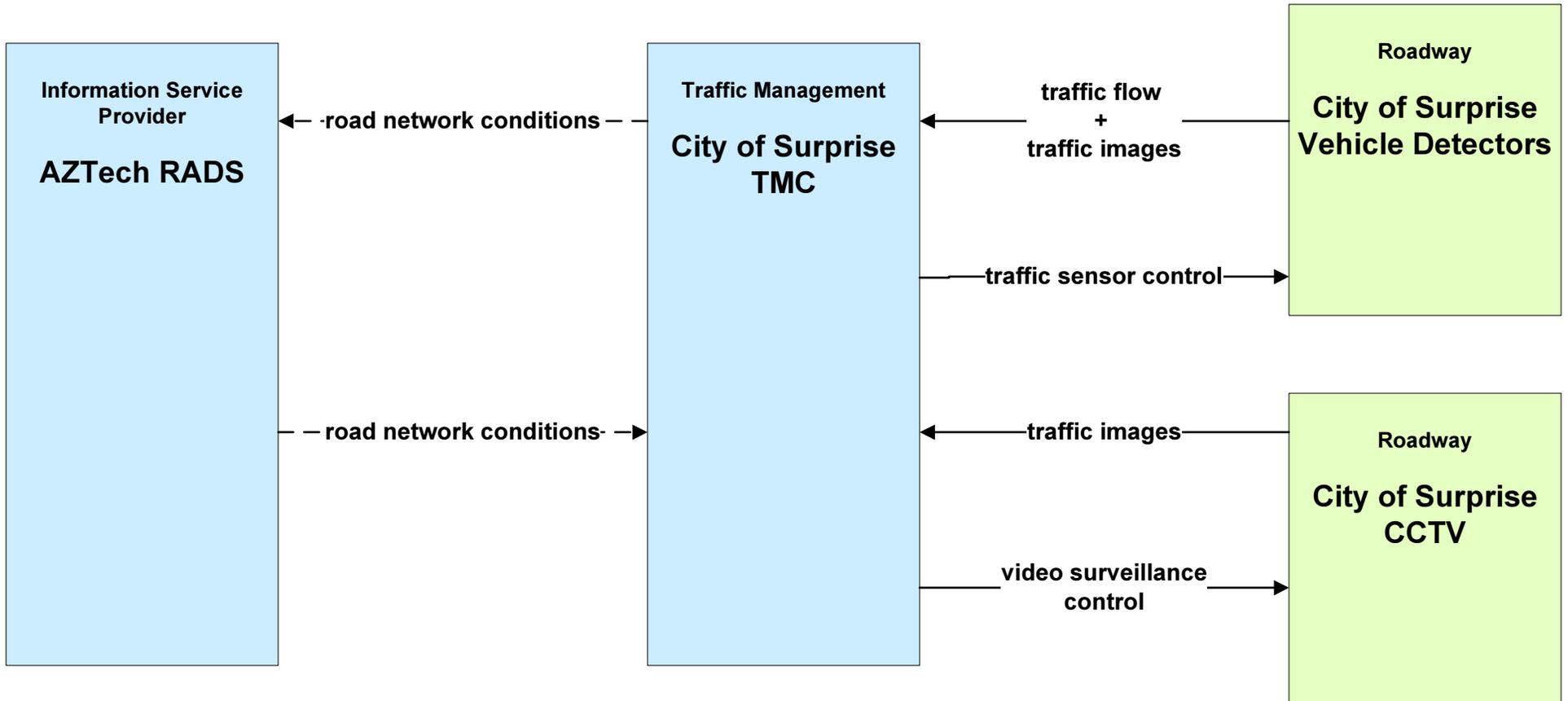
*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*

# ATMS01 - Network Surveillance City of Scottsdale



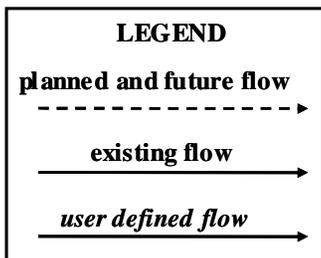
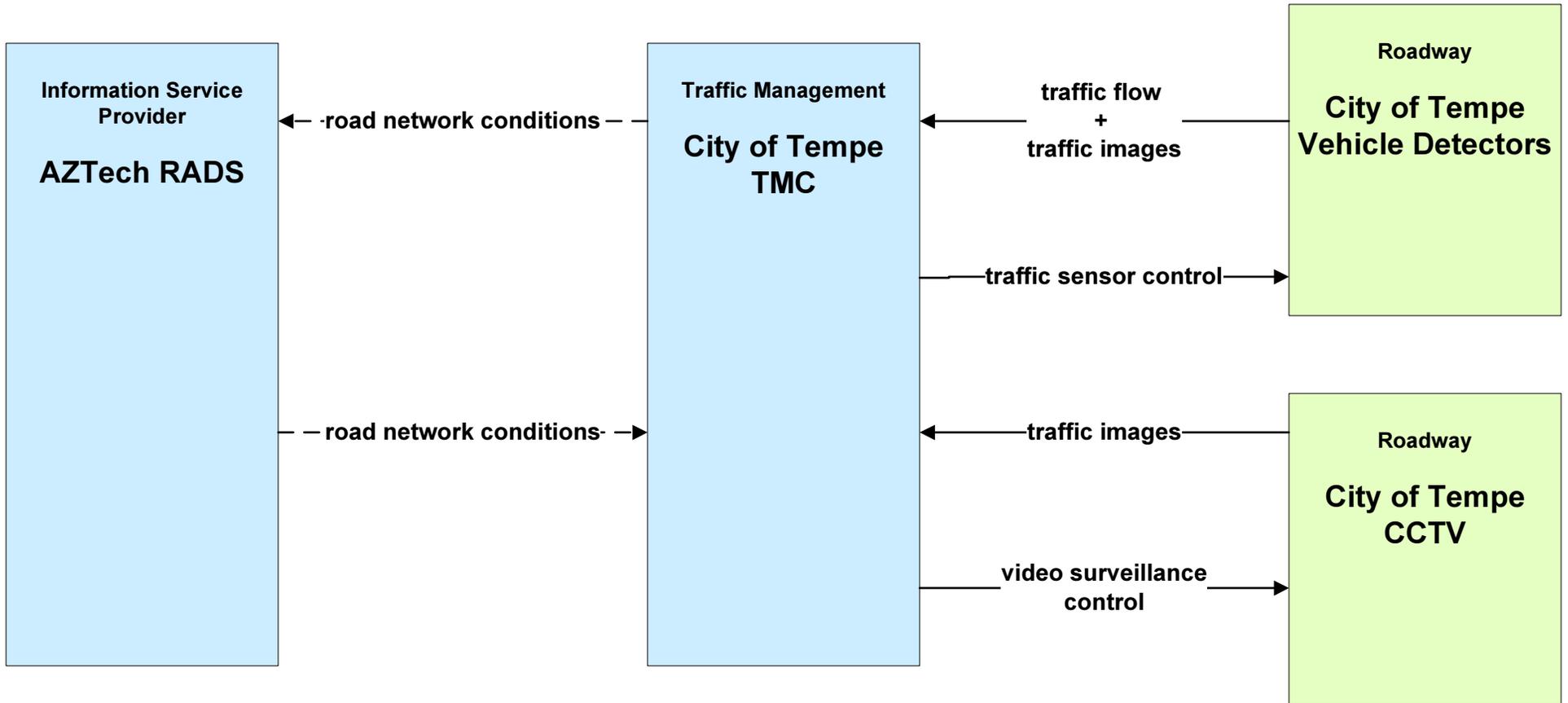
*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*

# ATMS01 - Network Surveillance City of Surprise



*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*

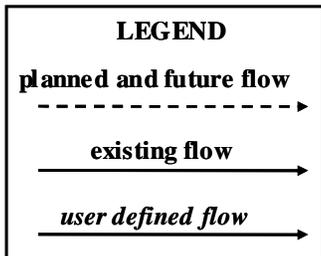
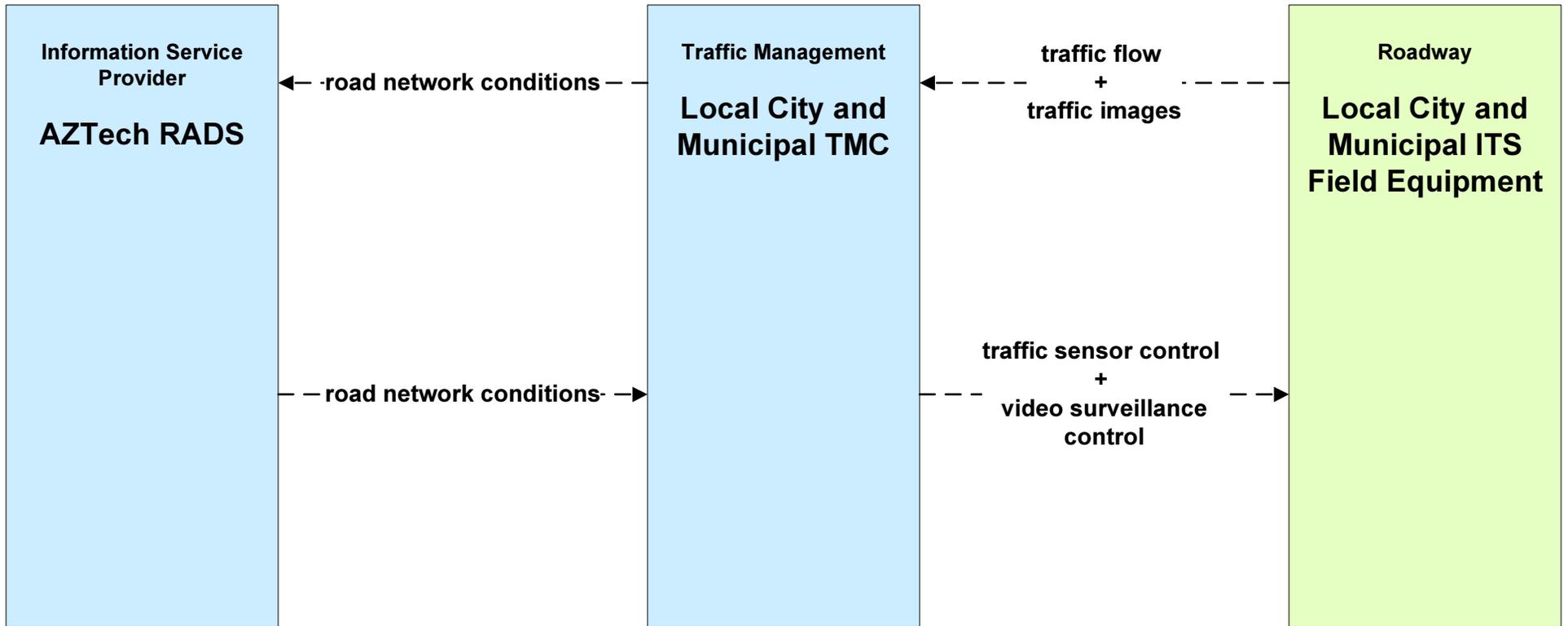
# ATMS01 - Network Surveillance City of Tempe



*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*

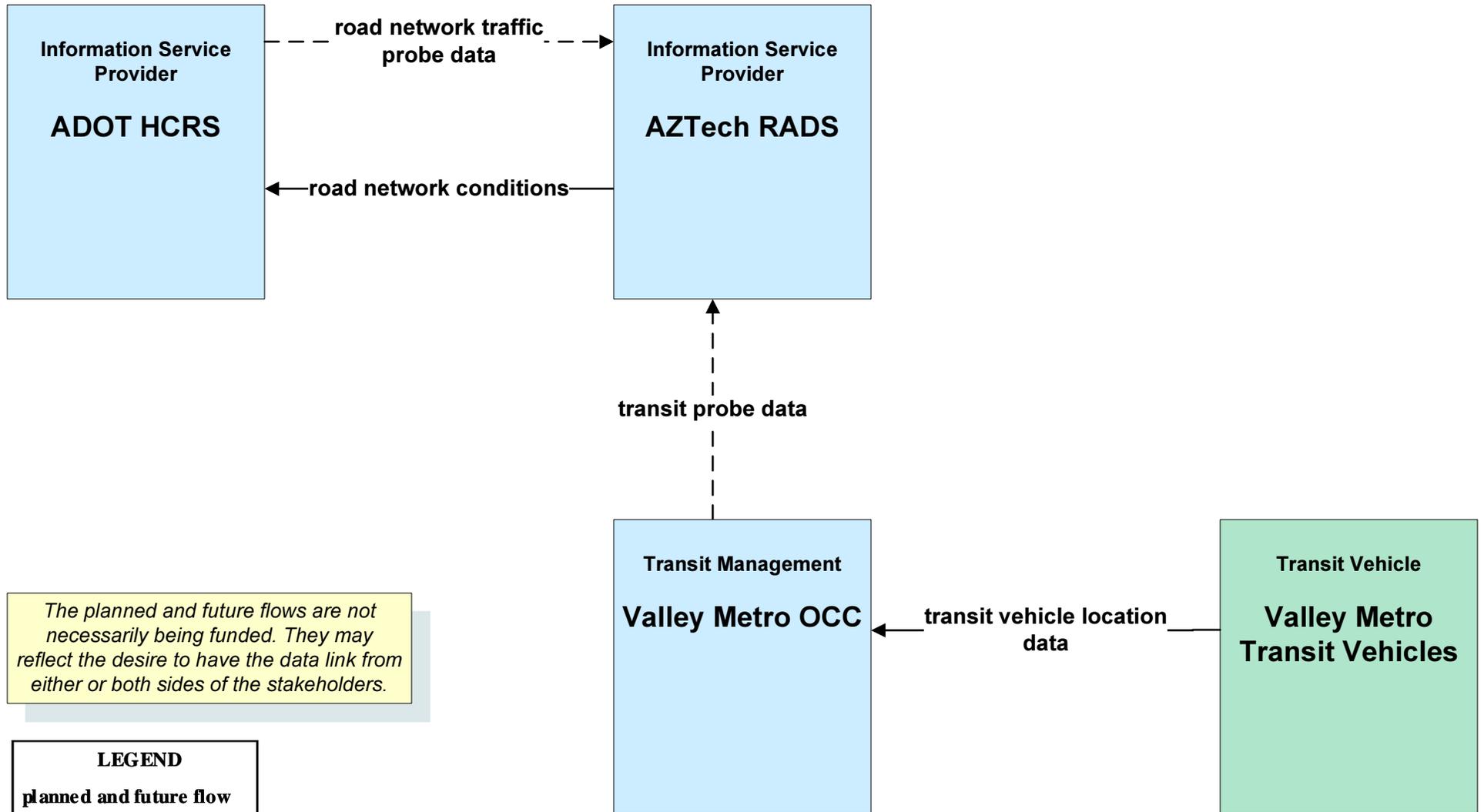
# ATMS01 - Network Surveillance

## Local Cities and Municipalities - Generic

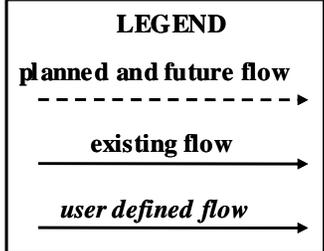


*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*

# ATMS02 – Traffic Probe Surveillance Valley Metro

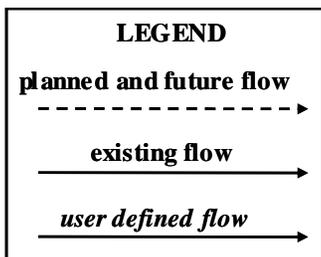
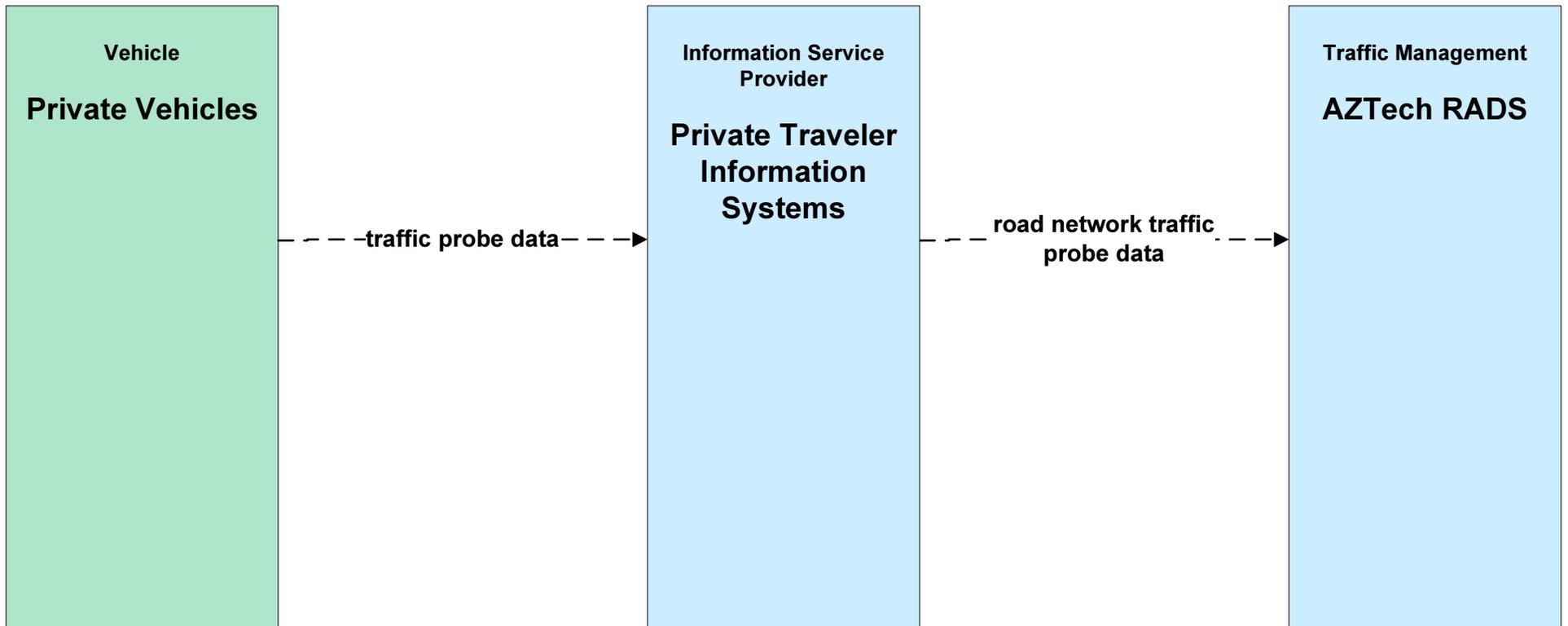


*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*



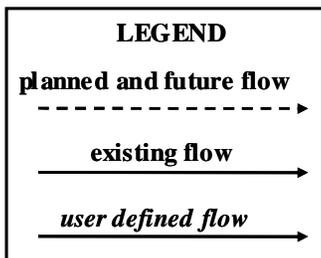
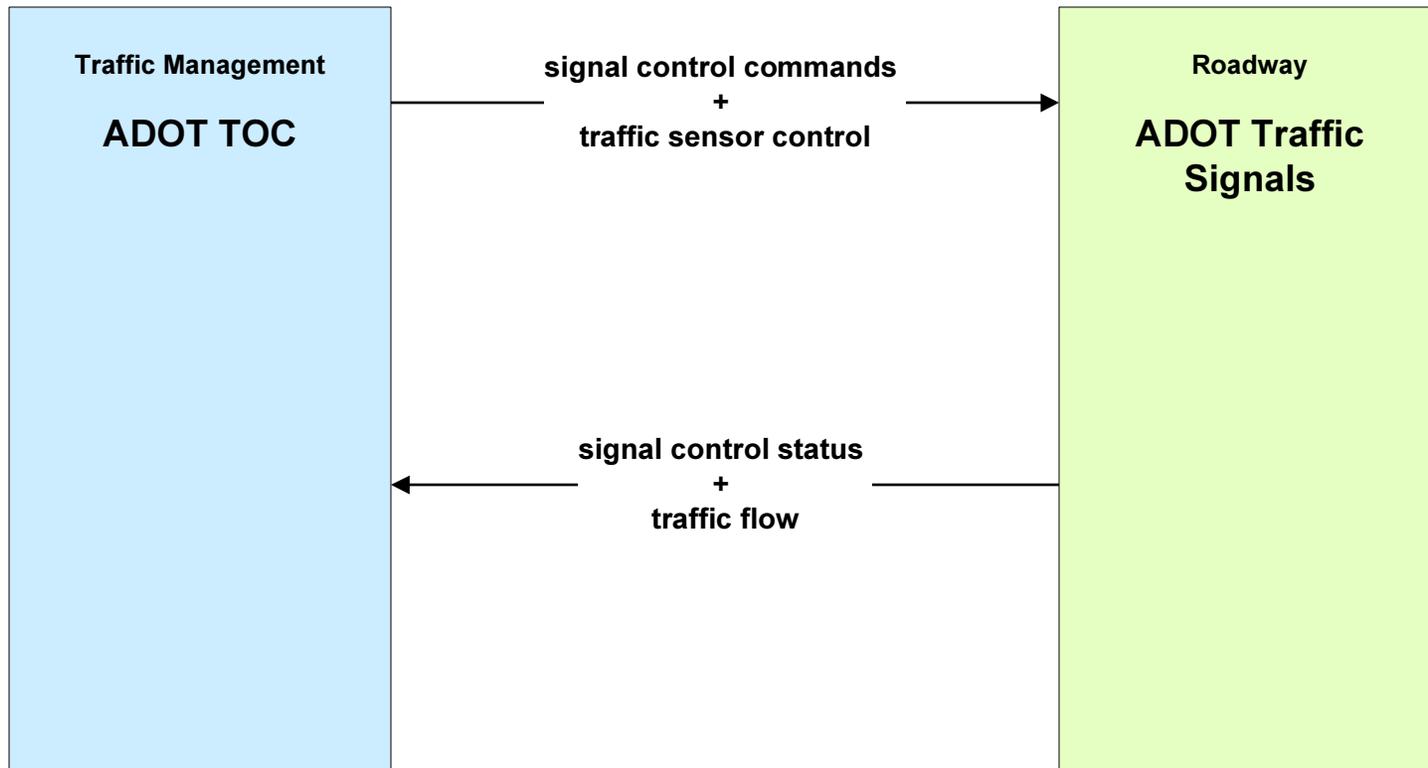
# ATMS02 – Traffic Probe Surveillance

## Traffic Probe Data

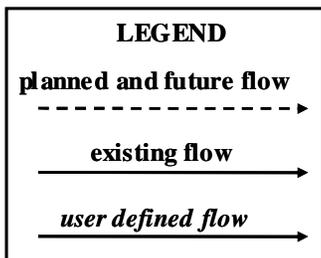
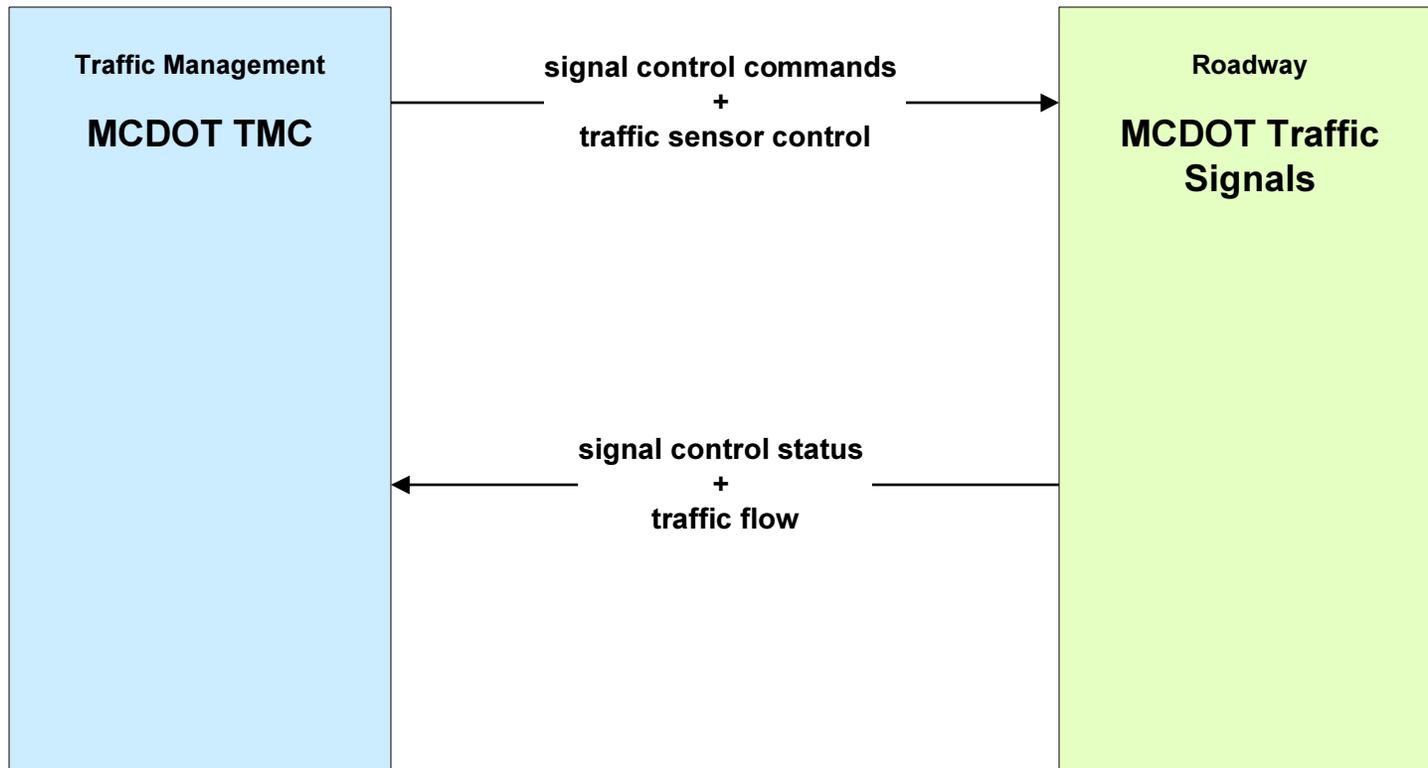


*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*

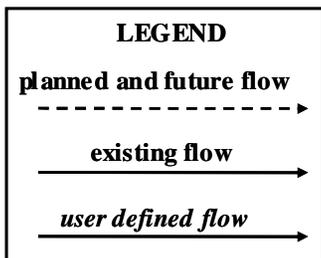
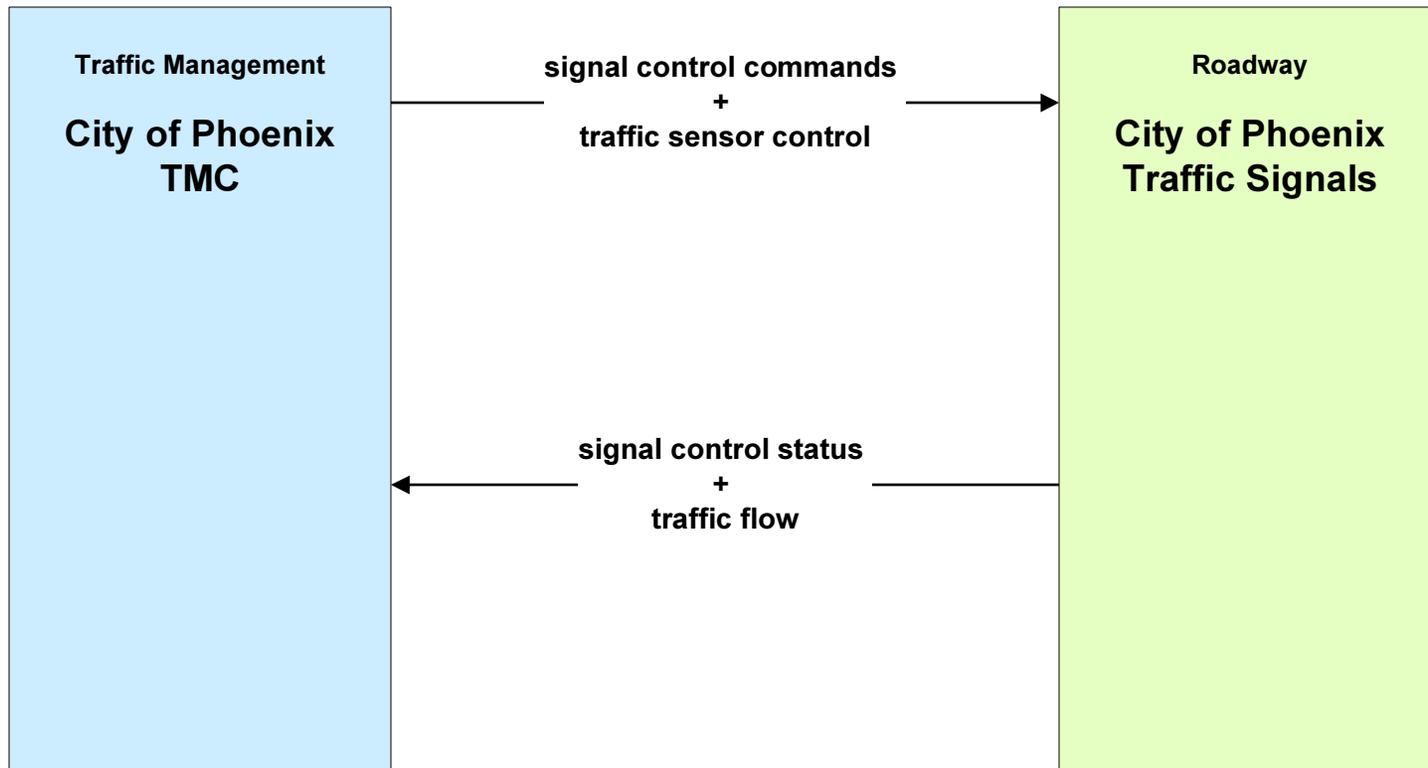
**ATMS03 - Traffic Signal Control  
Arizona DOT**



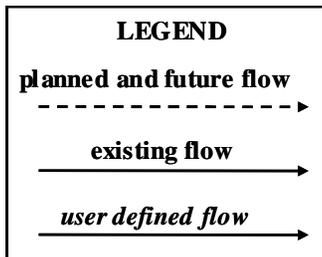
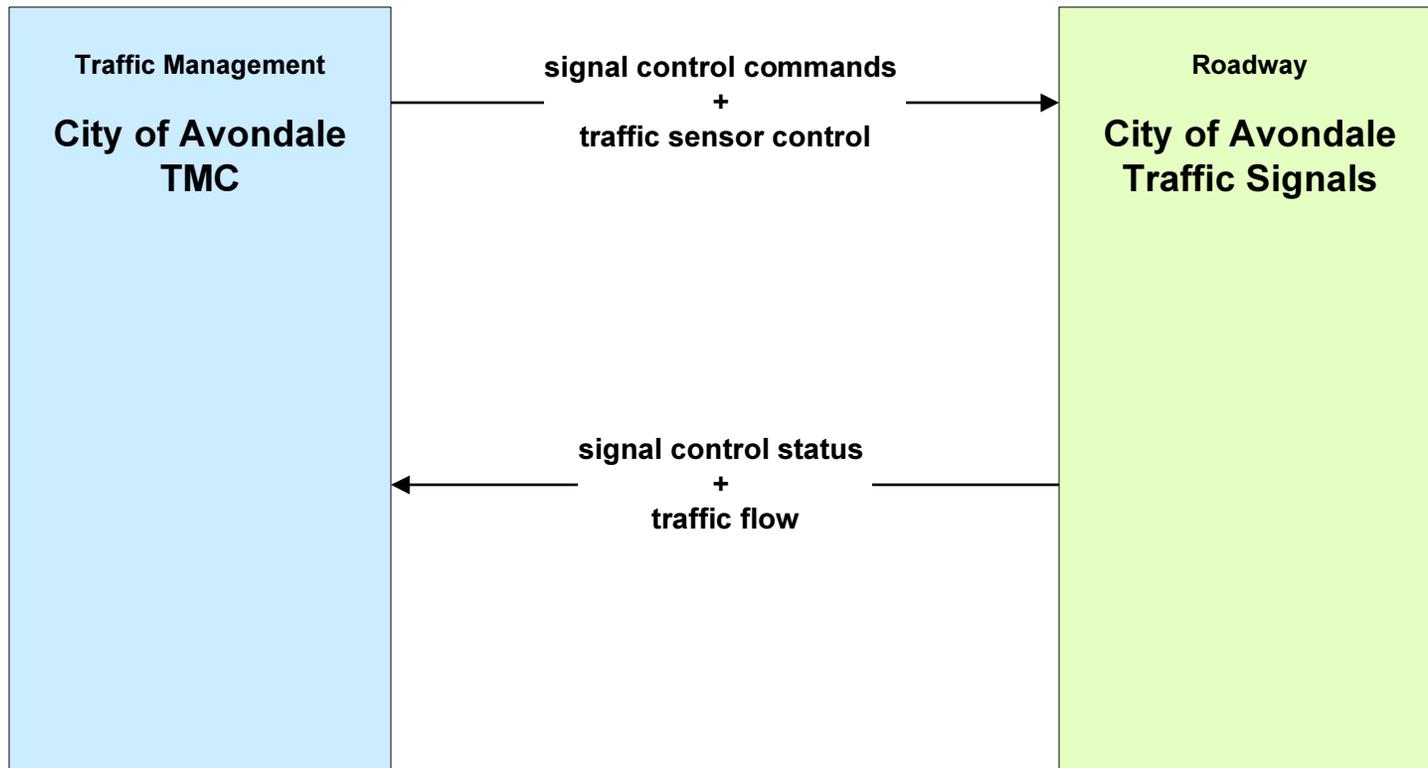
# ATMS03 - Traffic Signal Control Maricopa County



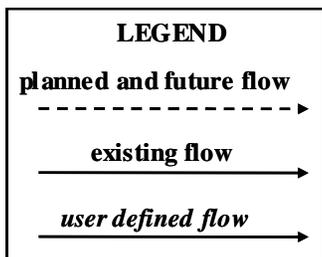
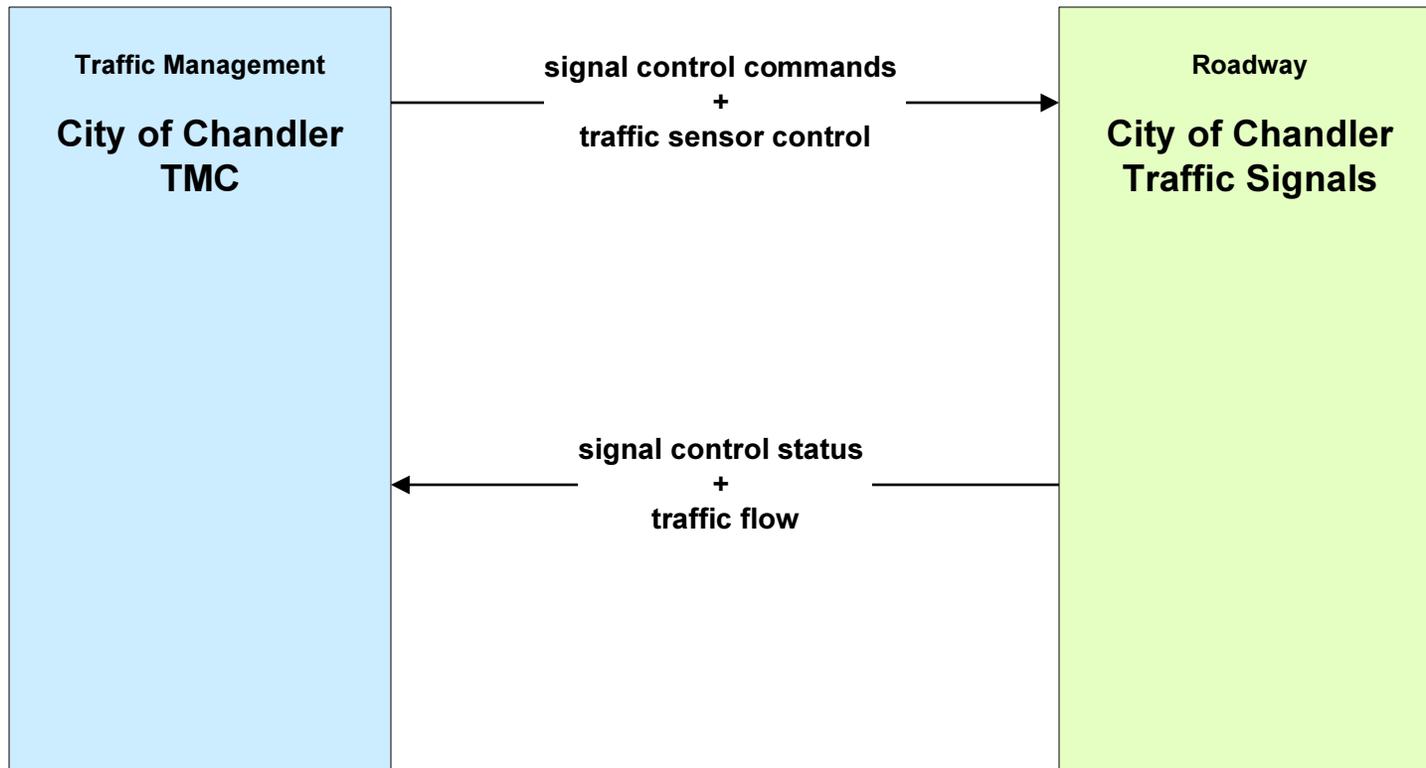
**ATMS03 - Traffic Signal Control  
City of Phoenix**



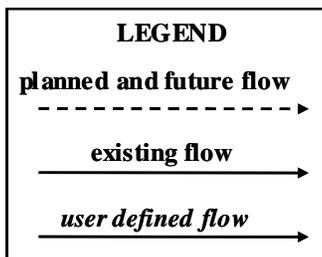
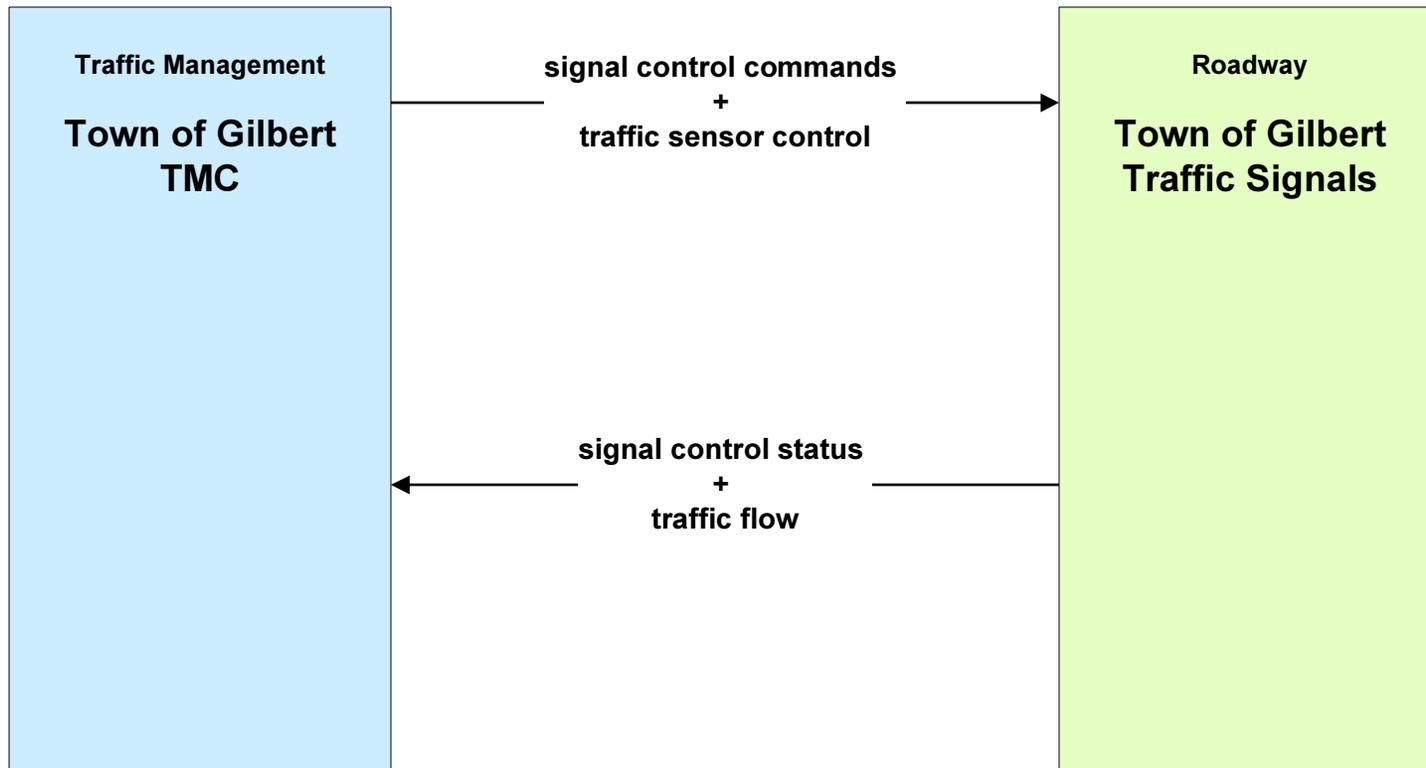
**ATMS03 - Traffic Signal Control  
City of Avondale**



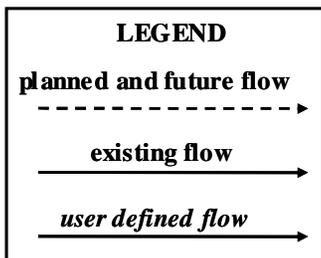
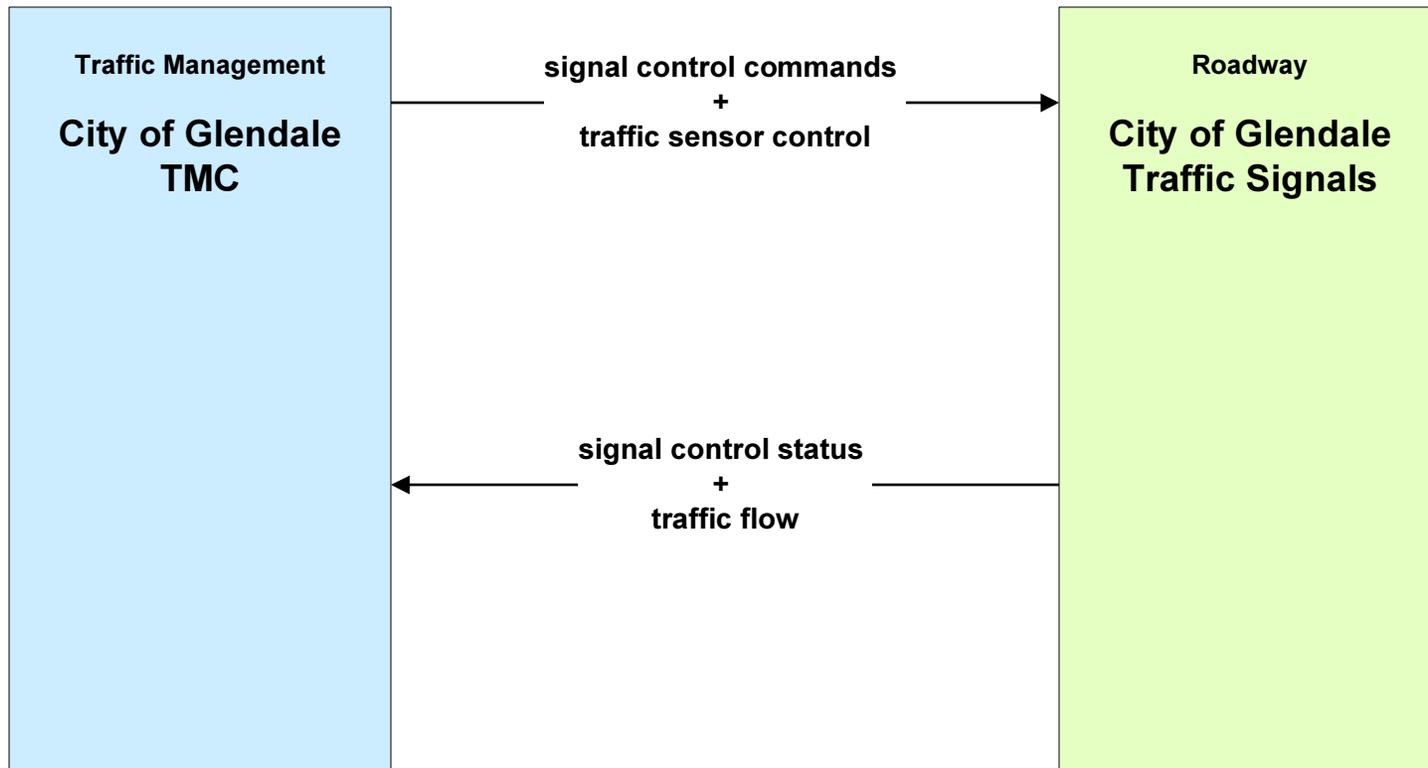
# ATMS03 - Traffic Signal Control City of Chandler



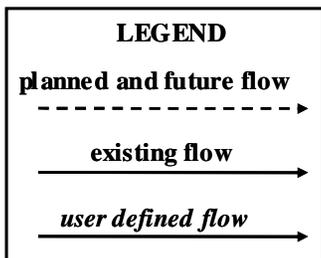
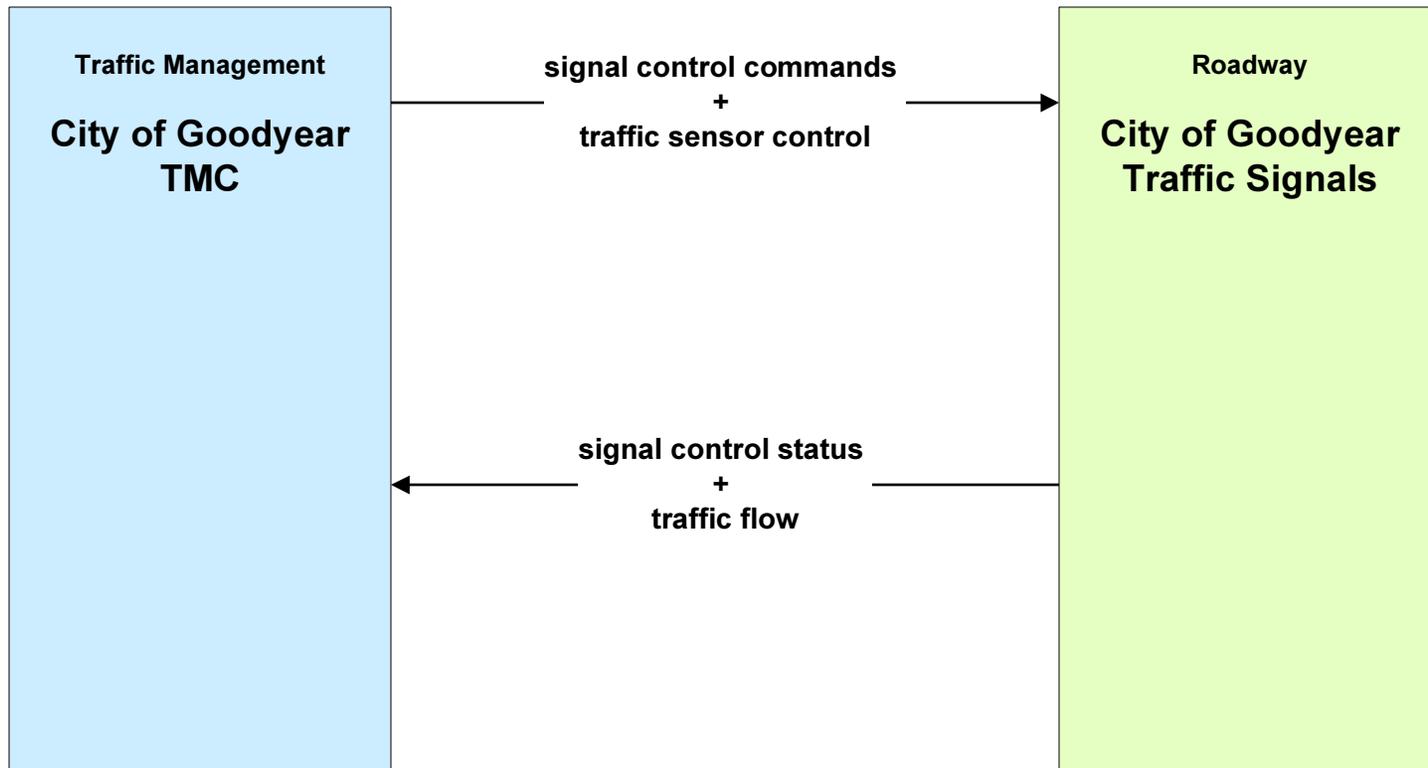
# ATMS03 - Traffic Signal Control Town of Gilbert



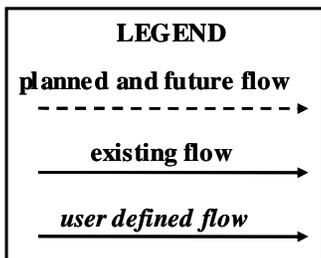
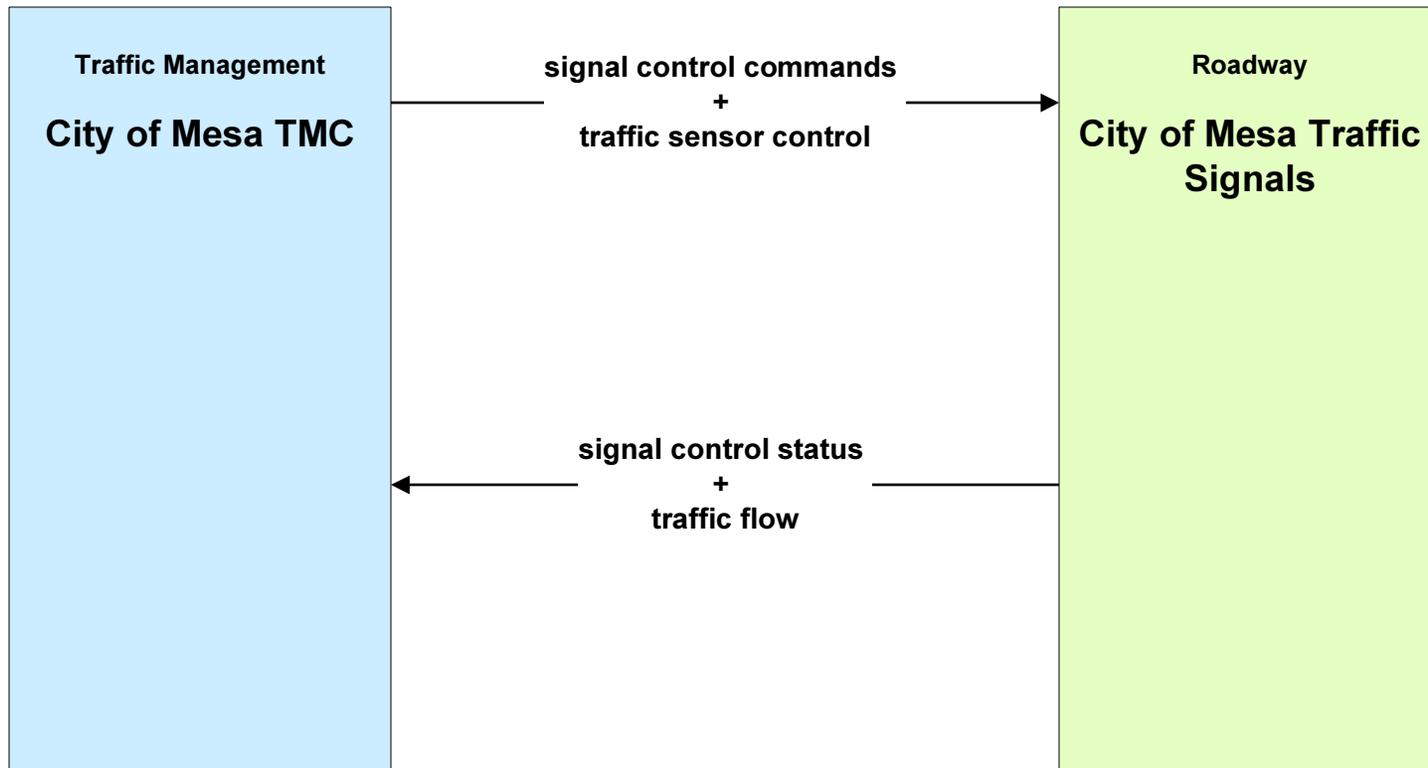
# ATMS03 - Traffic Signal Control City of Glendale



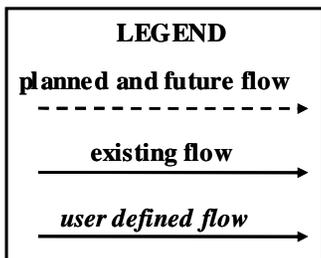
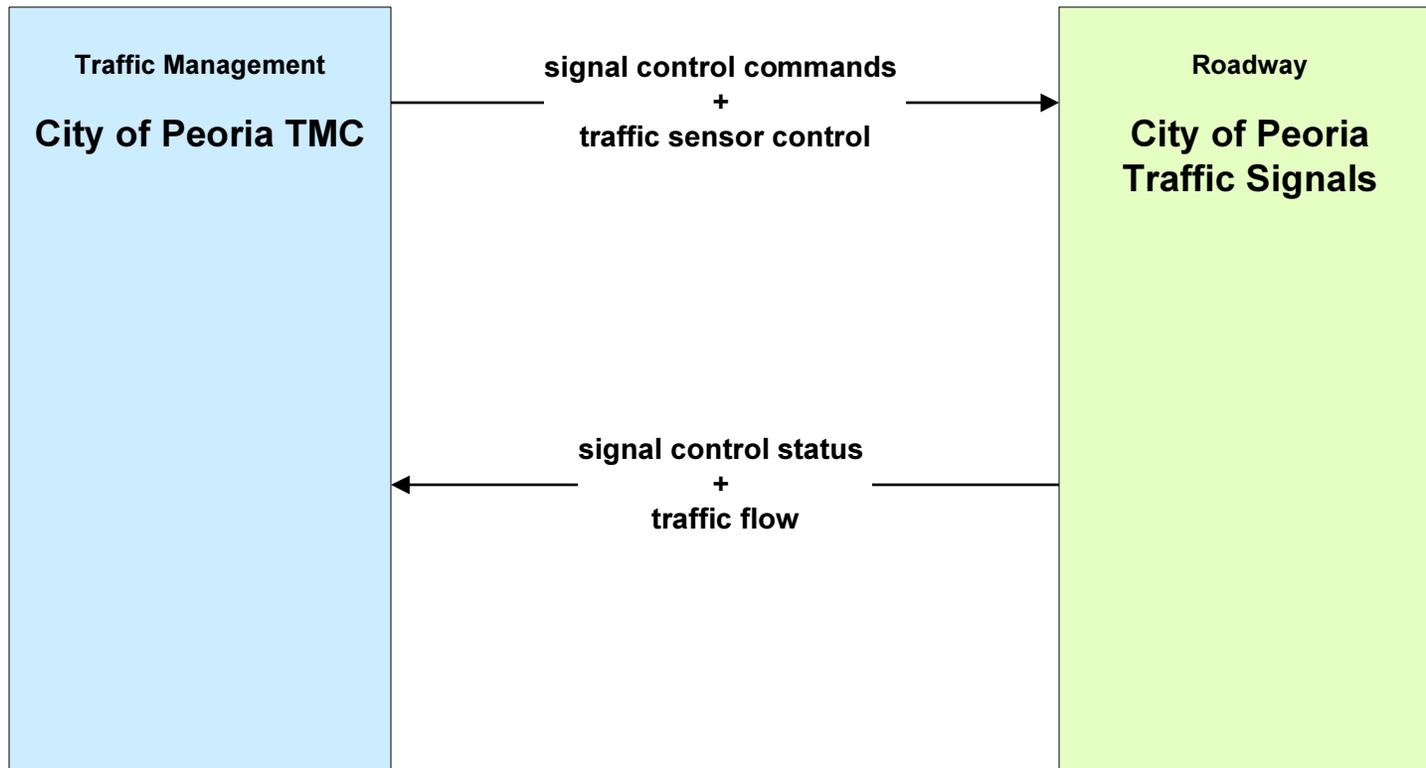
**ATMS03 - Traffic Signal Control  
City of Goodyear**



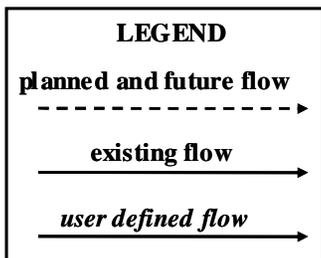
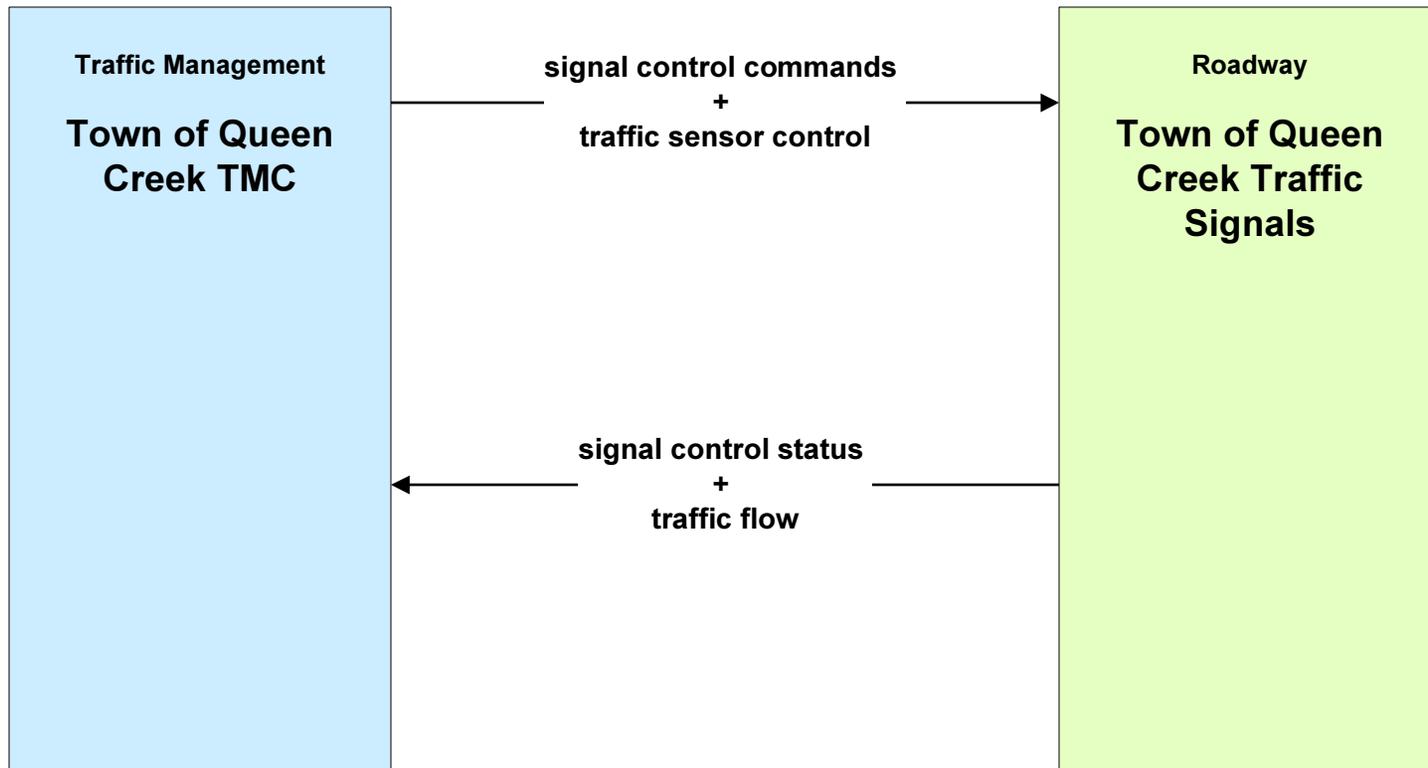
**ATMS03 - Traffic Signal Control  
City of Mesa**



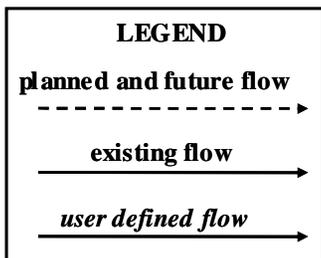
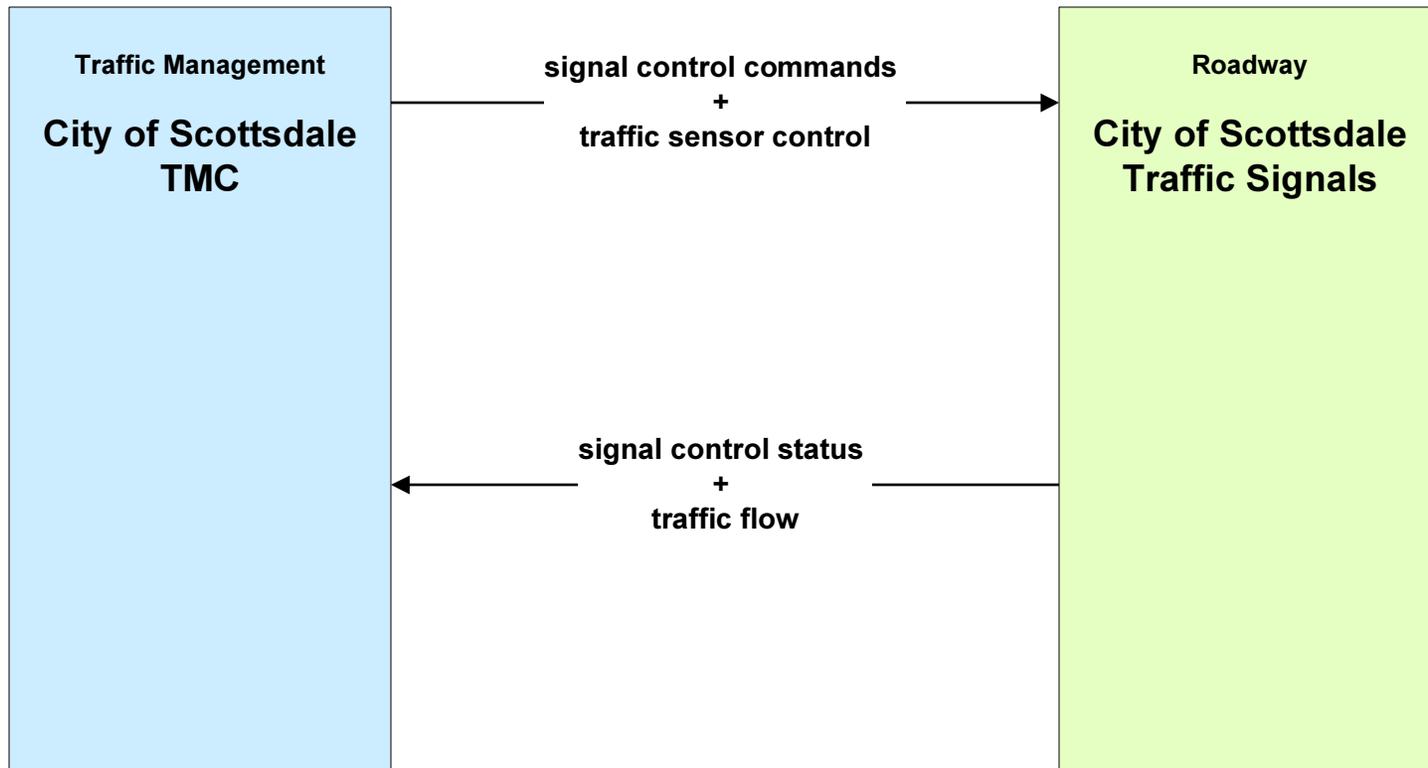
# ATMS03 - Traffic Signal Control City of Peoria



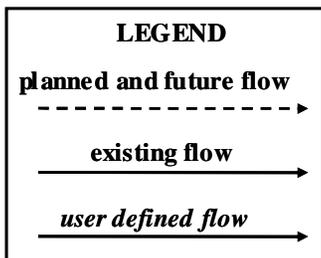
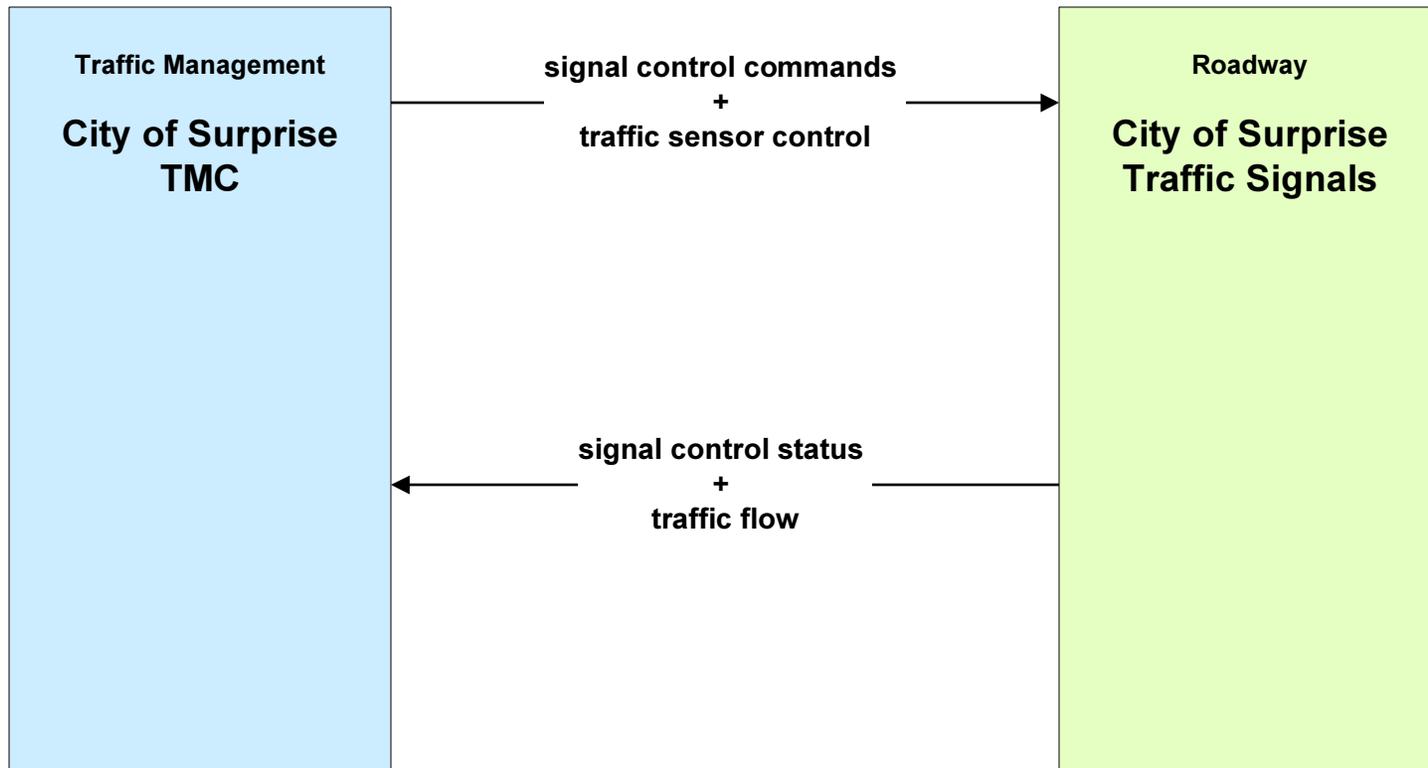
**ATMS03 - Traffic Signal Control  
Town of Queen Creek**



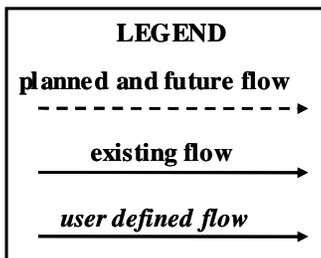
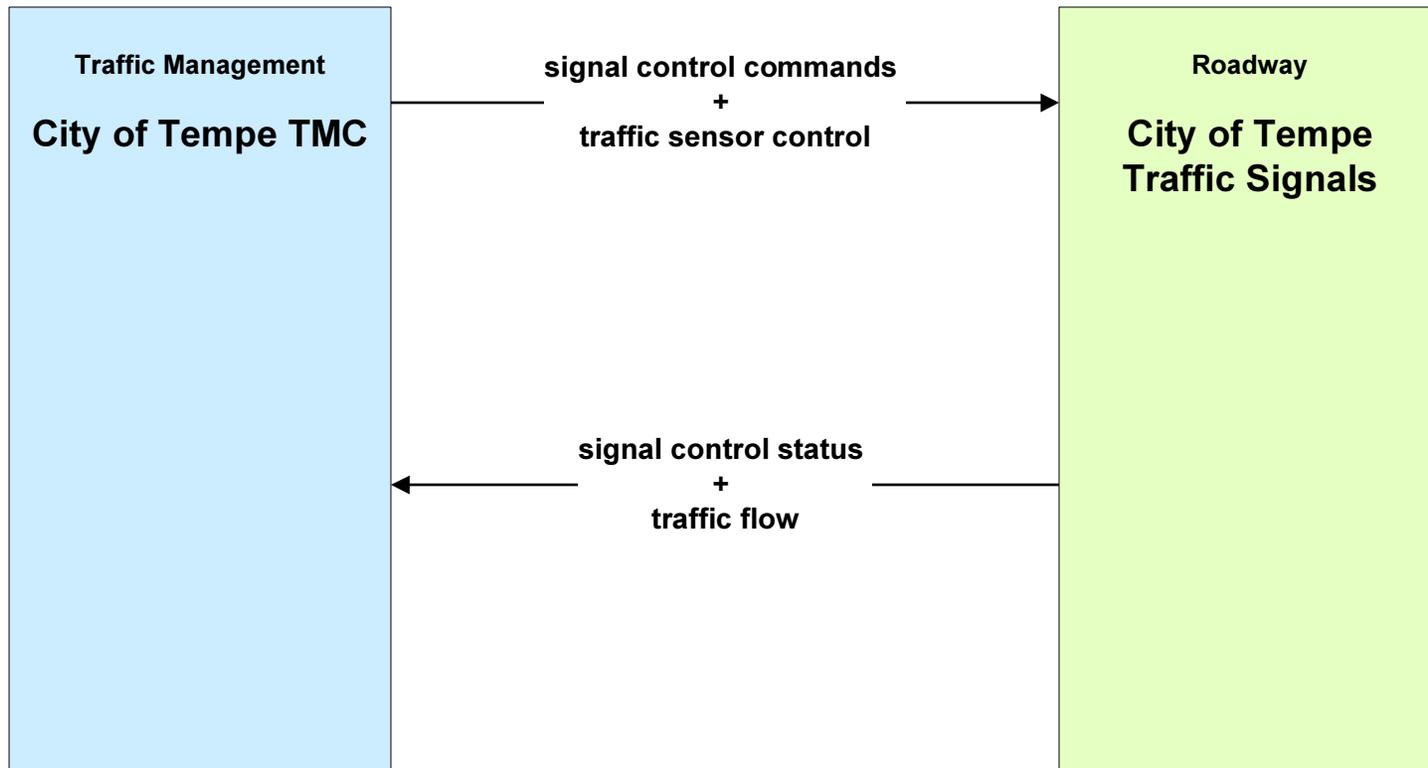
**ATMS03 - Traffic Signal Control  
City of Scottsdale**



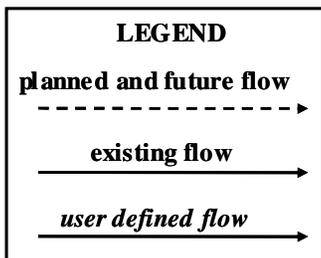
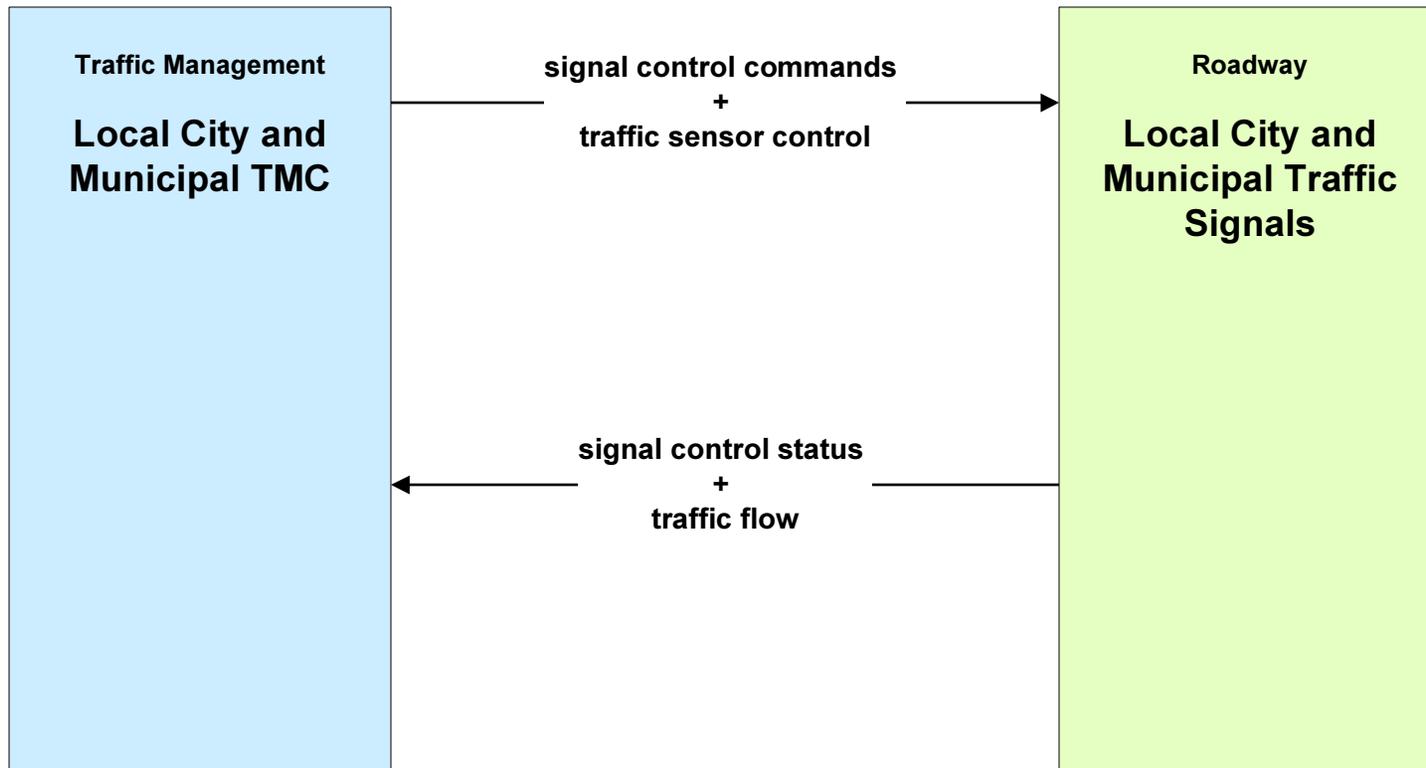
**ATMS03 - Traffic Signal Control  
City of Surprise**



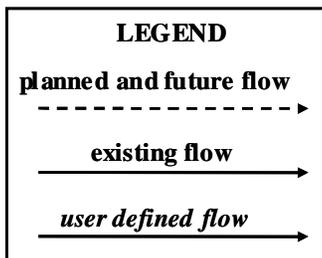
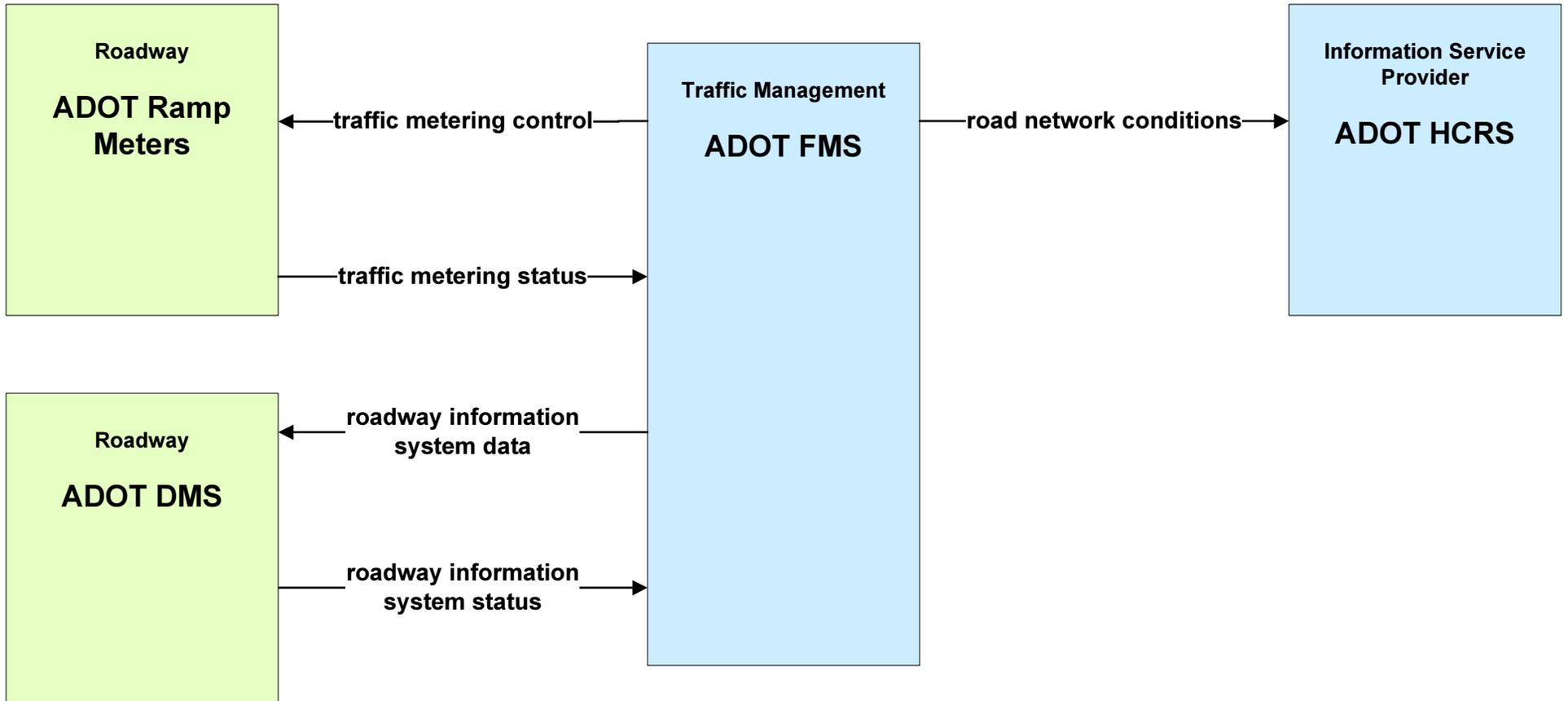
**ATMS03 - Traffic Signal Control  
City of Tempe**



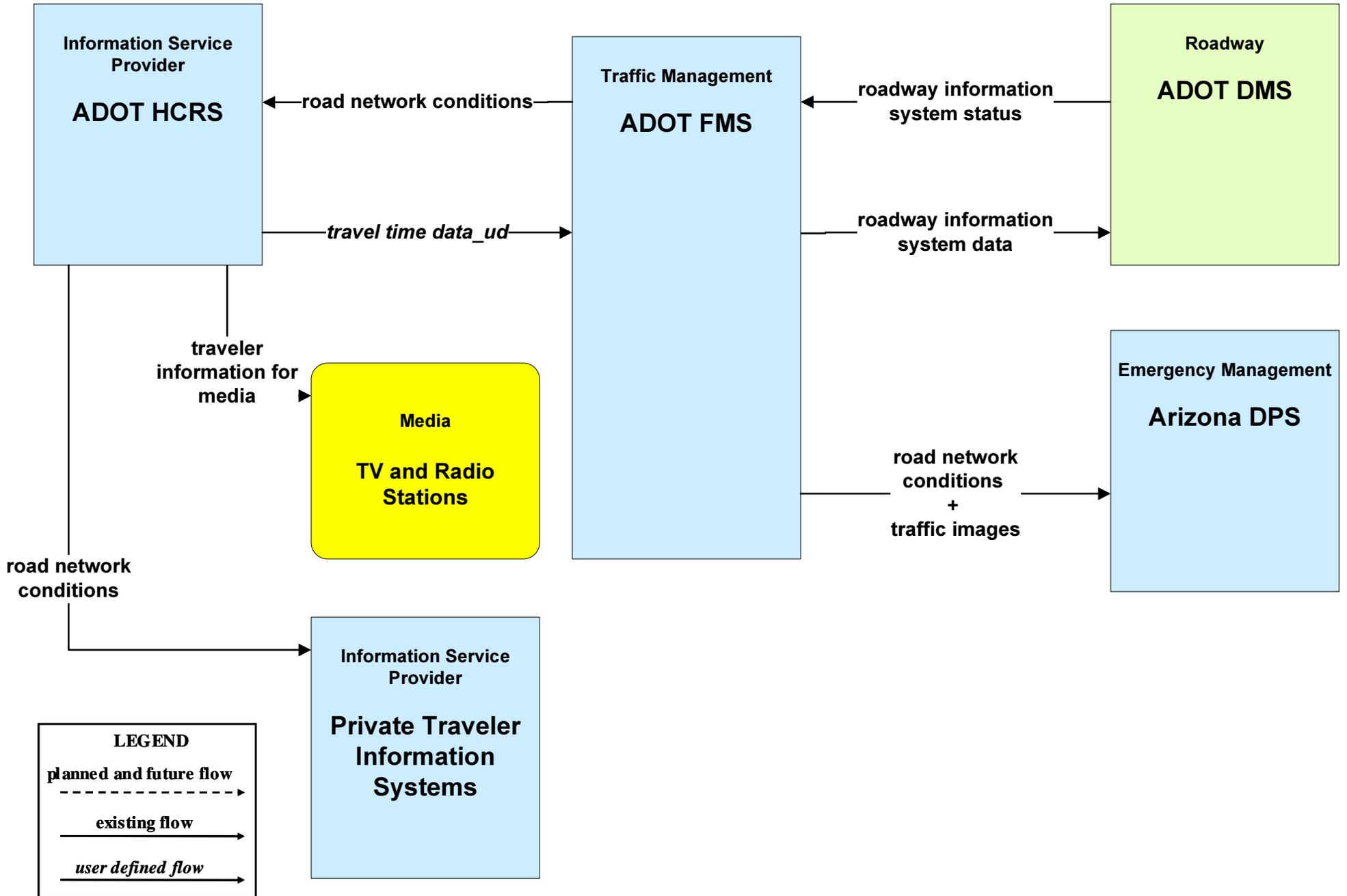
**ATMS03 - Traffic Signal Control**  
**Local Cities and Municipalities - Generic**



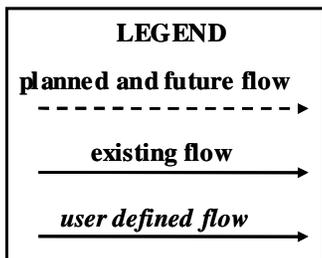
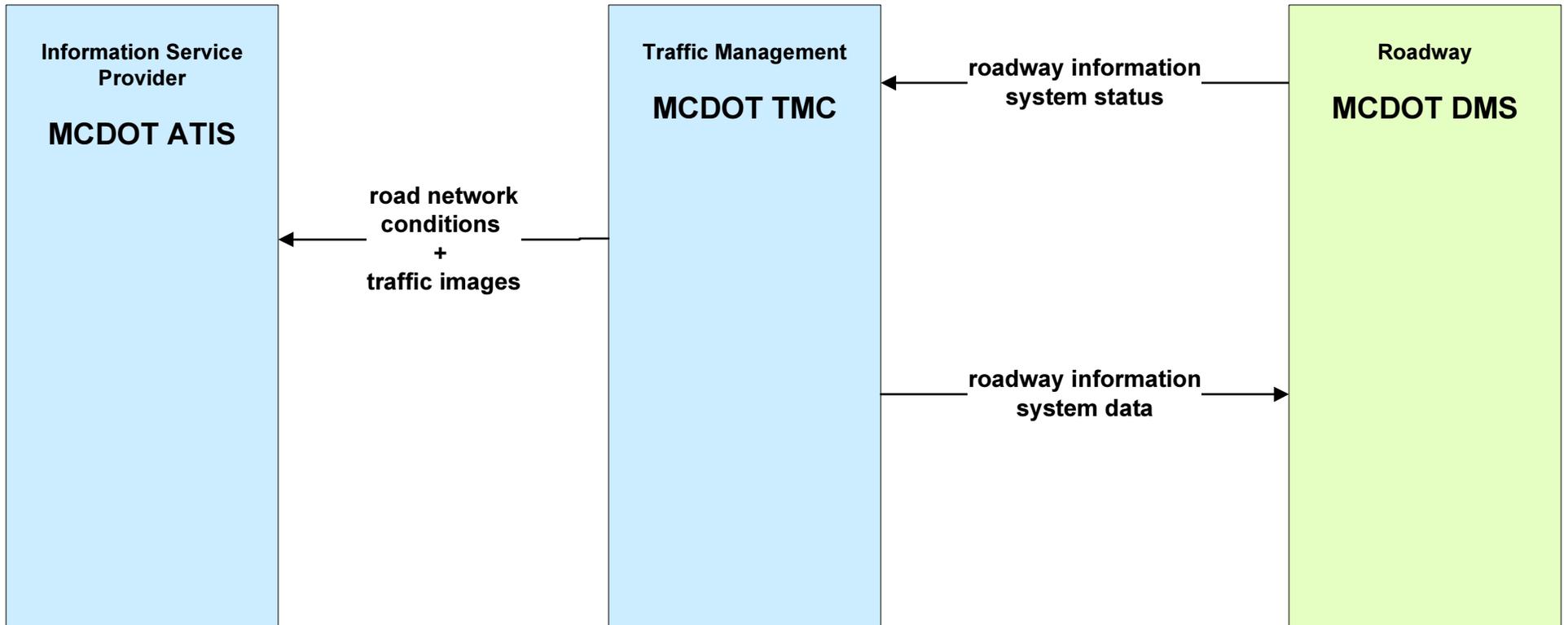
**ATMS04 - Traffic Metering  
Arizona DOT**



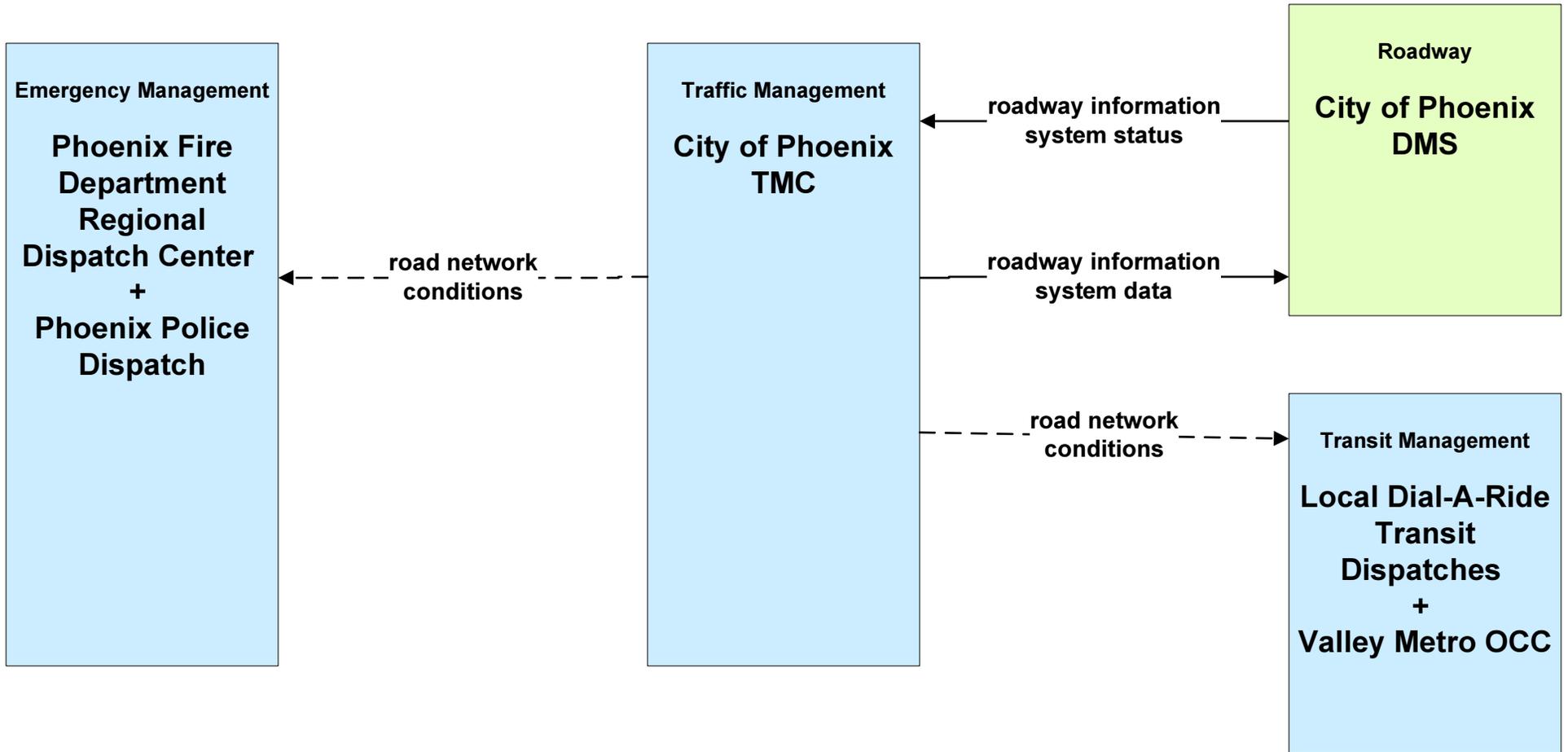
# ATMS06 - Traffic Information Dissemination Arizona DOT



# ATMS06 - Traffic Information Dissemination Maricopa County



# ATMS06 - Traffic Information Dissemination City of Phoenix



**LEGEND**

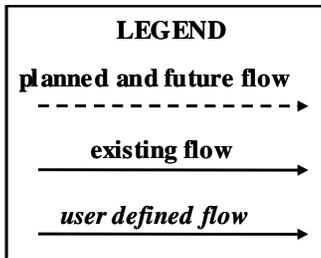
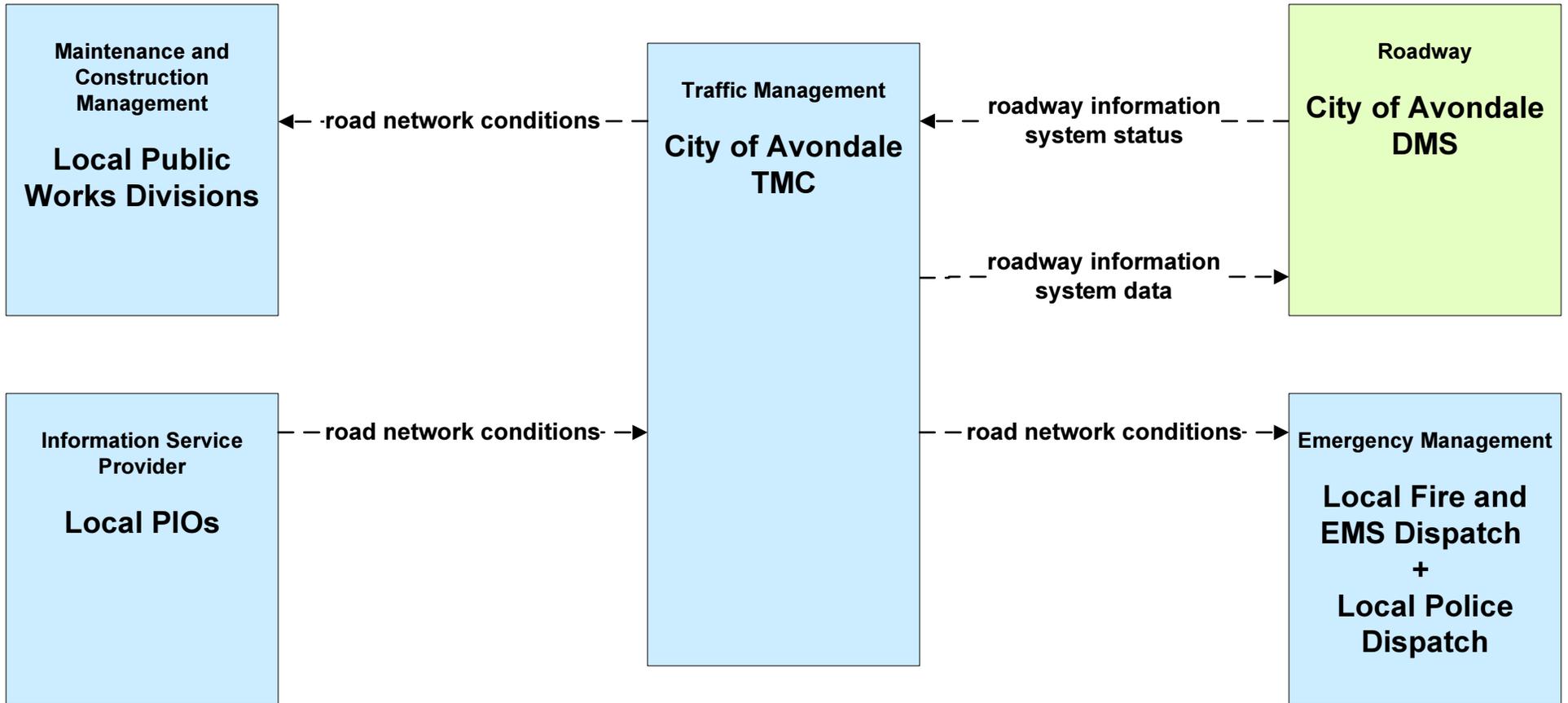
**planned and future flow**  
 - - - - ->

**existing flow**  
 —————>

**user defined flow**  
 —————>

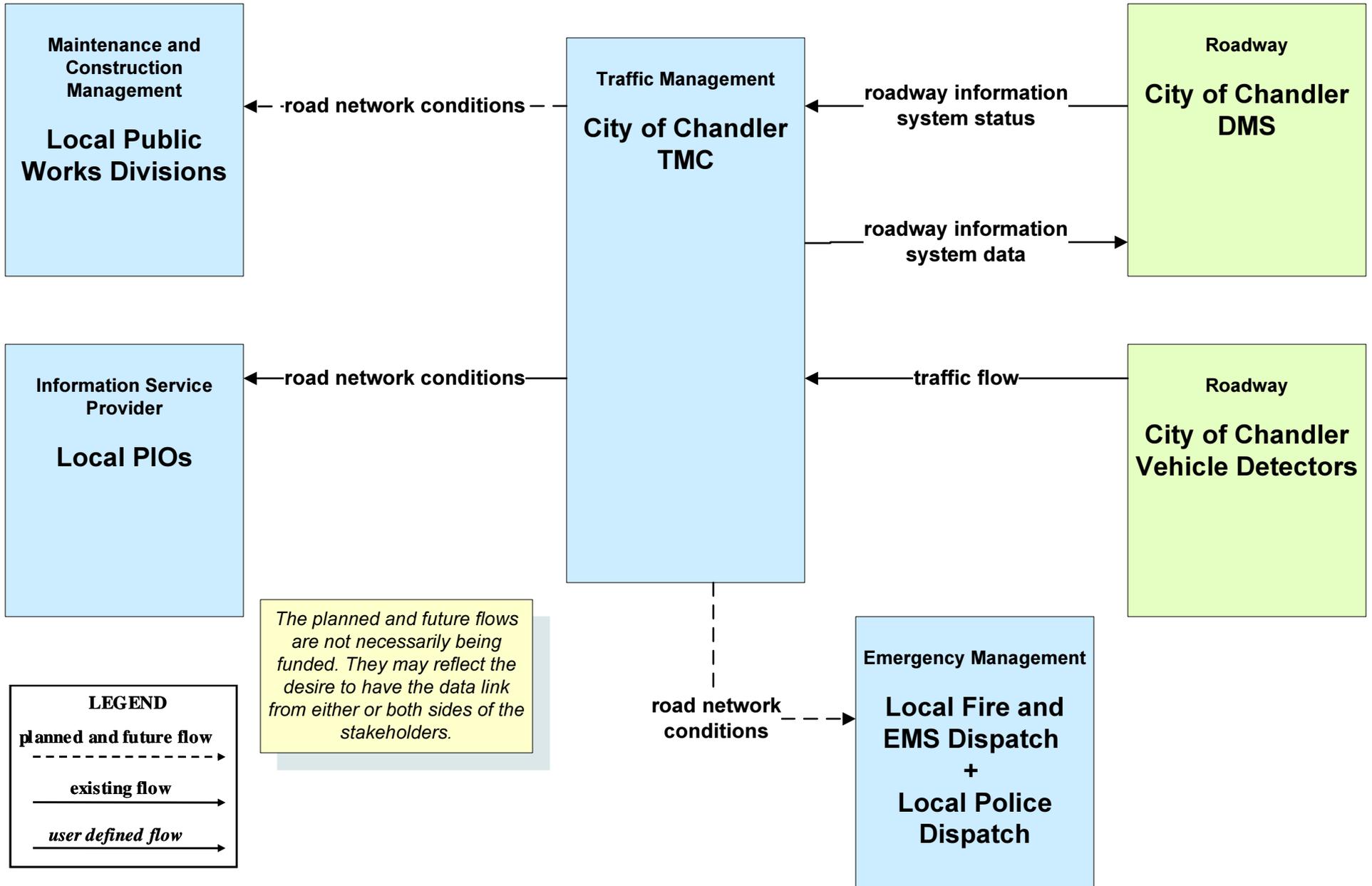
*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*

# ATMS06 - Traffic Information Dissemination City of Avondale

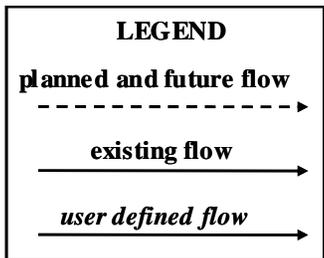
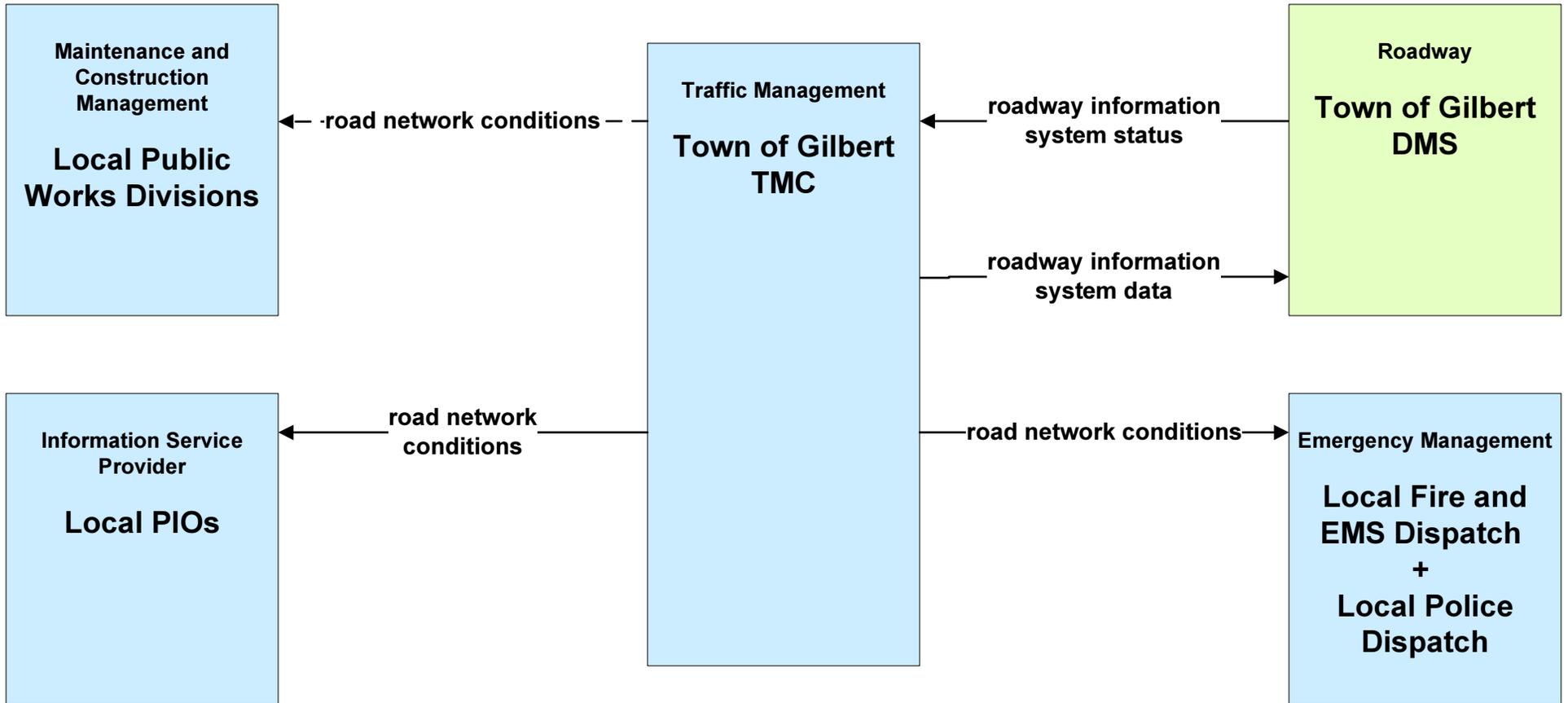


*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*

# ATMS06 - Traffic Information Dissemination City of Chandler

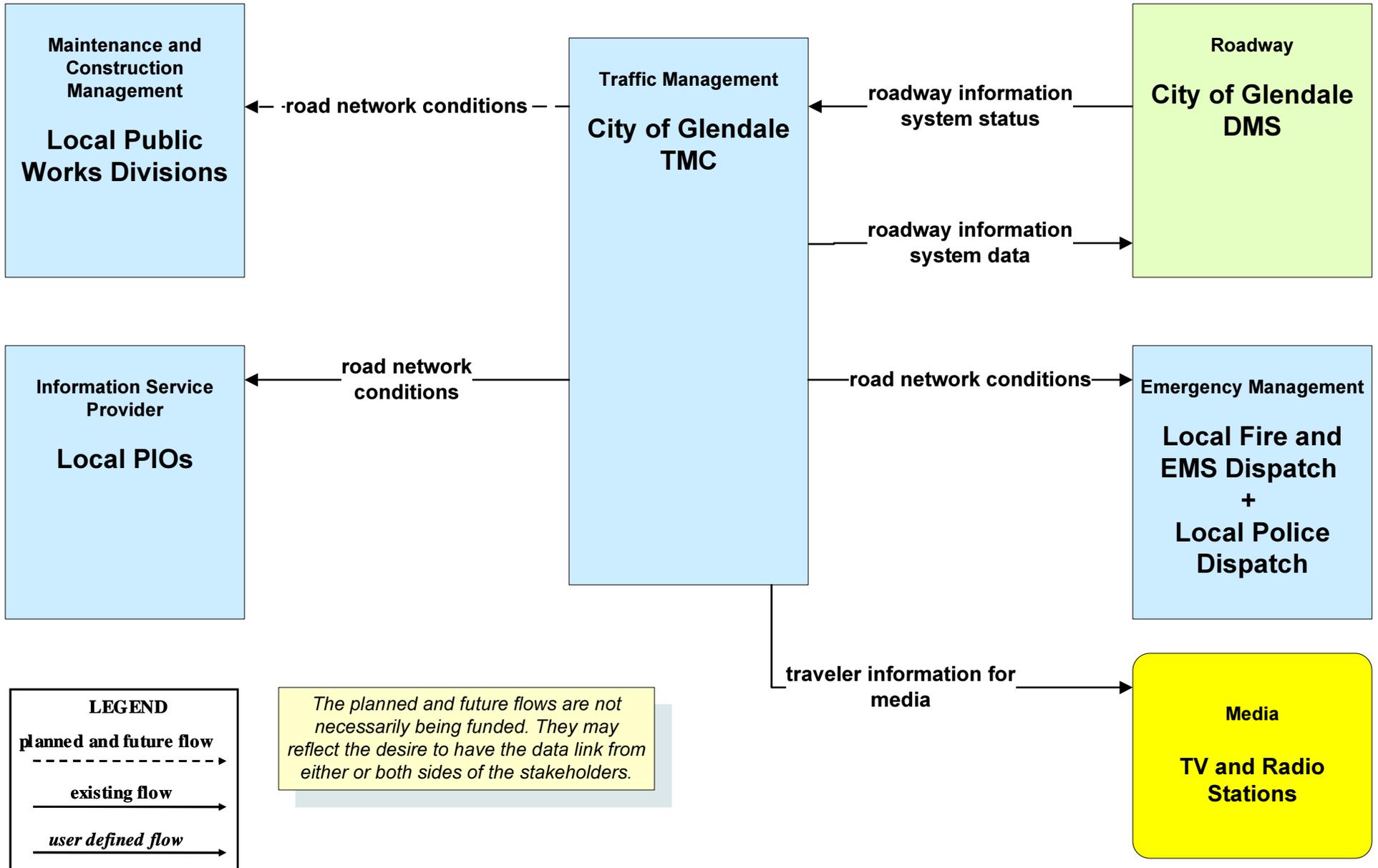


# ATMS06 - Traffic Information Dissemination Town of Gilbert

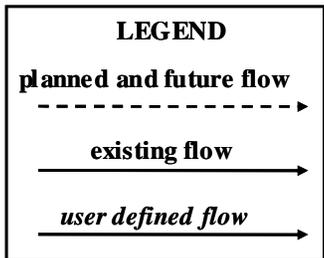
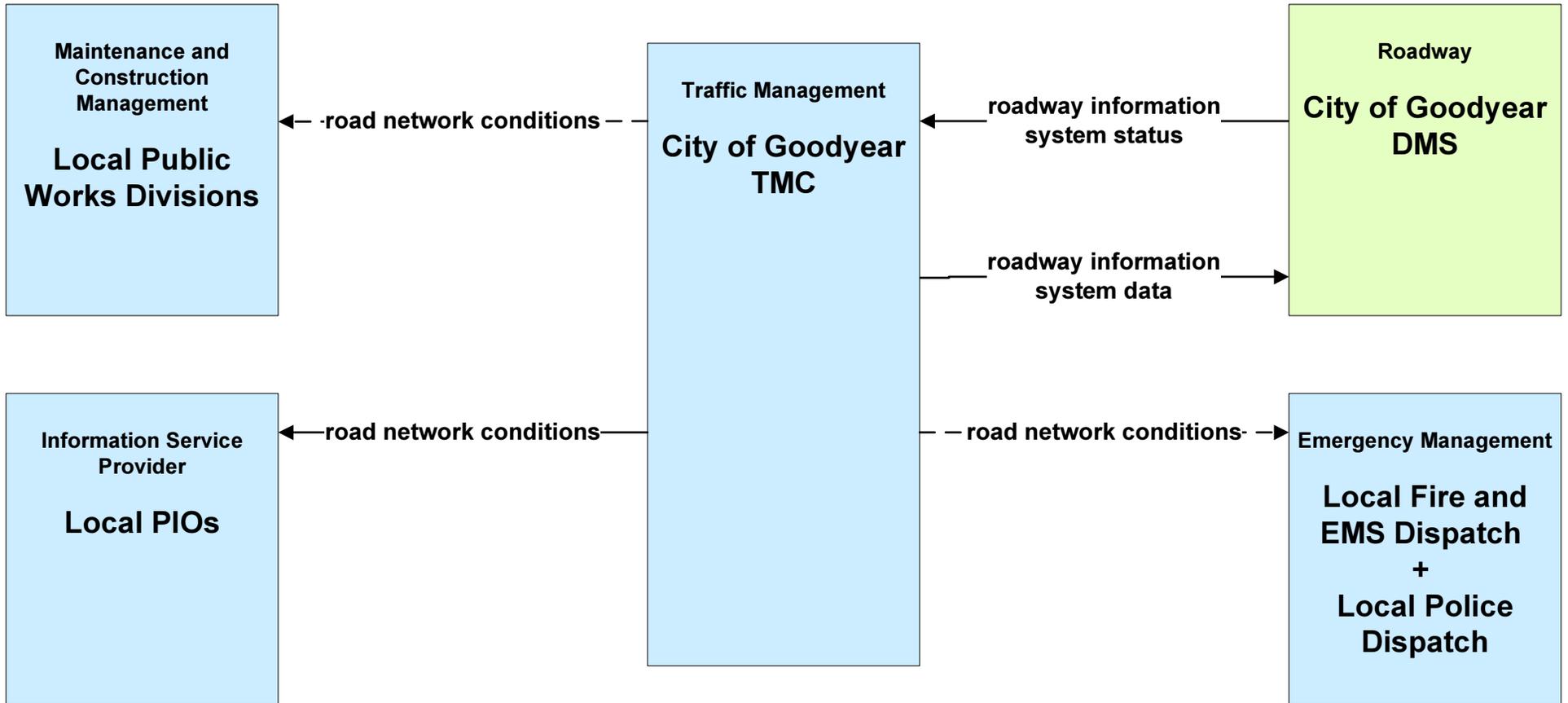


*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*

# ATMS06 - Traffic Information Dissemination City of Glendale

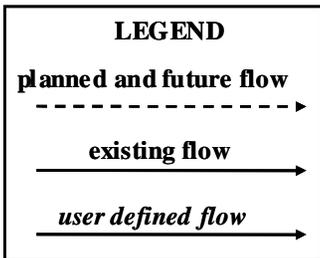
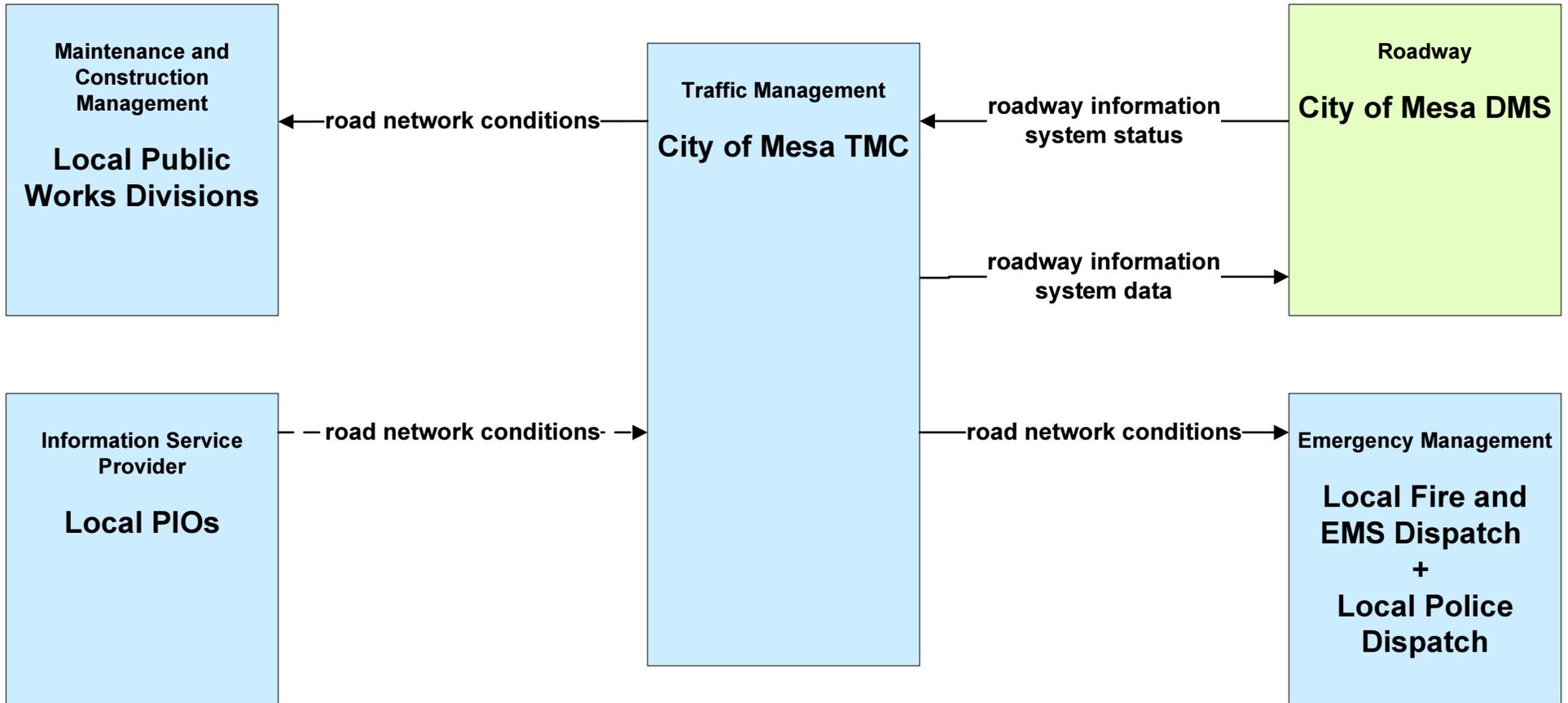


# ATMS06 - Traffic Information Dissemination City of Goodyear



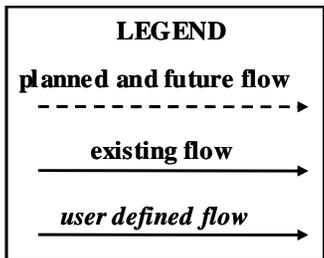
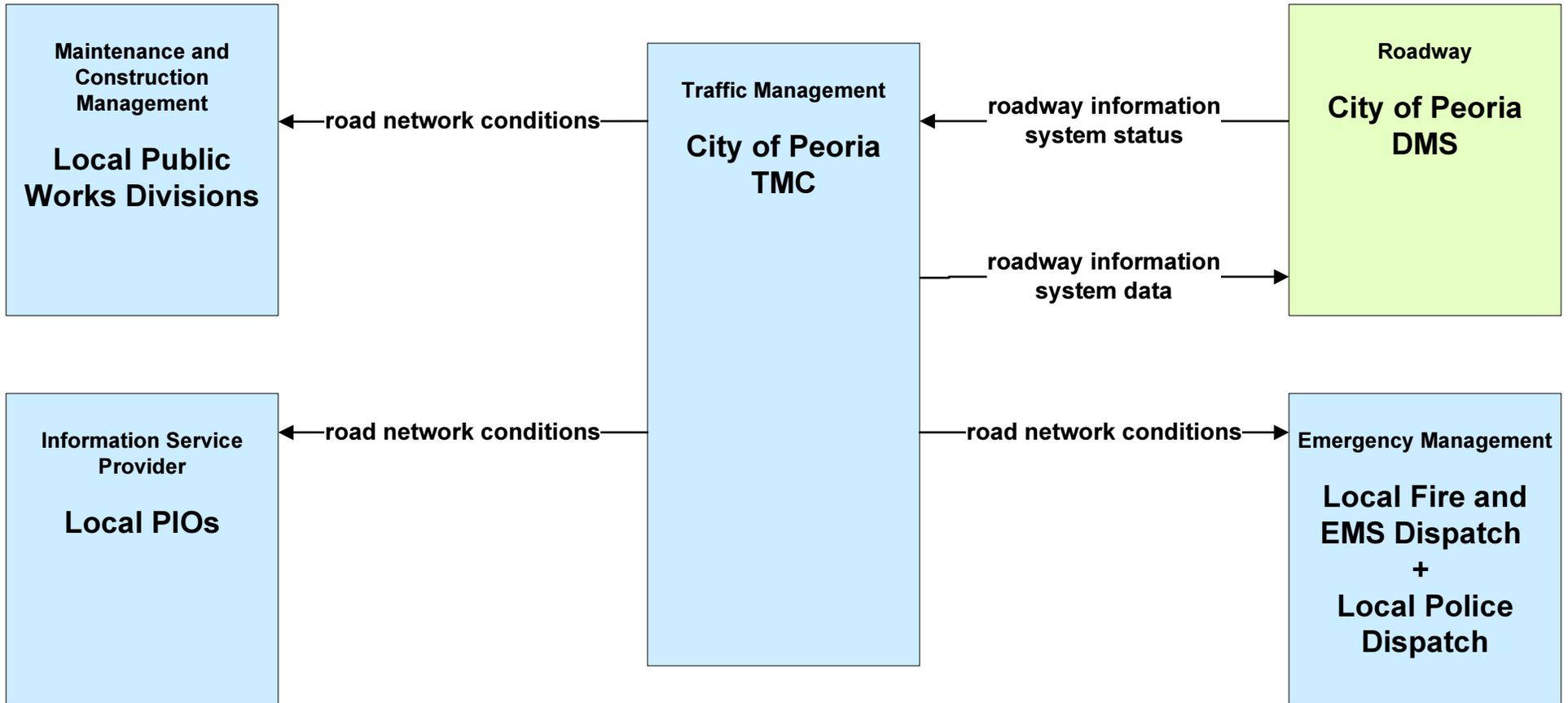
*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*

# ATMS06 - Traffic Information Dissemination City of Mesa



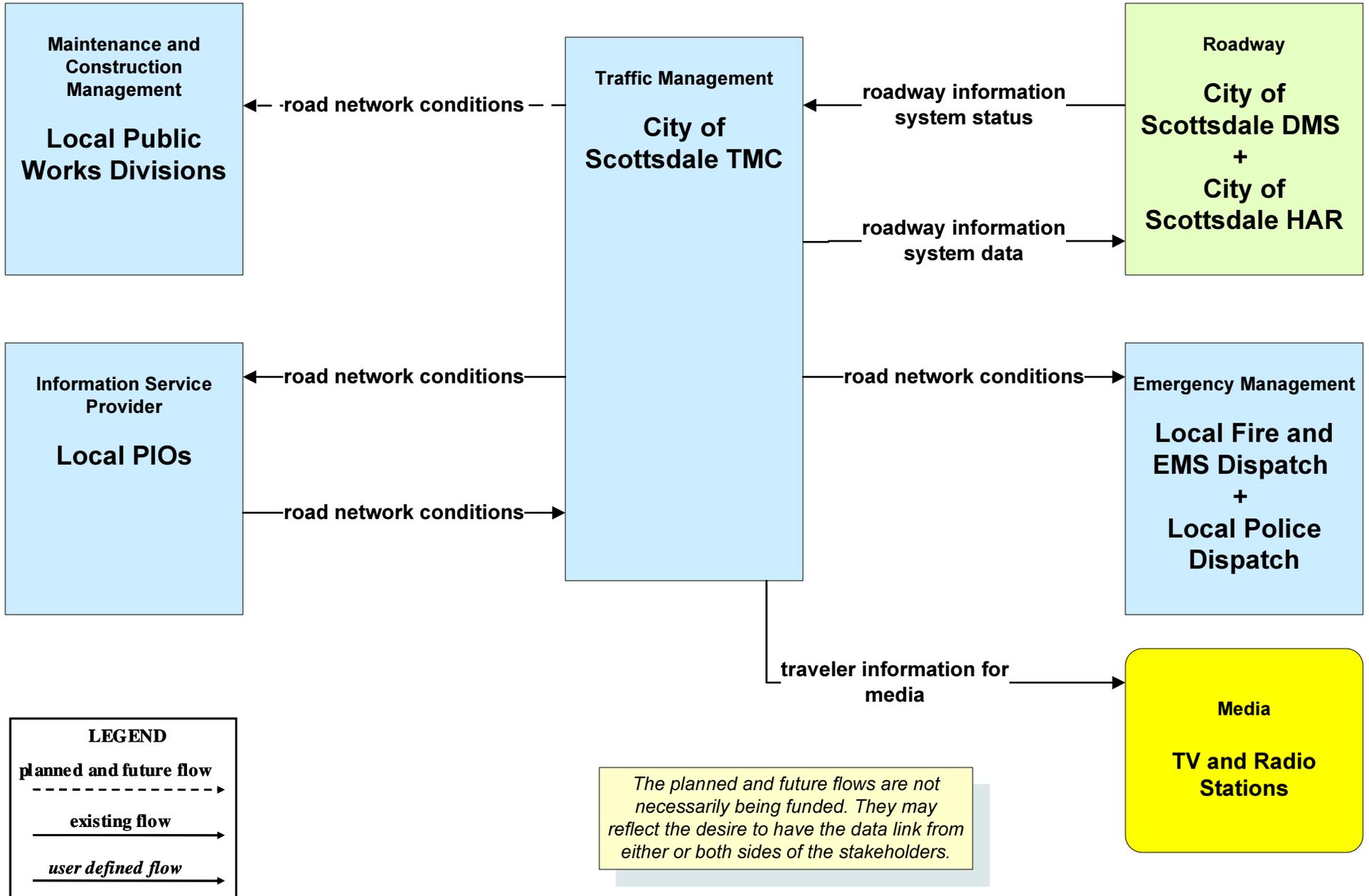
*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*

# ATMS06 - Traffic Information Dissemination City of Peoria

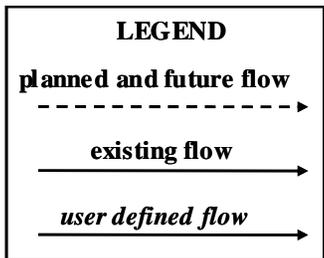
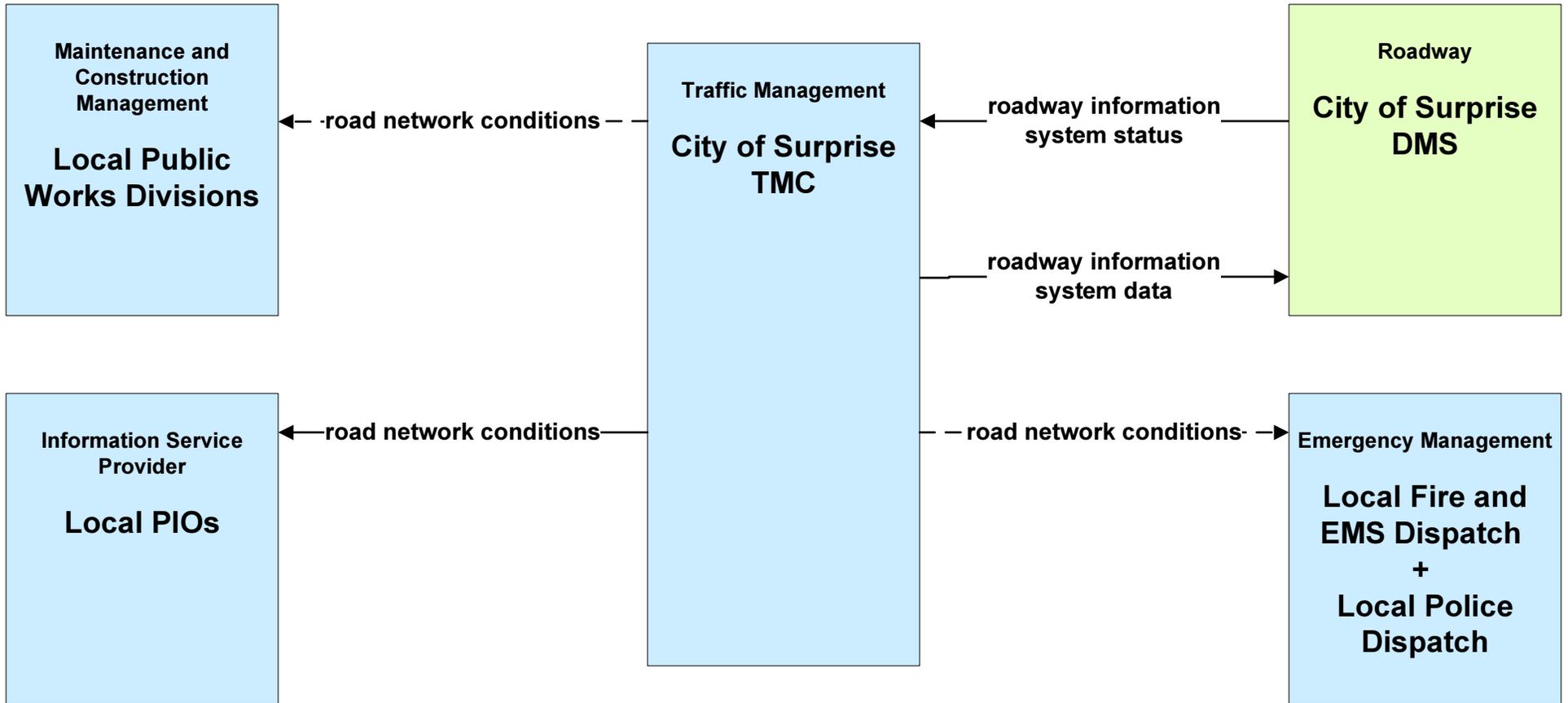


*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*

# ATMS06 - Traffic Information Dissemination City of Scottsdale

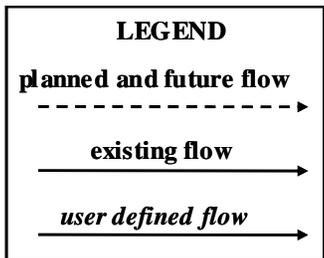
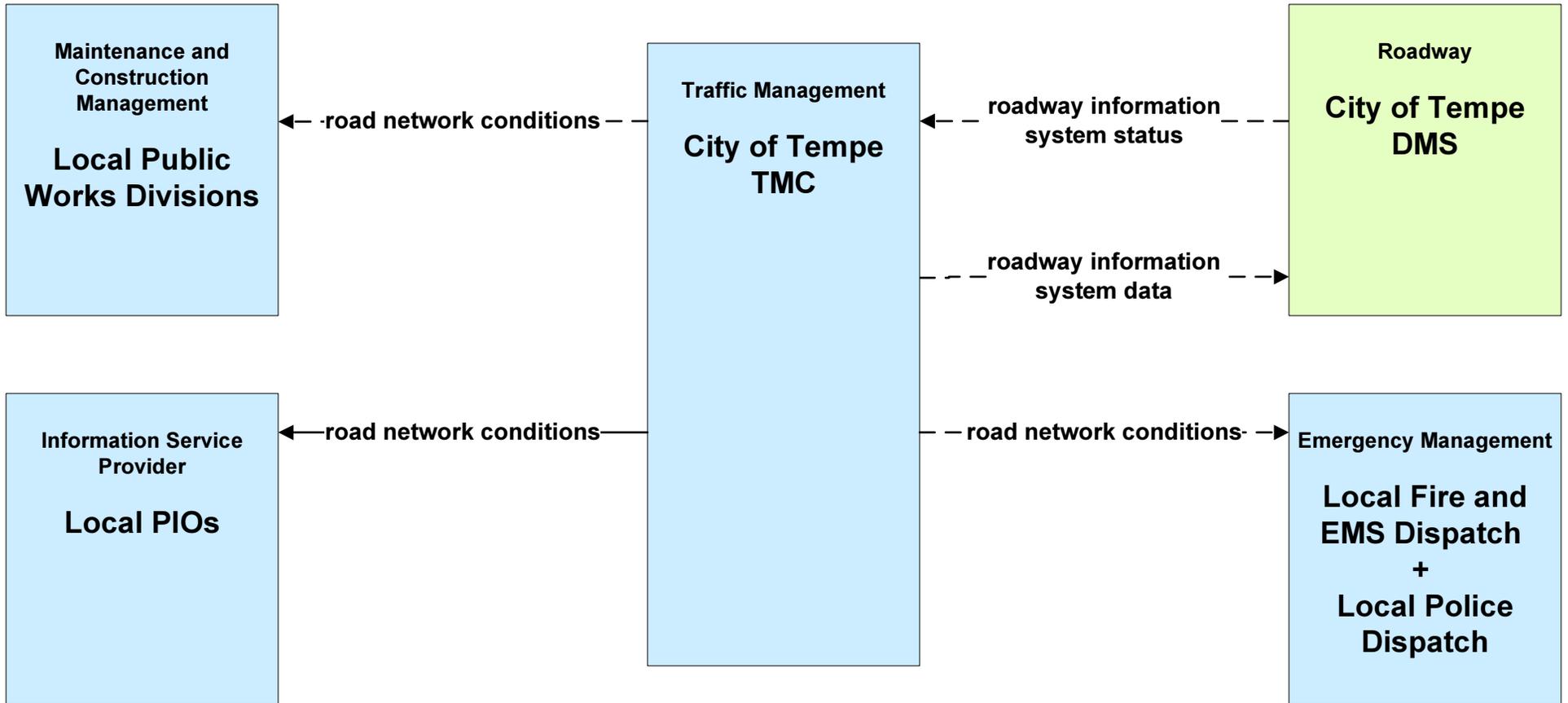


# ATMS06 - Traffic Information Dissemination City of Surprise



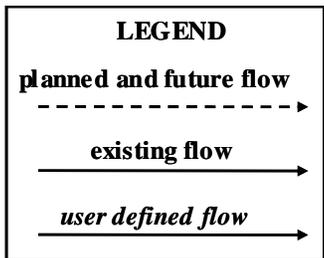
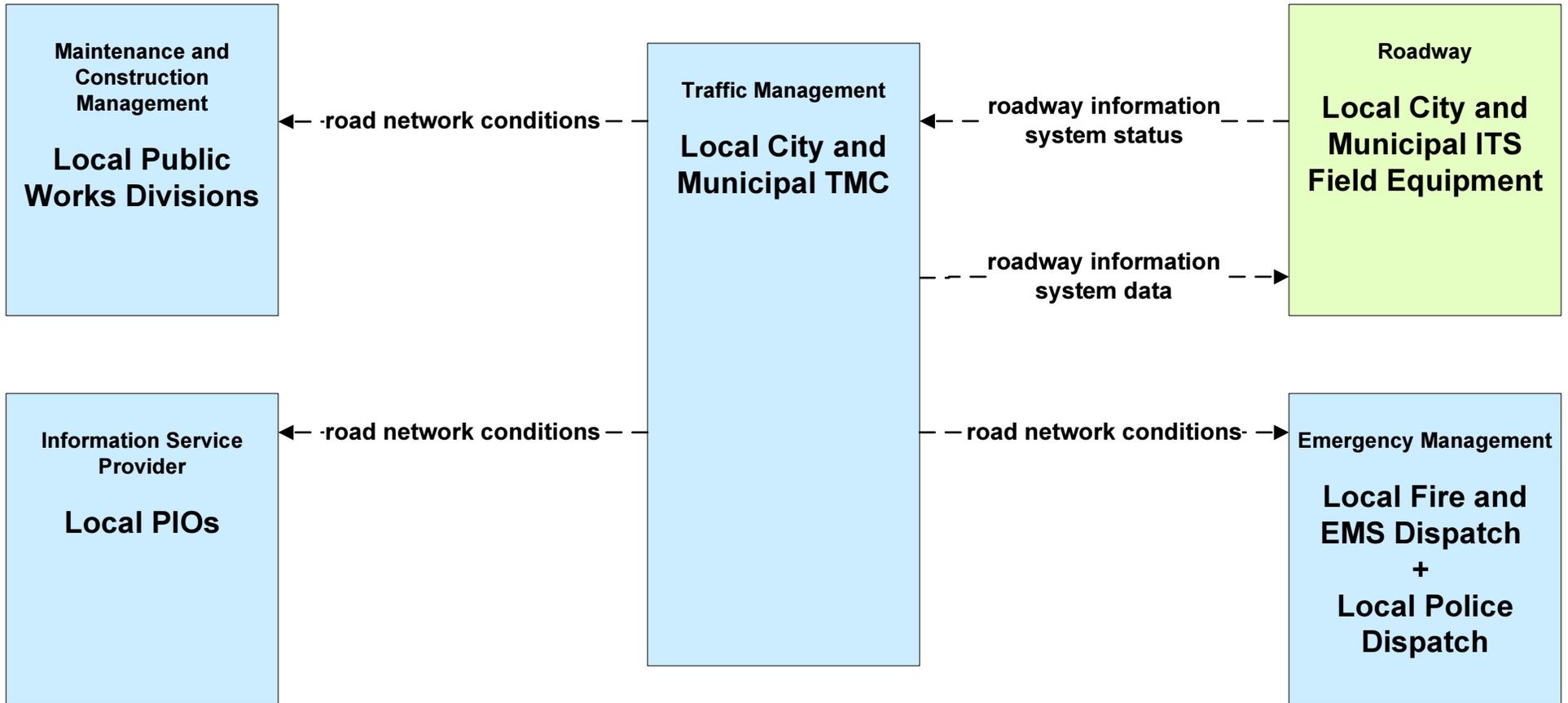
*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*

# ATMS06 - Traffic Information Dissemination City of Tempe



*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*

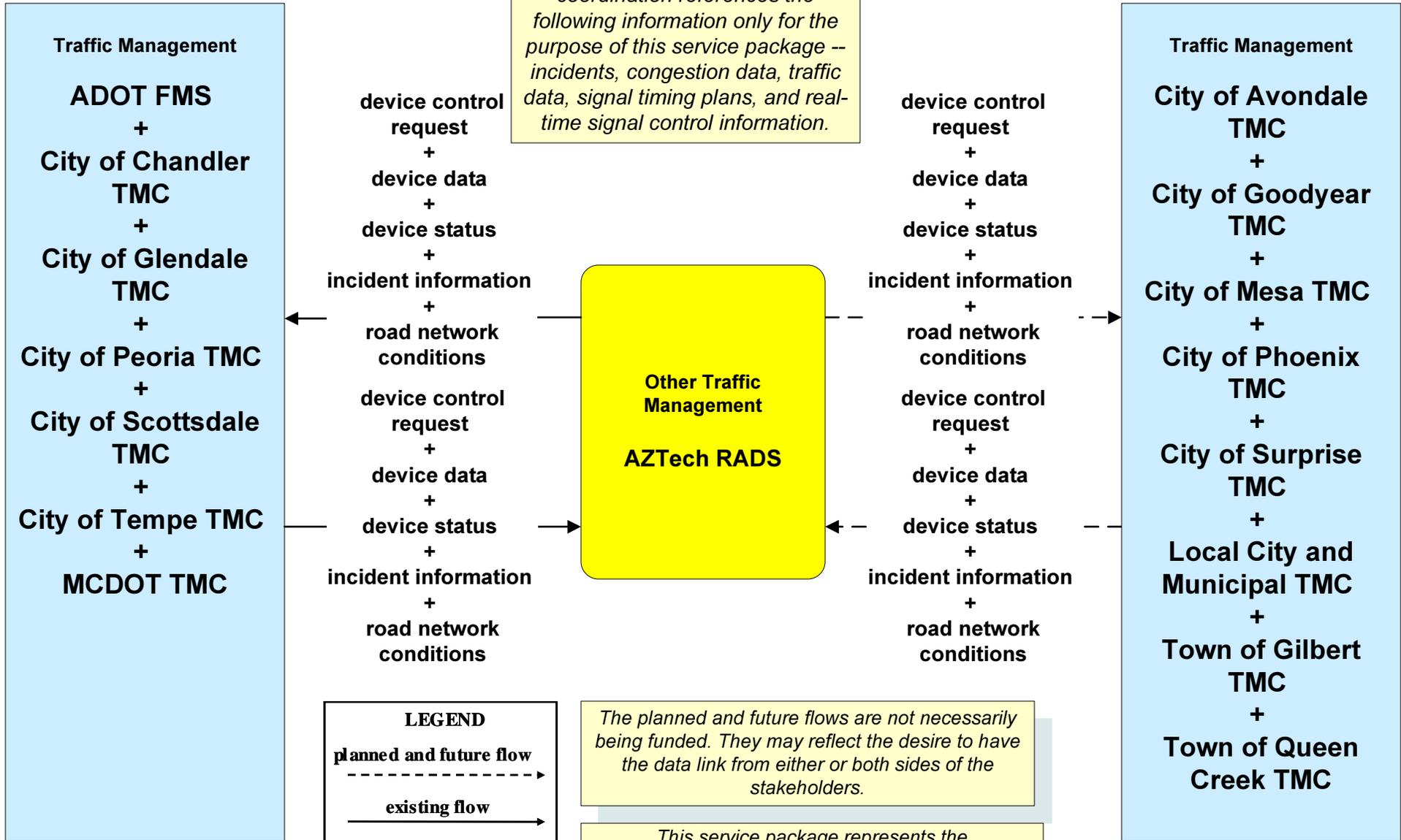
# ATMS06 - Traffic Information Dissemination Local Cities and Municipalities - Generic



*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*

# ATMS07 - Regional Traffic Management AZTech C2C TMS Network

*Note that traffic information coordination references the following information only for the purpose of this service package -- incidents, congestion data, traffic data, signal timing plans, and real-time signal control information.*



**LEGEND**

**planned and future flow**  
----->

**existing flow**  
————>

**user defined flow**  
————>

*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*

*This service package represents the communication between TMCs and the AZTech RADS system and are shown as separate because some are existing and some are planned communications.*

# ATMS07 - Regional Traffic Management AZTech C2C DMS Network

*This service package represents the communication between TMCs and the AZTech RADS system and are shown as separate because some are existing and some are planned communications. The existing flows to TMCs represent the coordination occurring along the Bell Road corridor.*

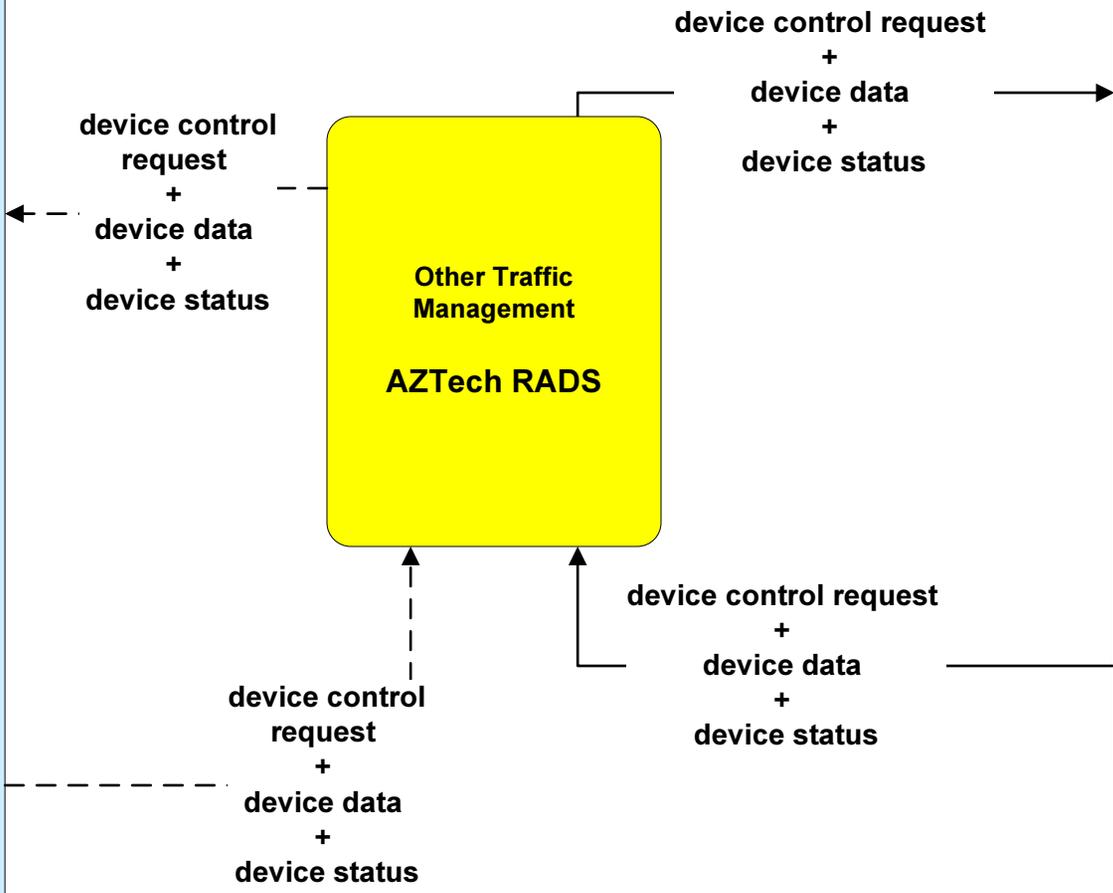
*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*

- Traffic Management**
- City of Avondale TMC
  - +
  - City of Chandler TMC
  - +
  - City of Glendale TMC
  - +
  - City of Goodyear TMC
  - +
  - City of Mesa TMC
  - +
  - City of Phoenix TMC
  - +
  - City of Scottsdale TMC
  - +
  - City of Tempe TMC
  - +
  - Local City and Municipal TMC
  - +
  - Town of Gilbert TMC
  - +
  - Town of Queen Creek TMC

**Other Traffic Management**

**AZTech RADS**

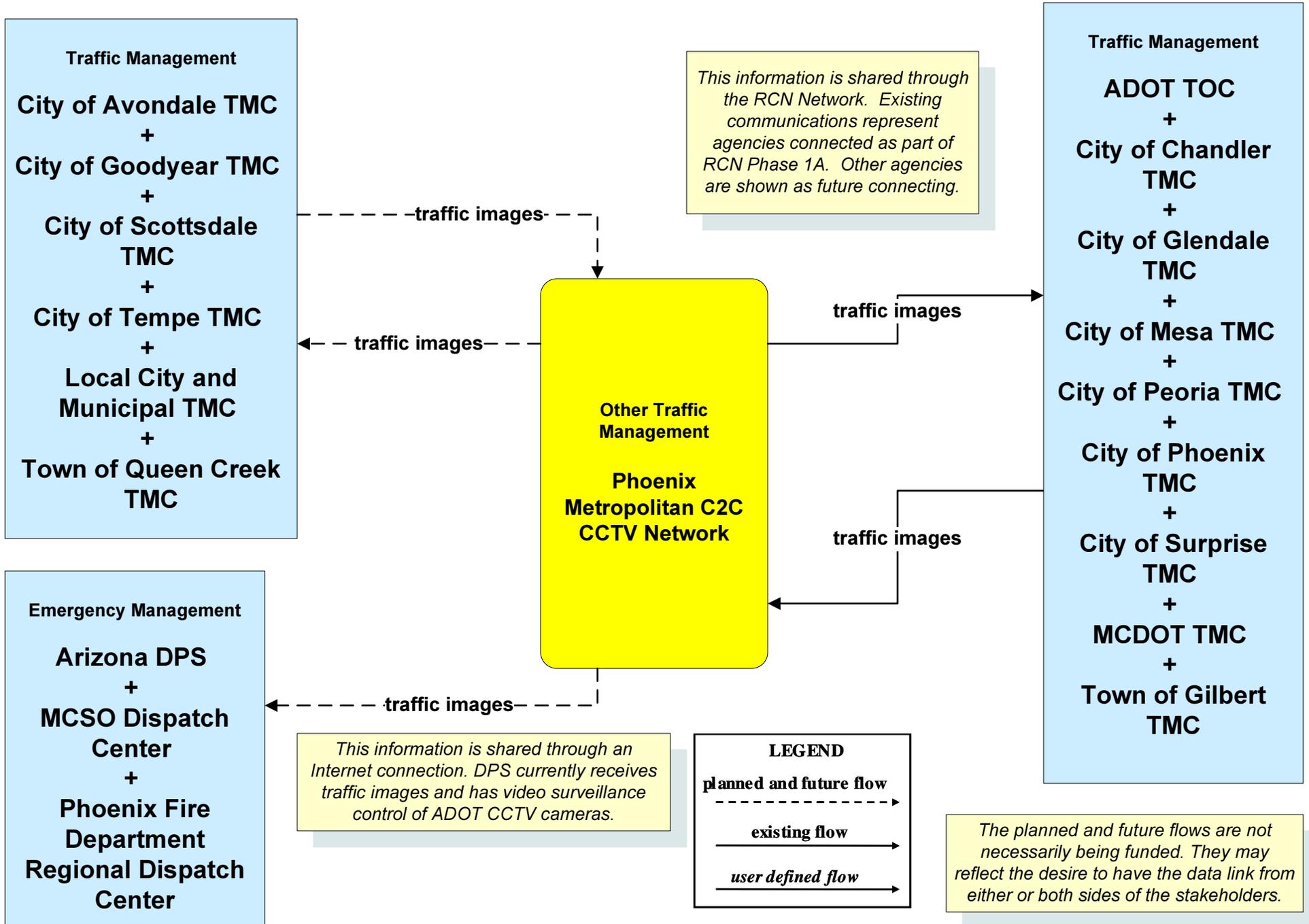
- Traffic Management**
- ADOT TOC
  - +
  - City of Peoria TMC
  - +
  - City of Surprise TMC
  - +
  - MCDOT TMC



**LEGEND**

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

# ATMS07 - Regional Traffic Management Phoenix Metropolitan C2C CCTV Network



## **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*

### **EM01 Covered**

*Emergency Management ↔ Emergency Management*

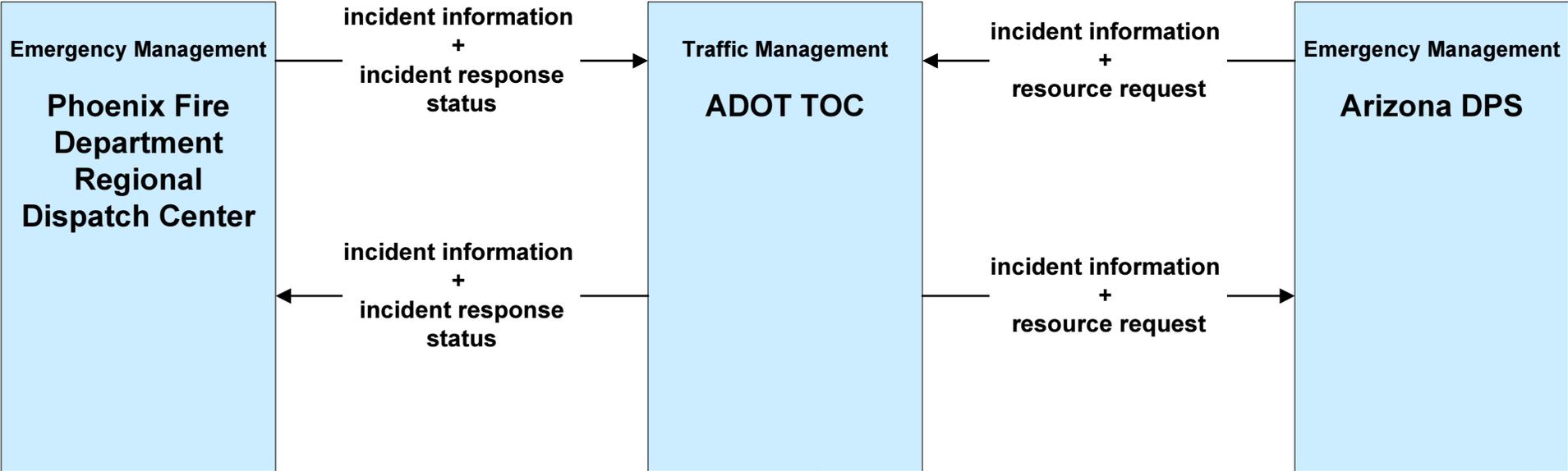
### **EM02 Covered**

*Emergency Vehicle Preemption*

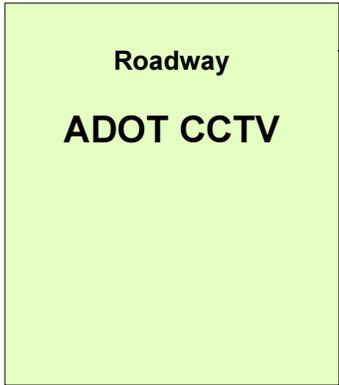
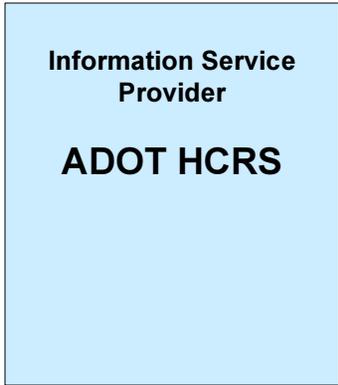
## **ATMS08 - Incident Management**

*Traffic Management ↔ Emergency Management*

**ATMS08 – Traffic Incident Management System  
Arizona DOT (TM to EM)**



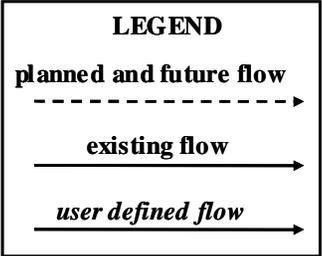
*Note: the incident management interface between ADOT TOC and Phoenix Fire Department Regional Dispatch Center runs through the AZTech RADS.*



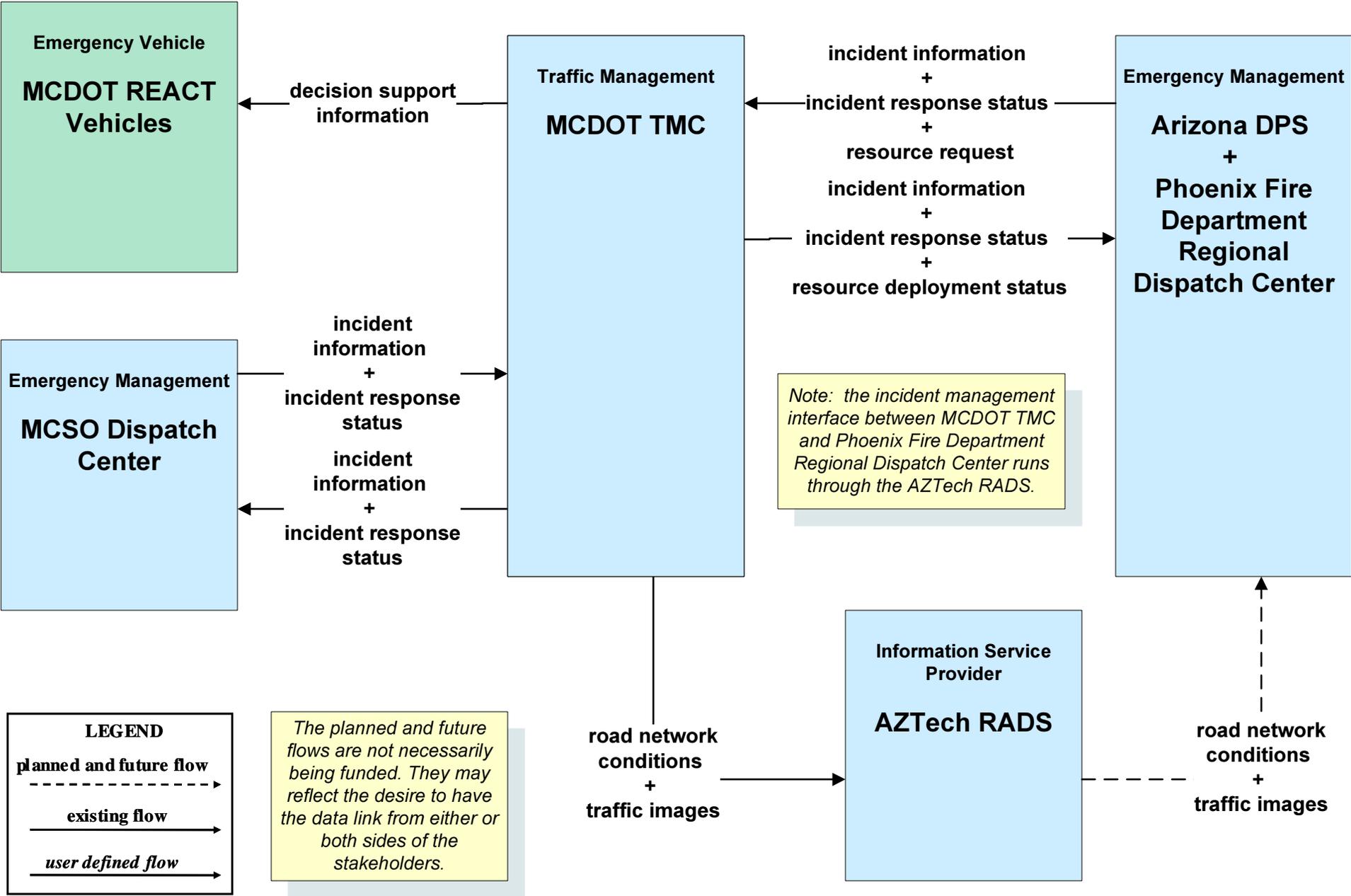
**incident information + road network conditions**

**traffic images**

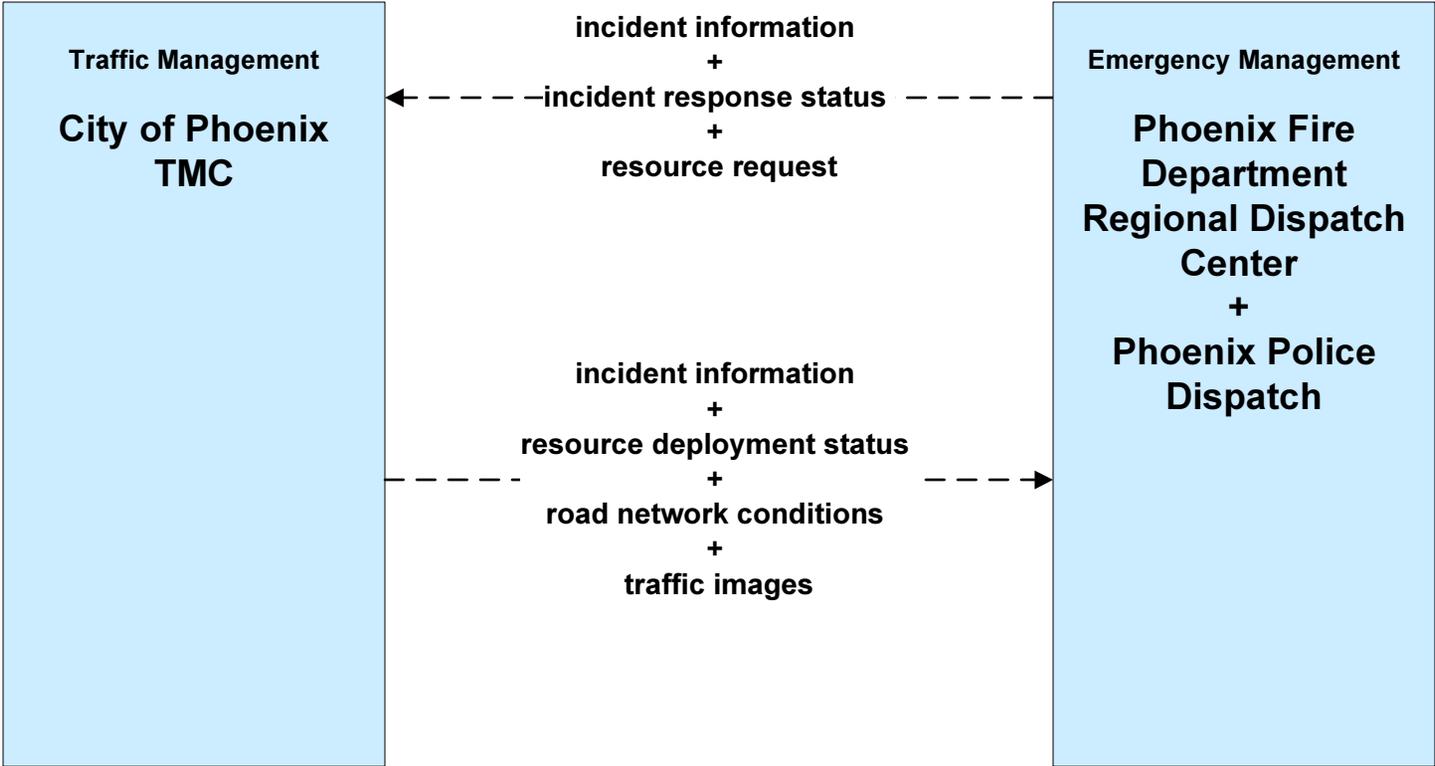
**video surveillance control**



# ATMS08 - Traffic Incident Management System Maricopa County (TM to EM)



**ATMS08 - Traffic Incident Management System  
City of Phoenix (TM to EM)**

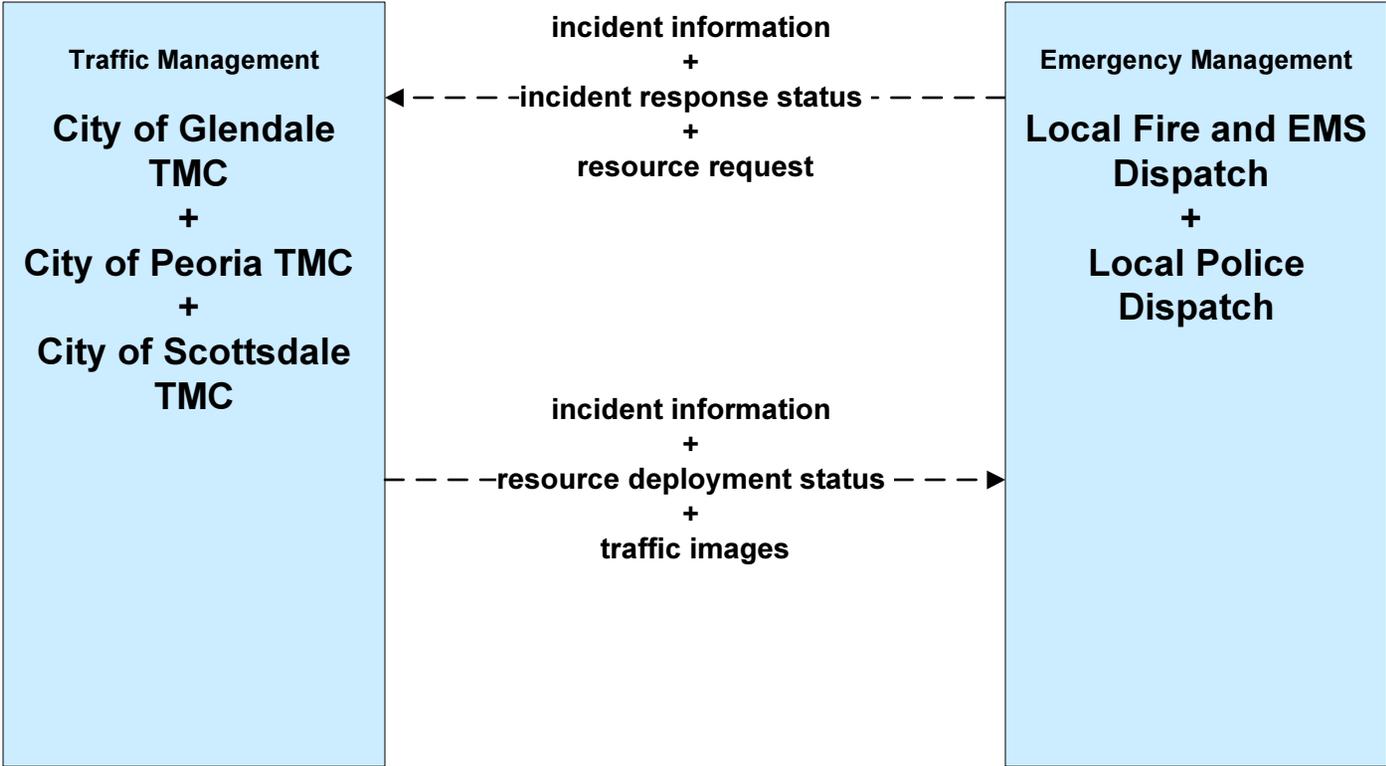


**LEGEND**

- planned and future flow** (indicated by a dashed arrow)
- existing flow** (indicated by a solid arrow)
- user defined flow** (indicated by a solid arrow)

*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*

# ATMS08 - Traffic Incident Management System Local Cities and Municipalities (TM to EM)



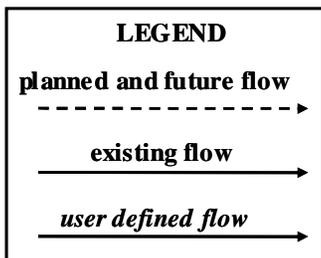
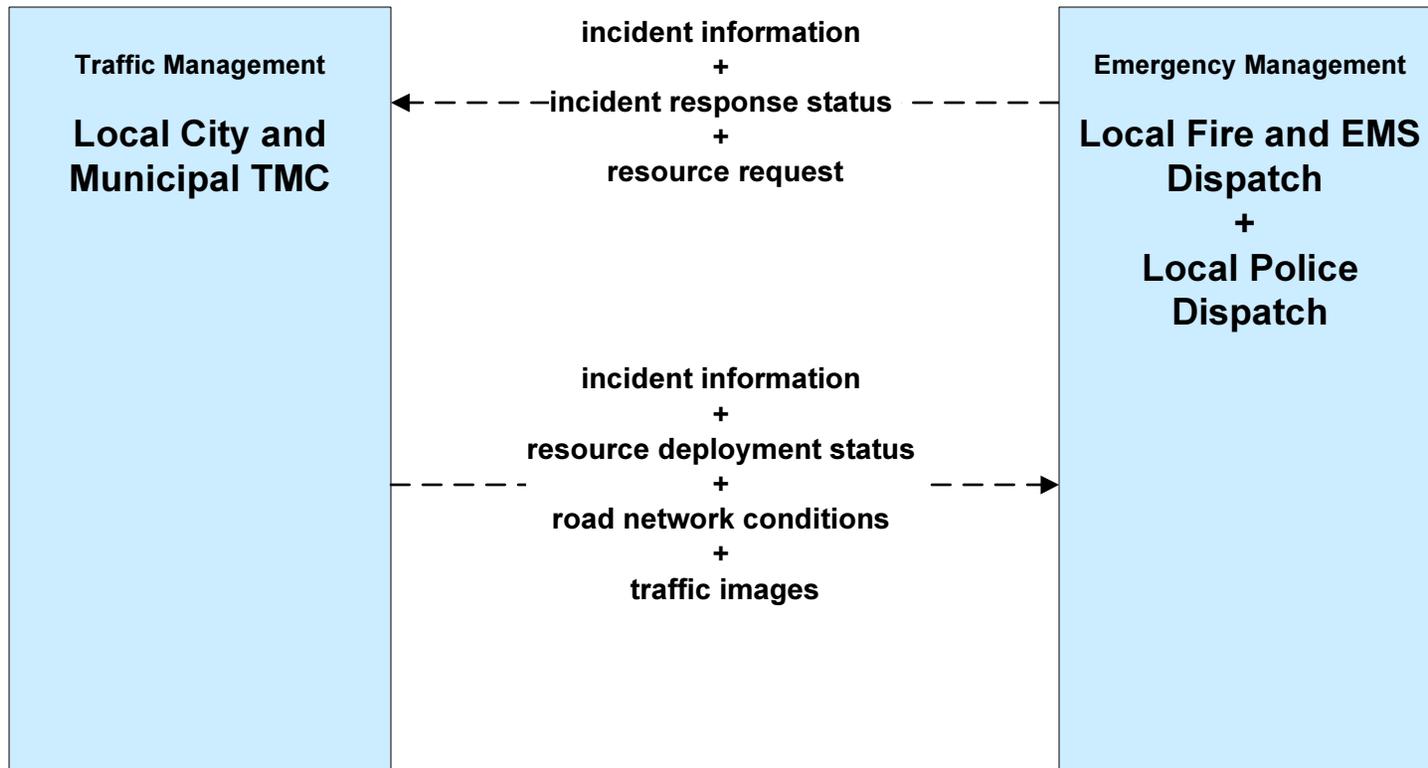
**LEGEND**

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

*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*

*This service package represents the direct information flow between TMCS and their respective public safety agencies rather than a transfer of information from one TMC through an Emergency Management agency to another TMC. TMCs are represented in different boxes due to the status of those information flows*

**ATMS08 - Traffic Incident Management System  
Local Cities and Municipalities – Generic (TM to EM)**

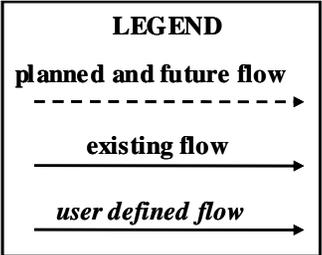
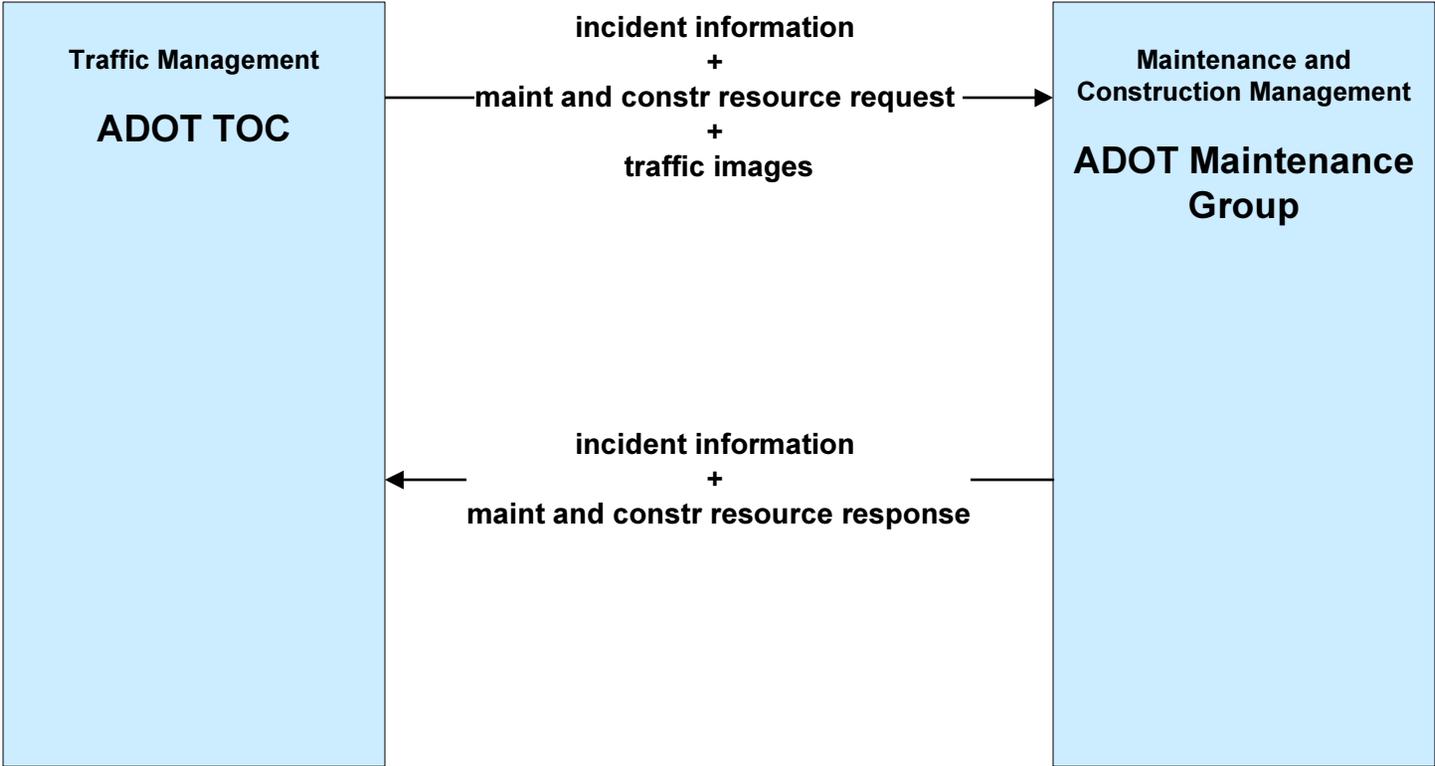


*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*

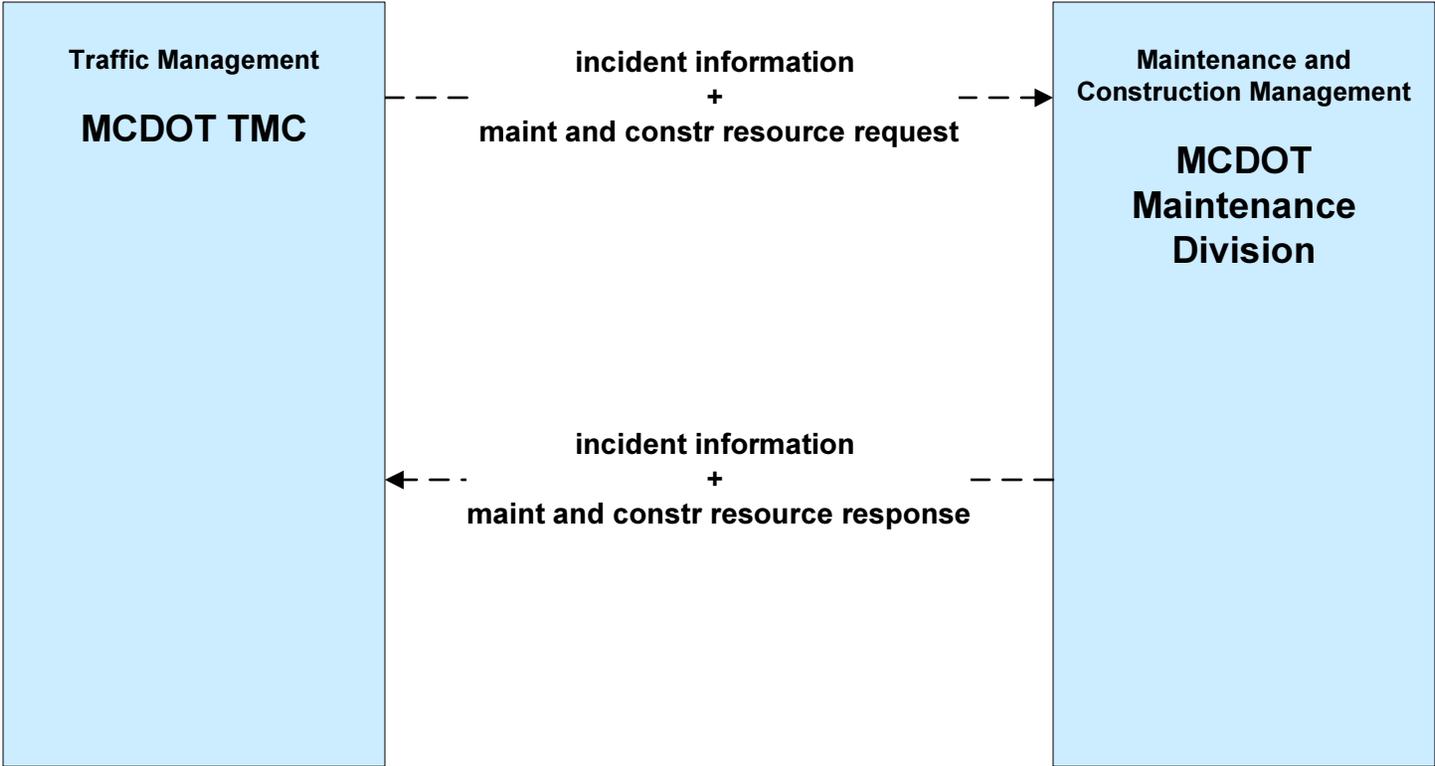
## **ATMS08 - Incident Management**

*Traffic Management ↔ Maintenance and Construction Management*

**ATMS08 - Traffic Incident Management System  
Arizona DOT (TM to MCM)**



**ATMS08 - Traffic Incident Management System  
Maricopa County (TM to MCM)**

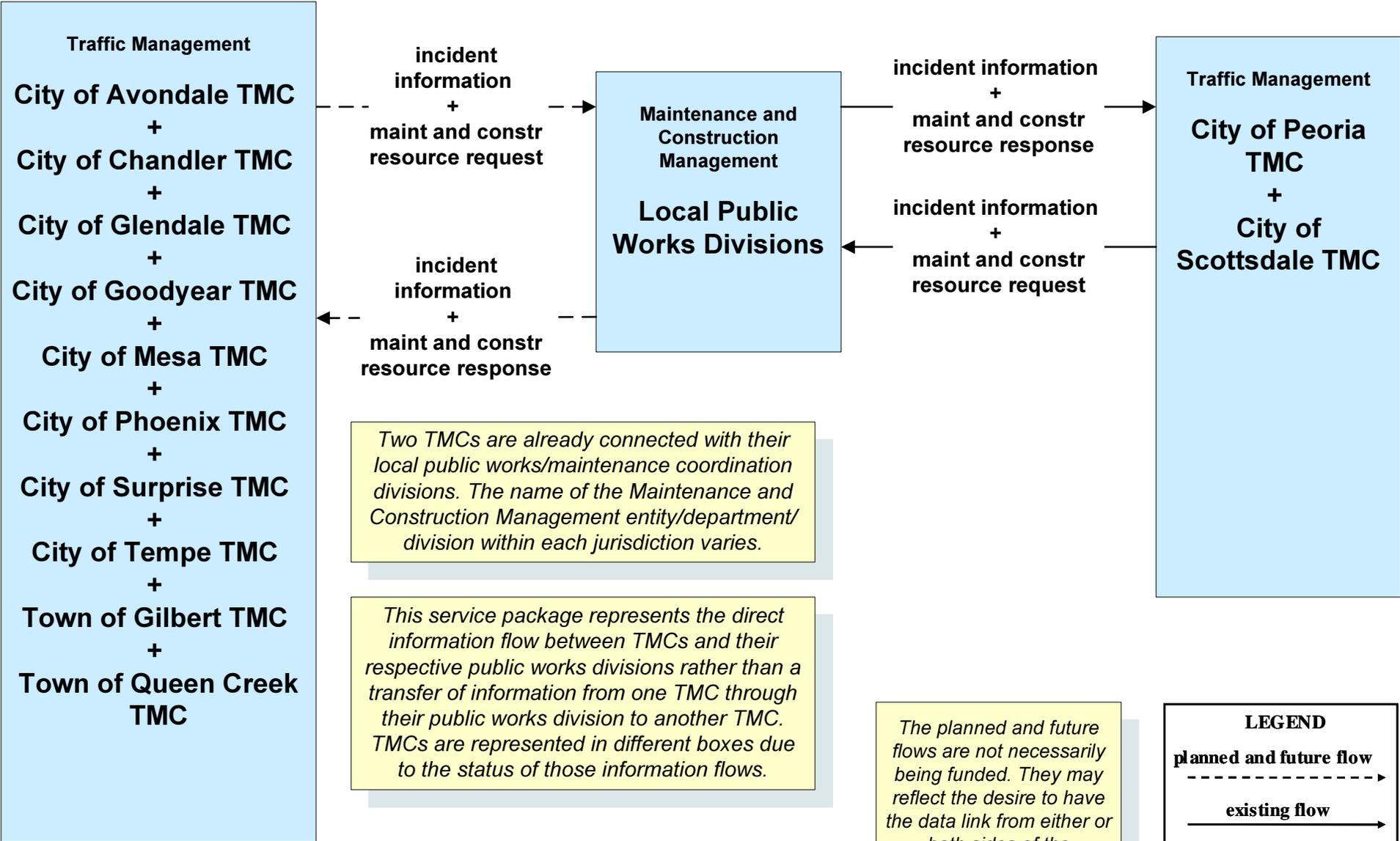


**LEGEND**

- planned and future flow** (dashed arrow)
- existing flow** (solid arrow)
- user defined flow** (solid arrow)

*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*

# ATMS08 - Traffic Incident Management System Local Cities and Municipalities (TM to MCM)



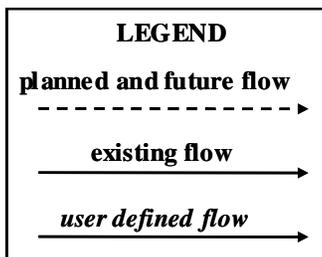
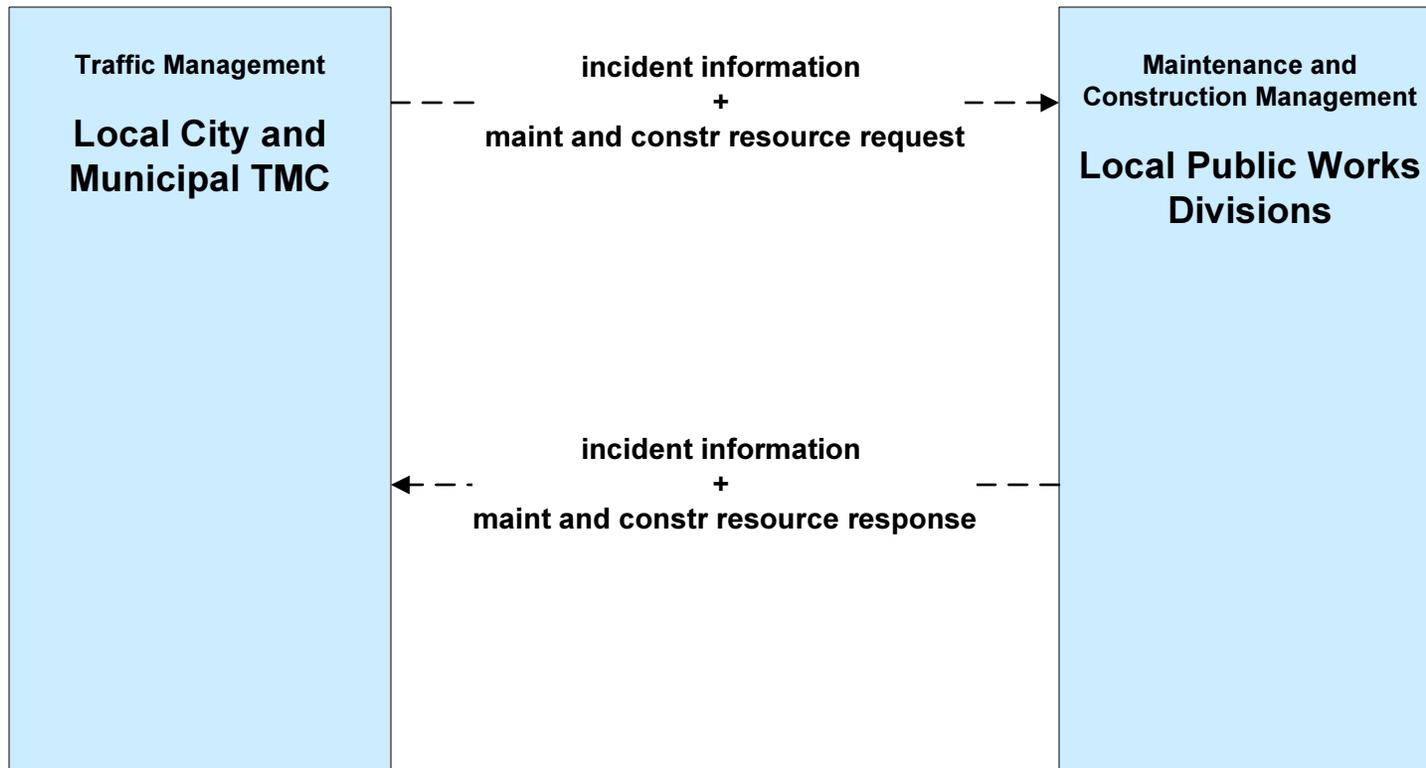
**LEGEND**

**planned and future flow**  
 - - - - ->

**existing flow**  
 —————>

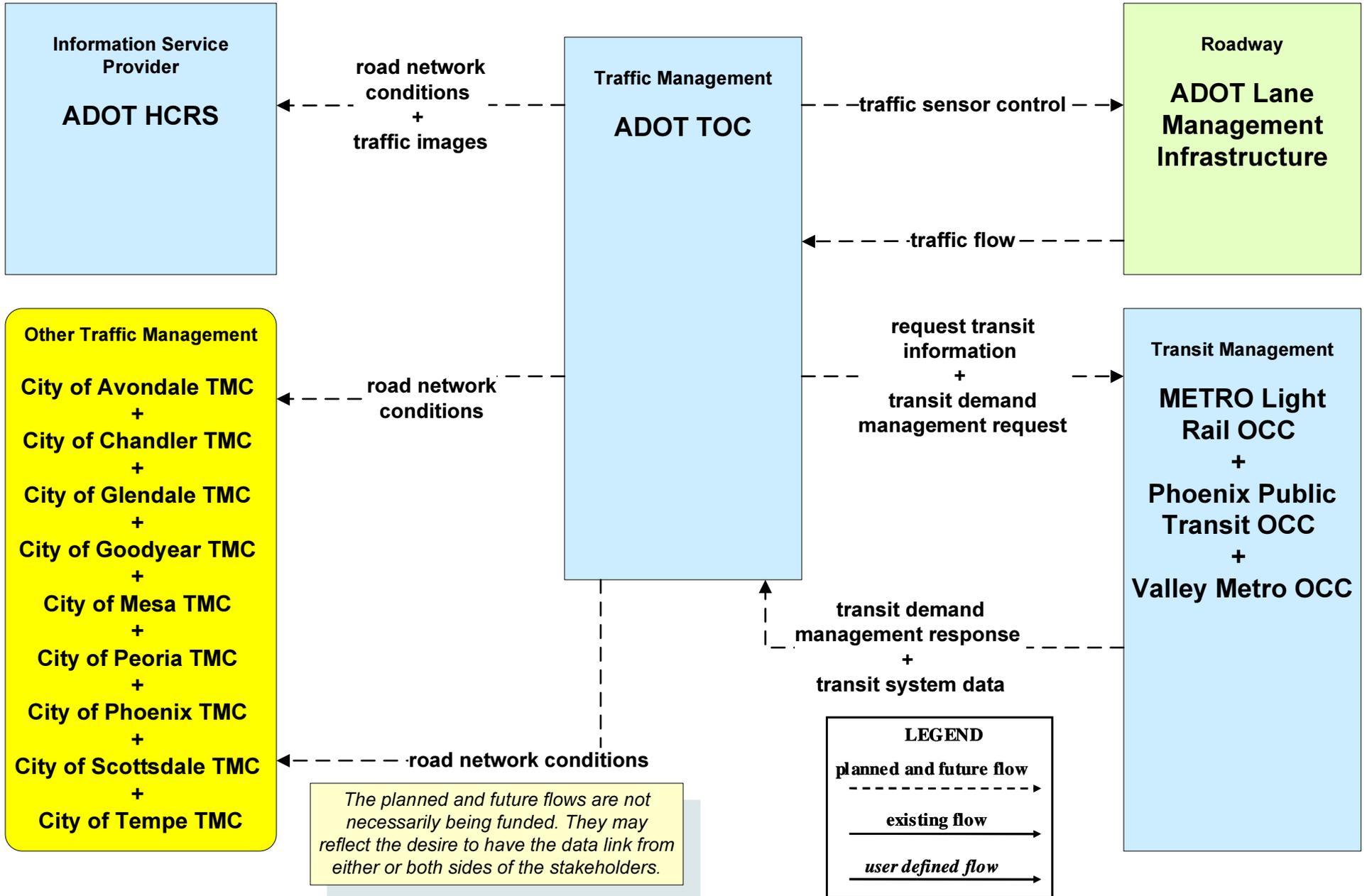
**user defined flow**  
 —————>

**ATMS08 - Traffic Incident Management System  
Local Cities and Municipalities – Generic (TM to MCM)**

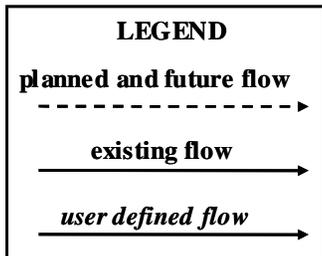
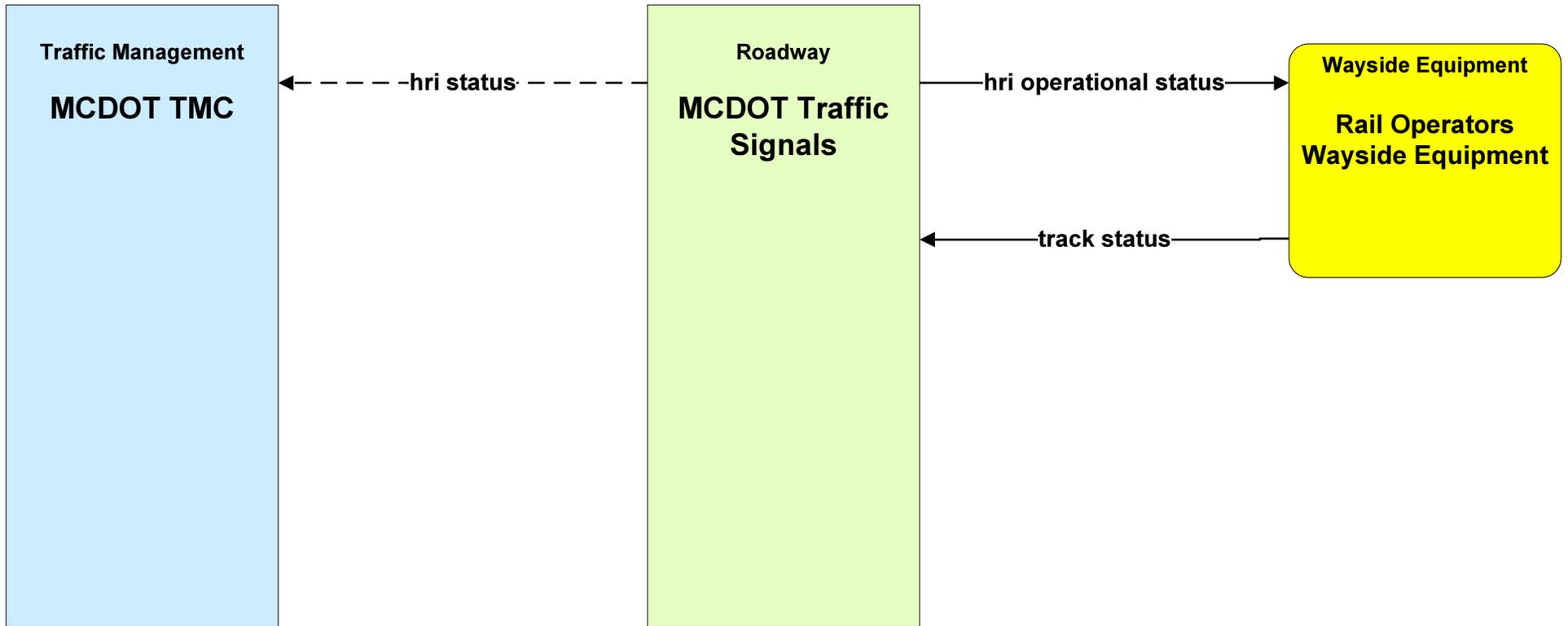


*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*

**ATMS09 – Transportation Decision Support and Demand Management  
ADOT ICM/ATM**

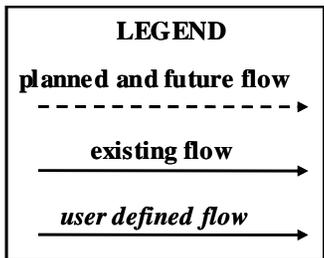
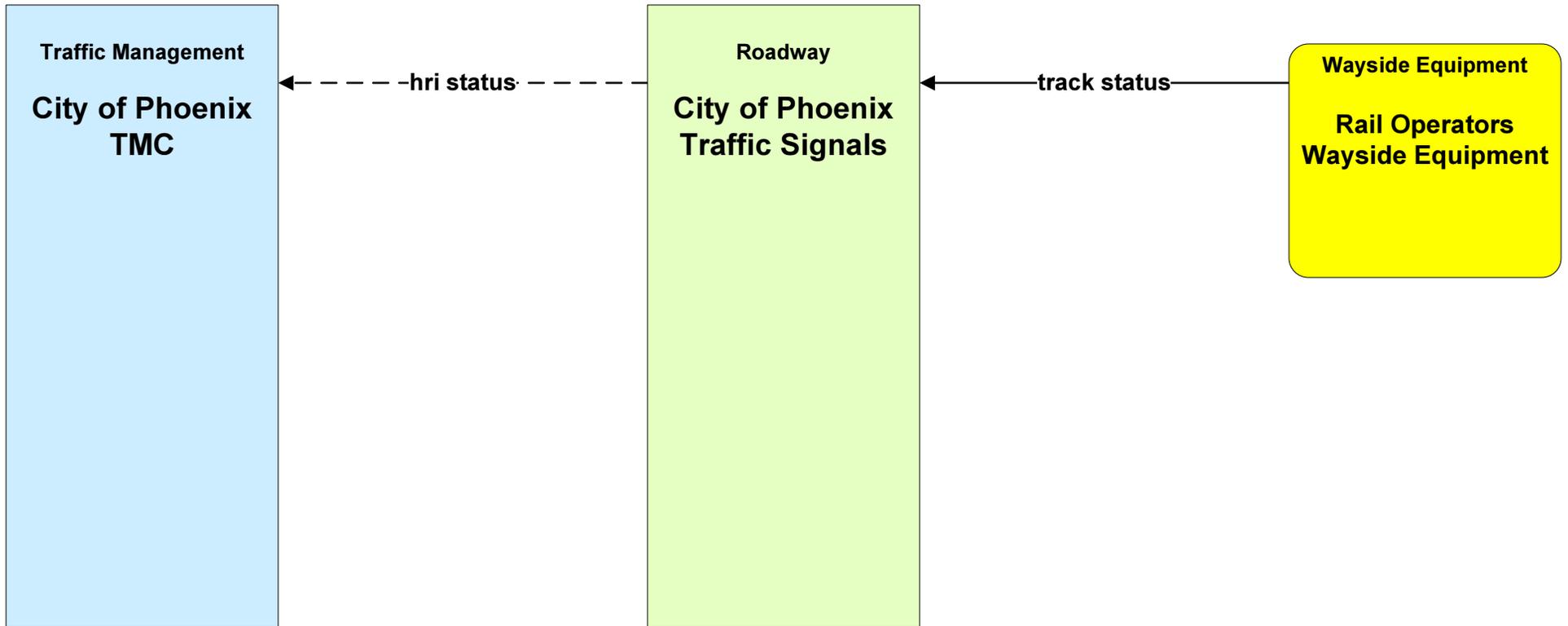


# ATMS13 - Standard Railroad Grade Crossing Maricopa County



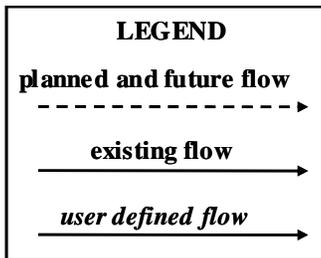
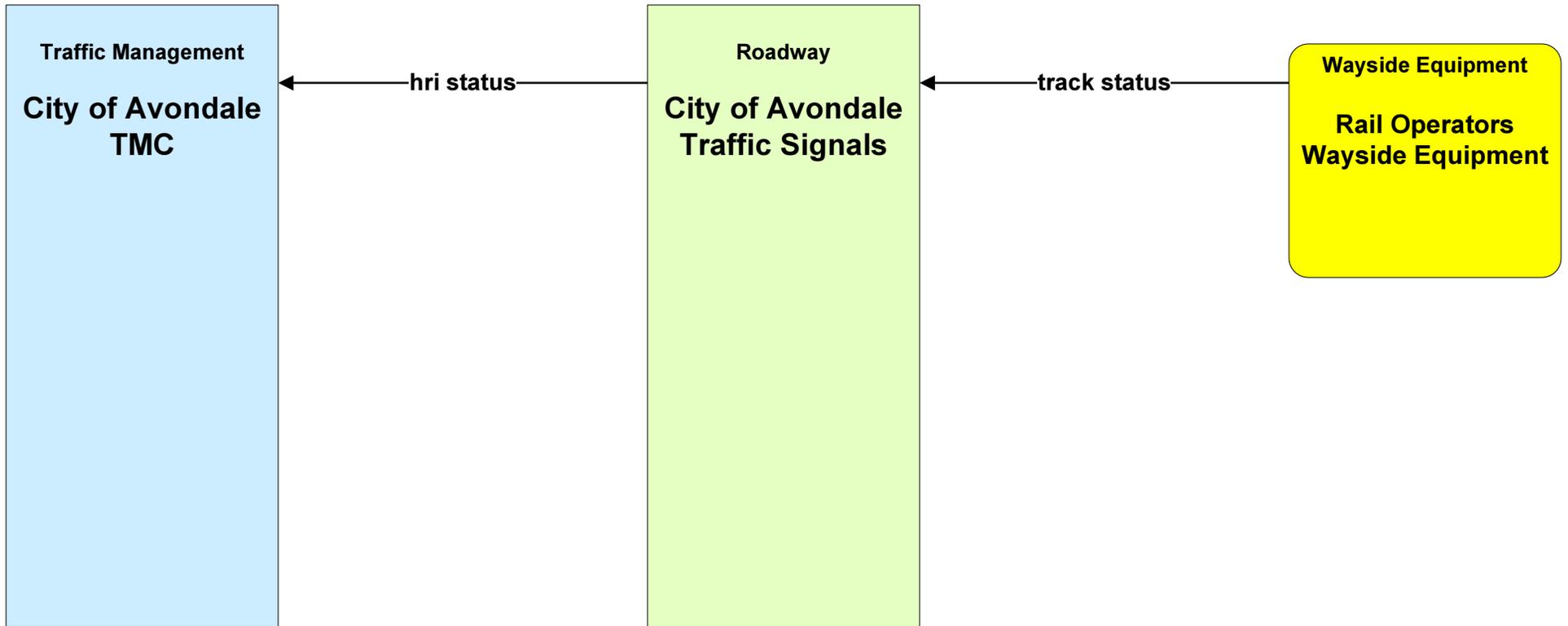
*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*

**ATMS13 - Standard Railroad Grade Crossing  
City of Phoenix**

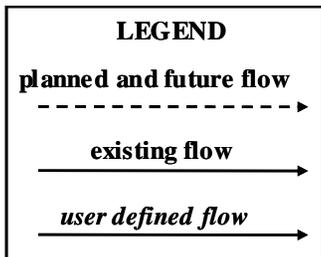
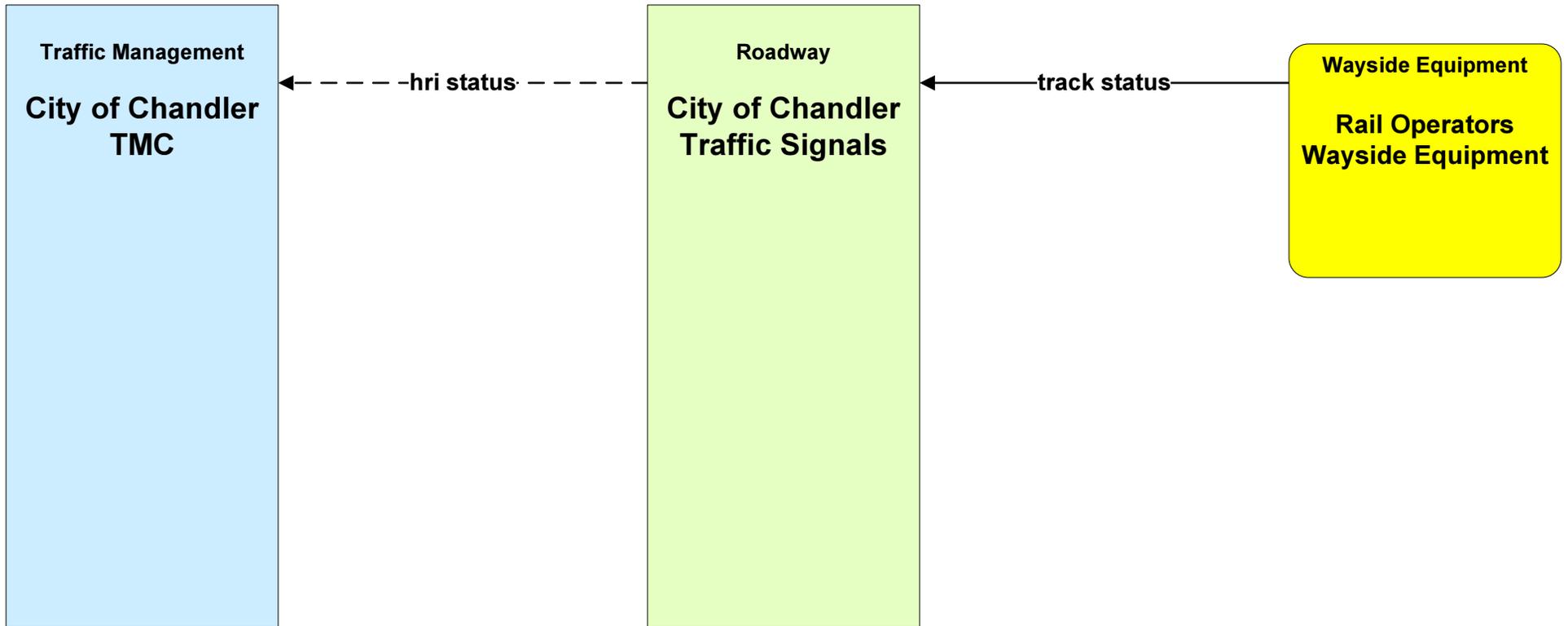


*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*

**ATMS13 - Standard Railroad Grade Crossing  
City of Avondale**

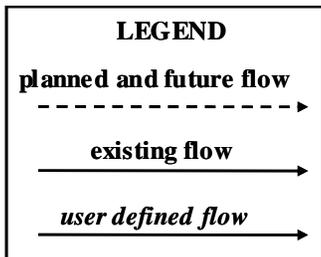
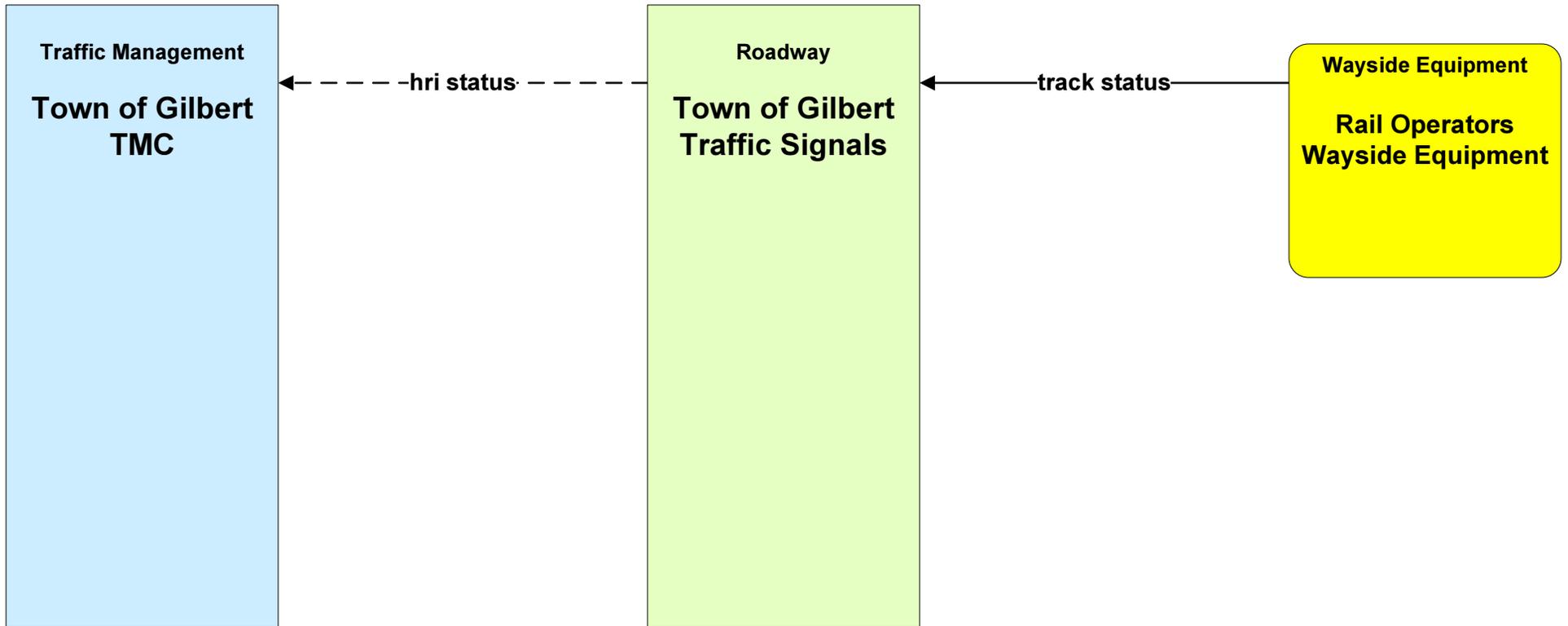


# ATMS13 - Standard Railroad Grade Crossing City of Chandler



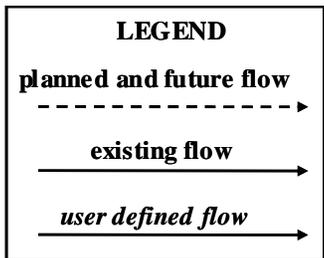
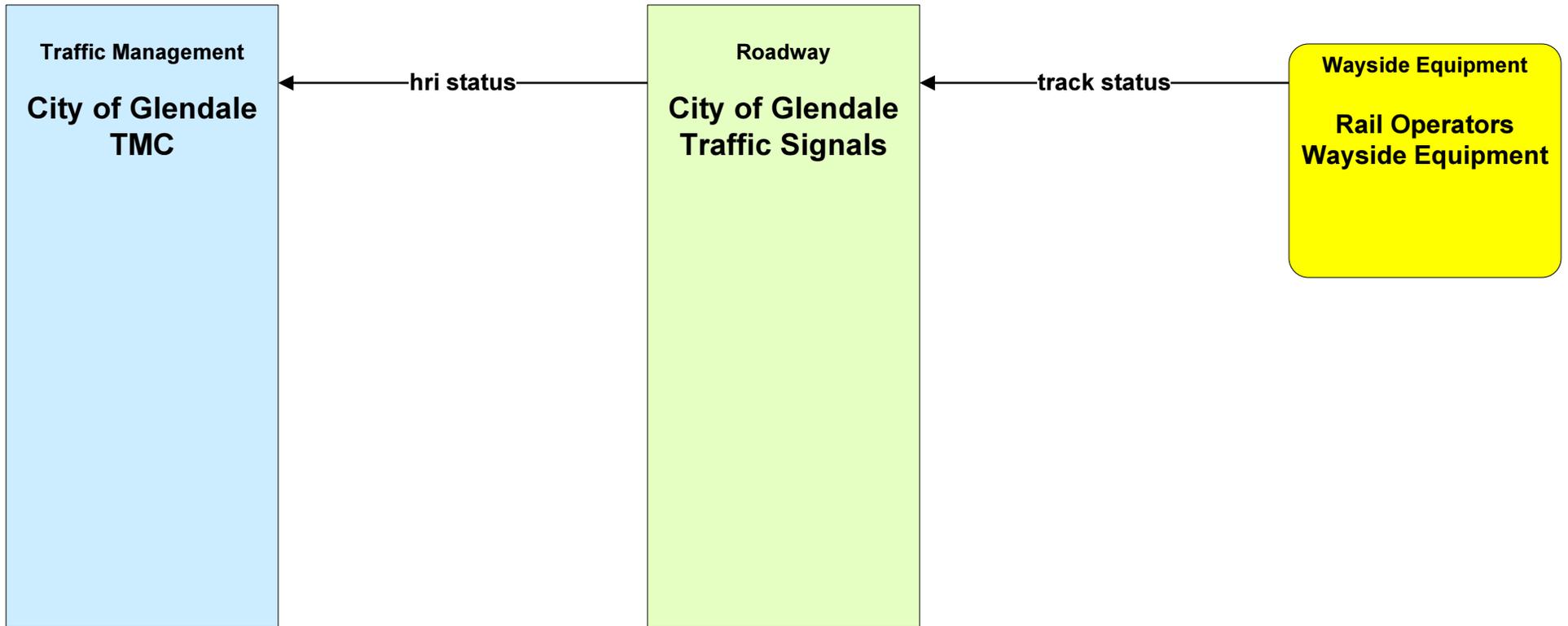
*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*

**ATMS13 - Standard Railroad Grade Crossing  
Town of Gilbert**

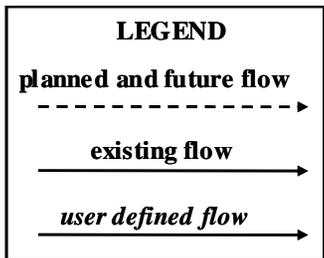
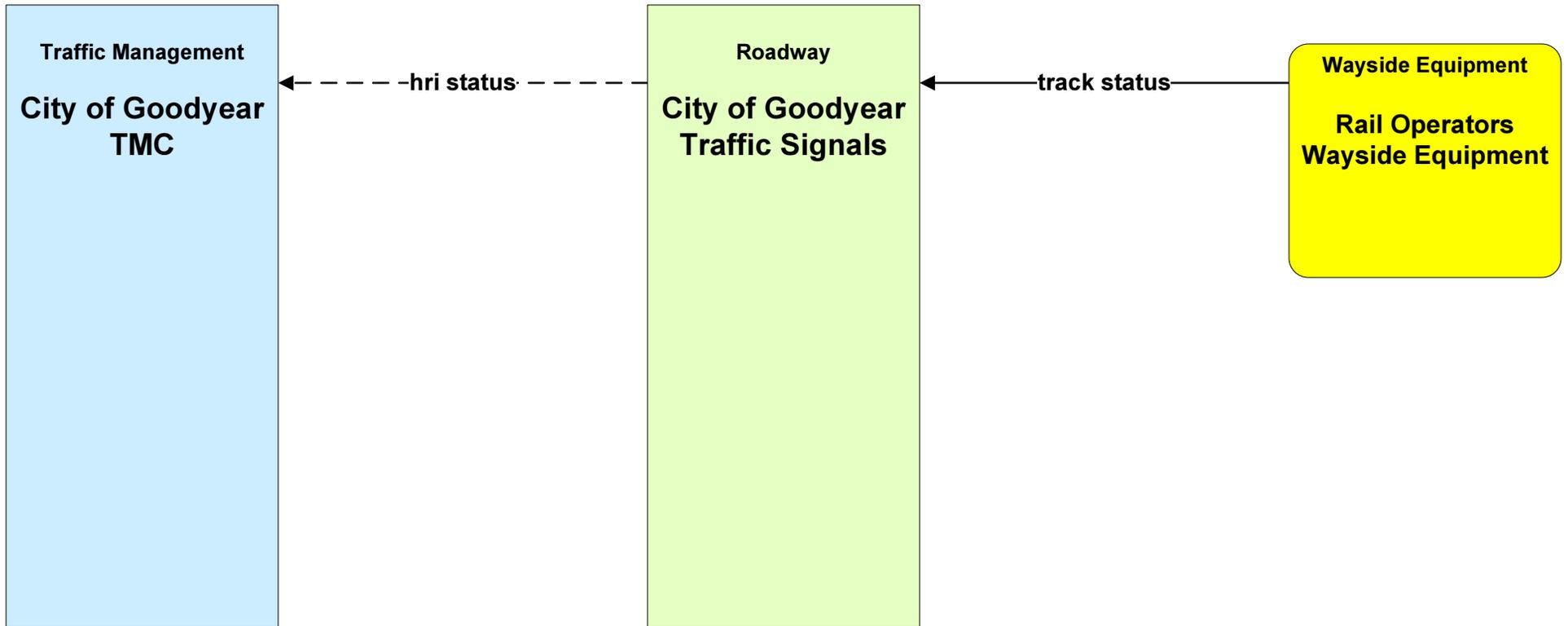


*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*

**ATMS13 - Standard Railroad Grade Crossing  
City of Glendale**

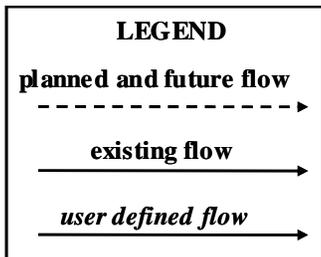
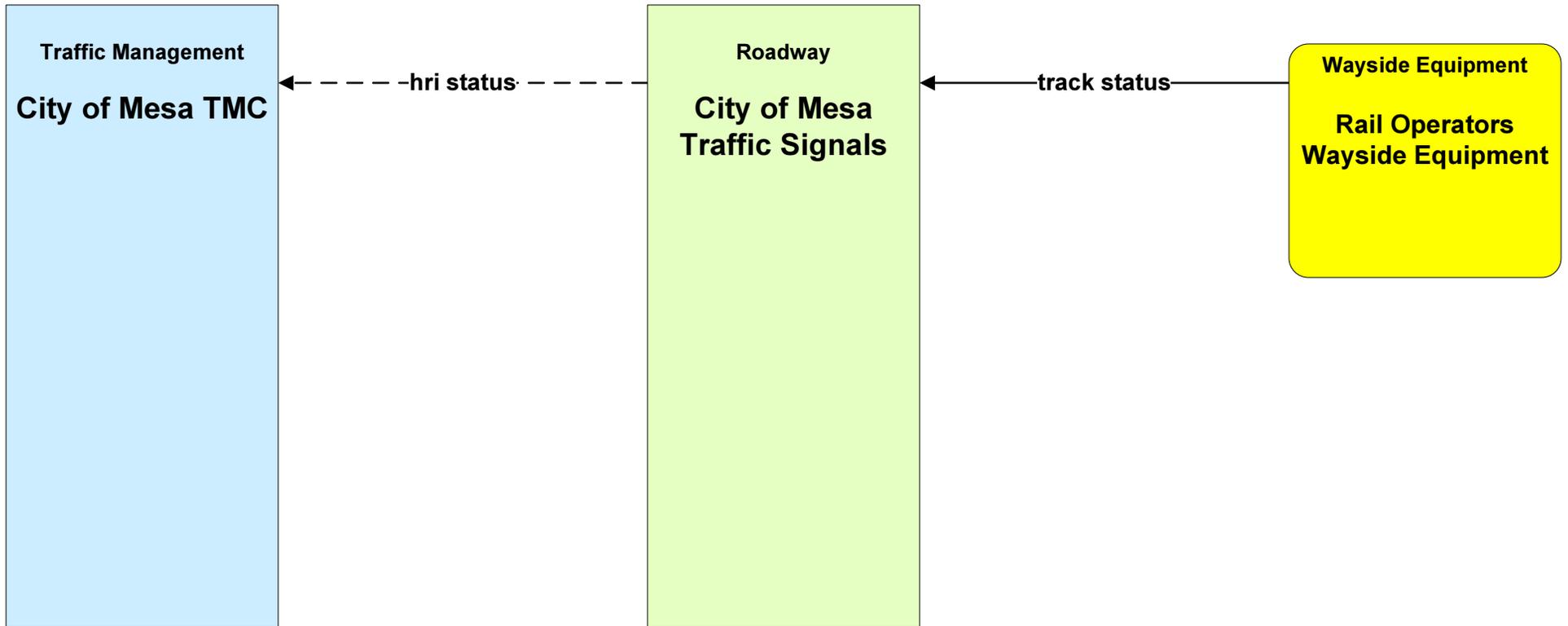


**ATMS13 - Standard Railroad Grade Crossing  
City of Goodyear**



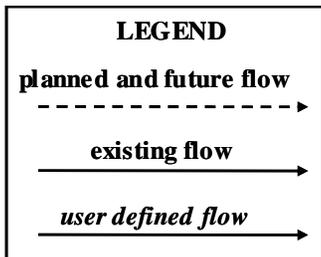
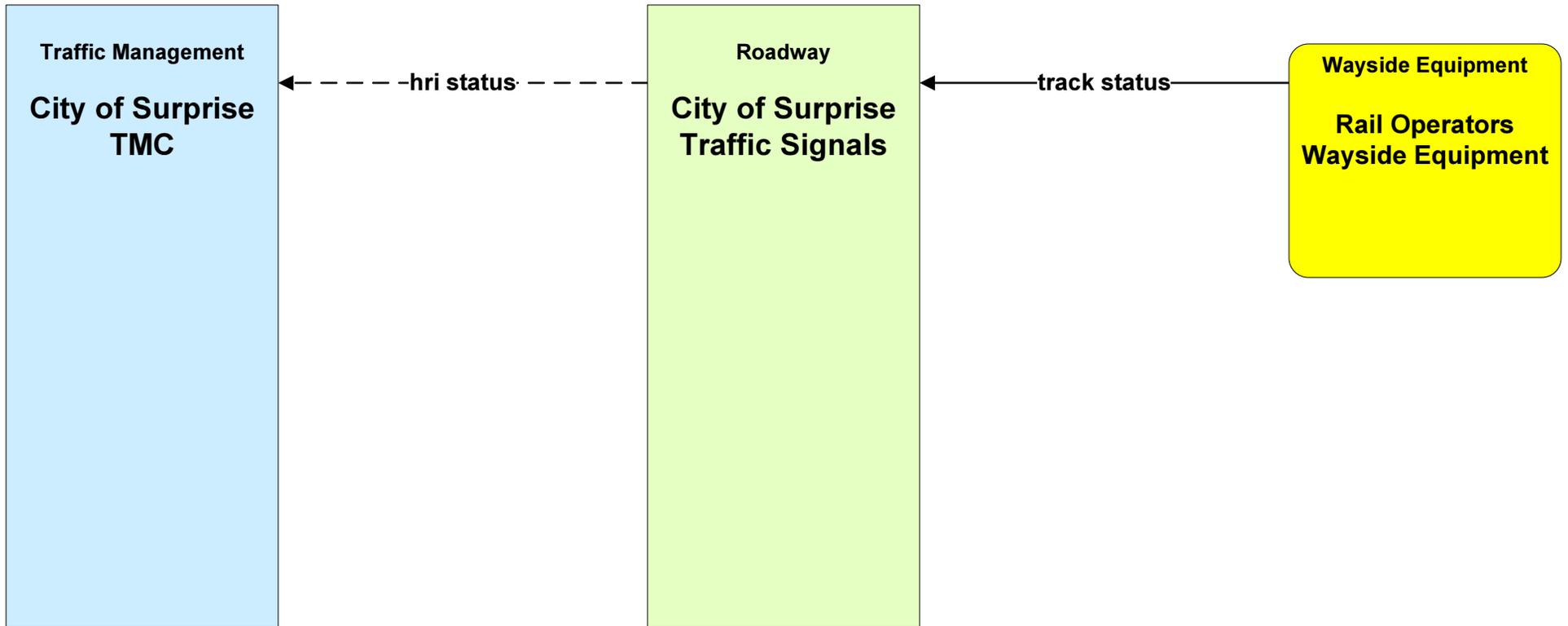
*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*

**ATMS13 - Standard Railroad Grade Crossing  
City of Mesa**



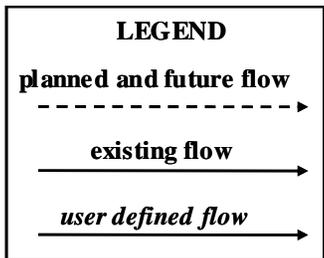
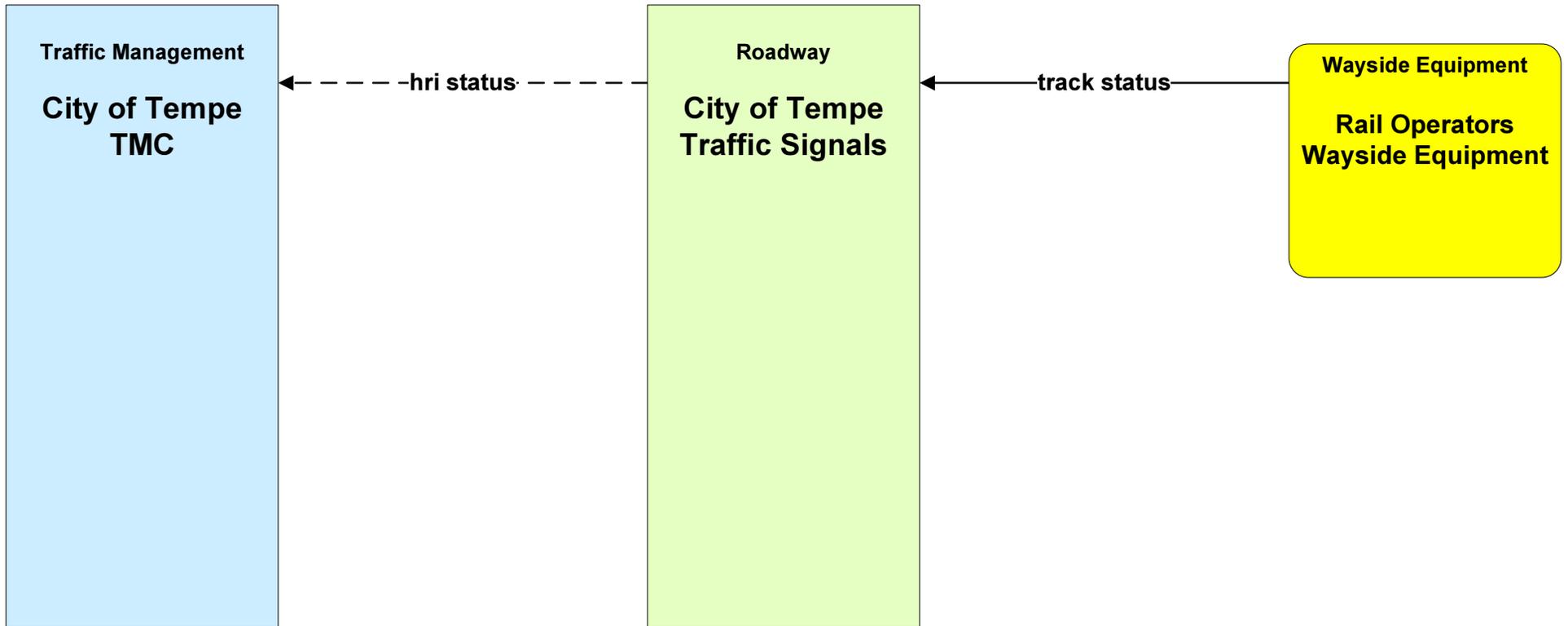
*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*

**ATMS13 - Standard Railroad Grade Crossing  
City of Surprise**



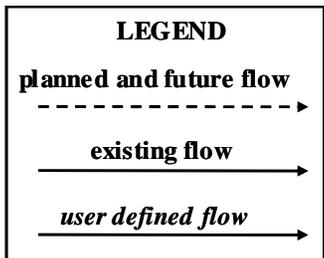
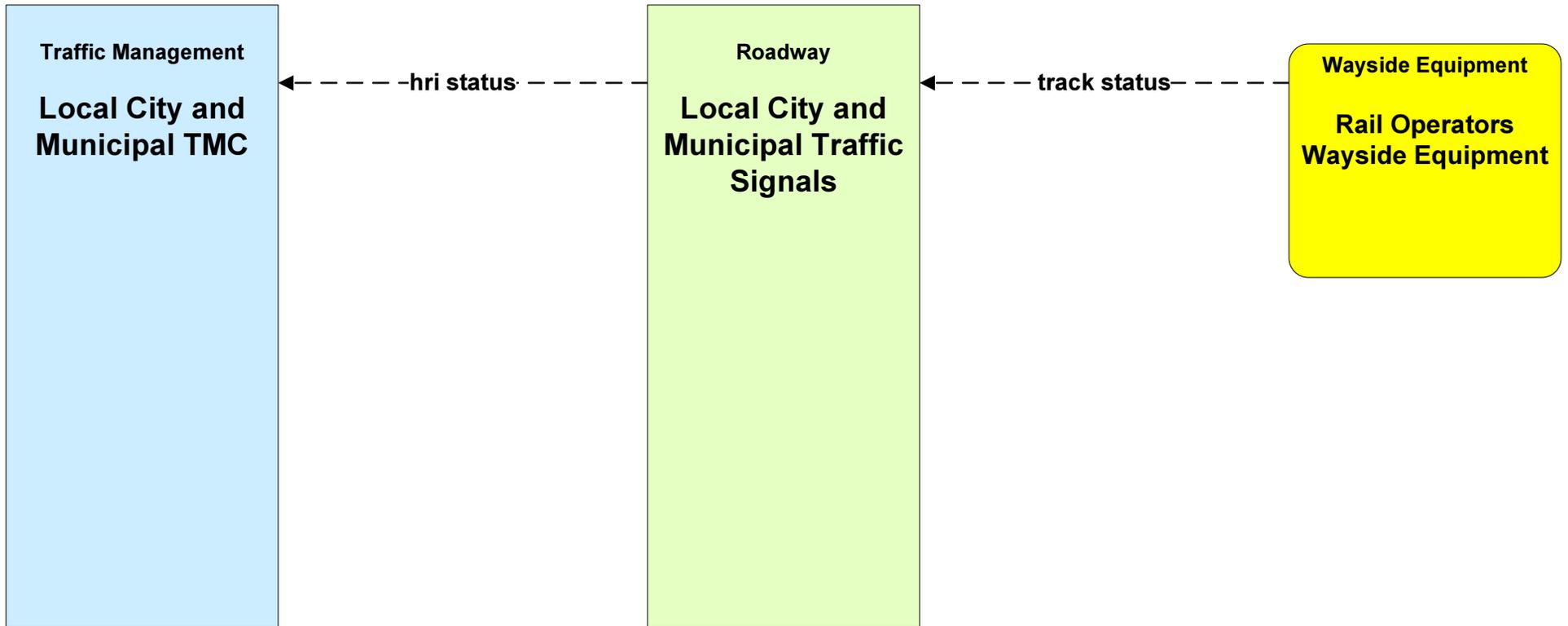
*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*

**ATMS13 - Standard Railroad Grade Crossing  
City of Tempe**



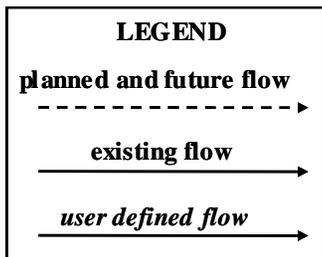
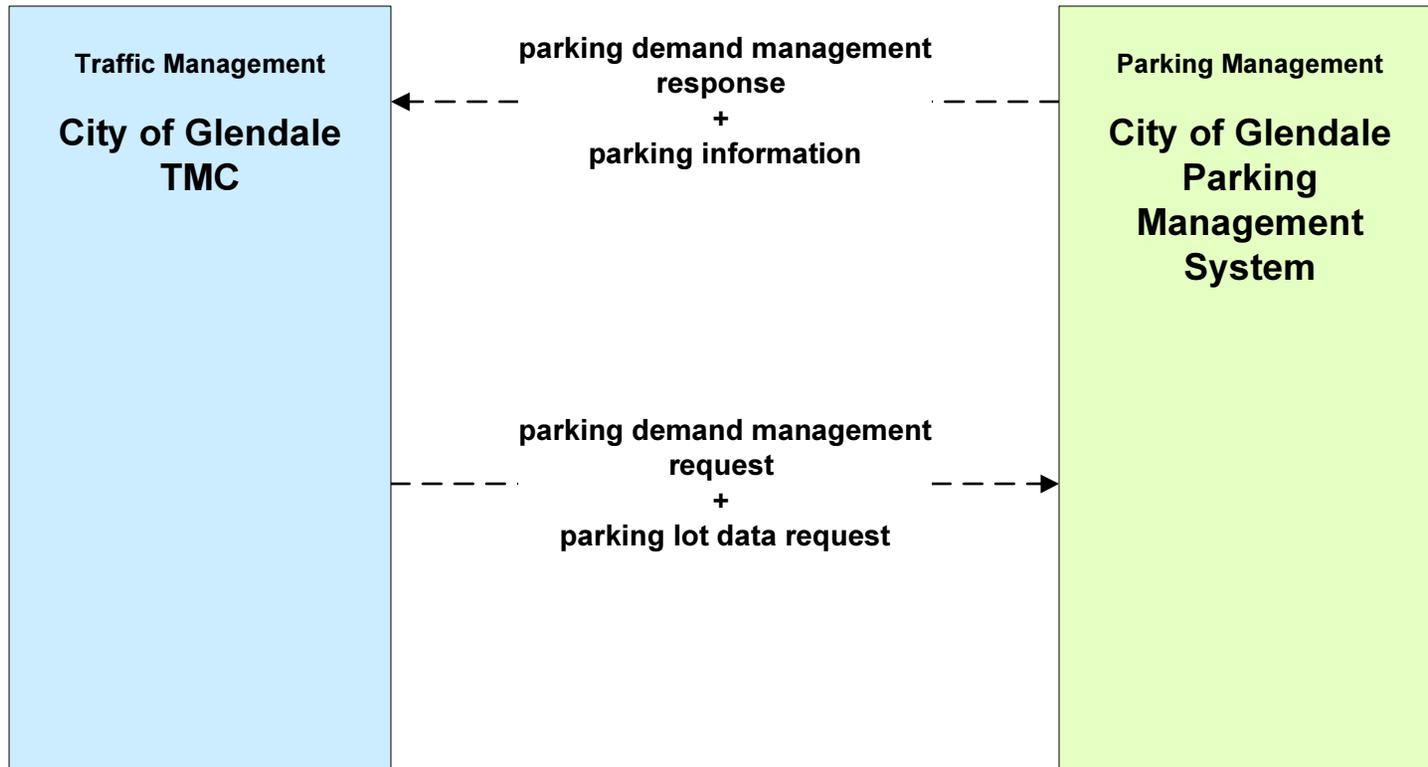
*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*

**ATMS13 - Standard Railroad Grade Crossing  
Local Cities and Municipalities - Generic**



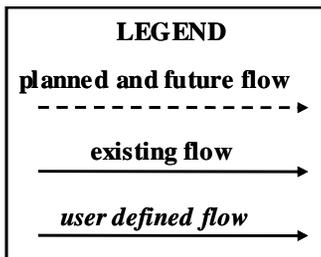
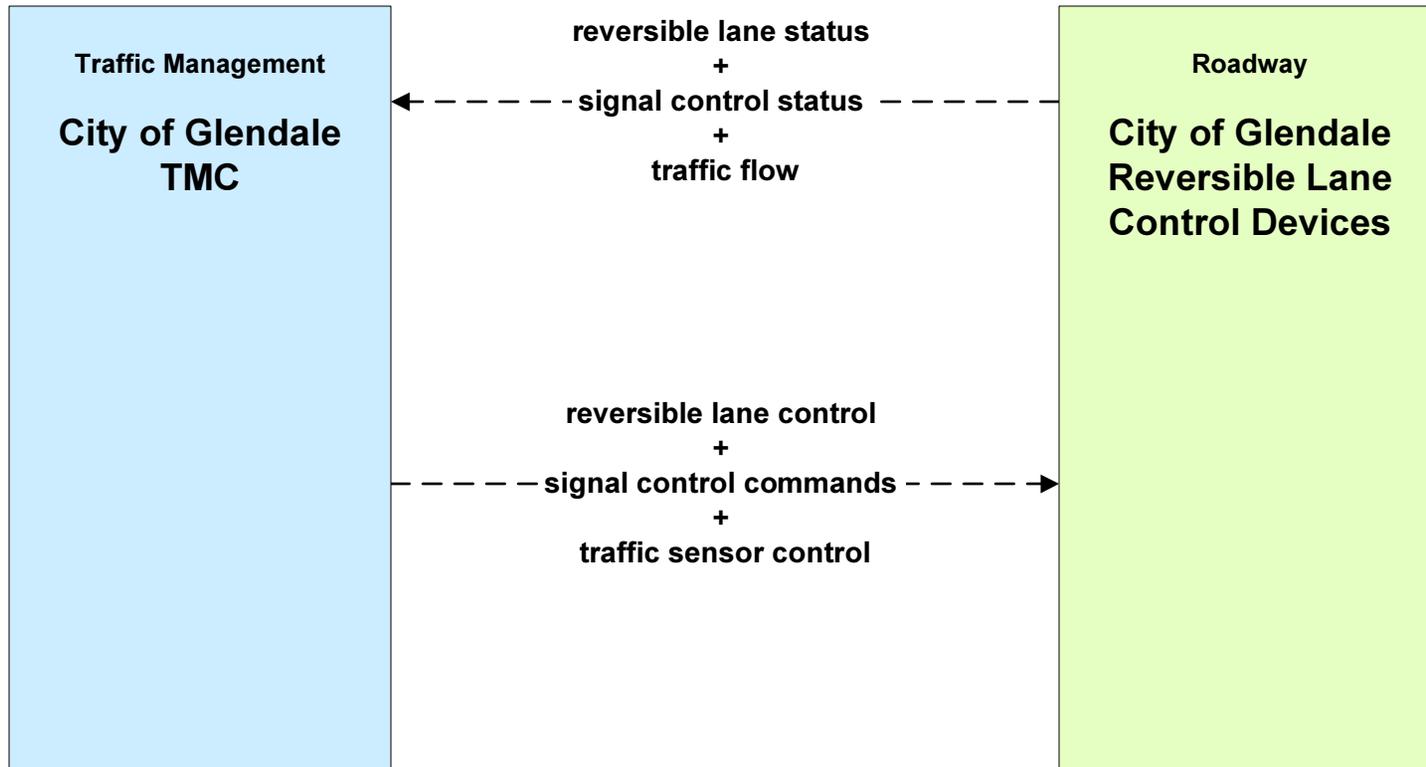
*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*

# ATMS17 - Regional Parking Management City of Glendale



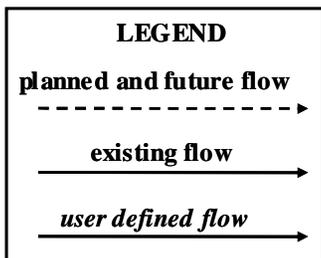
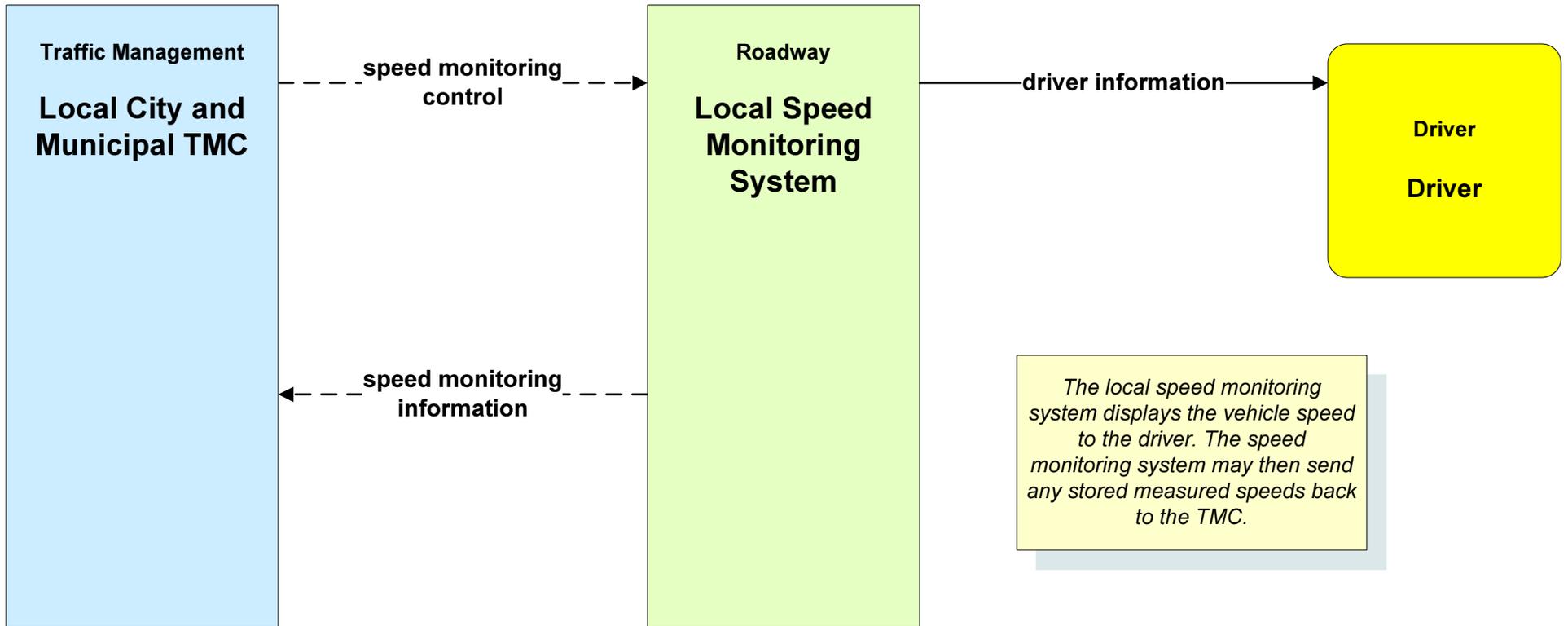
*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*

# ATMS18 - Reversible Lane Management City of Glendale



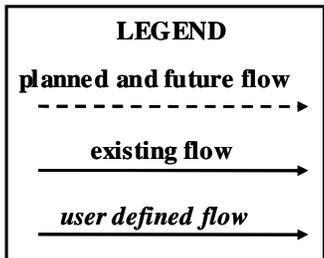
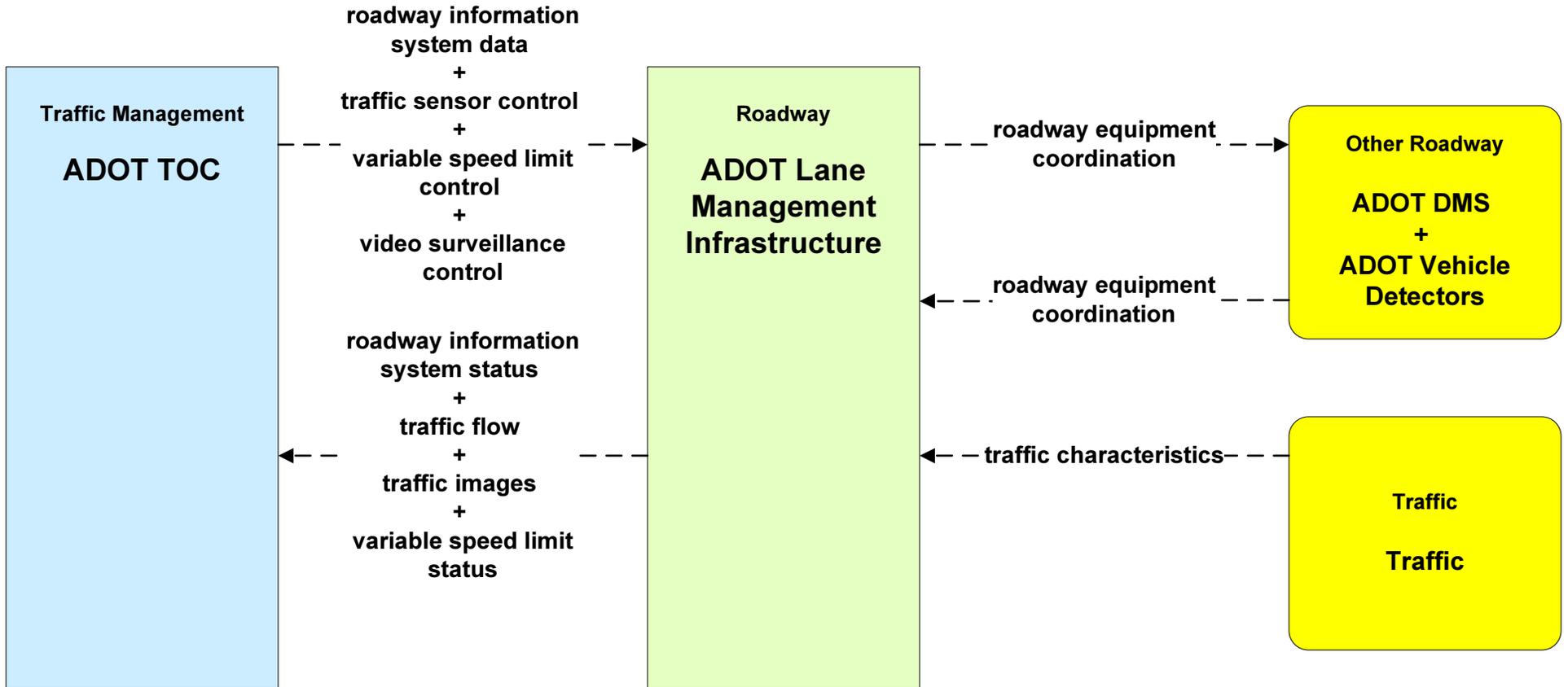
*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*

# ATMS19 - Speed Warning and Enforcement Local Cities and Municipalities



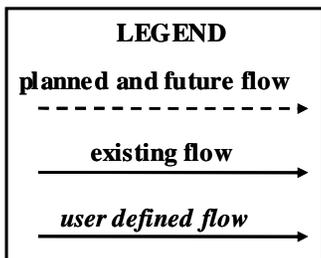
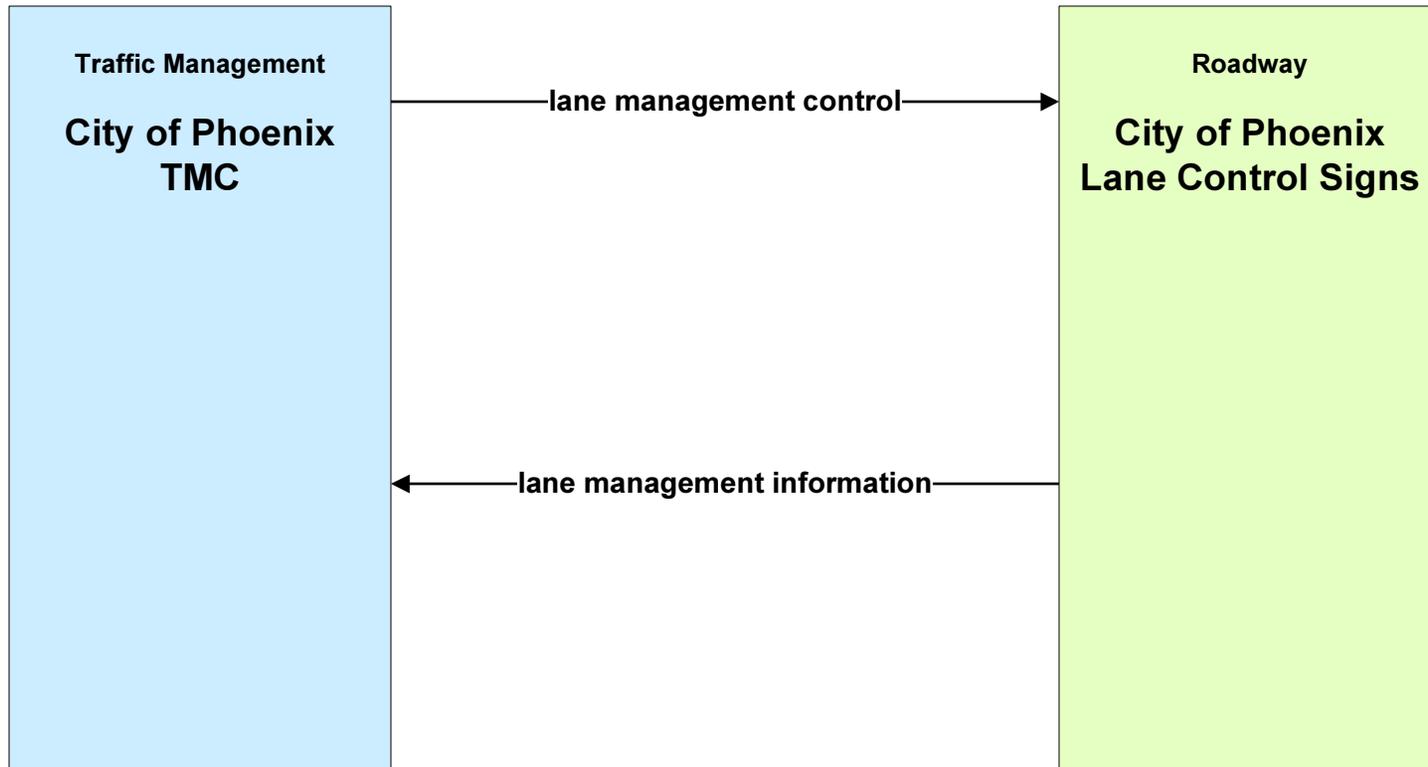
*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*

# ATMS22 – Variable Speed Limits ADOT ICM/ATM



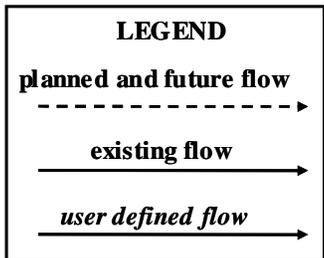
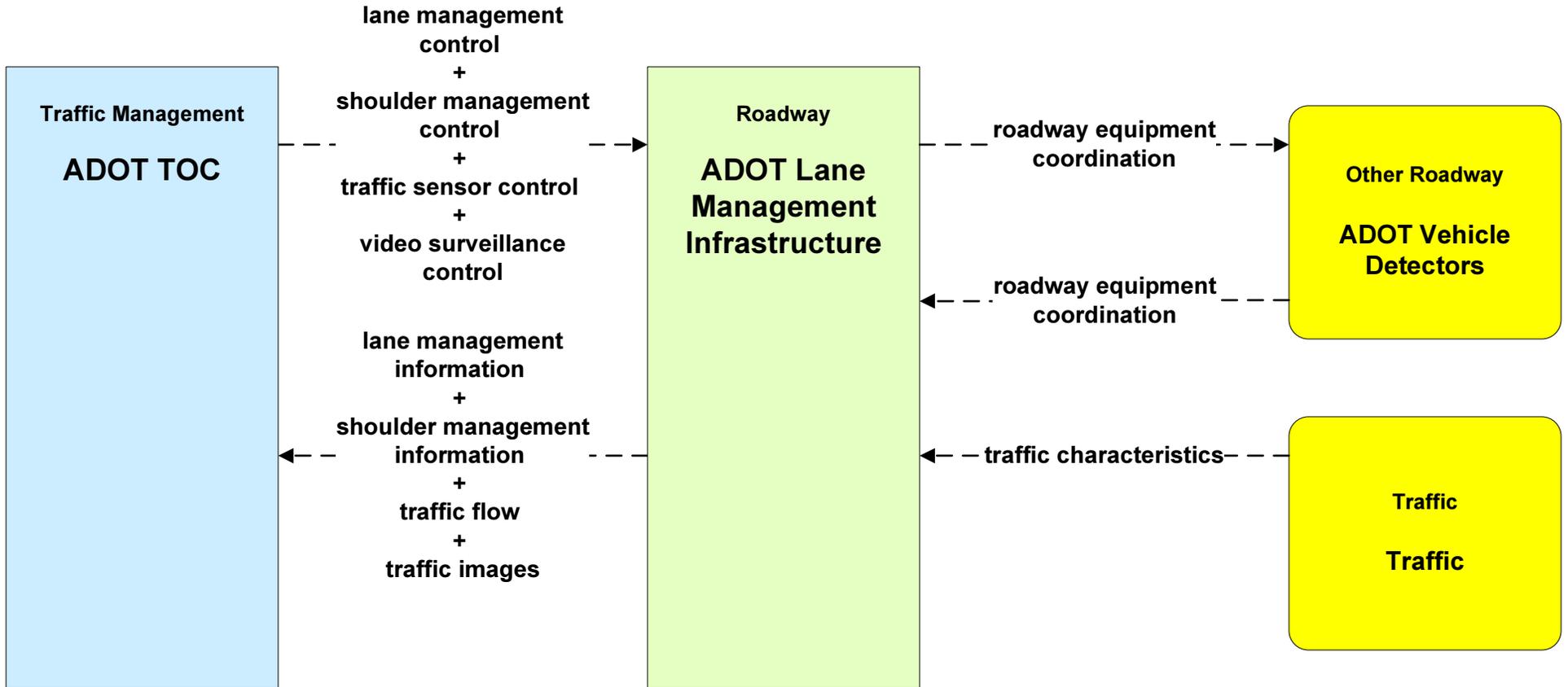
*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*

**ATMS23 – Dynamic Lane Management and Shoulder Use  
City of Phoenix**



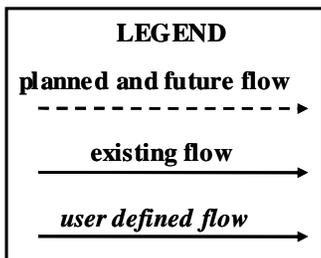
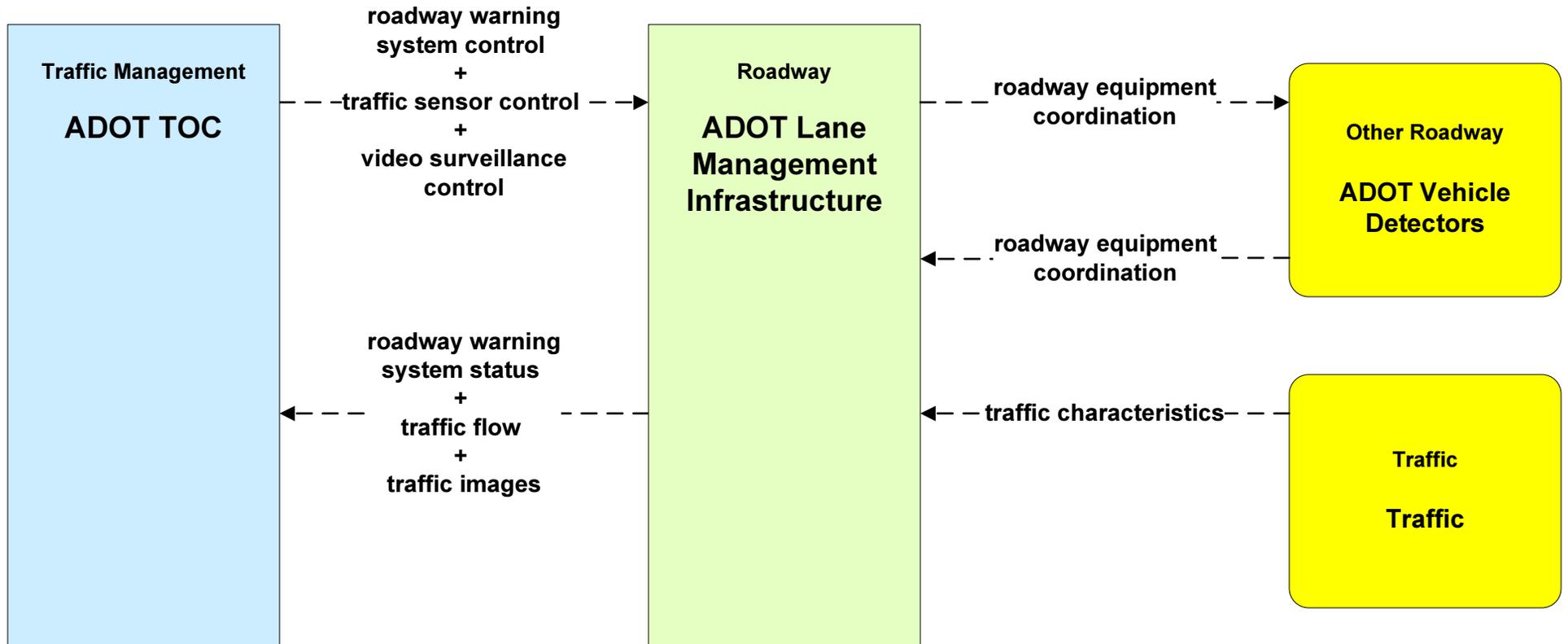
*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*

# ATMS23 – Dynamic Lane Management and Shoulder Use ADOT ICM/ATM



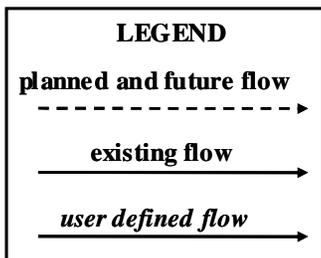
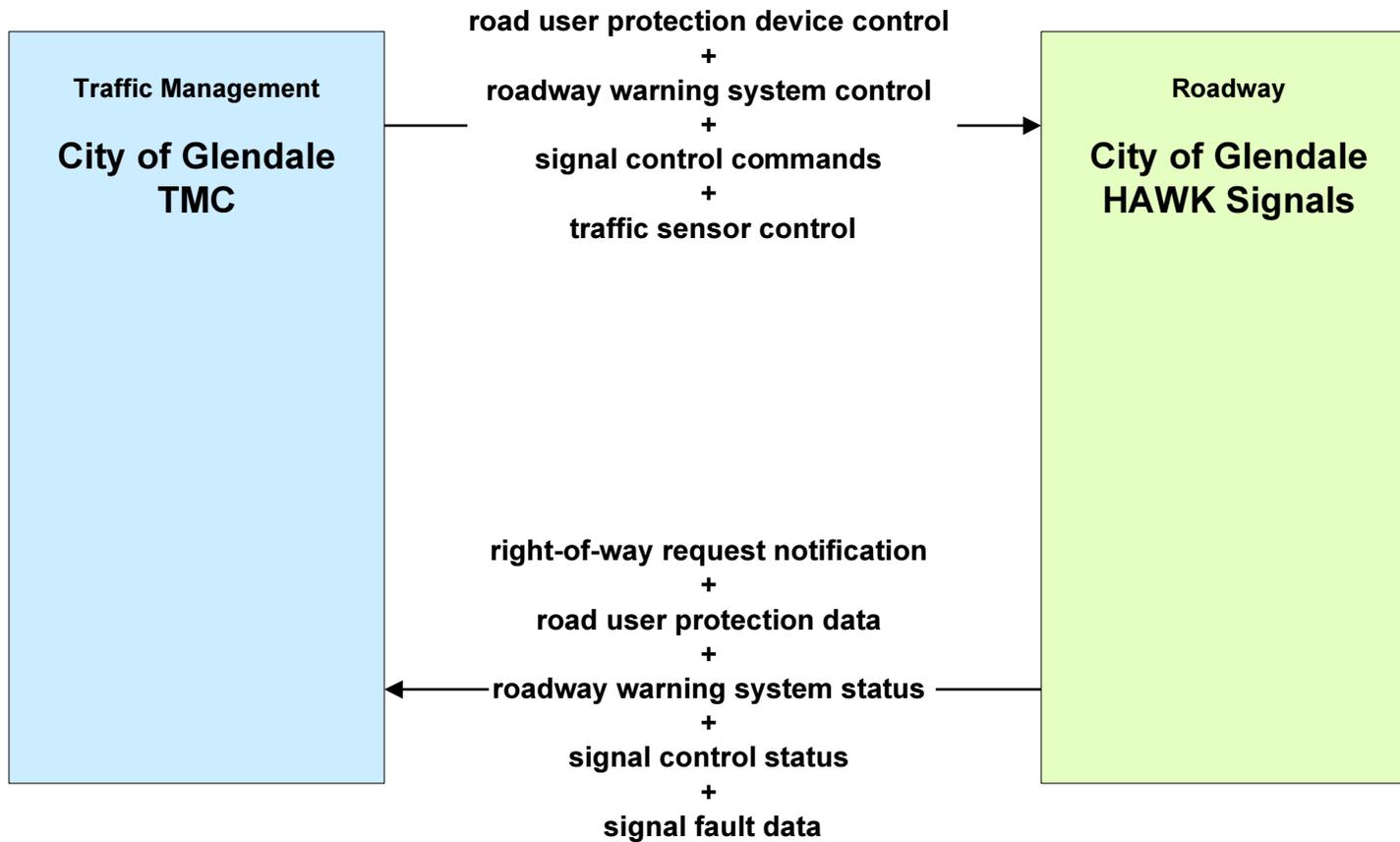
*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*

# ATMS24 – Dynamic Roadway Warning ADOT ICM/ATM



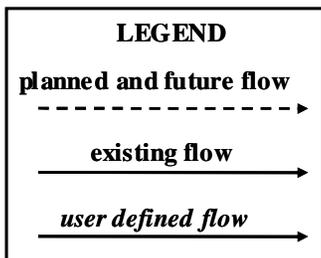
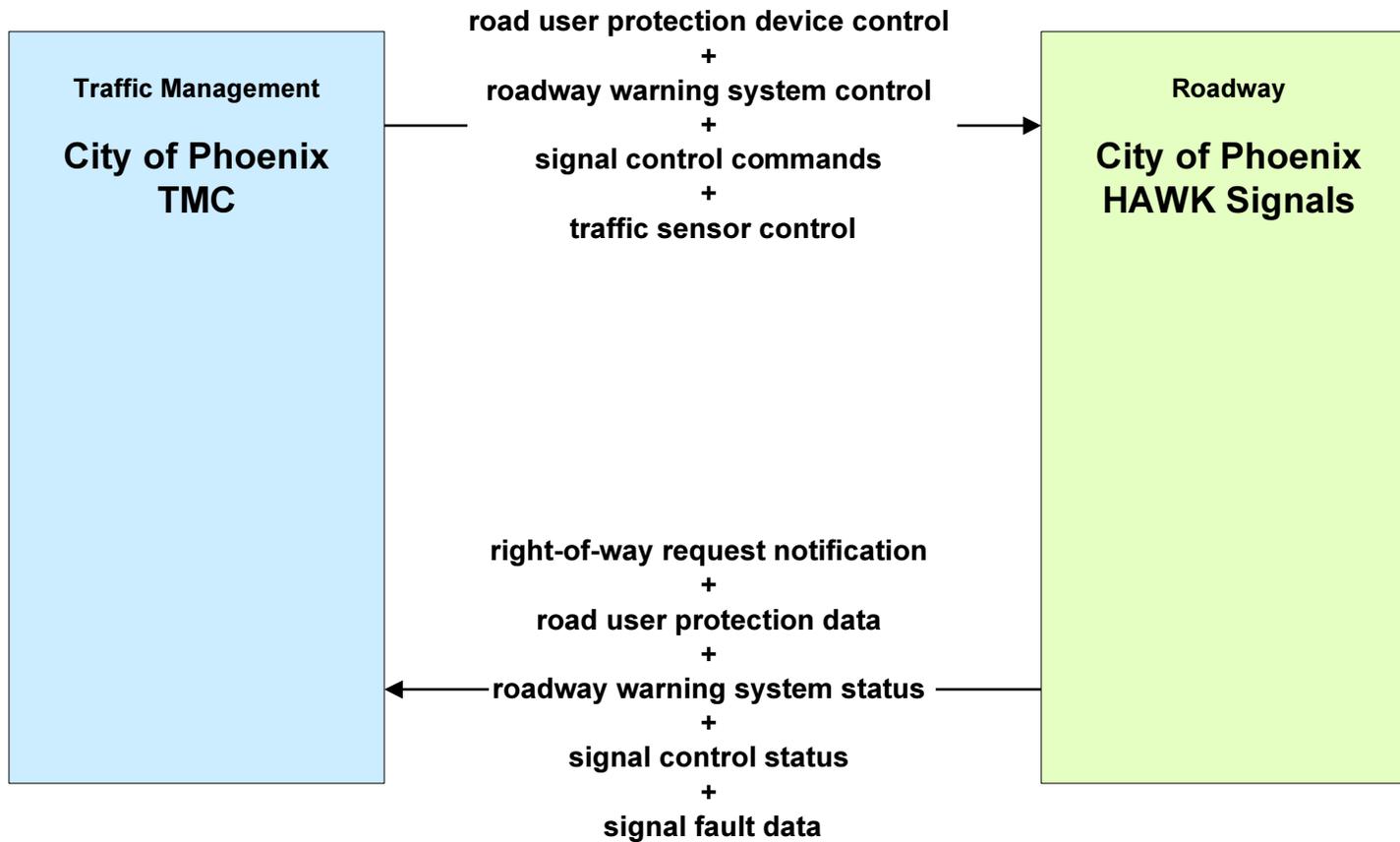
*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*

# ATMS26 – Mixed Use Warning Systems City of Glendale



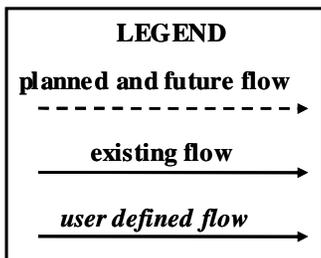
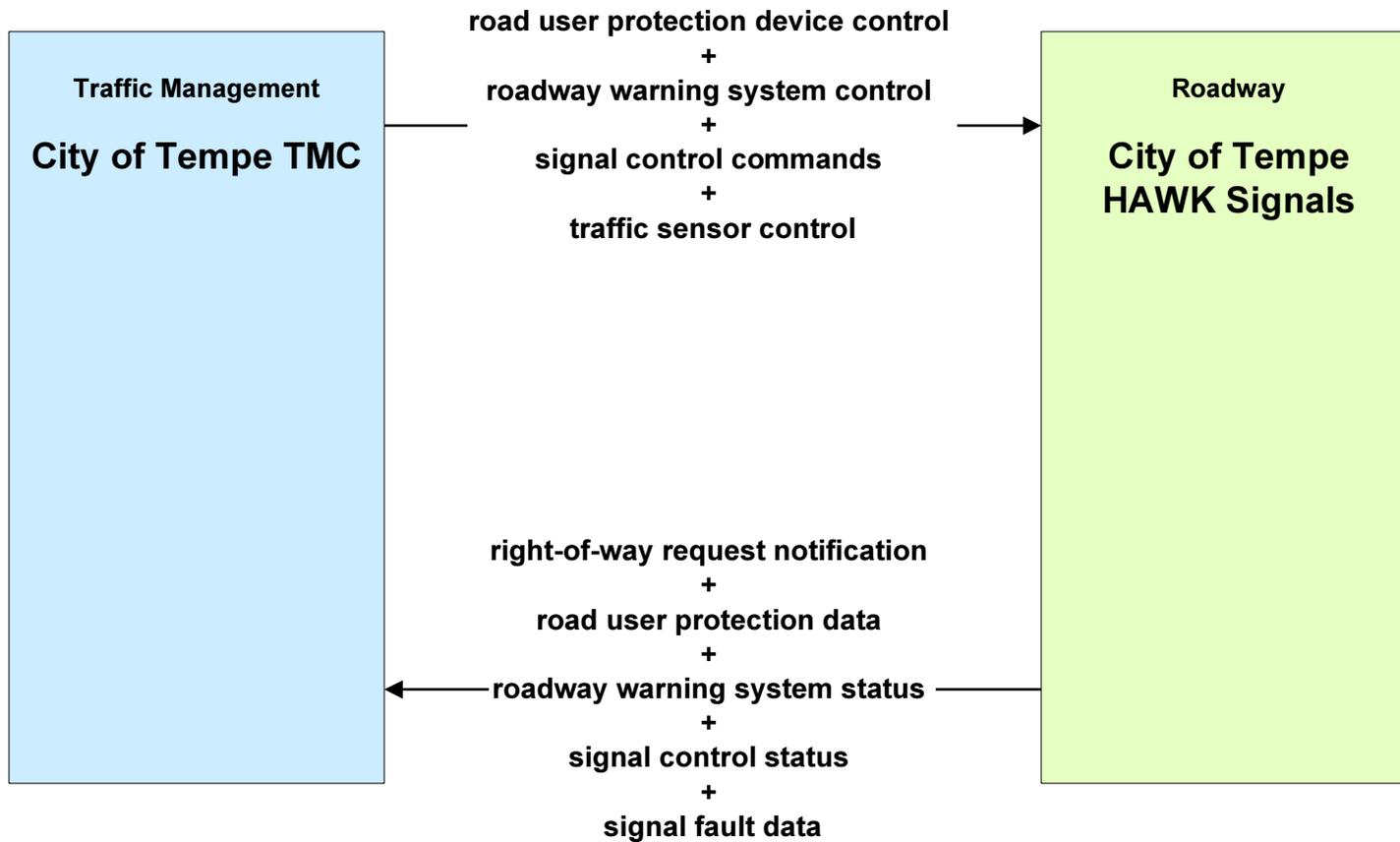
*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*

# ATMS26 – Mixed Use Warning Systems City of Phoenix



*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*

# ATMS26 – Mixed Use Warning Systems City of Tempe



*The planned and future flows are not necessarily being funded. They may reflect the desire to have the data link from either or both sides of the stakeholders.*