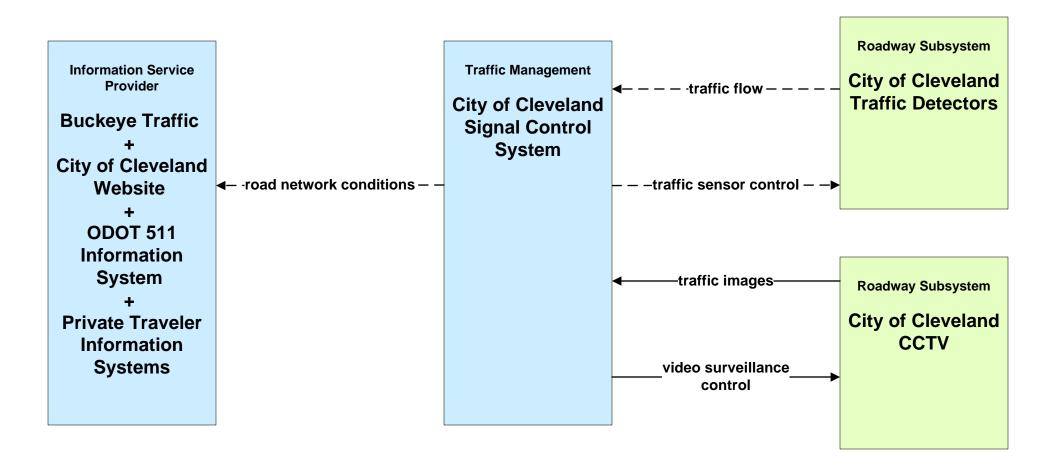
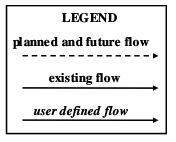
## **NOACA** Regional ITS Architecture

**Customized Market Package Diagrams** 

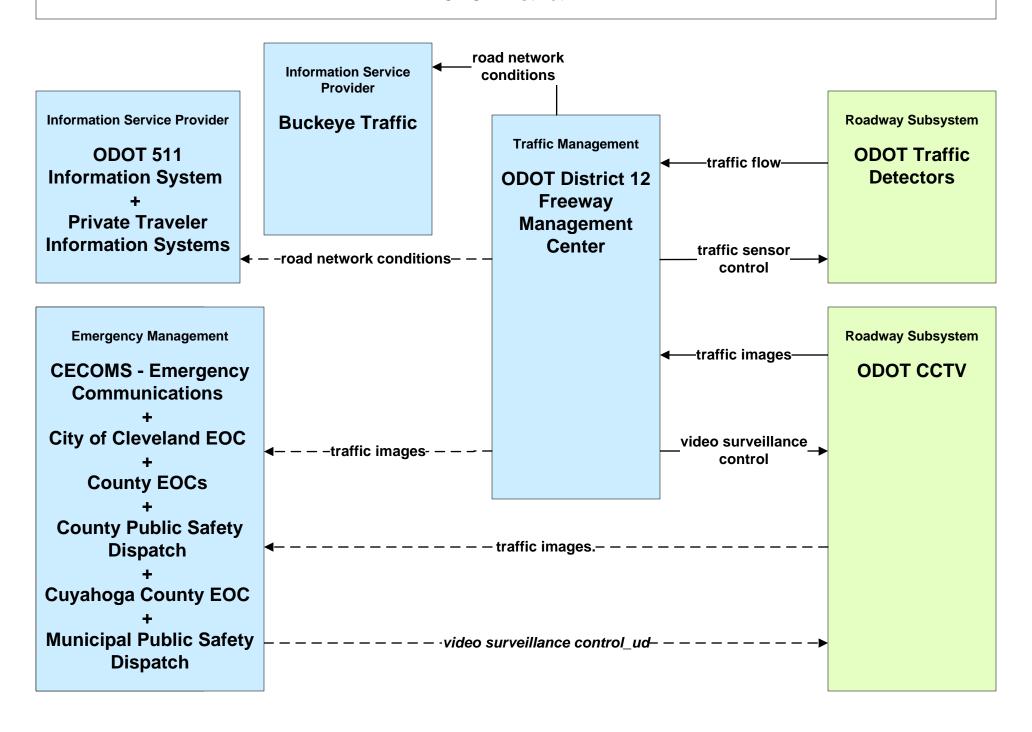
Advanced Traffic Management Systems (ATMS)

#### ATMS01 - Network Surveillance City of Cleveland

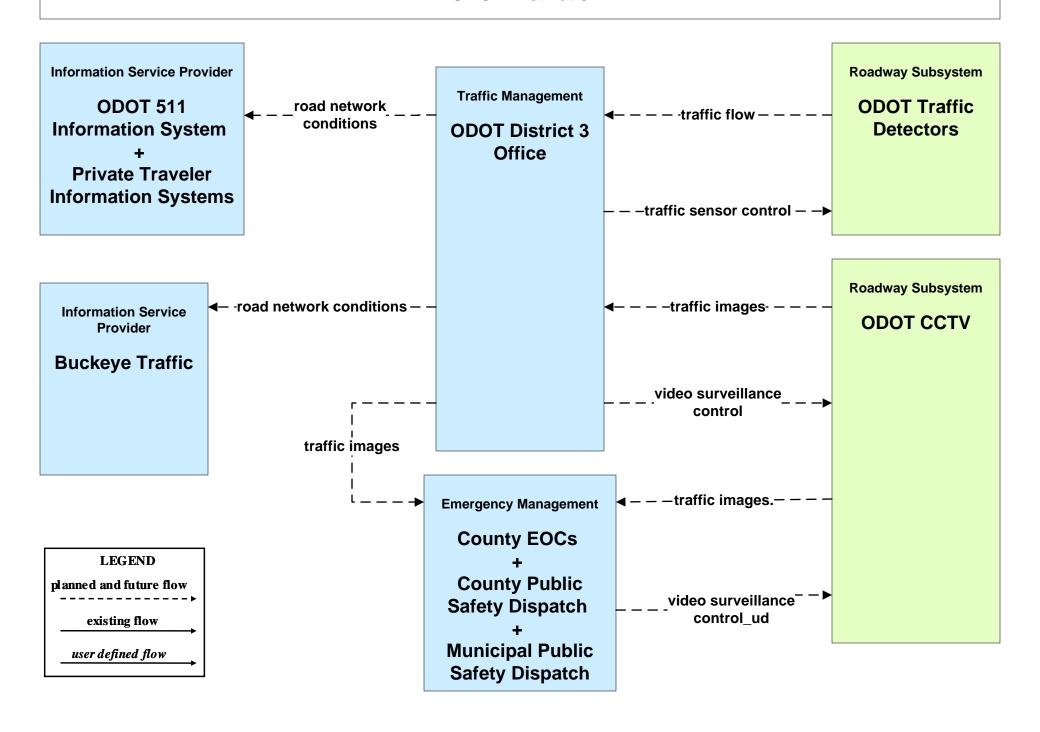




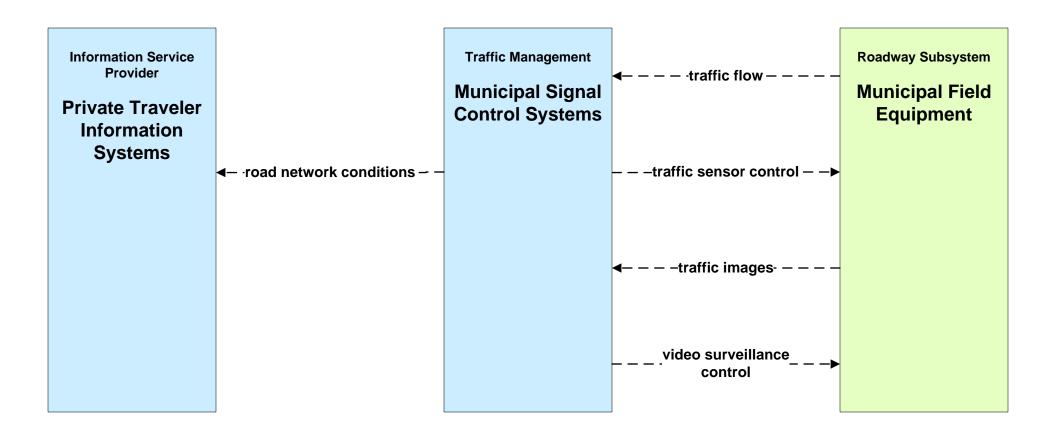
### ATMS01 - Network Surveillance ODOT District 12

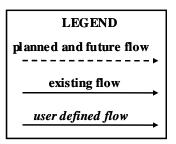


### ATMS01 - Network Surveillance ODOT District 3

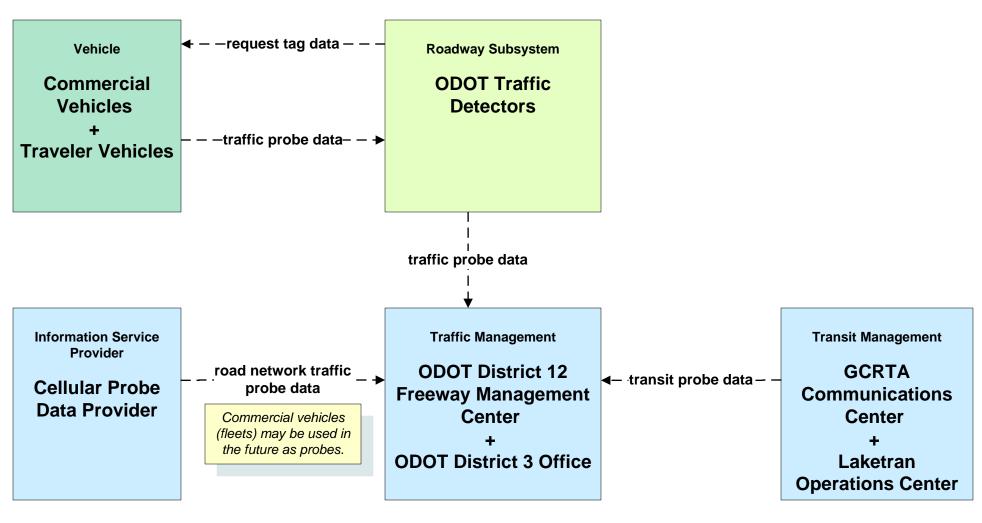


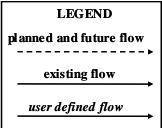
#### ATMS01 - Network Surveillance Municipal Signal Control Systems



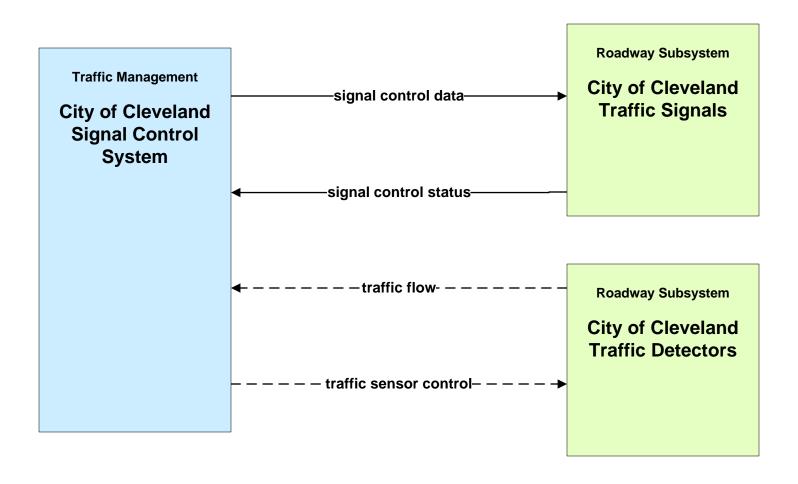


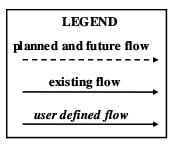
## ATMS02 - Probe Surveillance ODOT Probe System



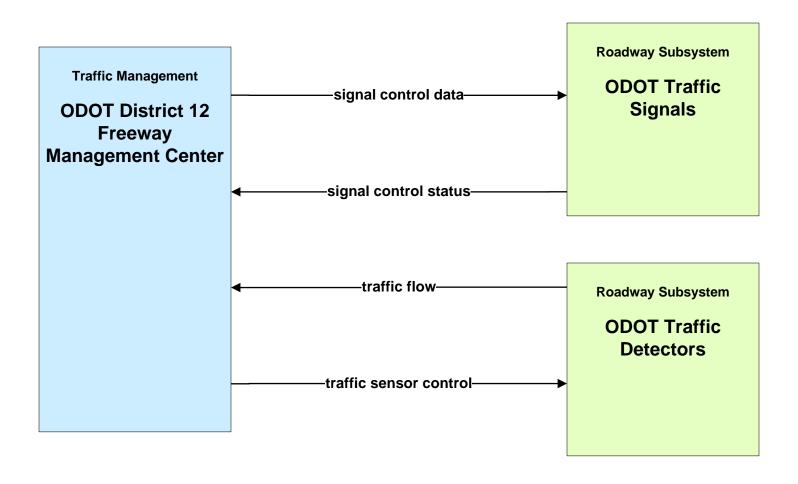


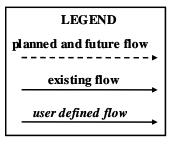
## ATMS03 - Surface Street Control City of Cleveland



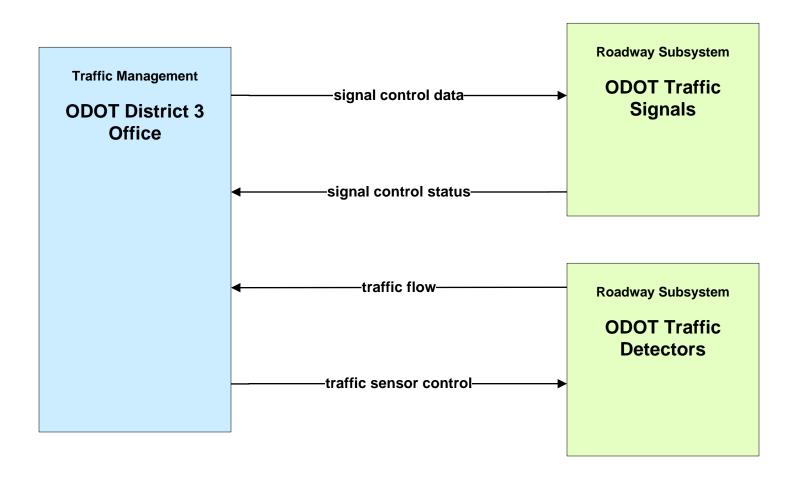


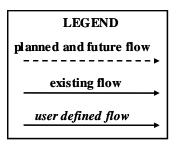
## ATMS03 - Surface Street Control ODOT District 12



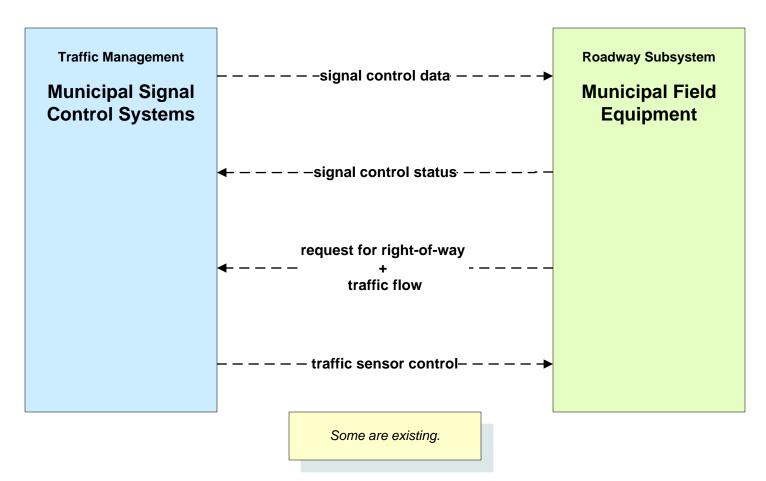


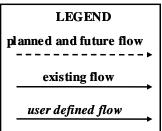
## ATMS03 - Surface Street Control ODOT District 3



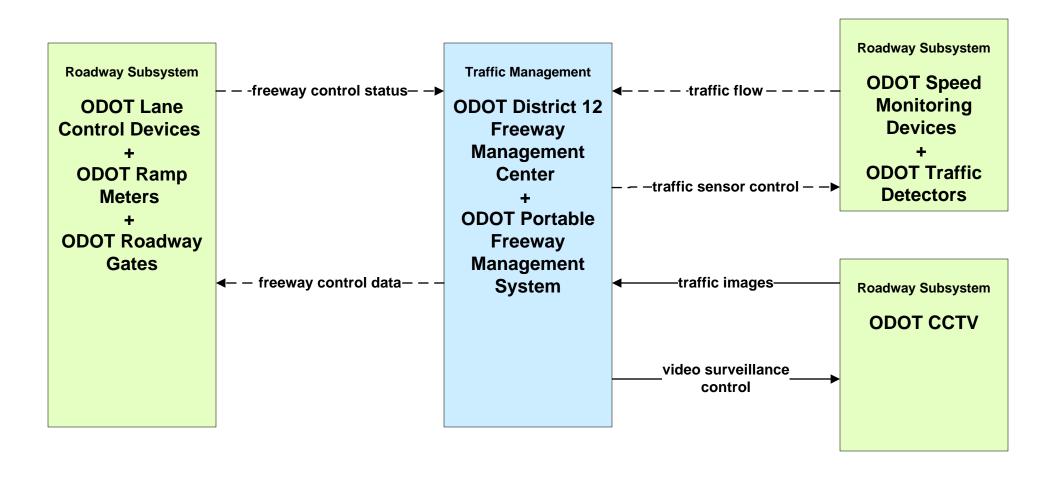


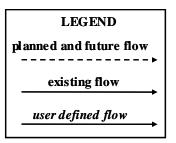
#### ATMS03 - Surface Street Control Municipal Signal Control Systems



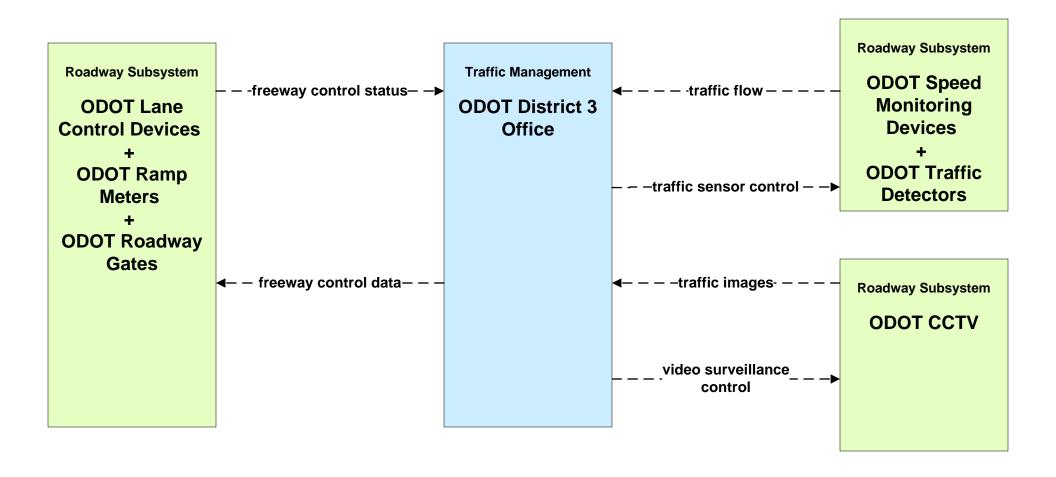


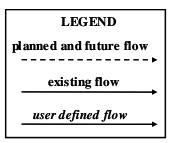
## ATMS04 - Freeway Control ODOT District 12



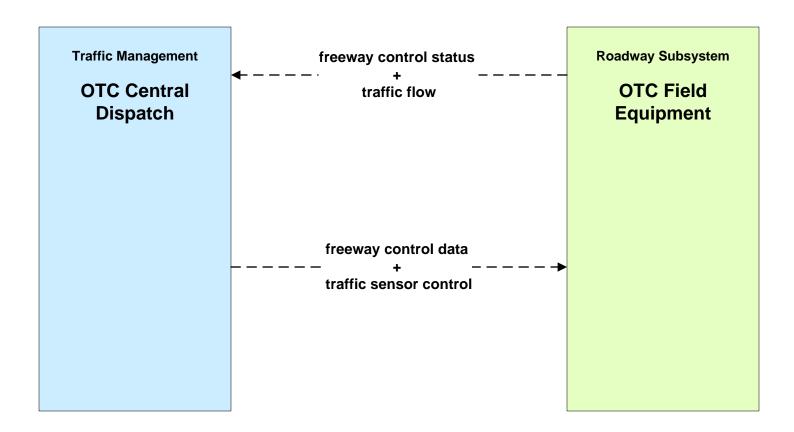


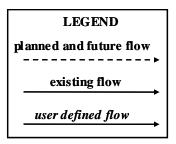
## ATMS04 - Freeway Control ODOT District 3



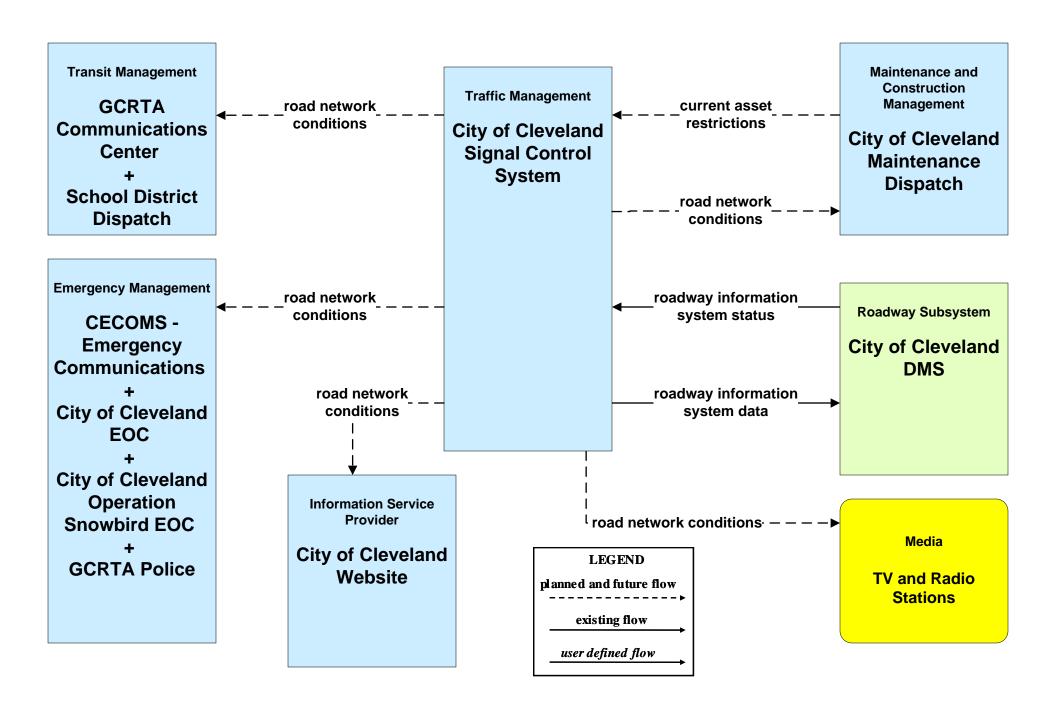


# **ATMS04 - Freeway Control Ohio Turnpike Commission**

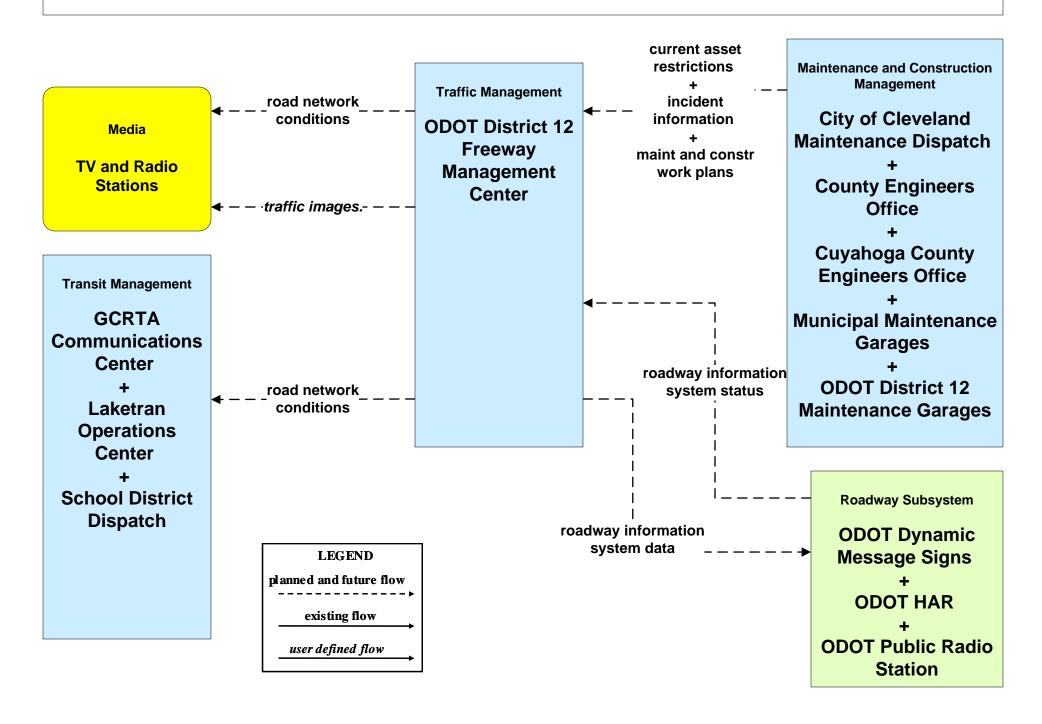




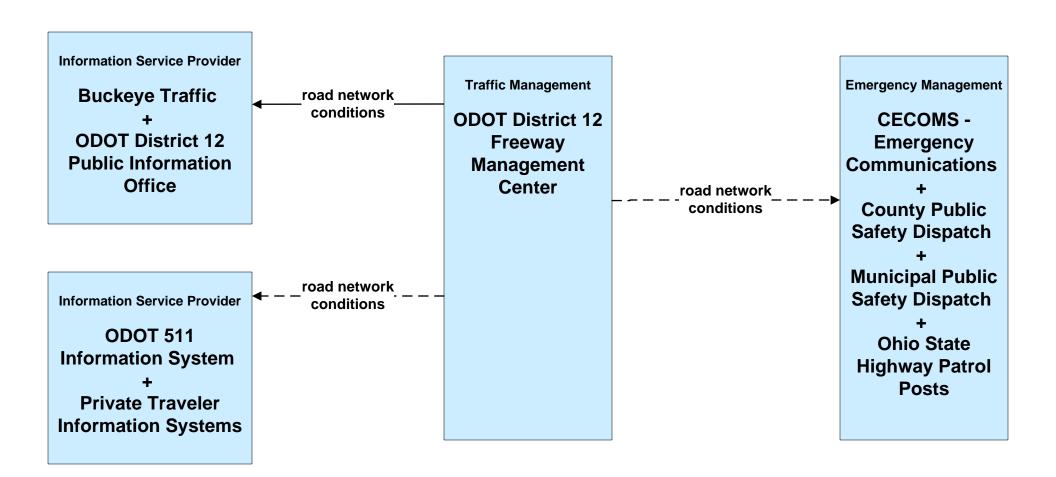
## ATMS06 - Traffic Information Dissemination City of Cleveland

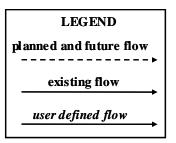


## ATMS06 - Traffic Information Dissemination ODOT District 12 (1 of 2)

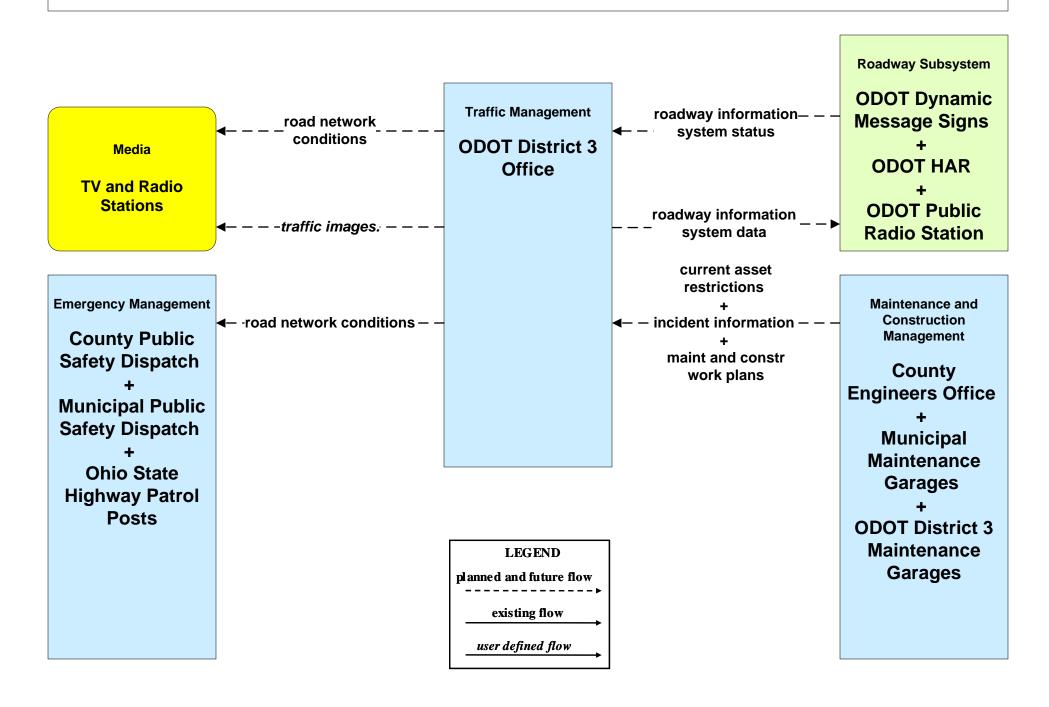


# ATMS06 - Traffic Information Dissemination ODOT District 12 (2 of 2)

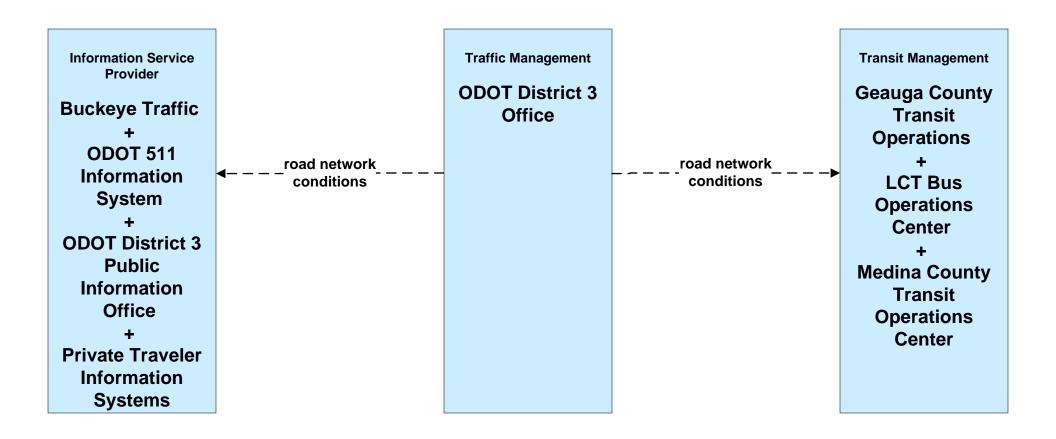


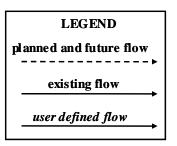


# ATMS06 - Traffic Information Dissemination ODOT District 3 (1 of 2)

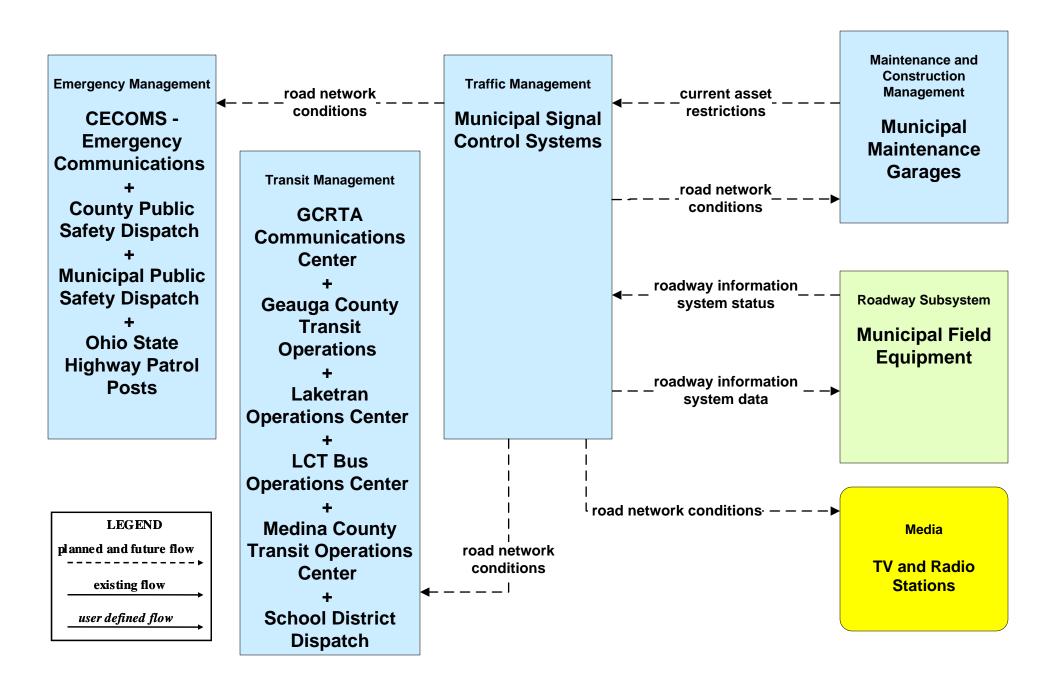


# ATMS06 - Traffic Information Dissemination ODOT District 3 (2 of 2)

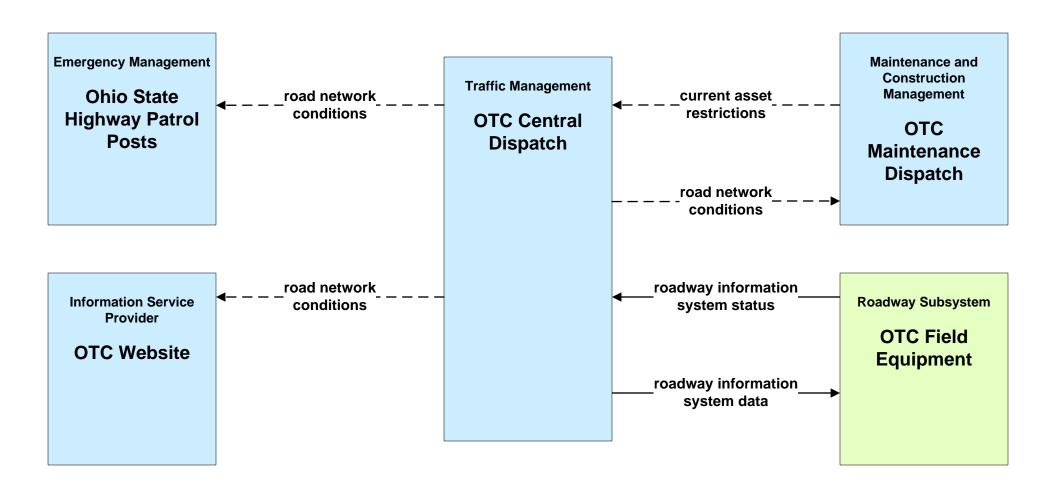


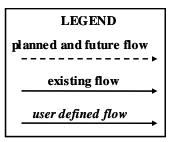


## ATMS06 - Traffic Information Dissemination Municipal Signal Control Systems

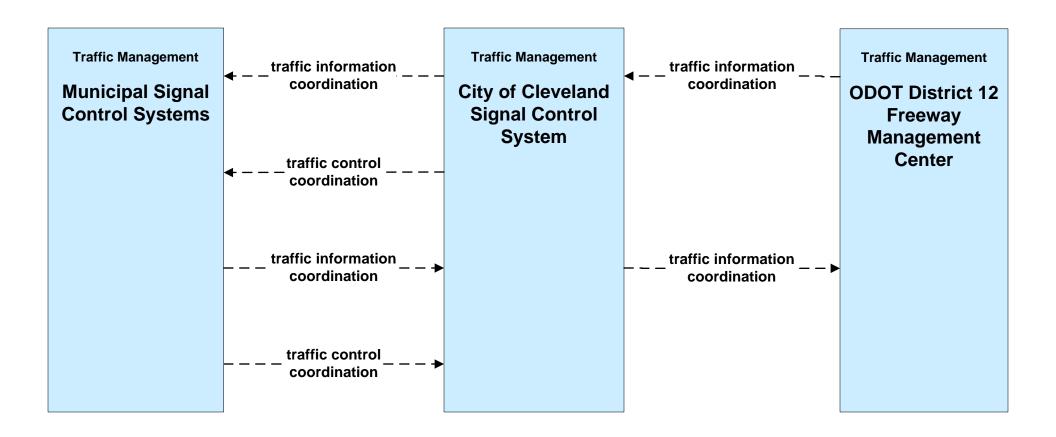


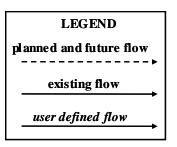
# ATMS06 - Traffic Information Dissemination Ohio Turnpike Commission



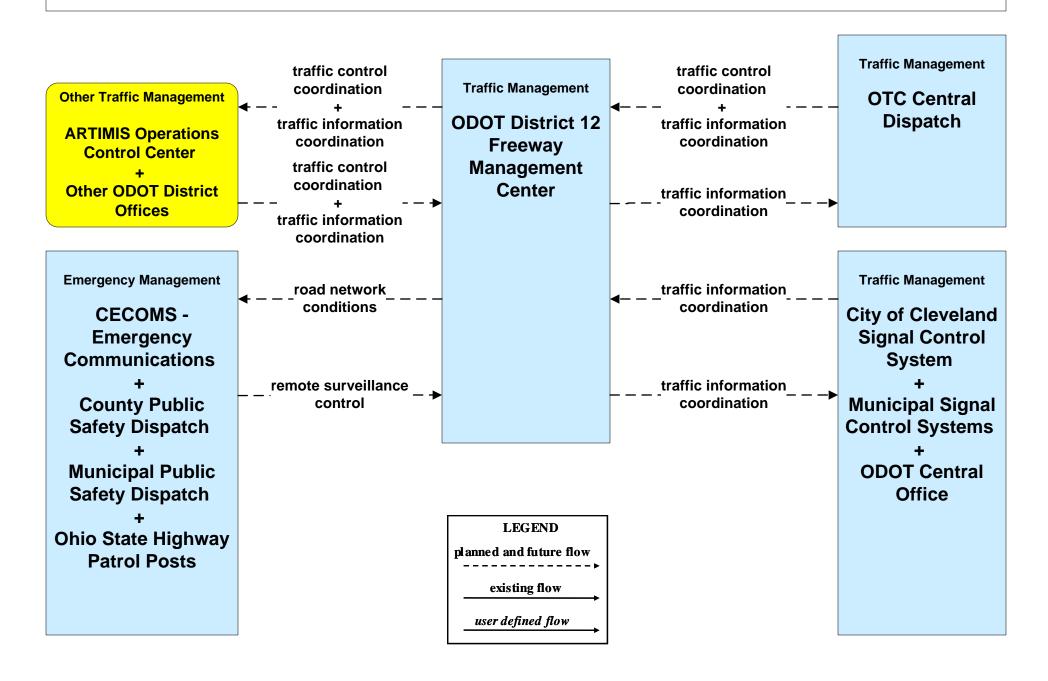


## ATMS07 - Regional Traffic Control City of Cleveland

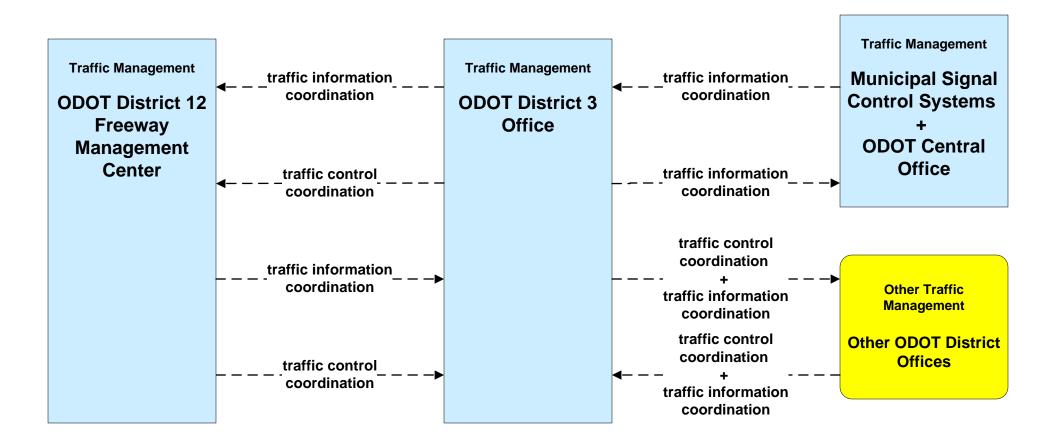


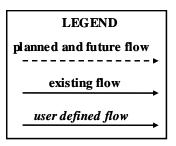


## ATMS07 - Regional Traffic Control ODOT District 12

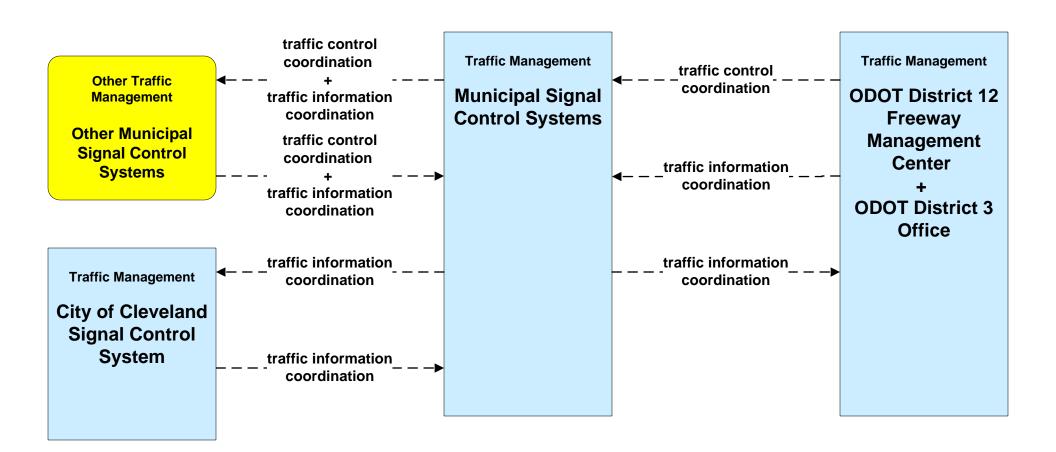


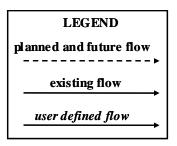
## ATMS07 - Regional Traffic Control ODOT District 3





## ATMS07 - Regional Traffic Control Municipal Signal Control Systems





#### 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

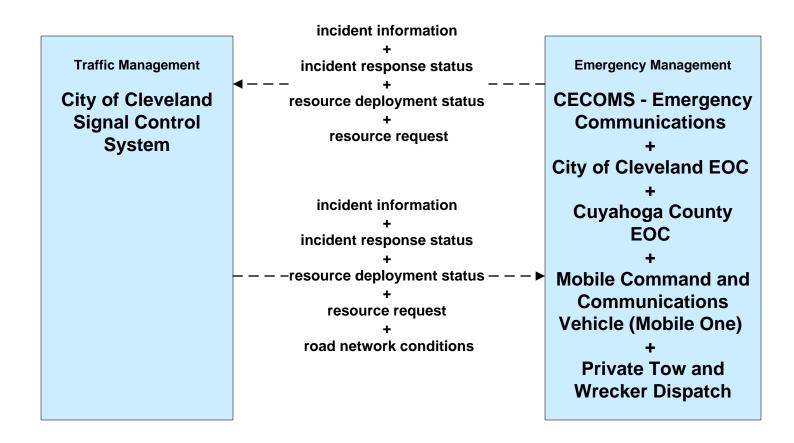
Emergency Management Emergency Management

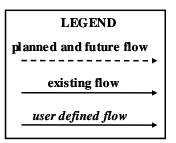
### <u>EM2 Covered</u> Emergency Vehicle Preemption

### ATMS08 - Incident Management

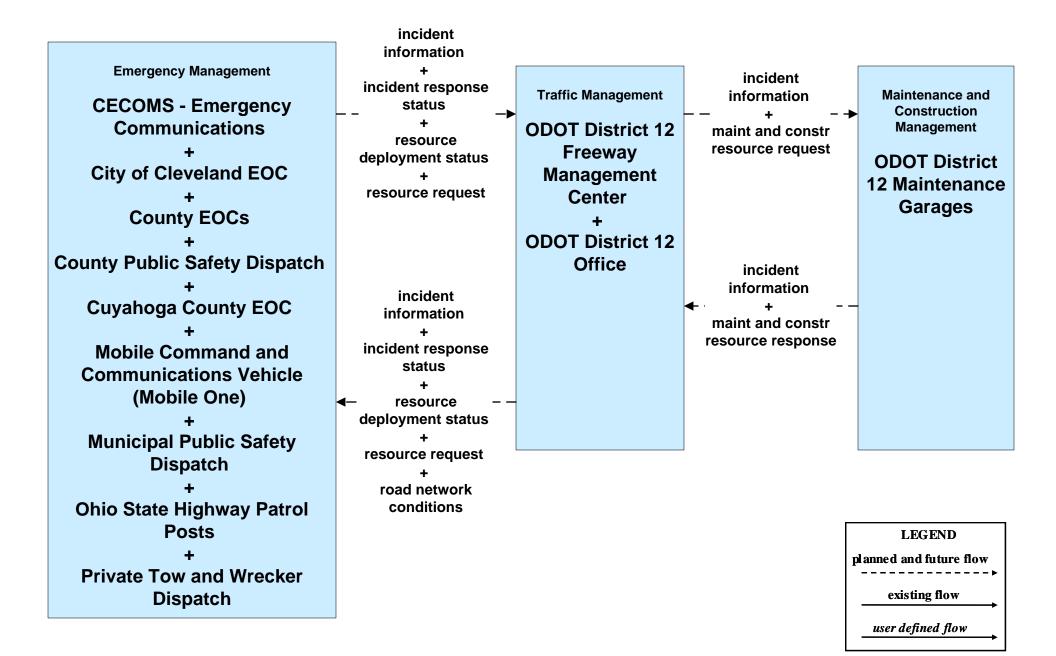
Emergency Management Traffic Management

## ATMS08 - Incident Management City of Cleveland (EM to TM)

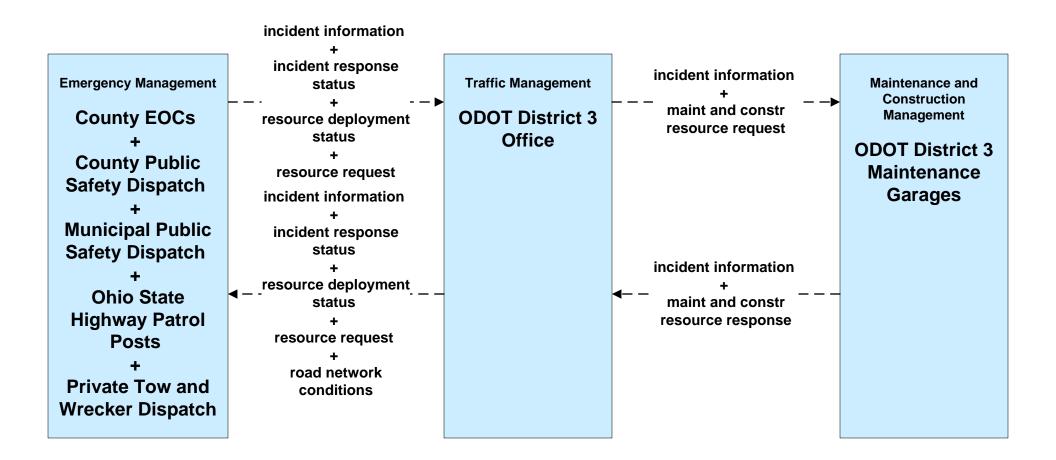


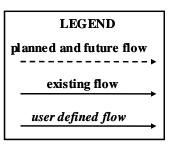


## ATMS08 - Incident Management ODOT District 12 (EM to TM)

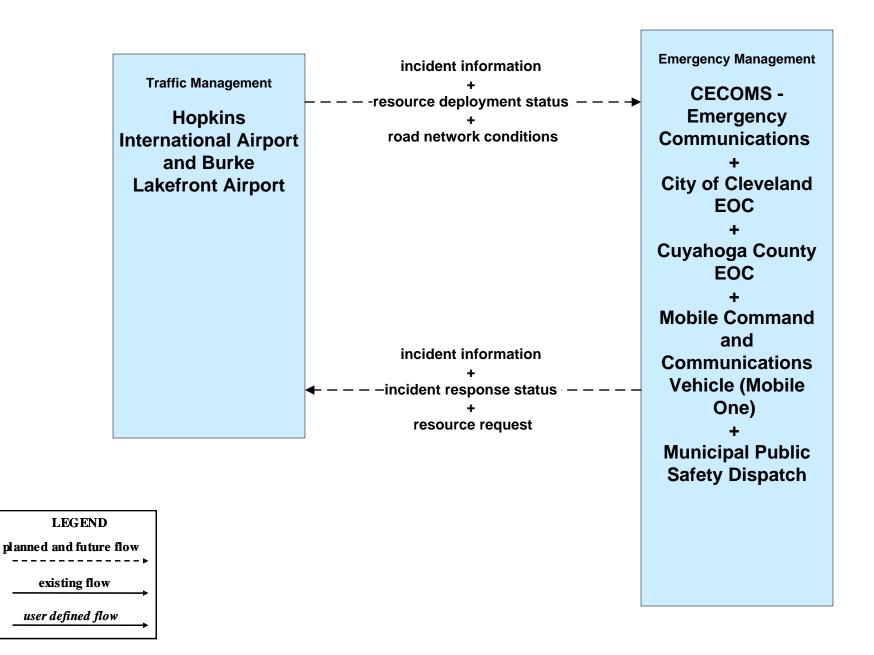


## ATMS08 - Incident Management ODOT District 3 (EM to TM)

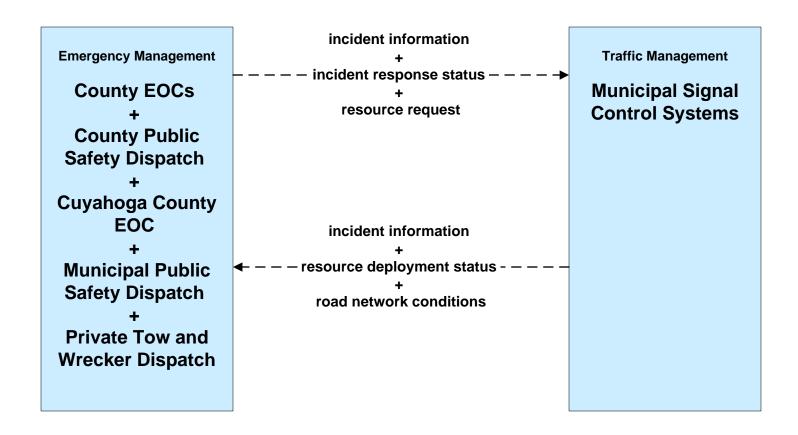


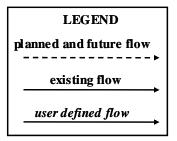


## ATMS08 - Incident Management Hopkins International and Burke Lakefront Airport (EM to TM)

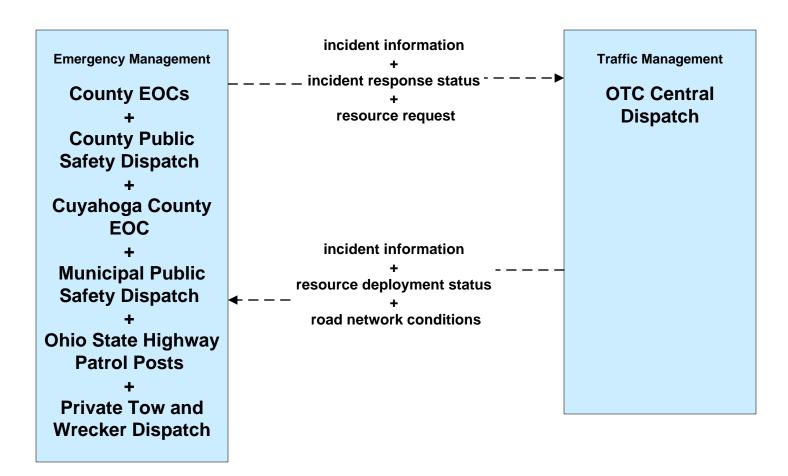


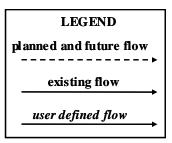
#### ATMS08 - Incident Management Municipal Signal Systems (EM to TM)





# ATMS08 - Incident Management Ohio Turnpike Commission (EM to TM)

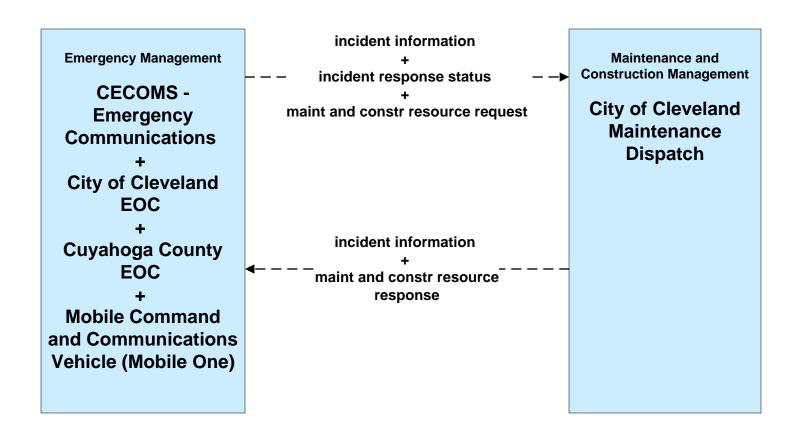


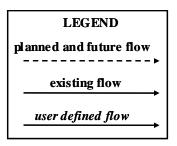


### ATMS08 - Incident Management

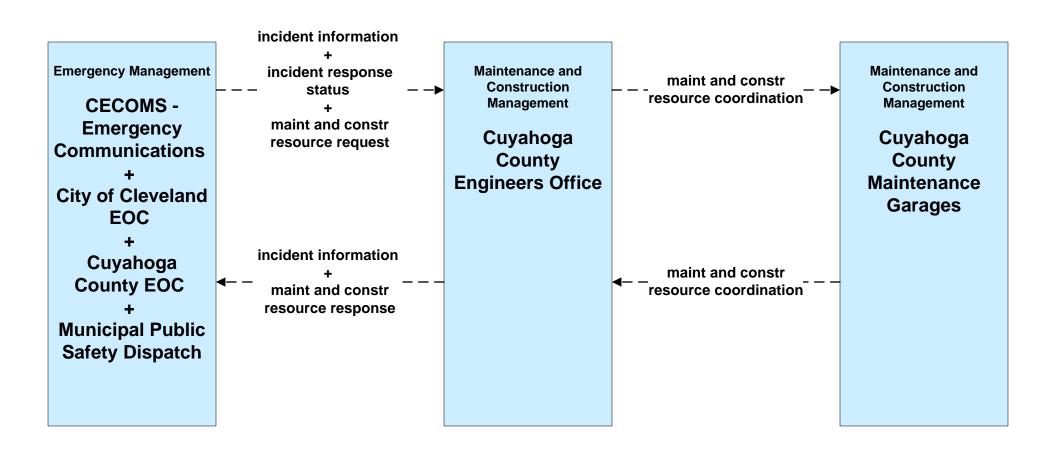
Emergency Management Maintenance and Construction Management

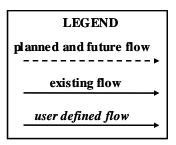
## ATMS08 - Incident Management City of Cleveland Maintenance Dispatch (EM to MCM)



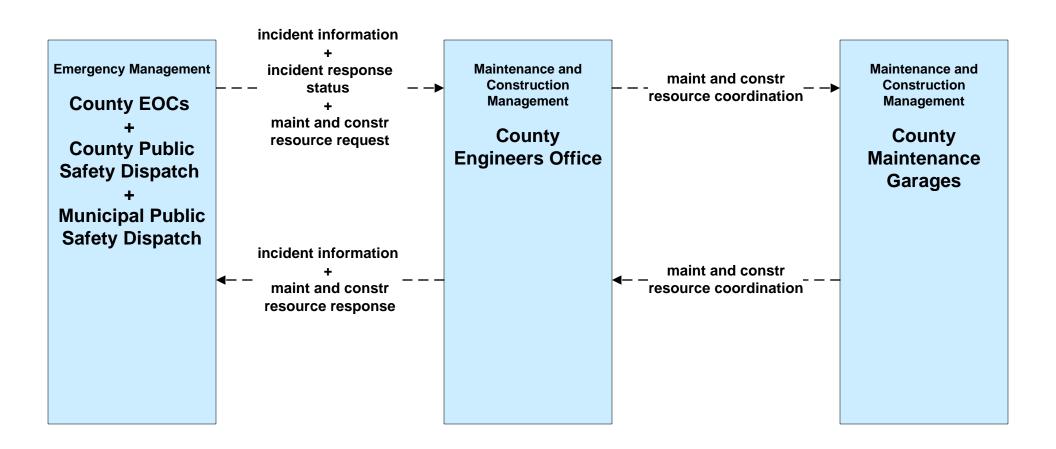


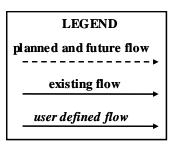
## ATMS08 - Incident Management Cuyahoga County Maintenance Garages (EM to MCM)



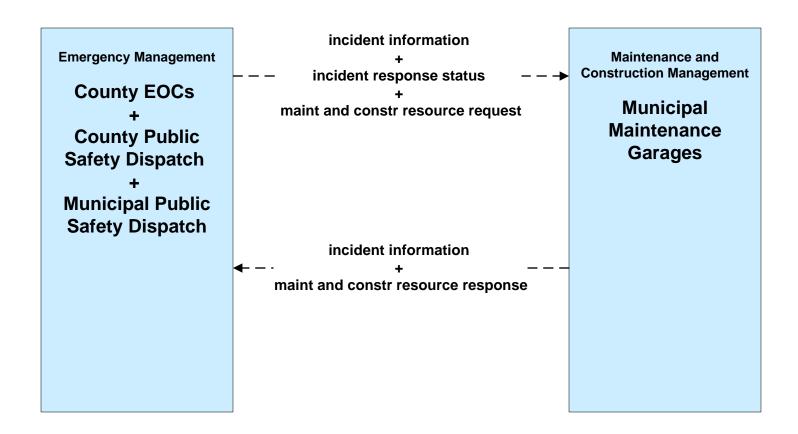


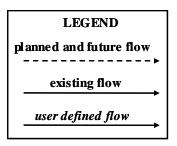
## **ATMS08 - Incident Management County Engineers (EM to MCM)**



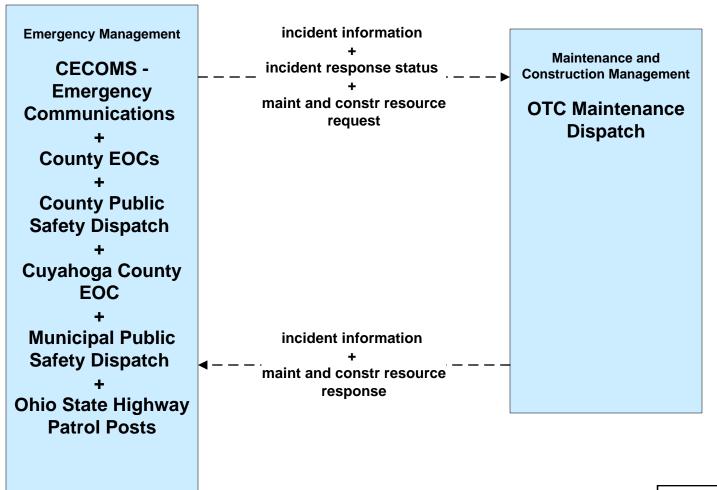


### ATMS08 - Incident Management Municipal Maintenance Garages (EM to MCM)





### ATMS08 - Incident Management Ohio Turnpike Commission (EM to MCM)



LEGEND

planned and future flow

existing flow

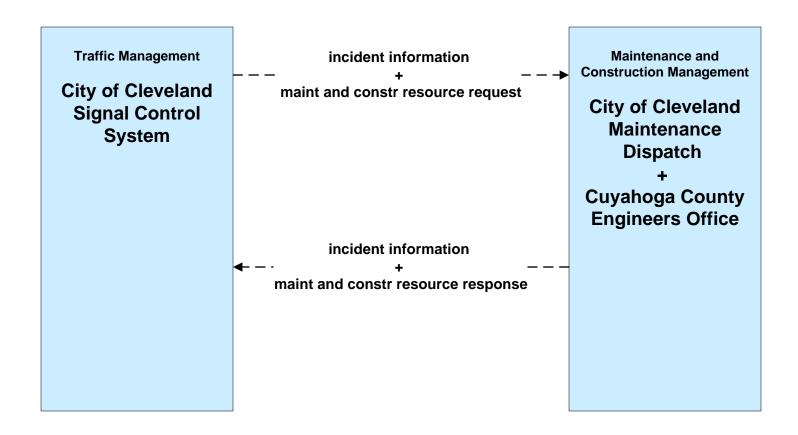
user defined flow

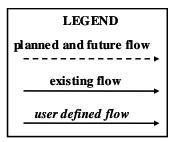
### <u>ATMS08 - Incident Management</u>

Traffic Management Maintenance and Construction Management

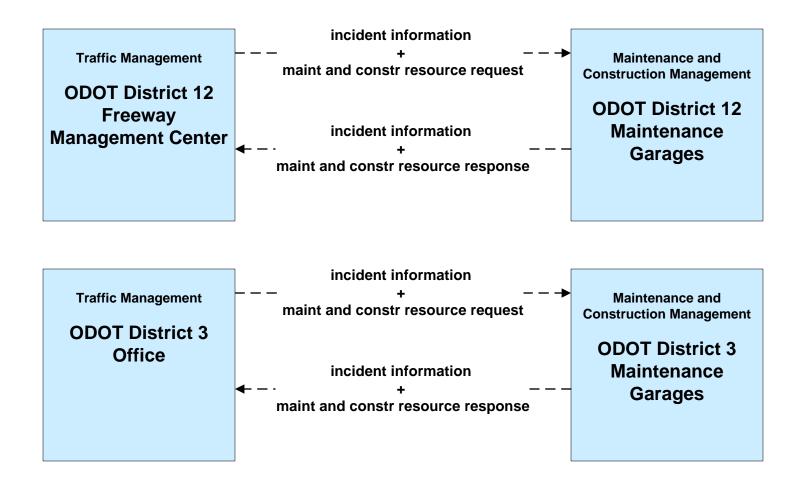


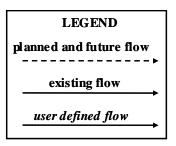
### ATMS08 - Incident Management City of Cleveland (TM to MCM)



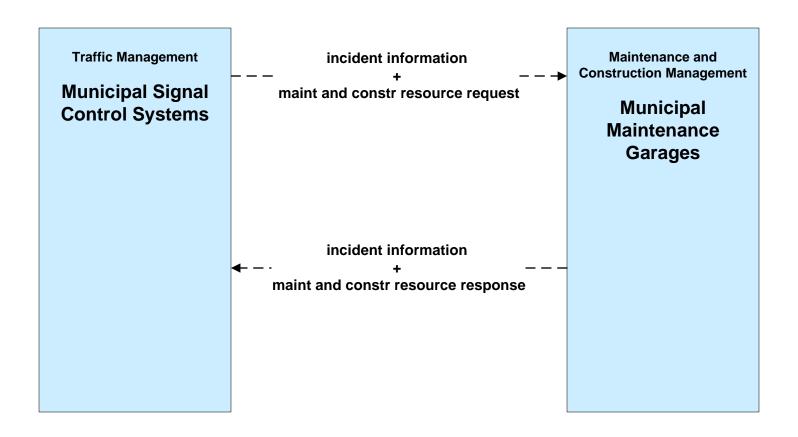


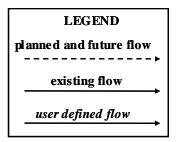
### ATMS08 - Incident Management ODOT Districts 3 and 12 (TM to MCM)



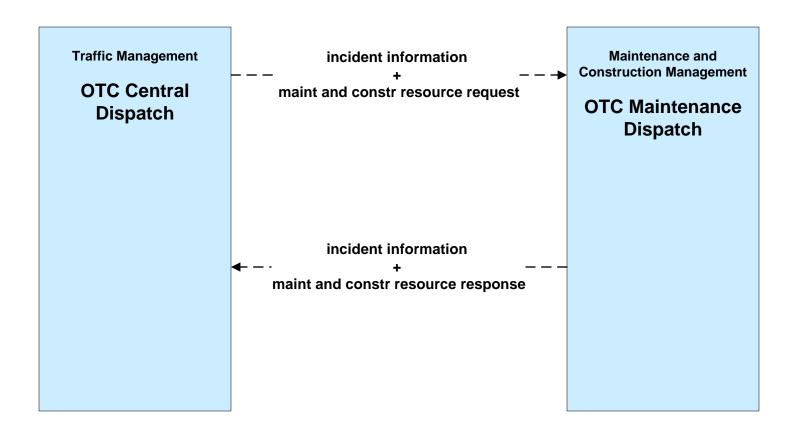


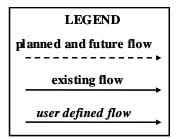
## ATMS08 - Incident Management Municipal Signal Control Systems (TM to MCM)



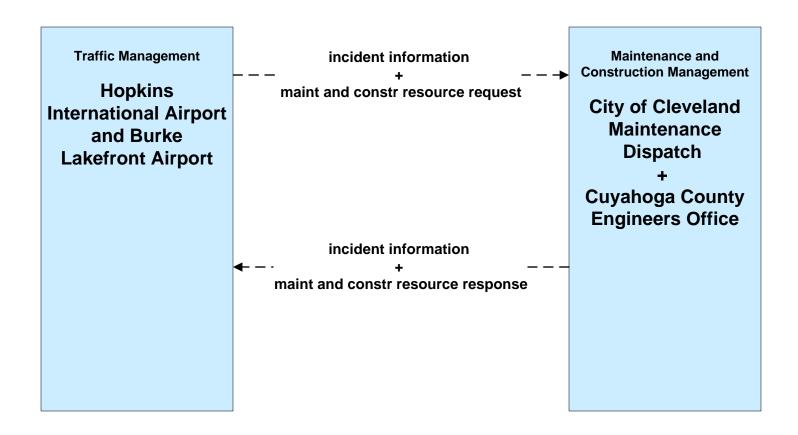


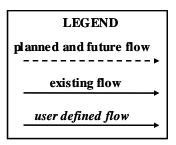
# ATMS08 - Incident Management Ohio Turnpike Commission (TM to MCM)





## ATMS08 - Incident Management Hopkins International Airport and Burke Lakefront Airport (TM to MCM)



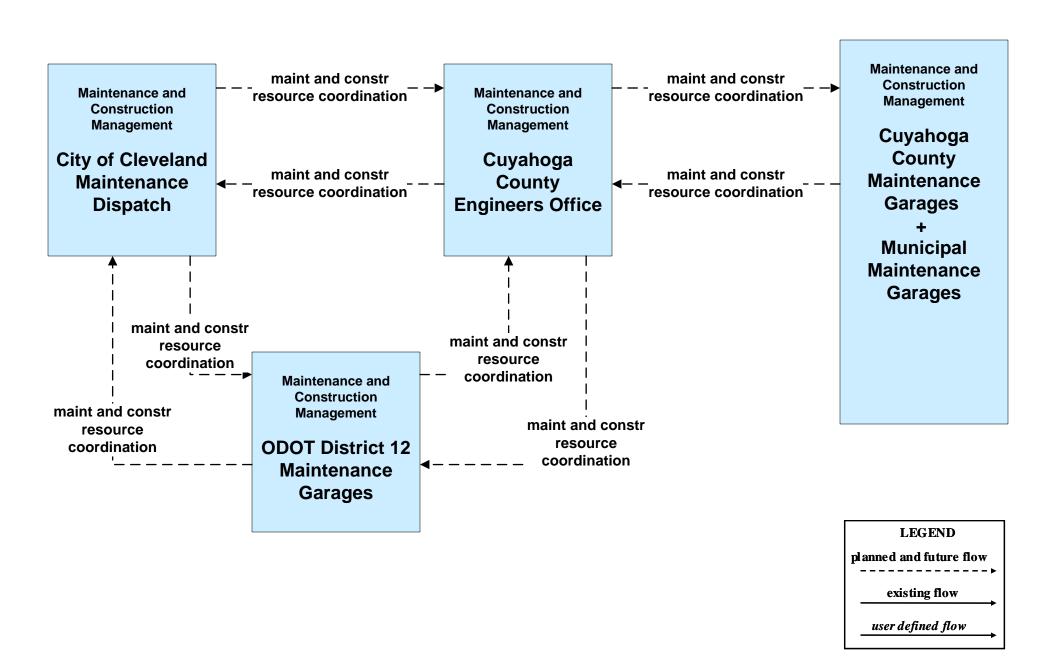


### <u>ATMS08 - Incident Management</u>

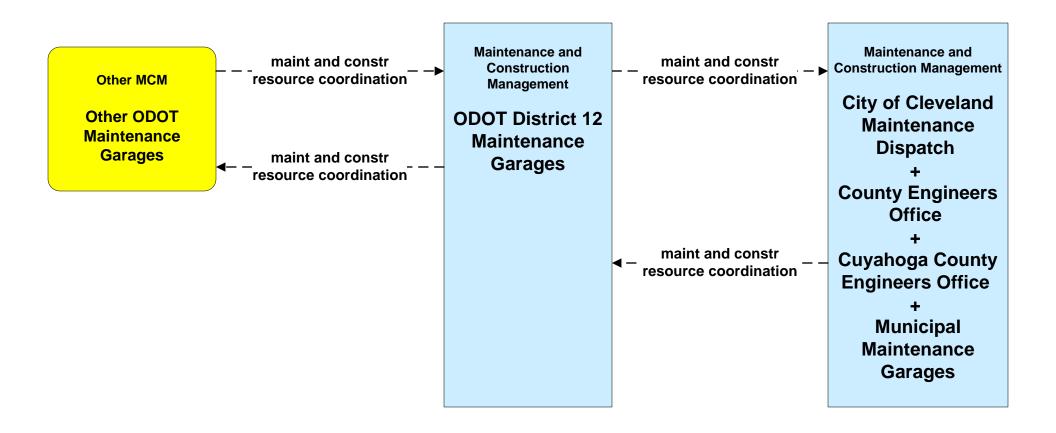
Maintenance and Construction Management
Construction Management

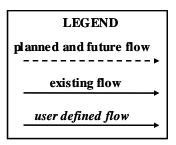
Maintenance and

# ATMS08 - Incident Management City of Cleveland and Cuyahoga County (MCM to MCM)

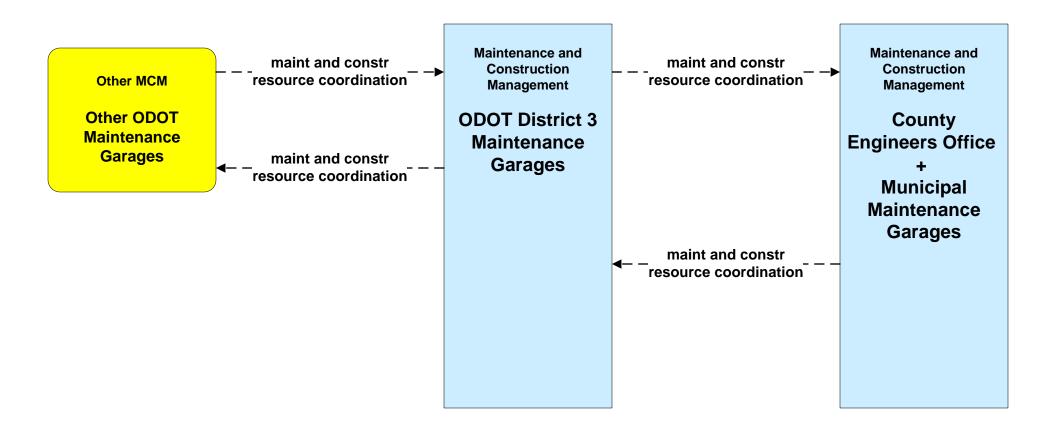


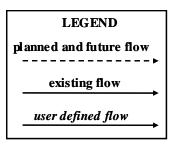
### ATMS08 - Incident Management ODOT District 12 Maintenance Garages (MCM to MCM)



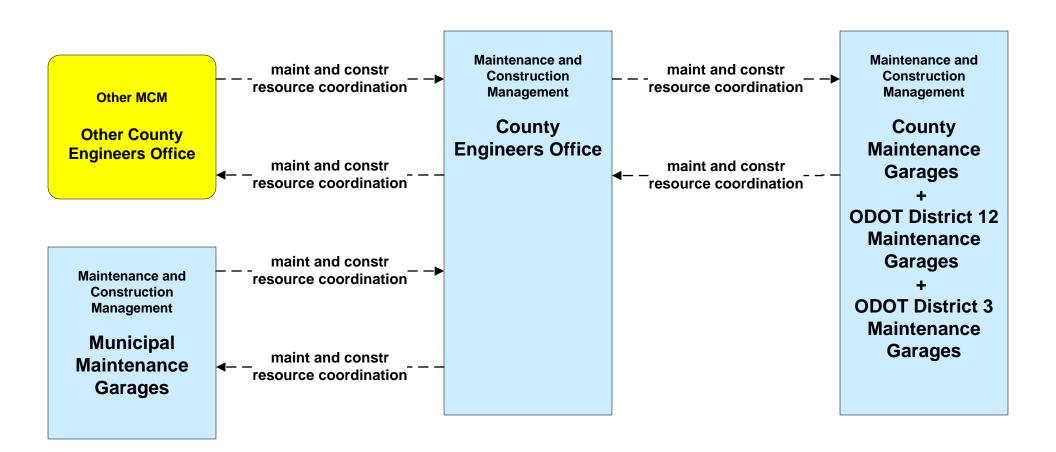


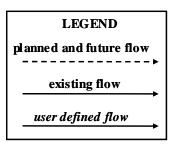
## ATMS08 - Incident Management ODOT District 3 Maintenance Garages (MCM to MCM)



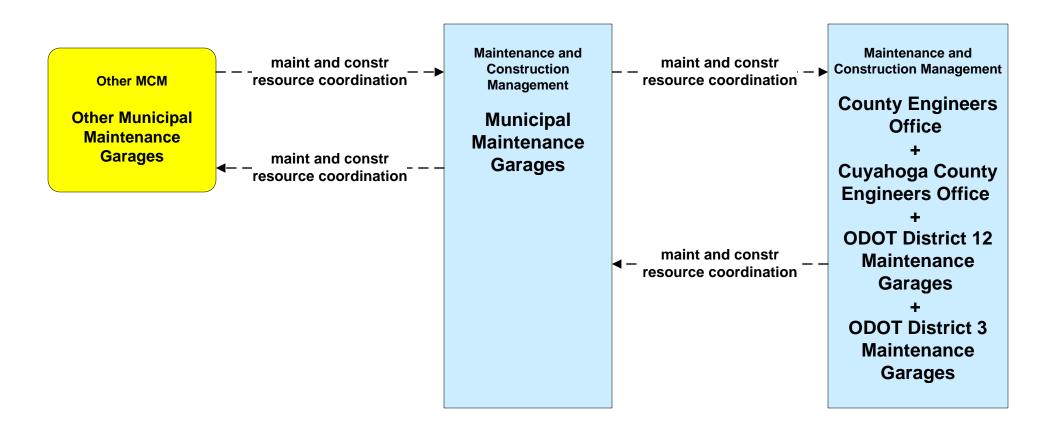


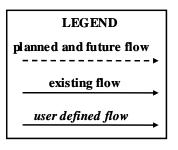
## ATMS08 - Incident Management County Engineers Office (MCM to MCM)





## ATMS08 - Incident Management Municipal Maintenance Garages (MCM to MCM)

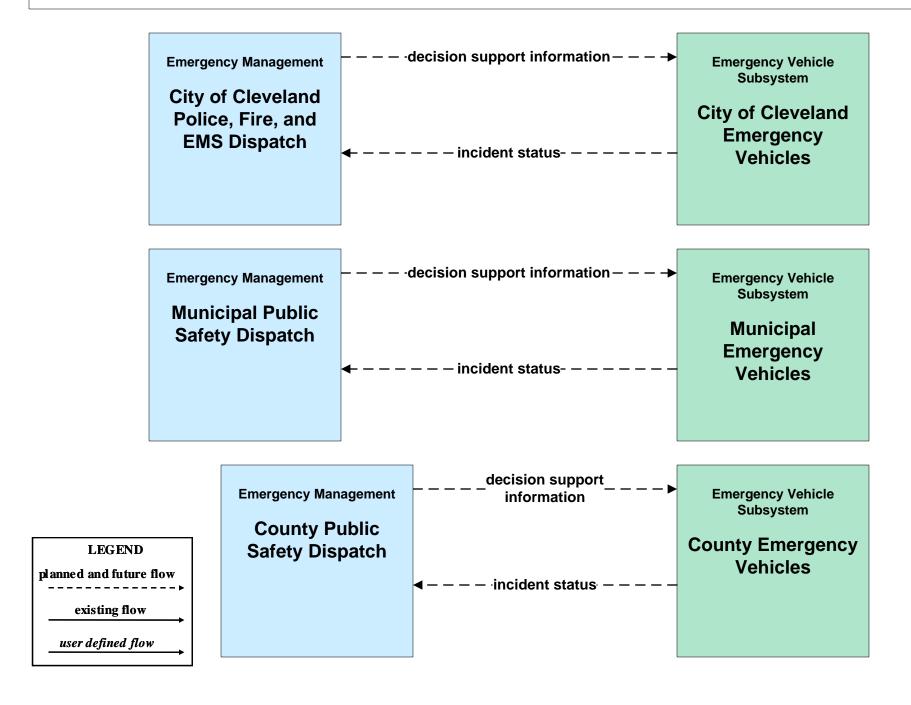




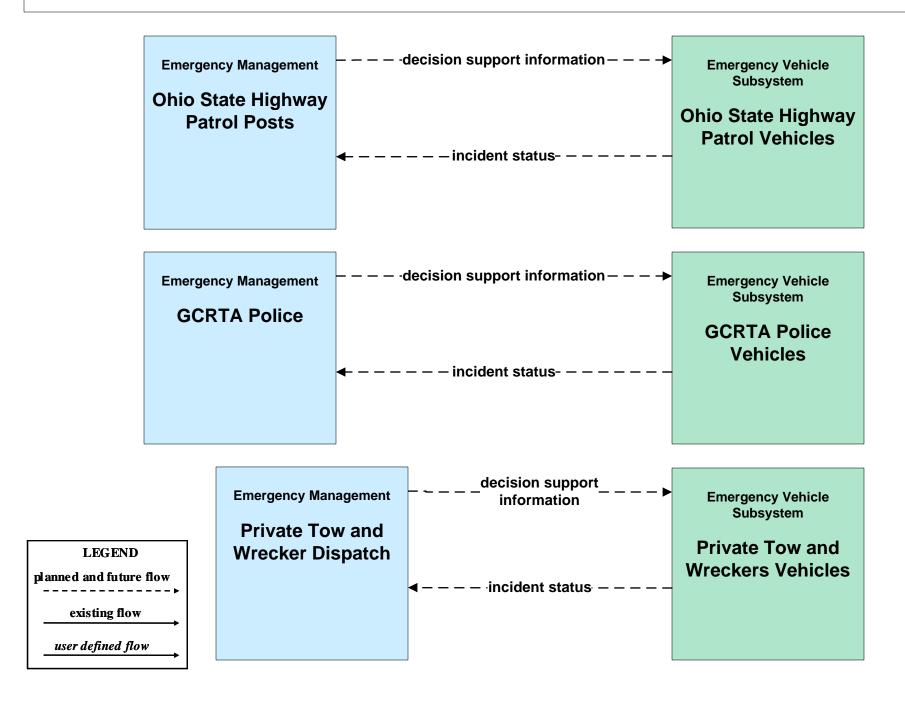
### ATMS08 - Incident Management

Emergency Management Emergency Vehicles

### ATMS08 - Incident Management EM to EVS (1 of 2)



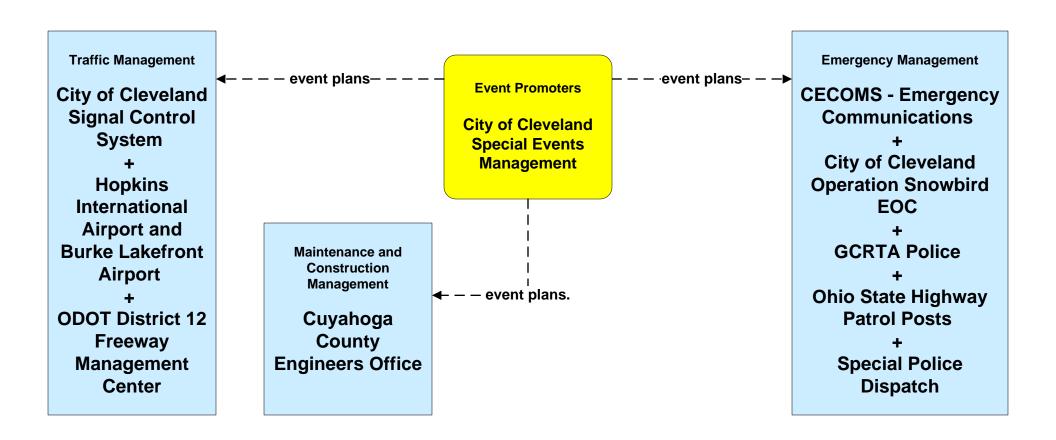
### ATMS08 - Incident Management EM to EVS (2 of 2)

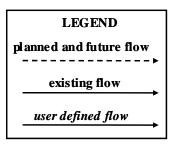


### ATMS08 - Incident Management

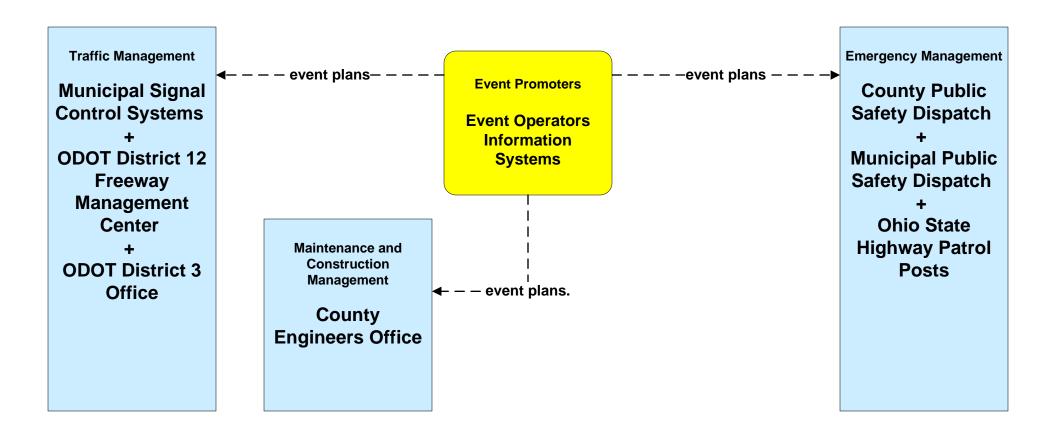
**Event Promoter Interfaces** 

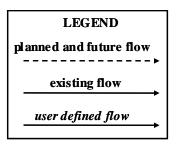
#### ATMS08 - Incident Management Event Promoter Interfaces – City of Cleveland



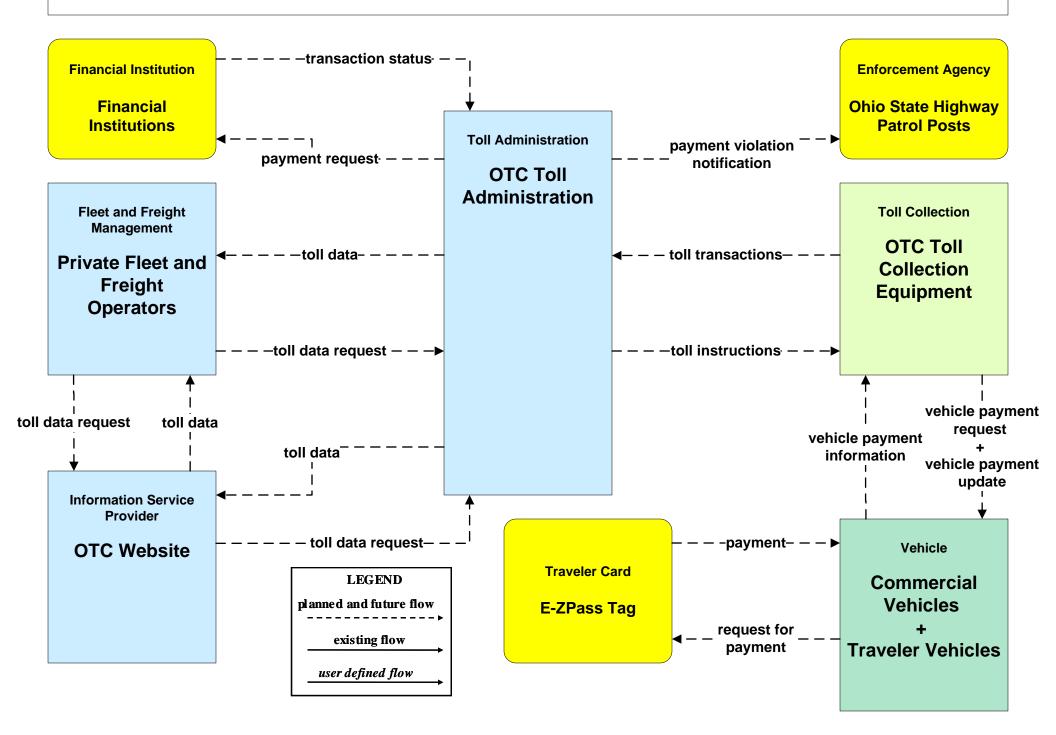


#### ATMS08 - Incident Management Event Promoter Interfaces – Municipalities and Counties

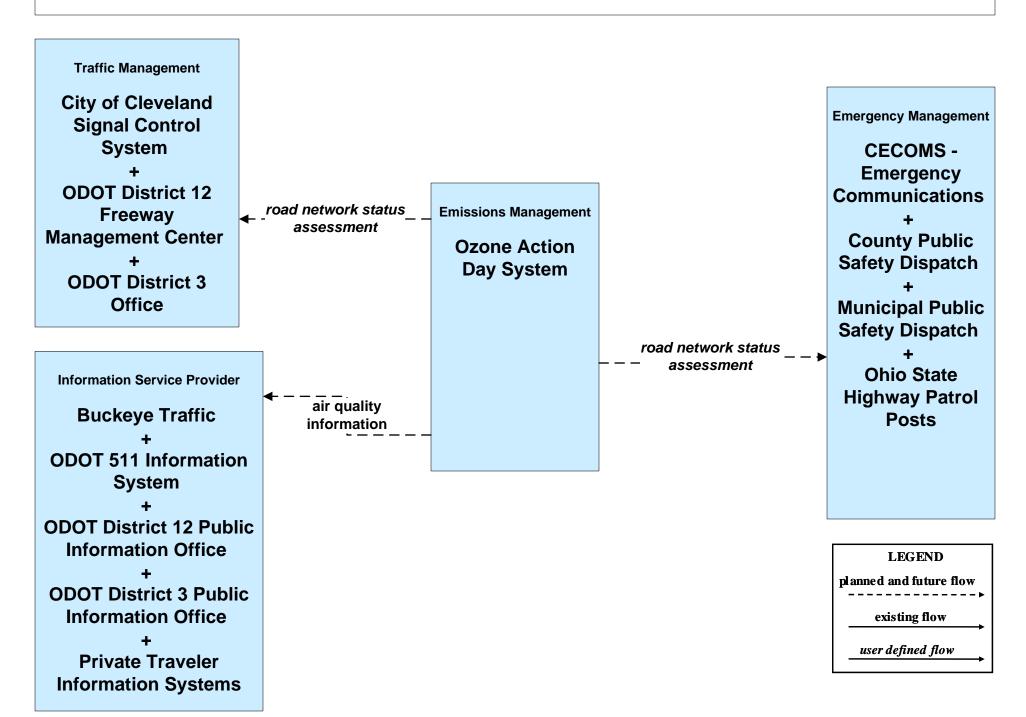




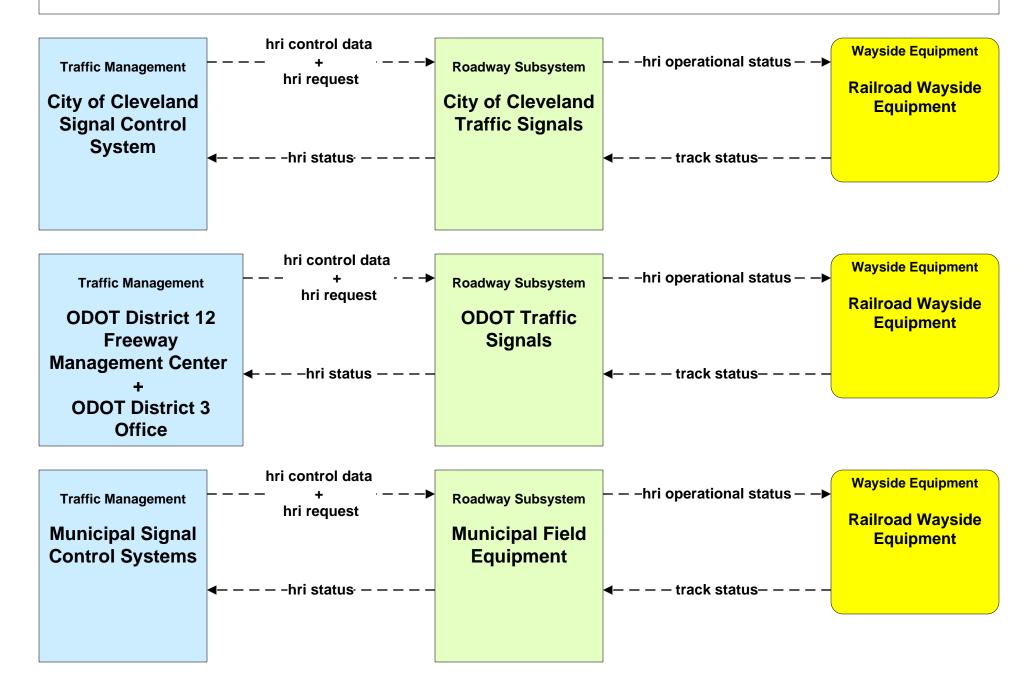
#### ATMS10 - Electronic Toll Collection Ohio Turnpike Commission



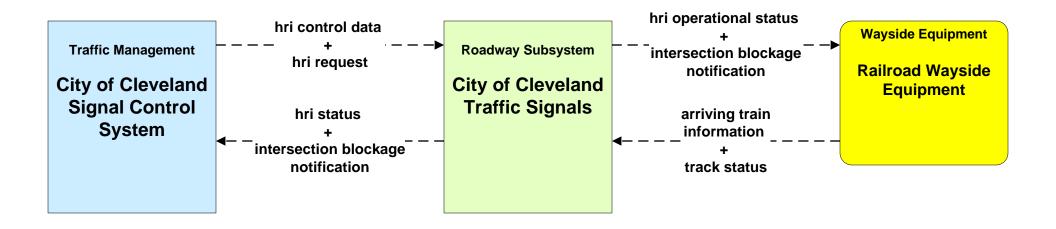
## ATMS11 - Emissions Monitoring and Management Ozone Action Day System

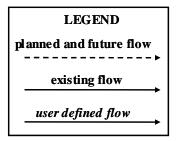


# ATMS13 - Standard Railroad Crossing City of Cleveland / ODOT / Municipal

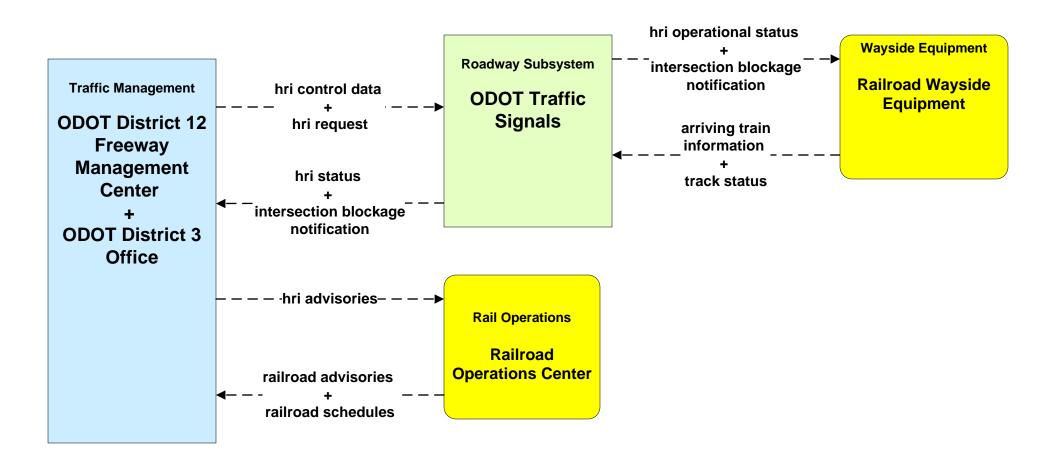


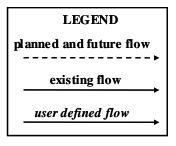
#### ATMS14 - Advanced Railroad Grade Crossing City of Cleveland



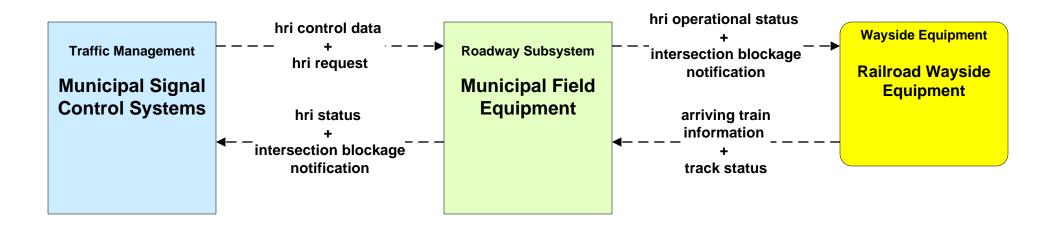


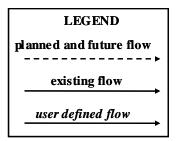
### ATMS14 - Advanced Railroad Grade Crossing ODOT



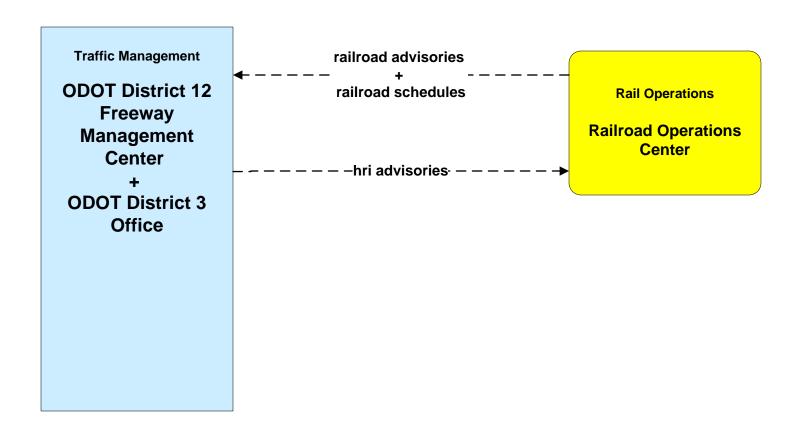


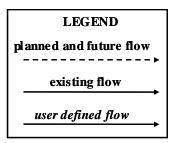
#### ATMS14 - Advanced Railroad Grade Crossing Municipal Signal Control Systems



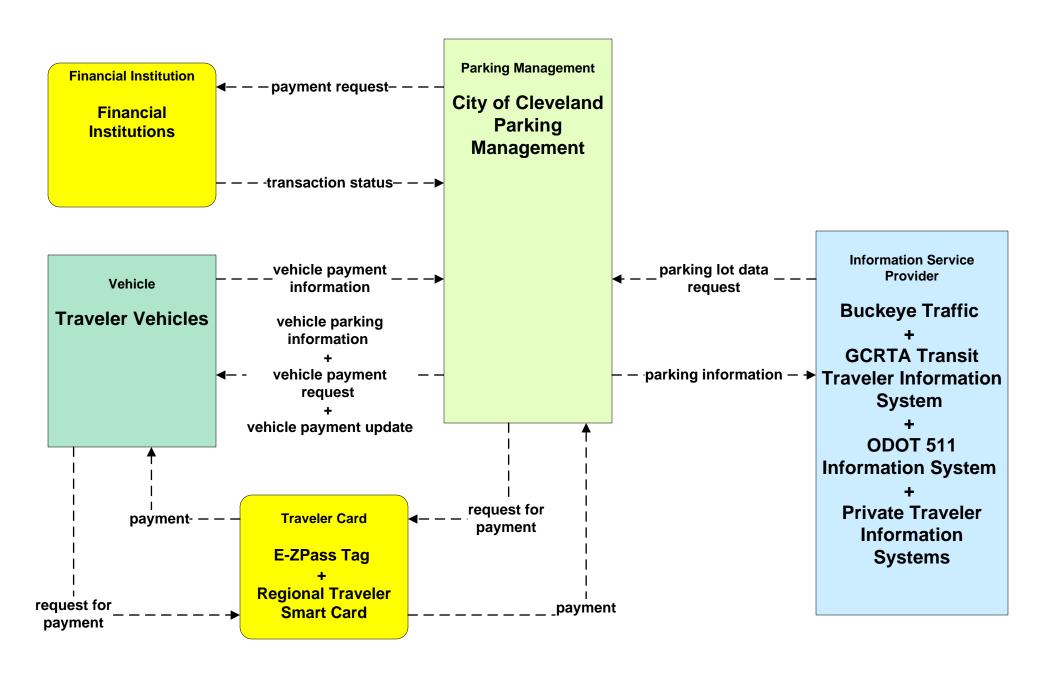


# ATMS15 - Railroad Operations Coordination TMCs to Rail Operations Center

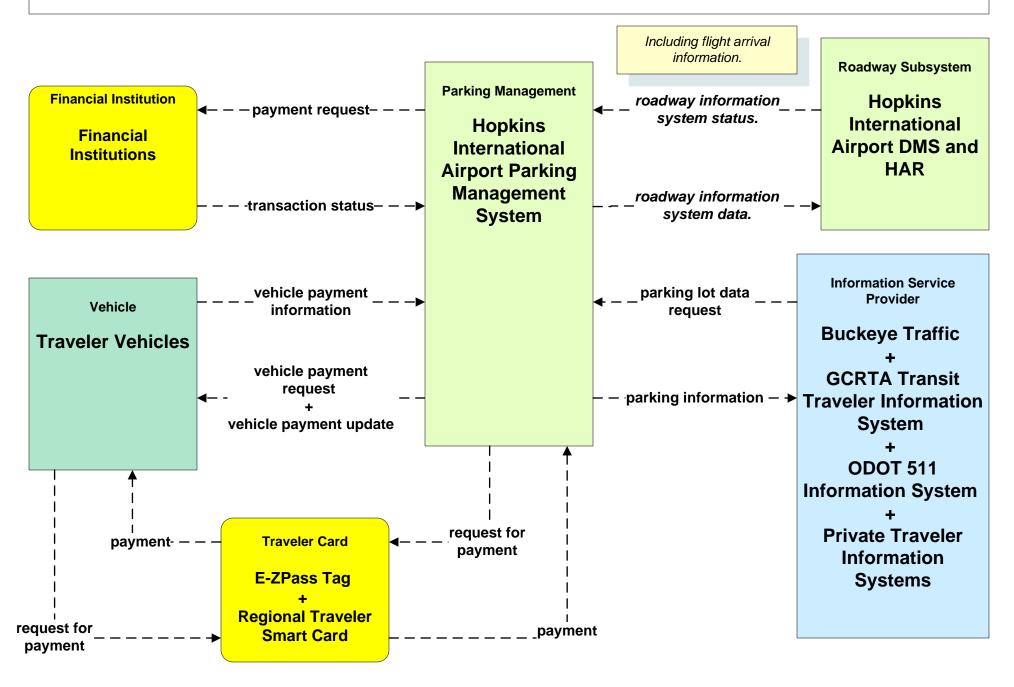




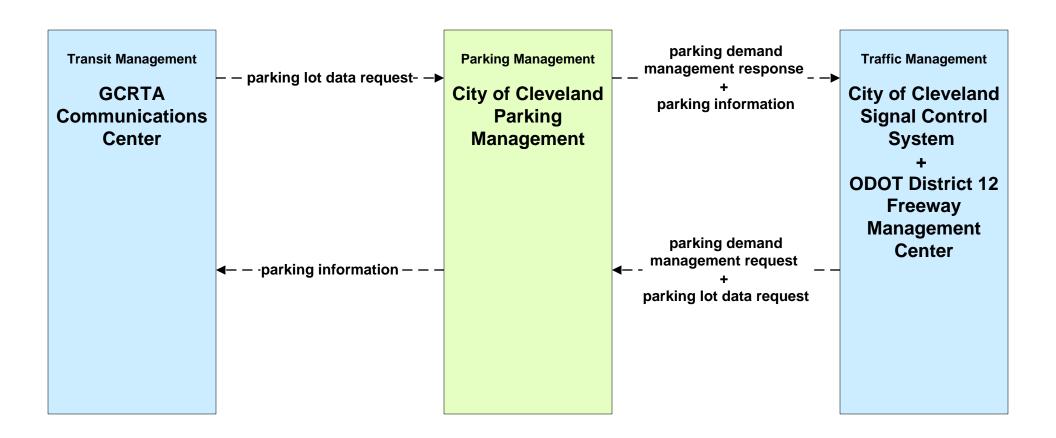
## ATMS16 - Parking Facility Management City of Cleveland

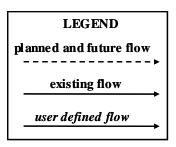


#### ATMS16 - Parking Facility Management Hopkins International Airport

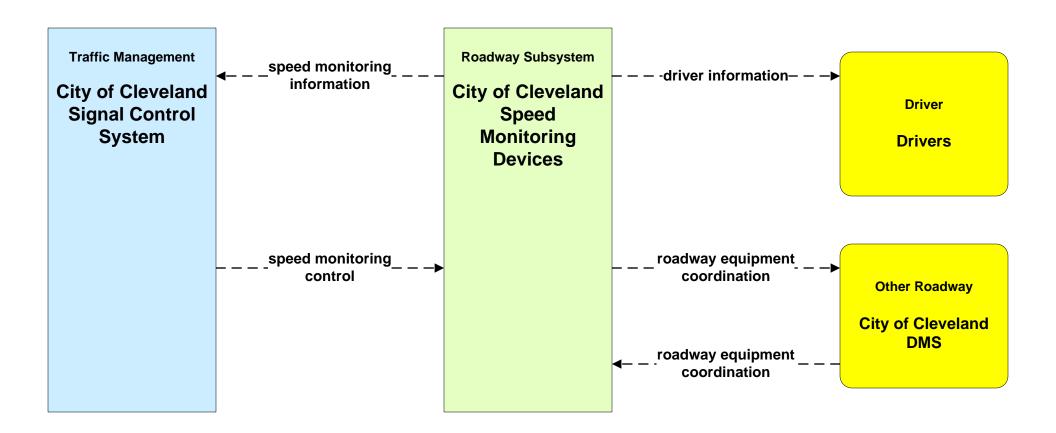


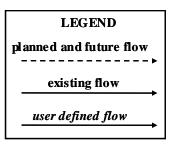
## ATMS17 - Regional Parking Management City of Cleveland



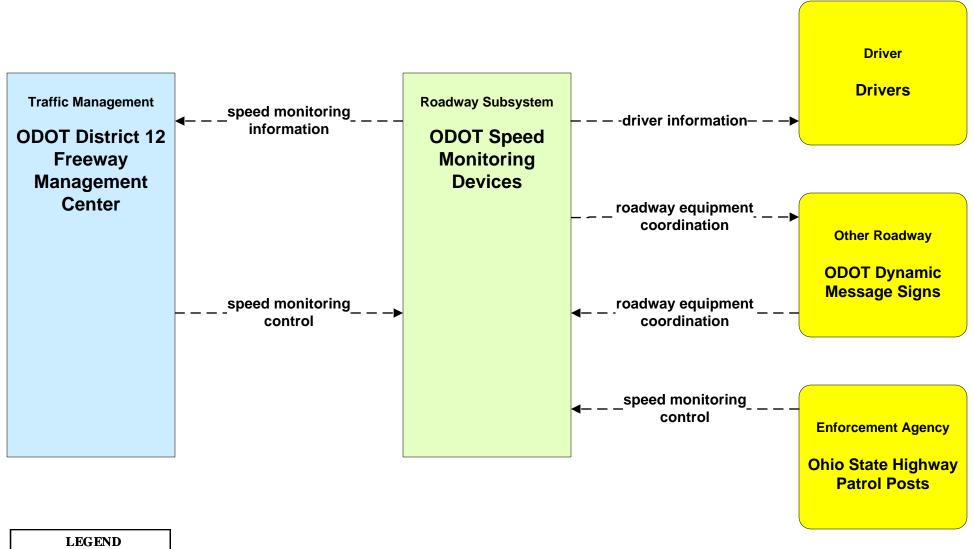


## ATMS19 - Speed Monitoring City of Cleveland





### ATMS19 - Speed Monitoring ODOT



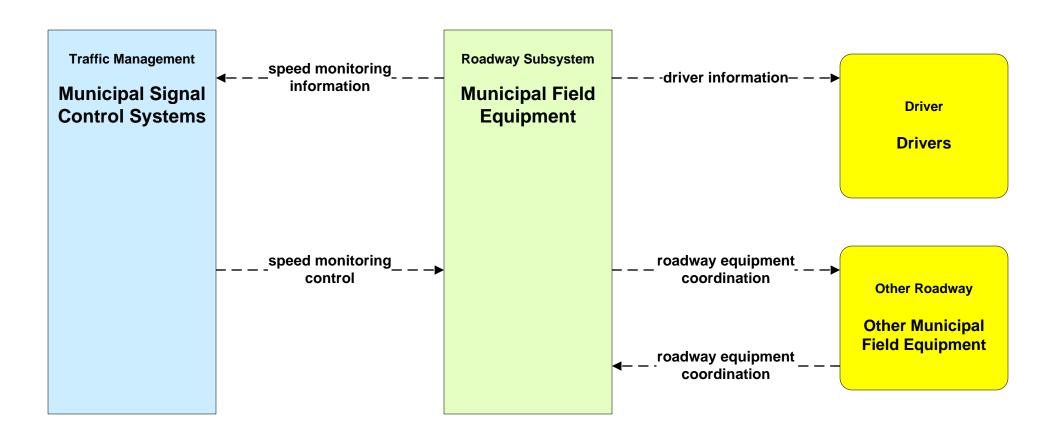
LEGEND

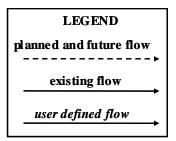
planned and future flow

existing flow

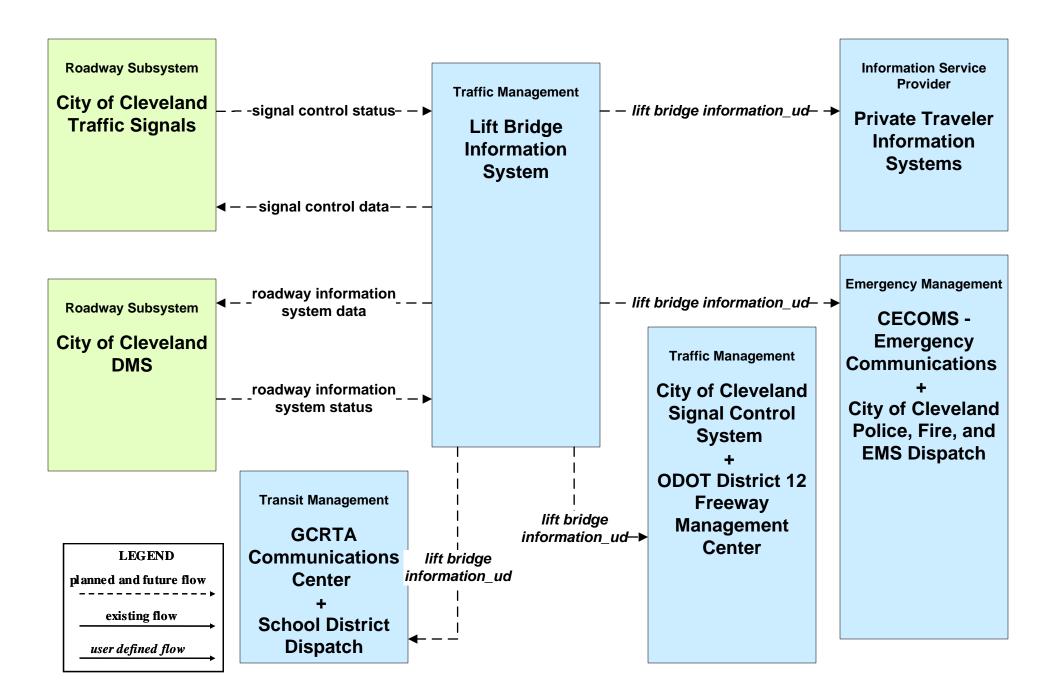
user defined flow

#### ATMS19 - Speed Monitoring Municipal Signal Control Systems

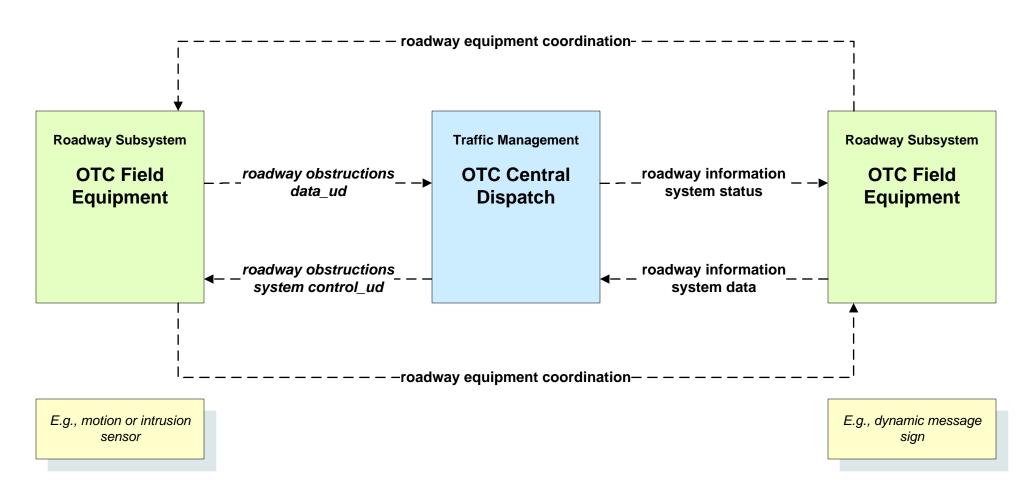


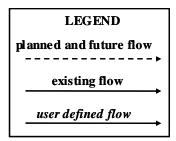


#### ATMS20 - Drawbridge Management Lift Bridge Information System

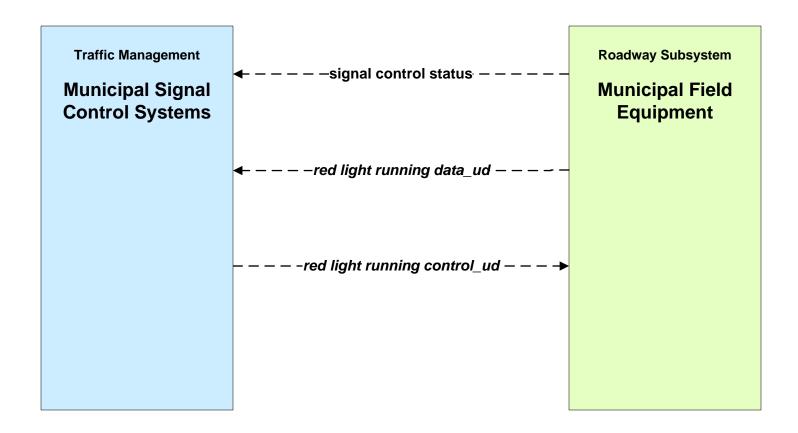


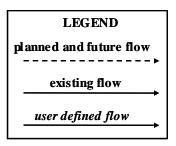
# ATMS21 - Roadway Obstruction Ohio Turnpike Commission



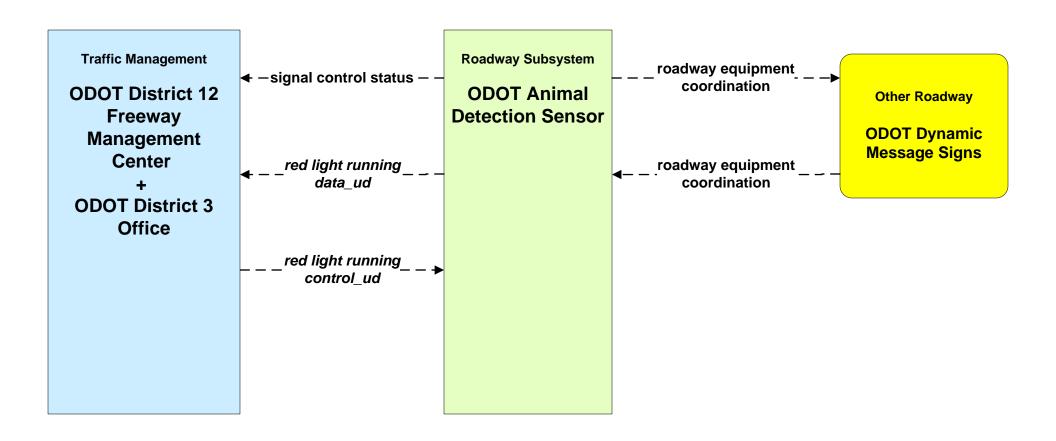


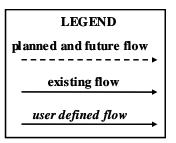
#### ATMS-EX1 – Red Light Running Municipal Signal Control Systems





### ATMS-EX2 – Animal Detection System ODOT





## **ATMS-EX3 – Route Guidance Hopkins International Airport**

