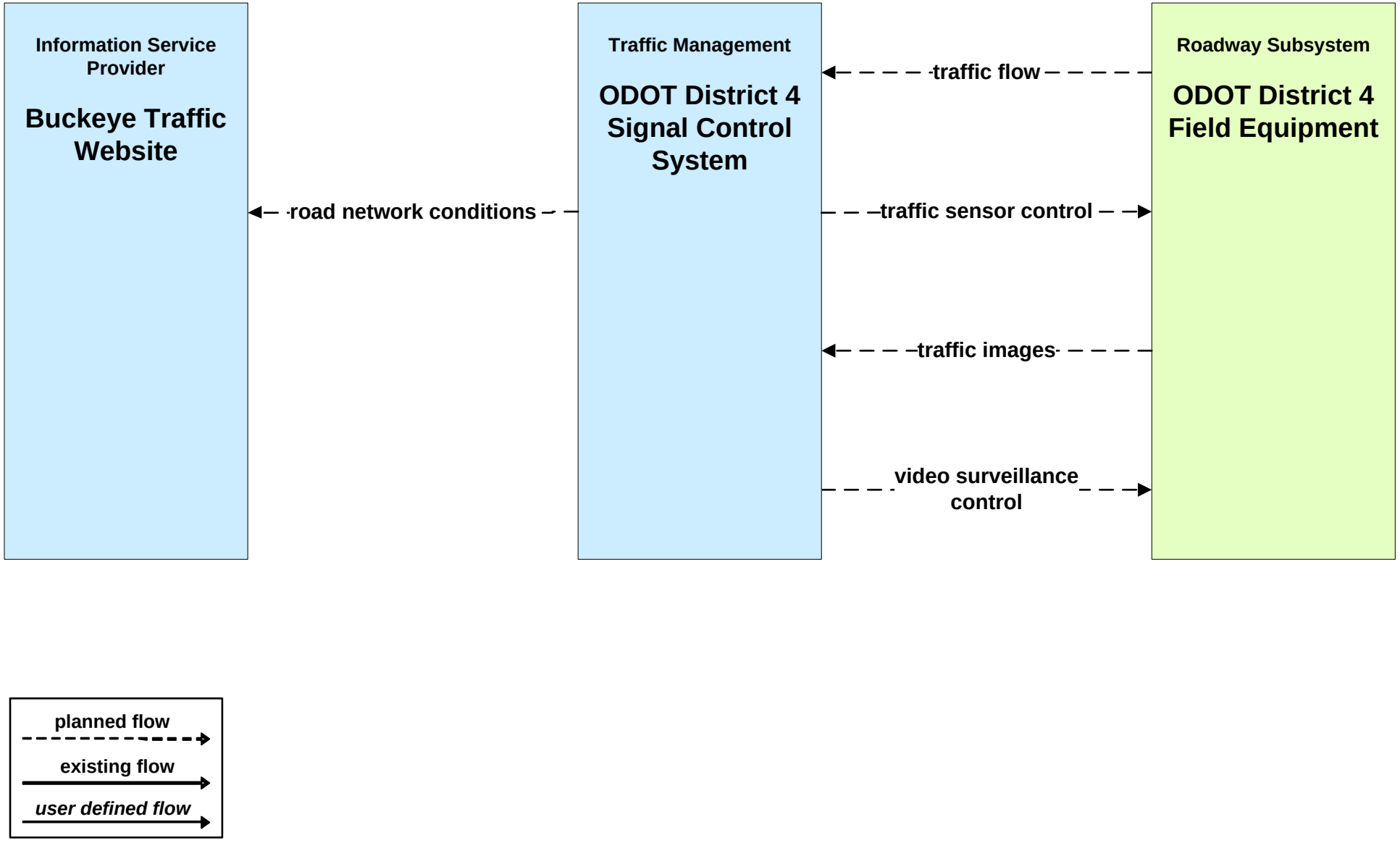
Eastgate Regional ITS Architecture

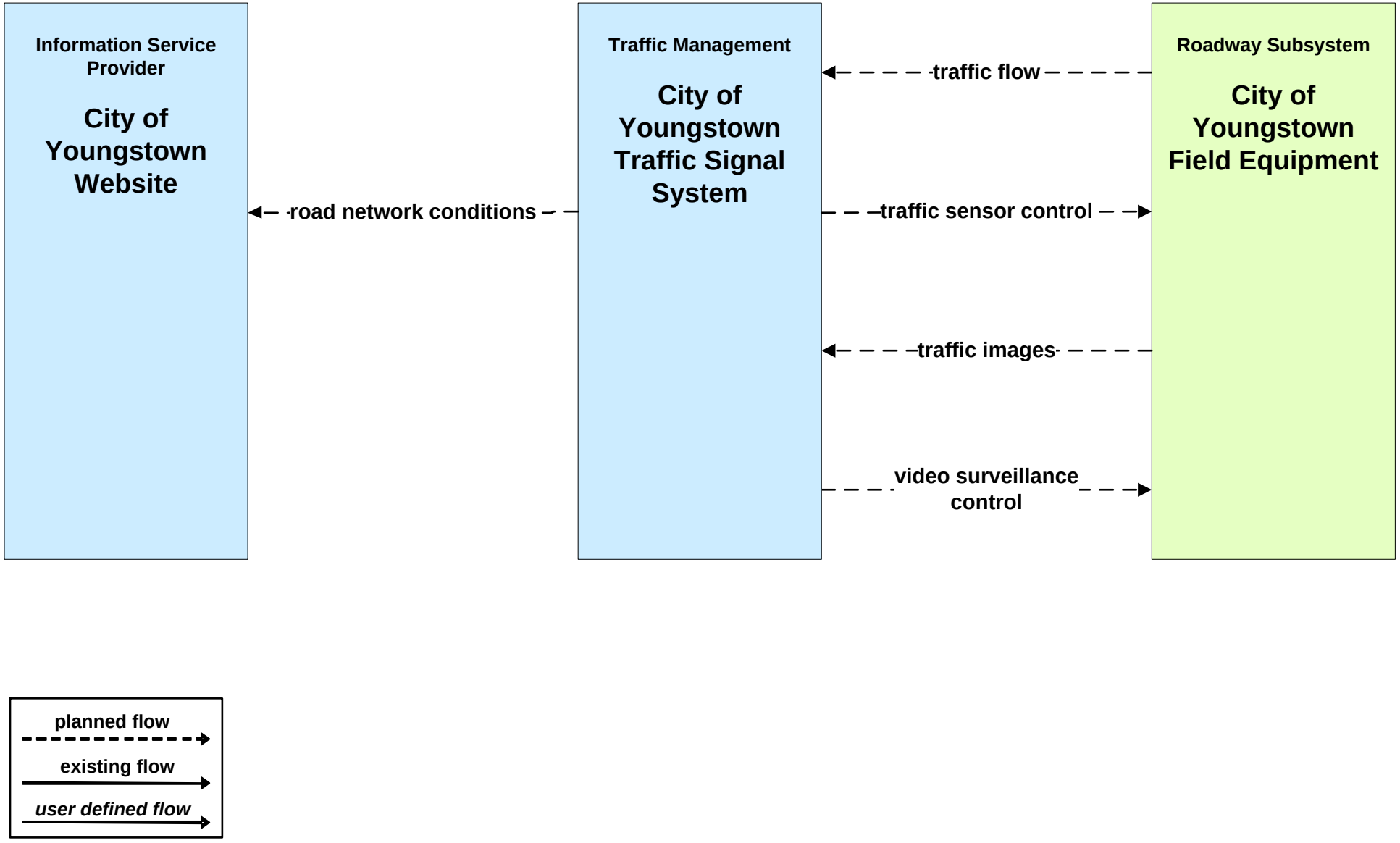
Customized Market Package Diagrams

Advanced Traffic Management Systems (ATMS)

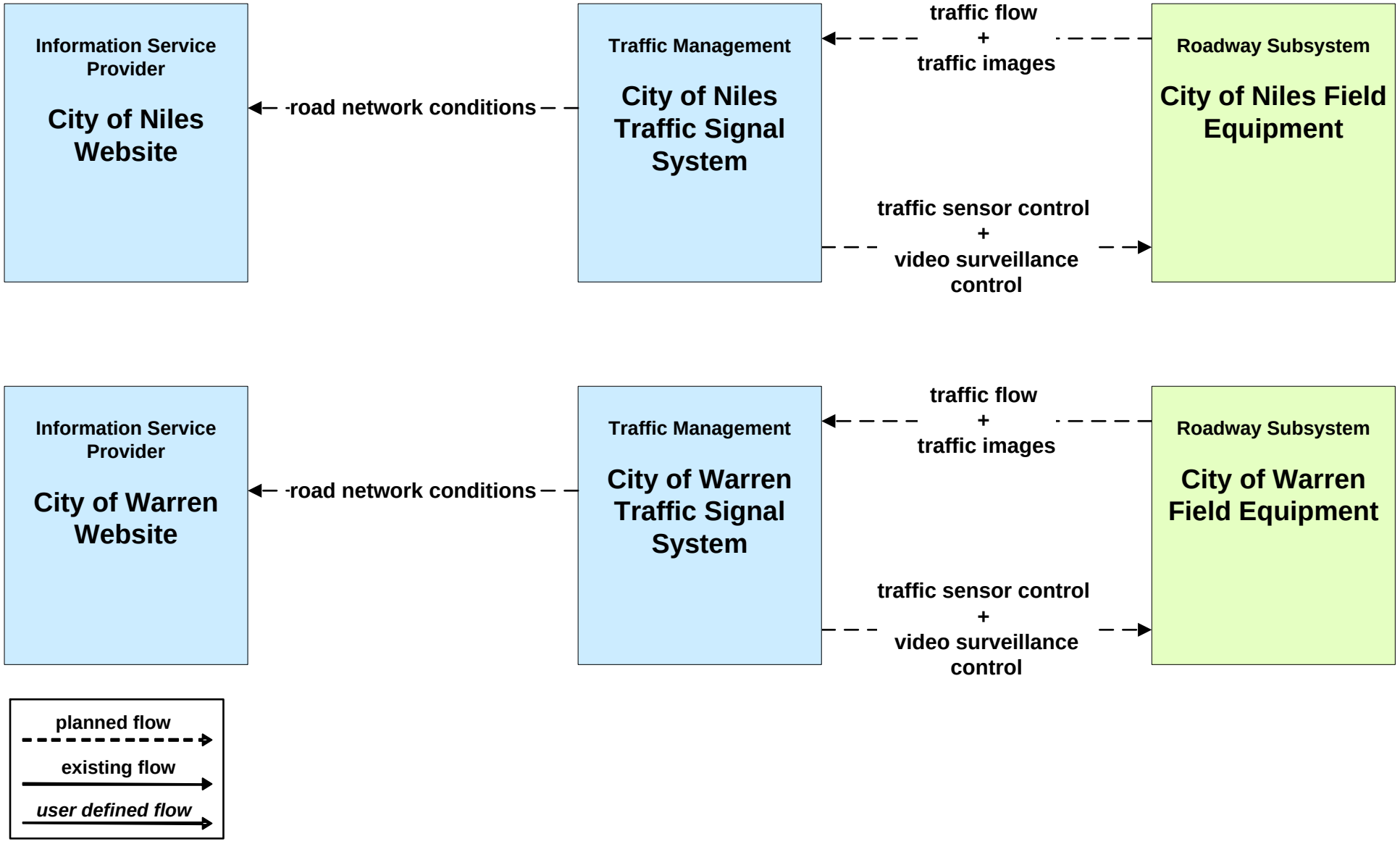
ATMS01 - Network Surveillance
ODOT District 4



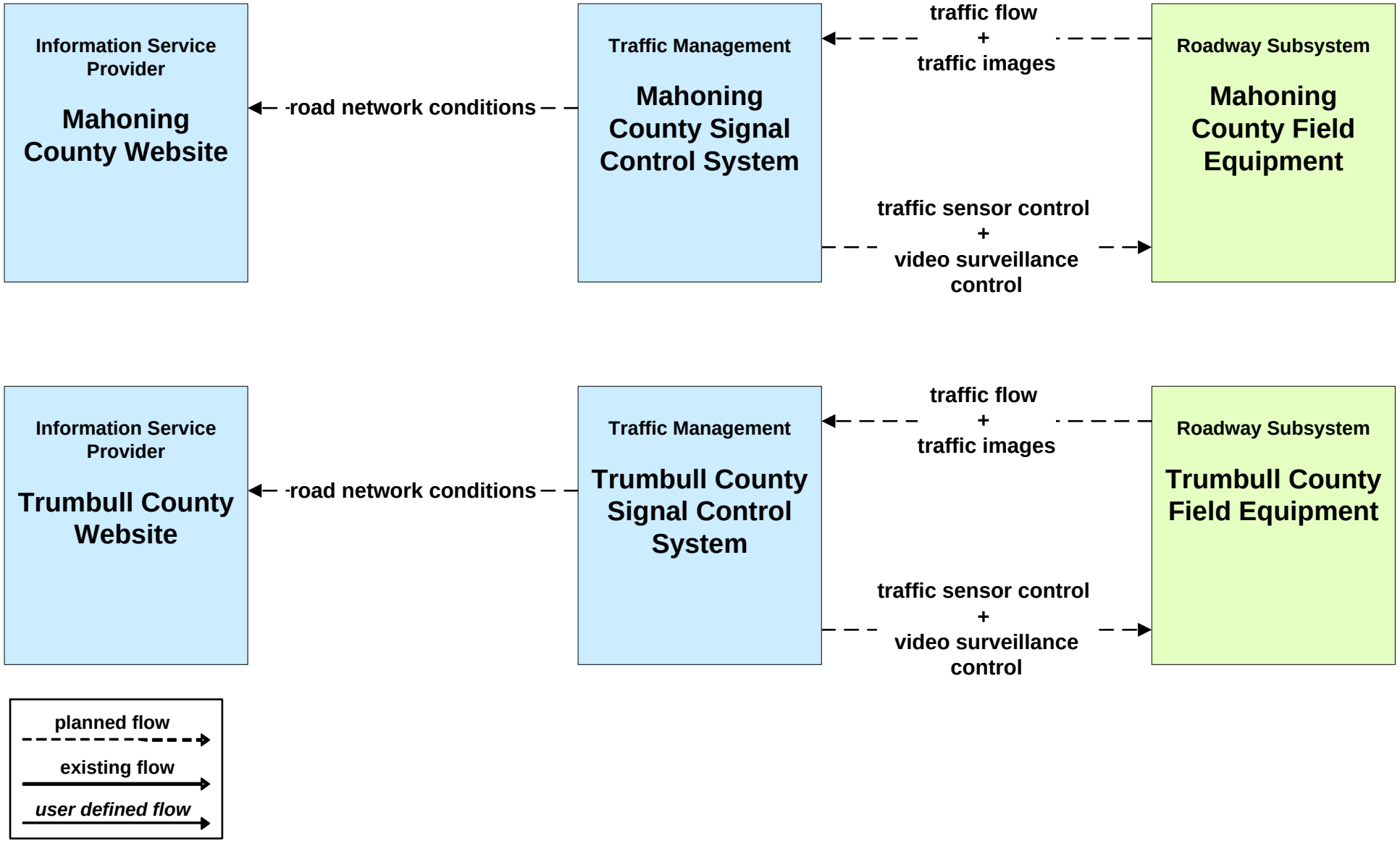
ATMS01 - Network Surveillance
City of Youngstown



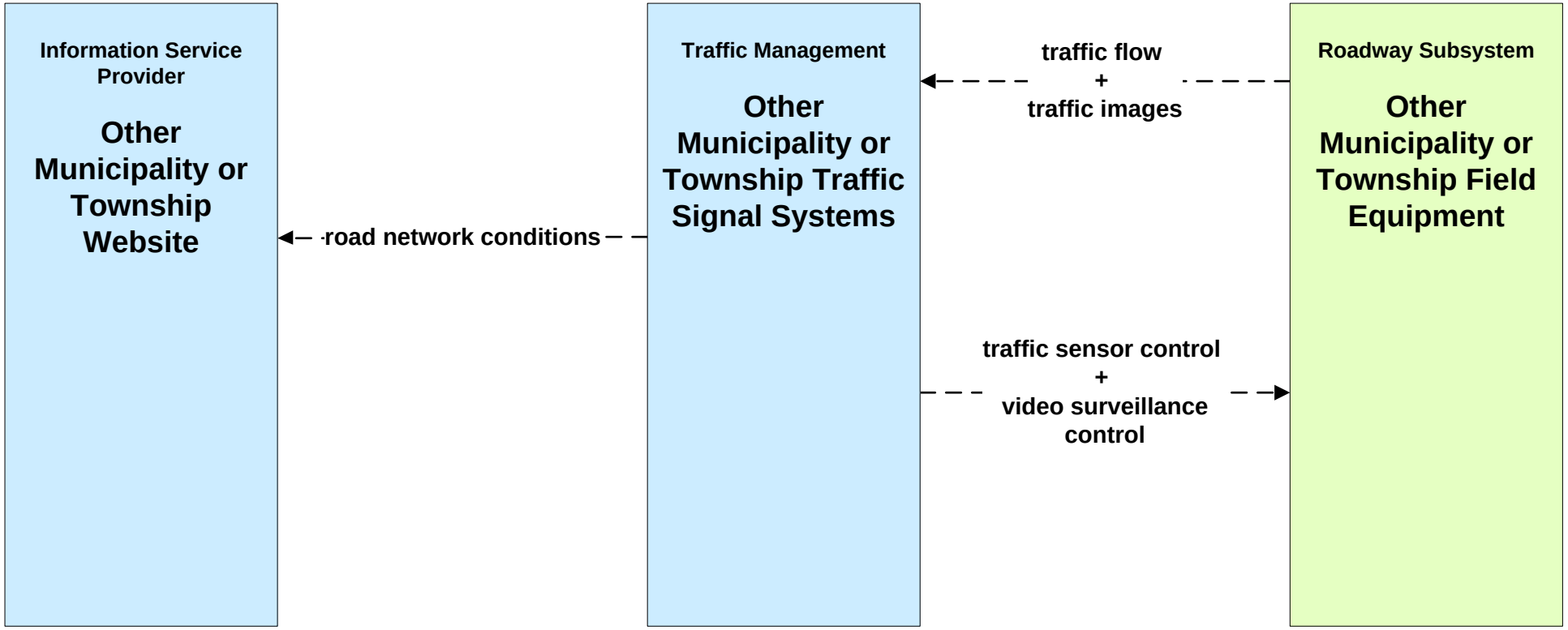
ATMS01 - Network Surveillance
City of Niles / City of Warren

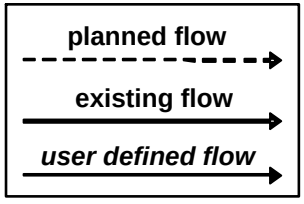


ATMS01 - Network Surveillance
County Signal Systems

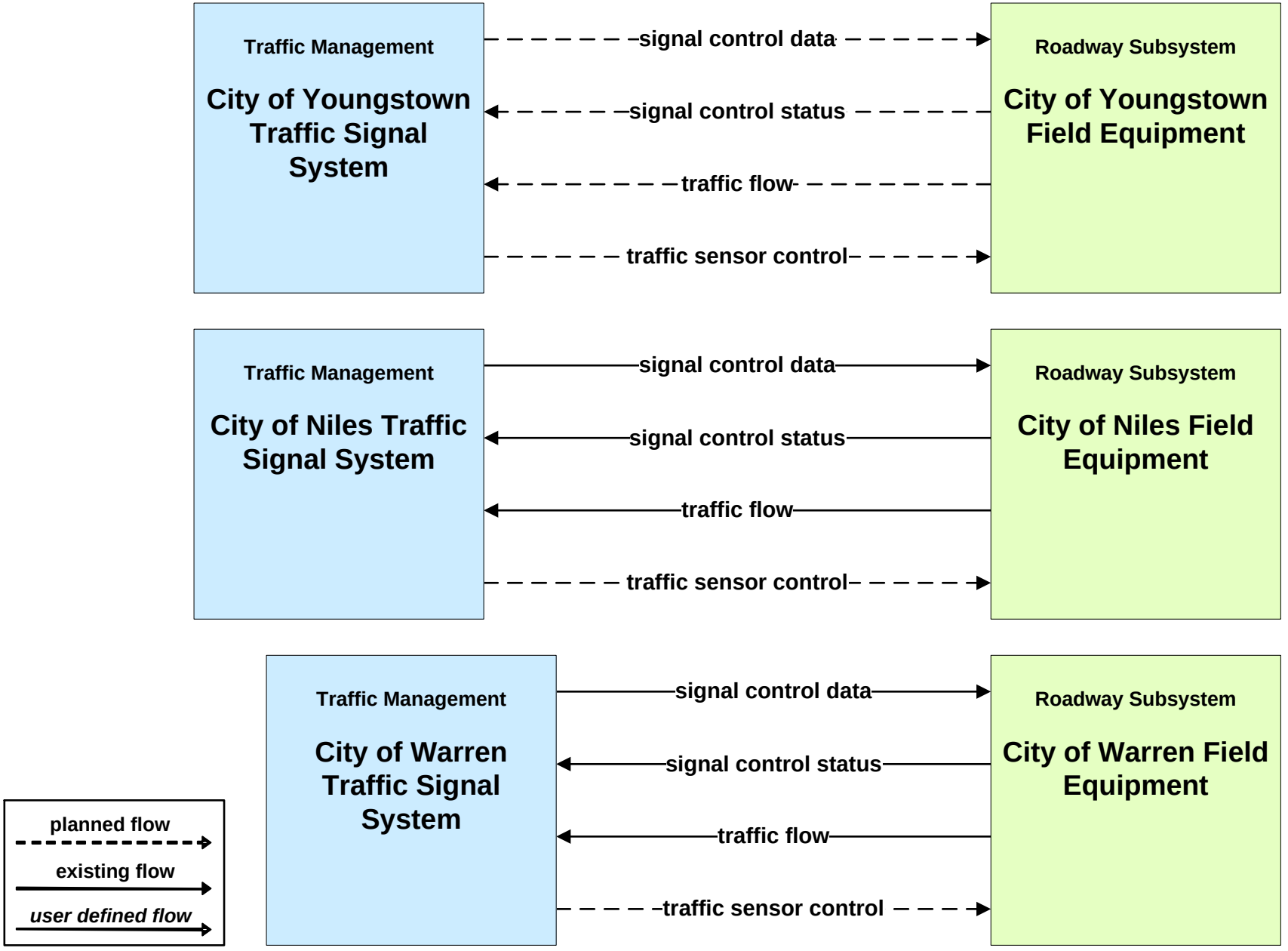


ATMS01 - Network Surveillance
Other Municipalities / Townships Traffic Signal Systems

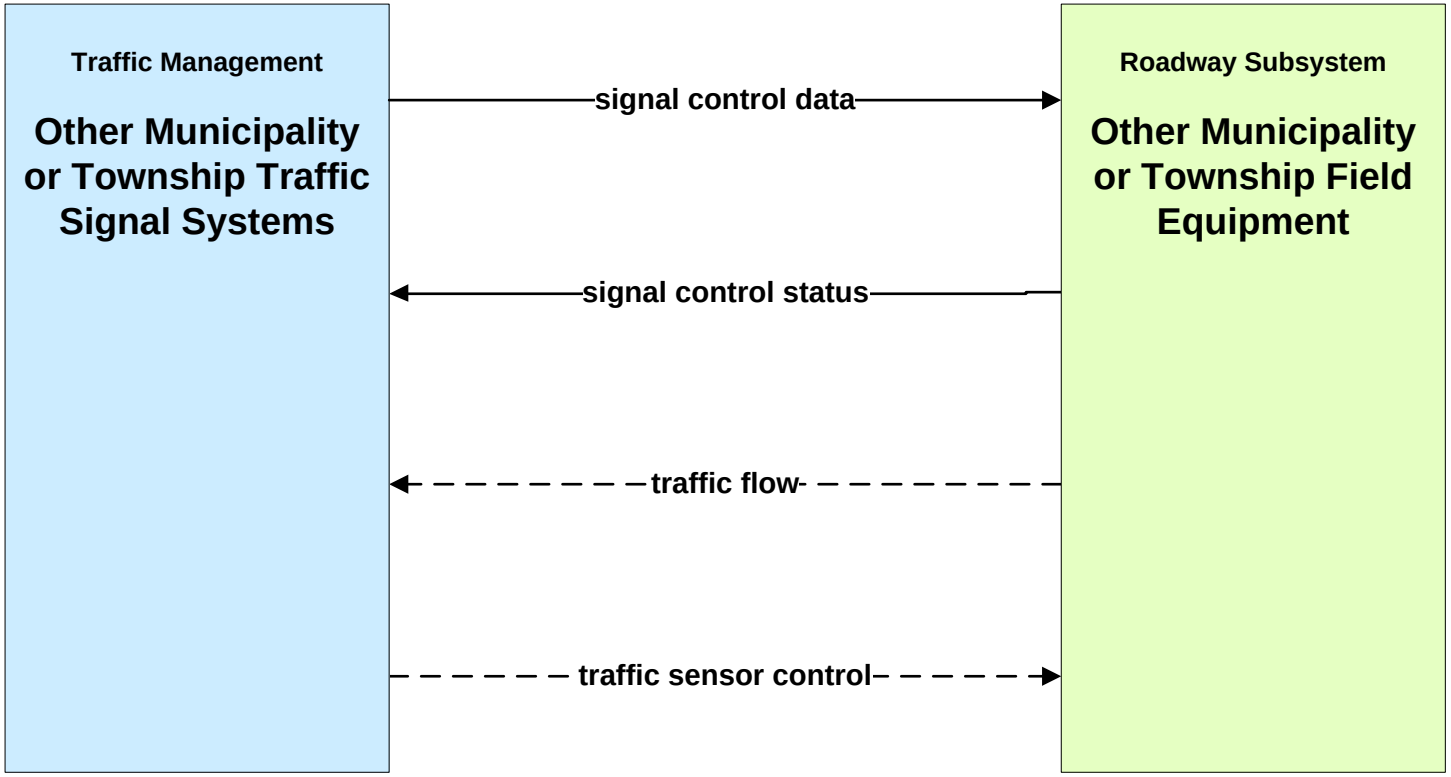


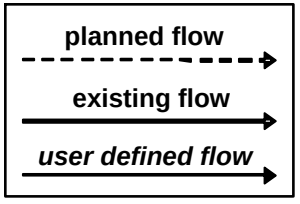


ATMS03 - Surface Street Control
City of Youngstown / City of Niles / City of Warren

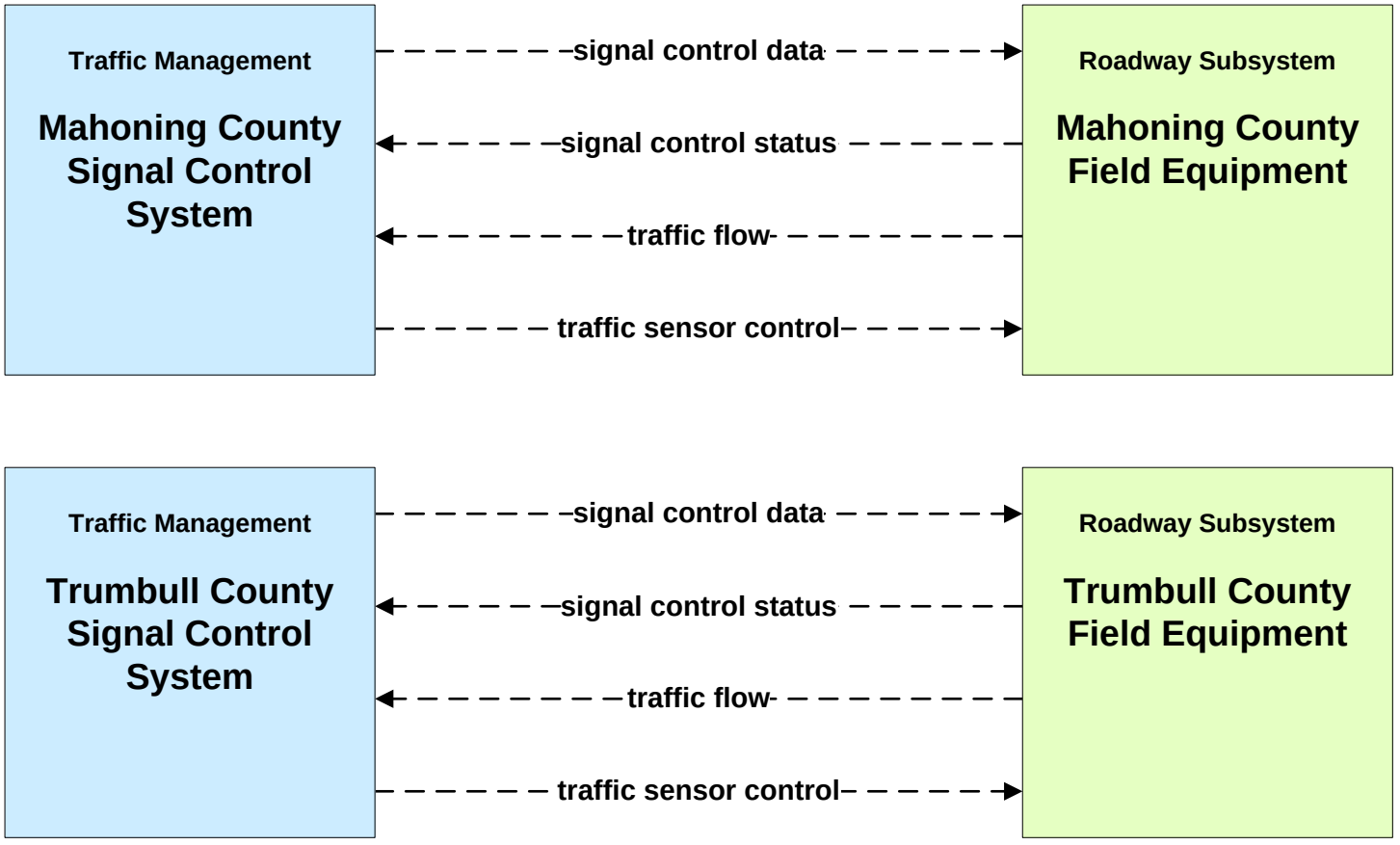


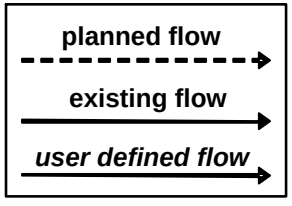
ATMS03 - Surface Street Control
Other Municipality or Township Traffic Signal Systems



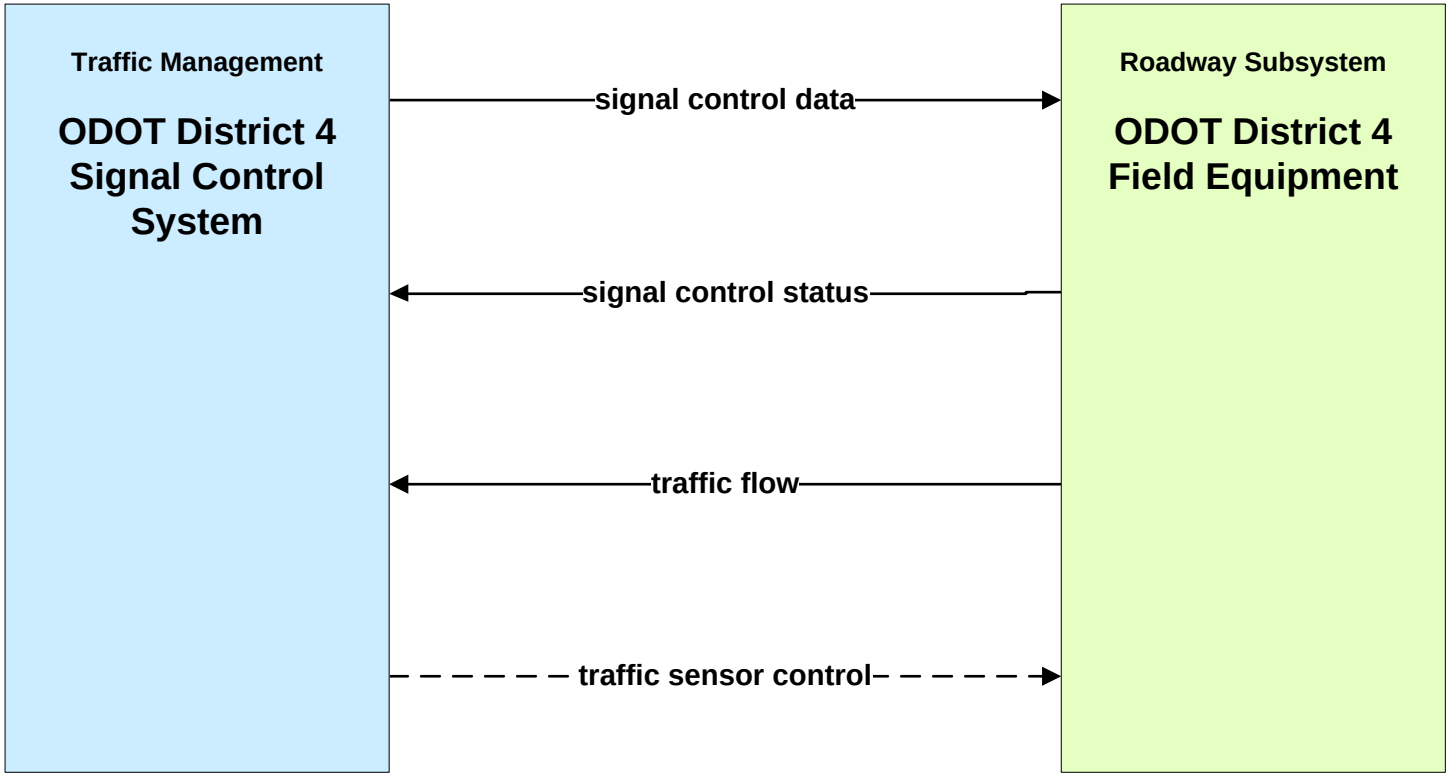


ATMS03 - Surface Street Control
County Signal Control Systems





ATMS03 - Surface Street Control
ODOT District 4 Signal Control System



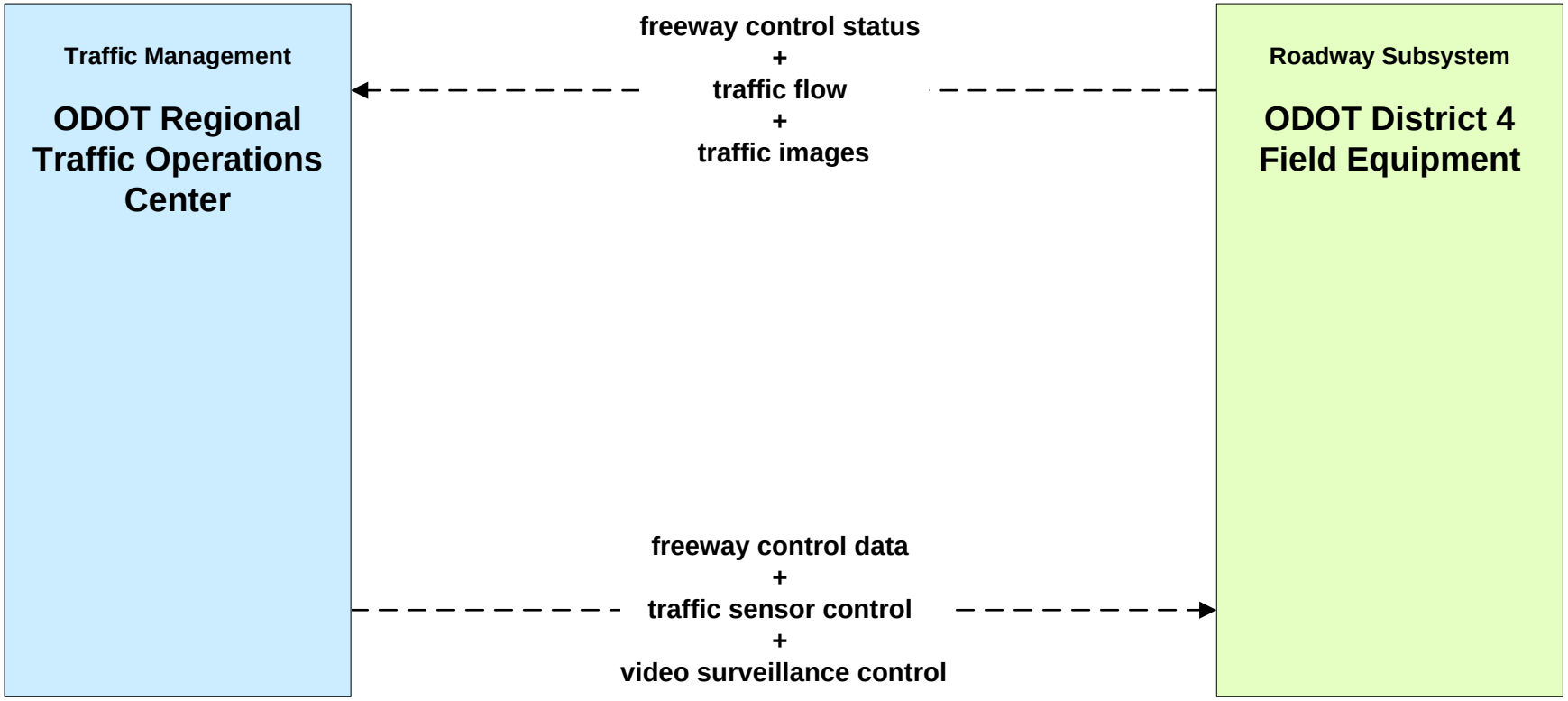
ODOT currently gets volume counts from loops.

planned flow

existing flow

user defined flow

ATMS04 - Freeway Control
ODOT Freeway Management

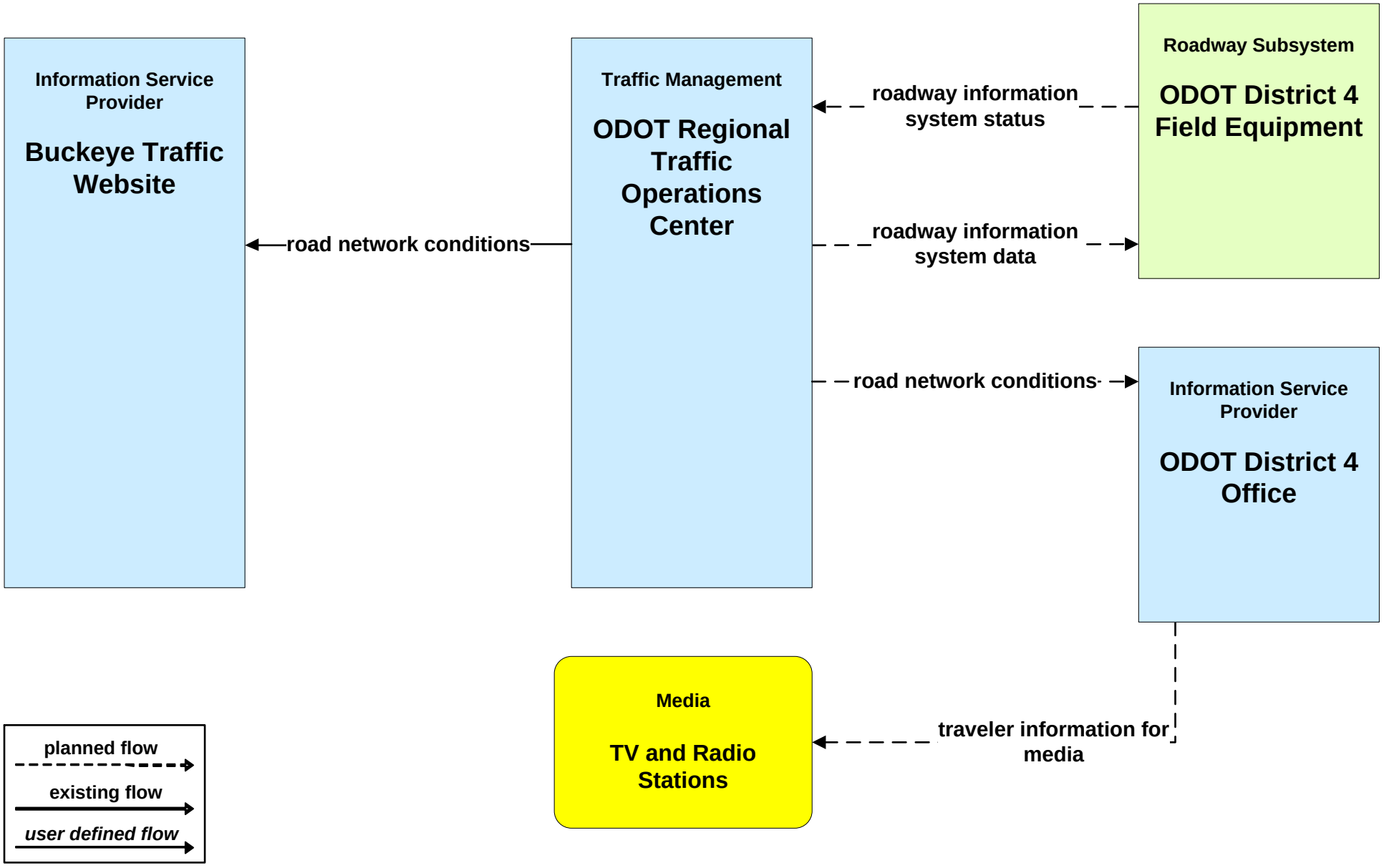


planned flow

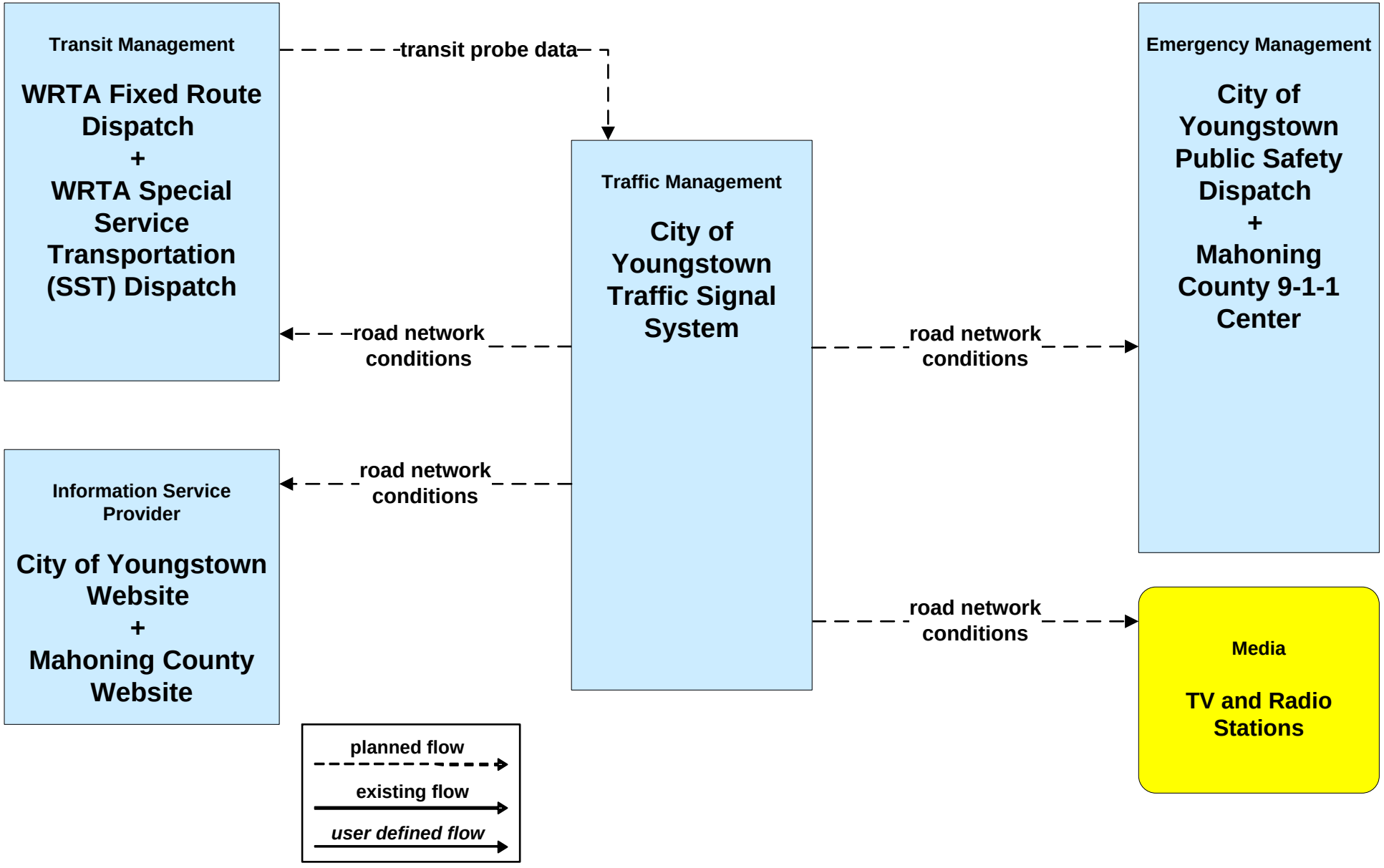
existing flow

user defined flow

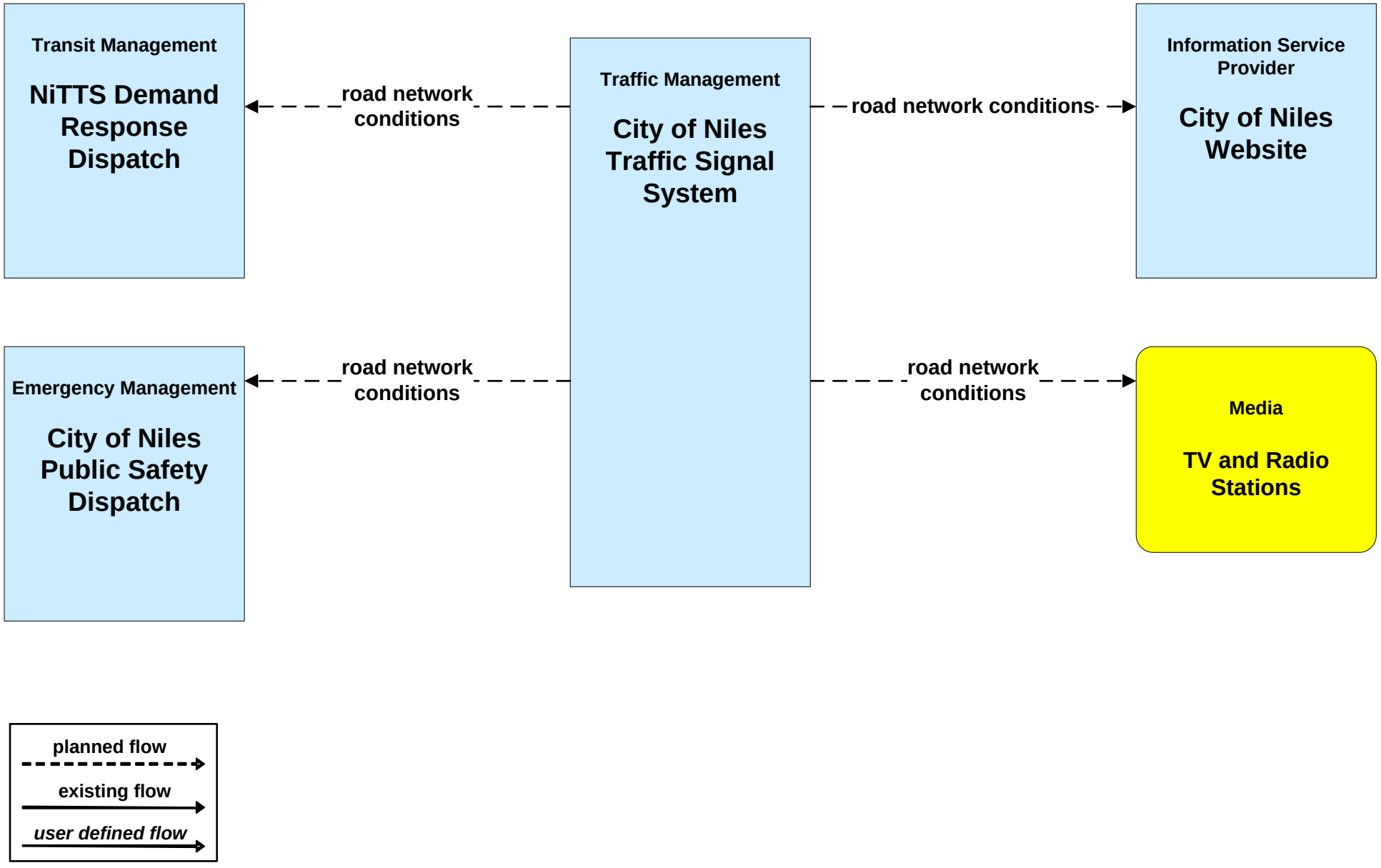
ATMS06 - Traffic Information Dissemination
ODOT Regional Traffic Operations



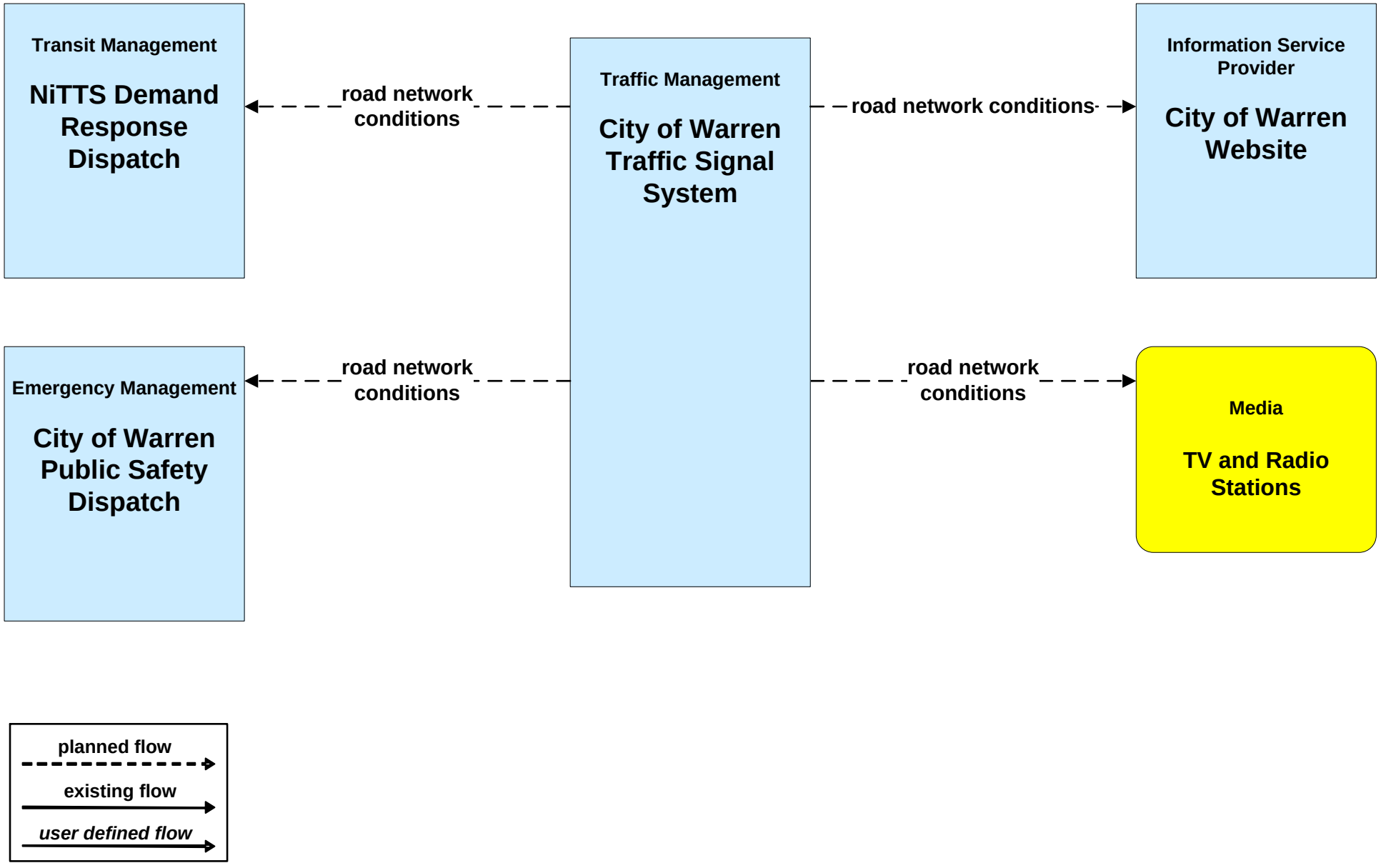
ATMS06 - Traffic Information Dissemination
City of Youngstown



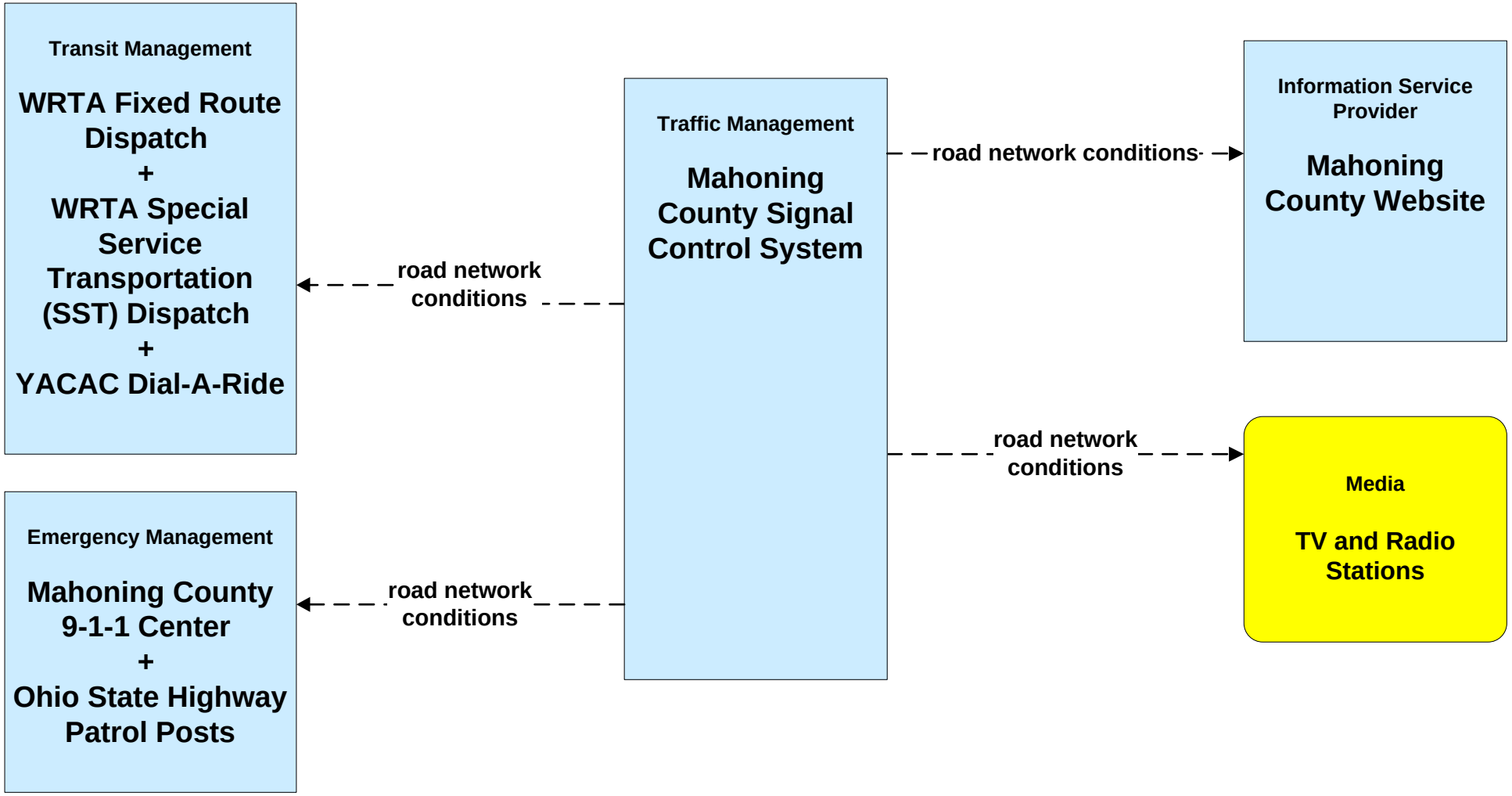
ATMS06 - Traffic Information Dissemination
City of Niles



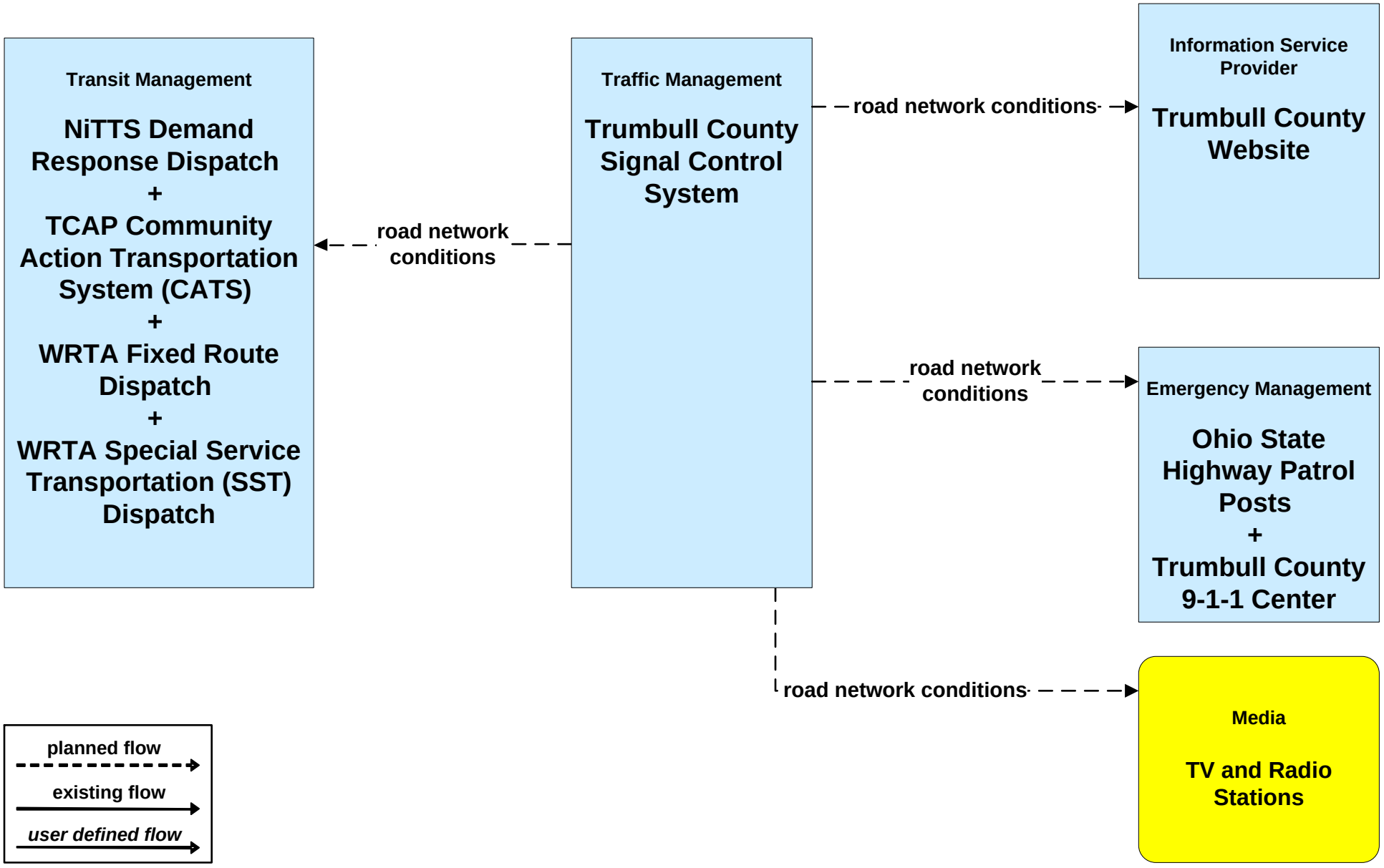
ATMS06 - Traffic Information Dissemination
City of Warren



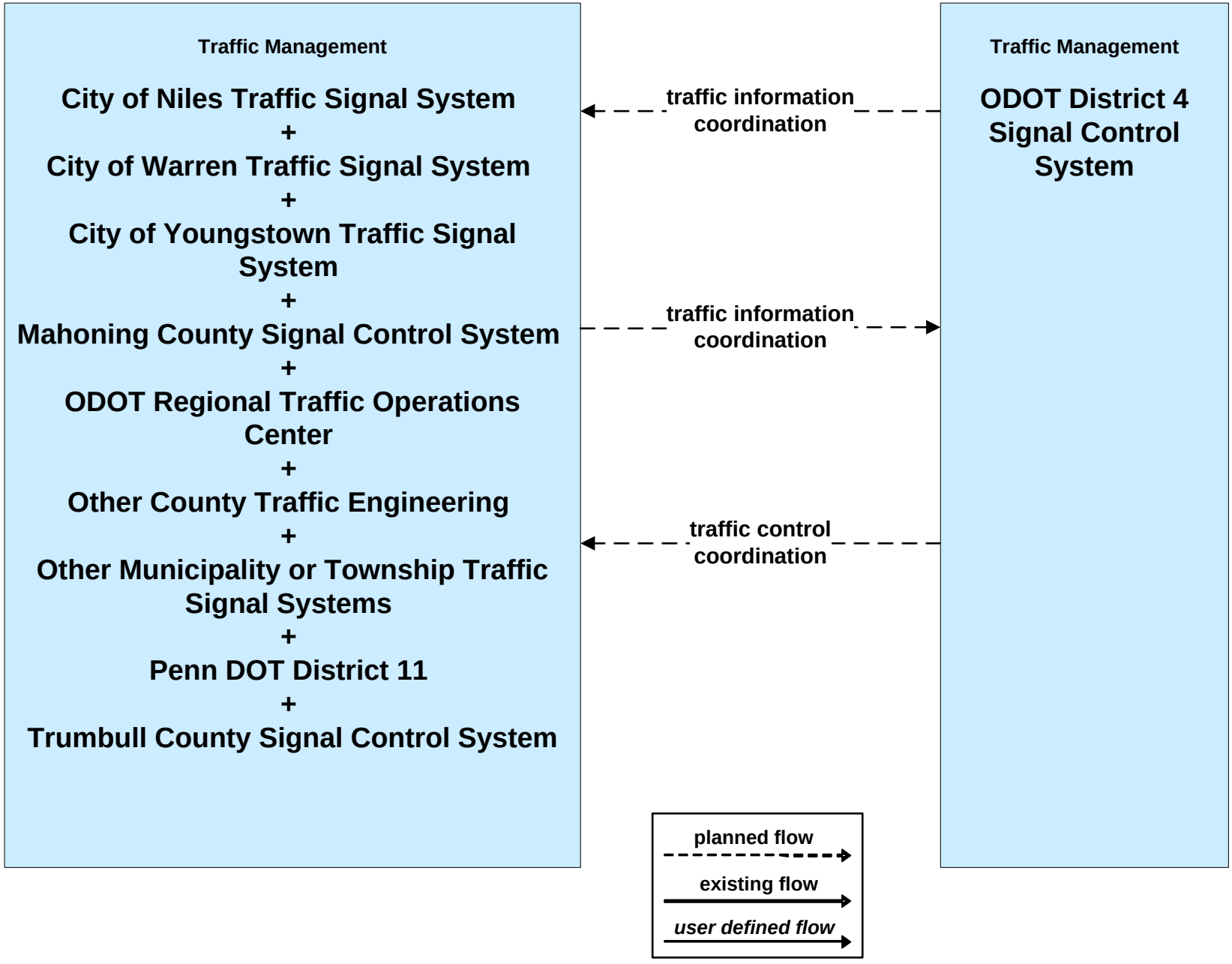
ATMS06 - Traffic Information Dissemination
Mahoning County



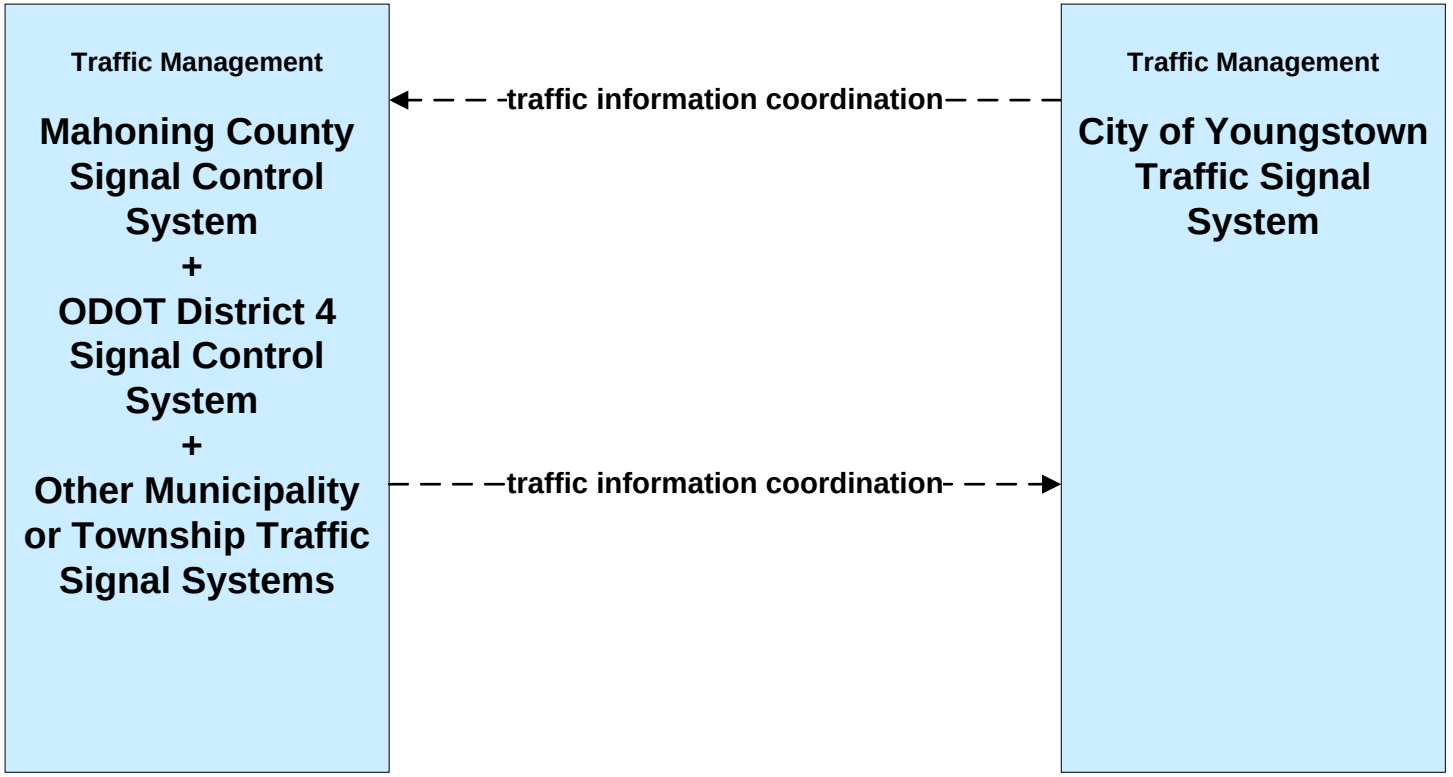
ATMS06 - Traffic Information Dissemination
Trumbull County

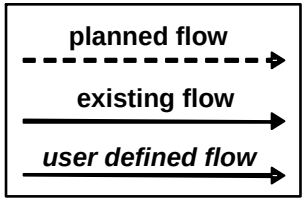


ATMS07 - Regional Traffic Control
ODOT District 4

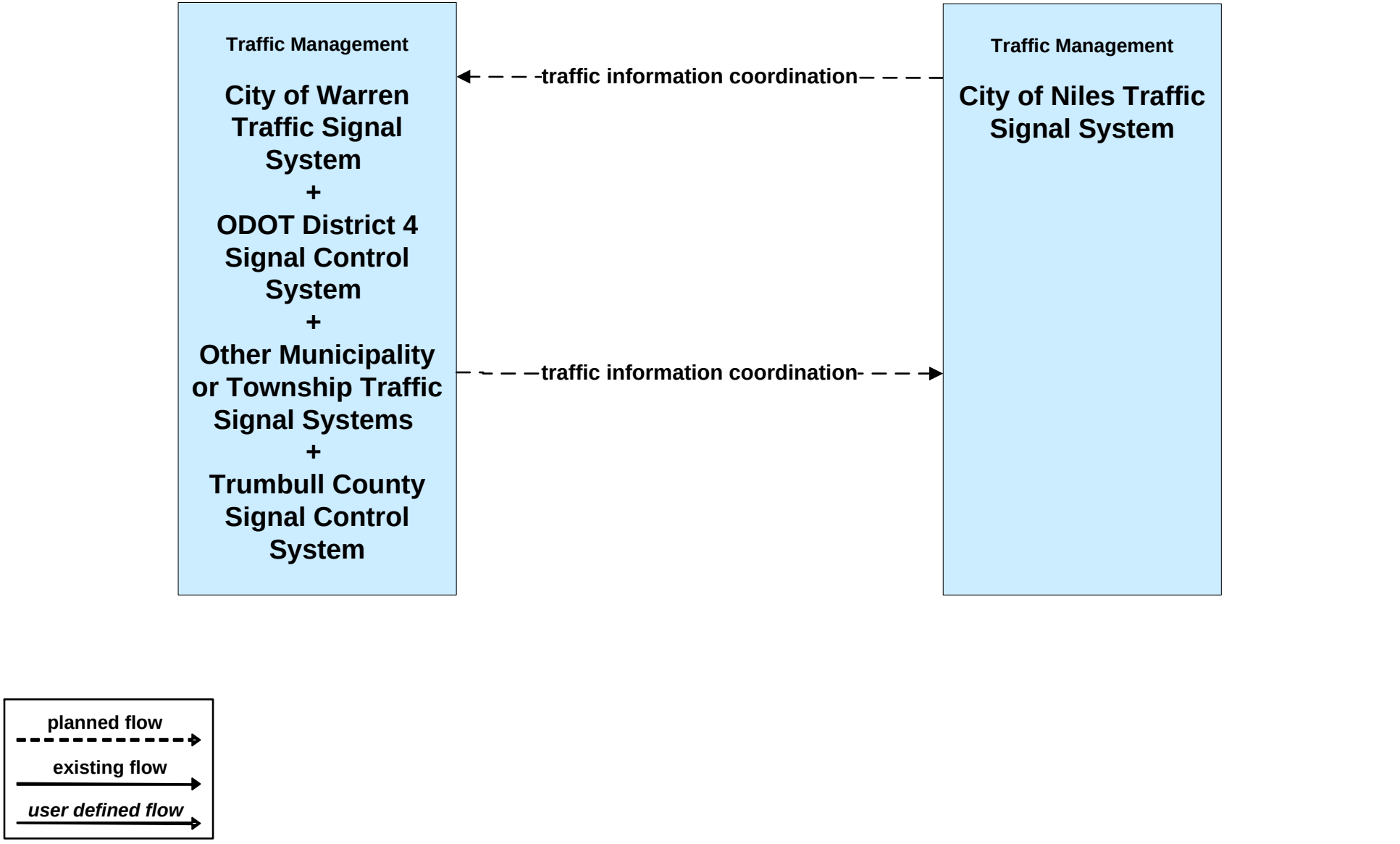


ATMS07 - Regional Traffic Control
City of Youngstown

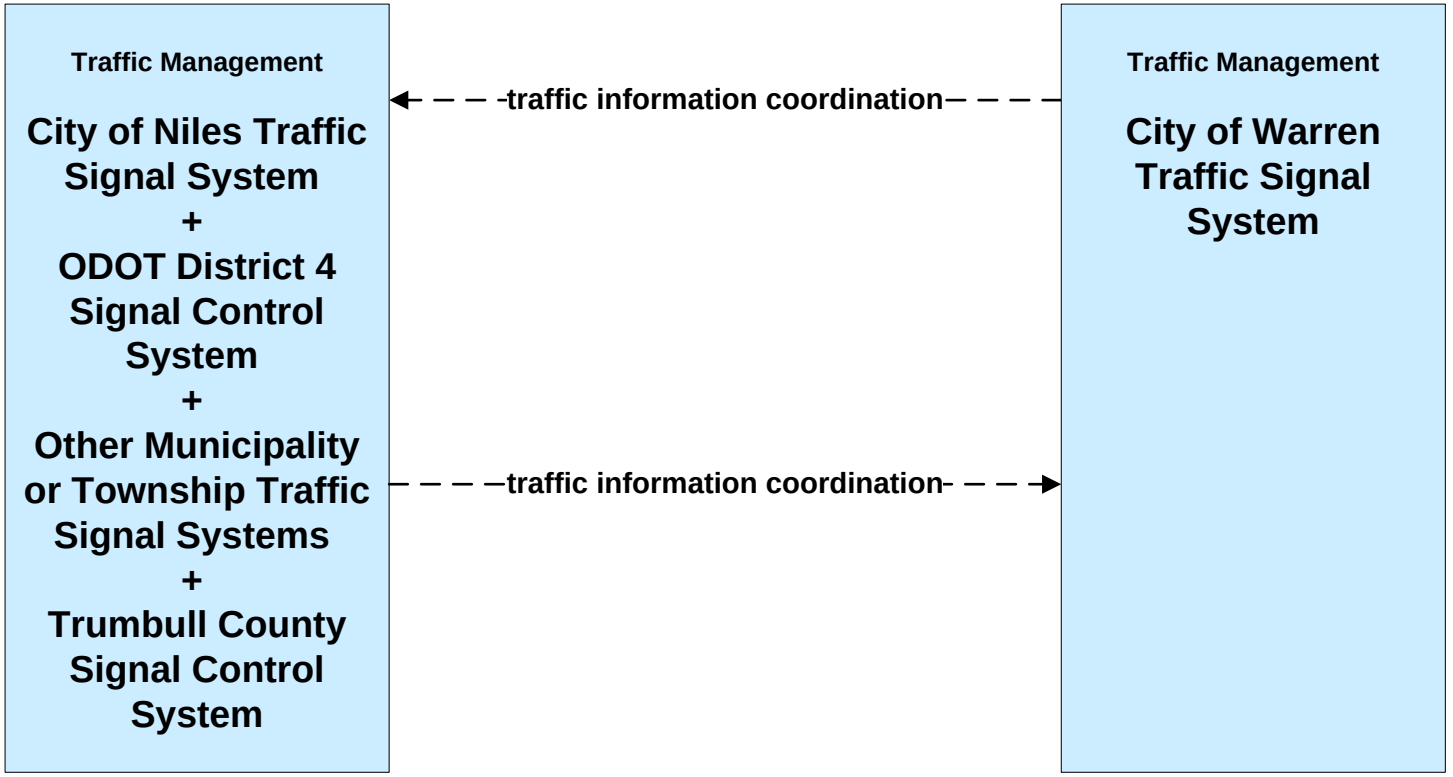


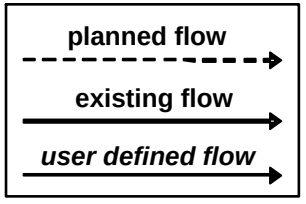


ATMS07 - Regional Traffic Control
City of Niles

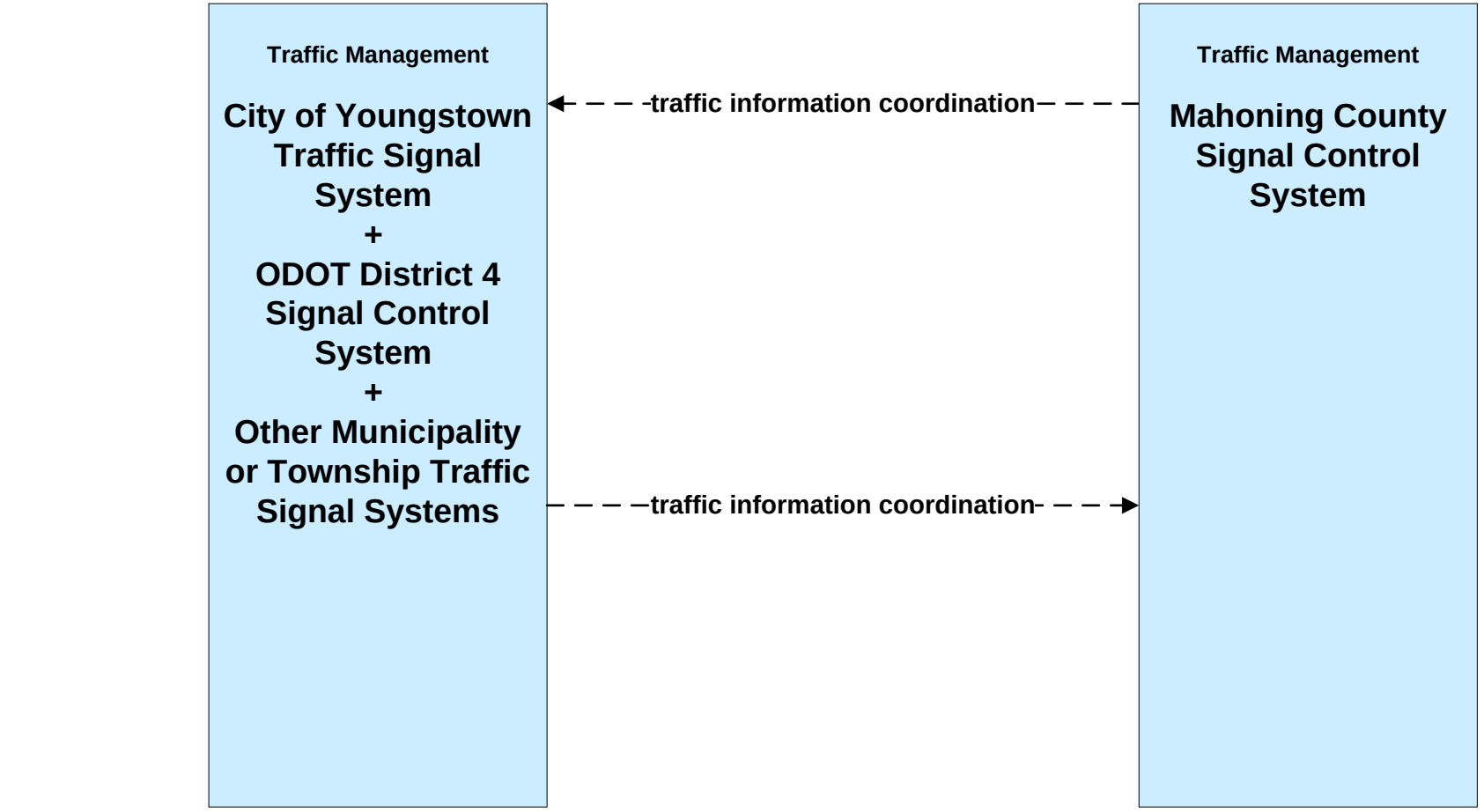


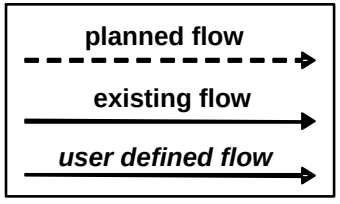
ATMS07 - Regional Traffic Control
City of Warren



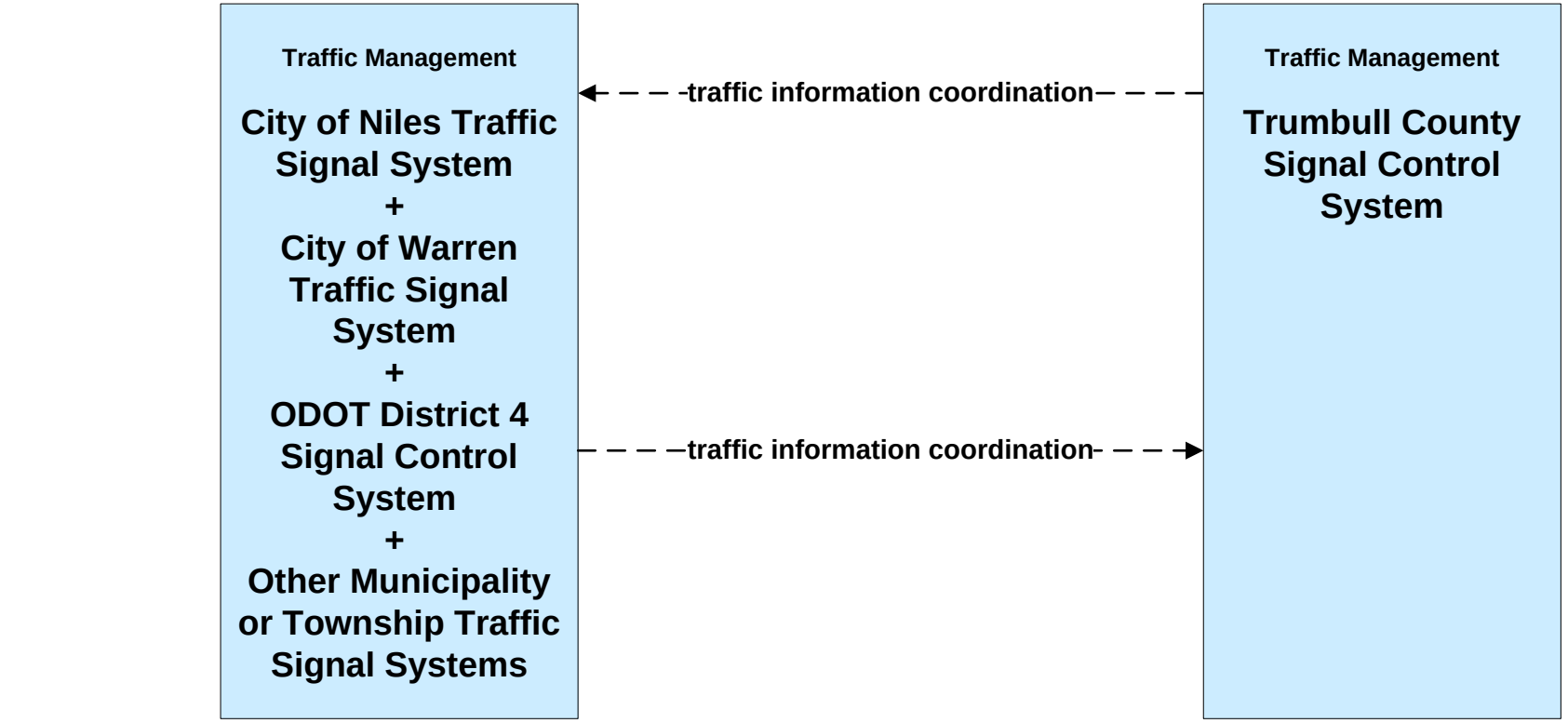


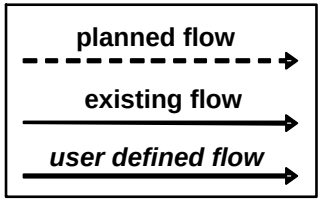
ATMS07 - Regional Traffic Control
Mahoning County



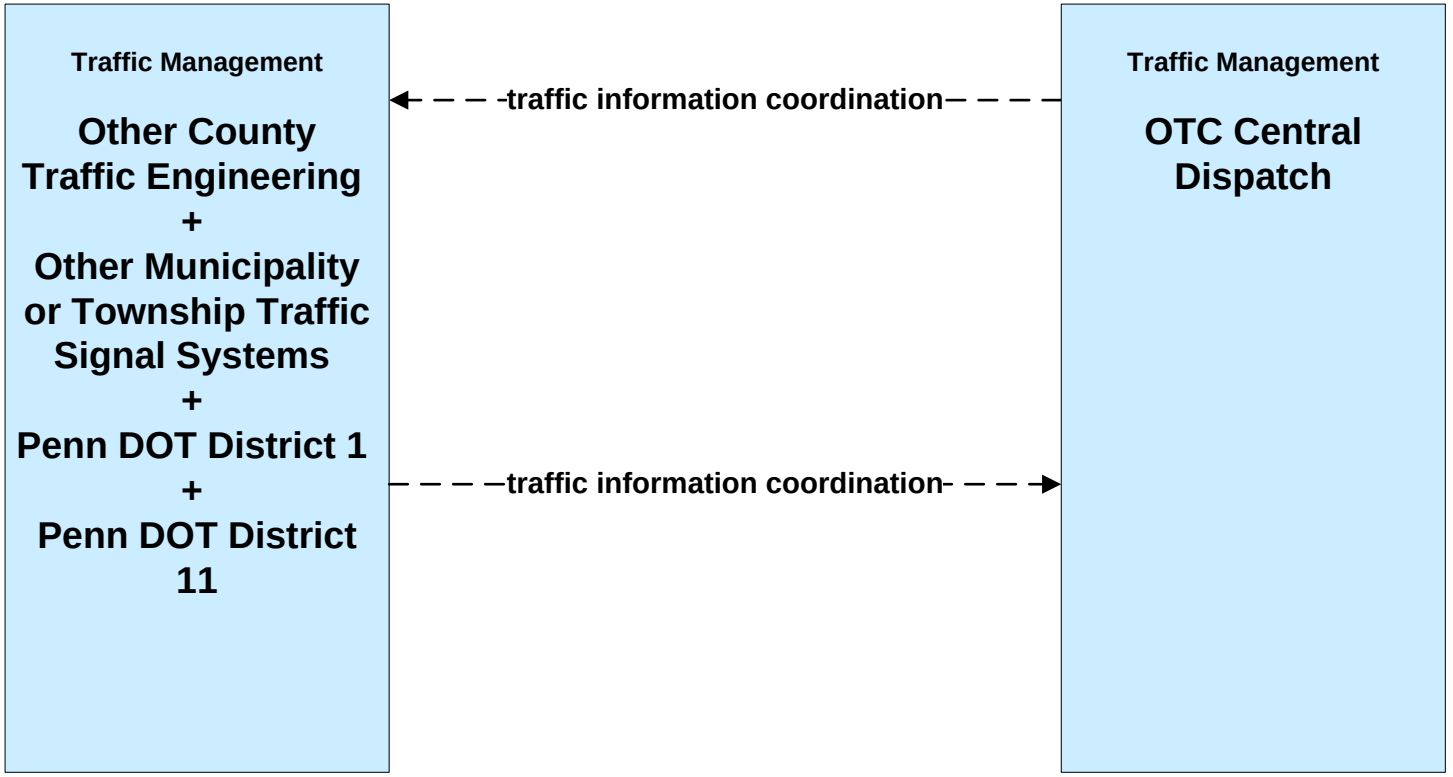


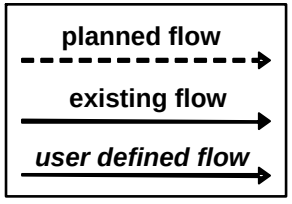
ATMS07 - Regional Traffic Control
Trumbull County





ATMS07 - Regional Traffic Control
OTC





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

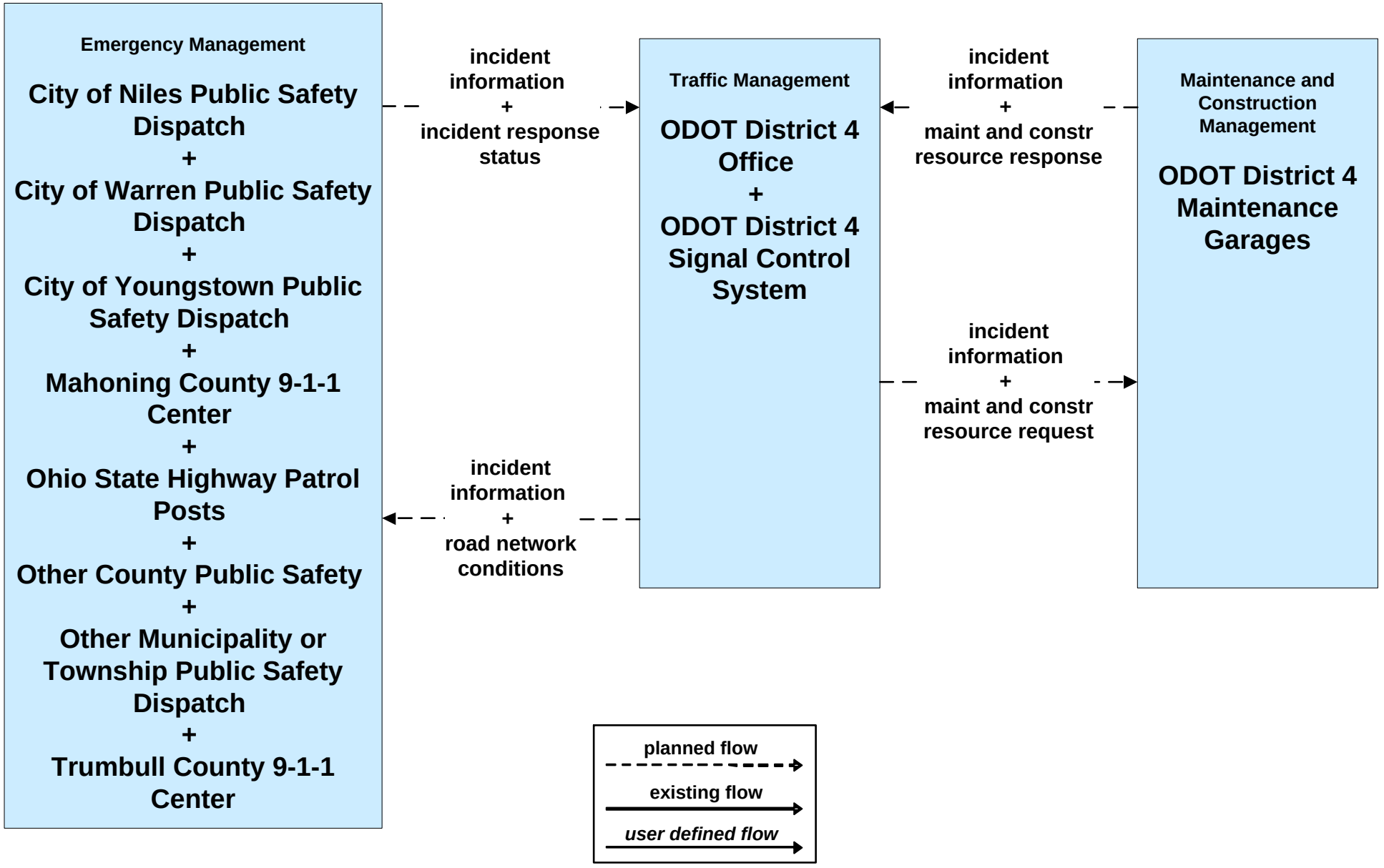
EM2 Covered

Emergency Vehicle Preemption

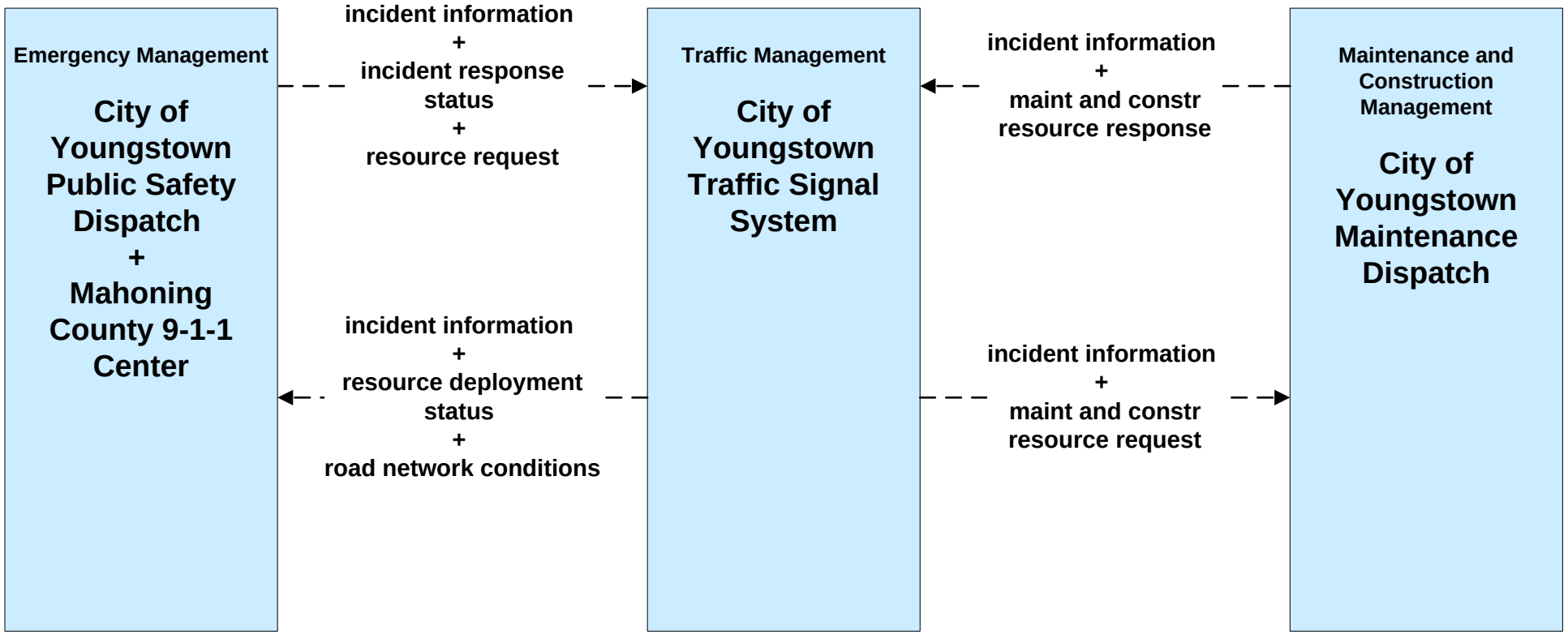
ATMS08 - Incident Management

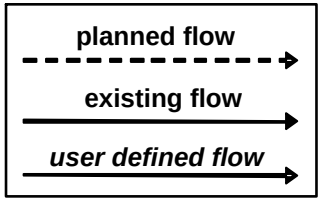
Traffic Management Interfaces to Emergency Management and Maintenance Management

ATMS08 - Incident Management
ODOT District 4 Traffic

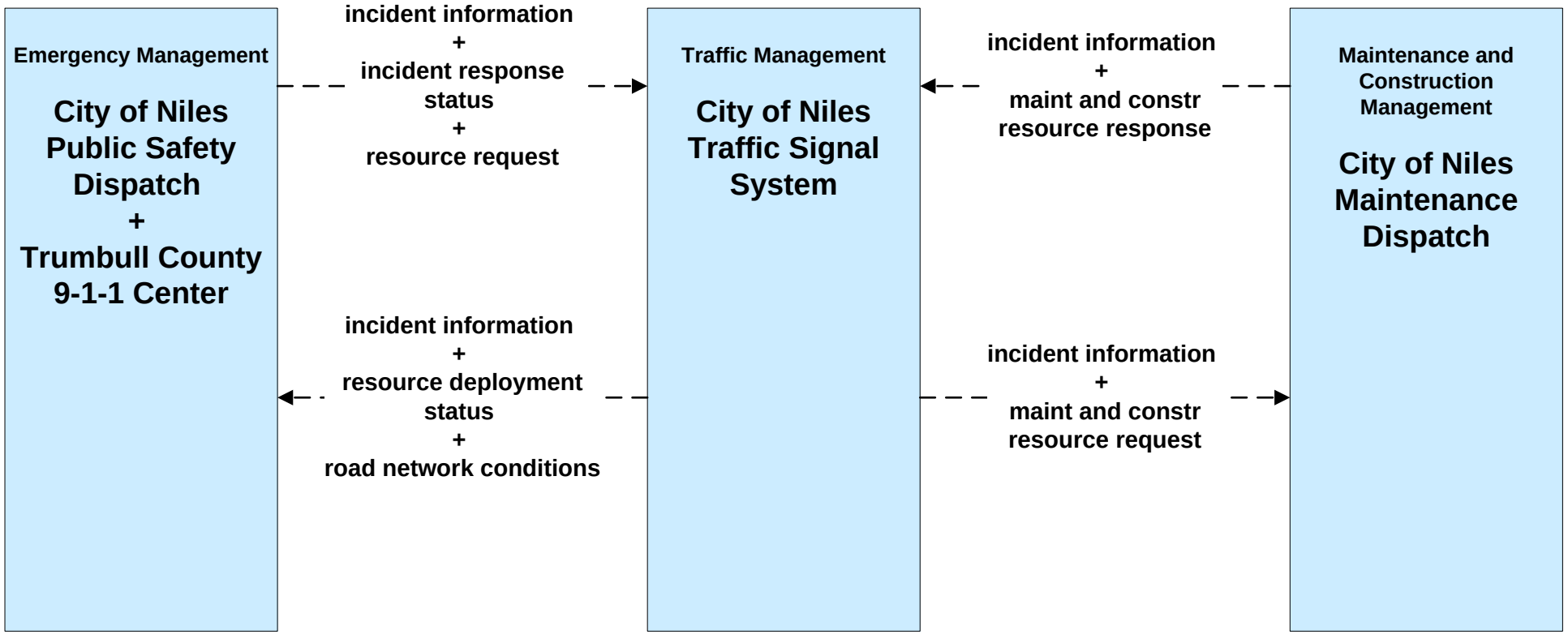


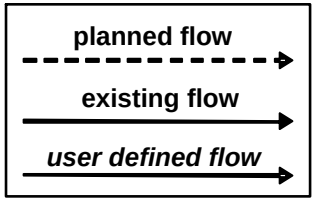
ATMS08 - Incident Management
City of Youngstown Traffic



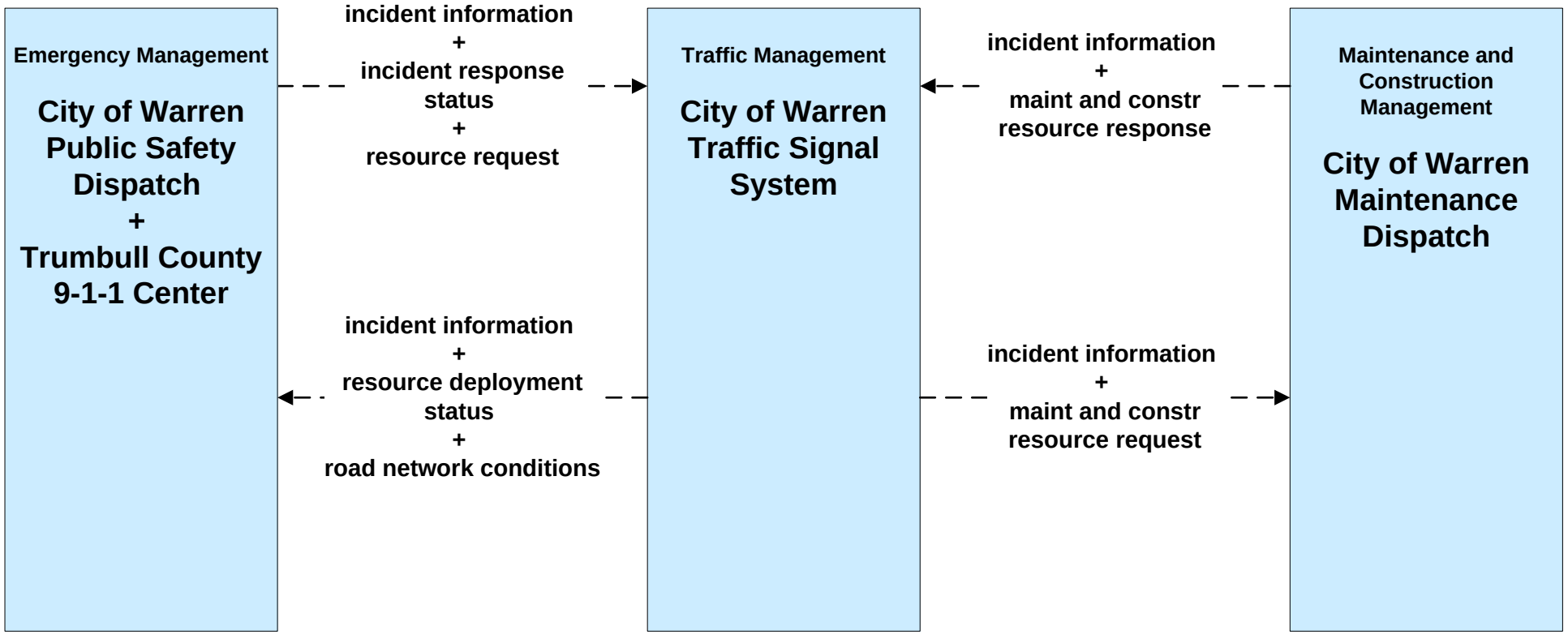


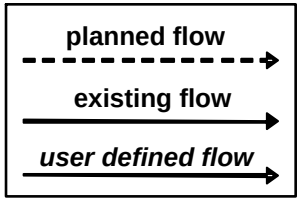
ATMS08 - Incident Management
City of Niles Traffic



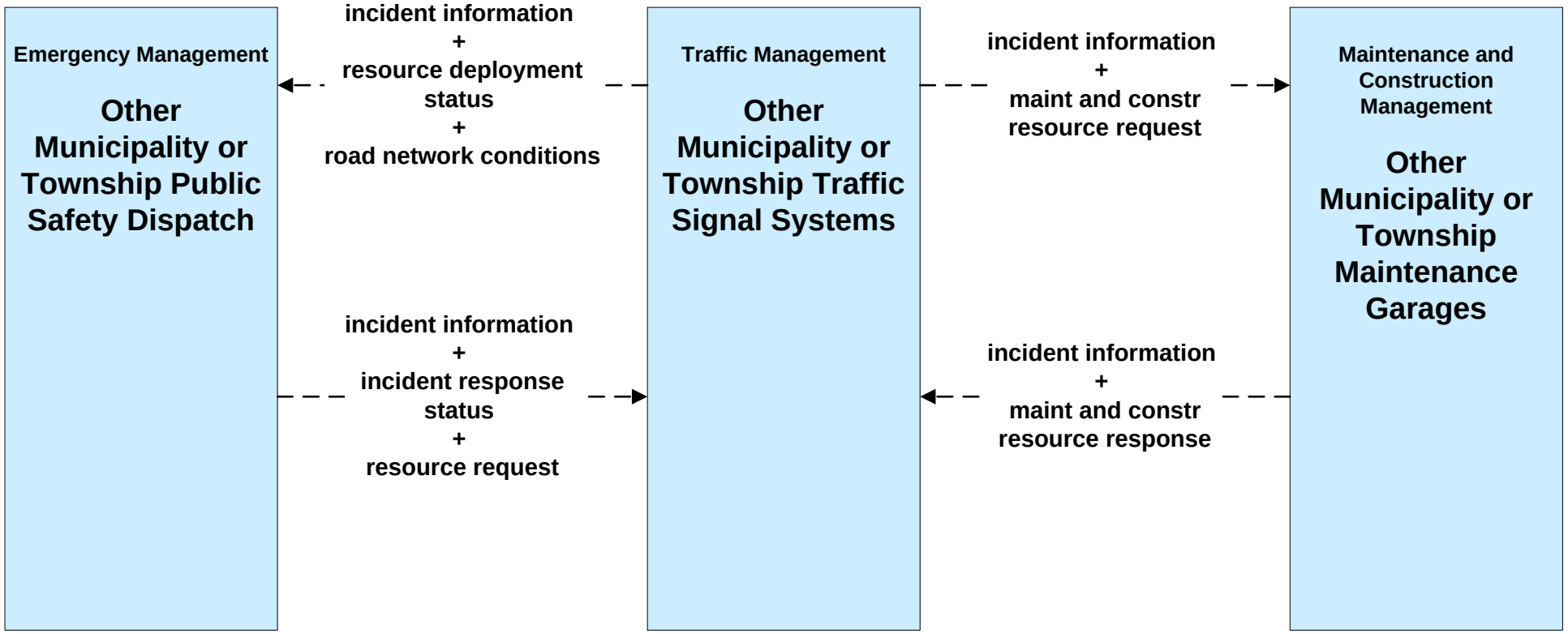


ATMS08 - Incident Management
City of Warren Traffic





ATMS08 - Incident Management
Other Municipality or Township Traffic

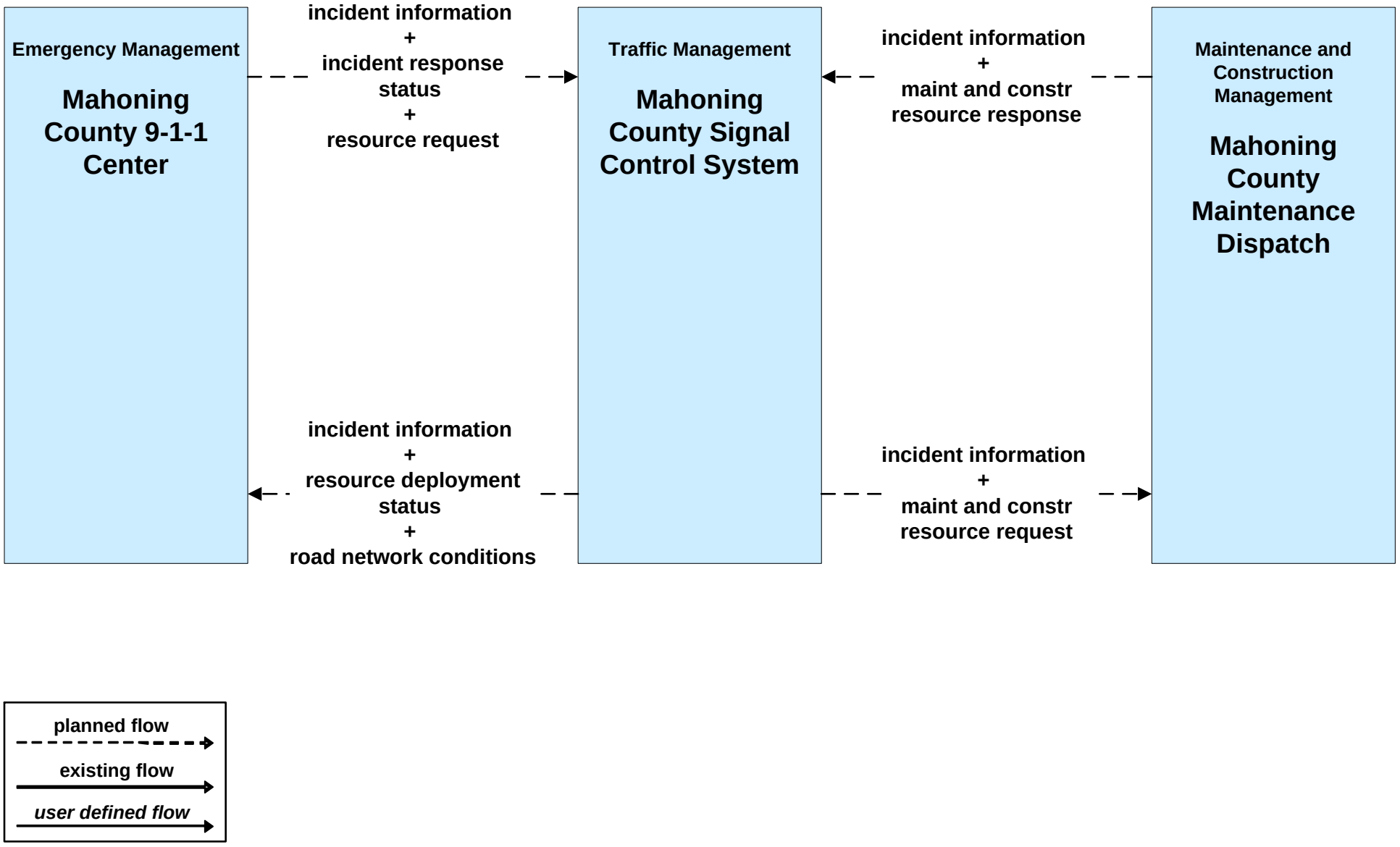


planned flow

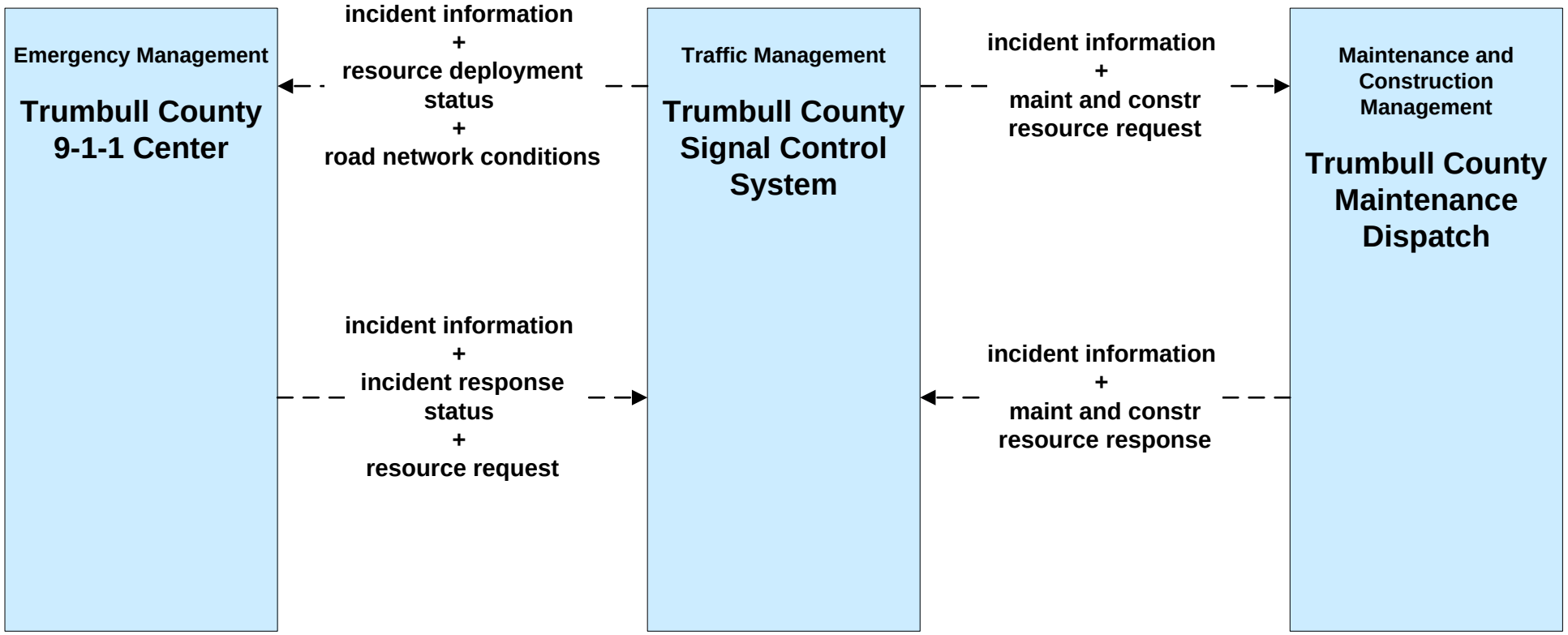
existing flow

user defined flow

ATMS08 - Incident Management
Mahoning County Traffic



ATMS08 - Incident Management
Trumbull County Traffic

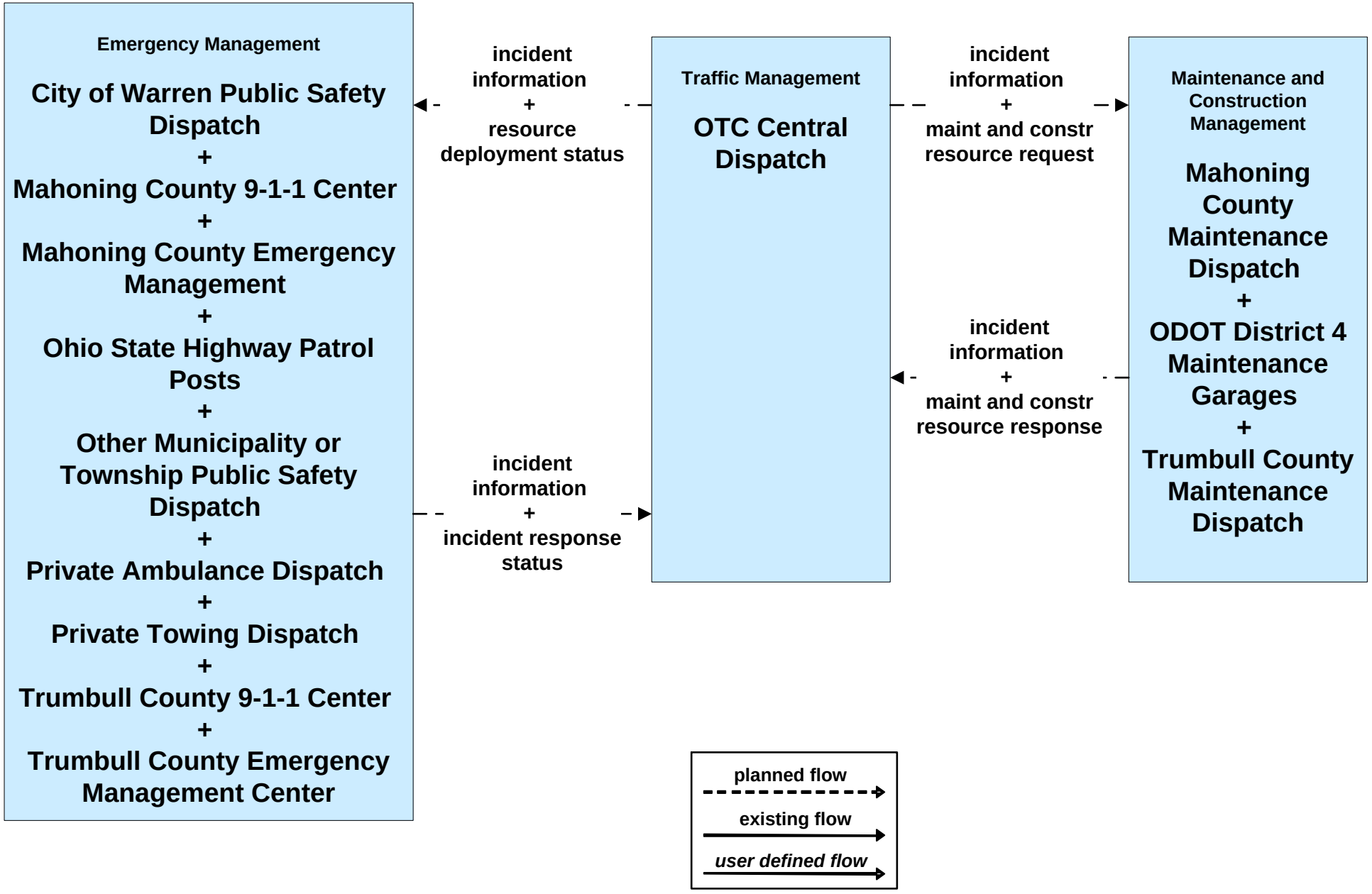


planned flow

existing flow

user defined flow

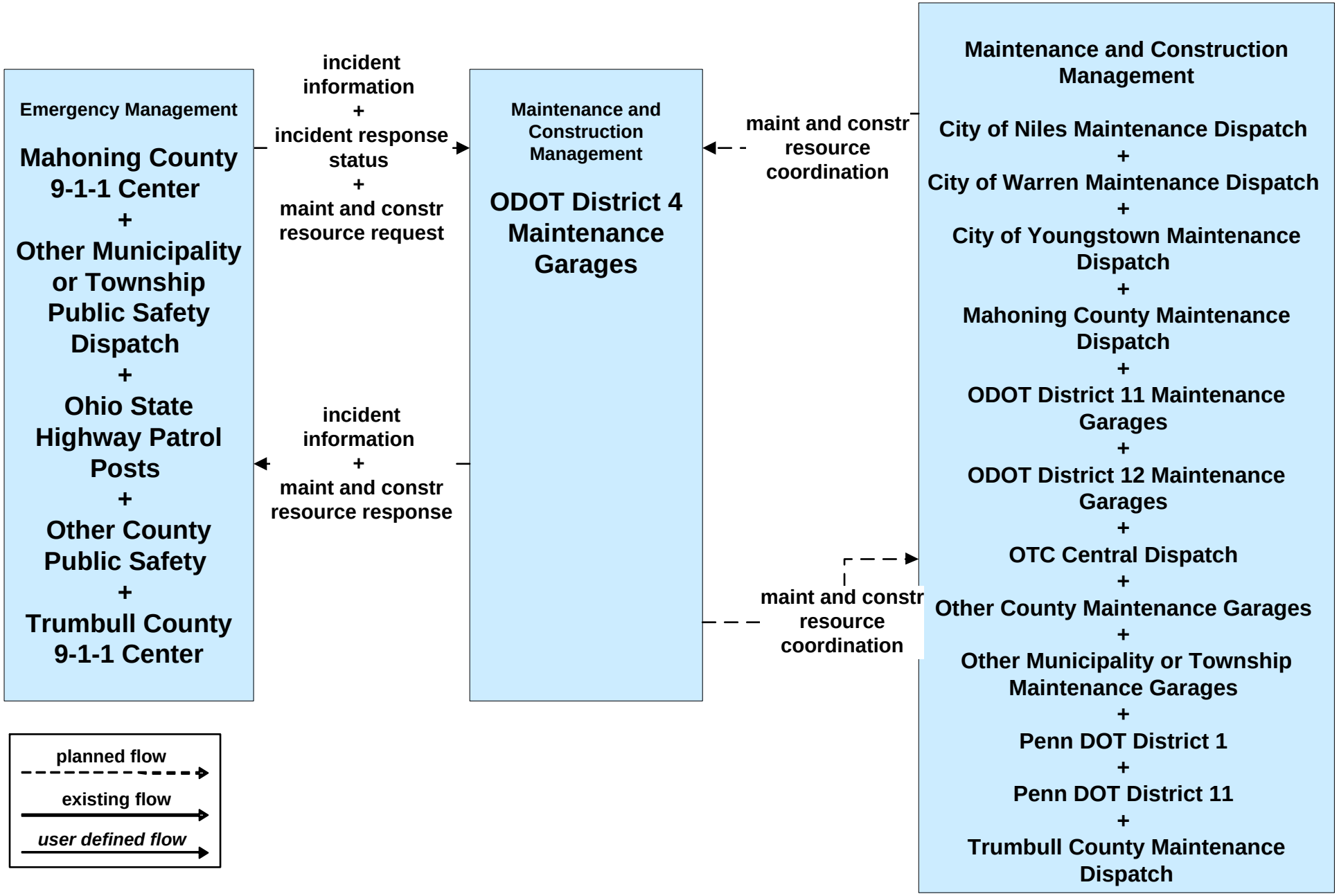
ATMS08 - Incident Management
OTC



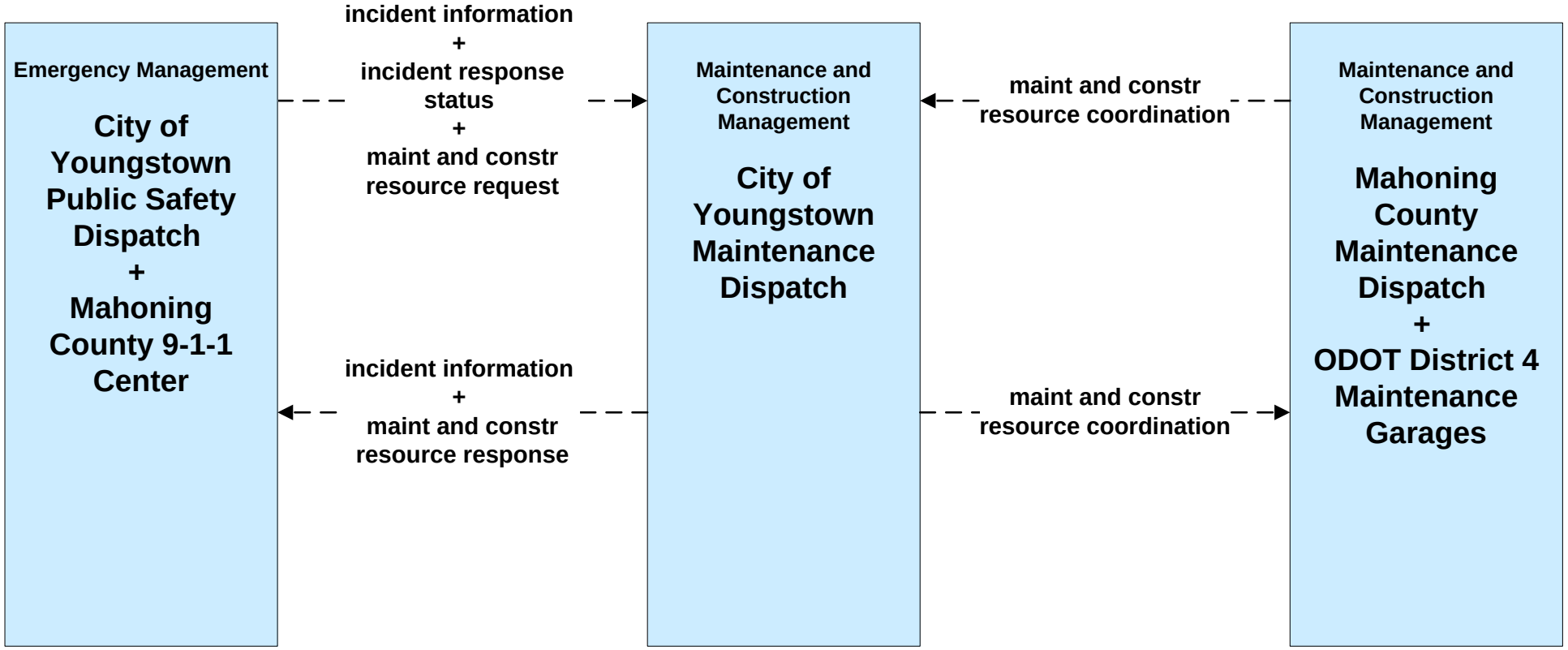
ATMS08 - Incident Management

Maintenance and Construction Management Interfaces to Emergency Management and Other Maintenance and Construction Management

ATMS08 - Incident Management
ODOT District 4 Maintenance



ATMS08 - Incident Management
City of Youngstown Maintenance

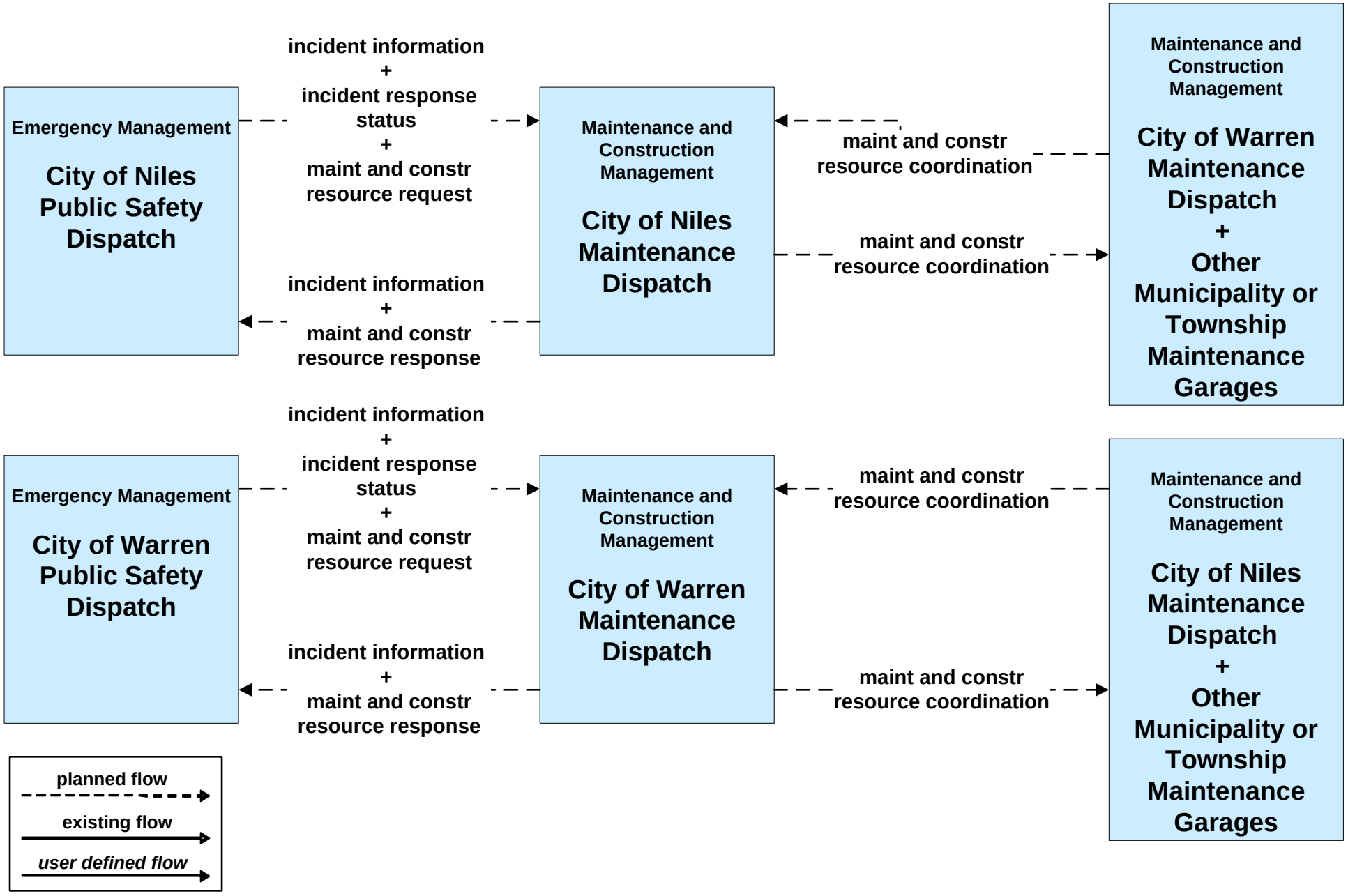


planned flow

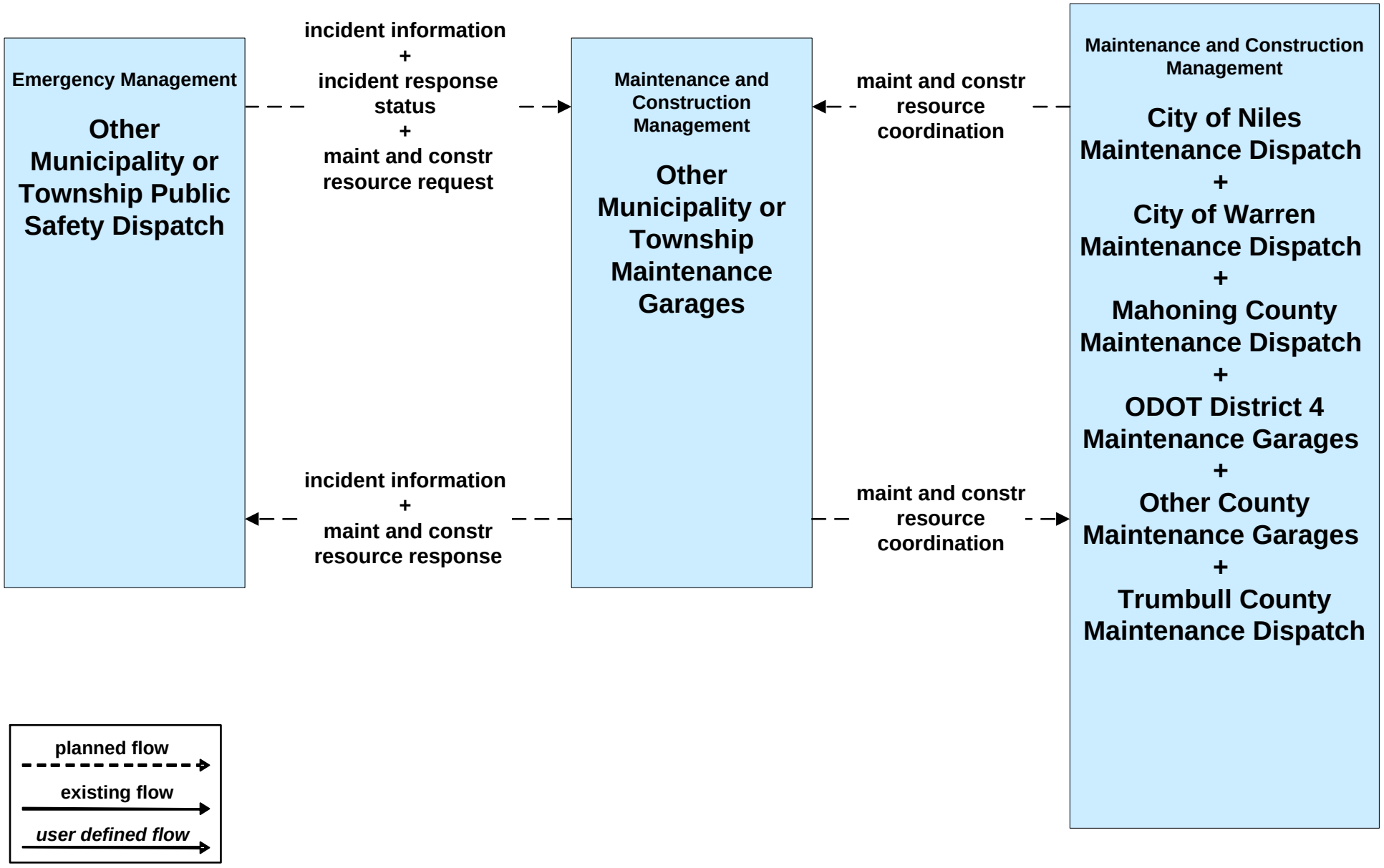
existing flow

user defined flow

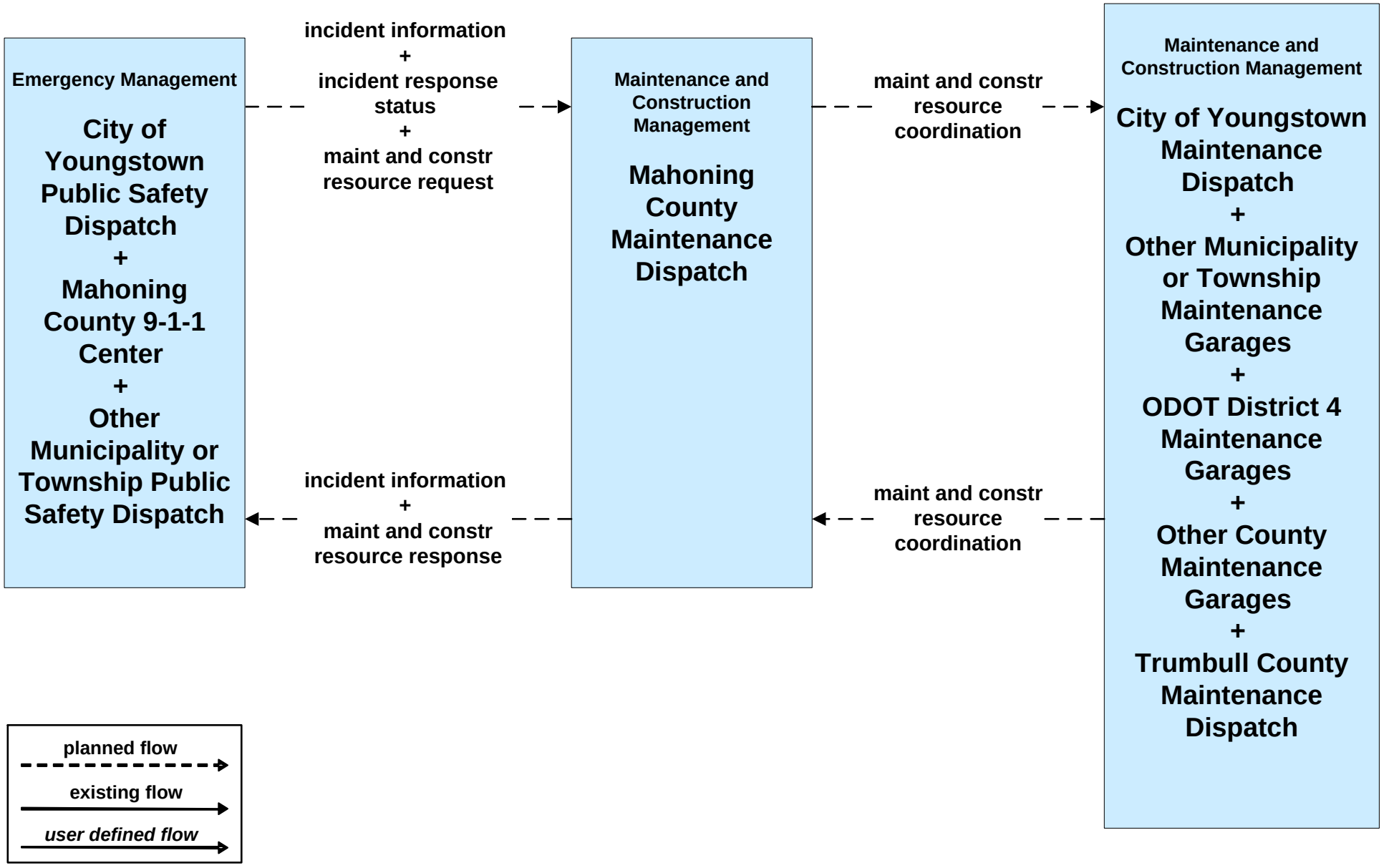
ATMS08 - Incident Management
City of Niles/ Warren Maintenance Dispatch



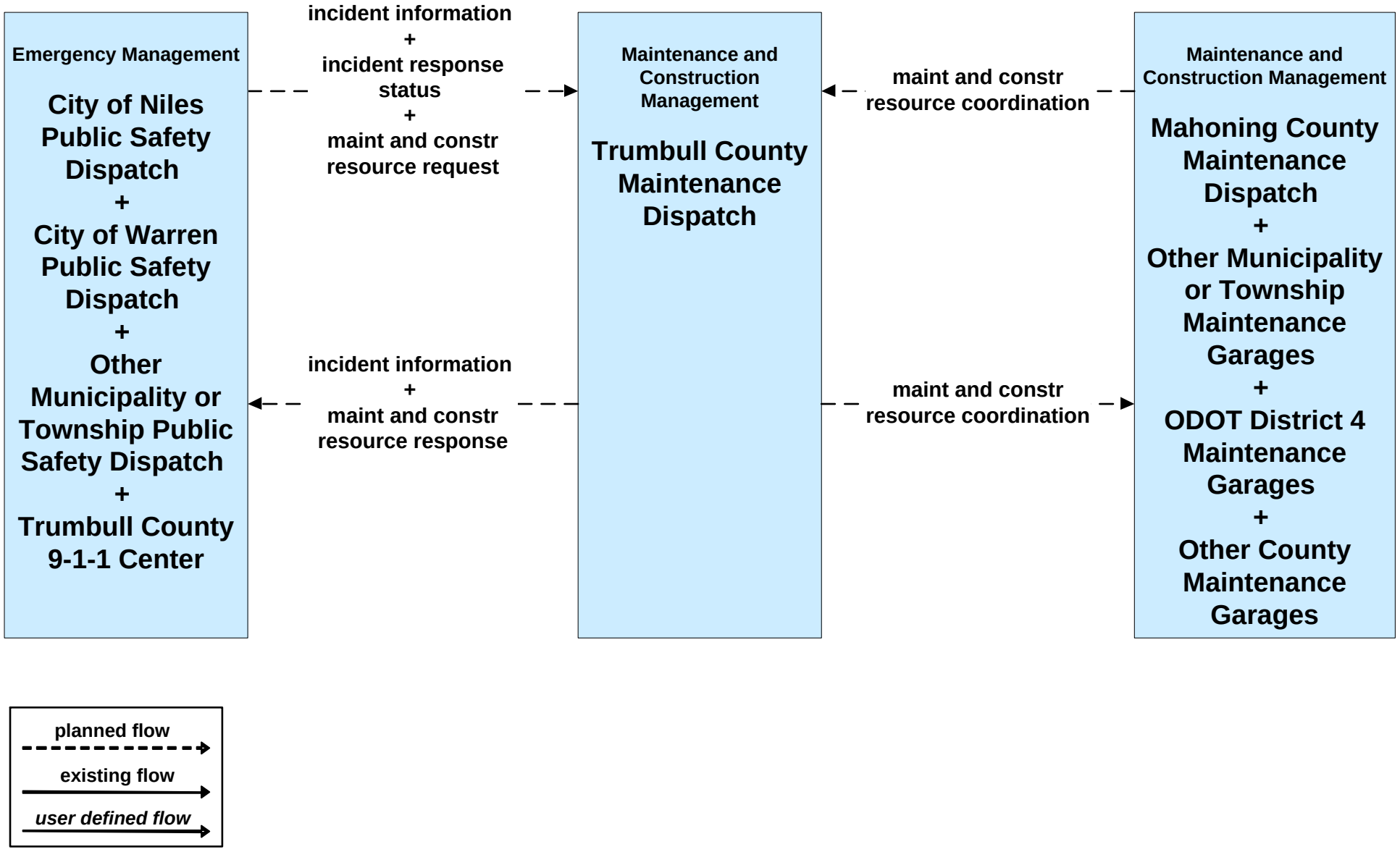
ATMS08 - Incident Management
Other Municipality/ Township Maintenance Dispatch



ATMS08 - Incident Management
Mahoning County Maintenance Dispatch



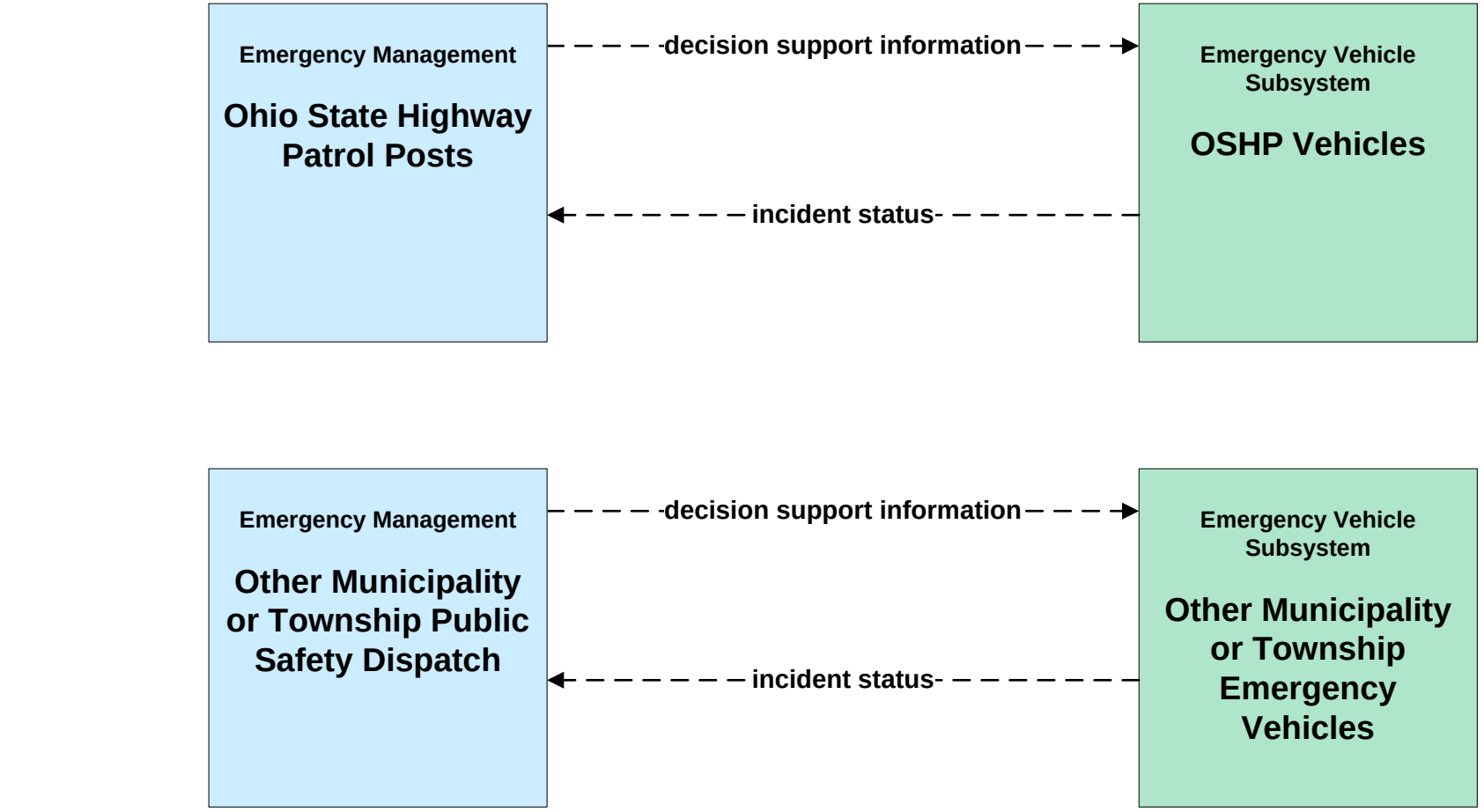
ATMS08 - Incident Management
Trumbull County Maintenance



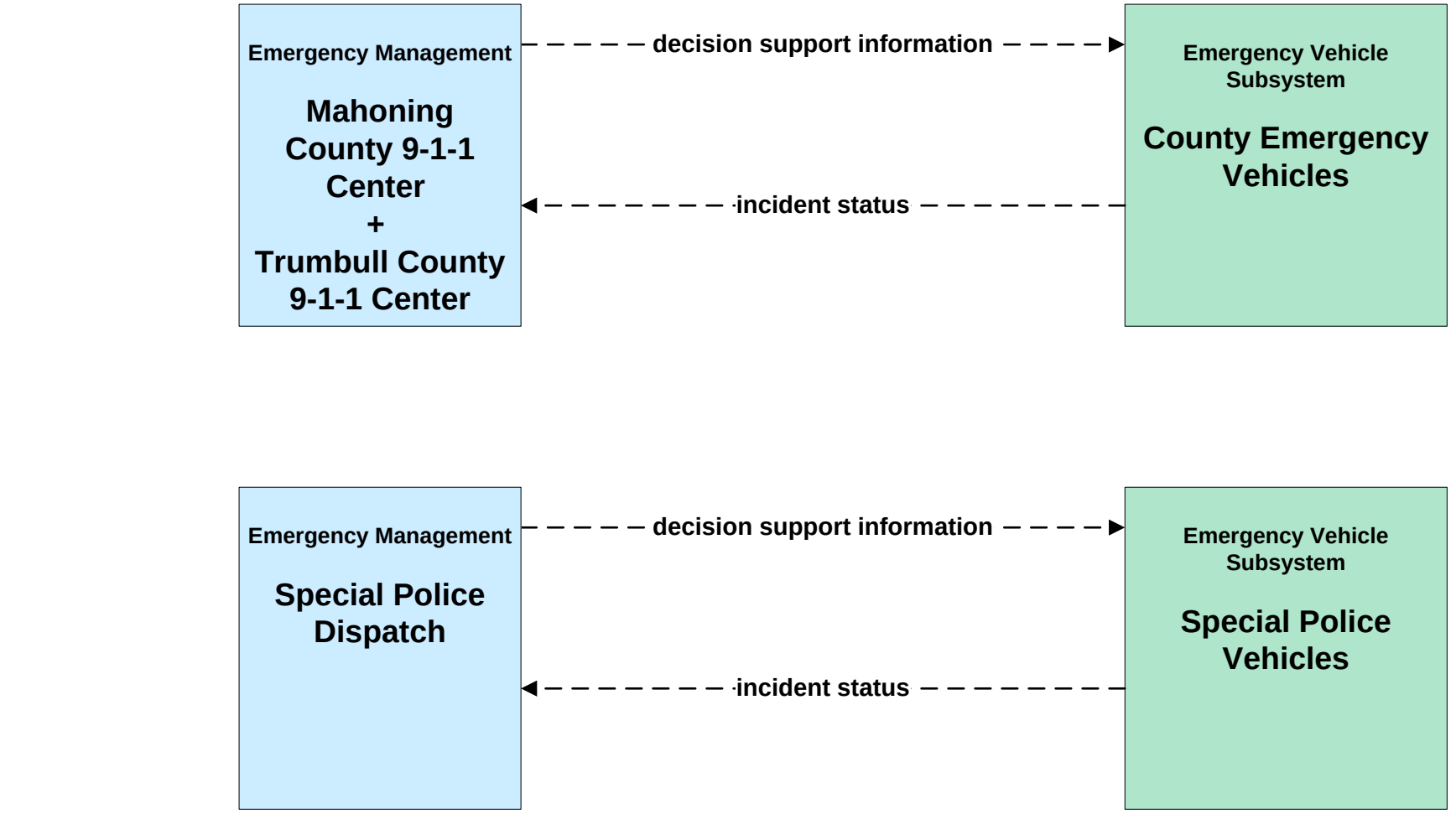
ATMS08 - Incident Management

Emergency Management ←→ Emergency Vehicles

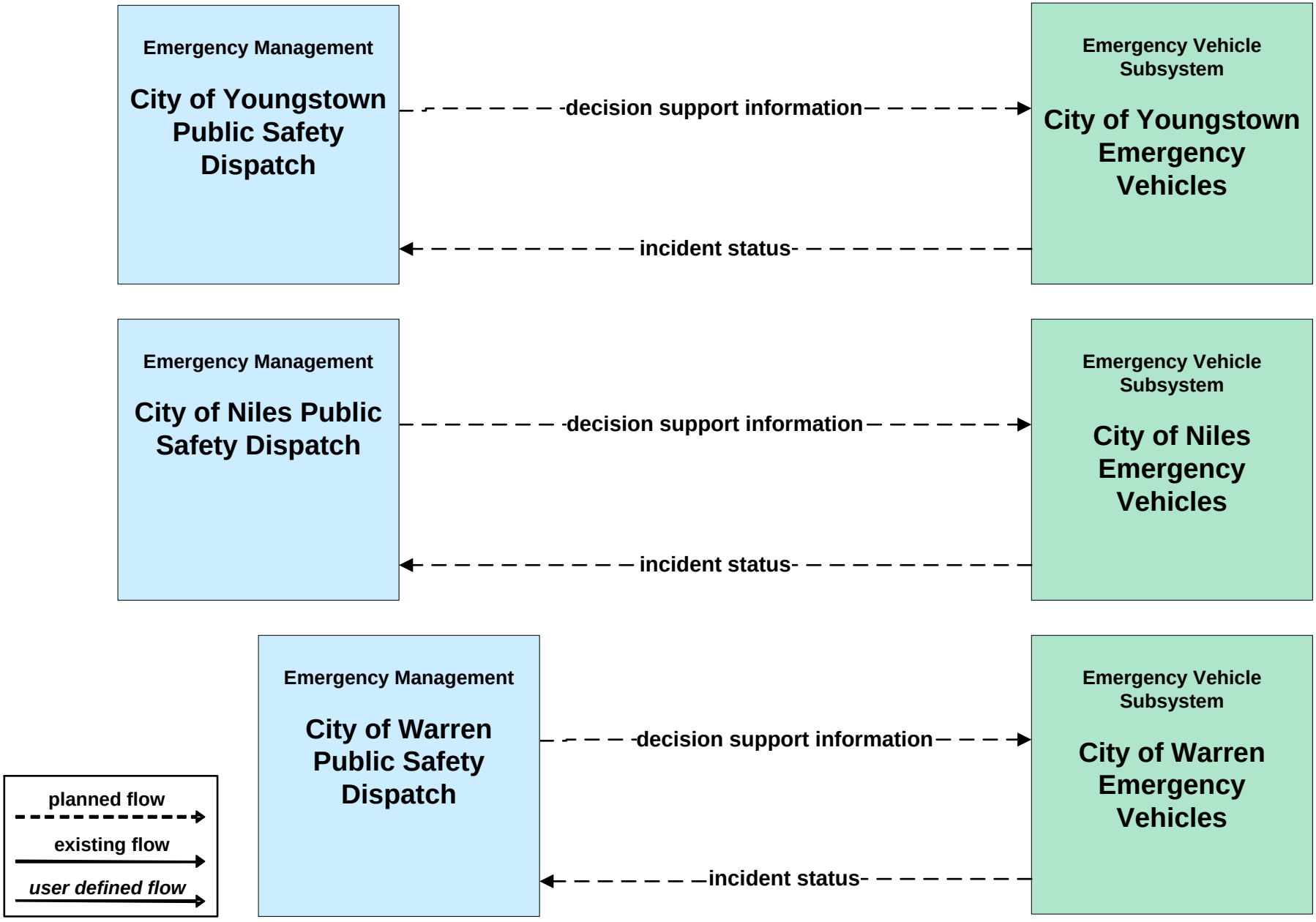
ATMS08 - Incident Management
Ohio State Highway Patrol / Municipal Public Safety



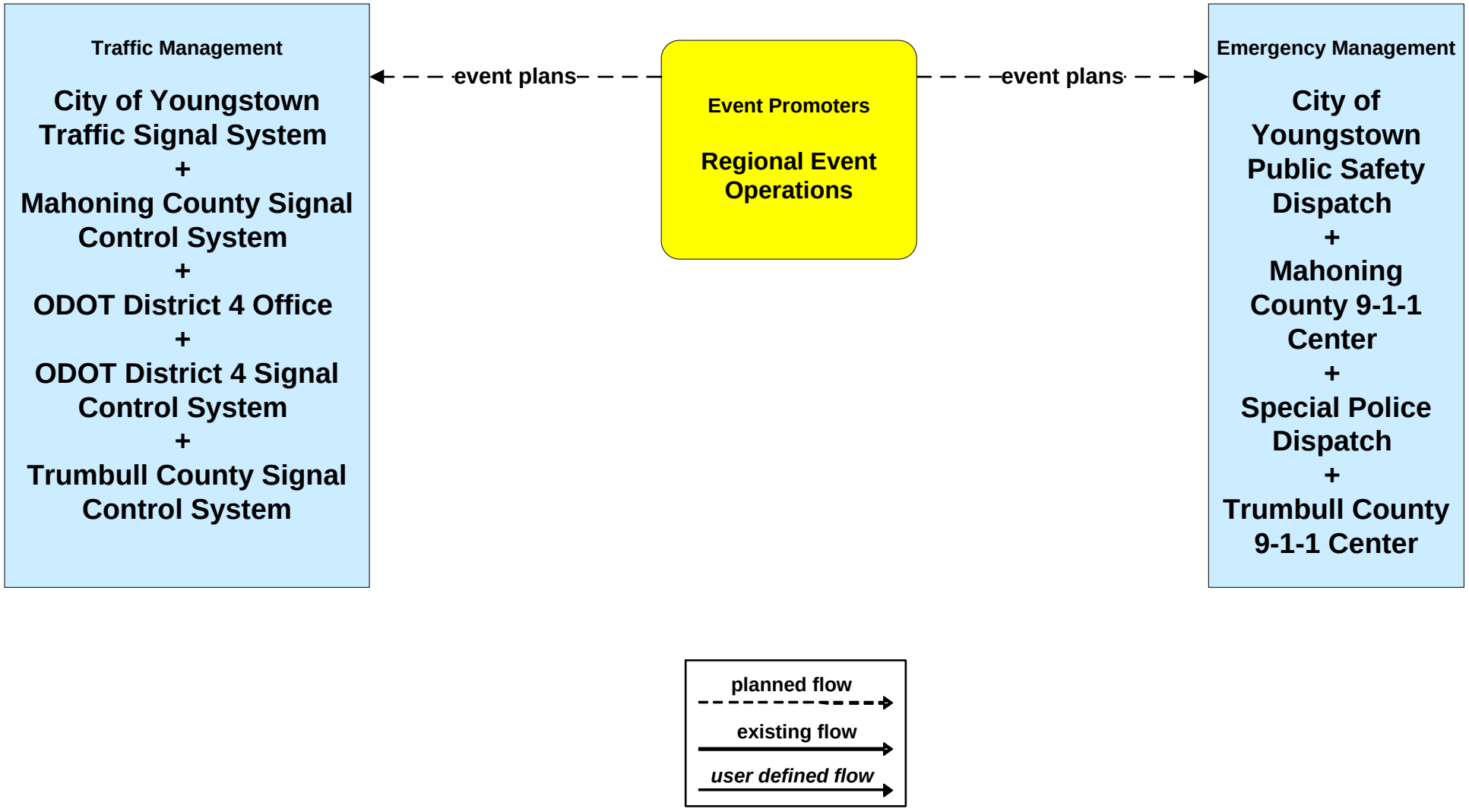
ATMS08 - Incident Management
County Public Safety / Special Police Dispatch



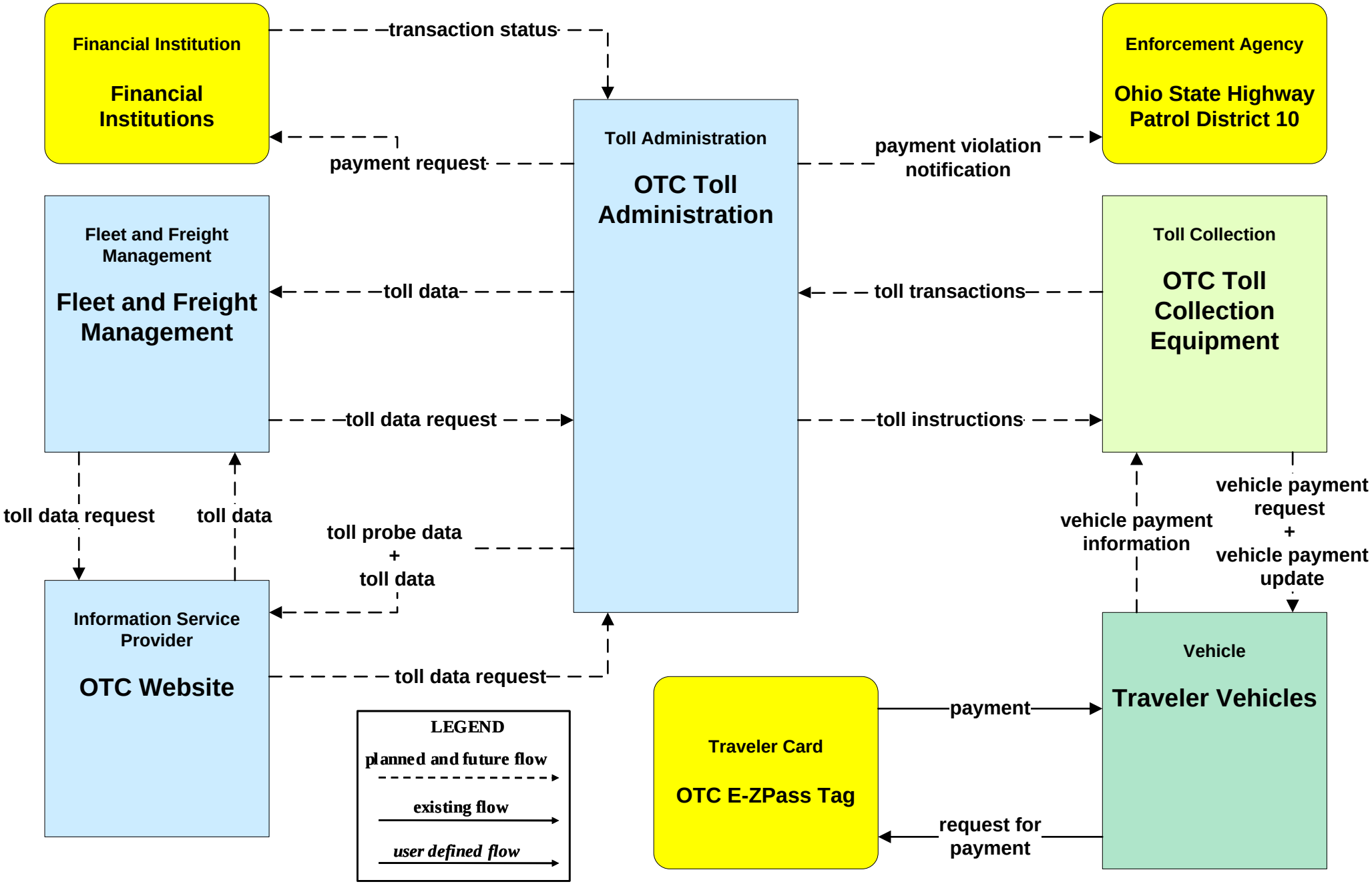
ATMS08 - Incident Management
City of Youngstown / City of Niles / City of Youngstown



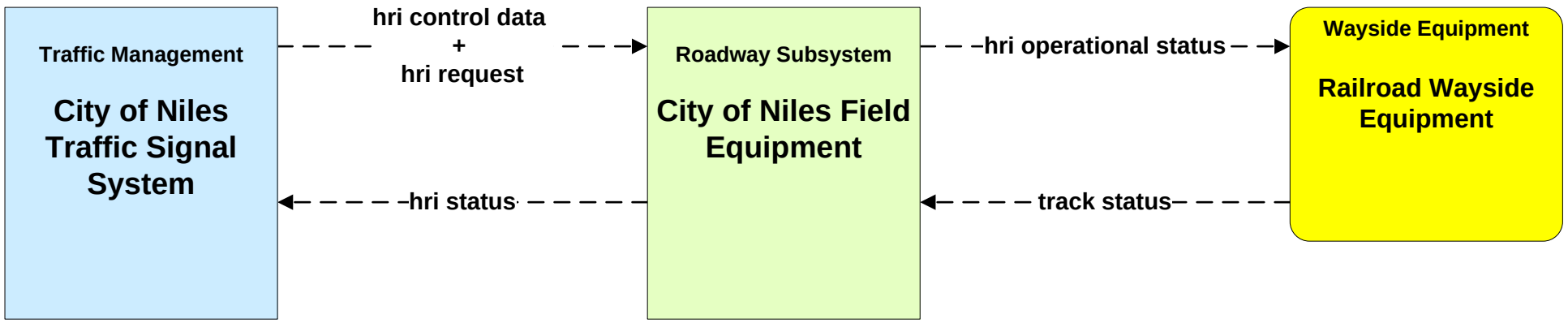
ATMS08 - Incident Management
Event Promoter Interfaces

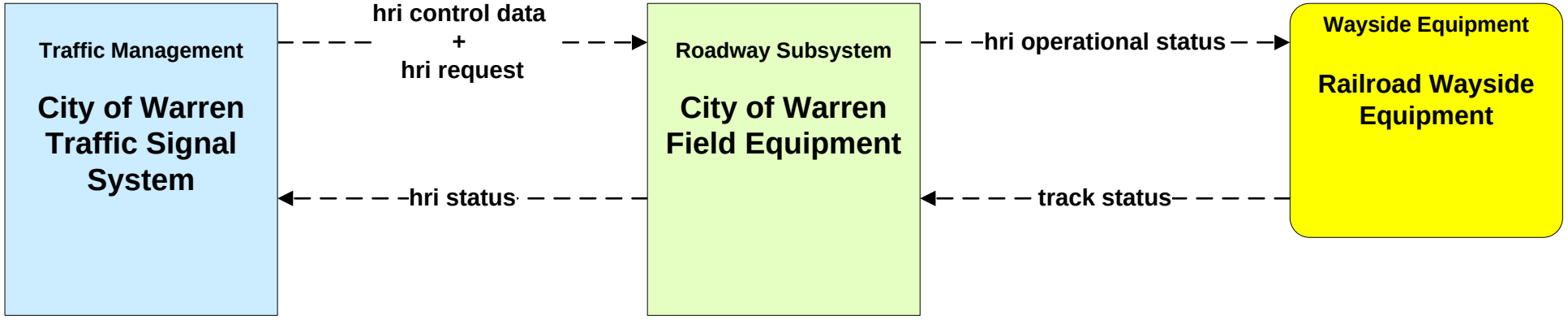


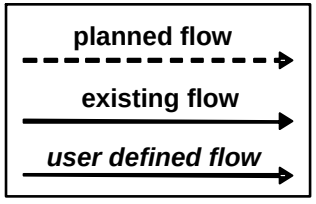
ATMS10 - Electronic Toll Collection
Ohio Turnpike Commission



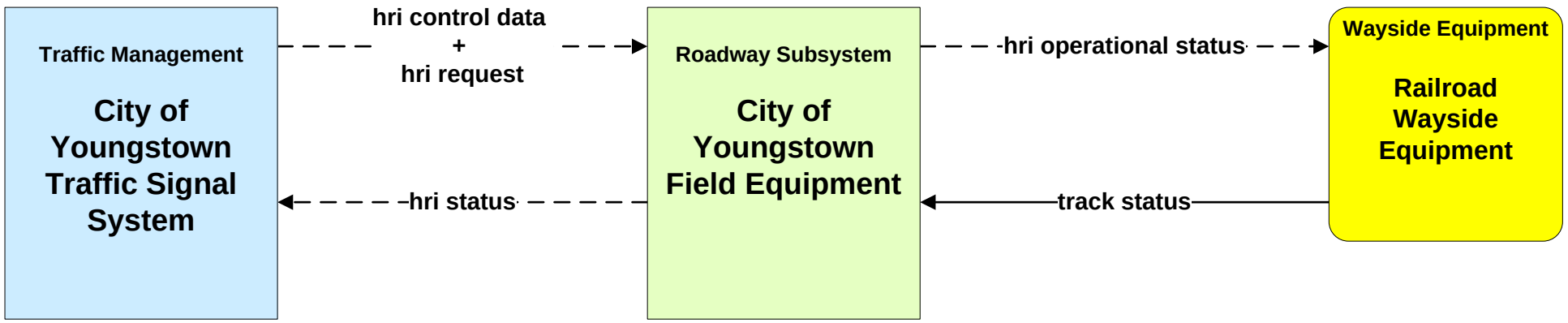
ATMS13 - Standard Railroad Crossing
City of Niles / City of Warren

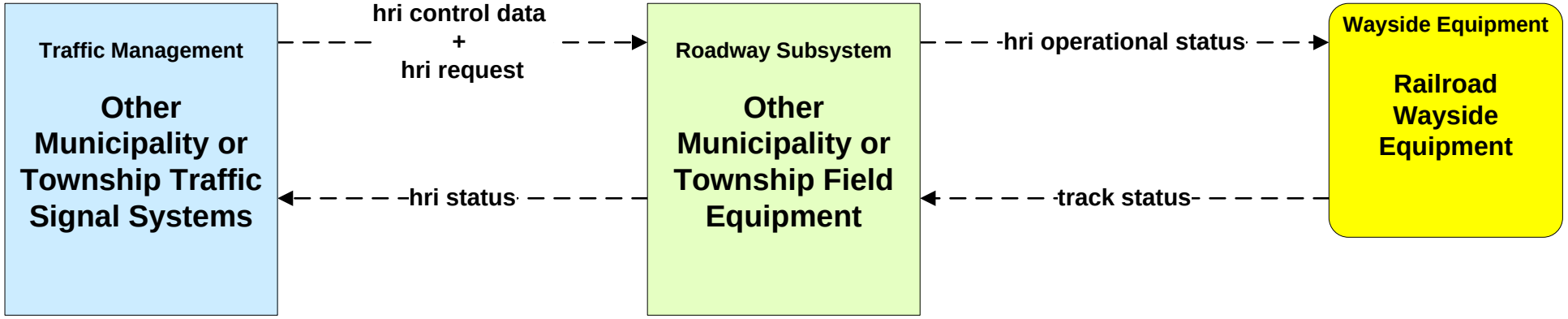


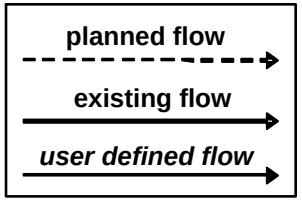




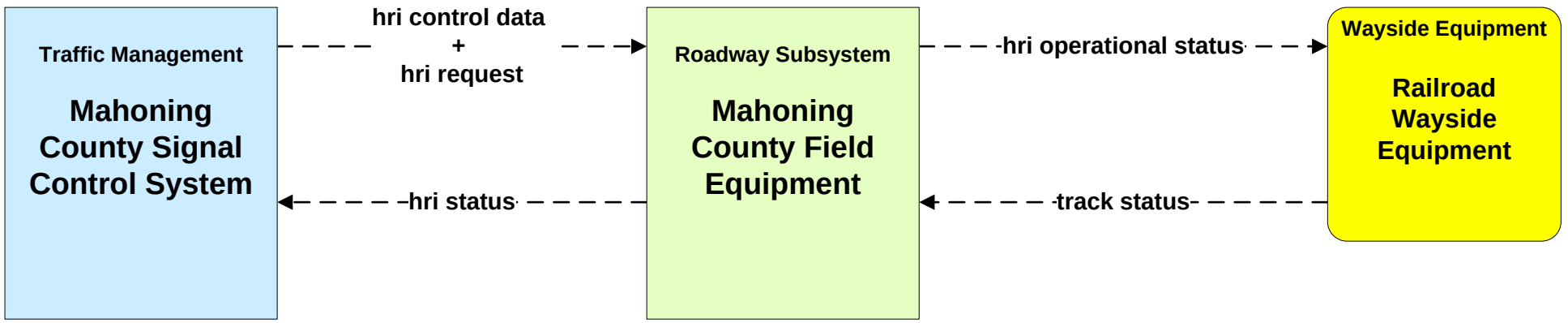
ATMS13 - Standard Railroad Crossing
City of Youngstown / Municipalities

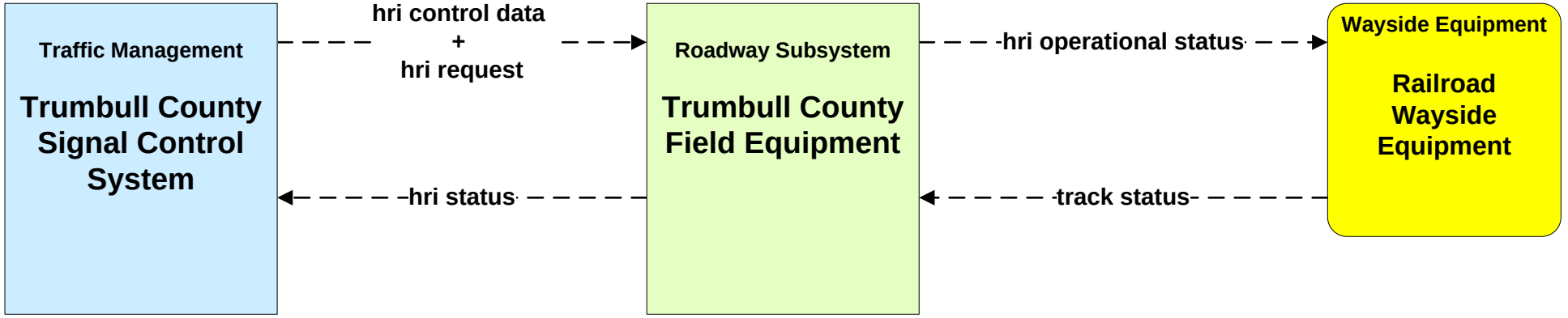


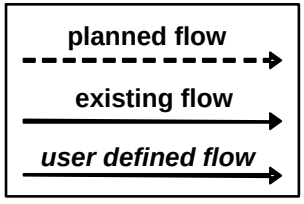




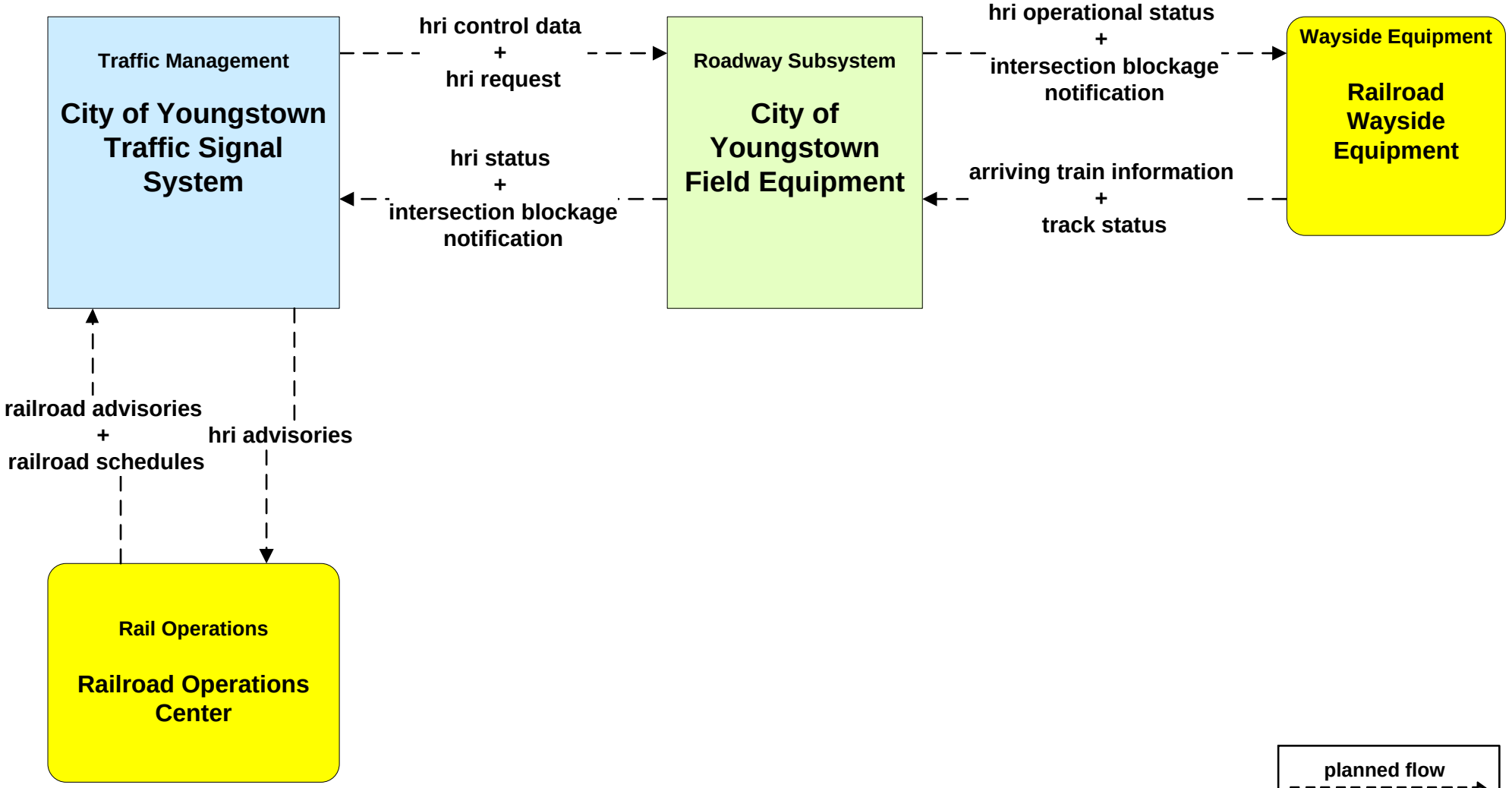
ATMS13 - Standard Railroad Crossing
Mahoning/ Trumbull Counties



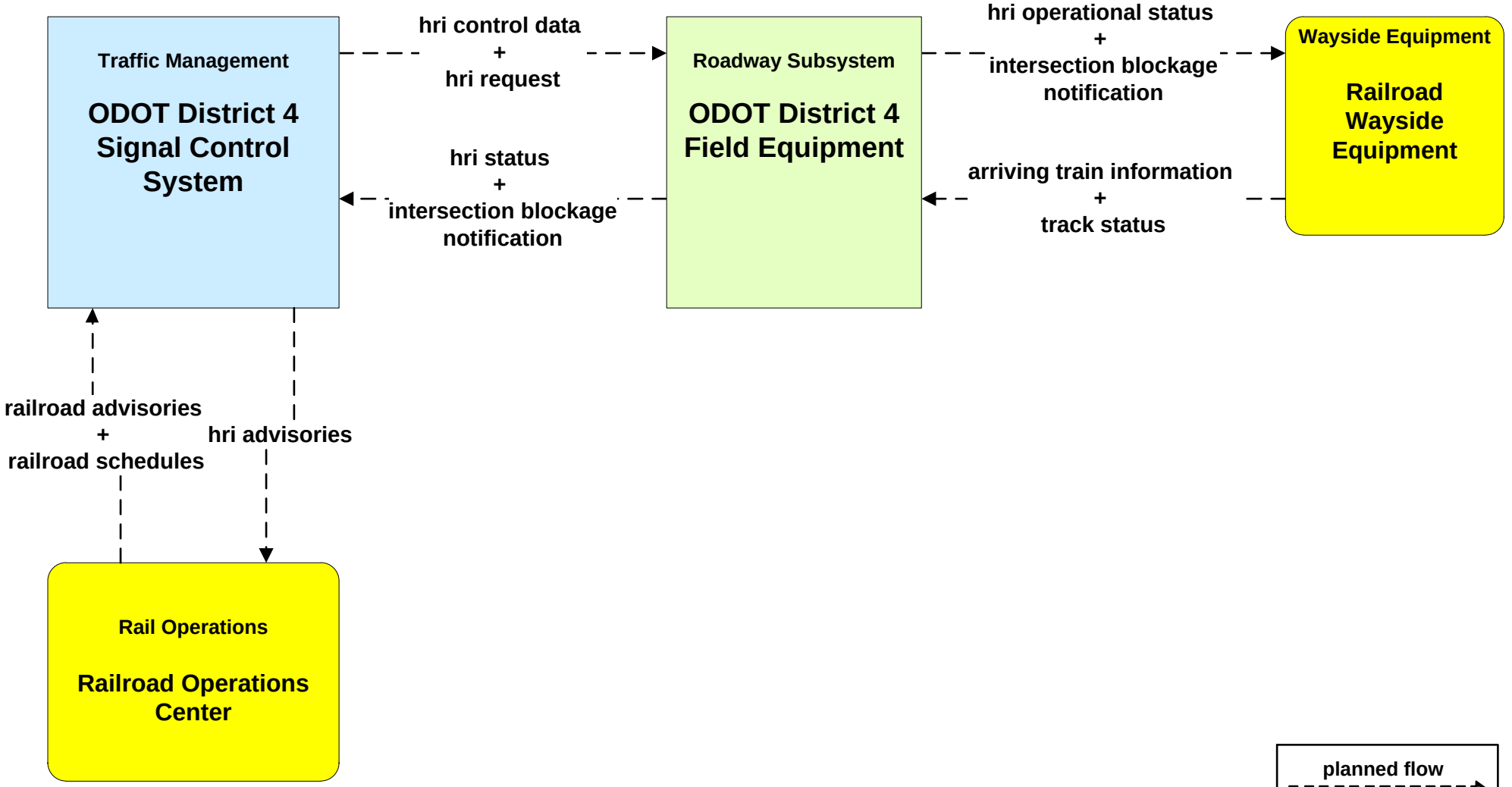




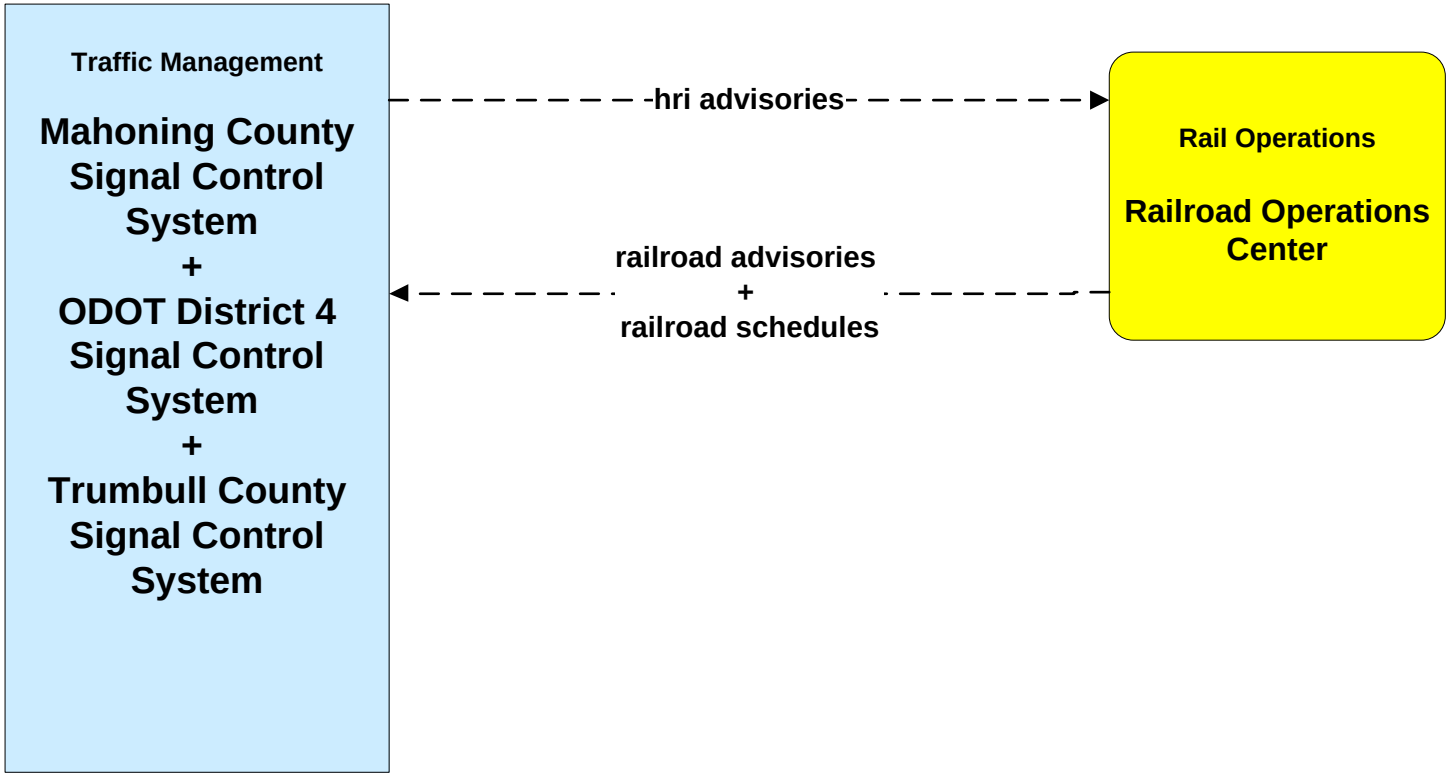
ATMS14 - Advanced Railroad Grade Crossing
City of Youngstown

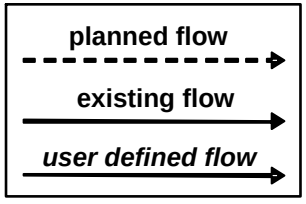
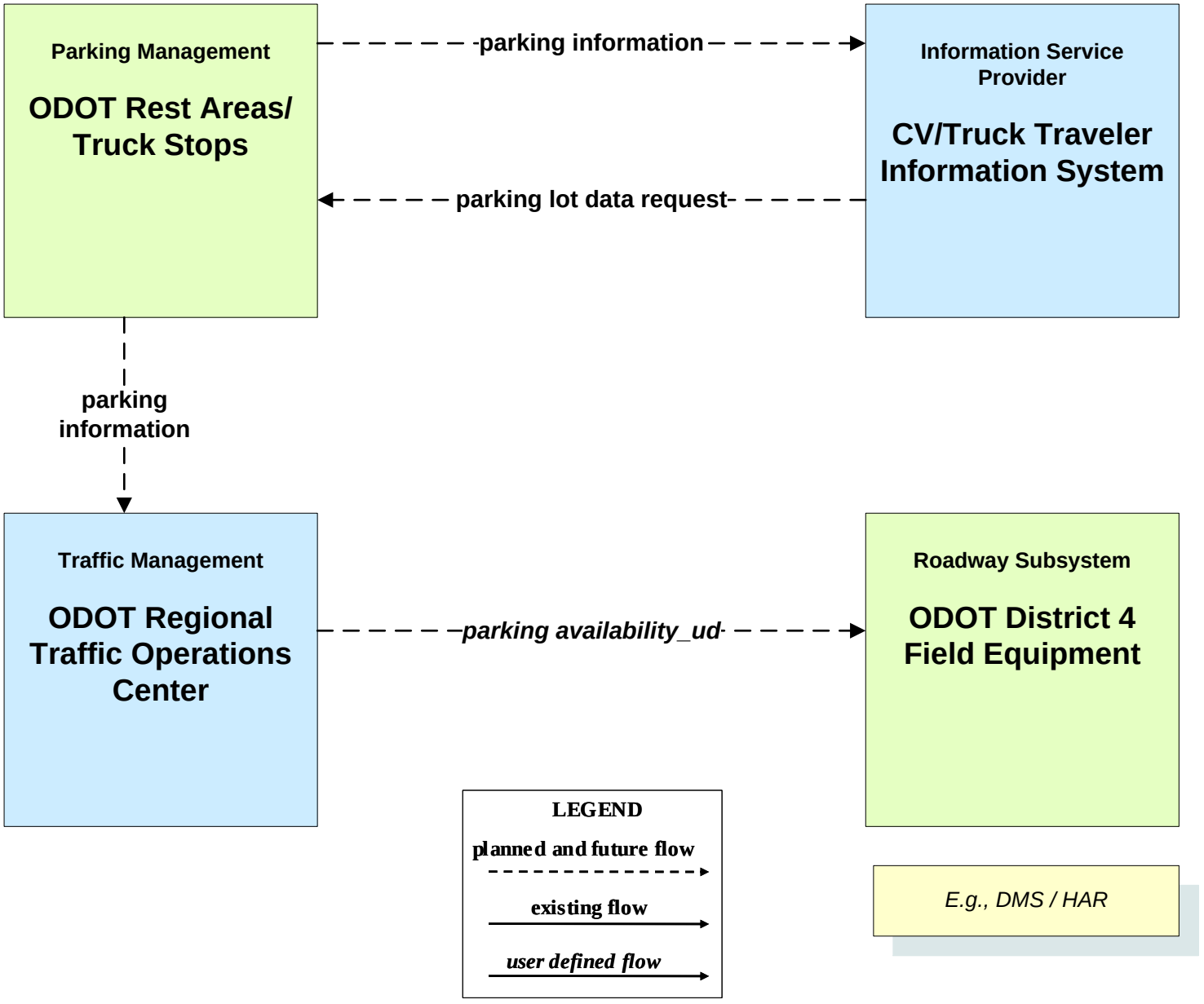


ATMS14 - Advanced Railroad Grade Crossing
ODOT



ATMS15 - Railroad Operations Coordination
TMCs to Rail Operators





ATMS16 - Parking Facility Management
ODOT Rest Areas / Truck Stops