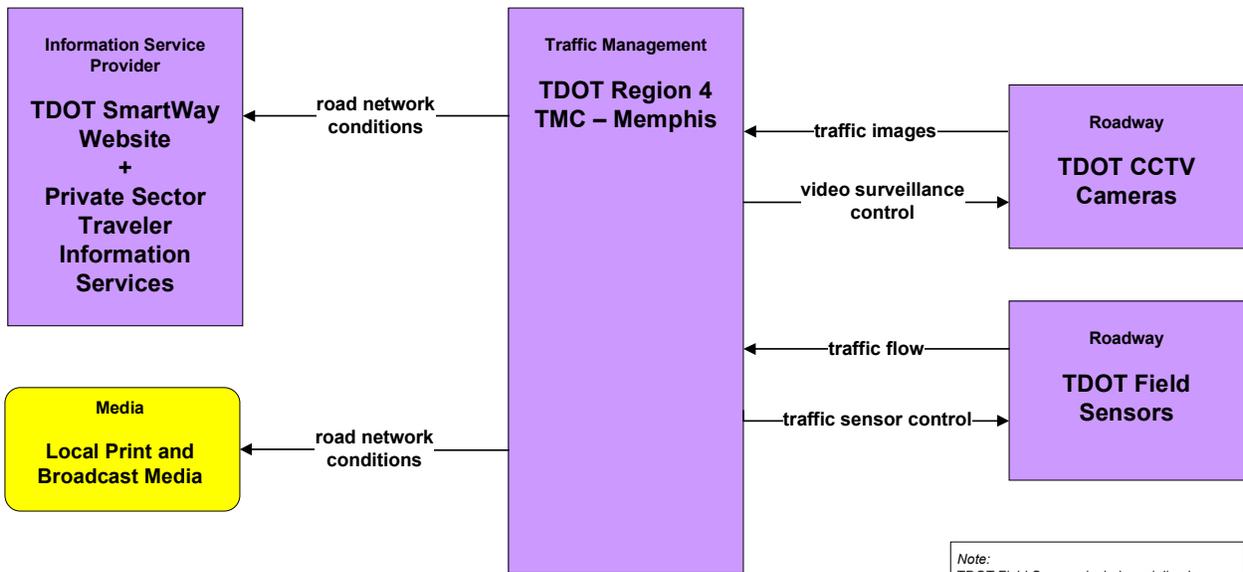
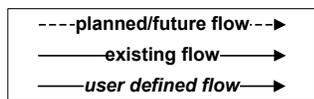


Advanced Traffic Management System

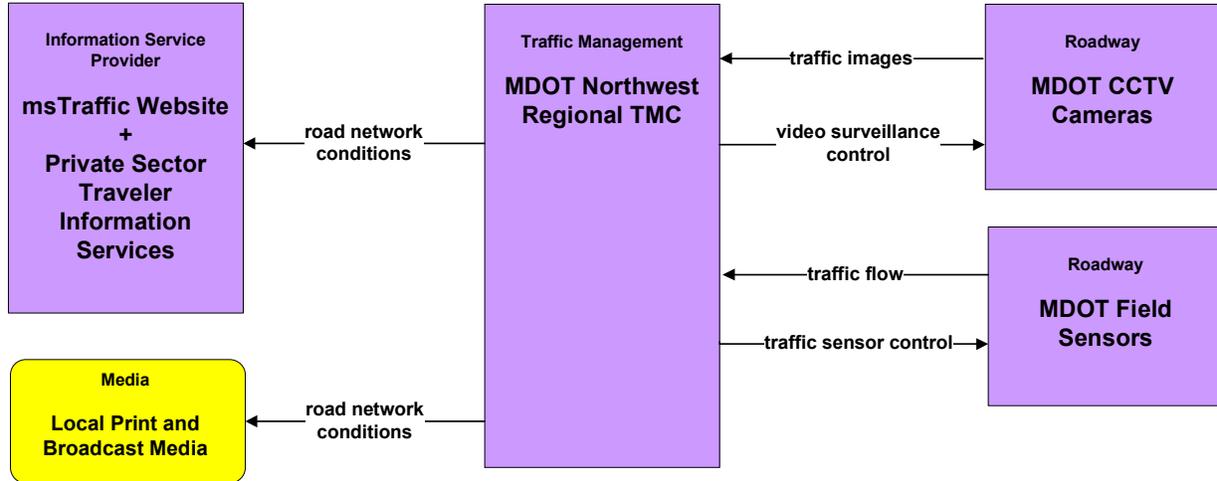
**ATMS01 – Network Surveillance
TDOT Region 4 TMC – Memphis**



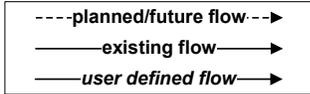
Note:
 TDOT Field Sensors include mainline loops, VIVDS, RTMS, and any other type of vehicle detection.
 Several of the TDOT CCTV Cameras and Field Sensors are located in Arkansas. Though the equipment is primarily operated by TDOT, AHTD has the capability to view the camera feeds. This functionality is documented in ATMS07.



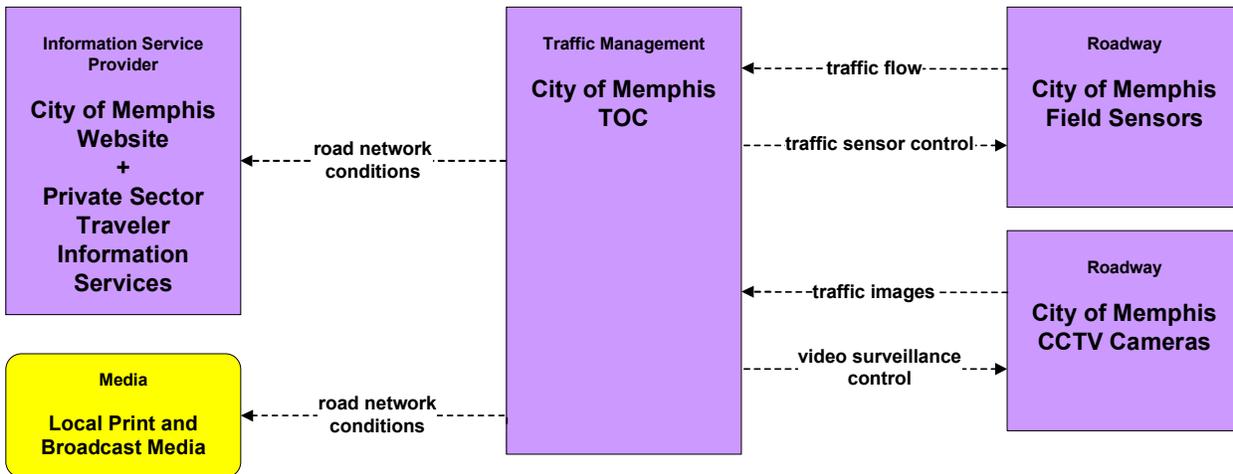
**ATMS01 – Network Surveillance
MDOT Northwest Regional TMC**



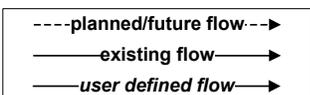
*Note:
The City of Southaven is co-located with MDOT in the Northwest Regional TMC and therefore shares MDOT ITS devices. The City has no plans to deploy and cameras or sensors of their own.*



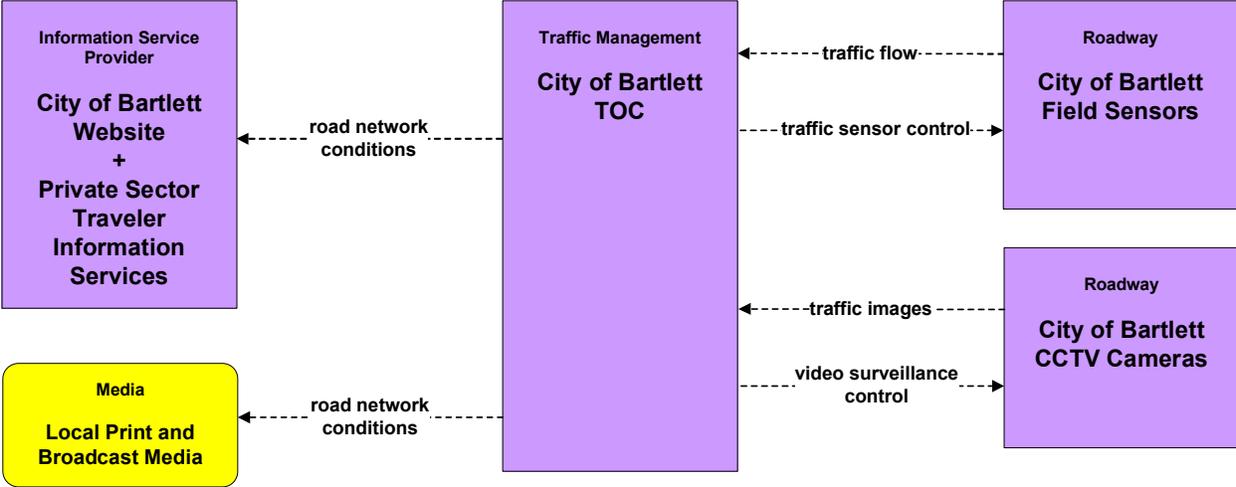
**ATMS01 – Network Surveillance
City of Memphis**



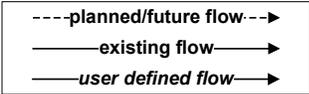
*Note:
City of Memphis Field Sensors include VIVDS and any other type of vehicle detection.*



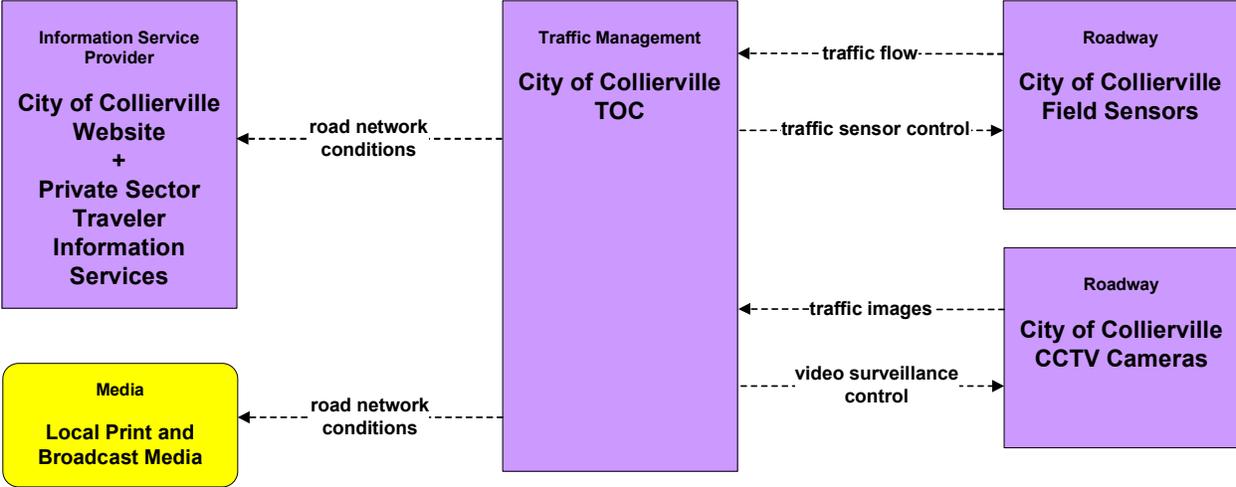
**ATMS01 – Network Surveillance
City of Bartlett TOC**



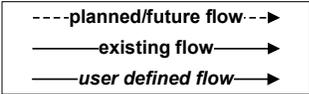
*Note:
Field Sensors include VIVDS and any other type of vehicle detection.*



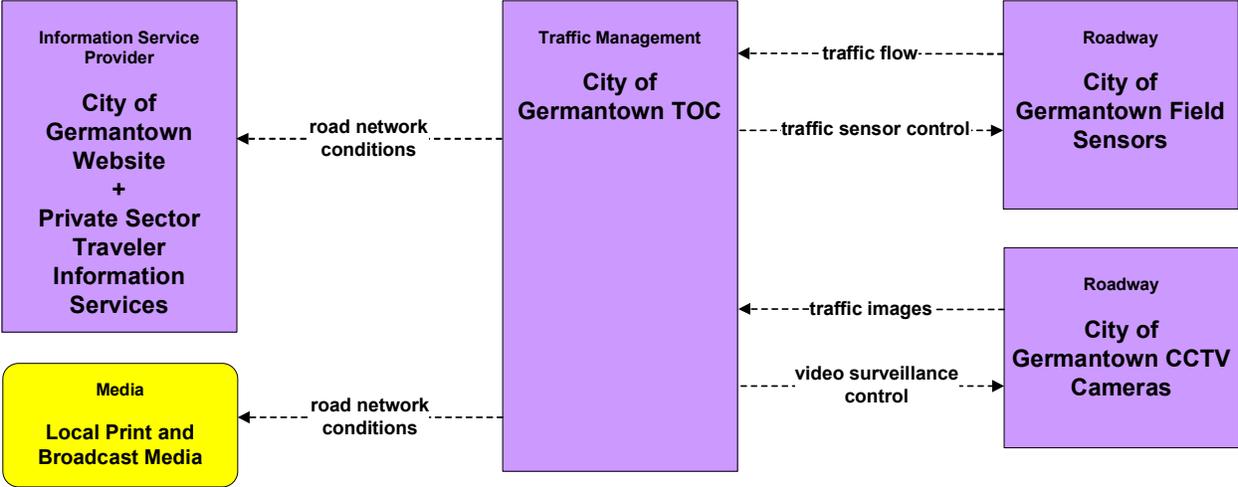
**ATMS01 – Network Surveillance
City of Collierville TOC**



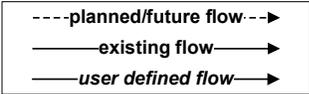
*Note:
Field Sensors include VIVDS and any other type of vehicle detection.*



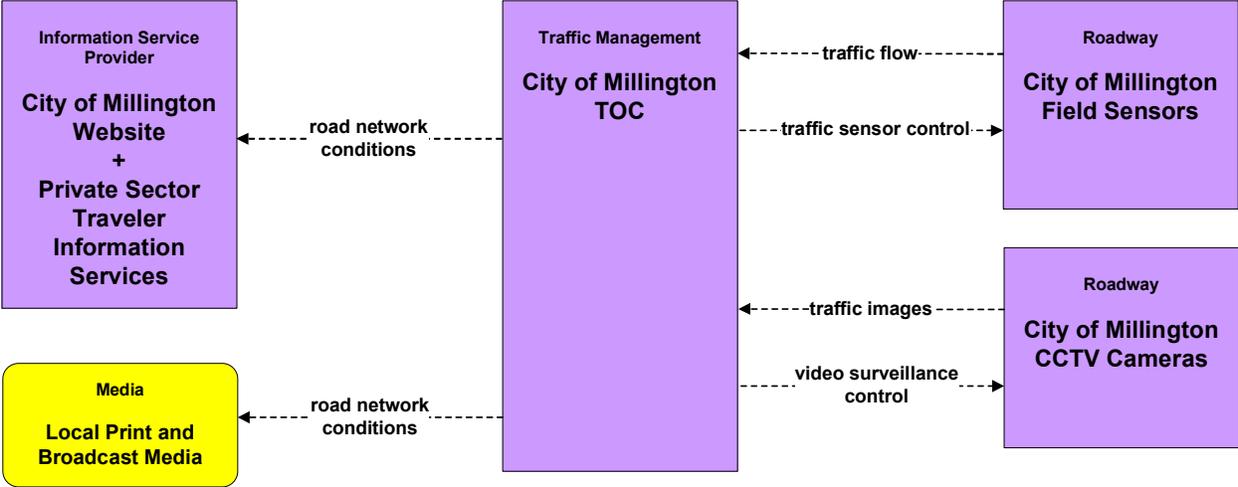
**ATMS01 – Network Surveillance
City of Germantown TOC**



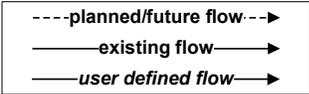
*Note:
Field Sensors include VIVDS and any other type
of vehicle detection.*



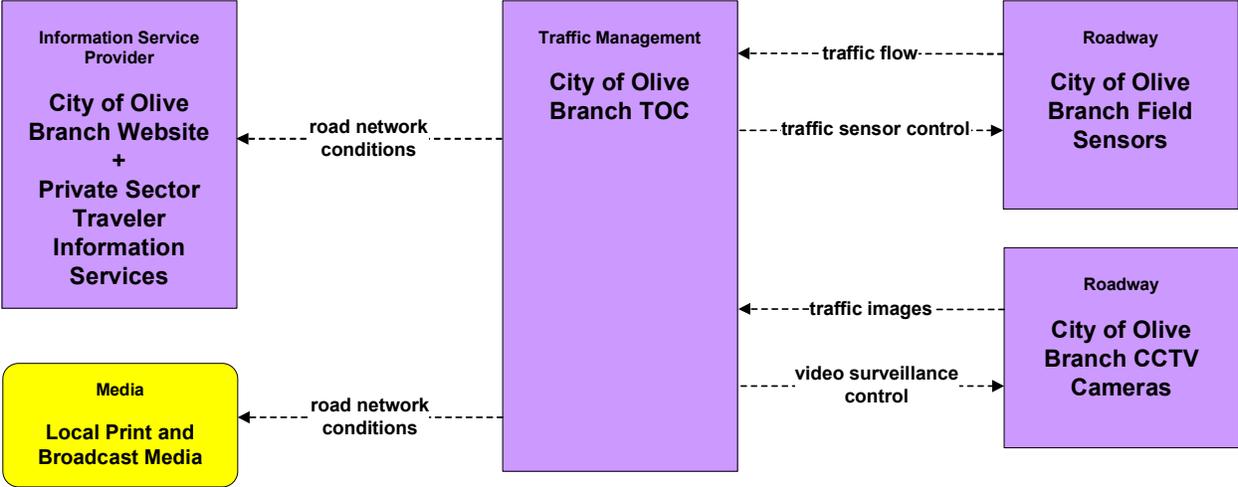
**ATMS01 – Network Surveillance
City of Millington TOC**



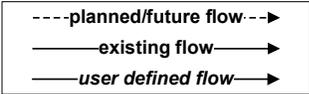
*Note:
Field Sensors include VIVDS and any other type
of vehicle detection.*



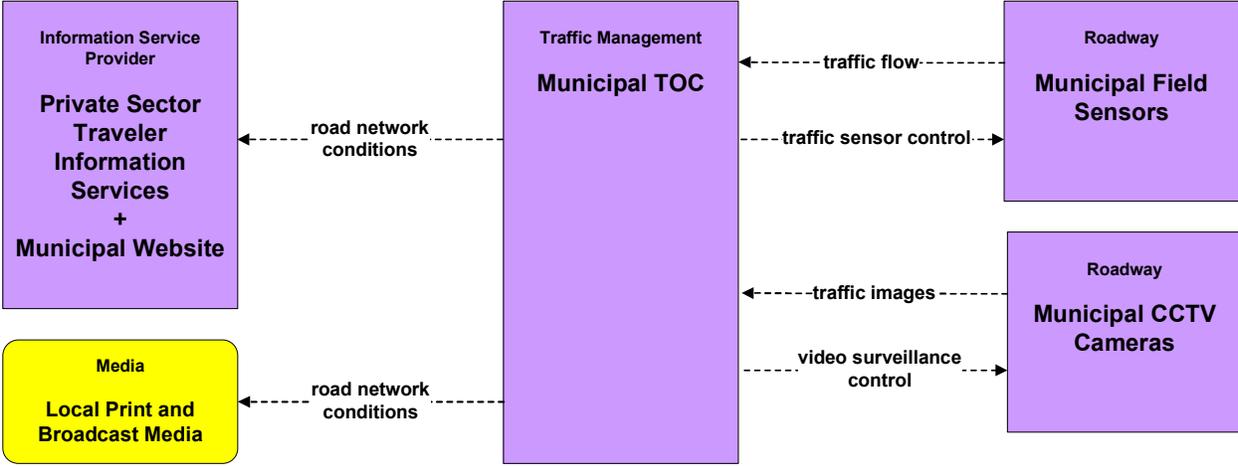
**ATMS01 – Network Surveillance
City of Olive Branch TOC**



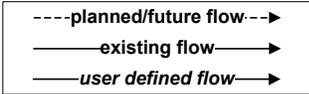
*Note:
Field Sensors include VIVDS and any other type of vehicle detection.*



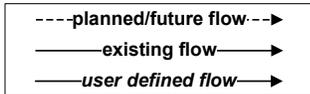
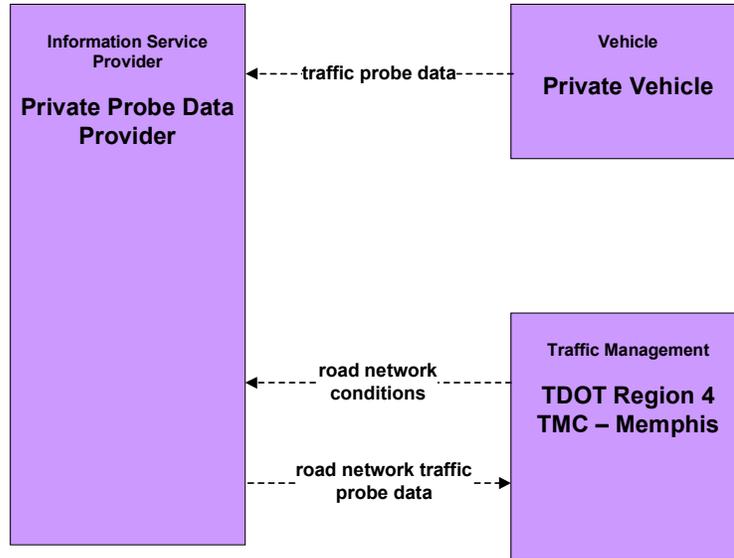
**ATMS01 – Network Surveillance
Municipal TOC**



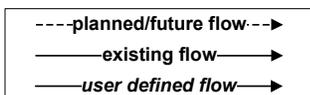
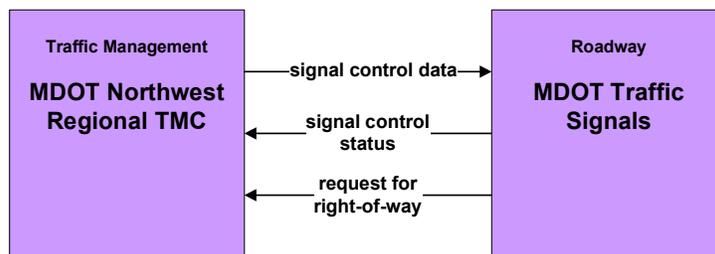
*Note:
Municipal Field Sensors include VIVDS and any other type of vehicle detection.*



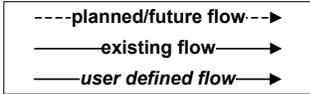
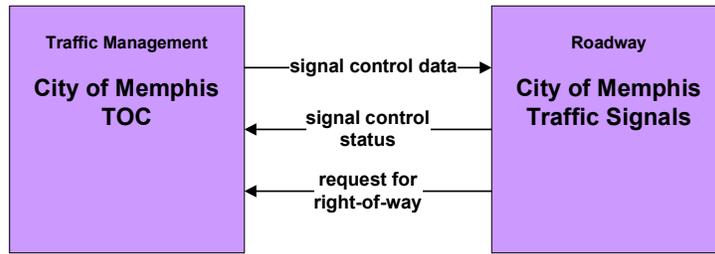
**ATMS02 – Traffic Probe Surveillance
TDOT**



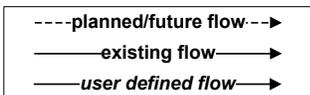
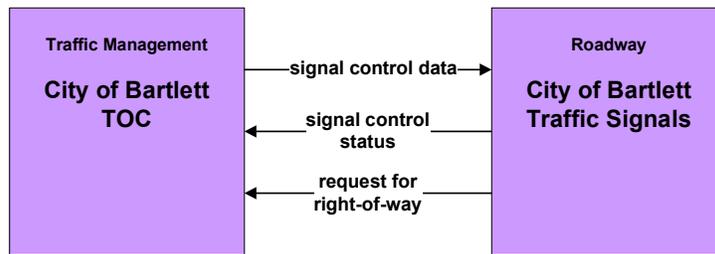
**ATMS03 – Surface Street Control
MDOT**



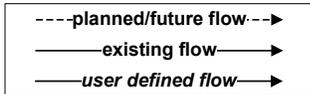
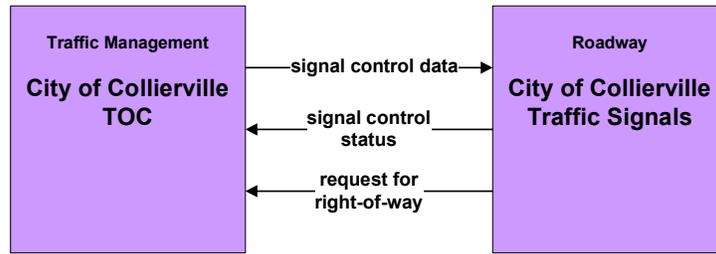
**ATMS03 – Surface Street Control
City of Memphis**



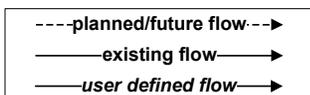
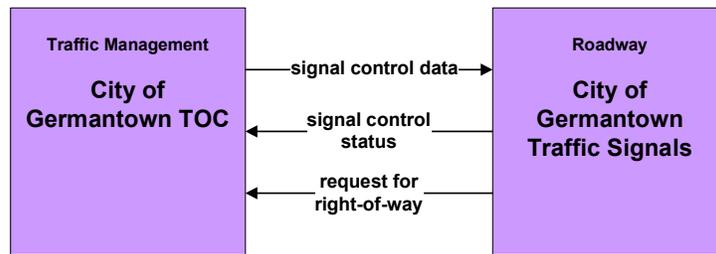
**ATMS03 – Surface Street Control
City of Bartlett**



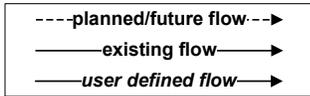
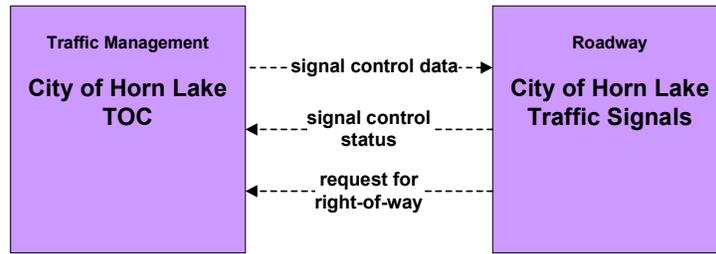
ATMS03 – Surface Street Control
City of Collierville



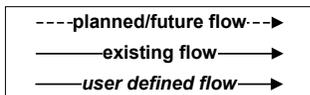
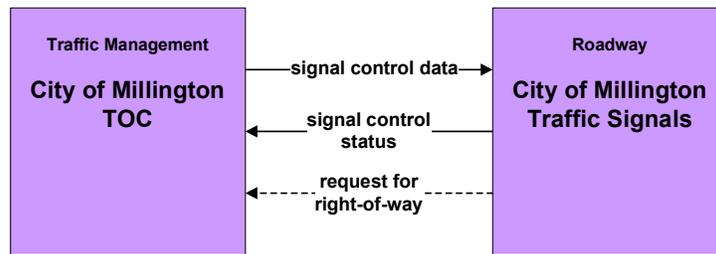
ATMS03 – Surface Street Control
City of Germantown



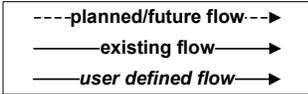
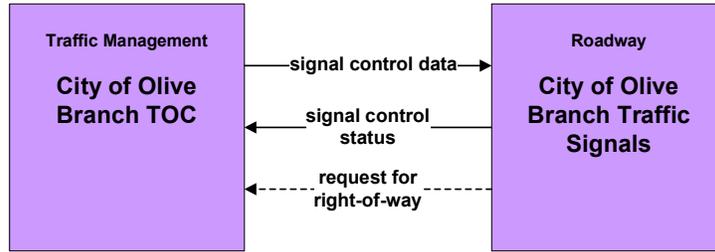
ATMS03 – Surface Street Control
City of Horn Lake



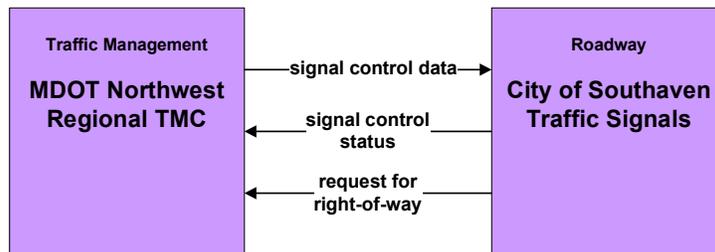
ATMS03 – Surface Street Control
City of Millington



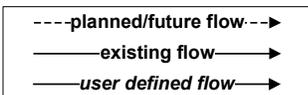
**ATMS03 – Surface Street Control
City of Olive Branch**



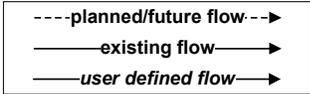
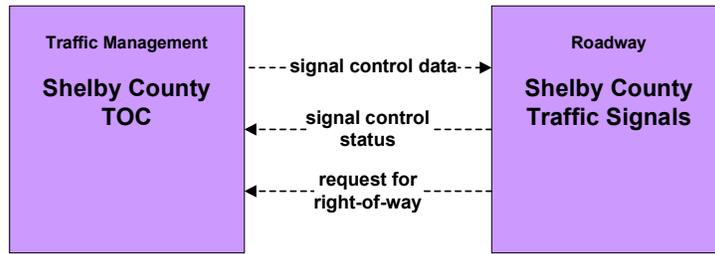
**ATMS03 – Surface Street Control
City of Southaven**



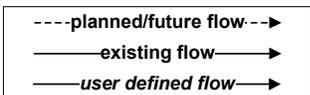
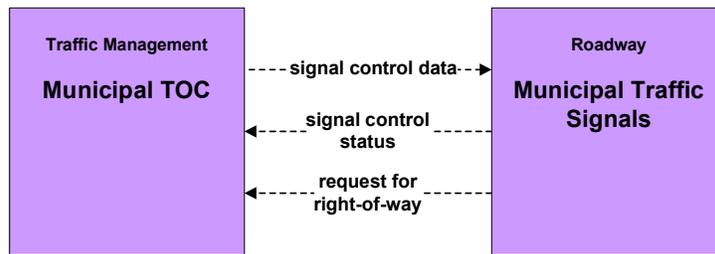
*Note:
The City of Southaven is co-located with and controls their traffic signals from the MDOT Northwest Regional TMC.*



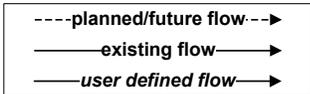
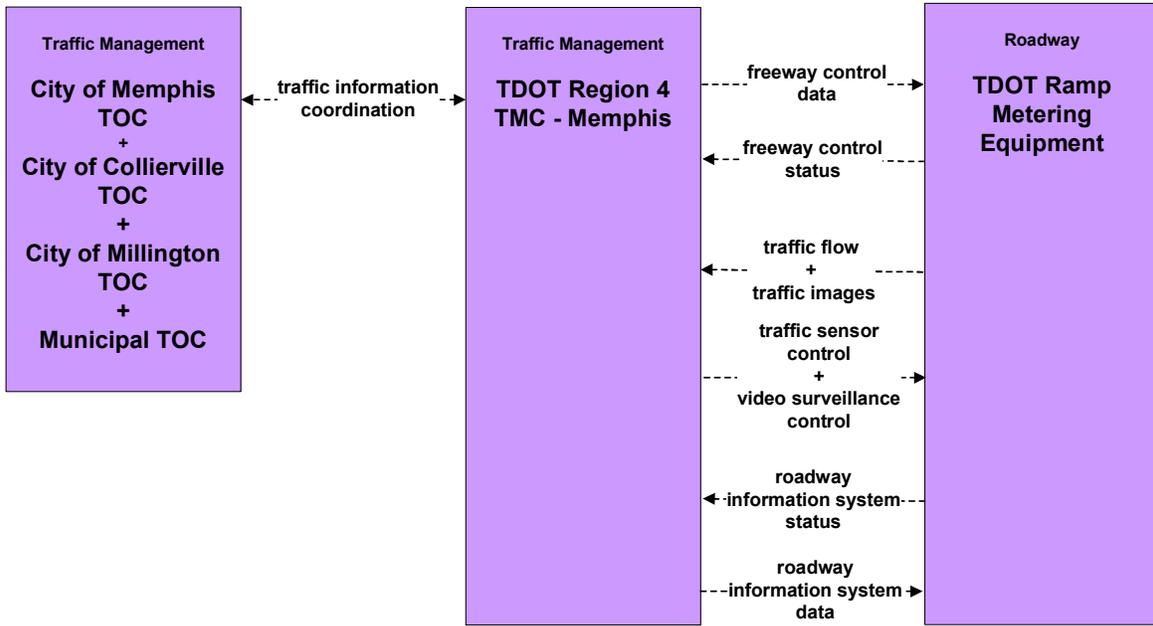
**ATMS03 – Surface Street Control
Shelby County**



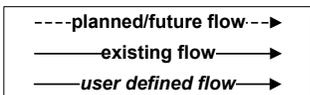
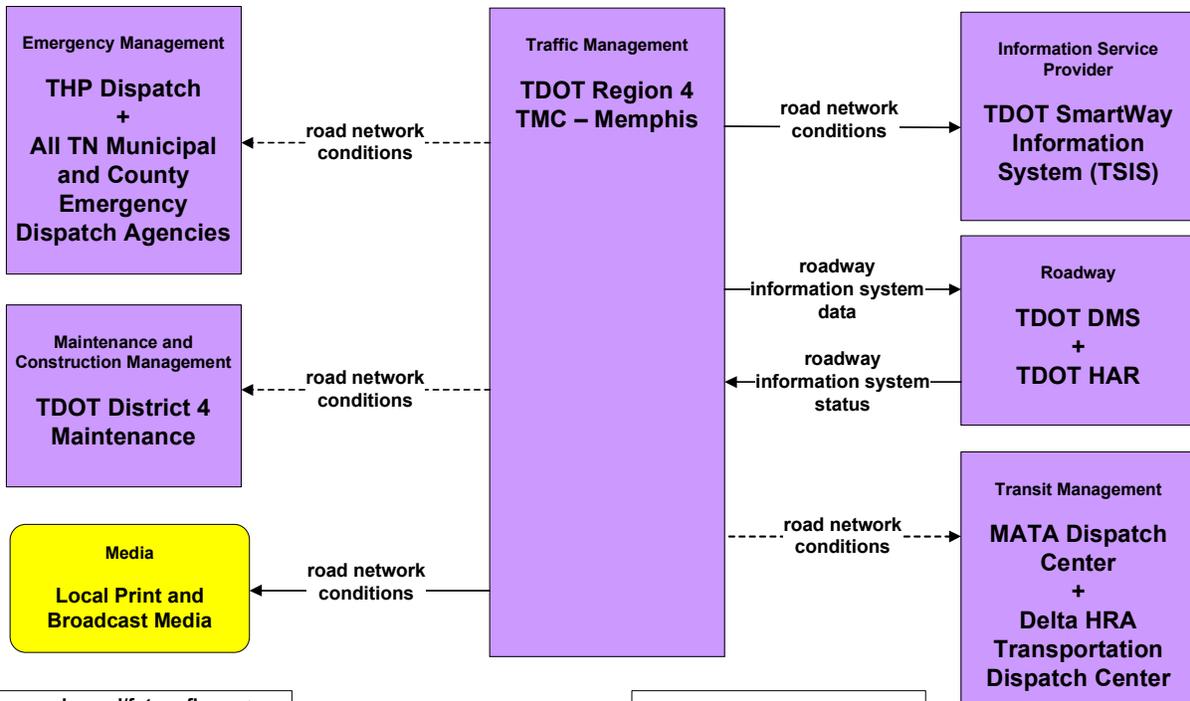
**ATMS03 – Surface Street Control
Municipal**



**ATMS04 – Freeway Control
 TDOT Region 4 TMC – Memphis**

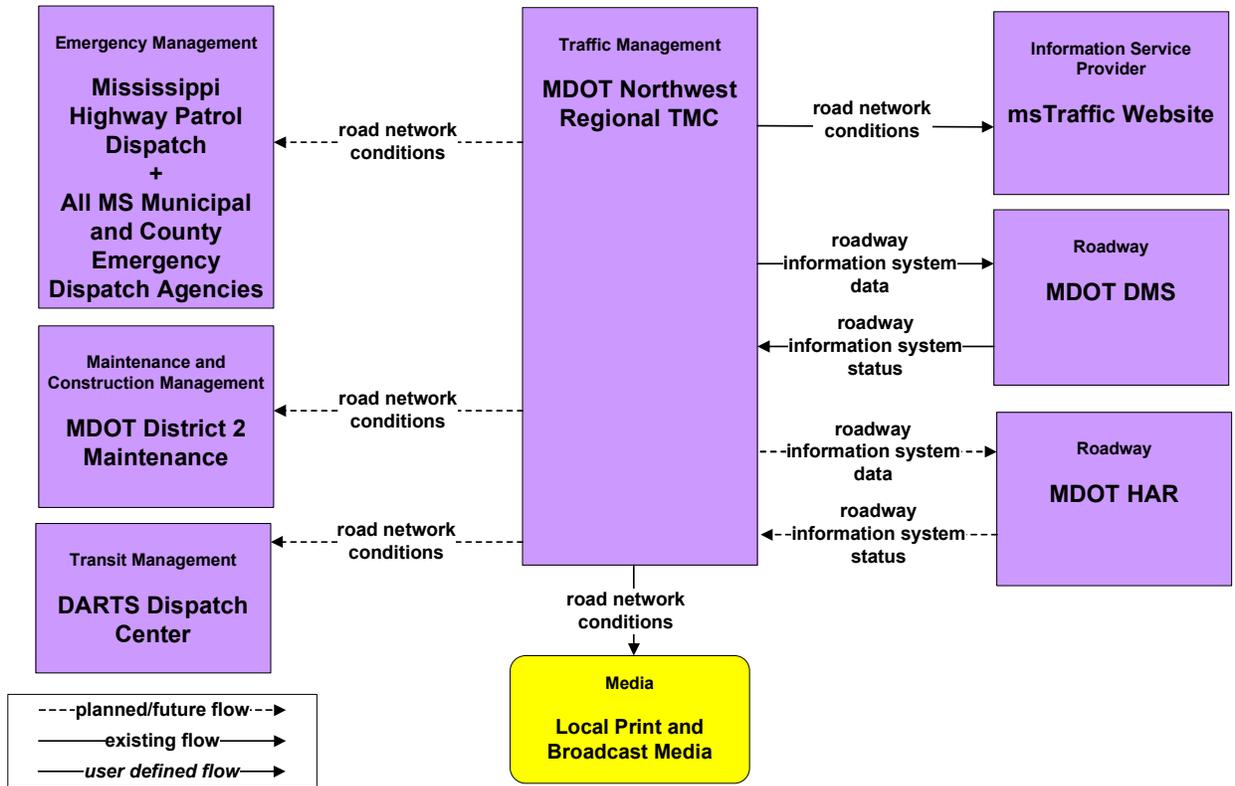


**ATMS06 – Traffic Information Dissemination
 TDOT Region 4 TMC – Memphis**

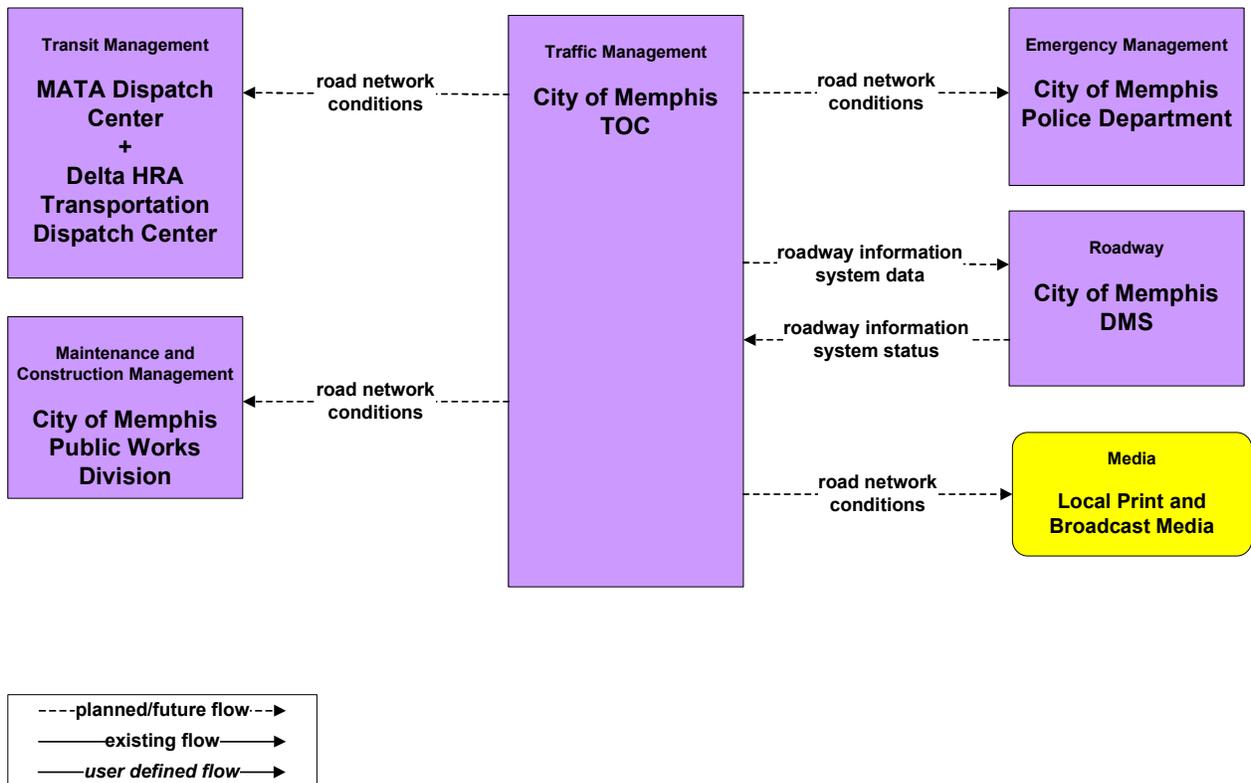


Note:
 Several of the TDOT DMS and HAR are located in Arkansas.

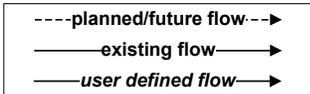
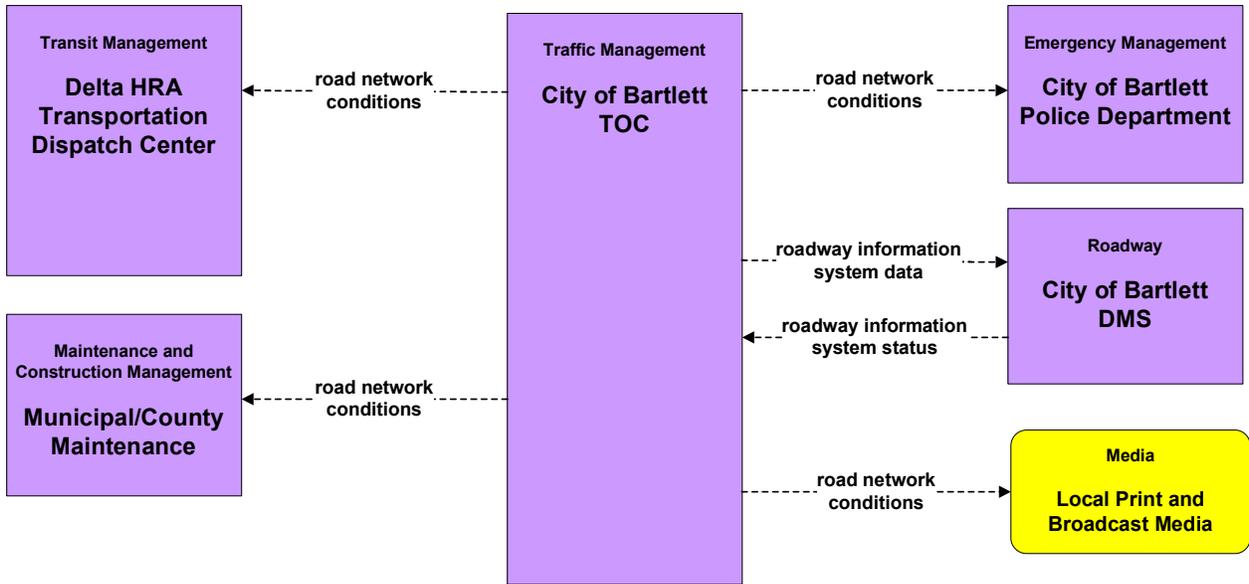
**ATMS06 – Traffic Information Dissemination
MDOT Northwest Regional TMC**



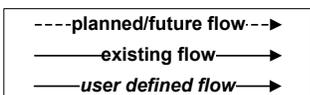
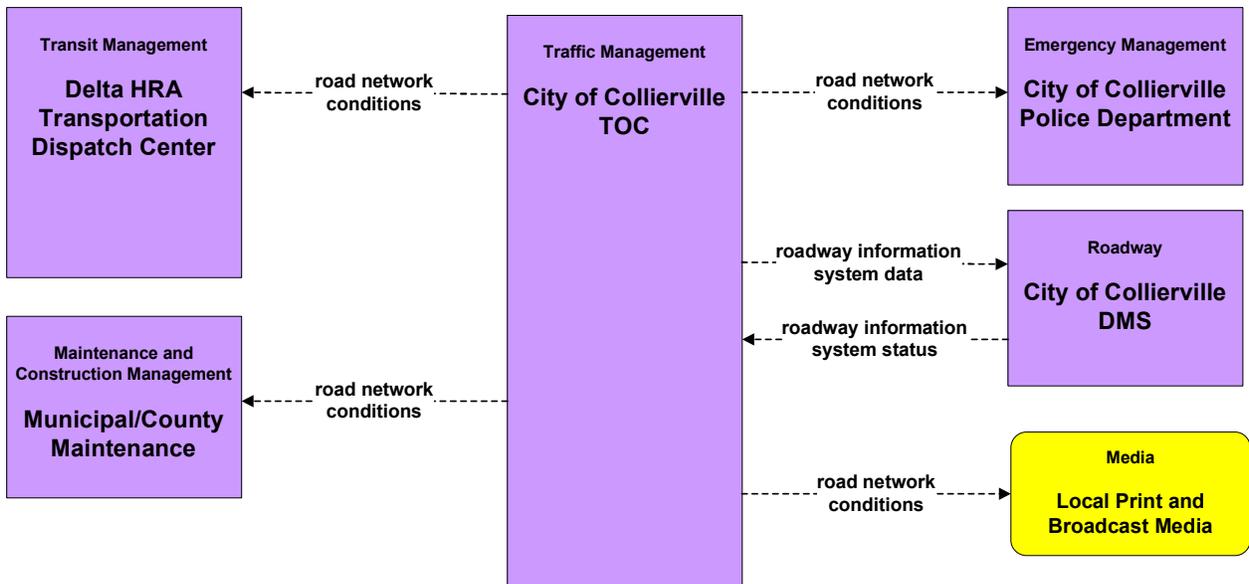
**ATMS06 – Traffic Information Dissemination
City of Memphis**



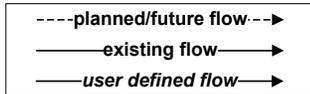
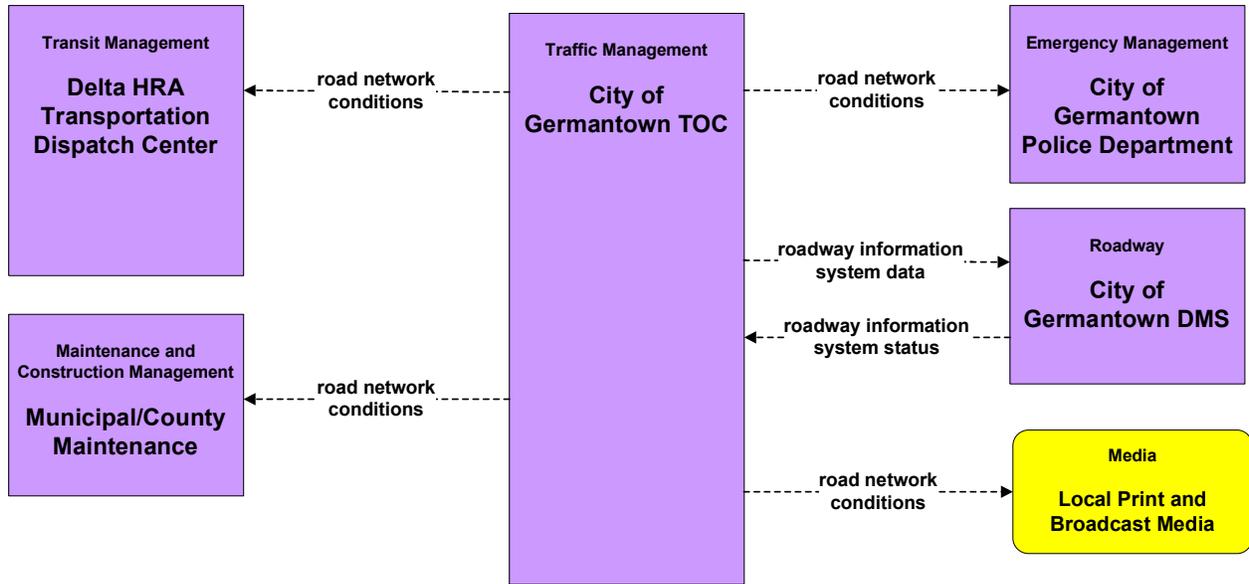
**ATMS06 – Traffic Information Dissemination
City of Bartlett**



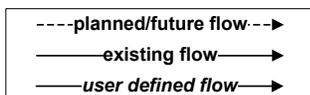
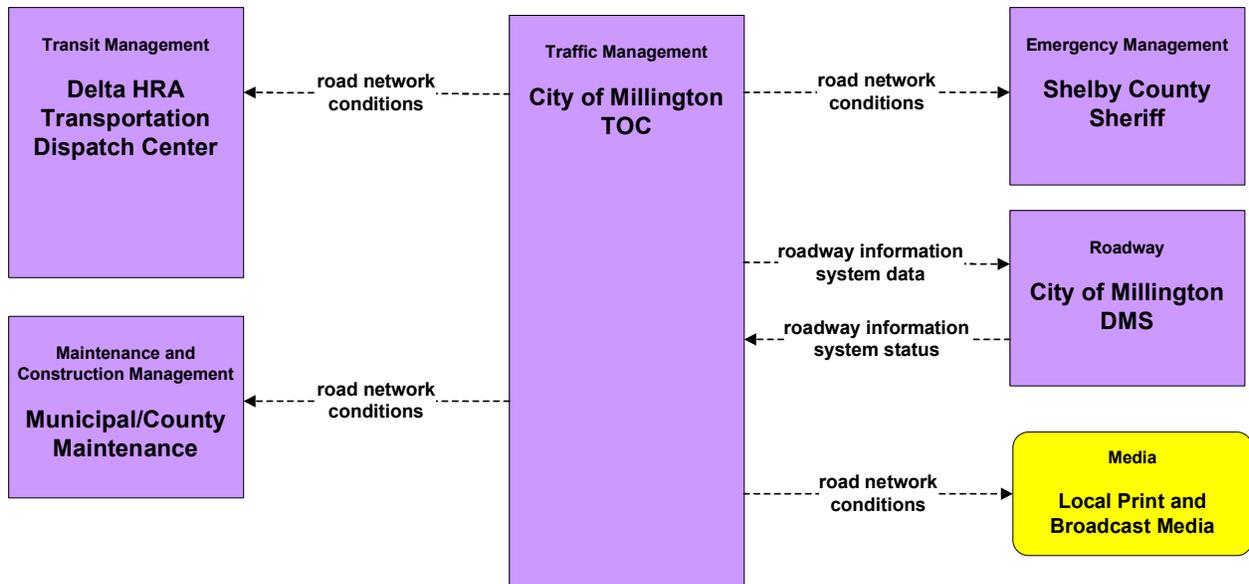
**ATMS06 – Traffic Information Dissemination
City of Collierville**



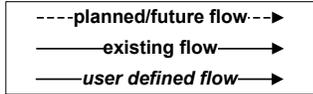
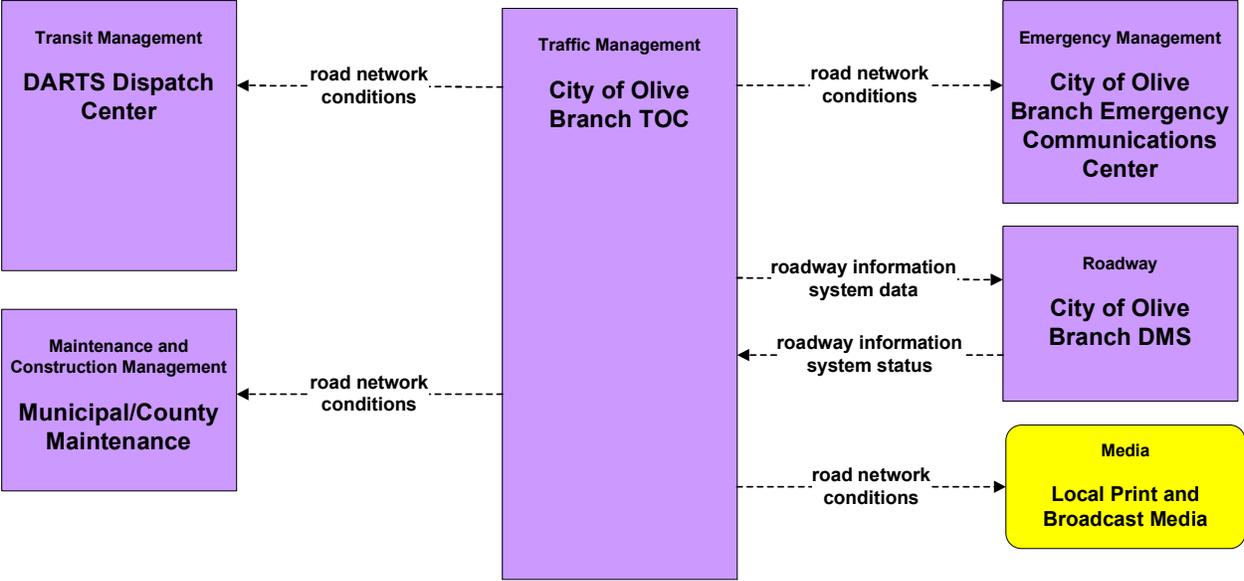
**ATMS06 – Traffic Information Dissemination
City of Germantown**



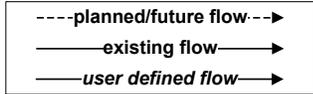
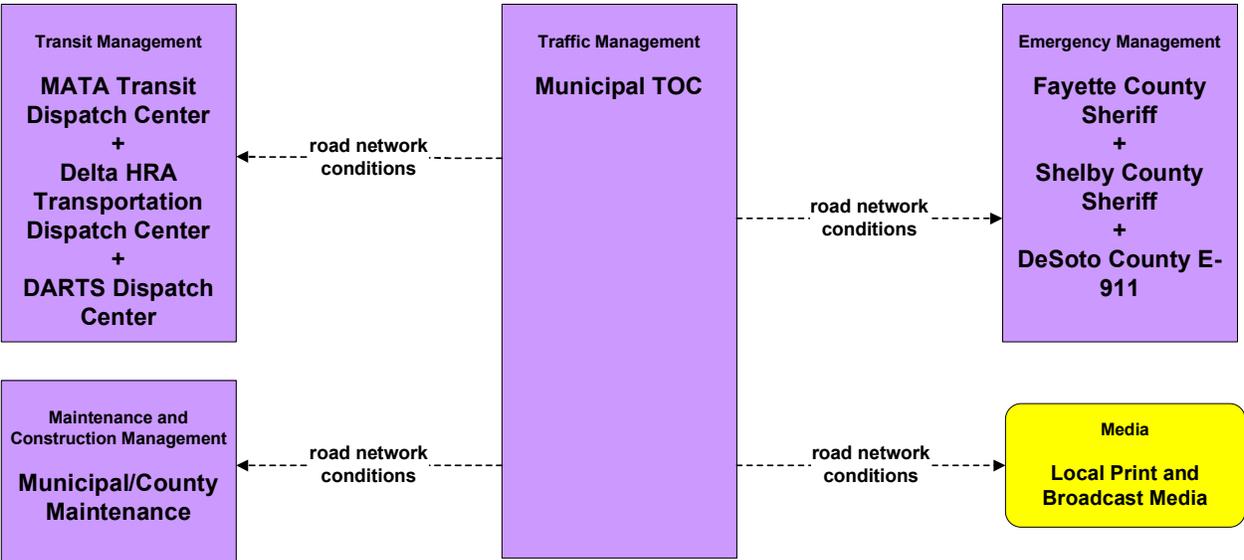
**ATMS06 – Traffic Information Dissemination
City of Millington**



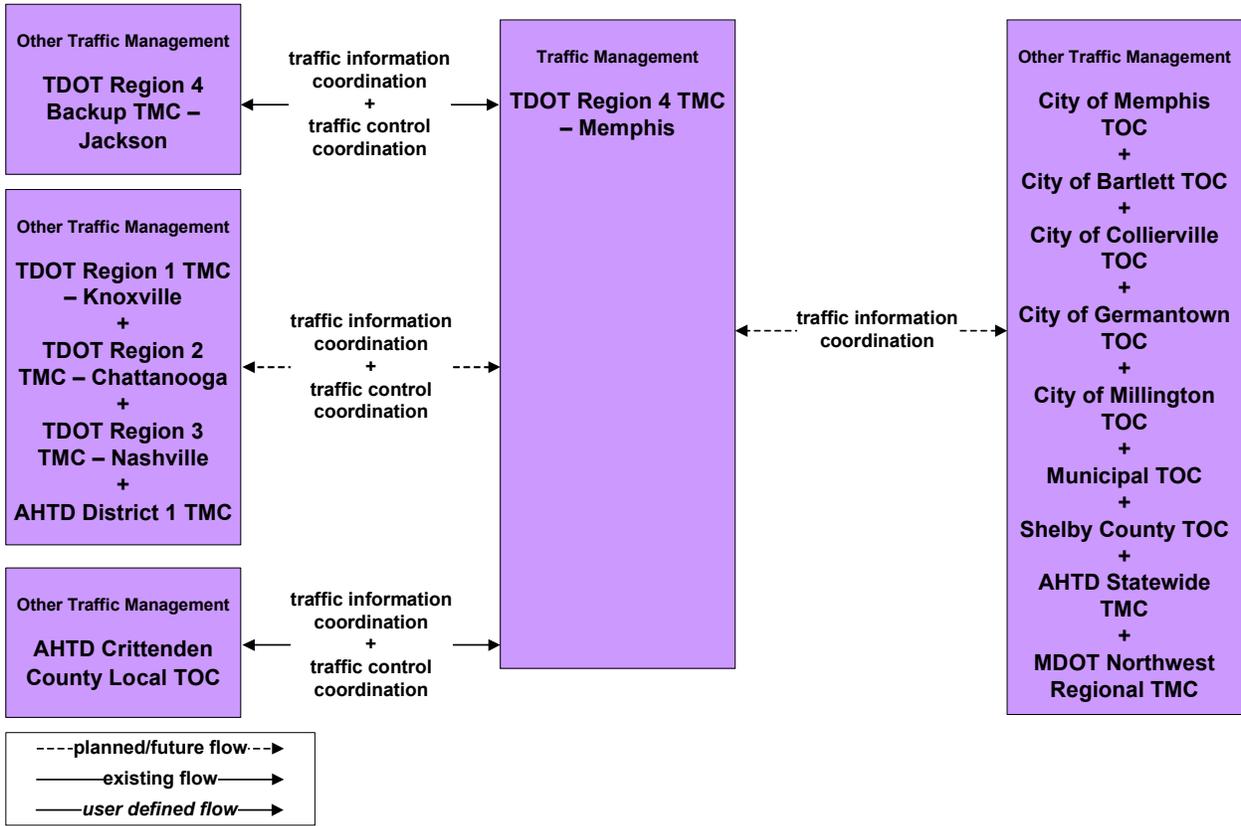
**ATMS06 – Traffic Information Dissemination
City of Olive Branch**



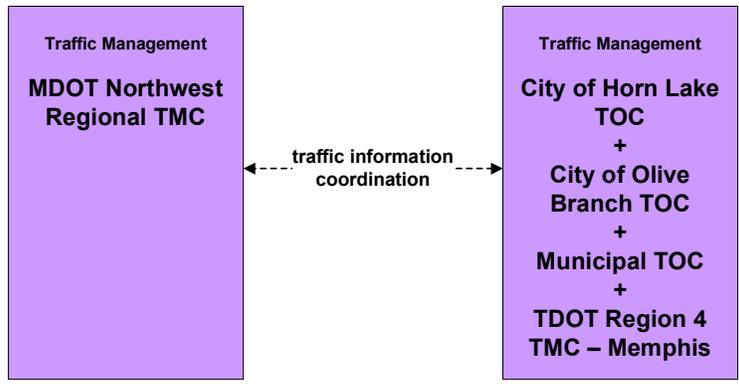
**ATMS06 – Traffic Information Dissemination
Municipal**



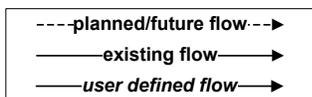
**ATMS07 – Regional Traffic Management
 TDOT Region 4 TMC – Memphis**



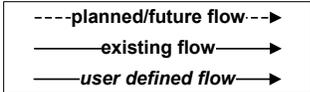
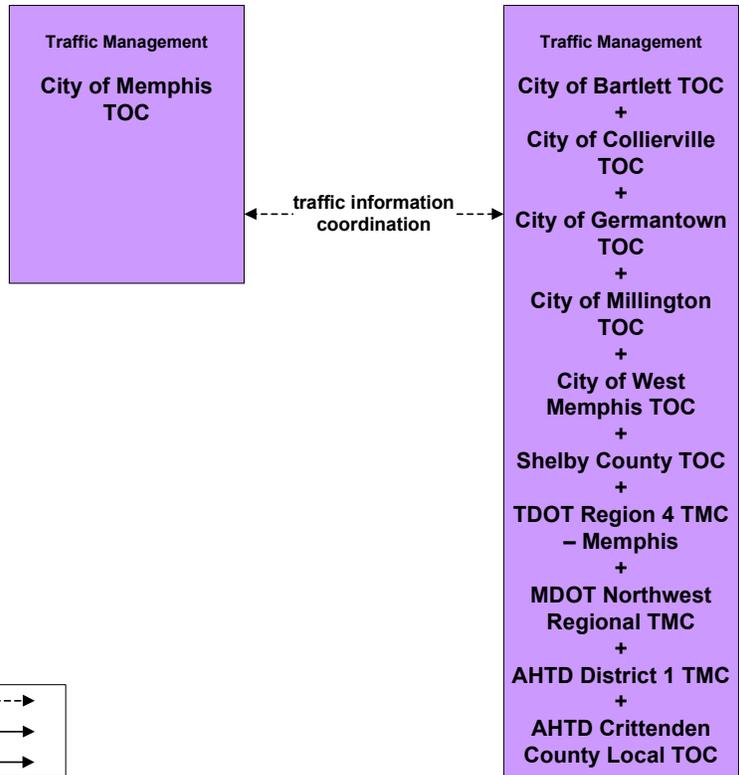
**ATMS07 – Regional Traffic Management
 MDOT Northwest Regional TMC**



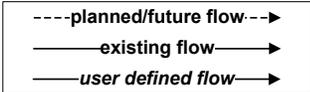
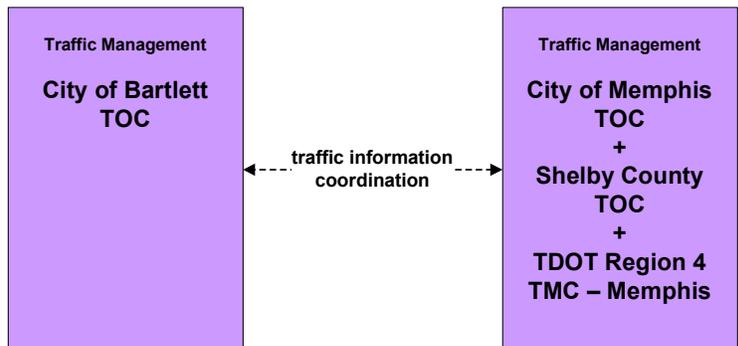
*Note:
 The City of Southaven is co-located with MDOT
 at the Northwest Regional TMC*



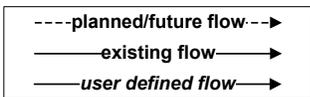
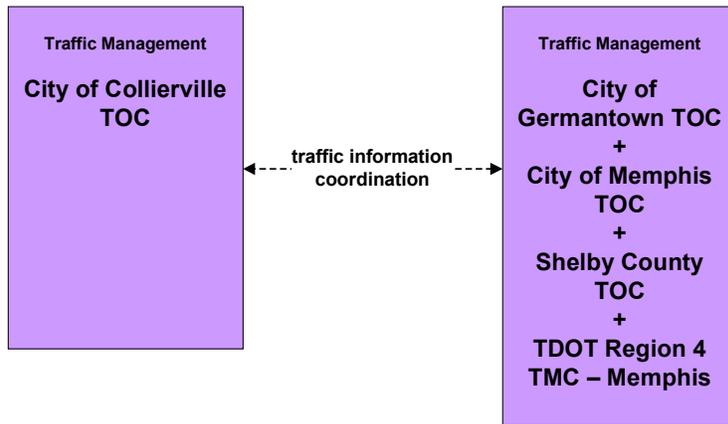
**ATMS07 – Regional Traffic Management
City of Memphis**



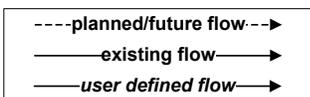
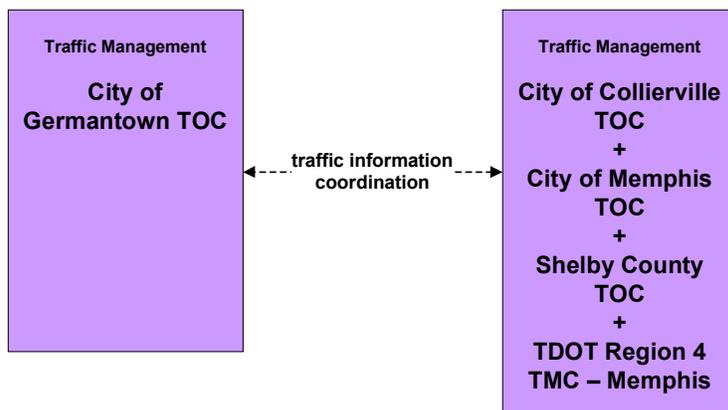
**ATMS07 – Regional Traffic Management
City of Bartlett**



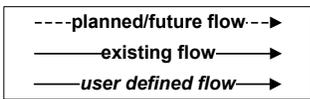
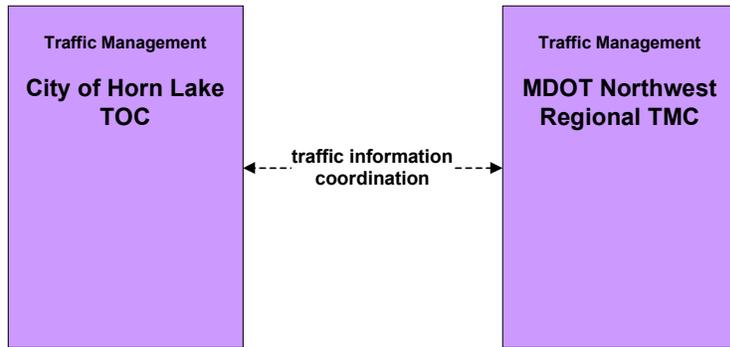
**ATMS07 – Regional Traffic Management
City of Collierville**



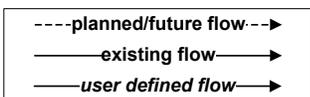
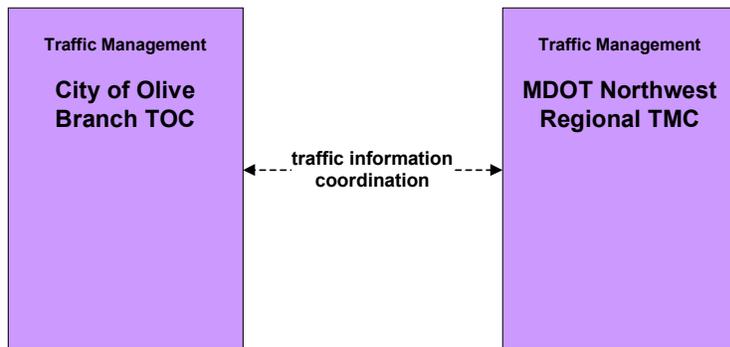
**ATMS07 – Regional Traffic Management
City of Germantown**



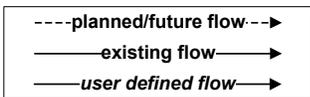
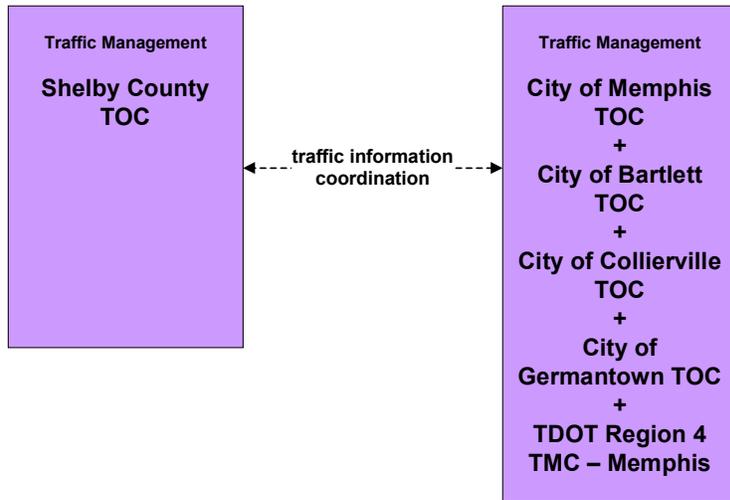
**ATMS07 – Regional Traffic Management
City of Horn Lake**



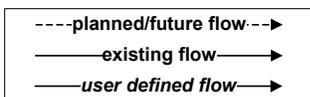
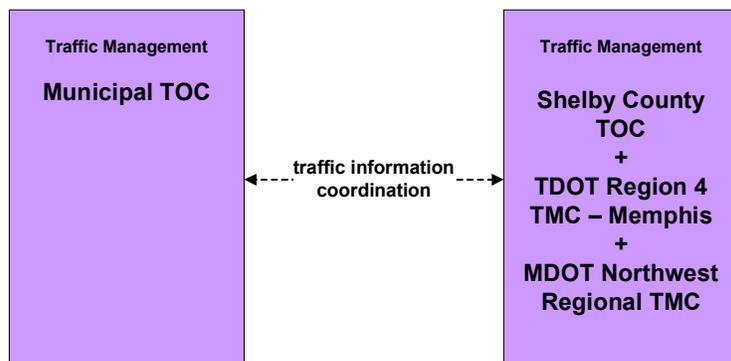
**ATMS07 – Regional Traffic Management
City of Olive Branch**

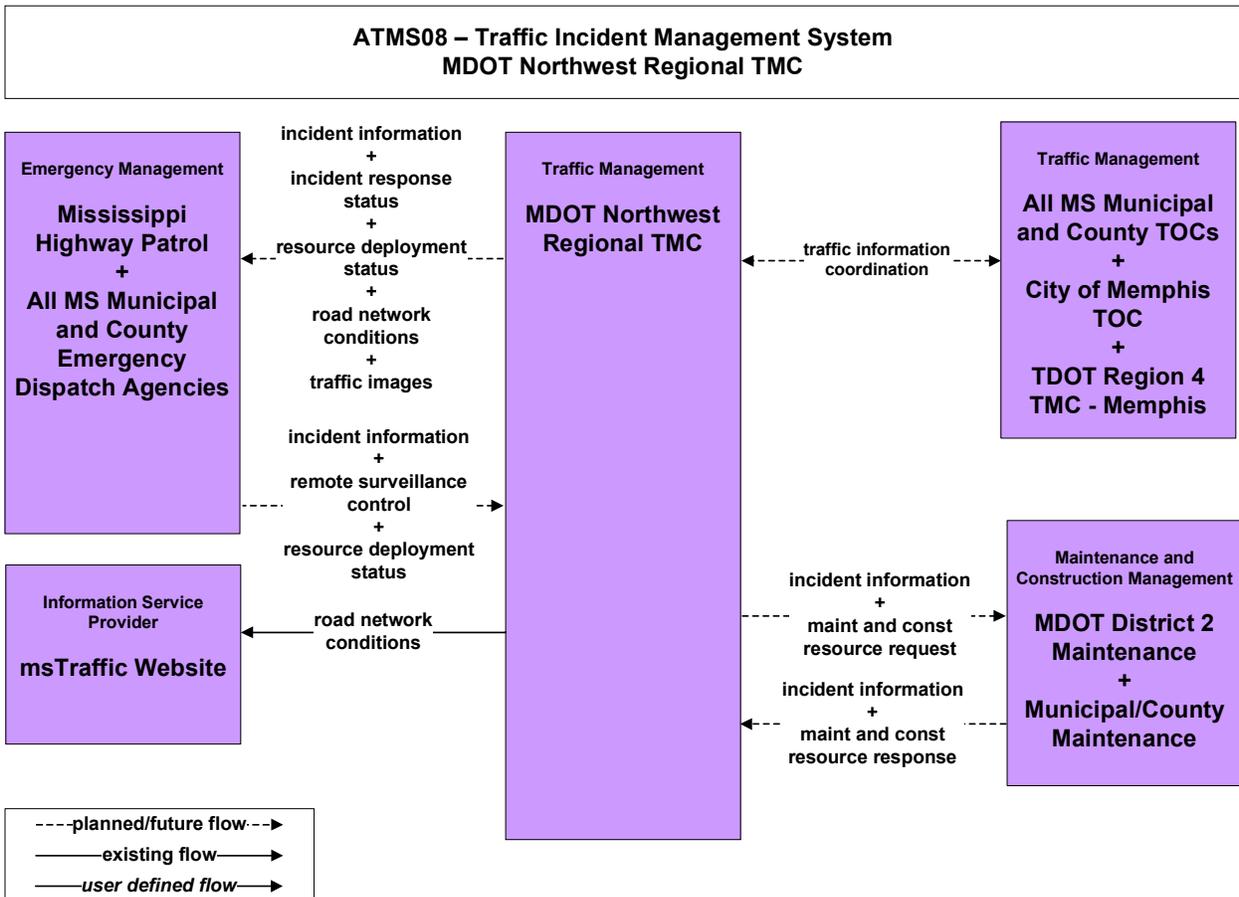
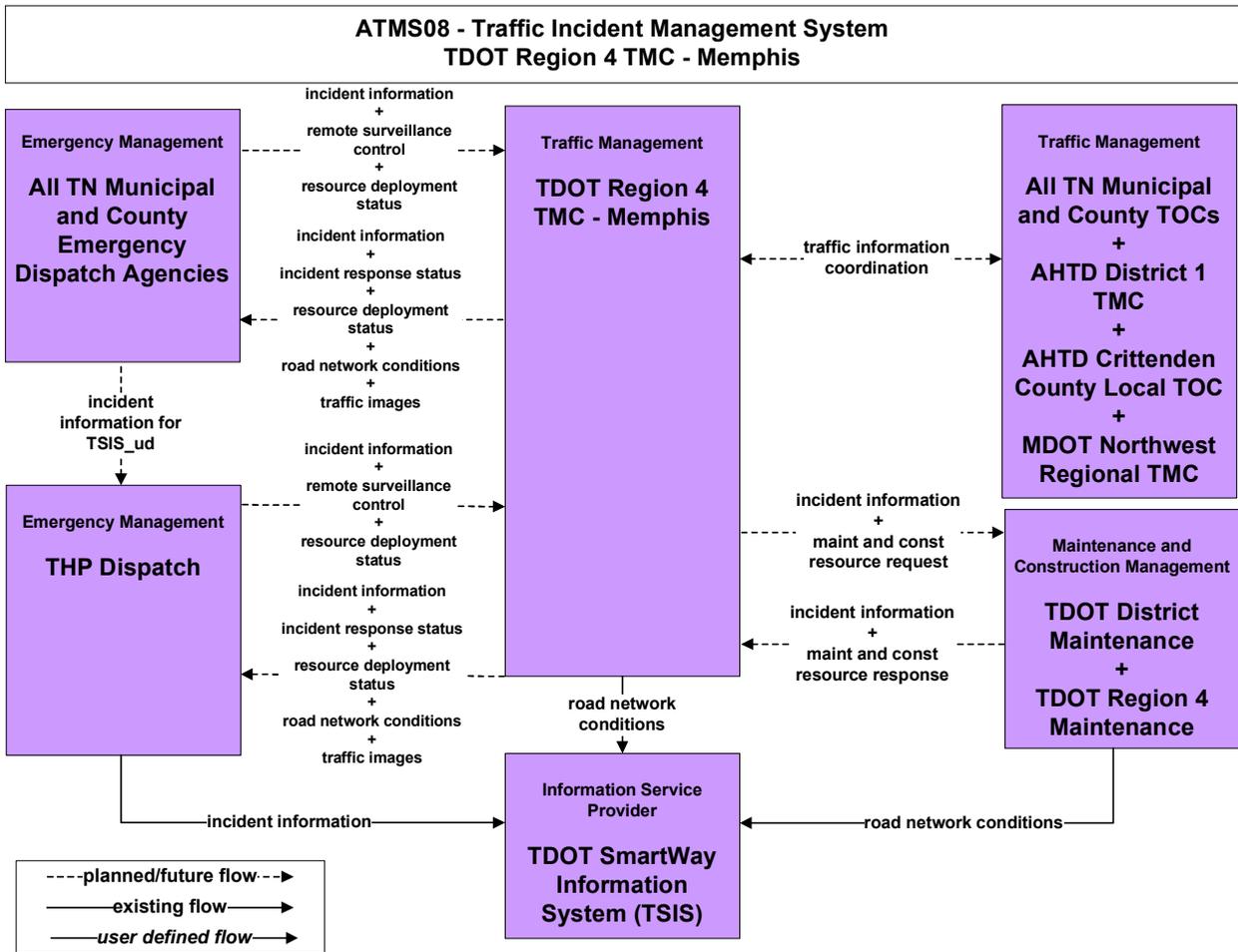


**ATMS07 – Regional Traffic Management
Shelby County**

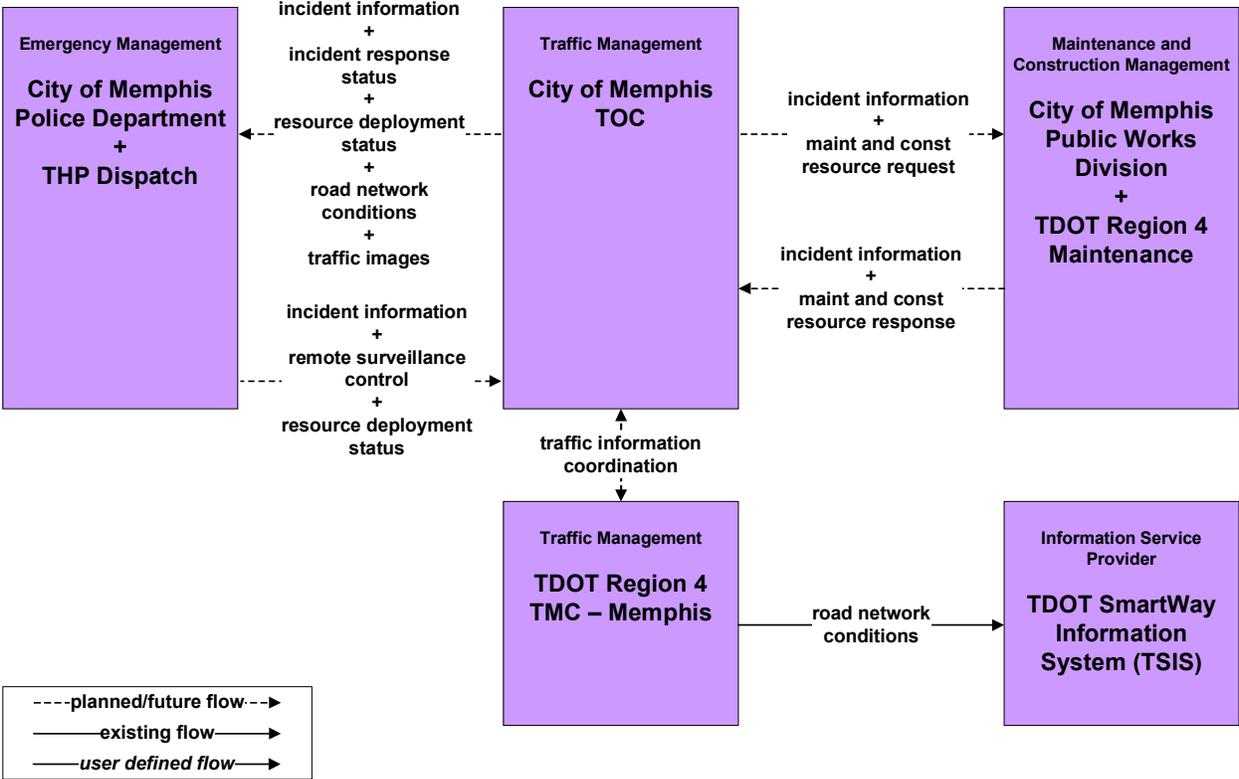


**ATMS07 – Regional Traffic Management
Municipal**

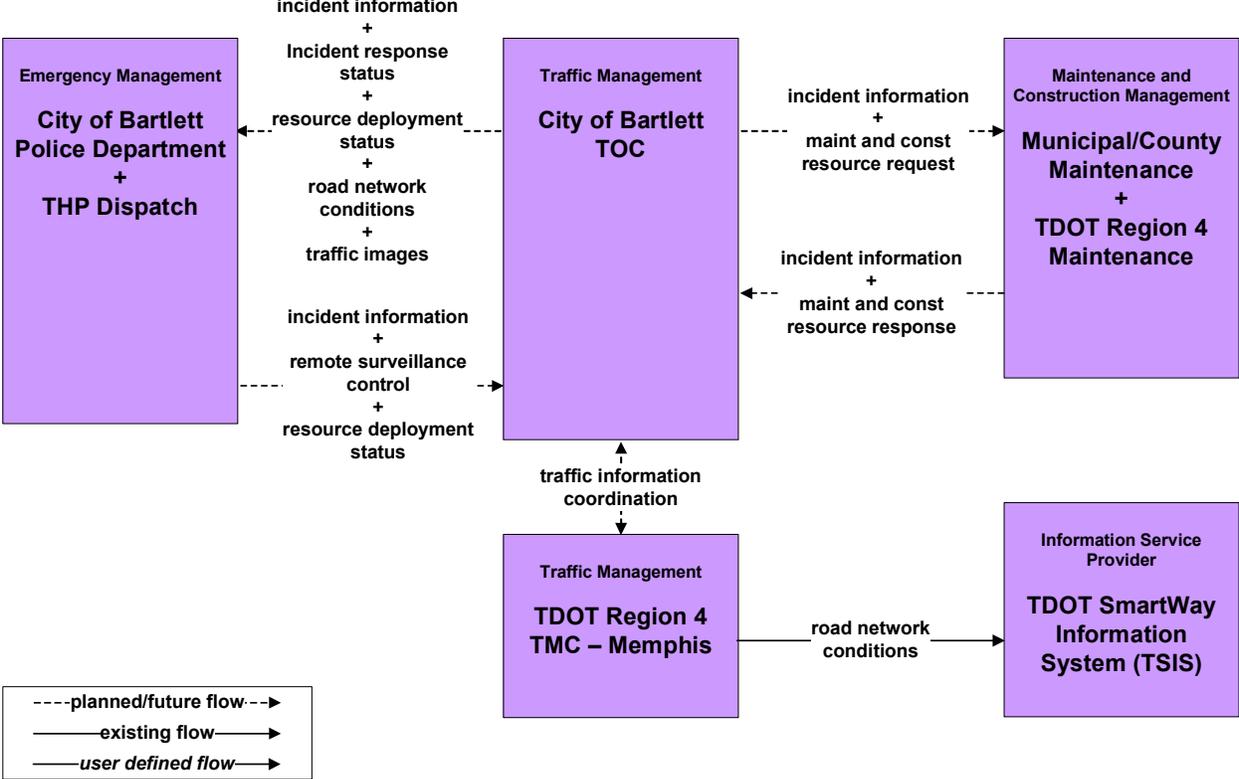




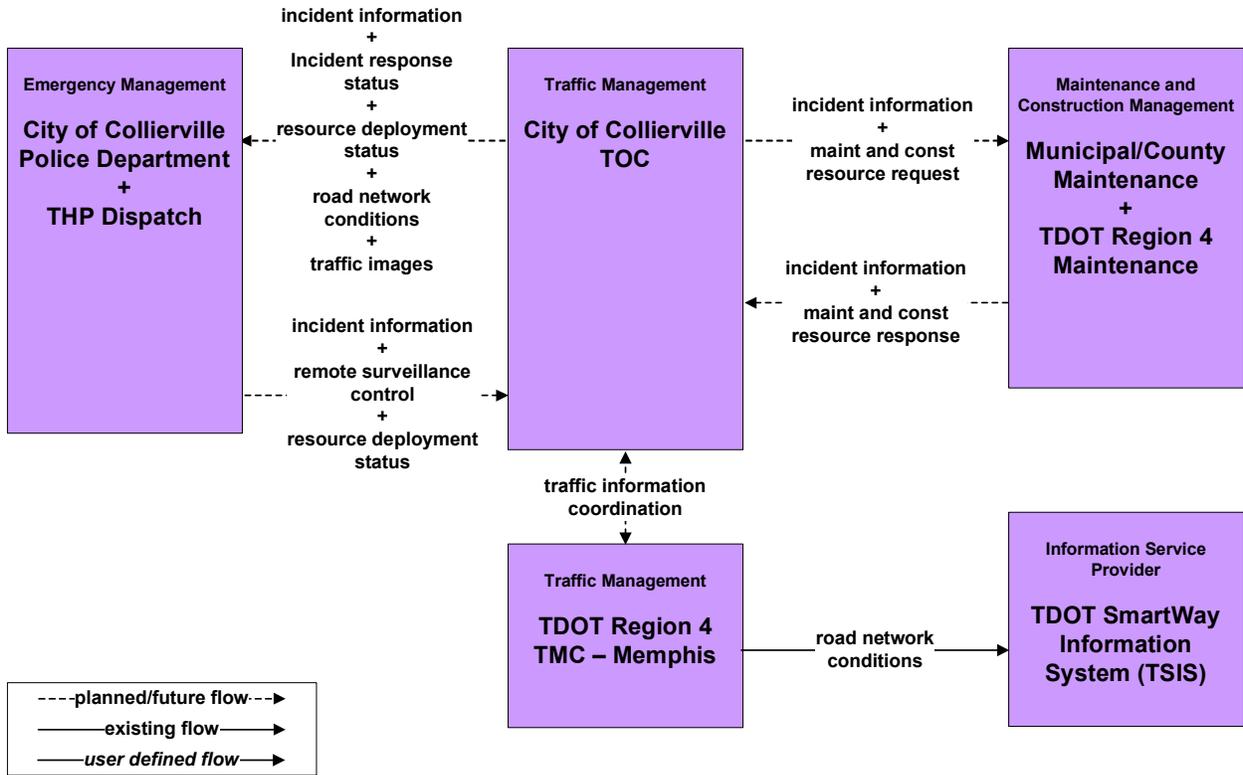
**ATMS08 – Traffic Incident Management System
City of Memphis**



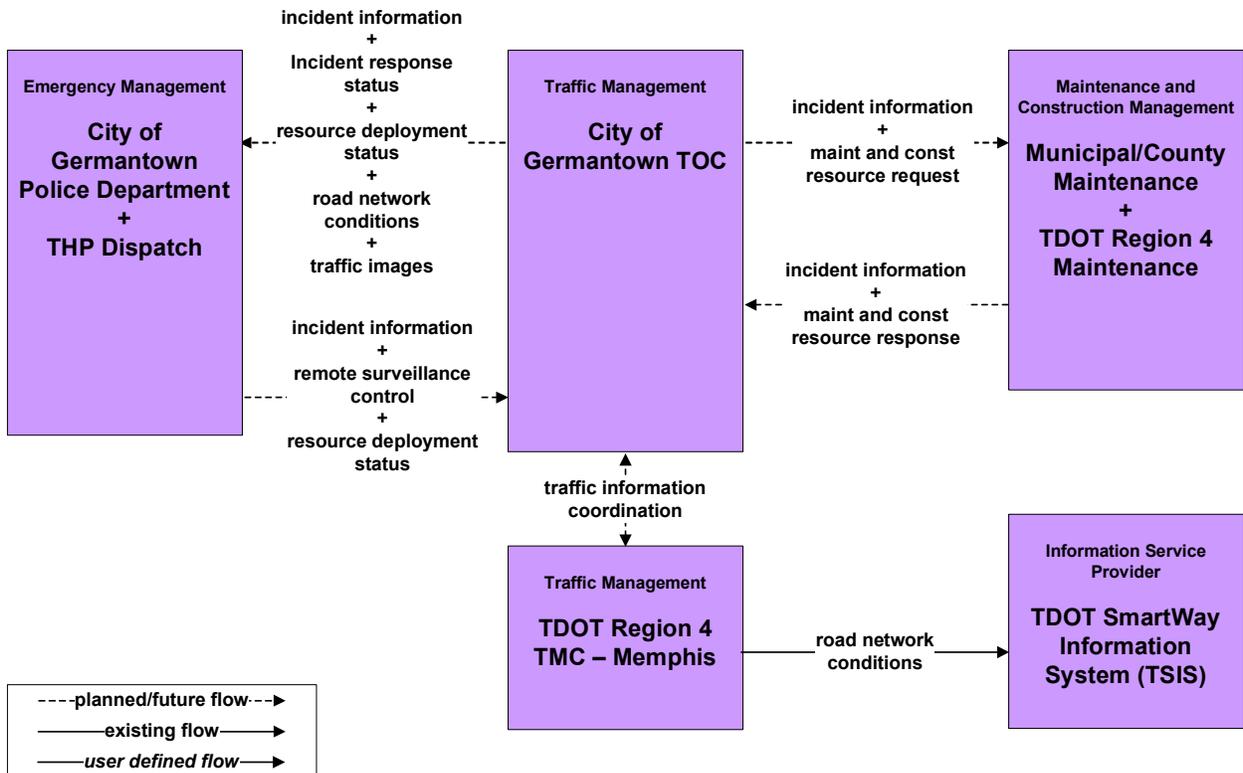
**ATMS08 – Traffic Incident Management System
City of Bartlett**



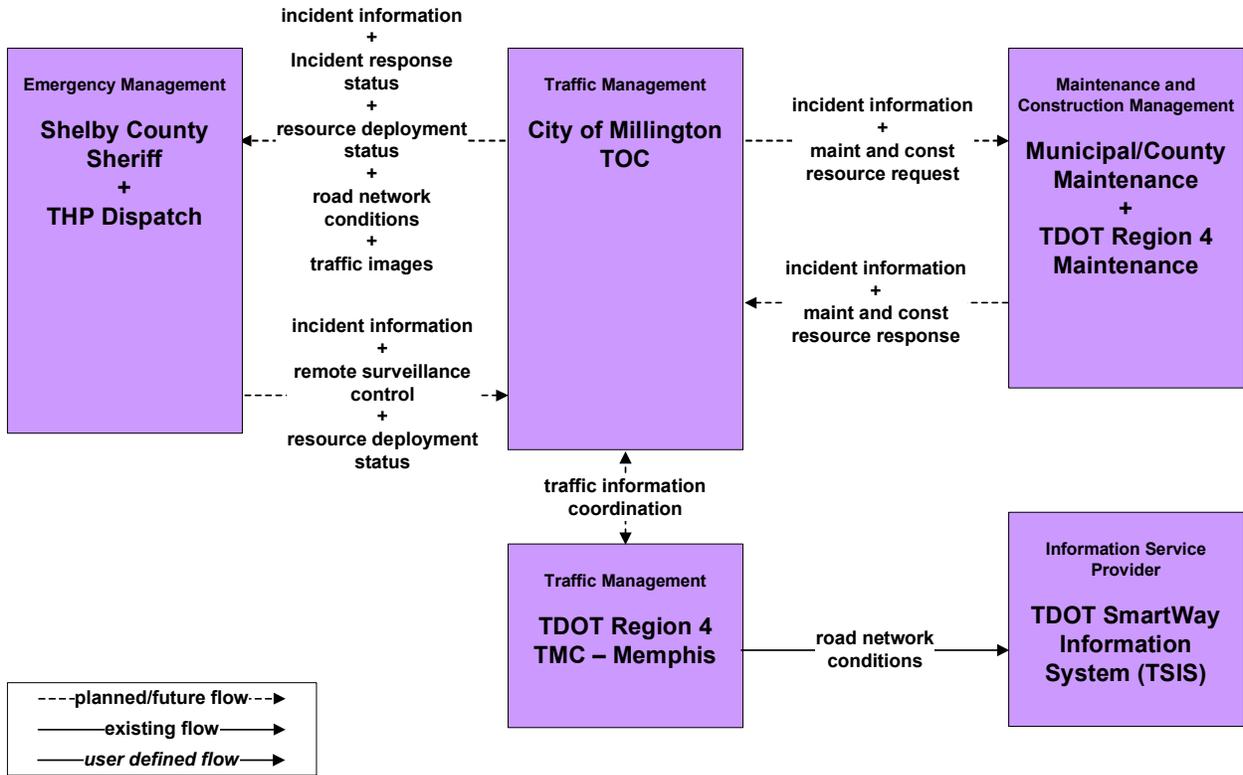
**ATMS08 – Traffic Incident Management System
City of Collierville**



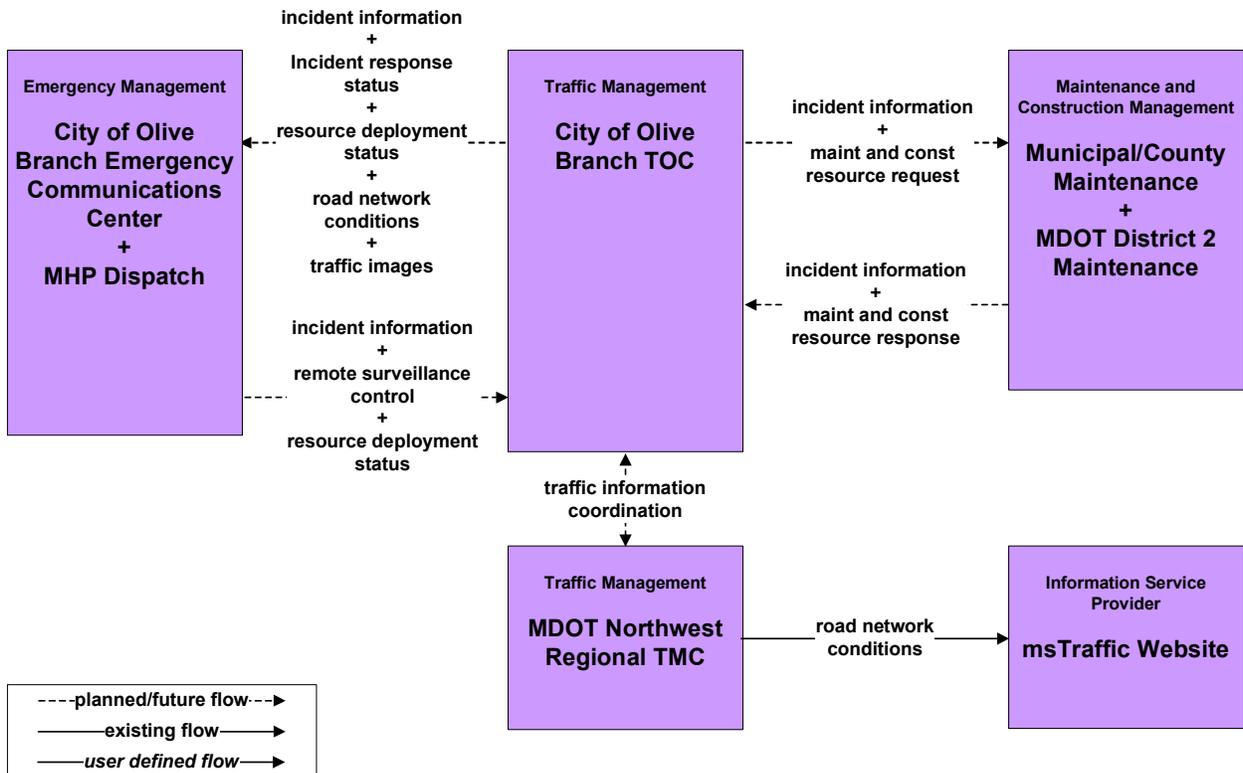
**ATMS08 – Traffic Incident Management System
City of Germantown**



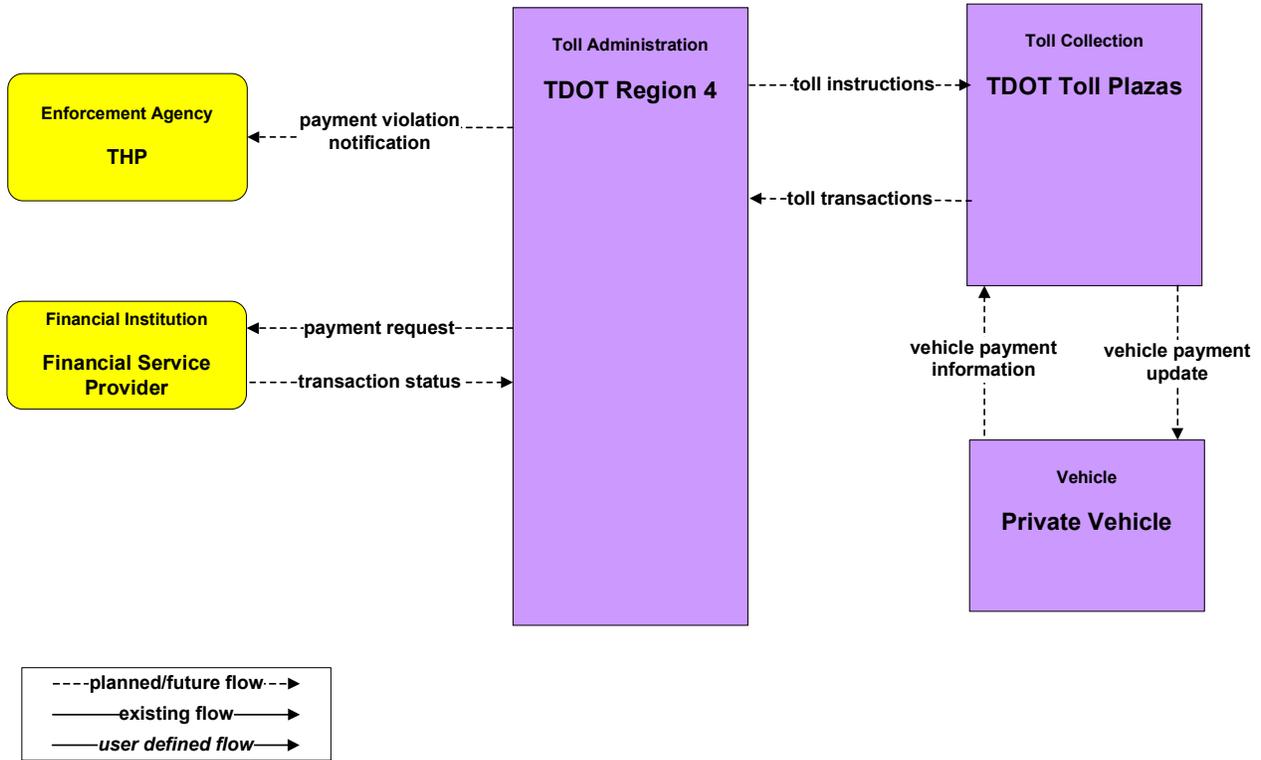
**ATMS08 – Traffic Incident Management System
City of Millington**



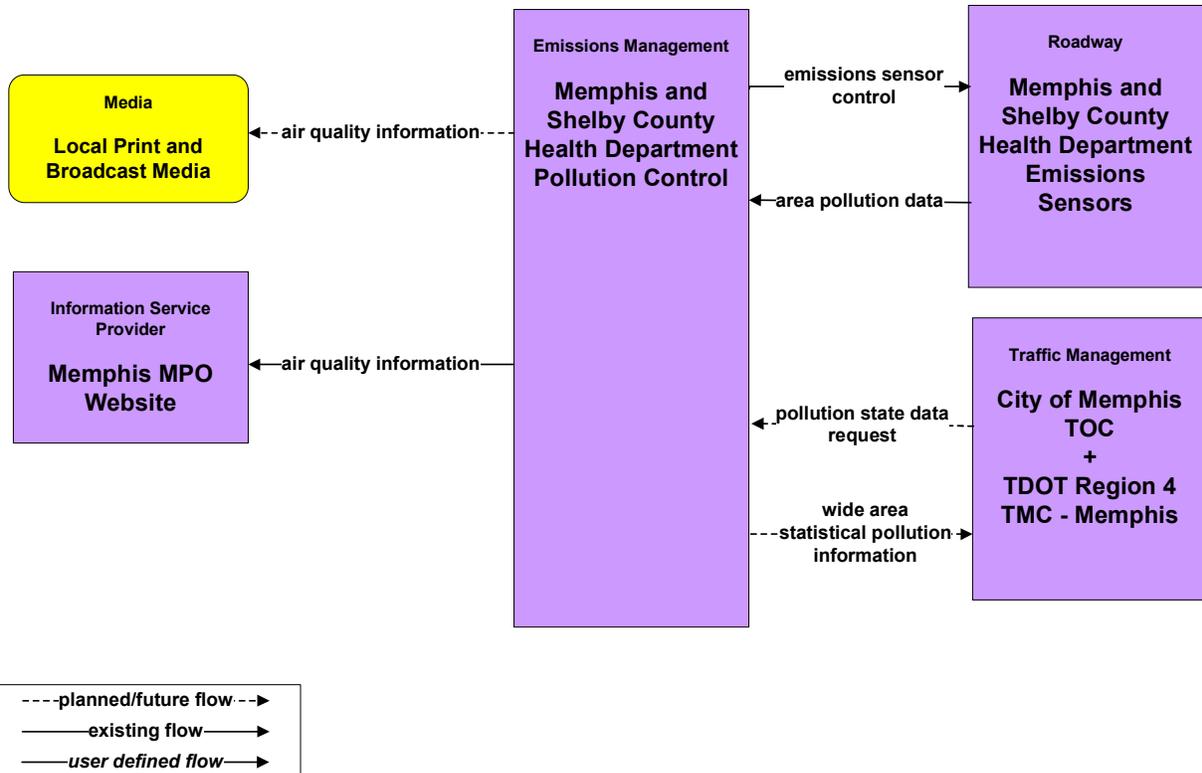
**ATMS08 – Traffic Incident Management System
City of Olive Branch**



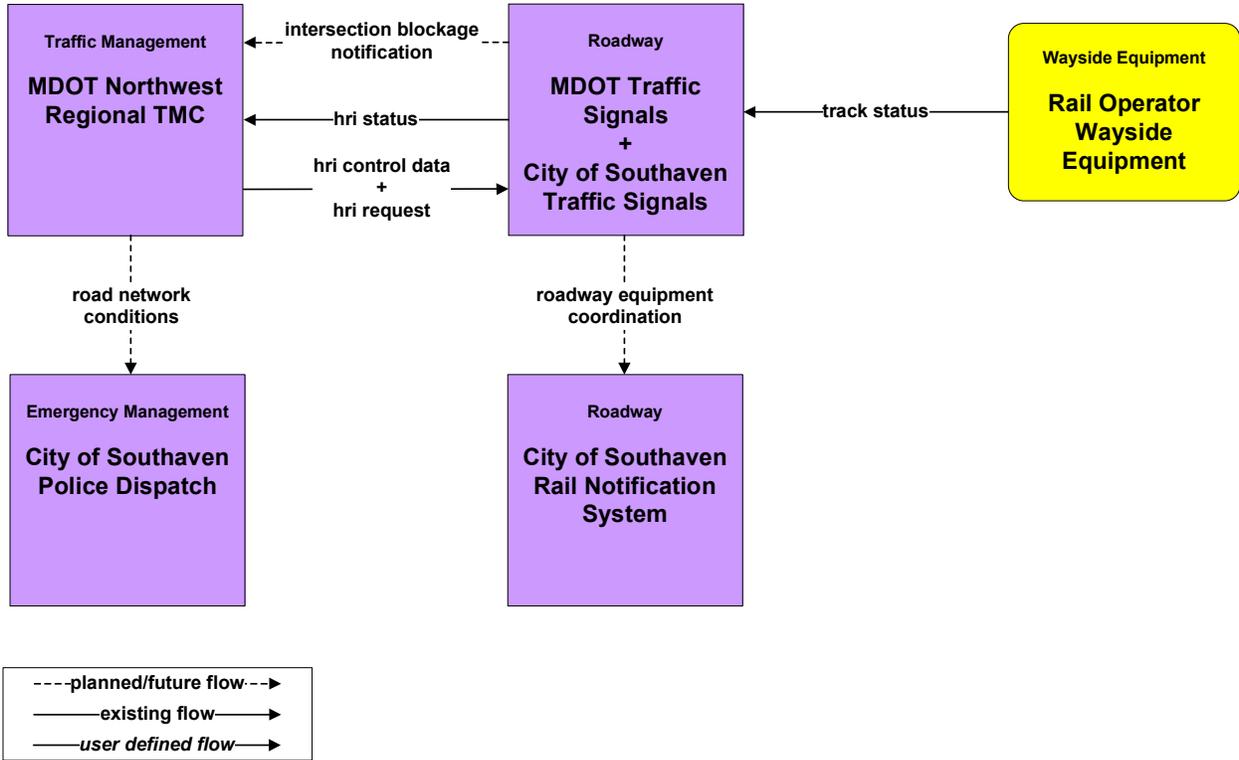
**ATMS10 – Electronic Toll Collection
TDOT Region 4**



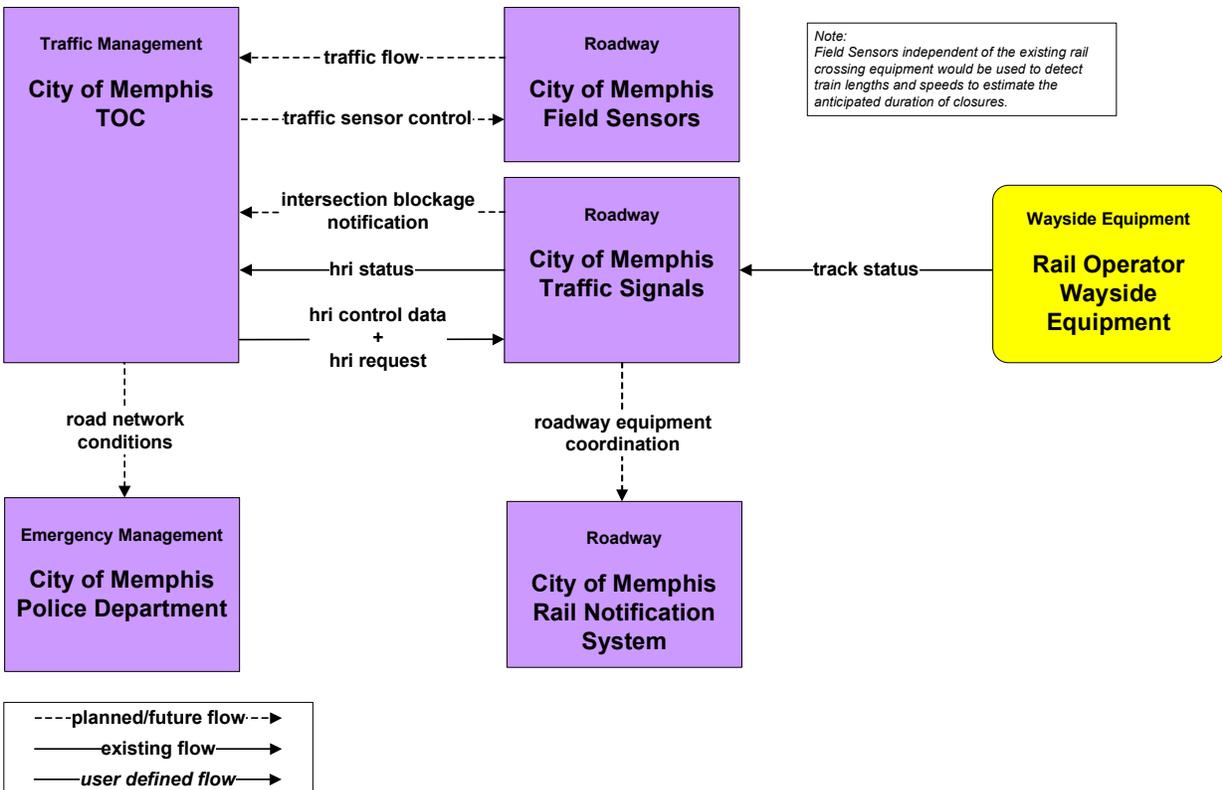
**ATMS11 – Emissions Monitoring and Management
Memphis and Shelby County Health Department**



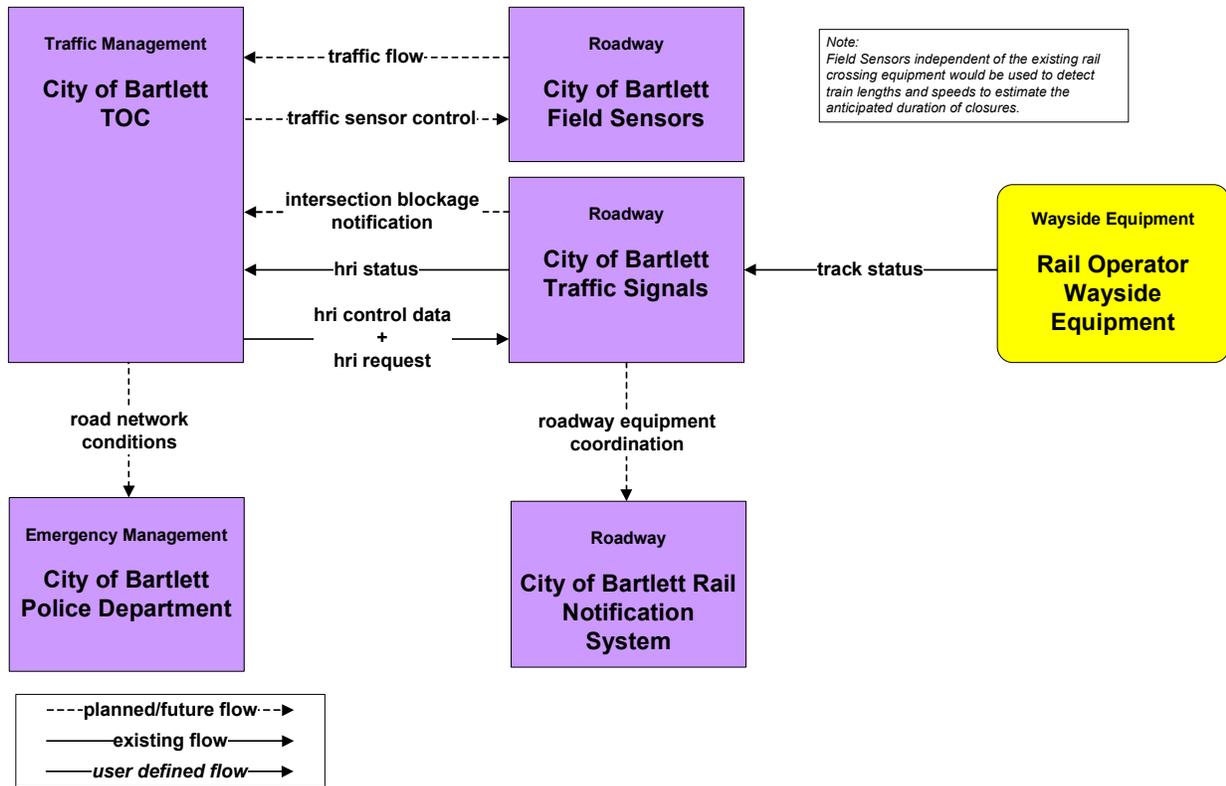
**ATMS13 – Standard Railroad Grade Crossing
MDOT and City of Southaven**



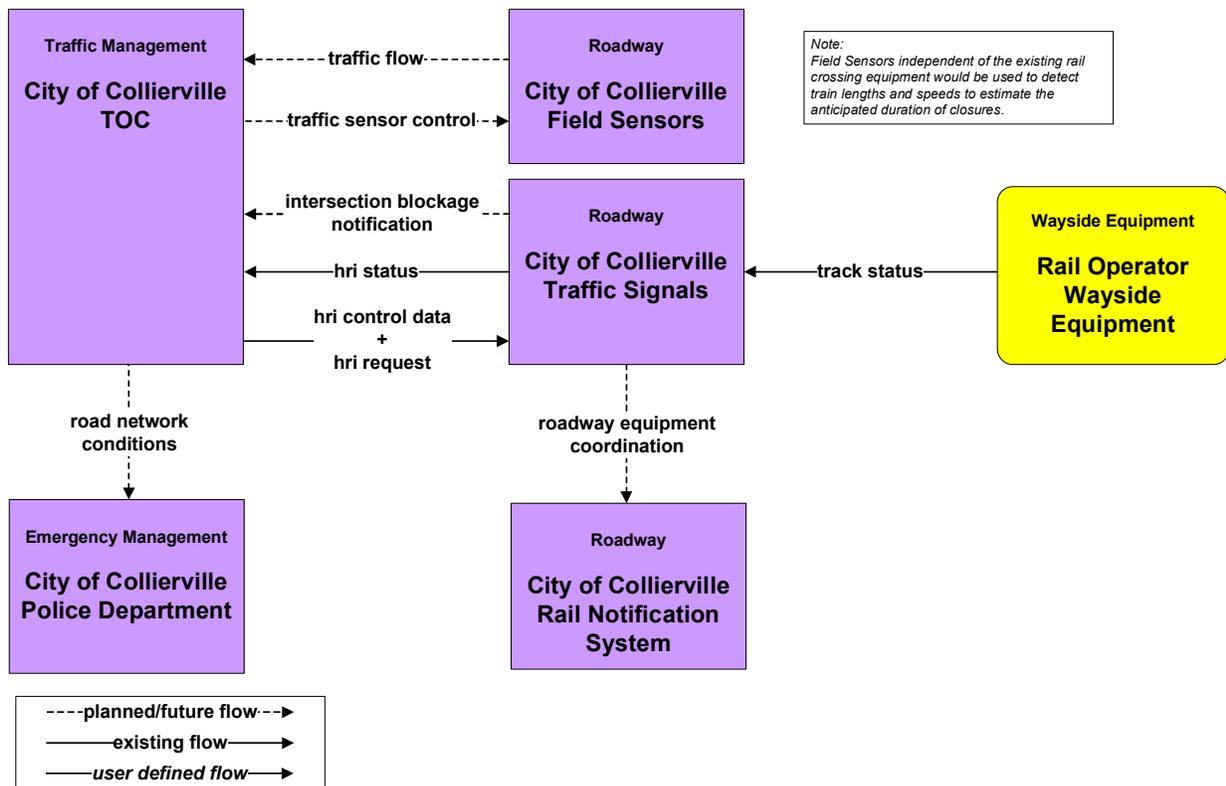
**ATMS13 – Standard Railroad Grade Crossing
City of Memphis**



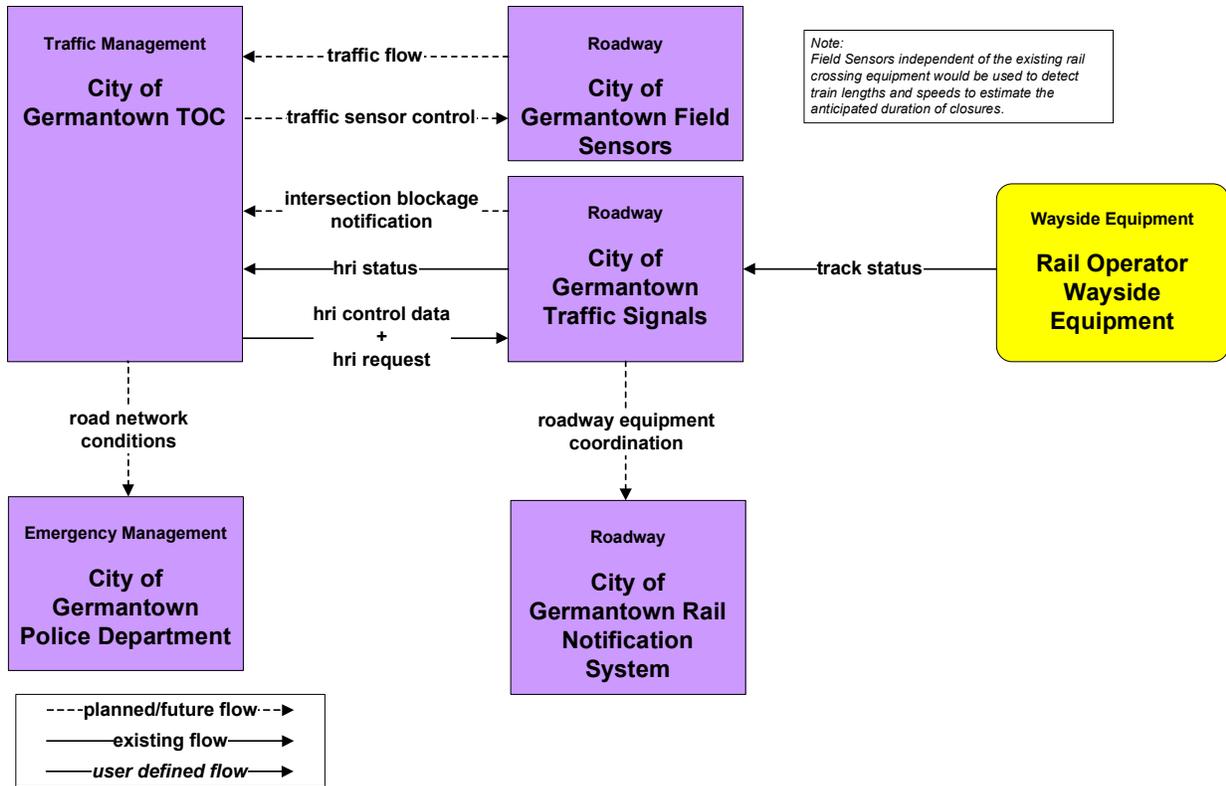
**ATMS13 – Standard Railroad Grade Crossing
City of Bartlett**



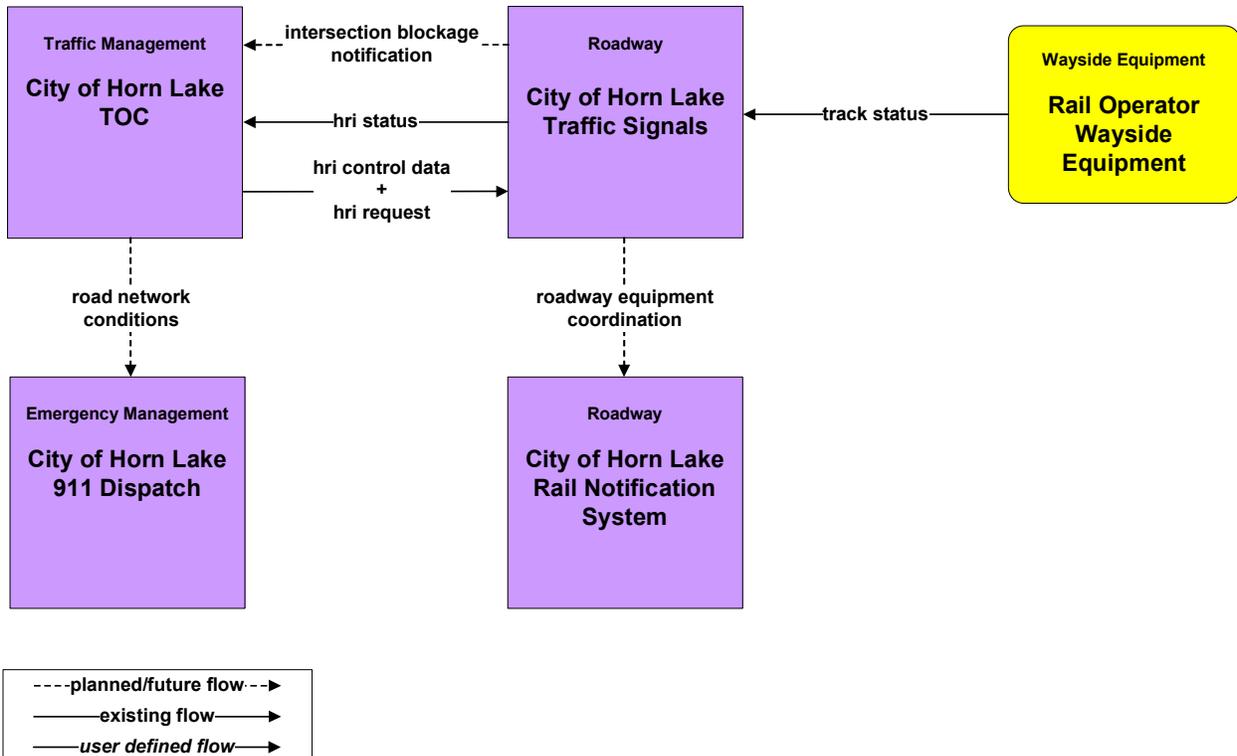
**ATMS13 – Standard Railroad Grade Crossing
City of Collierville**



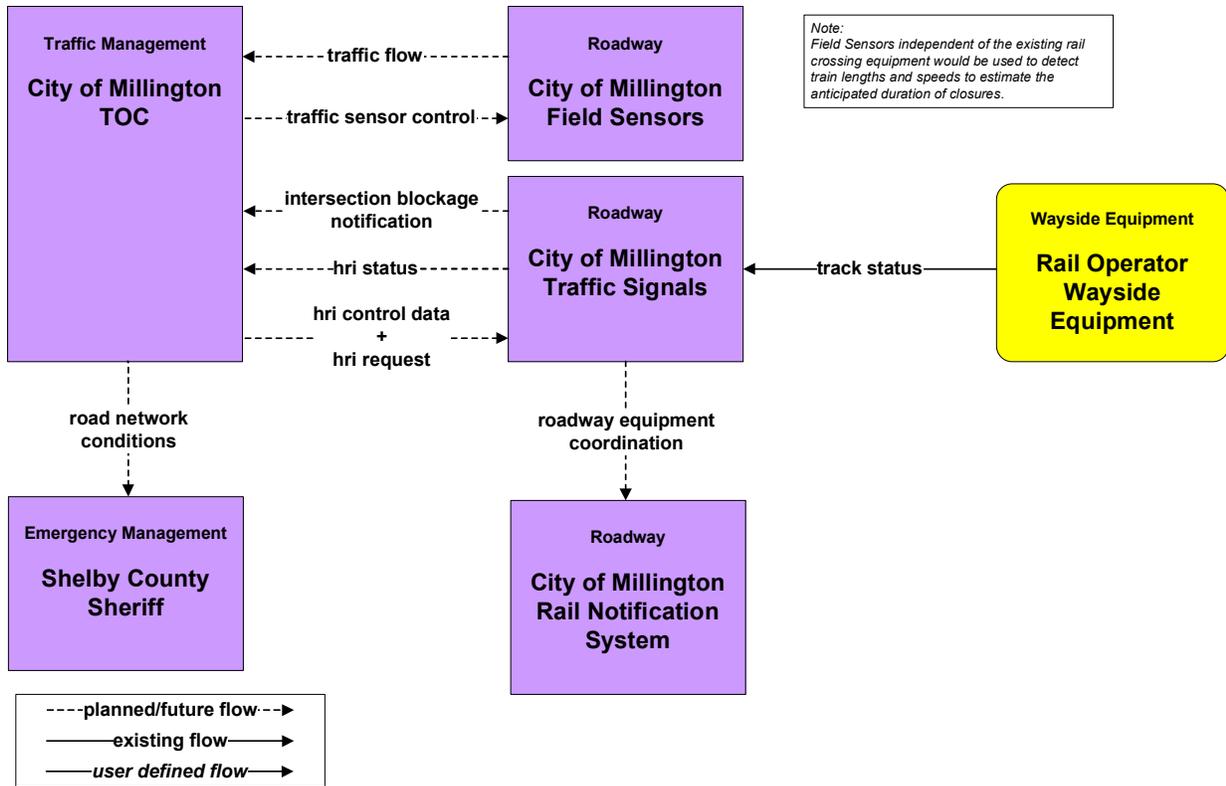
**ATMS13 – Standard Railroad Grade Crossing
City of Germantown**



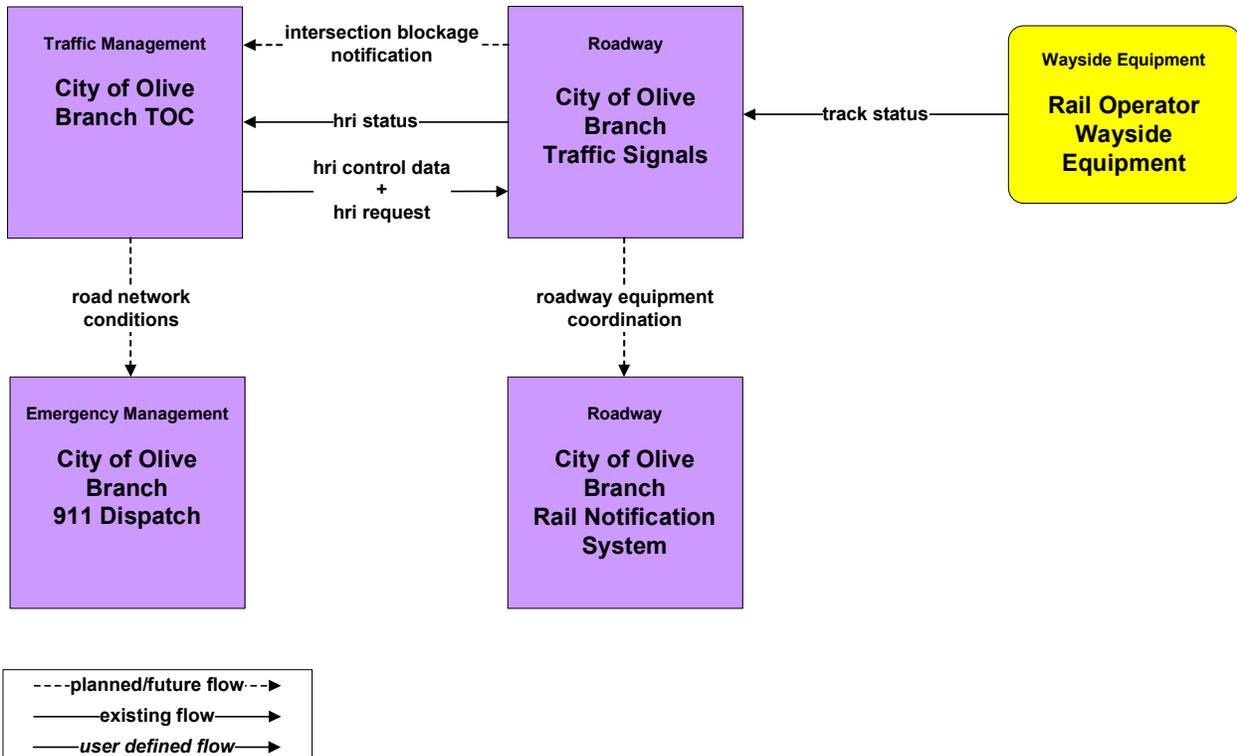
**ATMS13 – Standard Railroad Grade Crossing
City of Horn Lake**



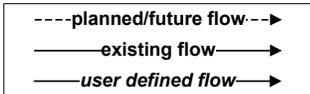
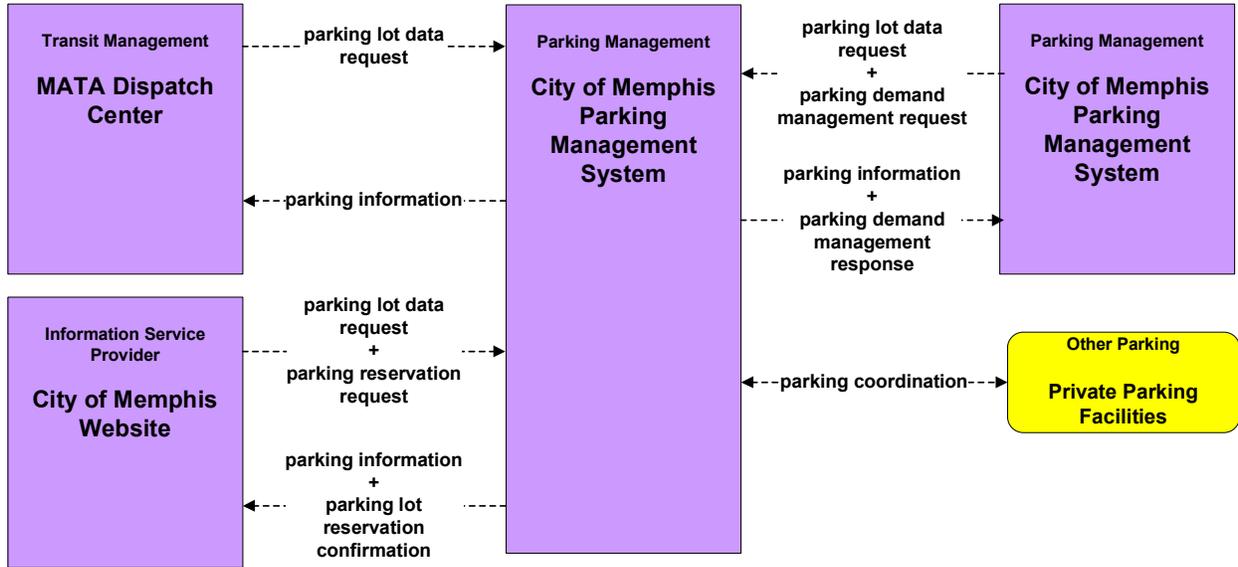
**ATMS13 – Standard Railroad Grade Crossing
City of Millington**



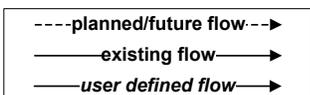
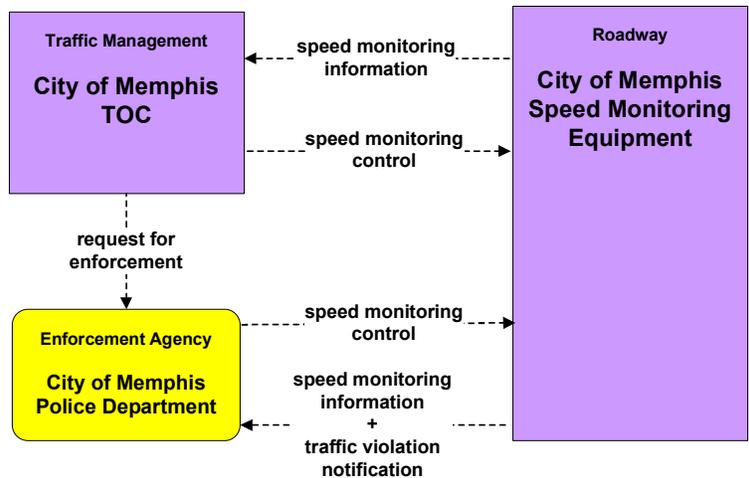
**ATMS13 – Standard Railroad Grade Crossing
City of Olive Branch**



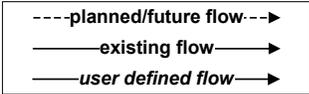
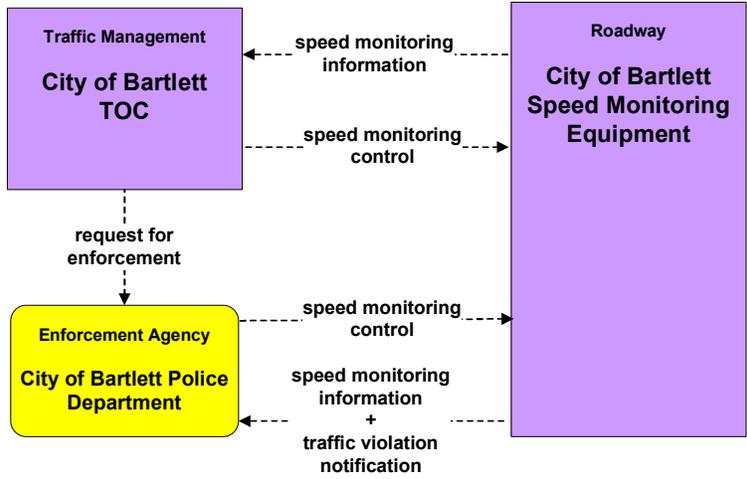
**ATMS17 – Regional Parking Management
City of Memphis**



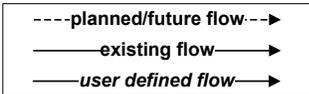
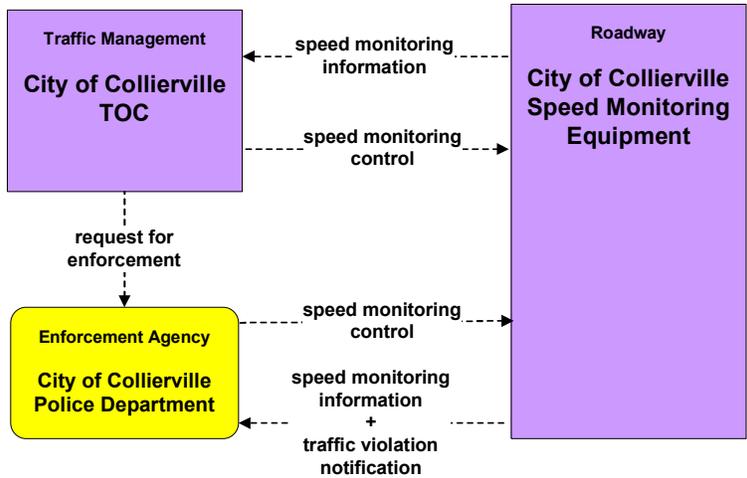
**ATMS19 – Speed Monitoring
City of Memphis**



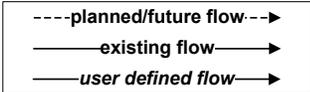
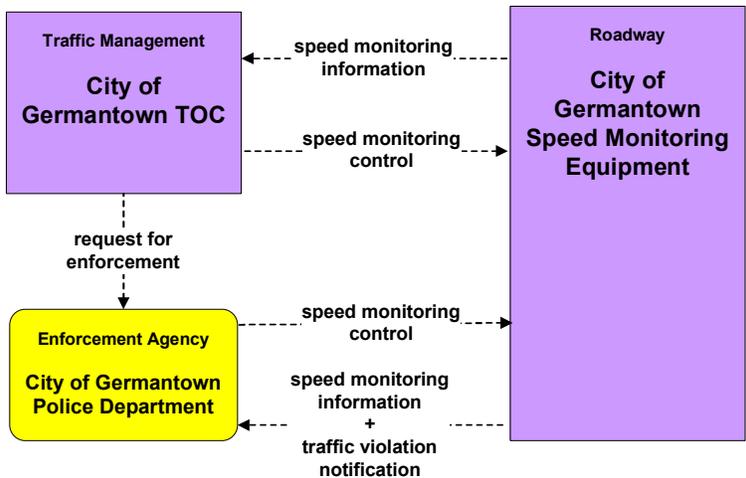
**ATMS19 – Speed Monitoring
City of Bartlett**



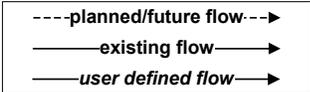
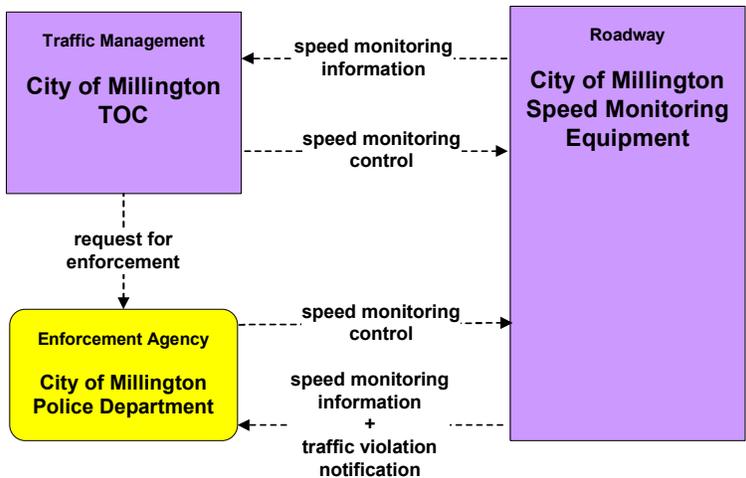
**ATMS19 – Speed Monitoring
City of Collierville**



**ATMS19 – Speed Monitoring
City of Germantown**

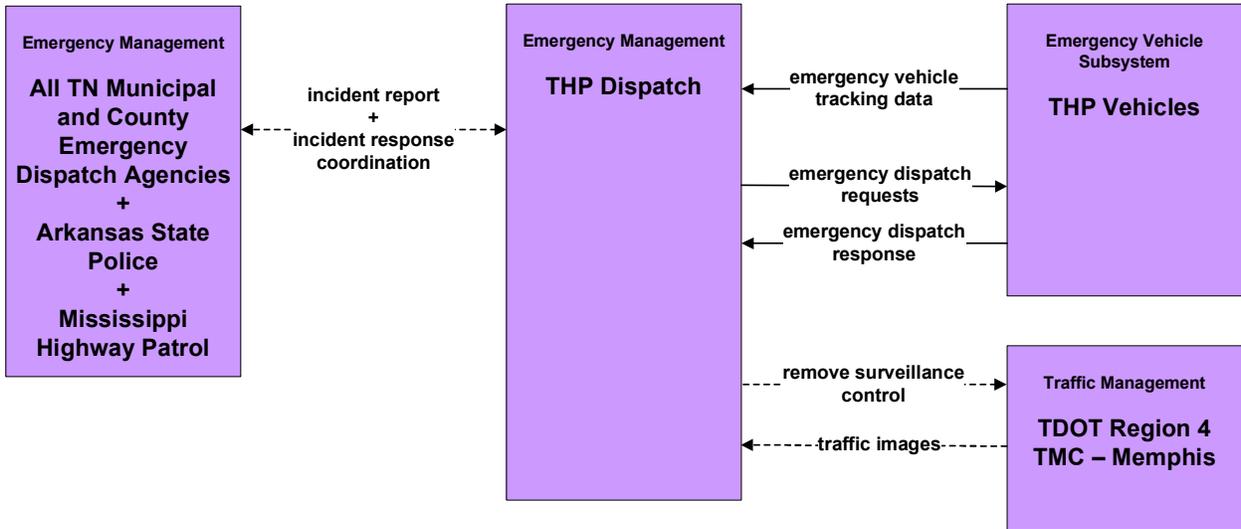


**ATMS19 – Speed Monitoring
City of Millington**

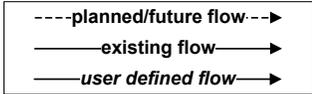


Emergency Management

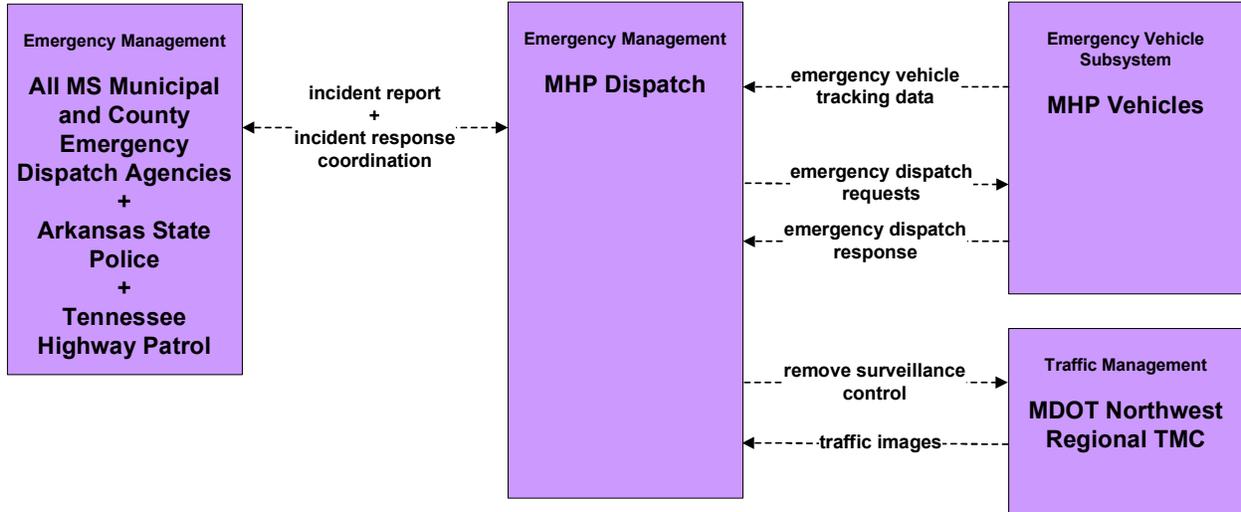
**EM01 – Emergency Call-Taking and Dispatch
Tennessee Highway Patrol**



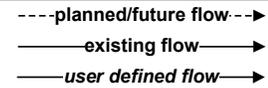
- All TN Municipal and County Emergency Dispatch Agencies includes:*
- City of Bartlett Police Department
 - City of Collierville Police Department
 - City of Germantown Police Department
 - City of Memphis Police Department
 - Fayette County Sheriff
 - Shelby County Sheriff
 - Municipal Public Safety Dispatch



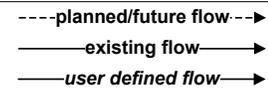
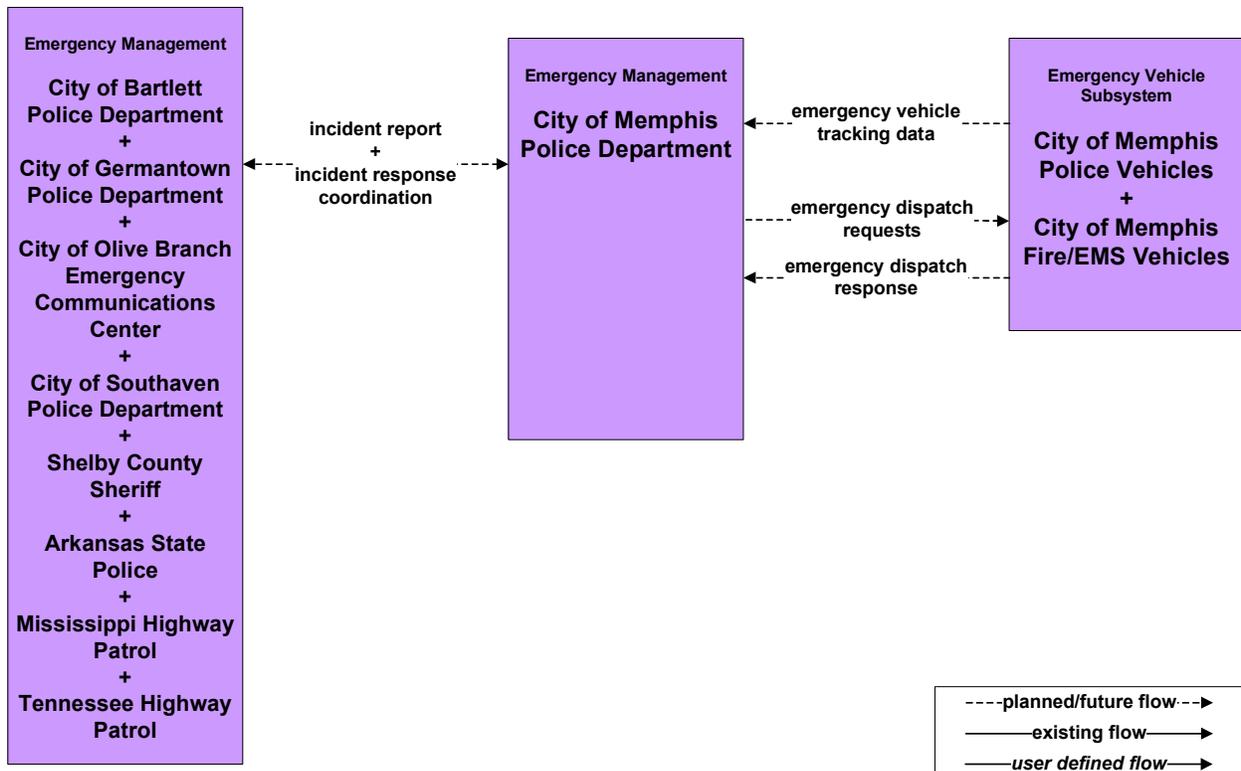
**EM01 – Emergency Call-Taking and Dispatch
Mississippi Highway Patrol**



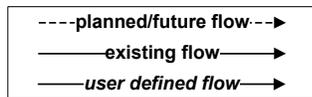
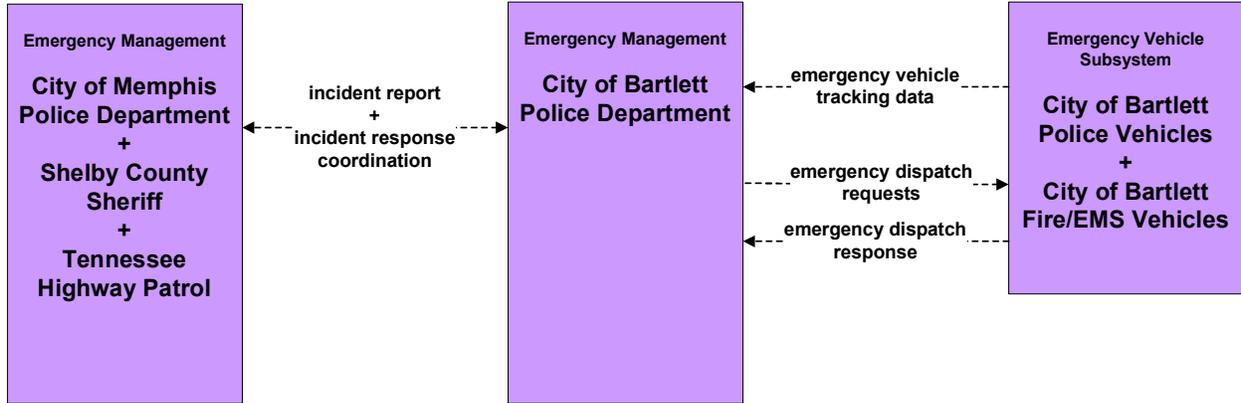
- All MS Municipal and County Emergency Dispatch Agencies includes:*
- City of Horn Lake 911 Dispatch
 - City of Olive Branch Emergency Communications Center
 - City of Southaven Police Department
 - De Soto County E-911
 - Municipal Public Safety Dispatch



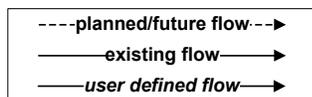
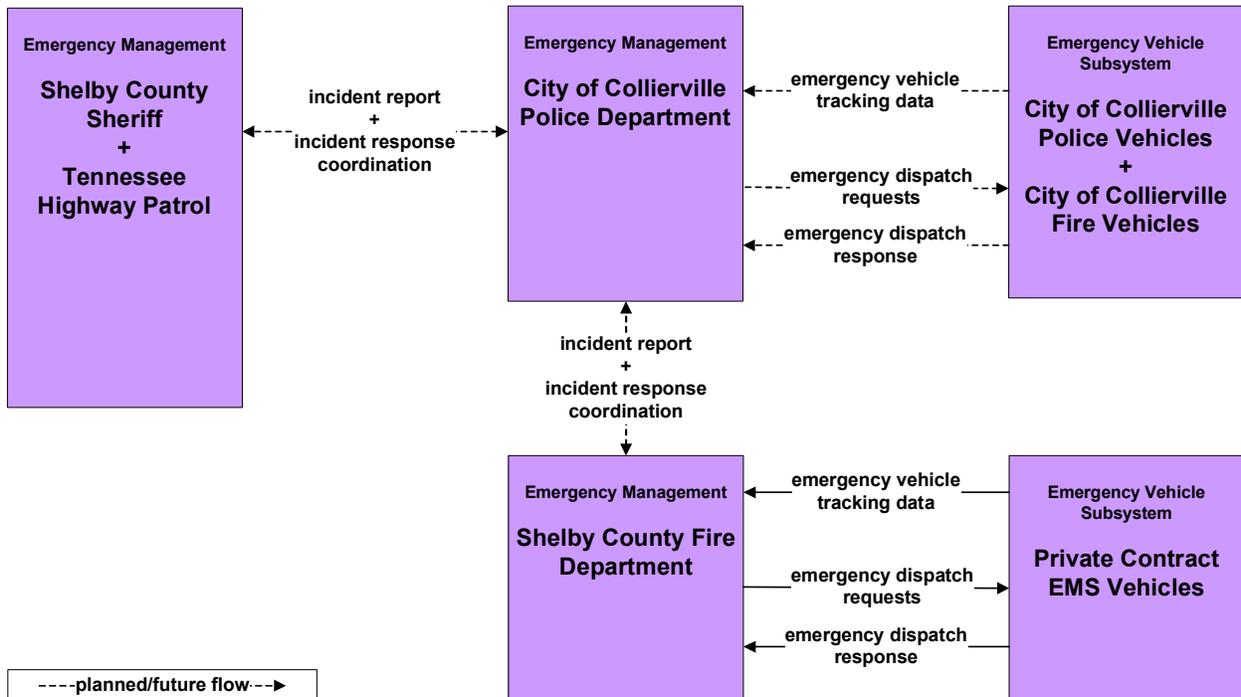
**EM01 – Emergency Call-Taking and Dispatch
City of Memphis Police Department**



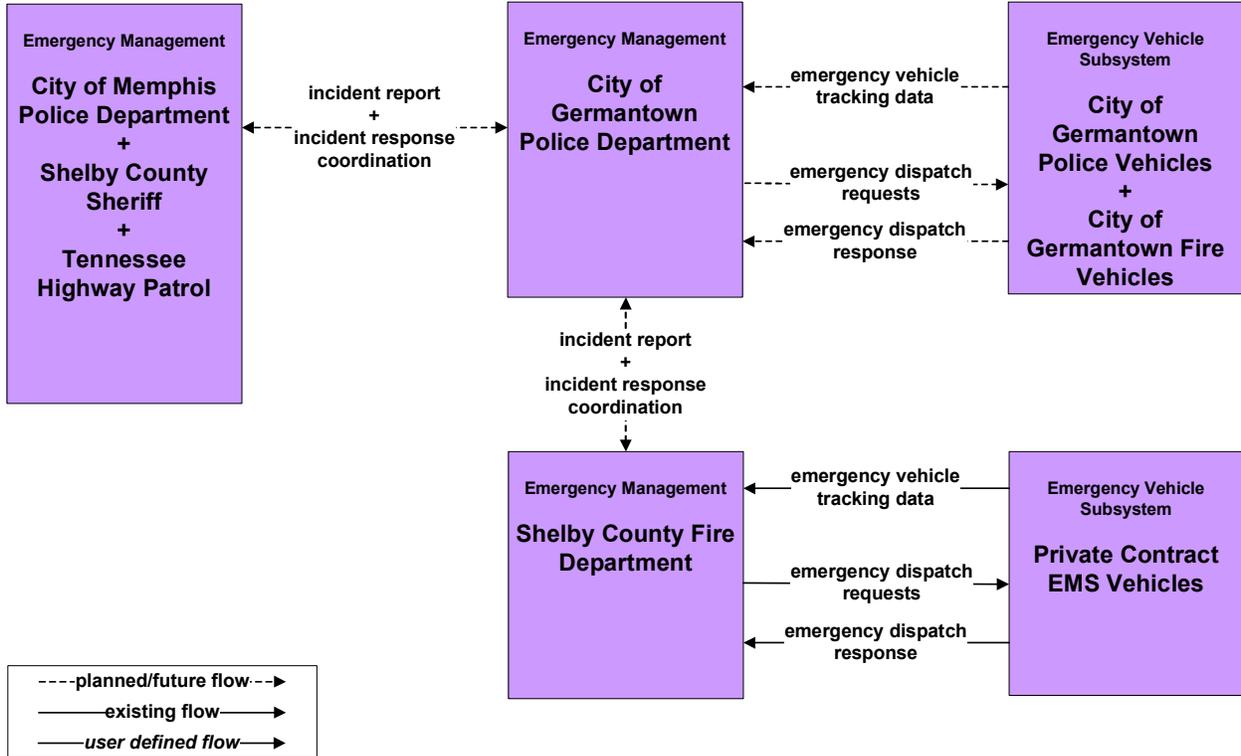
**EM01 – Emergency Call-Taking and Dispatch
City of Bartlett Police Department**



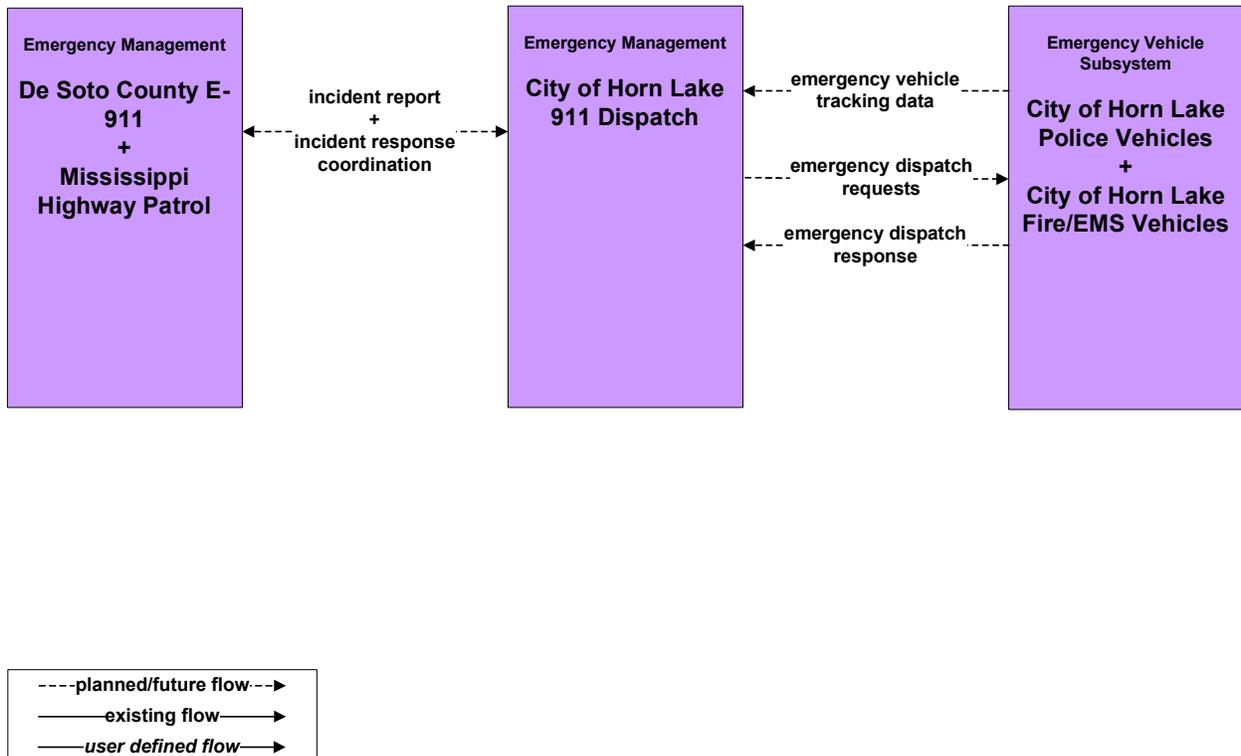
**EM01 – Emergency Call-Taking and Dispatch
City of Collierville Police Department**



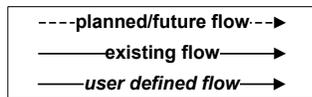
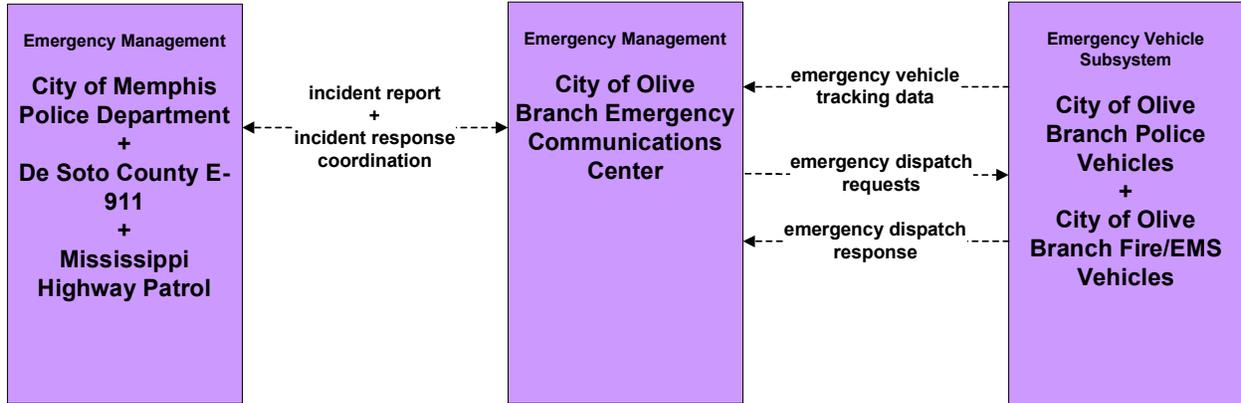
**EM01 – Emergency Call-Taking and Dispatch
City of Germantown Police Department**



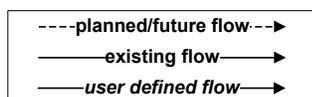
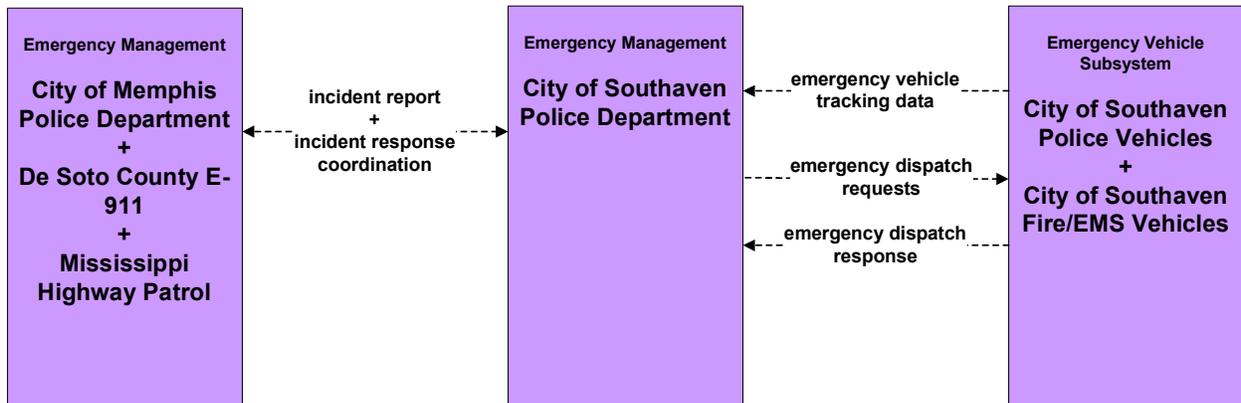
**EM01 – Emergency Call-Taking and Dispatch
City of Horn Lake 911 Dispatch**



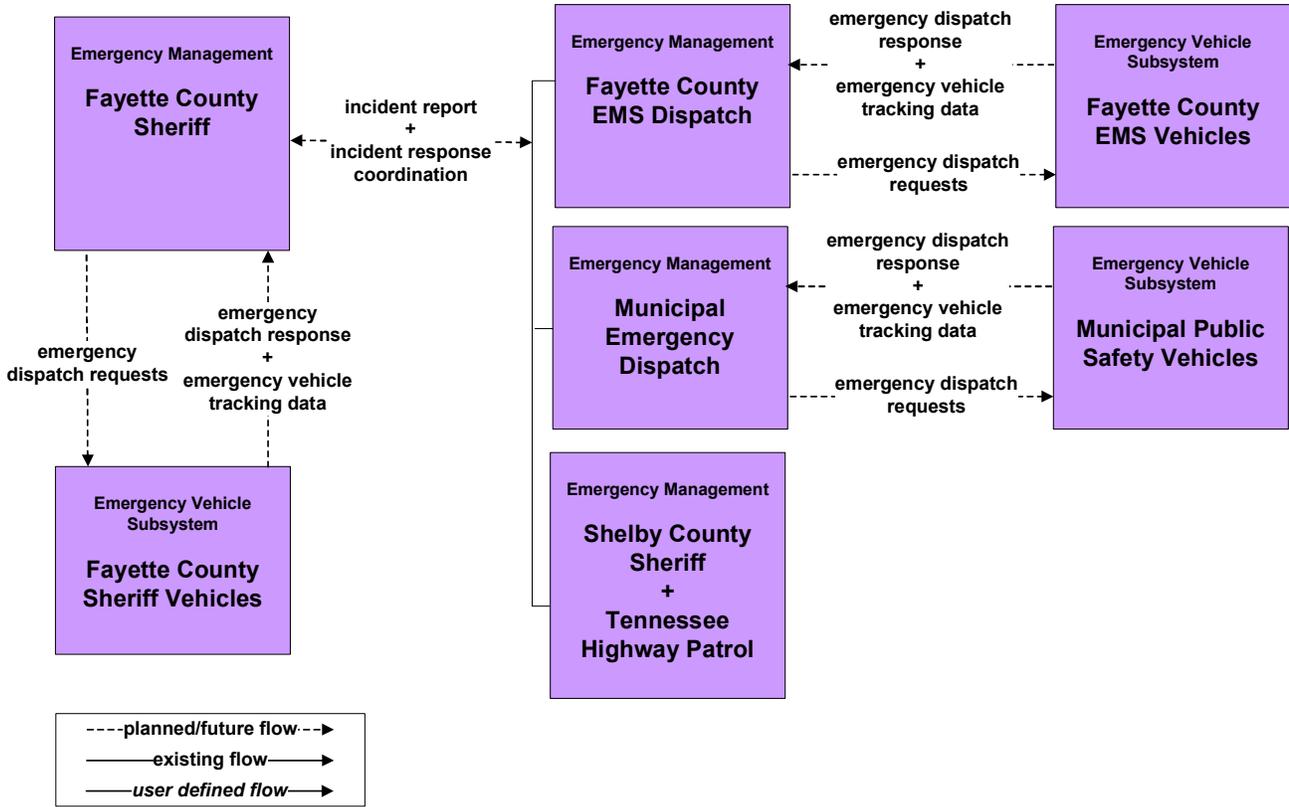
**EM01 – Emergency Call-Taking and Dispatch
City of Olive Branch Emergency Communications Center**



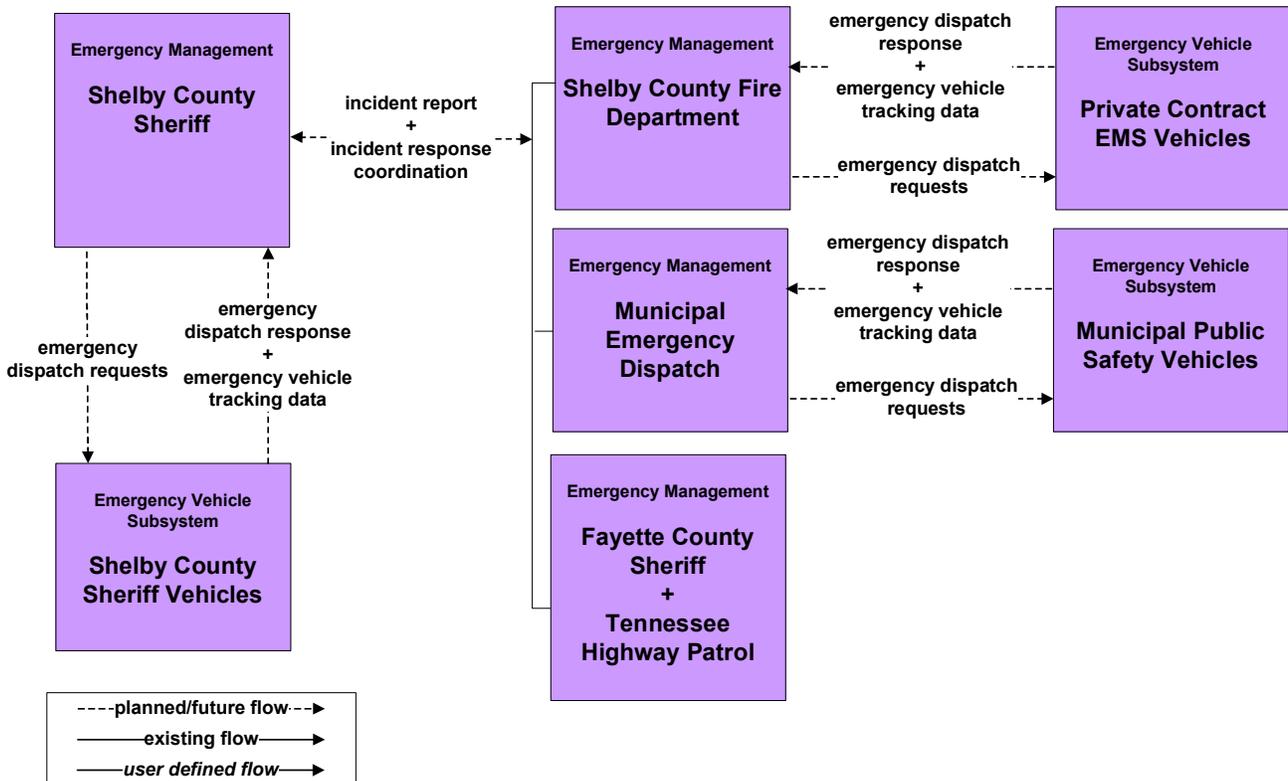
**EM01 – Emergency Call-Taking and Dispatch
City of Southaven Police Department**



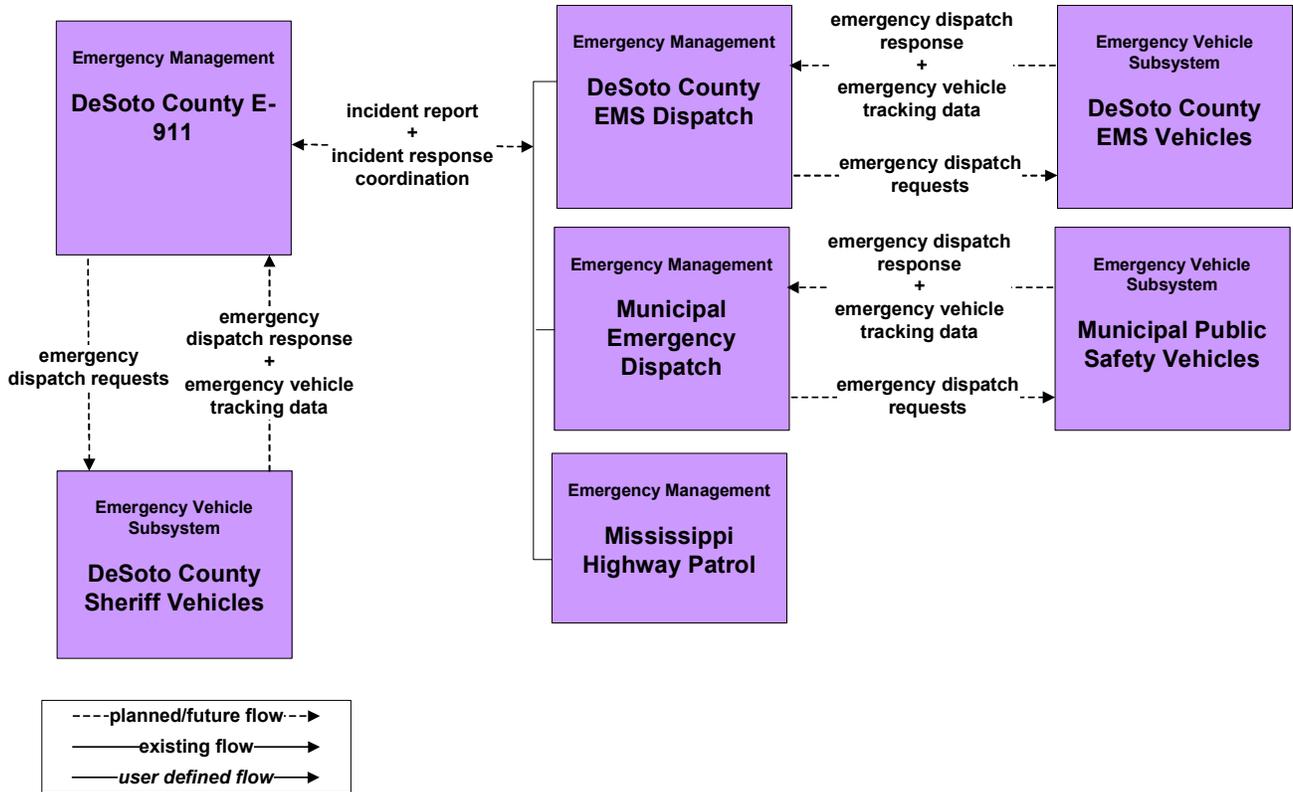
**EM01 - Emergency Call-Taking and Dispatch
Fayette County Sheriff**



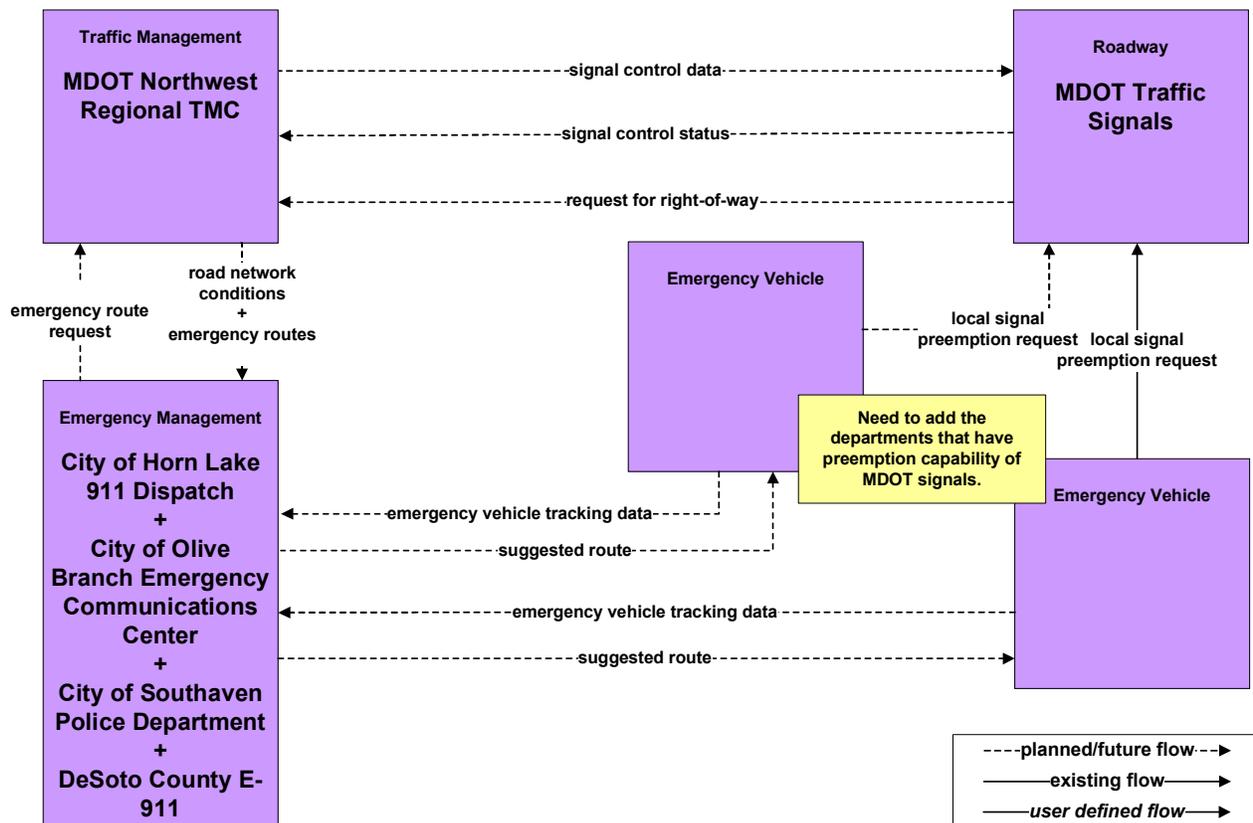
**EM01 - Emergency Call-Taking and Dispatch
Shelby County Sheriff**



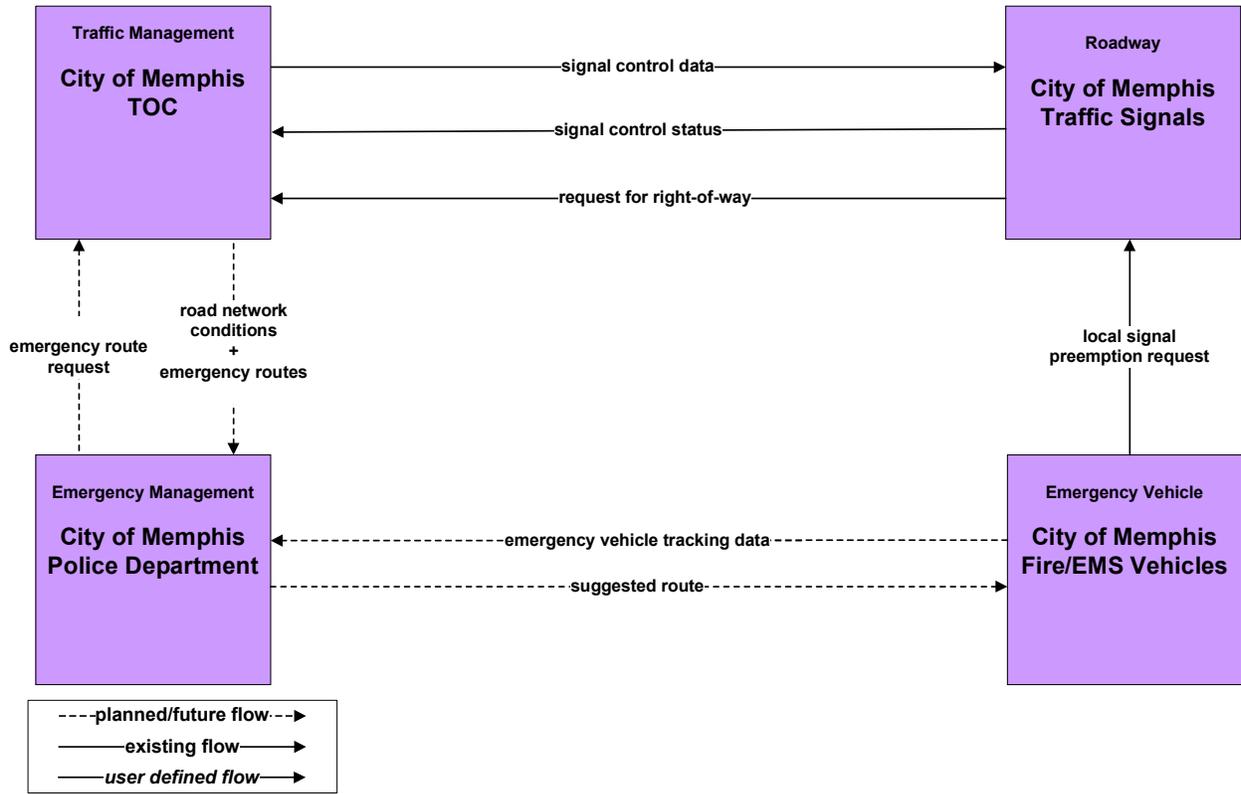
**EM01 - Emergency Call-Taking and Dispatch
DeSoto County E-911**



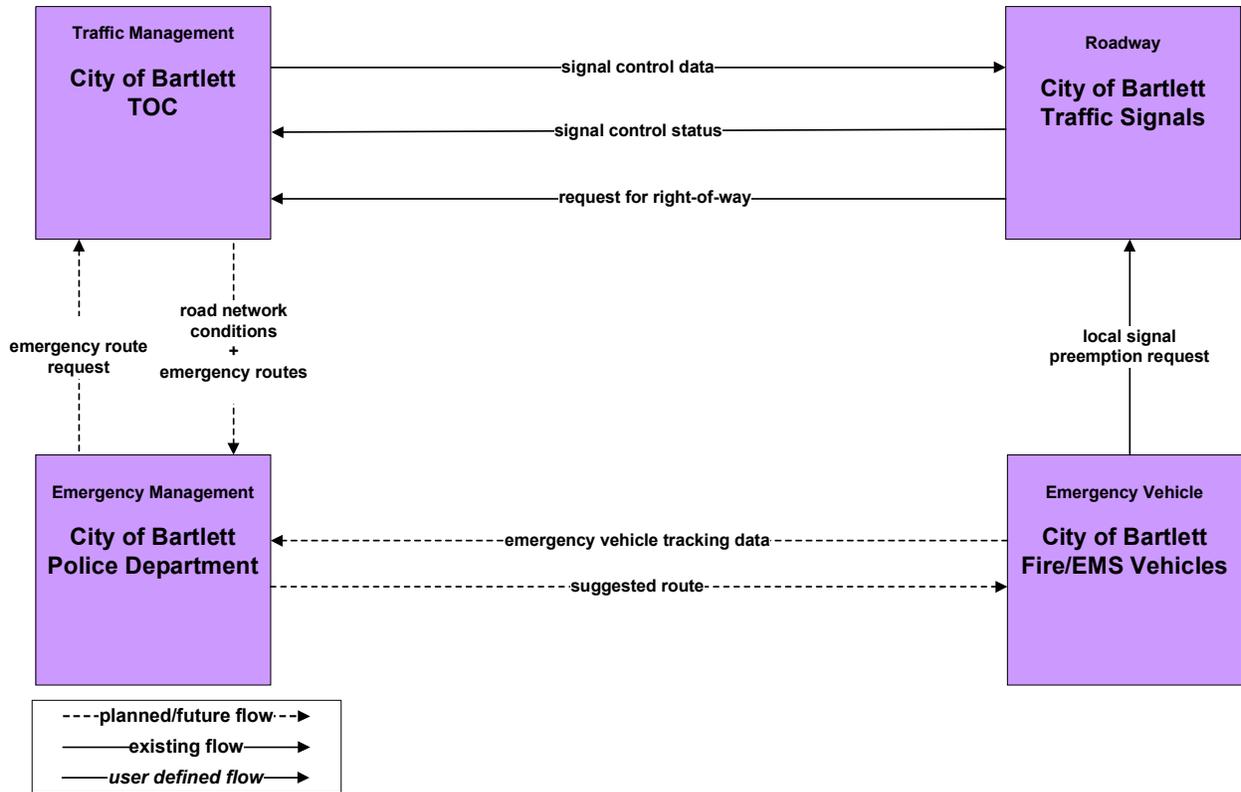
**EM02 – Emergency Routing
MDOT**



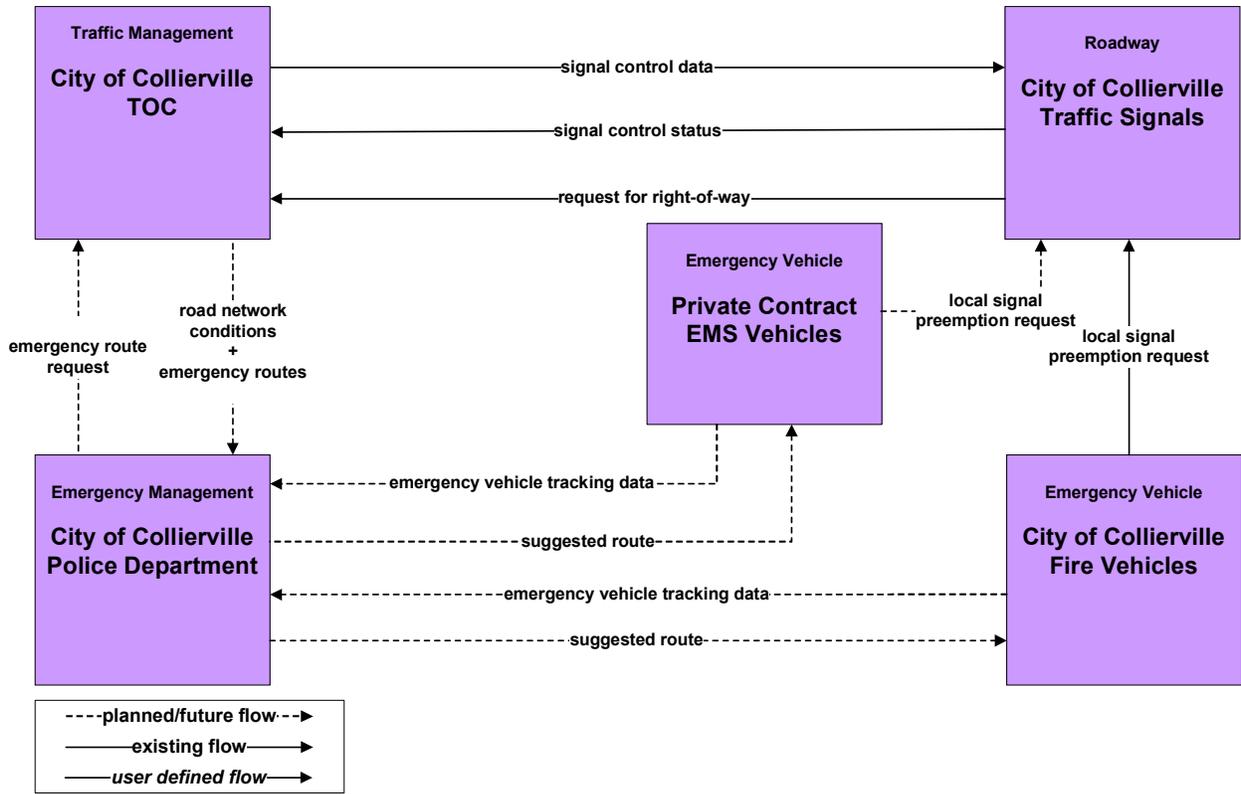
**EM02 – Emergency Routing
City of Memphis**



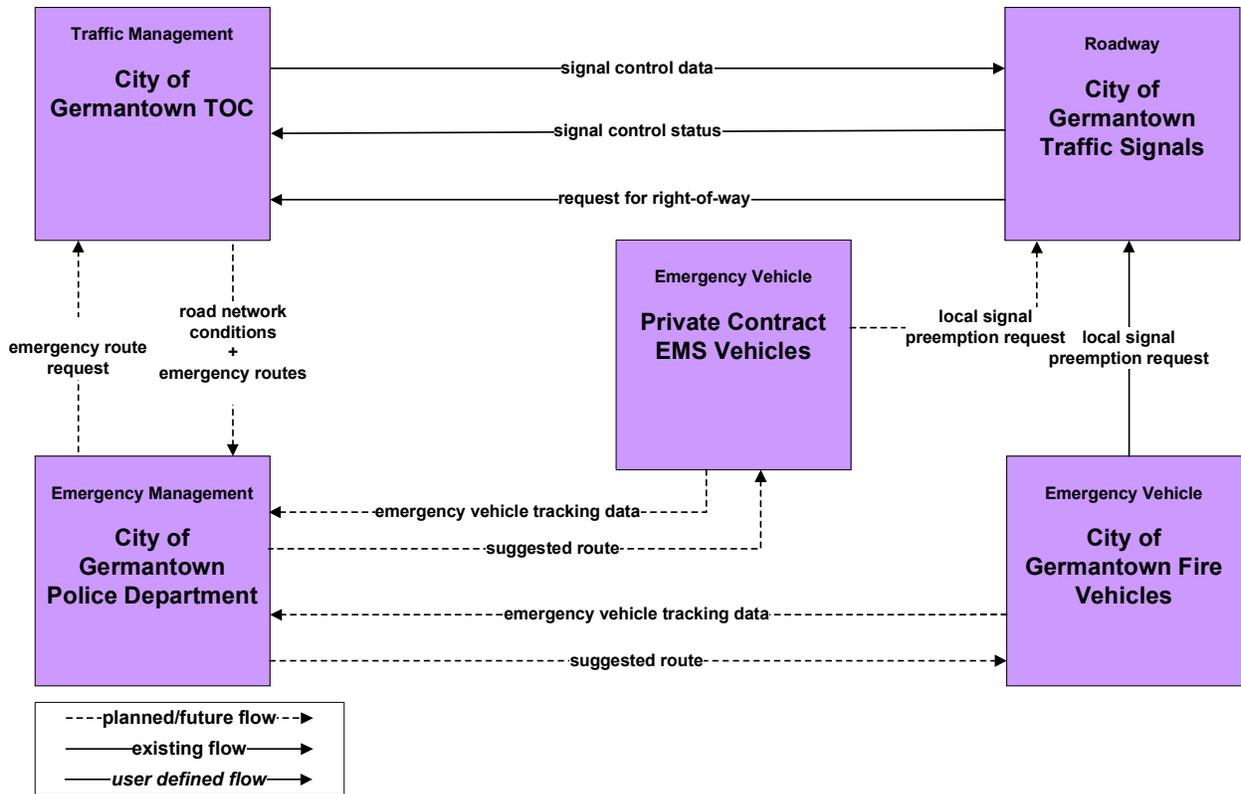
**EM02 – Emergency Routing
City of Bartlett**



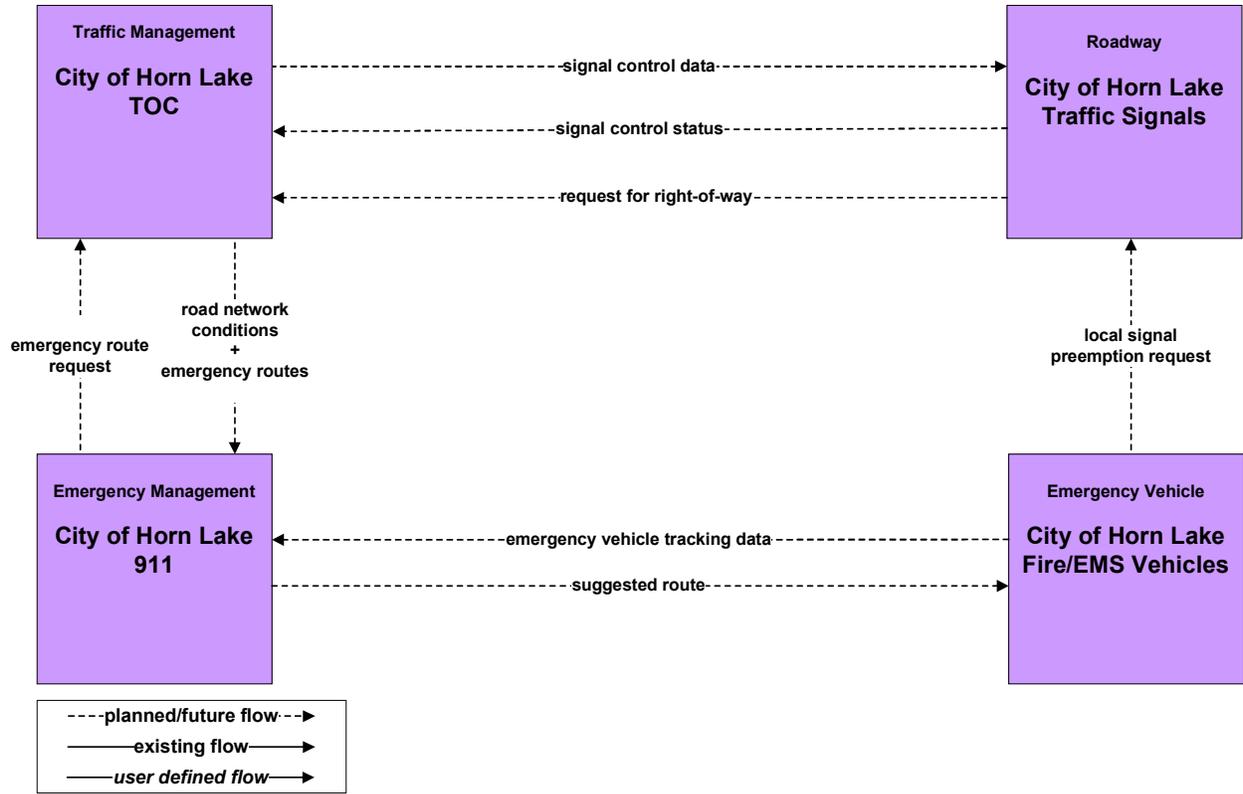
**EM02 – Emergency Routing
City of Collierville**



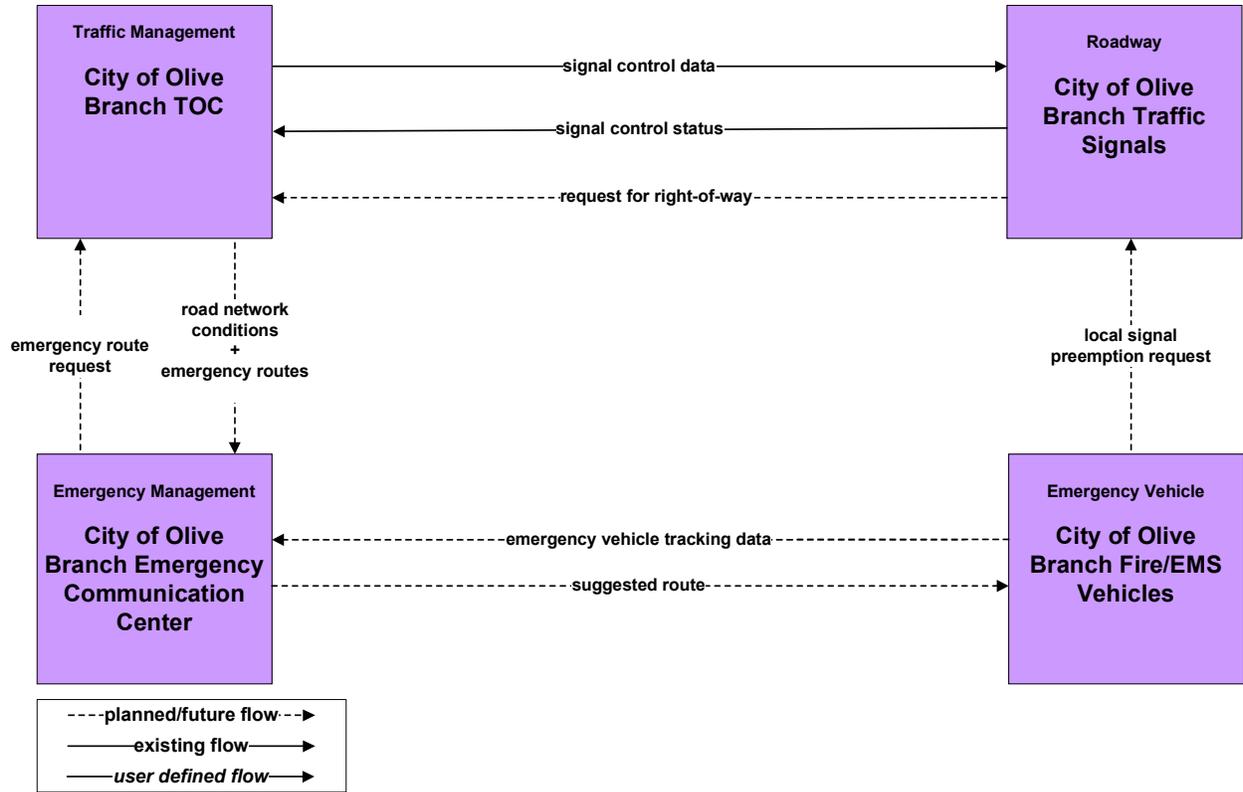
**EM02 – Emergency Routing
City of Germantown**



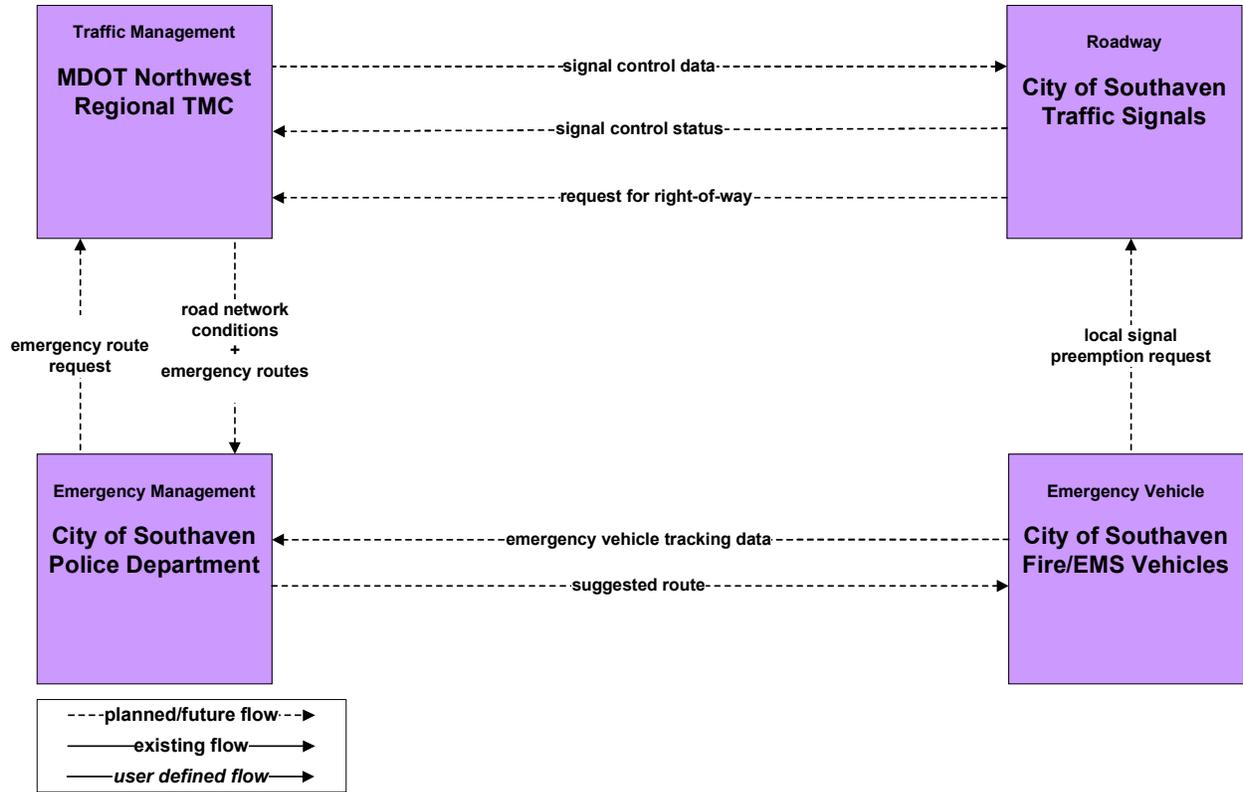
**EM02 – Emergency Routing
City of Horn Lake 911**



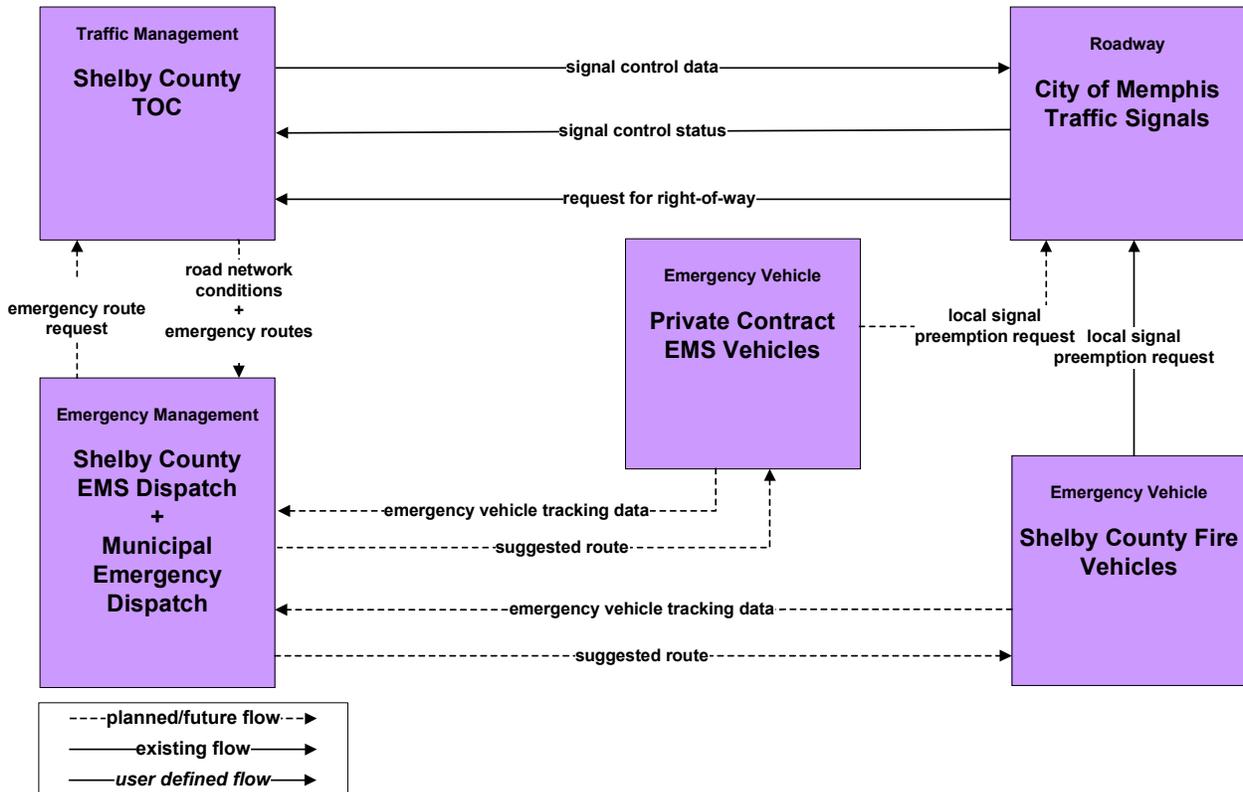
**EM02 – Emergency Routing
City of Olive Branch Emergency Communication Center**



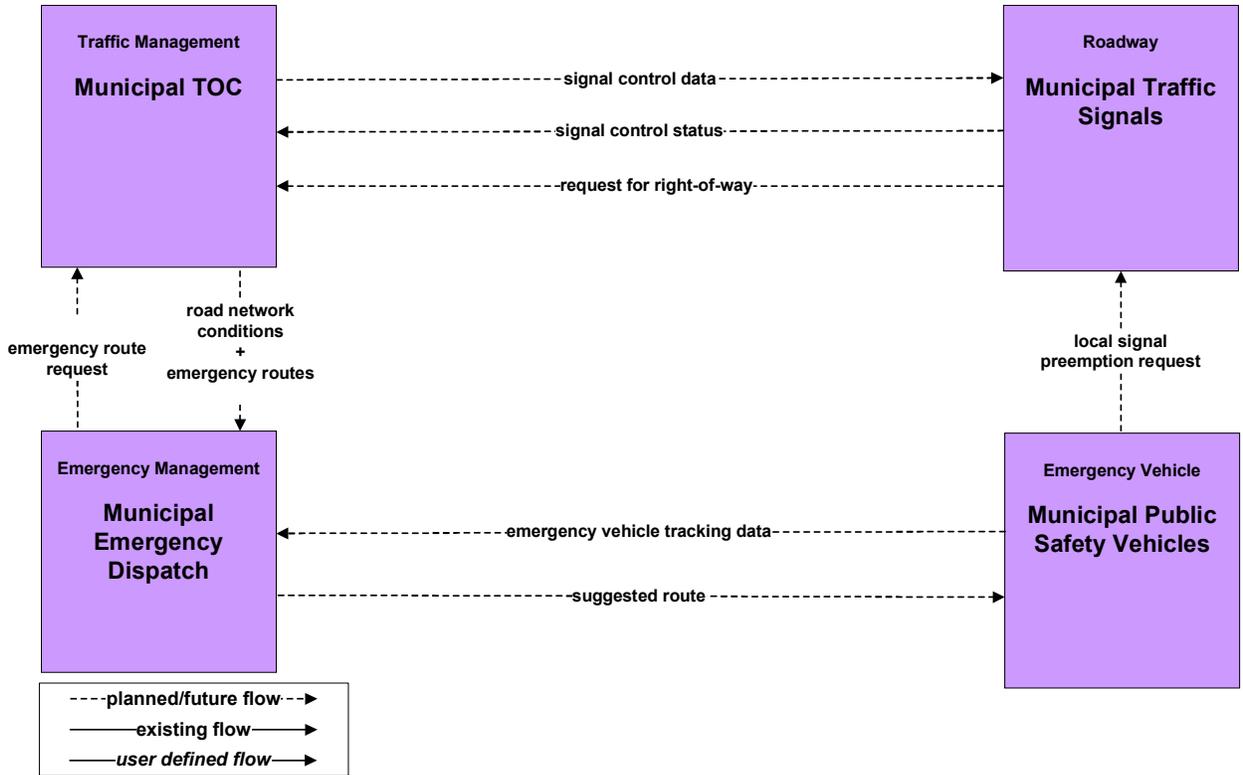
**EM02 – Emergency Routing
City of Southaven**



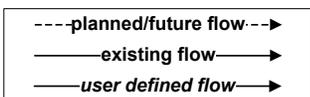
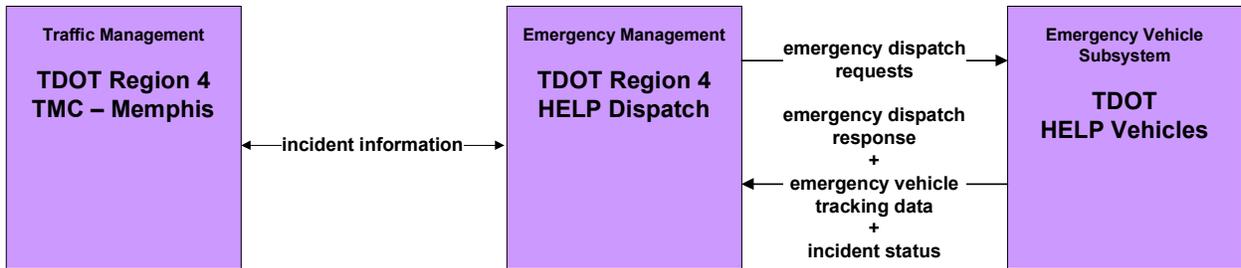
**EM02 – Emergency Routing
Shelby County**



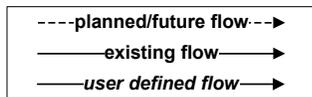
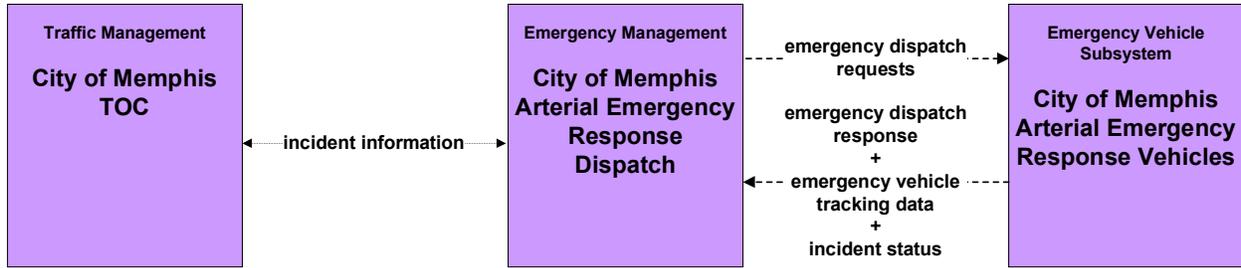
**EM02 – Emergency Routing
Municipal**



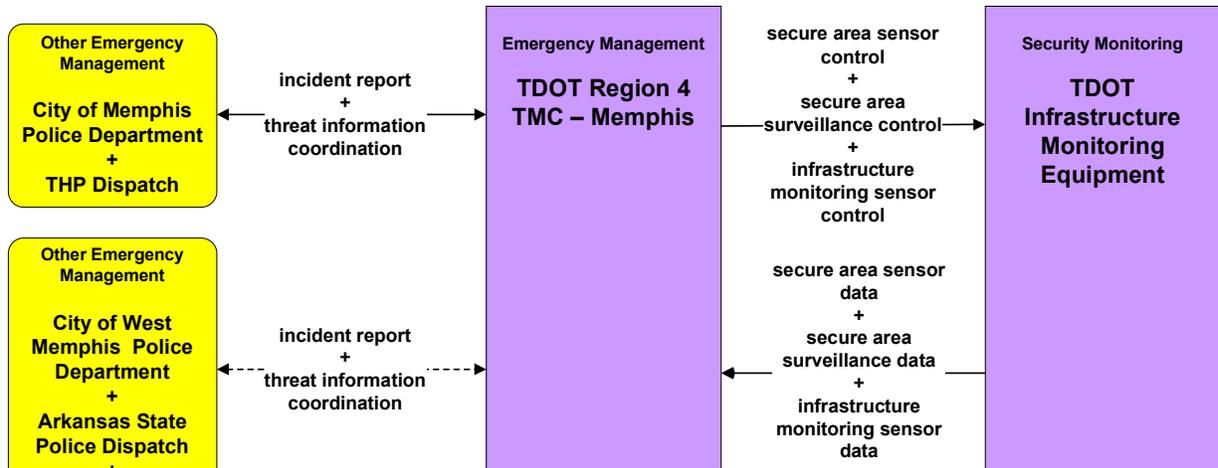
**EM04 – Roadway Service Patrols
HELP**



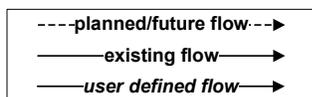
**EM04 – Roadway Service Patrols
City of Memphis Arterial Emergency Response Team**



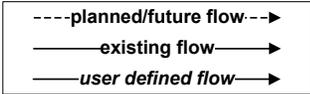
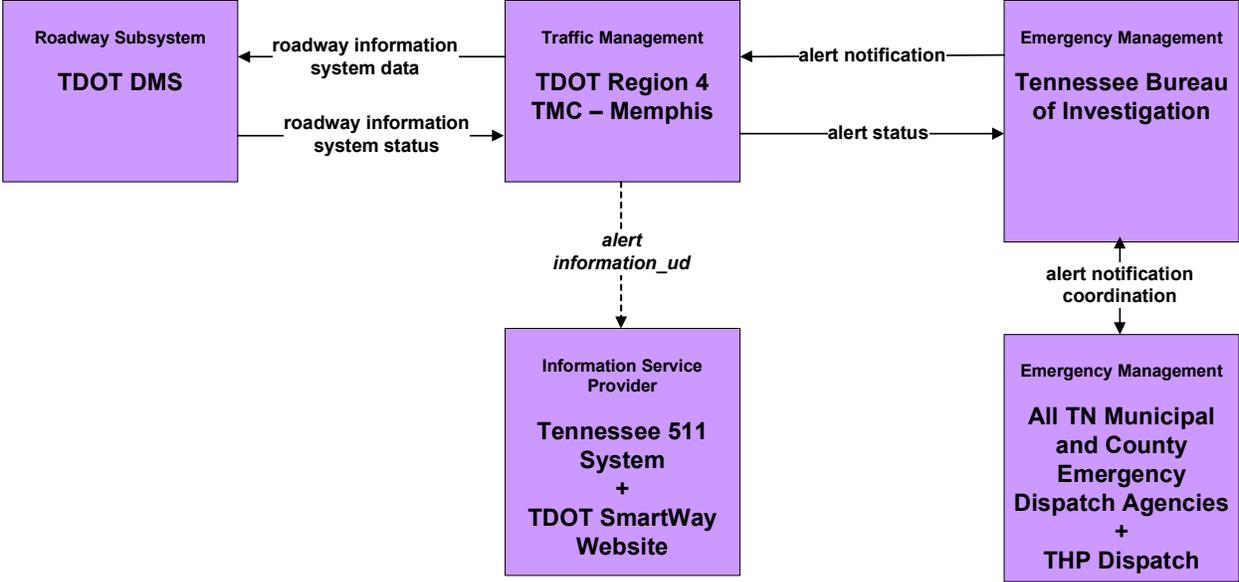
**EM05 – Transportation Infrastructure Protection
TDOT**



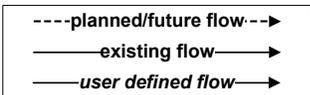
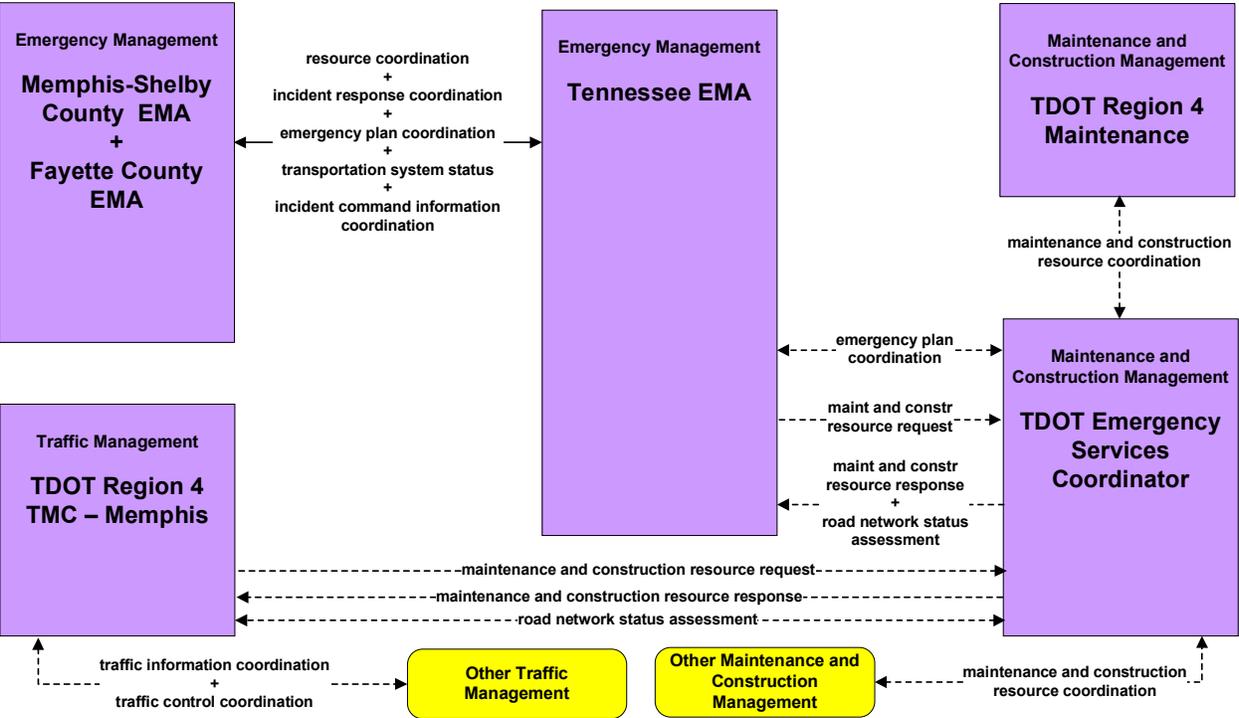
*Note:
AHTD owns surveillance cameras on the Arkansas side of the I-40 Mississippi River Bridge. These cameras are monitored by the Arkansas State Police and West Memphis Police Department. The Coast Guard also has cameras. TDOT would like to access these video feeds in the future.*



**EM06 – Wide-Area Alert
Tennessee AMBER Alert**

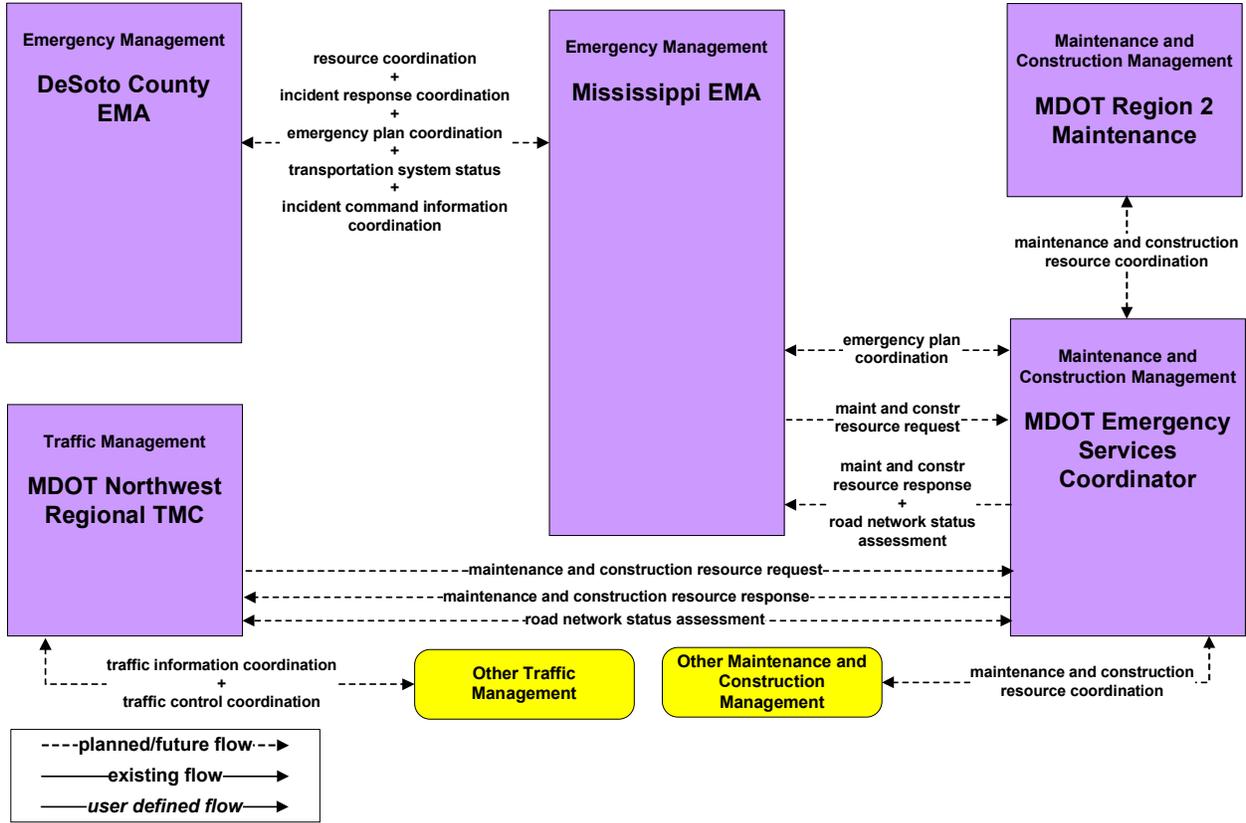


**EM08 – Disaster Response and Recovery
Tennessee EMA**

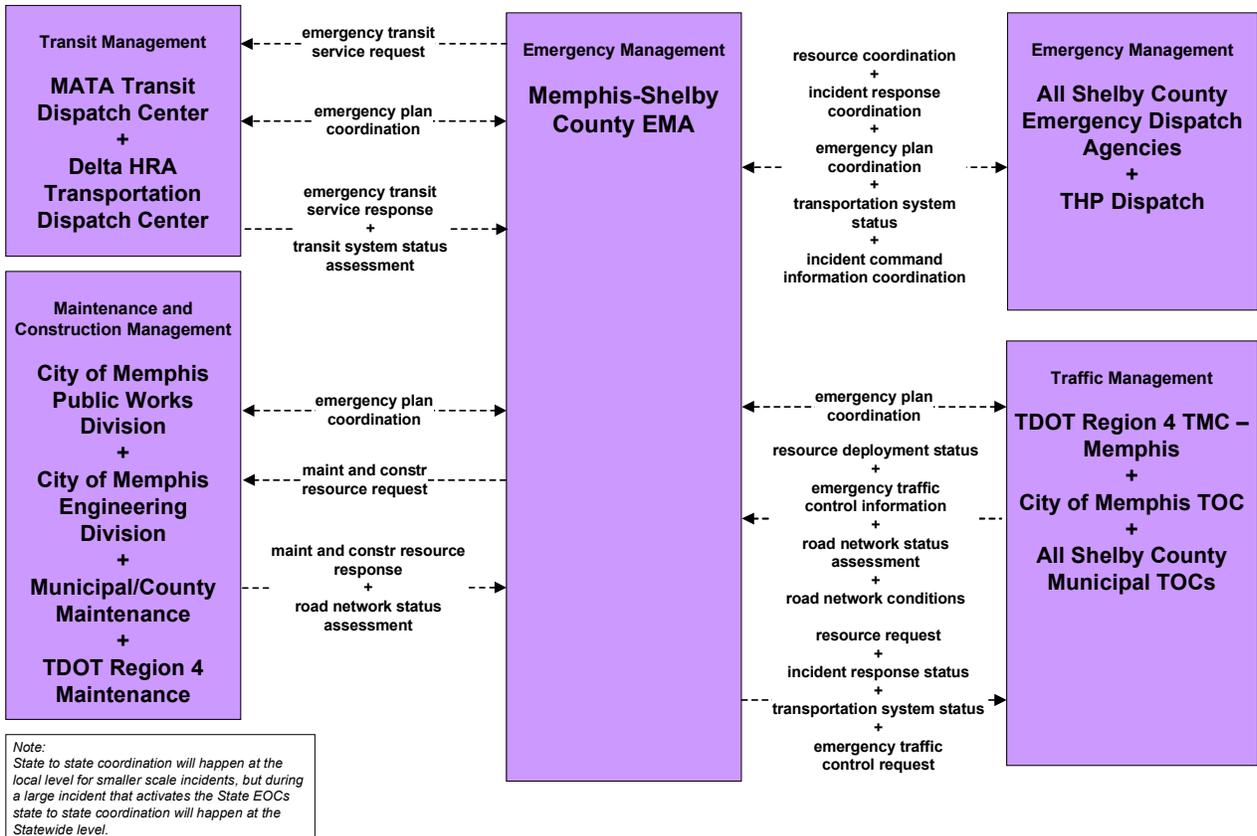


*Note:
Connection between TEMA and local EMAs is existing using TEMA's Web EOC*

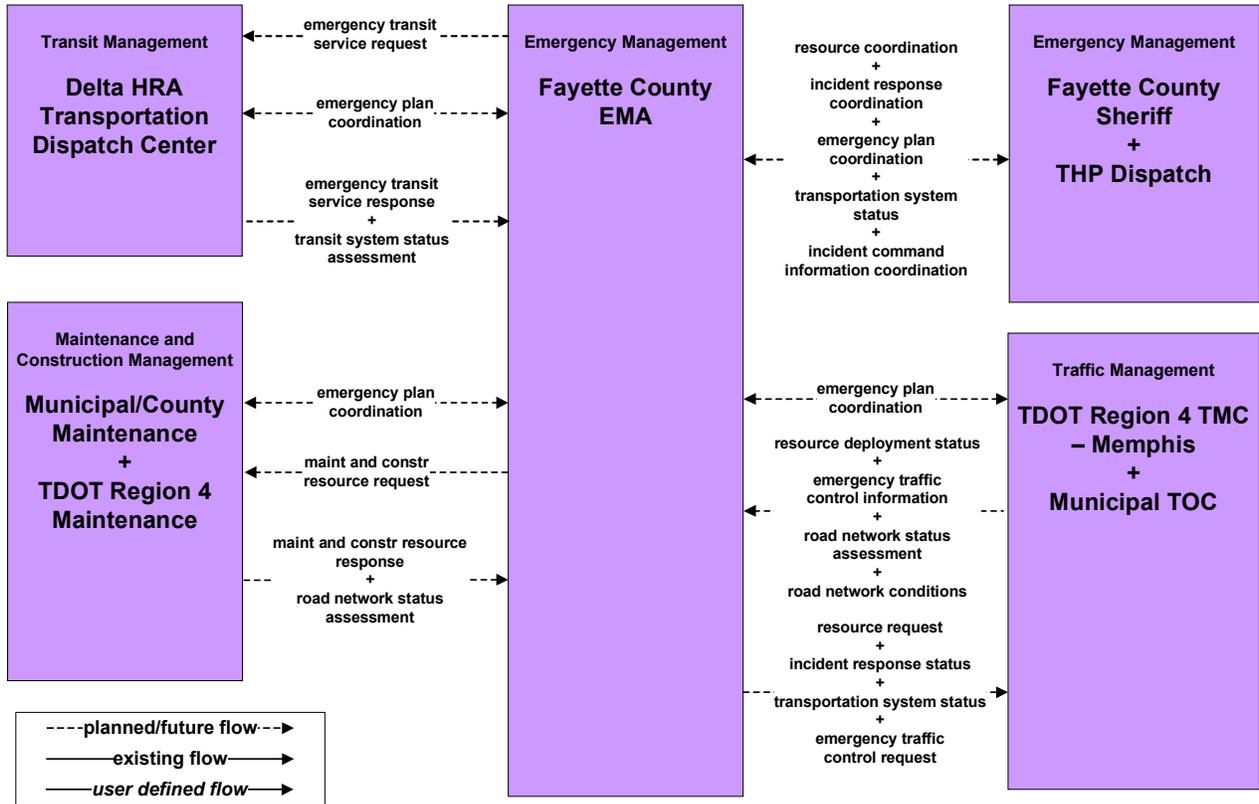
**EM08 – Disaster Response and Recovery
Mississippi EMA**



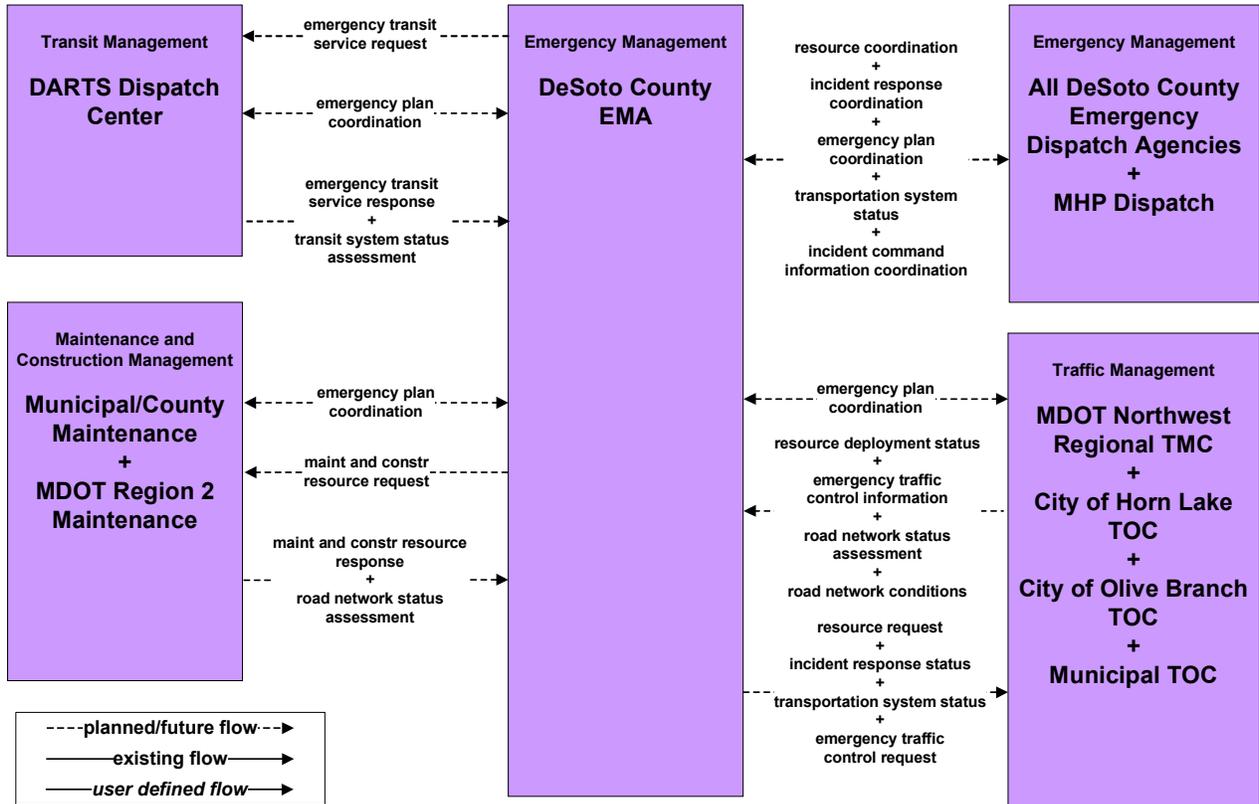
**EM08 – Disaster Response and Recovery
Memphis-Shelby County Emergency Management Agency**



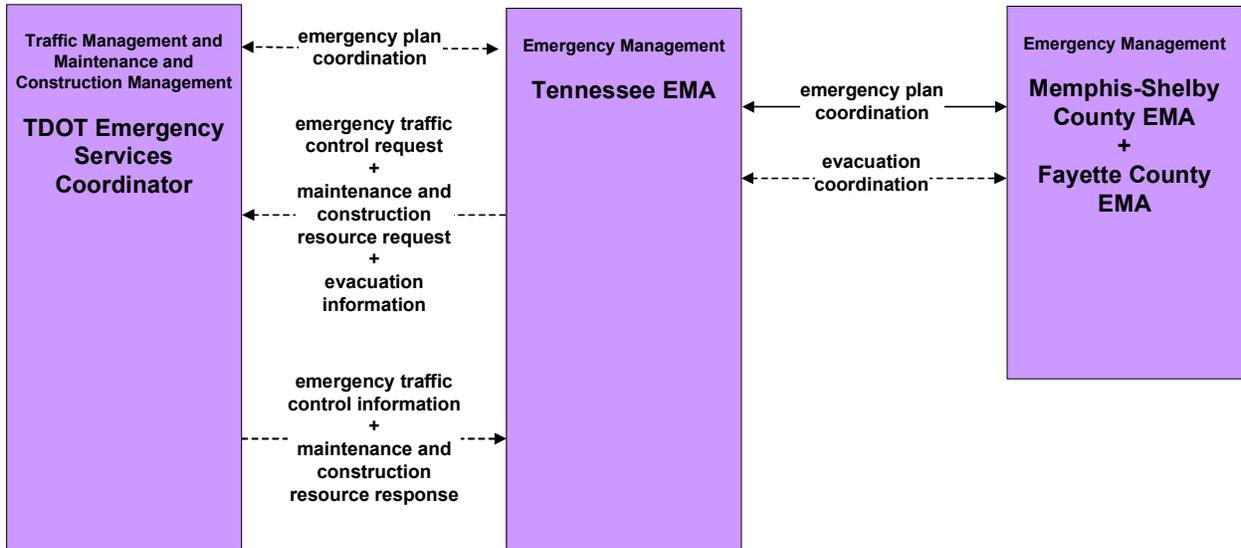
**EM08 – Disaster Response and Recovery
Fayette County Emergency Management Agency**



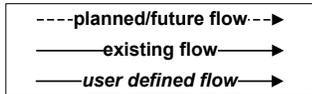
**EM08 – Disaster Response and Recovery
DeSoto County Emergency Management Agency**



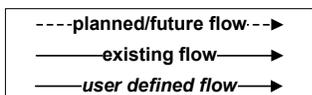
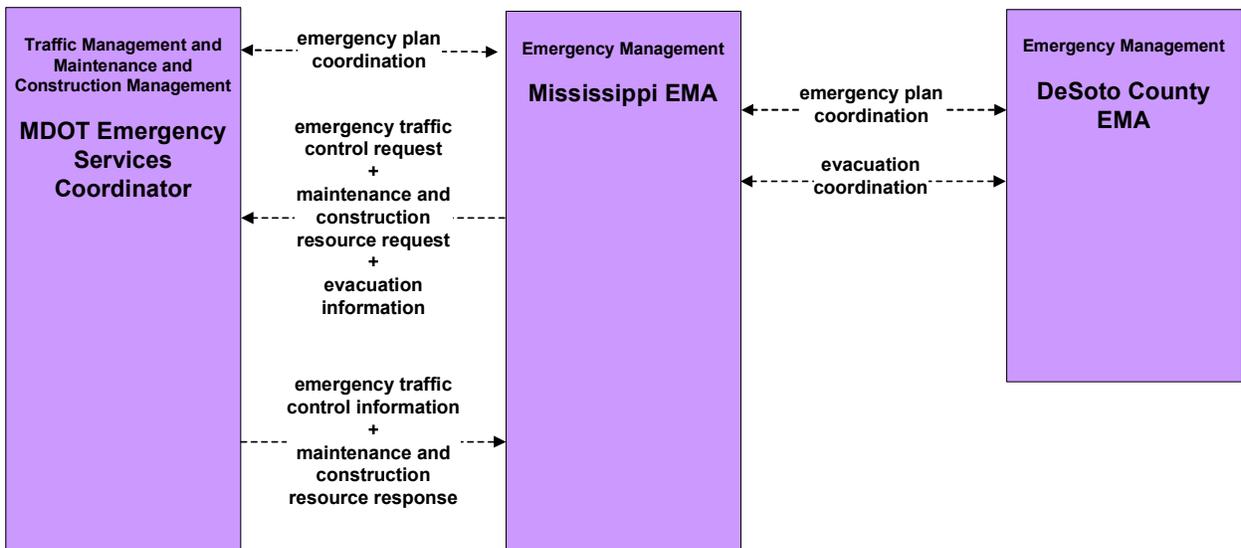
**EM09 – Evacuation and Reentry Management
Tennessee EMA**



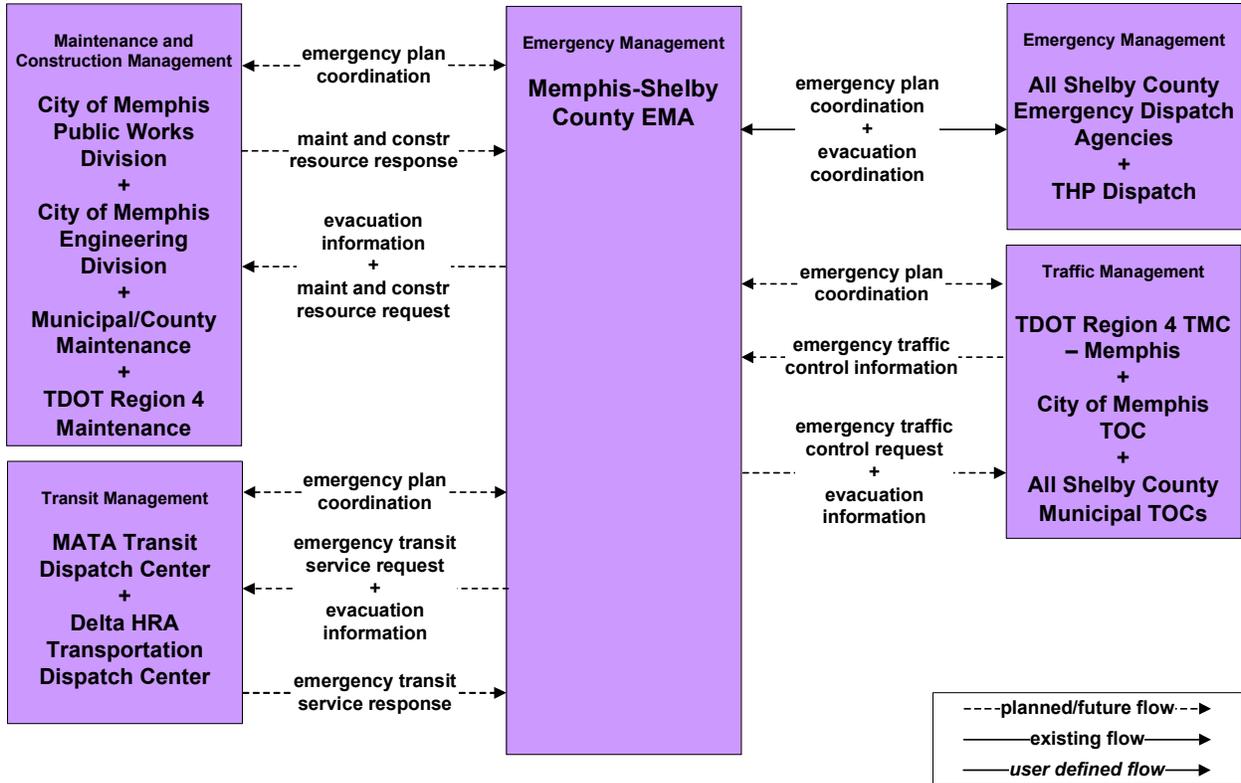
*Note:
Connection between TEMA and local EMAs is existing using TEMA's Web EOC*



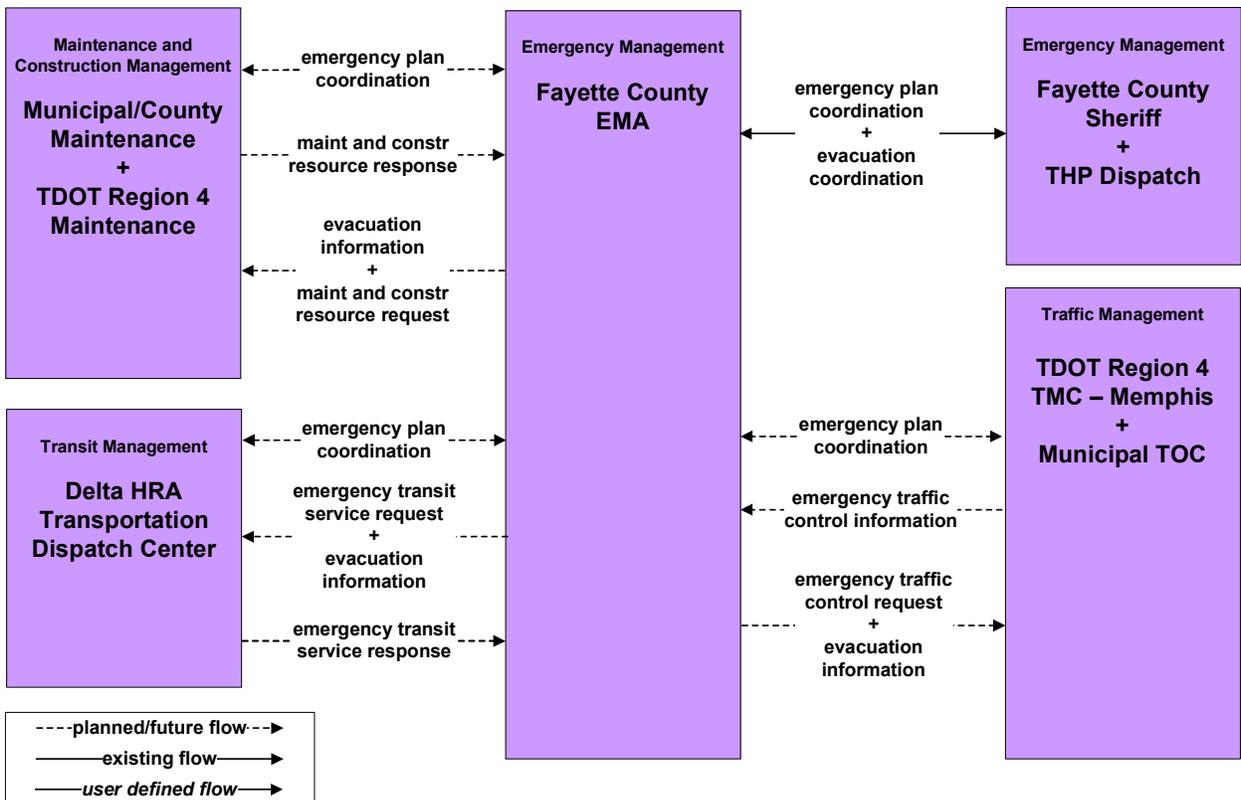
**EM09 – Evacuation and Reentry Management
Mississippi EMA**



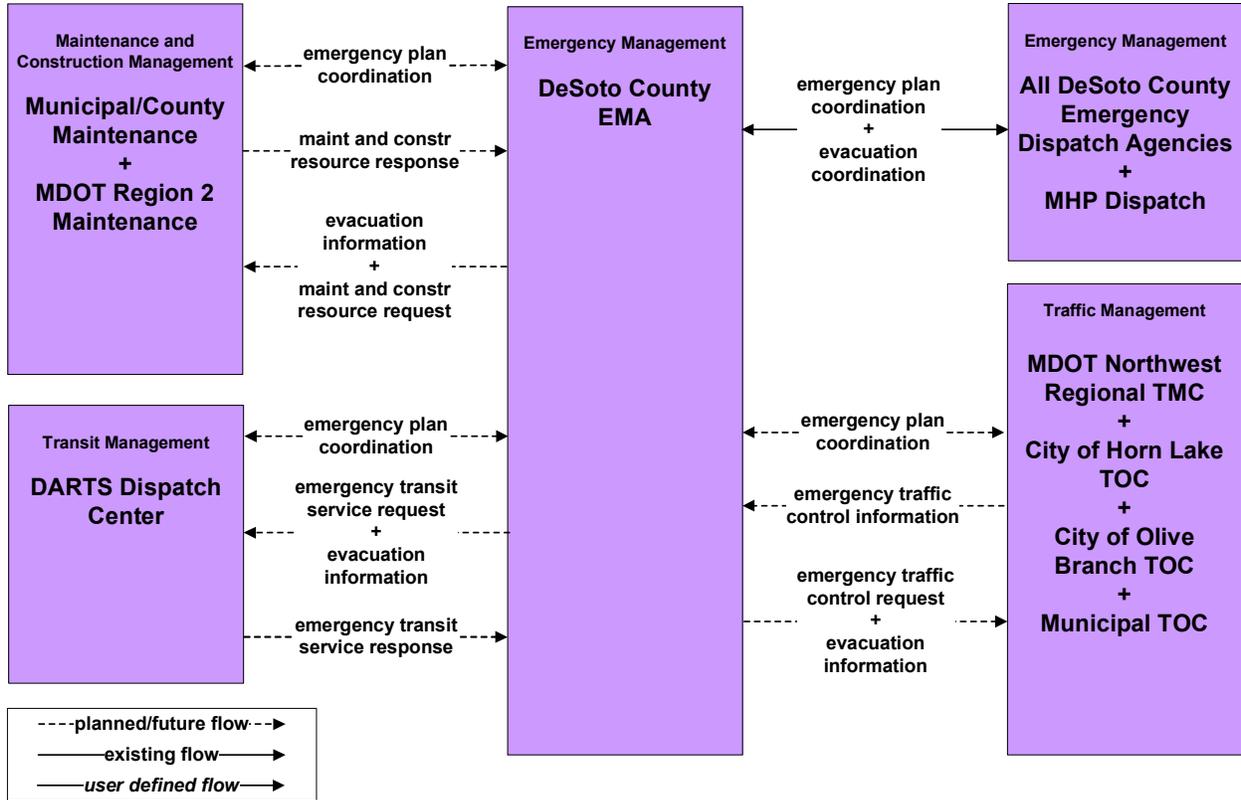
**EM09 – Evacuation and Reentry Management
Memphis-Shelby County Emergency Management Agency**



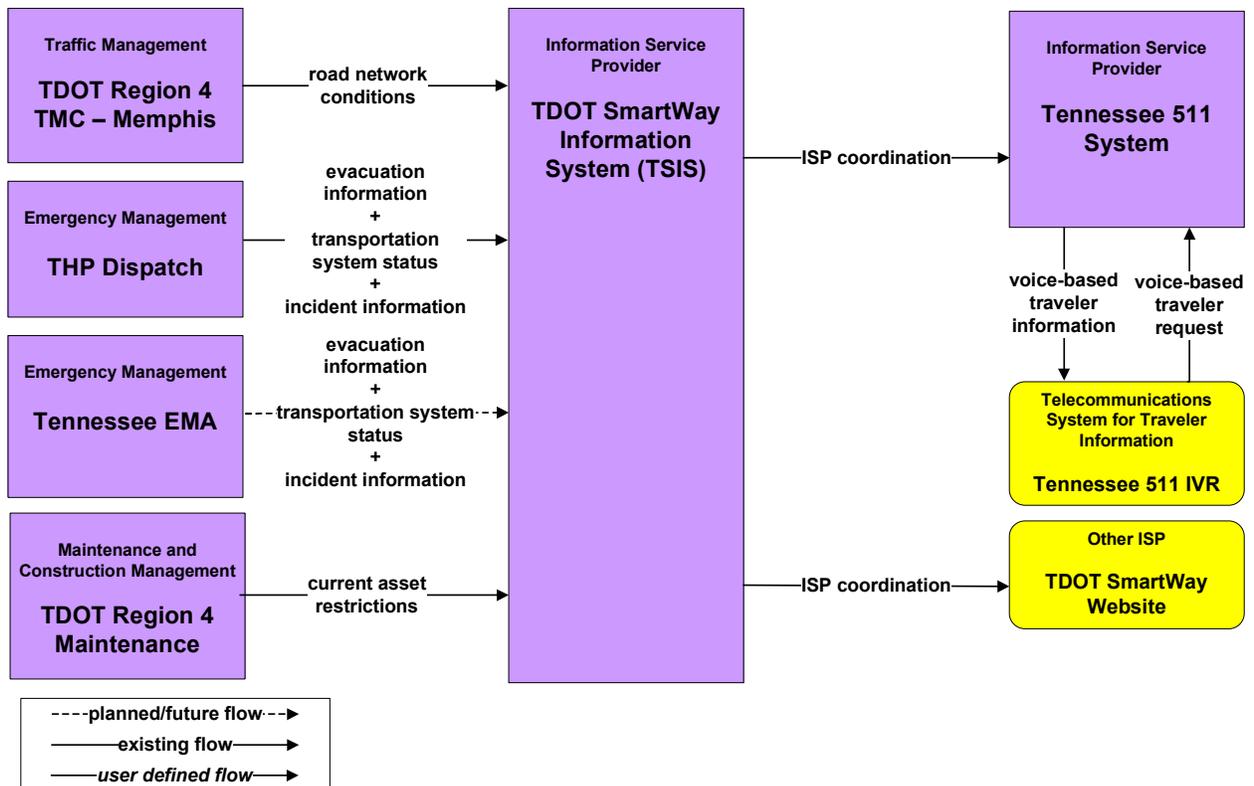
**EM09 – Evacuation and Reentry Management
Fayette County Emergency Management Agency**



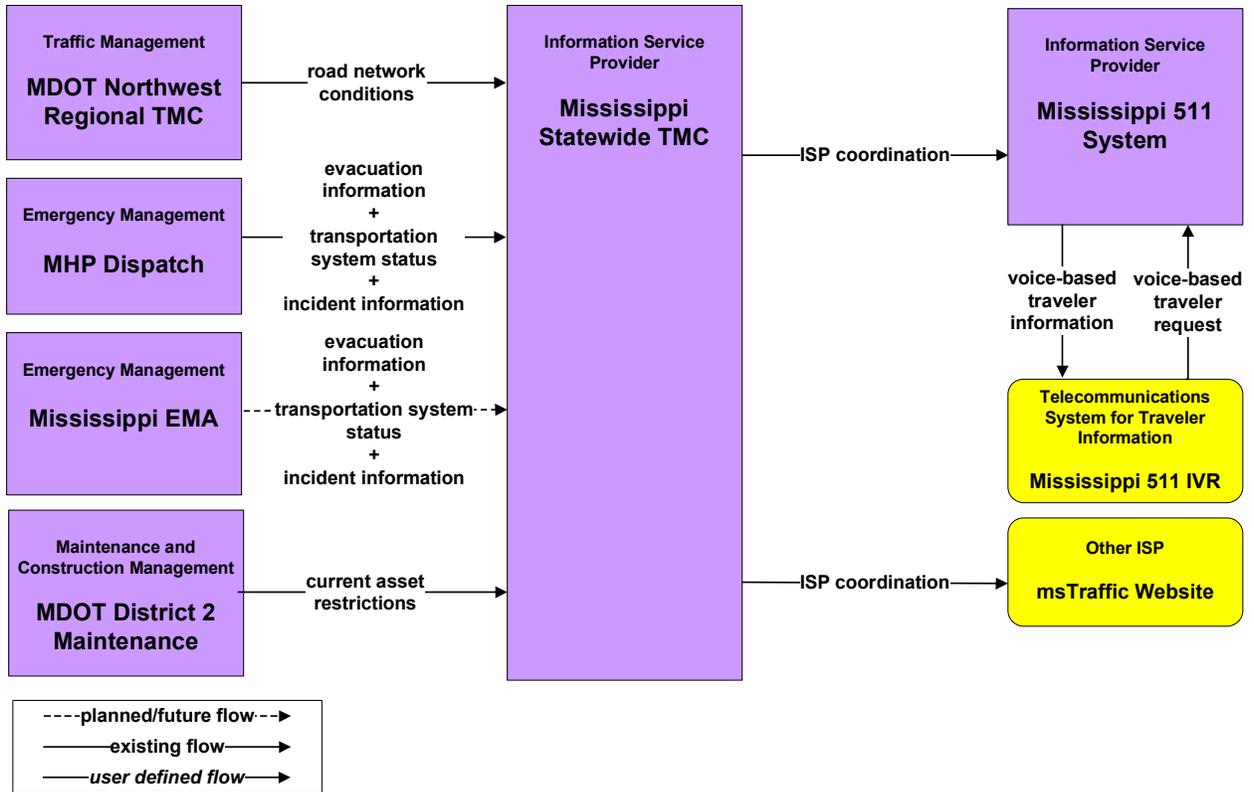
**EM09 – Evacuation and Reentry Management
DeSoto County Emergency Management Agency**



**EM10 – Disaster Traveler Information
Tennessee 511 and TSIS**

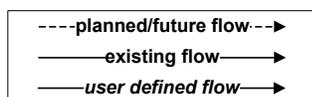
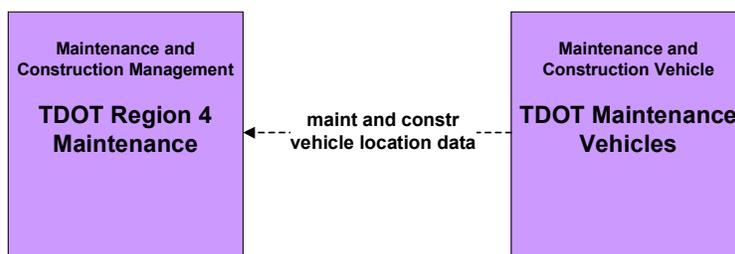


**EM10 – Disaster Traveler Information
MDOT**

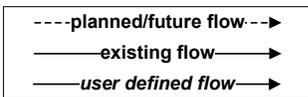
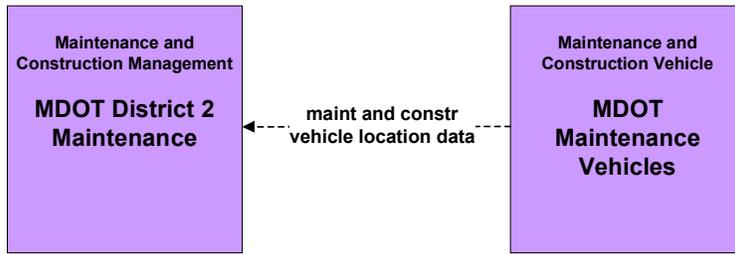


Maintenance and Construction Management

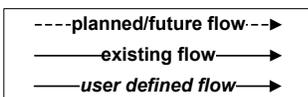
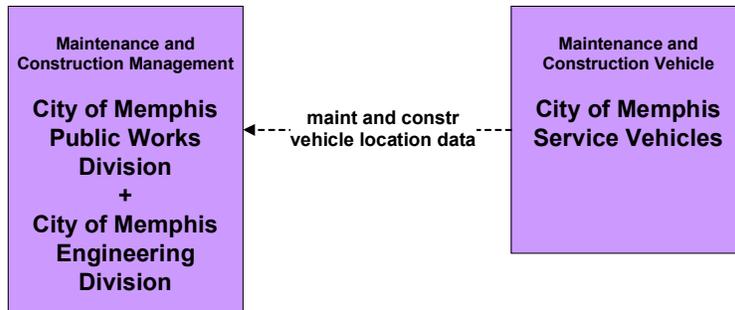
MC01 – Maintenance and Construction Vehicle and Equipment Tracking
TDOT Region 4 Maintenance



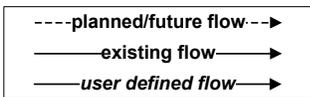
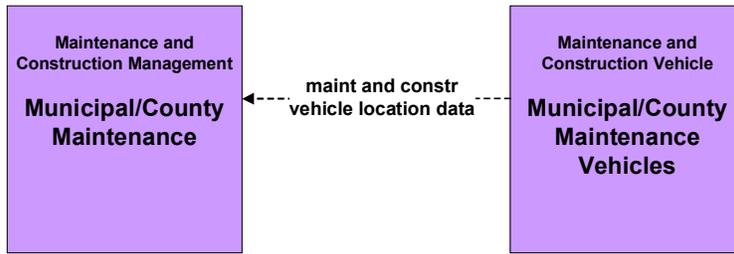
**MC01 – Maintenance and Construction Vehicle and Equipment Tracking
MDOT Region 2 Maintenance**



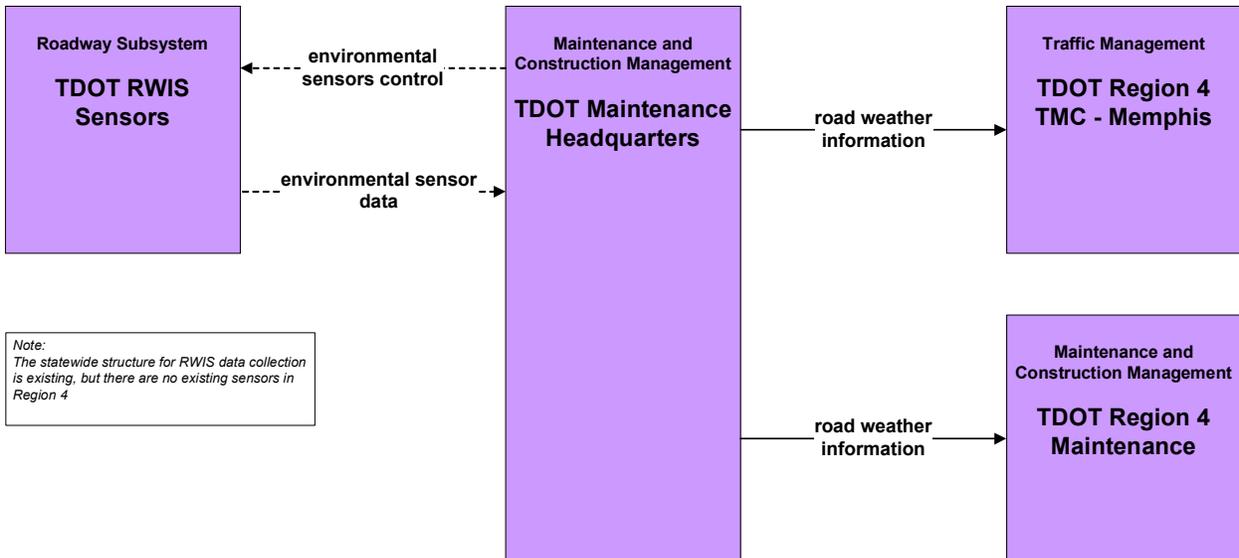
**MC01 – Maintenance and Construction Vehicle and Equipment Tracking
City of Memphis**



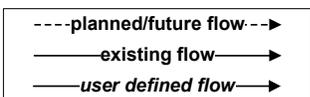
**MC01 – Maintenance and Construction Vehicle and Equipment Tracking
Municipal/County**



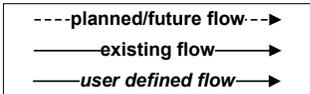
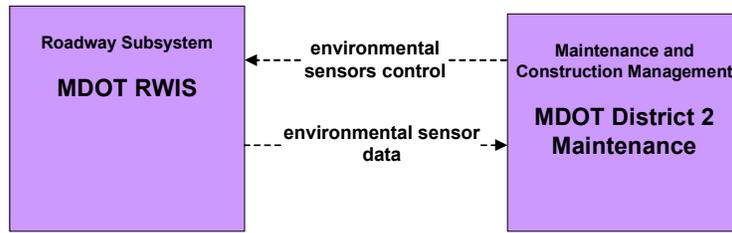
**MC03 – Road Weather Data Collection
TDOT RWIS**



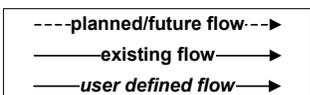
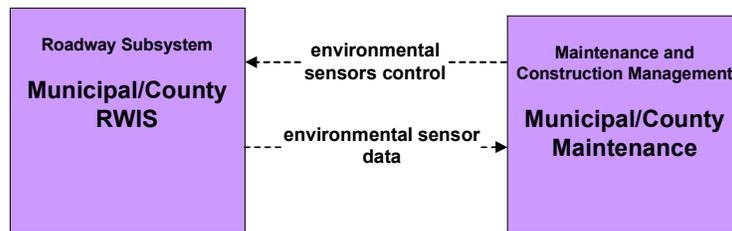
*Note:
The statewide structure for RWIS data collection is existing, but there are no existing sensors in Region 4*



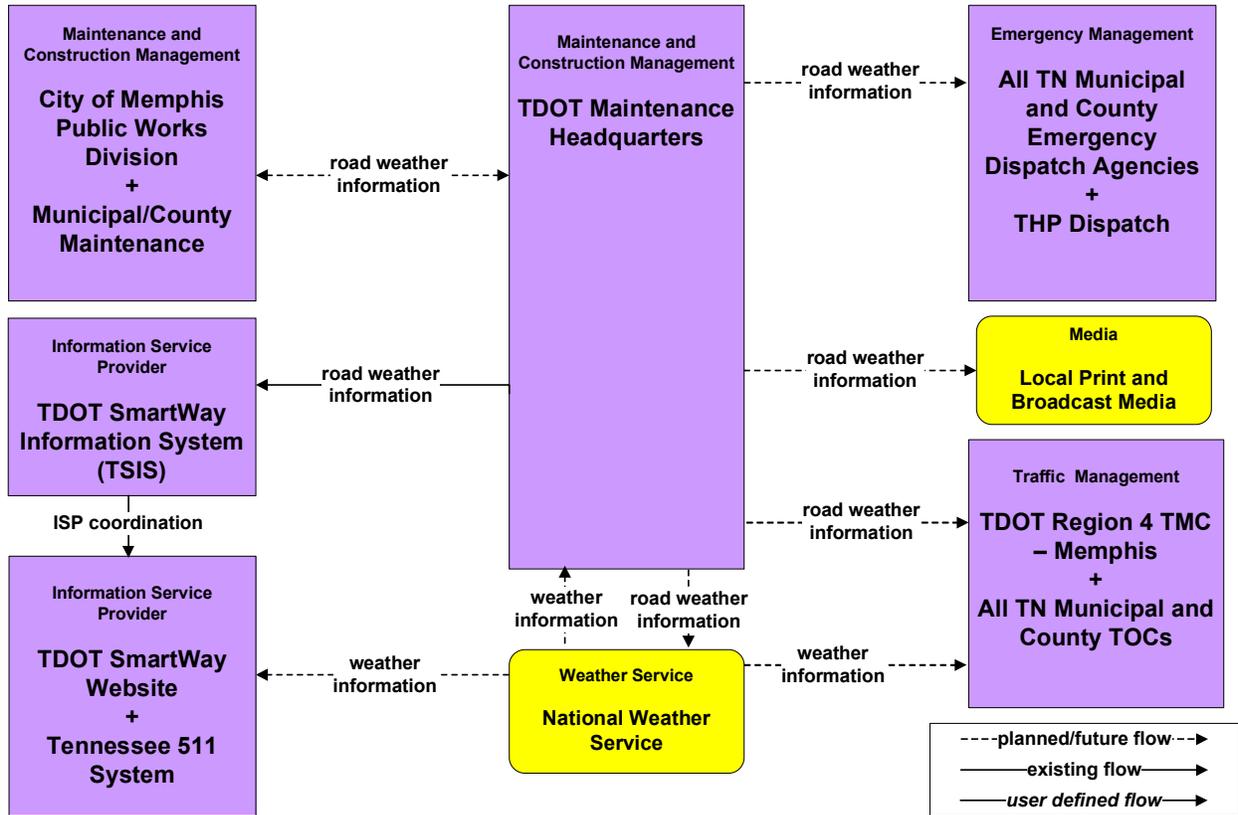
MC03 – Road Weather Data Collection
MDOT



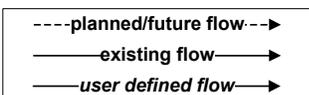
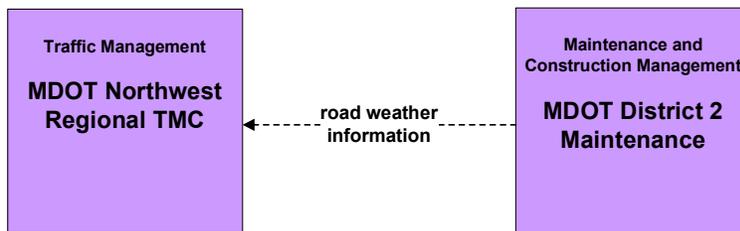
MC03 – Road Weather Data Collection
Municipal/County



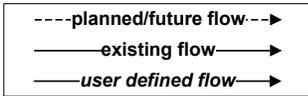
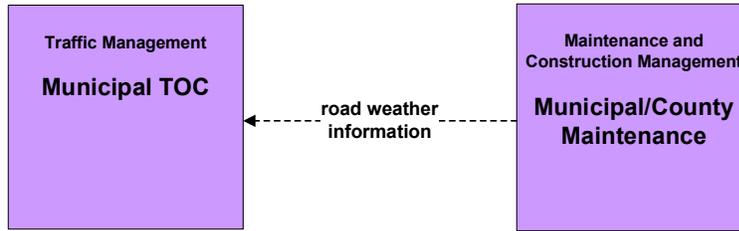
**MC04 – Weather Information Processing and Distribution
TDOT Maintenance Headquarters**



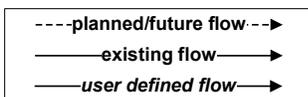
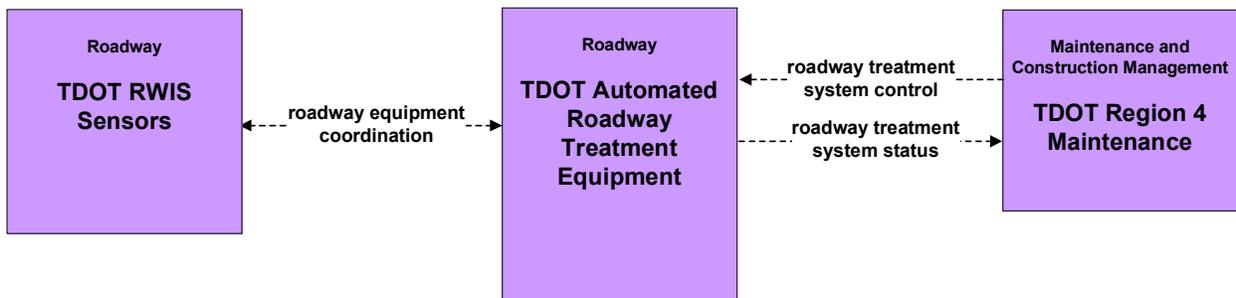
**MC04 – Weather Information Processing and Distribution
MDOT**



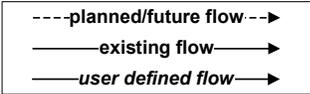
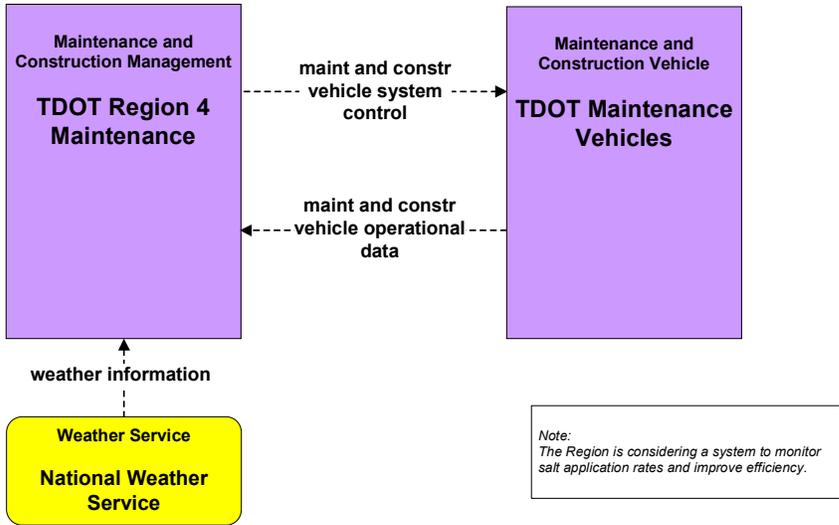
**MC04 – Weather Information Processing and Distribution
Municipal**



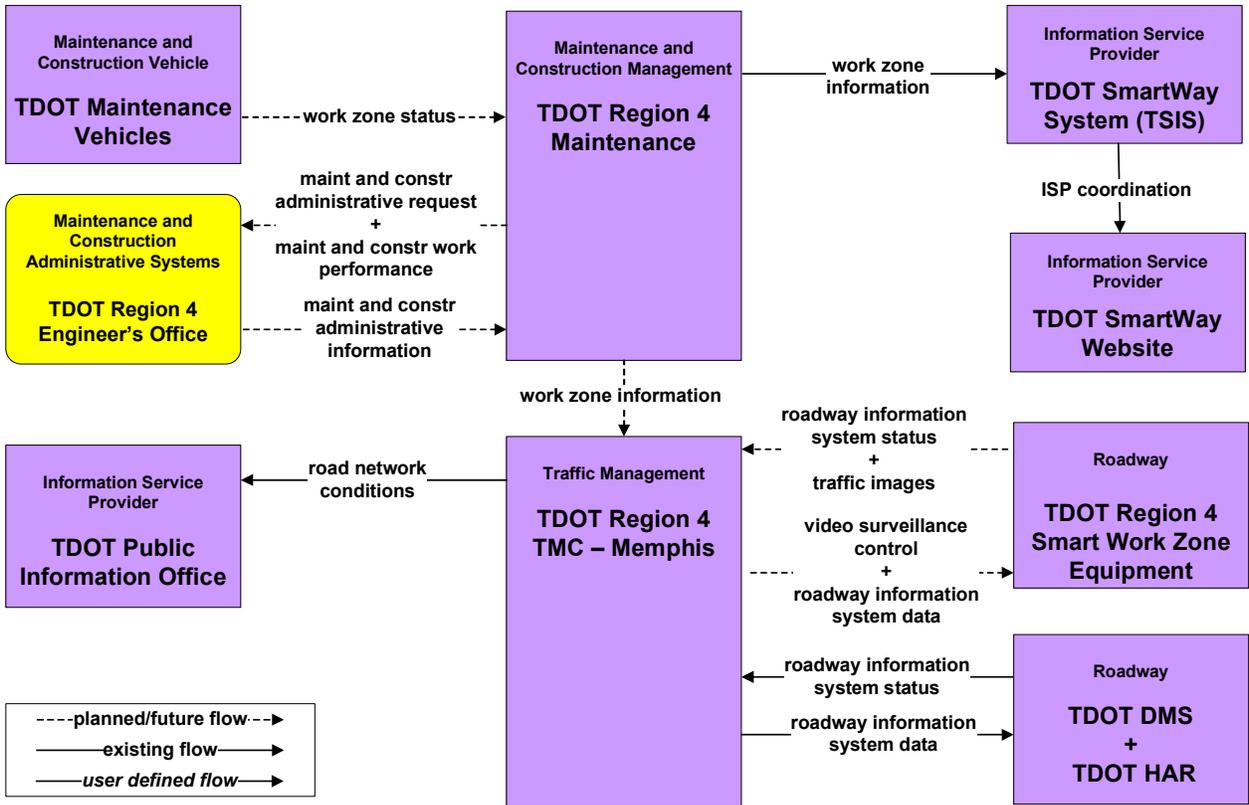
**MC05 – Roadway Automated Treatment
TDOT Region 4 Maintenance**



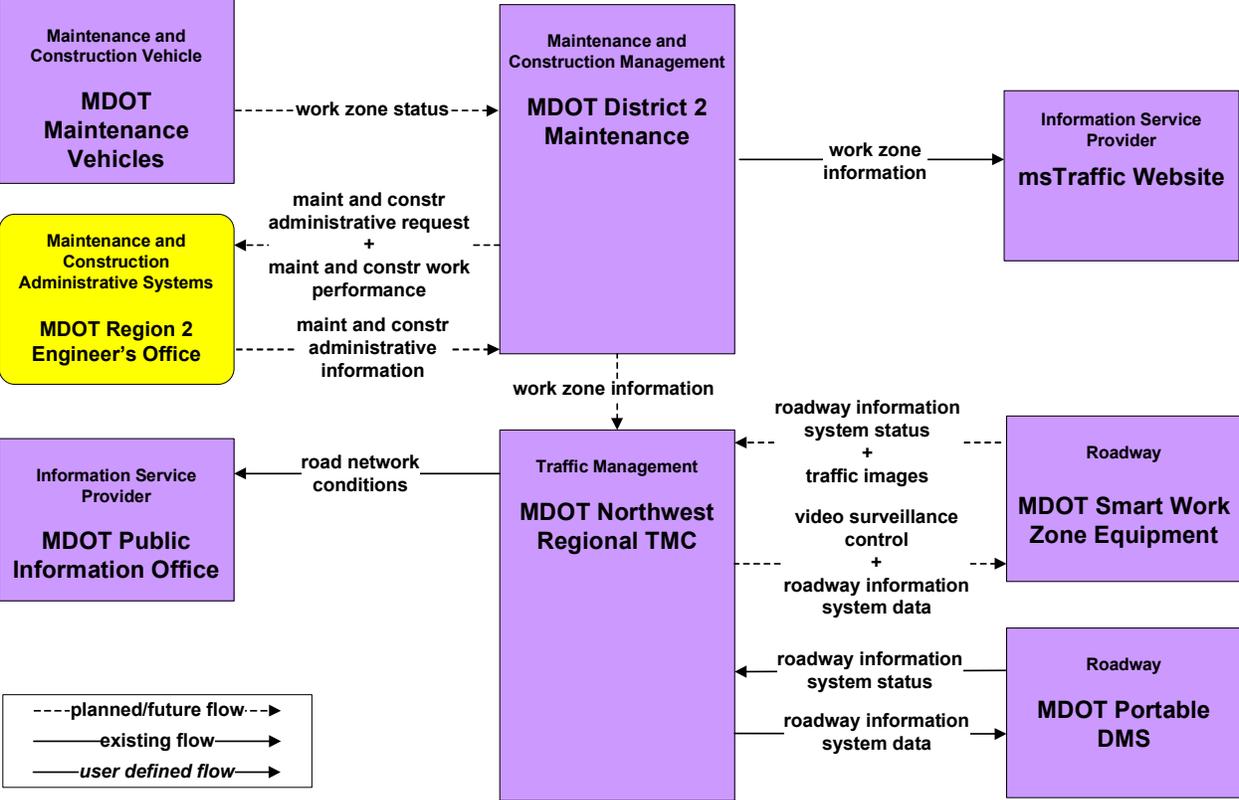
**MC06 – Winter Maintenance
TDOT Region 4 Maintenance**



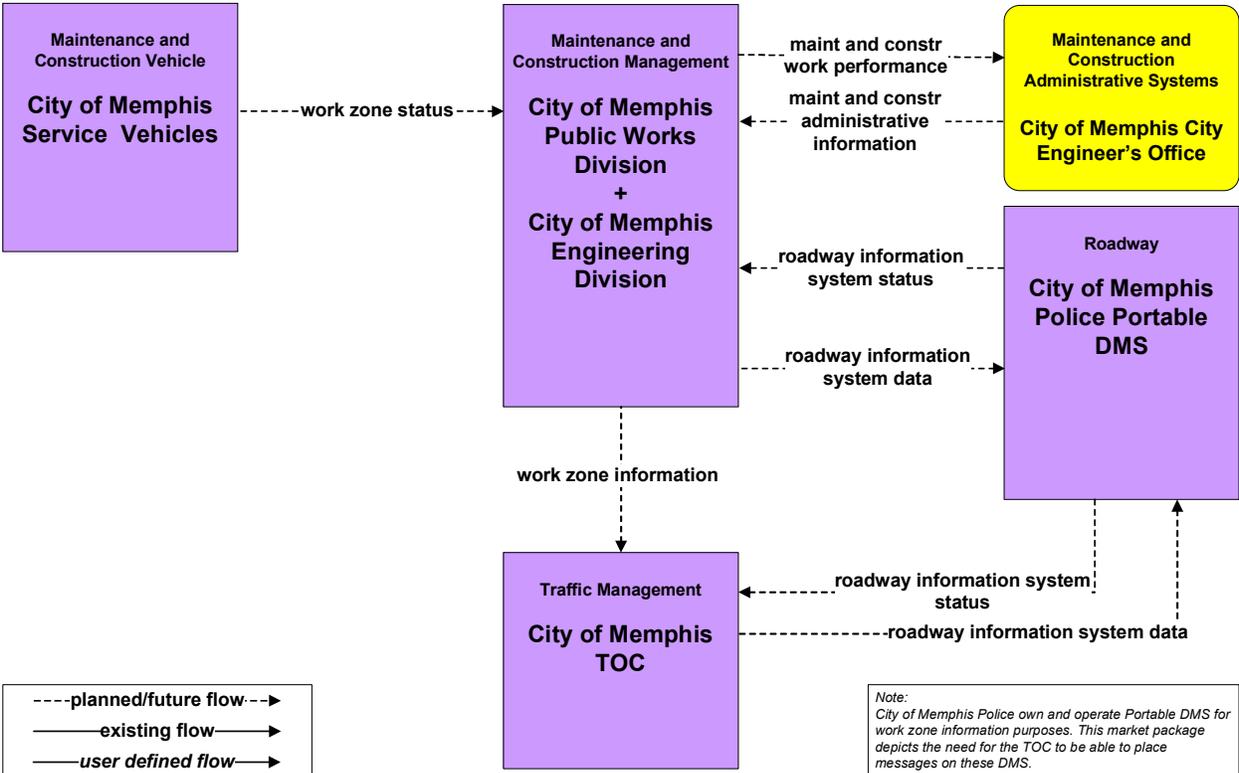
**MC08 – Work Zone Management
TDOT Region 4 Maintenance**



**MC08 – Work Zone Management
MDOT District 2 Maintenance**

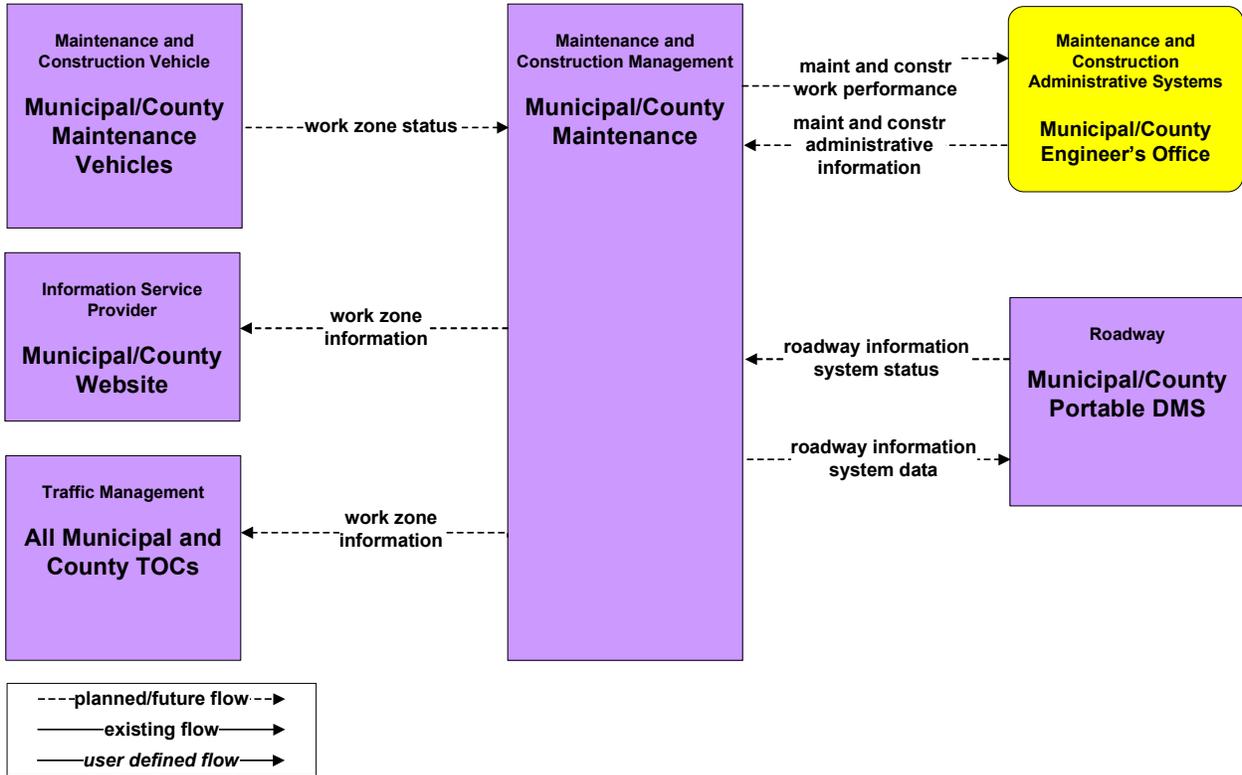


**MC08 – Work Zone Management
City of Memphis**

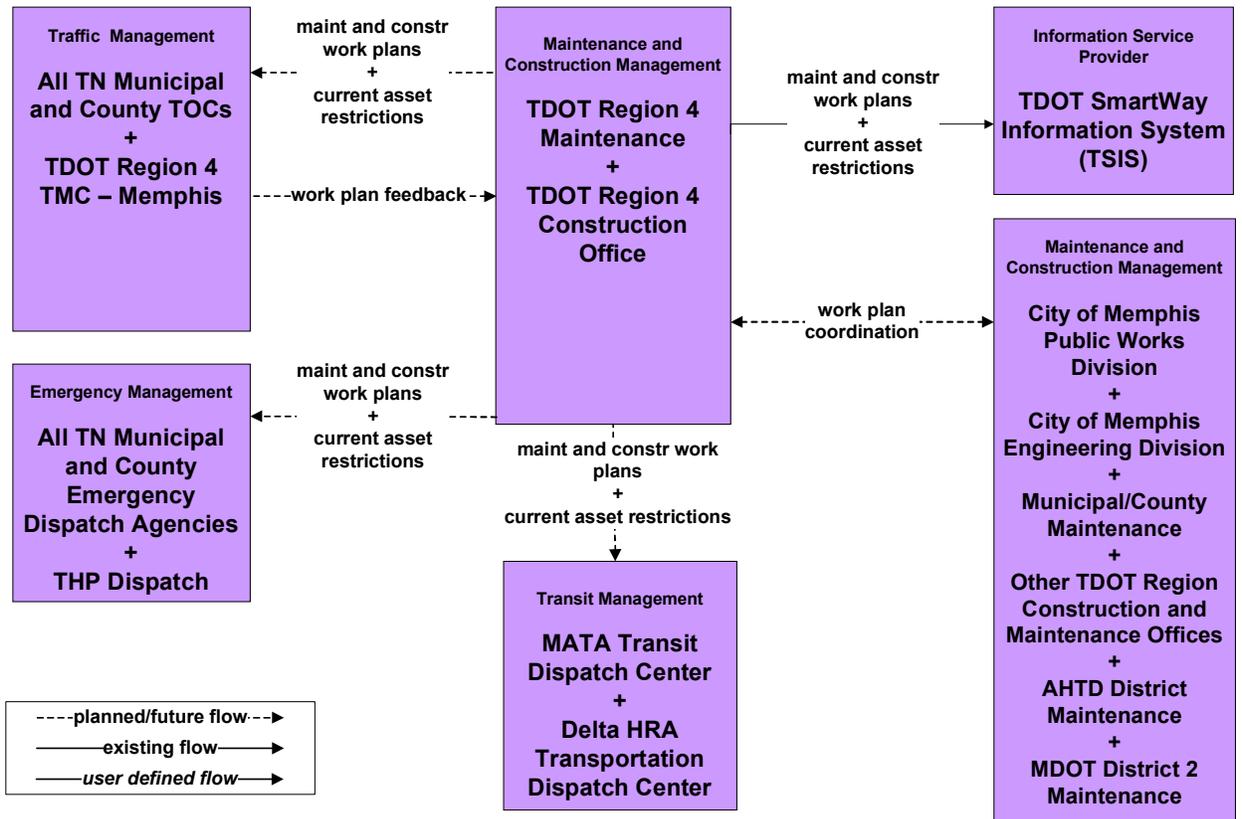


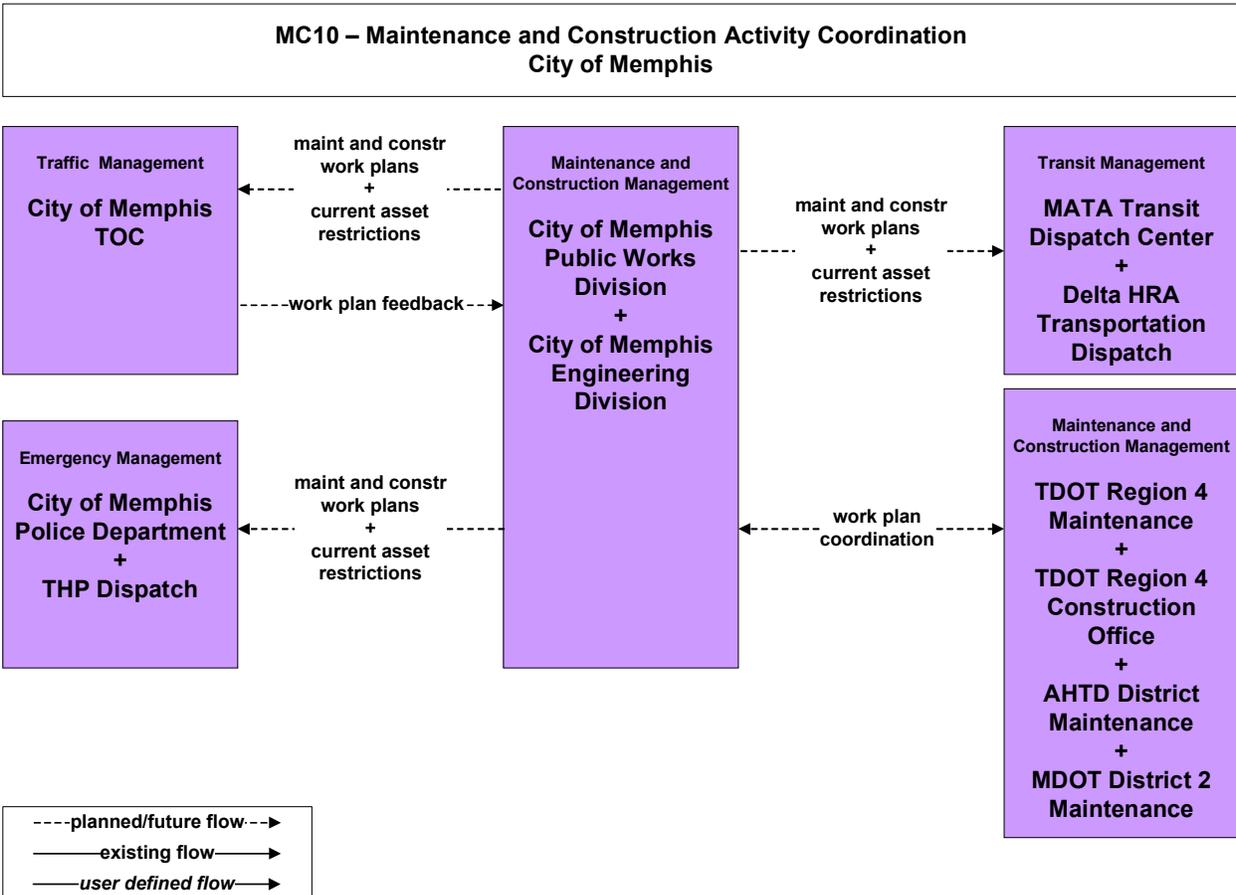
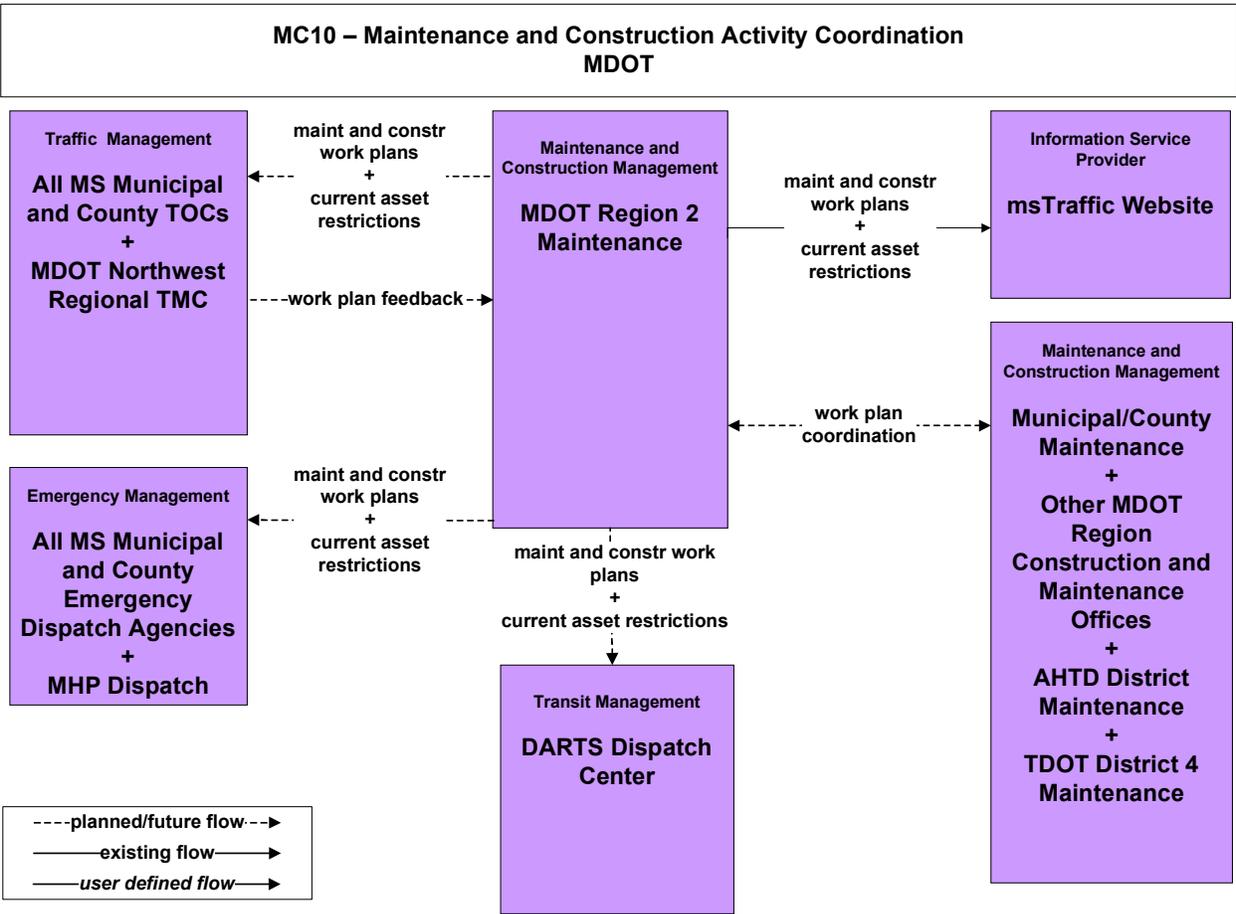
*Note:
City of Memphis Police own and operate Portable DMS for work zone information purposes. This market package depicts the need for the TOC to be able to place messages on these DMS.*

**MC08 – Work Zone Management
Municipal/County**

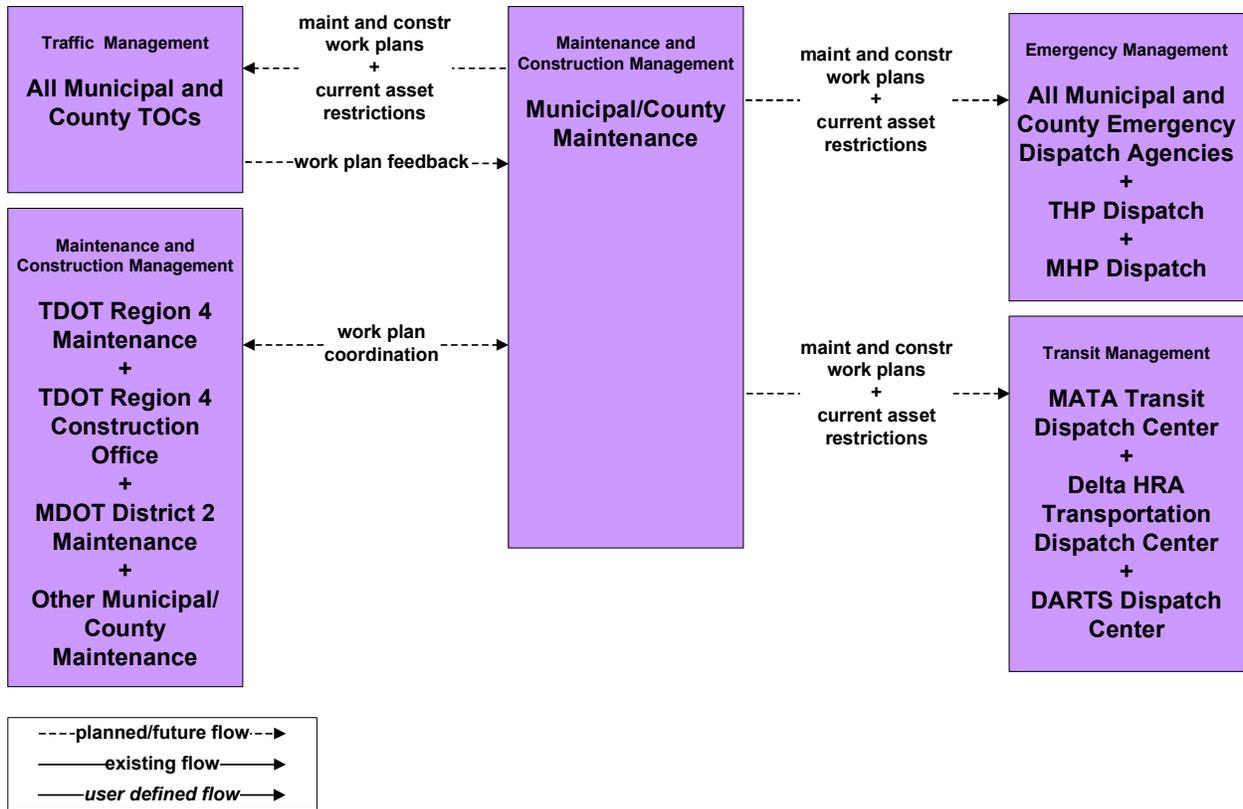


**MC10 – Maintenance and Construction Activity Coordination
TDOT**

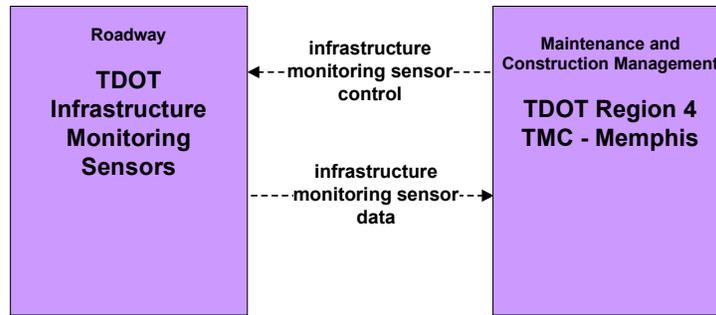




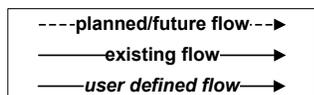
**MC10 – Maintenance and Construction Activity Coordination
Municipal/County**



**MC12 – Infrastructure Monitoring
TDOT**

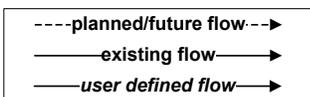
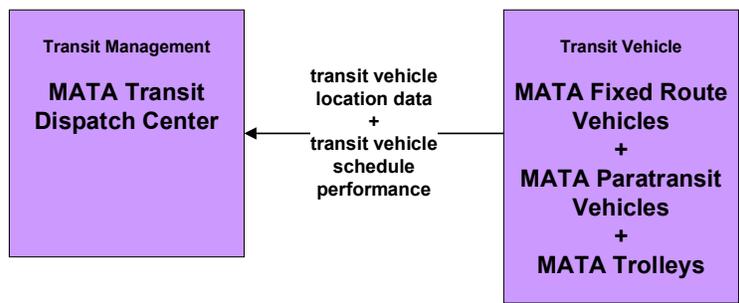


*Note:
Infrastructure monitoring data is transmitted from the TMC to the University of Memphis Center for Earthquake Research and Information.*

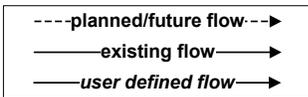
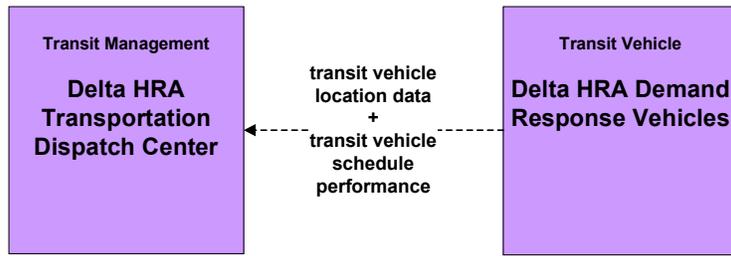


Advanced Public Transportation Systems

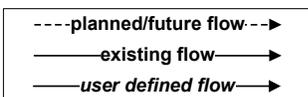
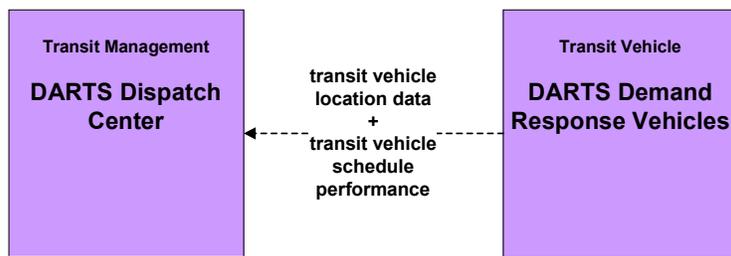
APTS01 – Transit Vehicle Tracking
Memphis Area Transit Authority



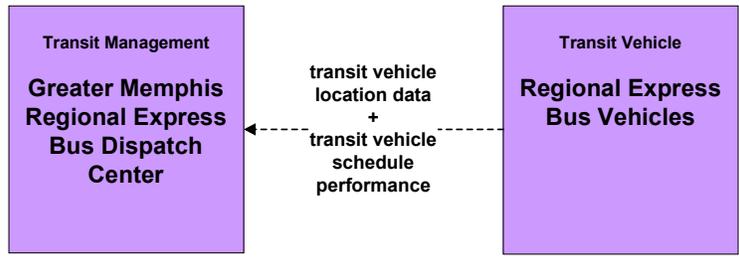
**APTS01 – Transit Vehicle Tracking
Delta HRA Transportation**



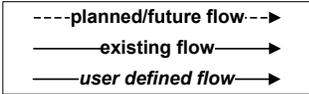
**APTS01 – Transit Vehicle Tracking
DARTS**



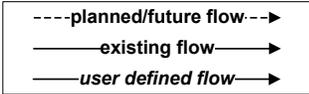
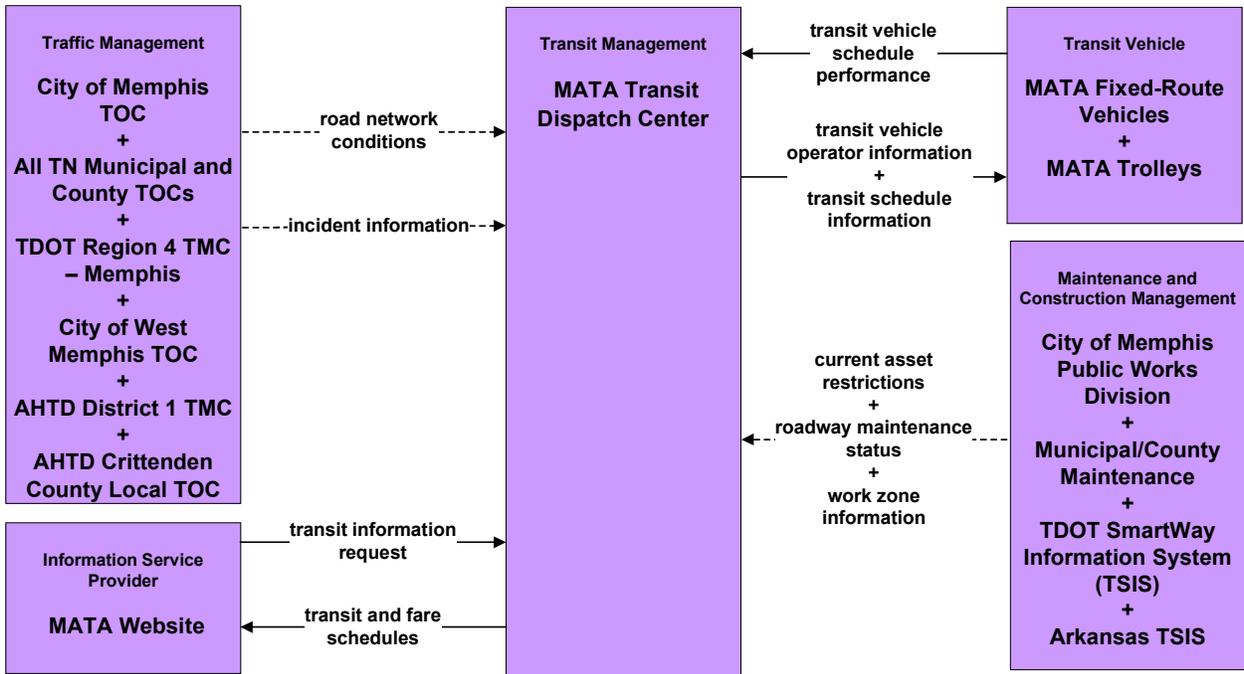
**APTS01 – Transit Vehicle Tracking
Greater Memphis Regional Express Bus System**



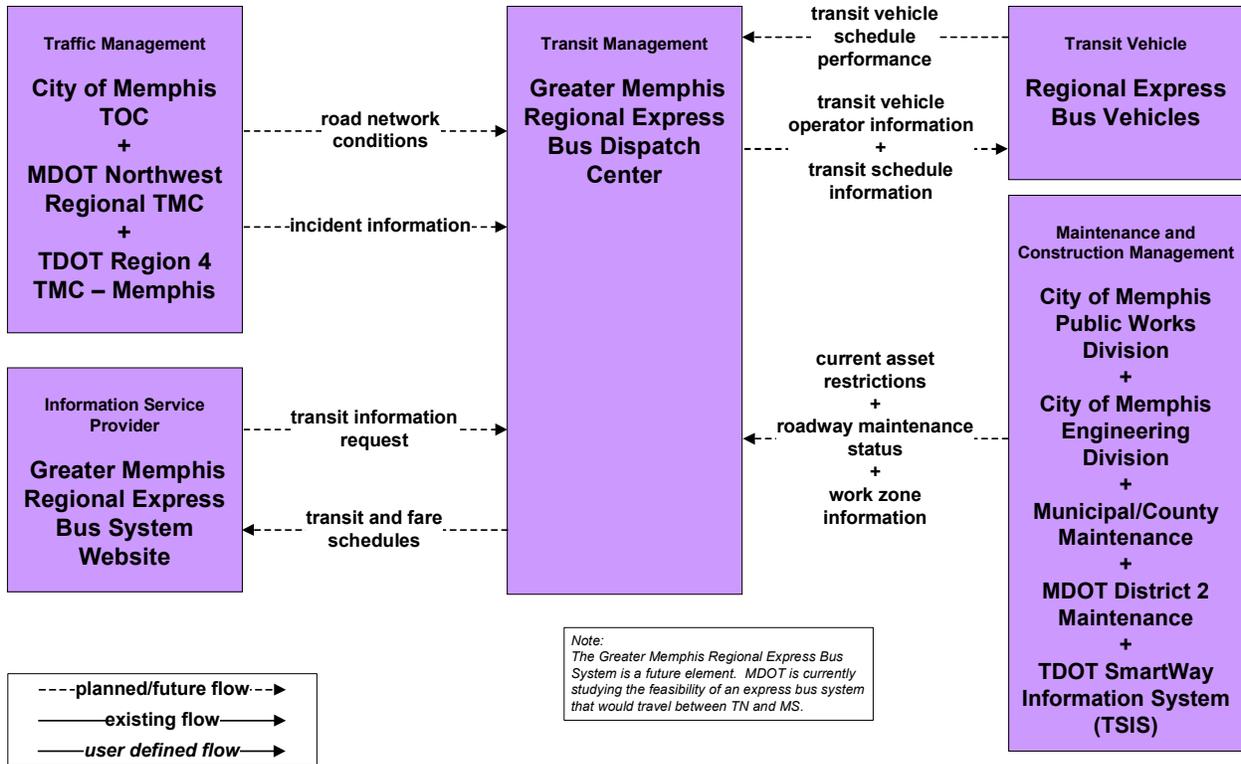
*Note:
The Greater Memphis Regional Express Bus System is a future element. MDOT is currently studying the feasibility of an express bus system that would travel between TN and MS.*



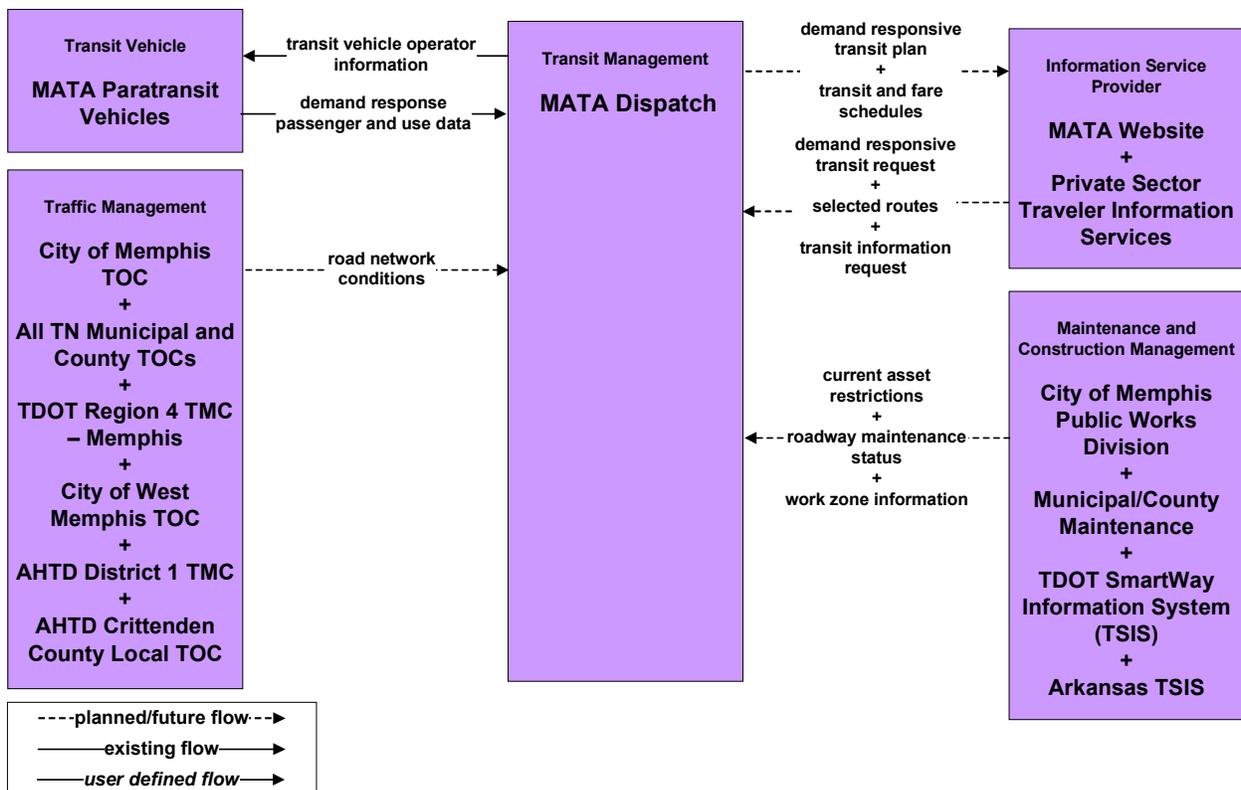
**APTS02 – Transit Fixed-Route Operations
Memphis Area Transit Authority**



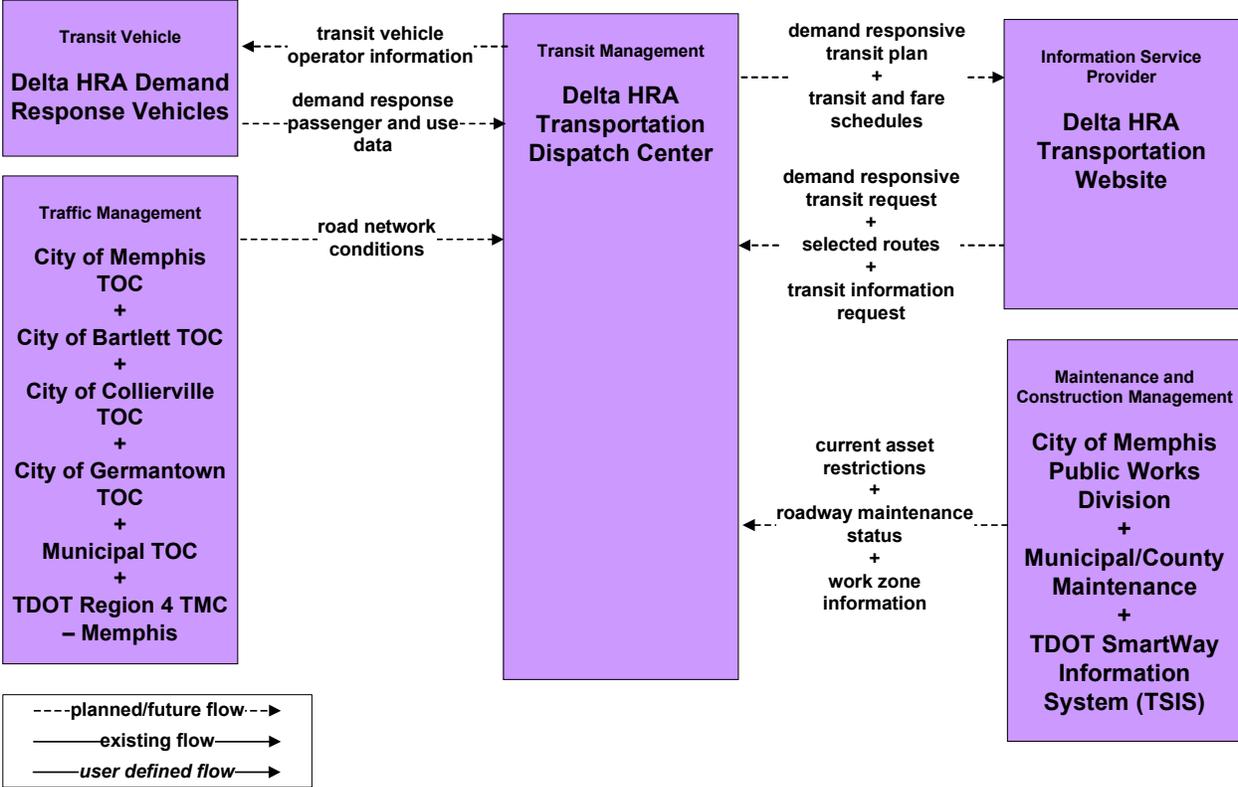
**APTS02 – Transit Fixed-Route Operations
Greater Memphis Regional Express Bus System**



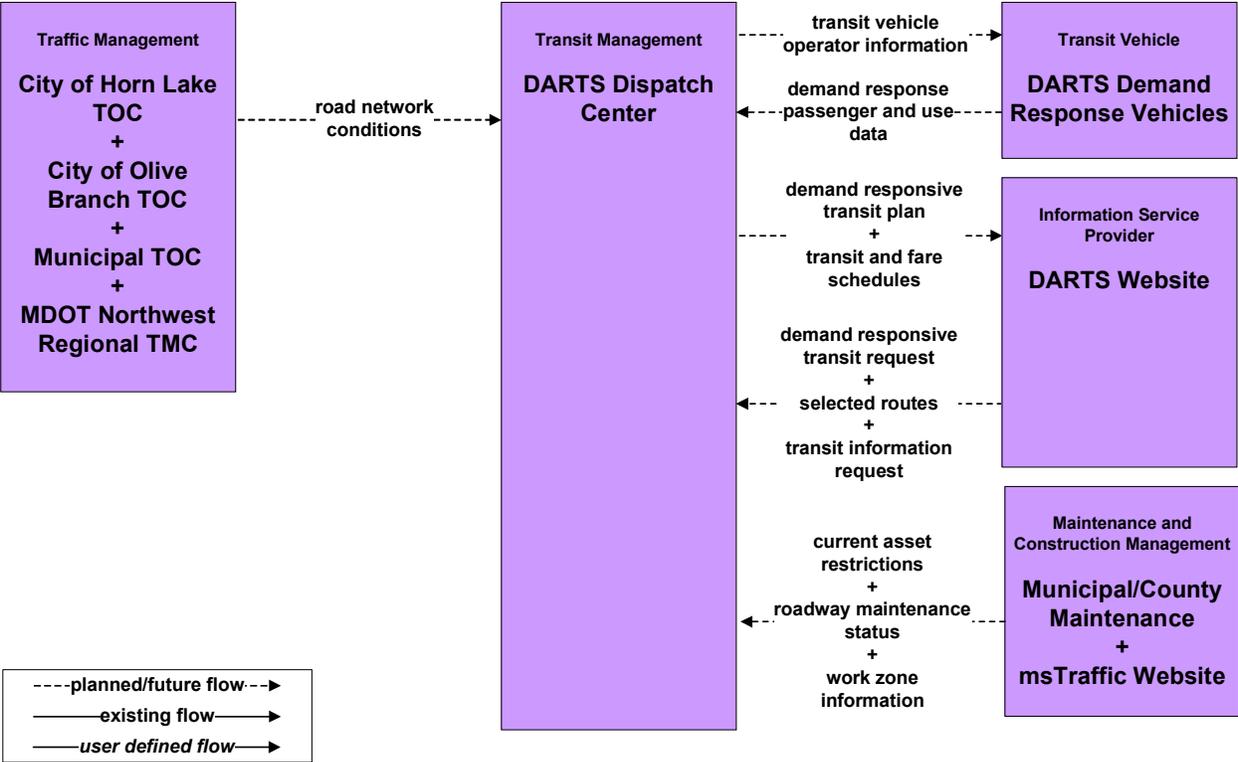
**APTS03 – Demand Response Transit Operations
MATA**



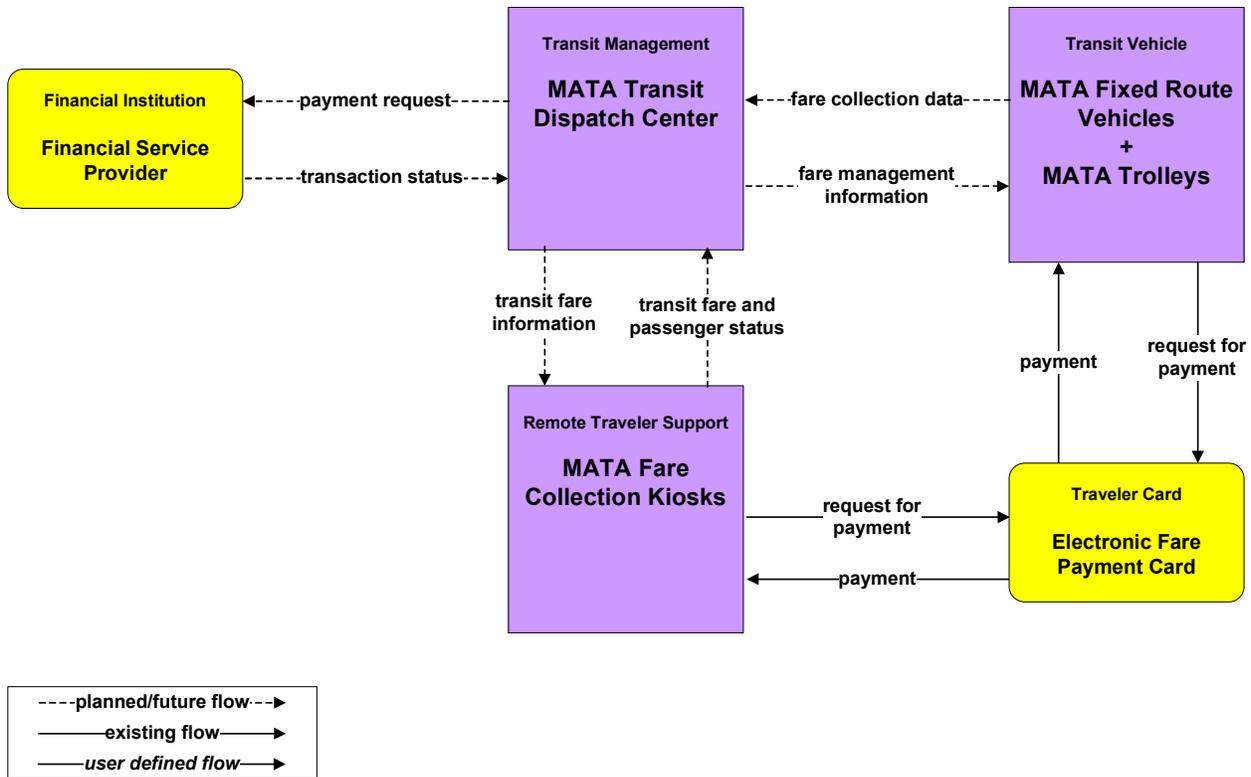
**APTS03 – Demand Response Transit Operations
Delta HRA Transportation**



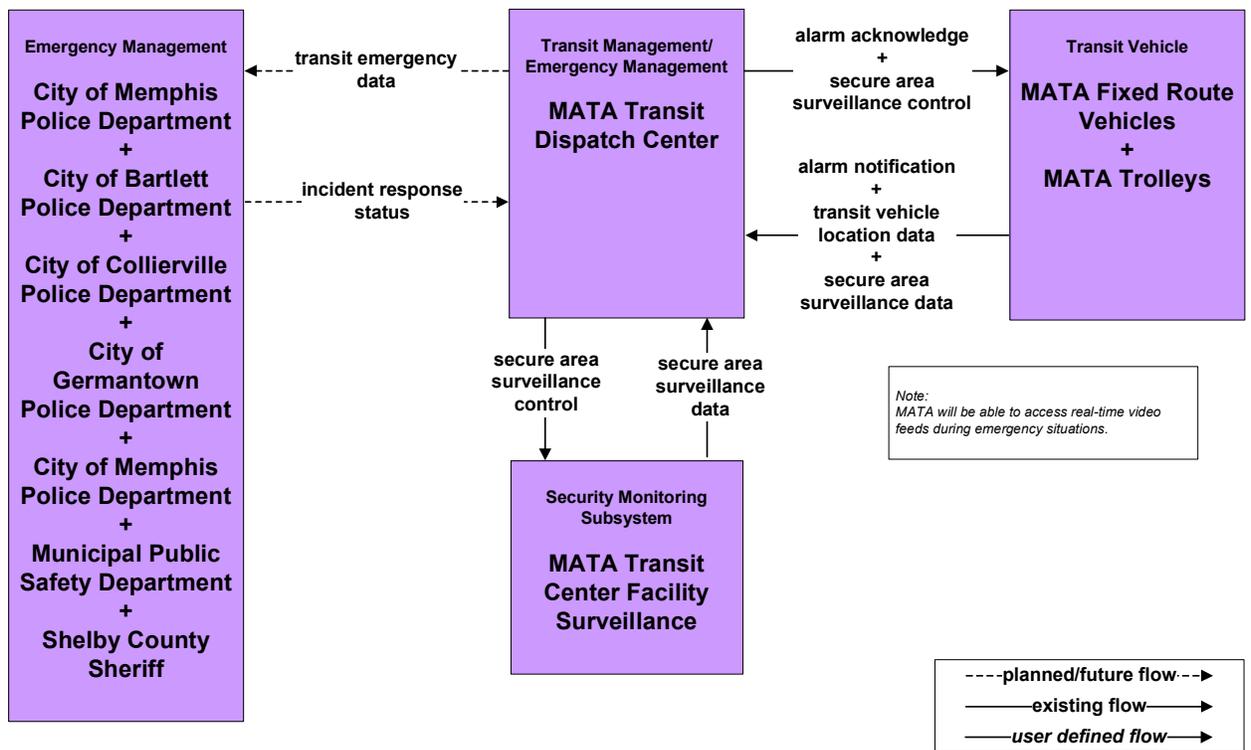
**APTS03 – Demand Response Transit Operations
DARTS**



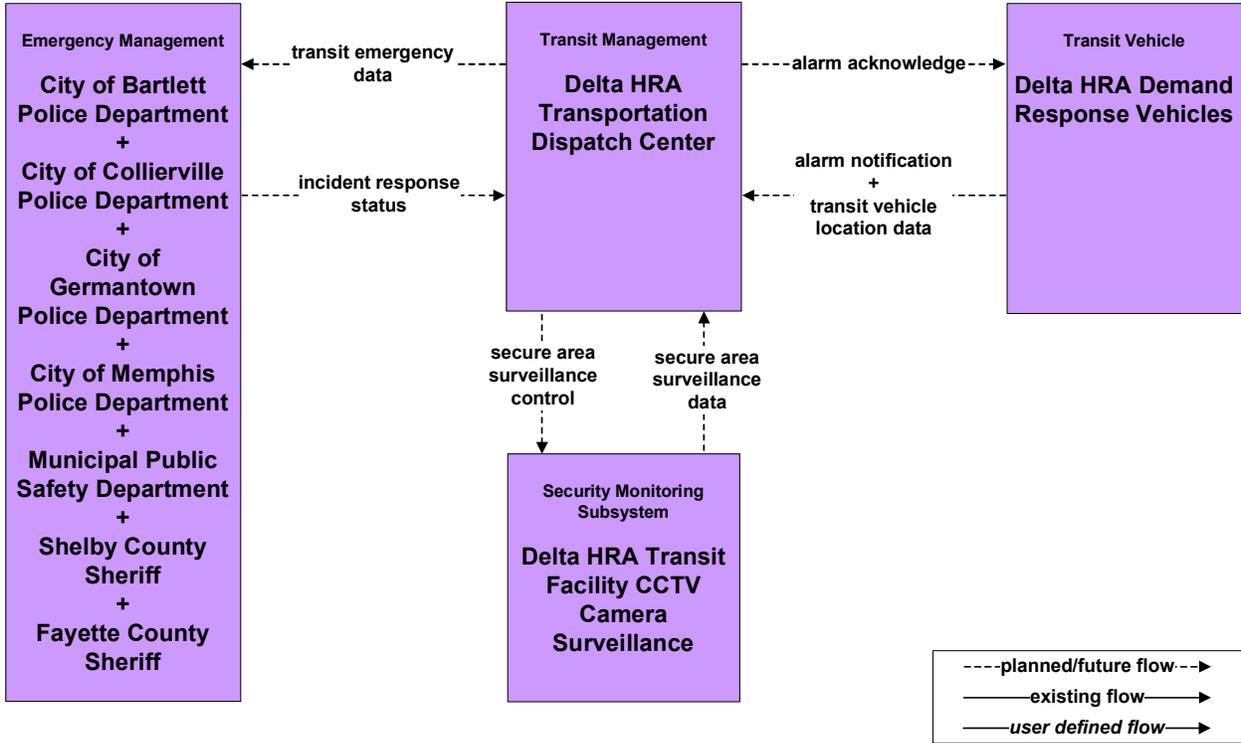
**APTS04 – Transit Fare Collection Management
Memphis Area Transit Authority**



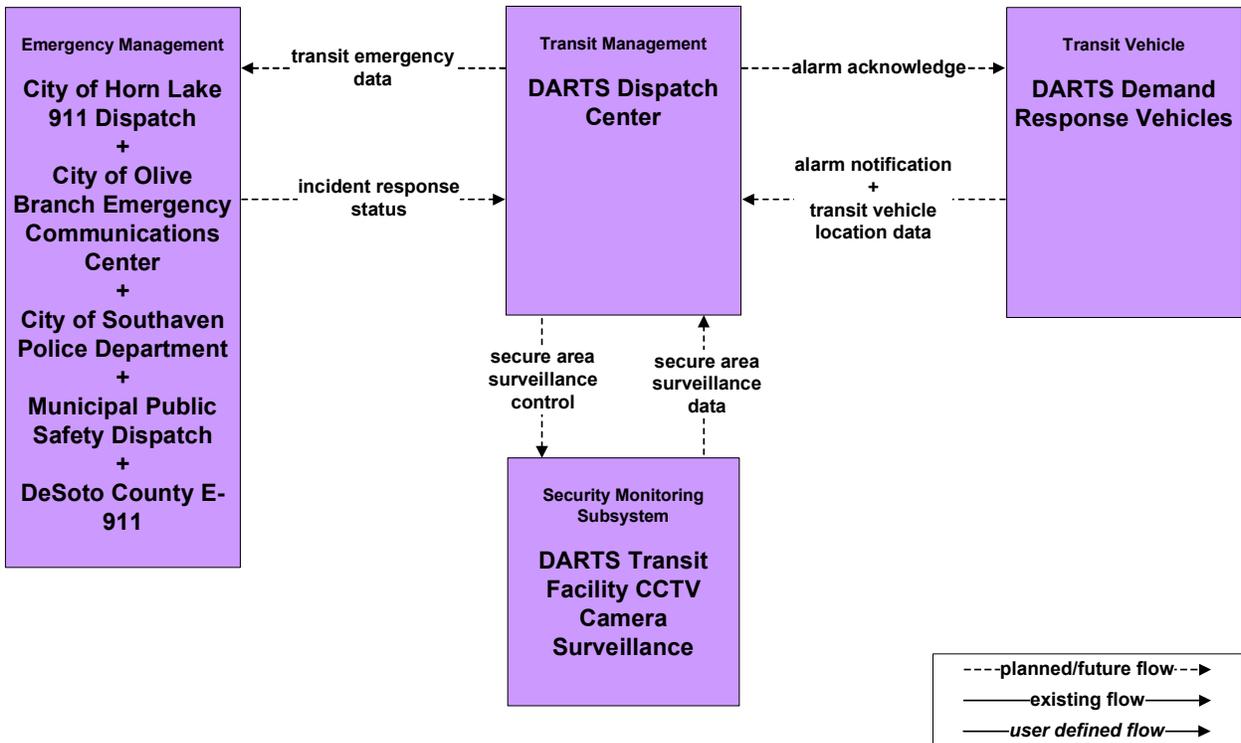
**APTS05 – Transit Security
Memphis Area Transit Authority**



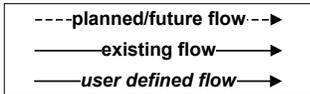
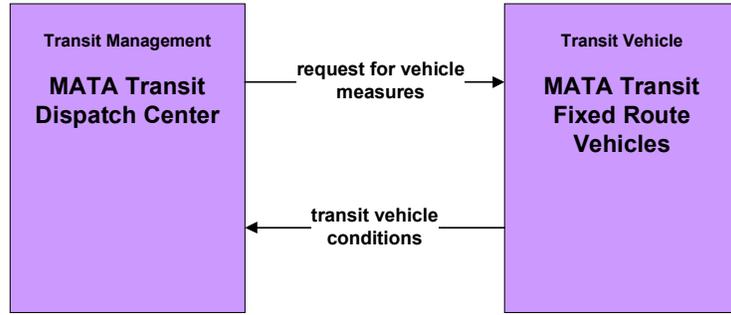
**APTS05 – Transit Security
Delta HRA Transportation**



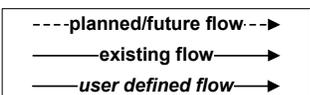
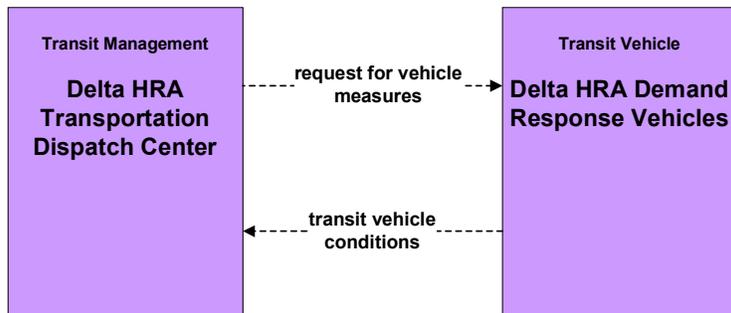
**APTS05 – Transit Security
DARTS**



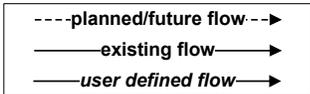
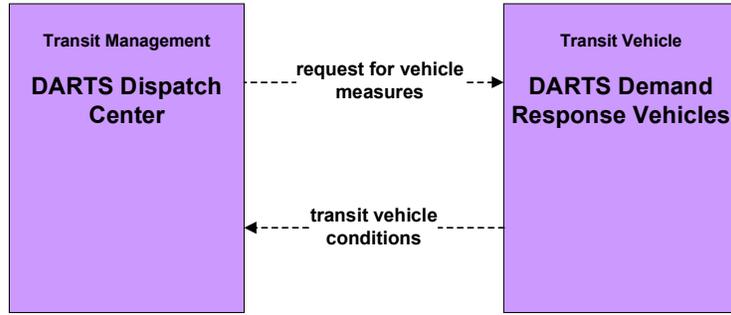
**APTS06 – Transit Fleet Management
Memphis Area Transit Authority**



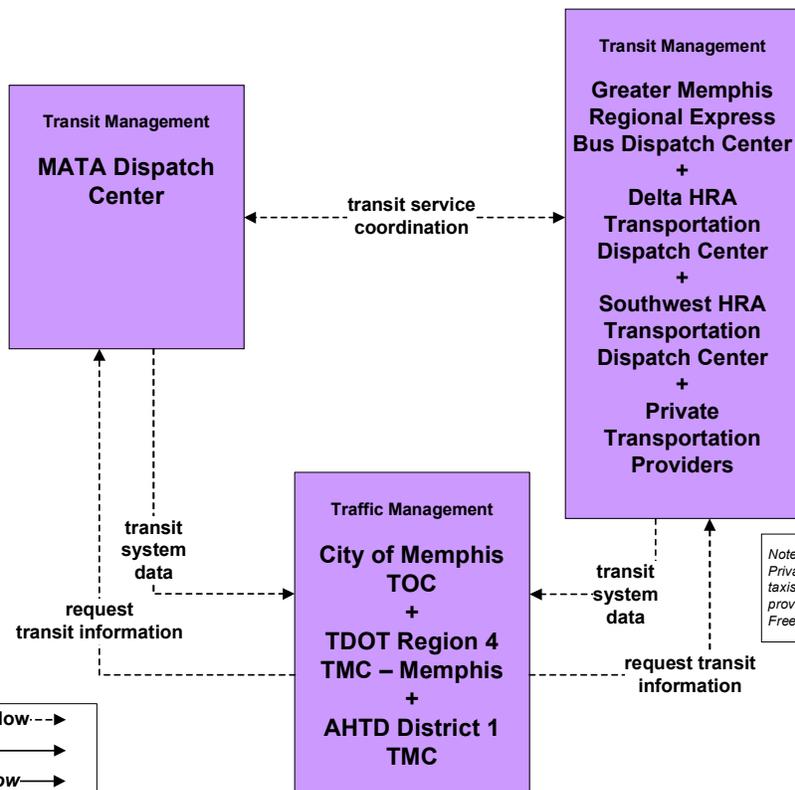
**APTS06 – Transit Fleet Management
Delta HRA Transportation**



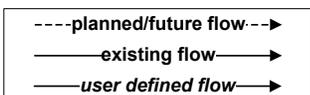
**APTS06 – Transit Fleet Management
DARTS**



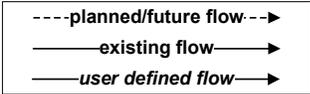
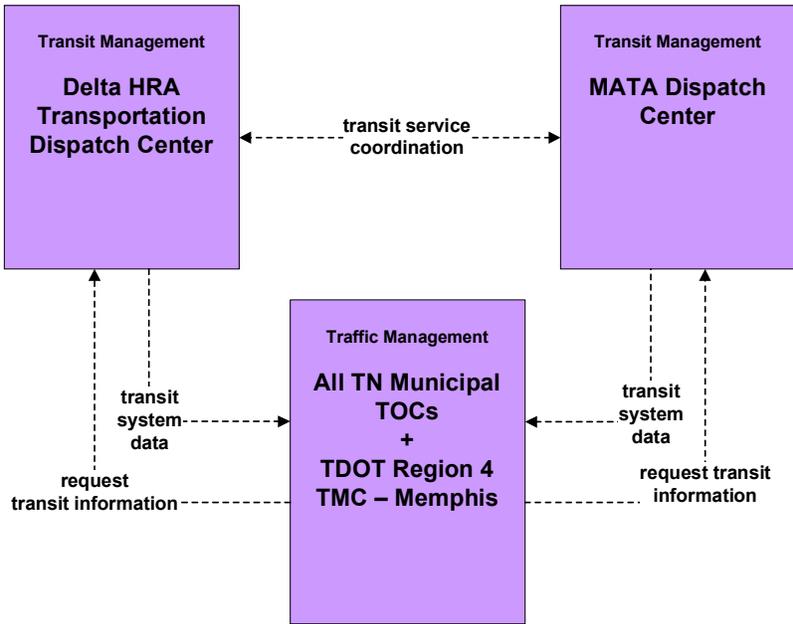
**APTS07 – Multi-Modal Coordination
MATA**



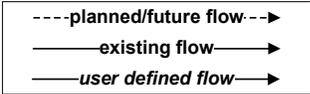
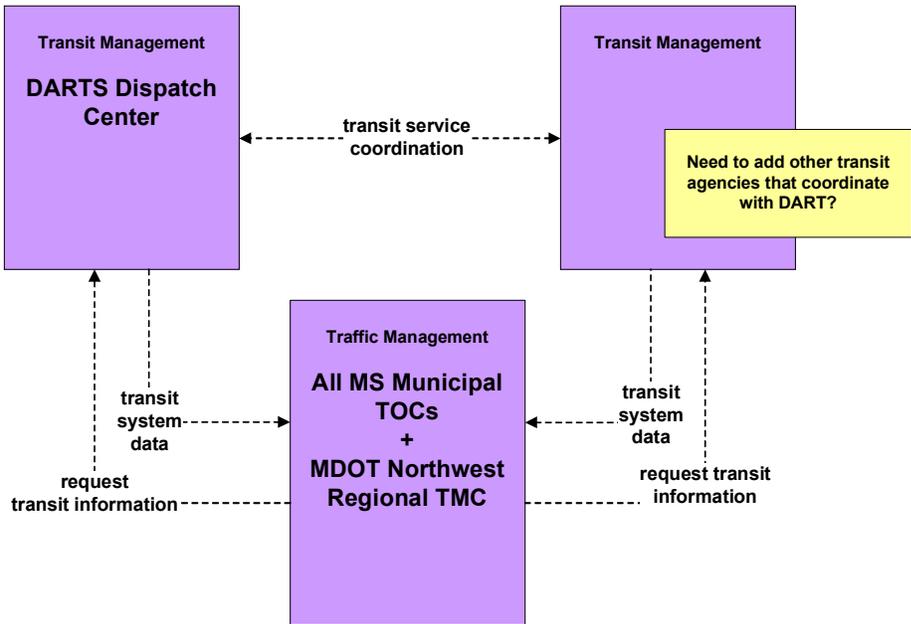
*Note:
Private transportation providers include taxis, Greyhound or other inter-city bus providers, Amtrak and the New Freedoms Program.*



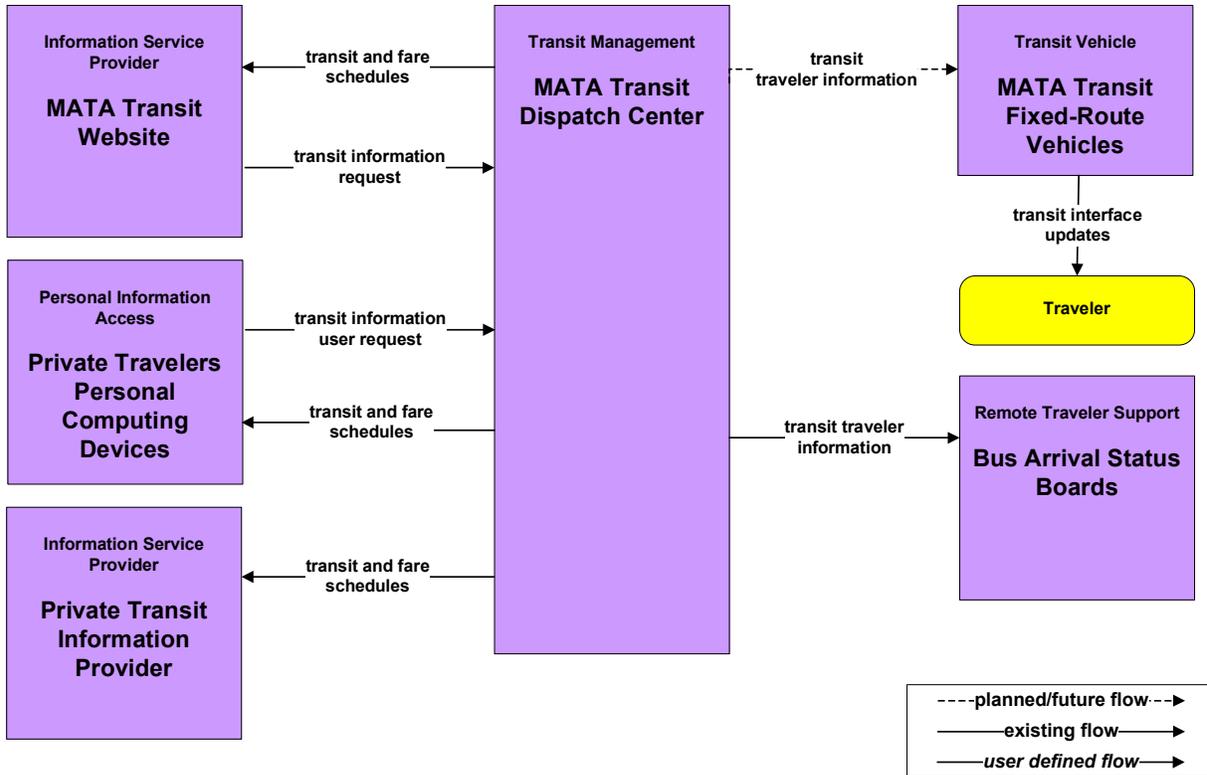
**APTS07 – Multi-Modal Coordination
Delta HRA Transportation**



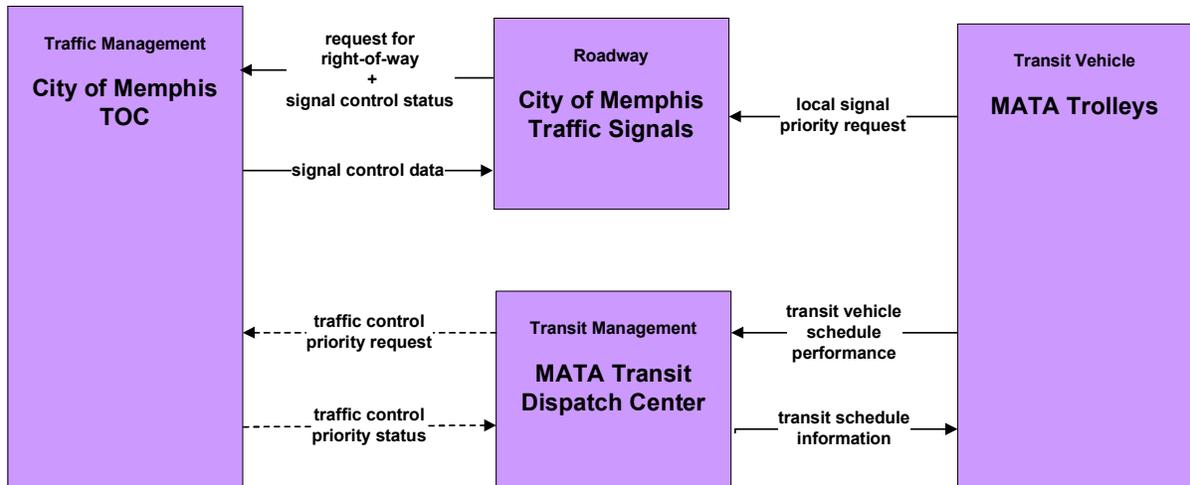
**APTS07 – Multi-Modal Coordination
DARTS**



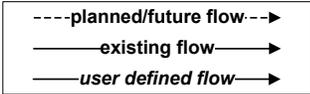
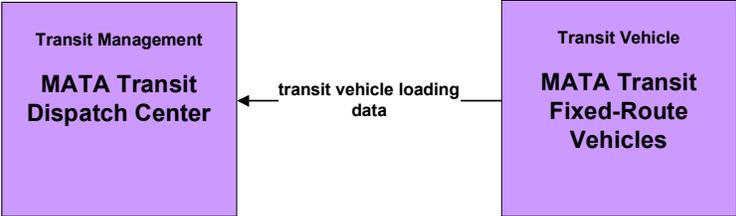
**APTS08 – Transit Traveler Information
Memphis Area Transit Authority**



**APTS9 – Transit Signal Priority
Memphis Area Transit Authority**

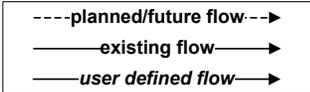
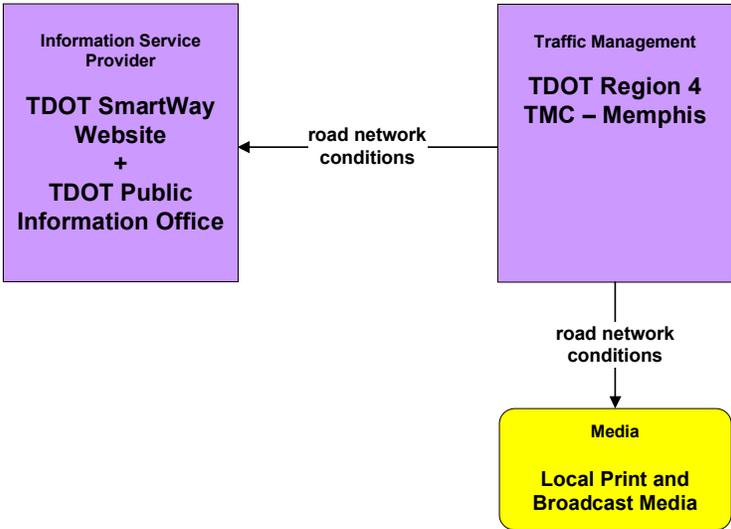


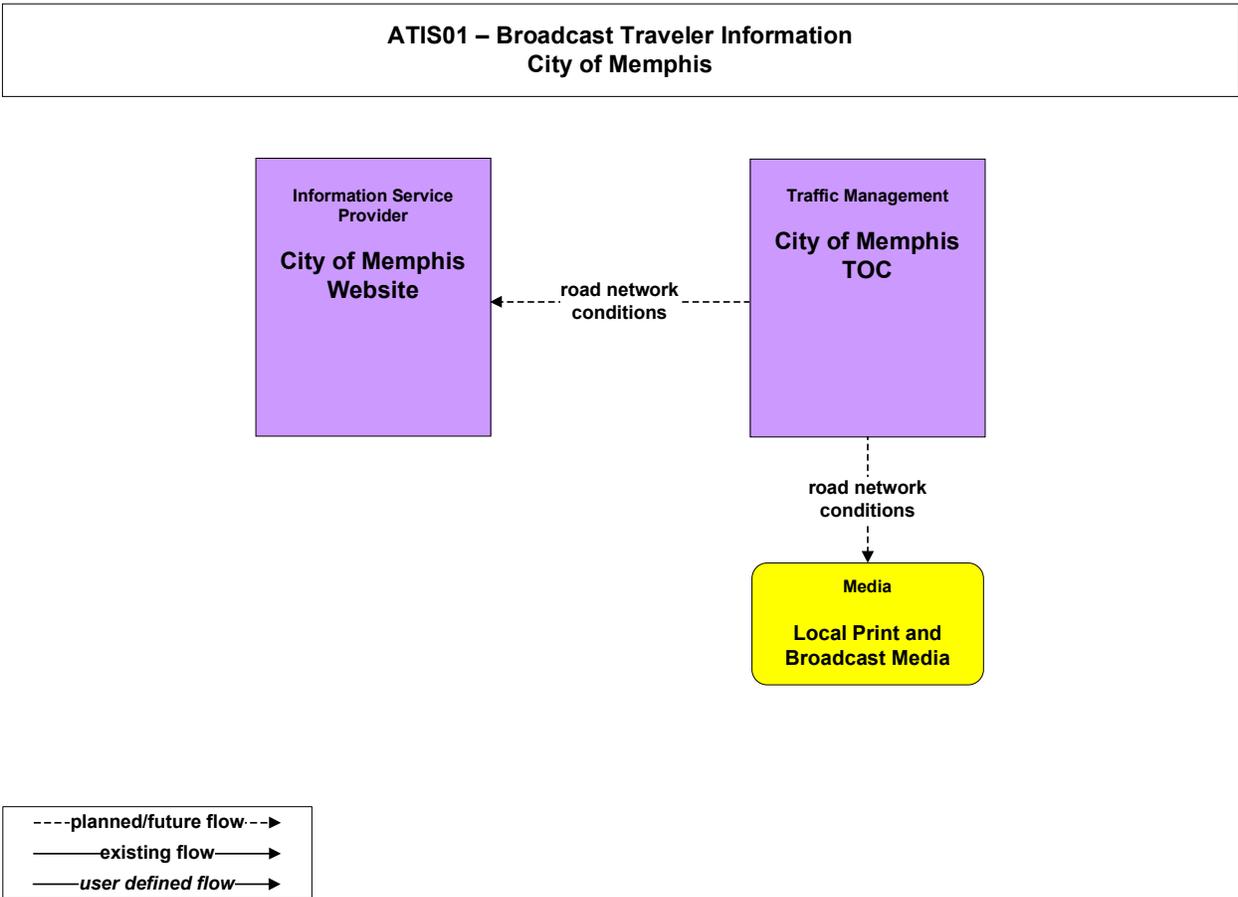
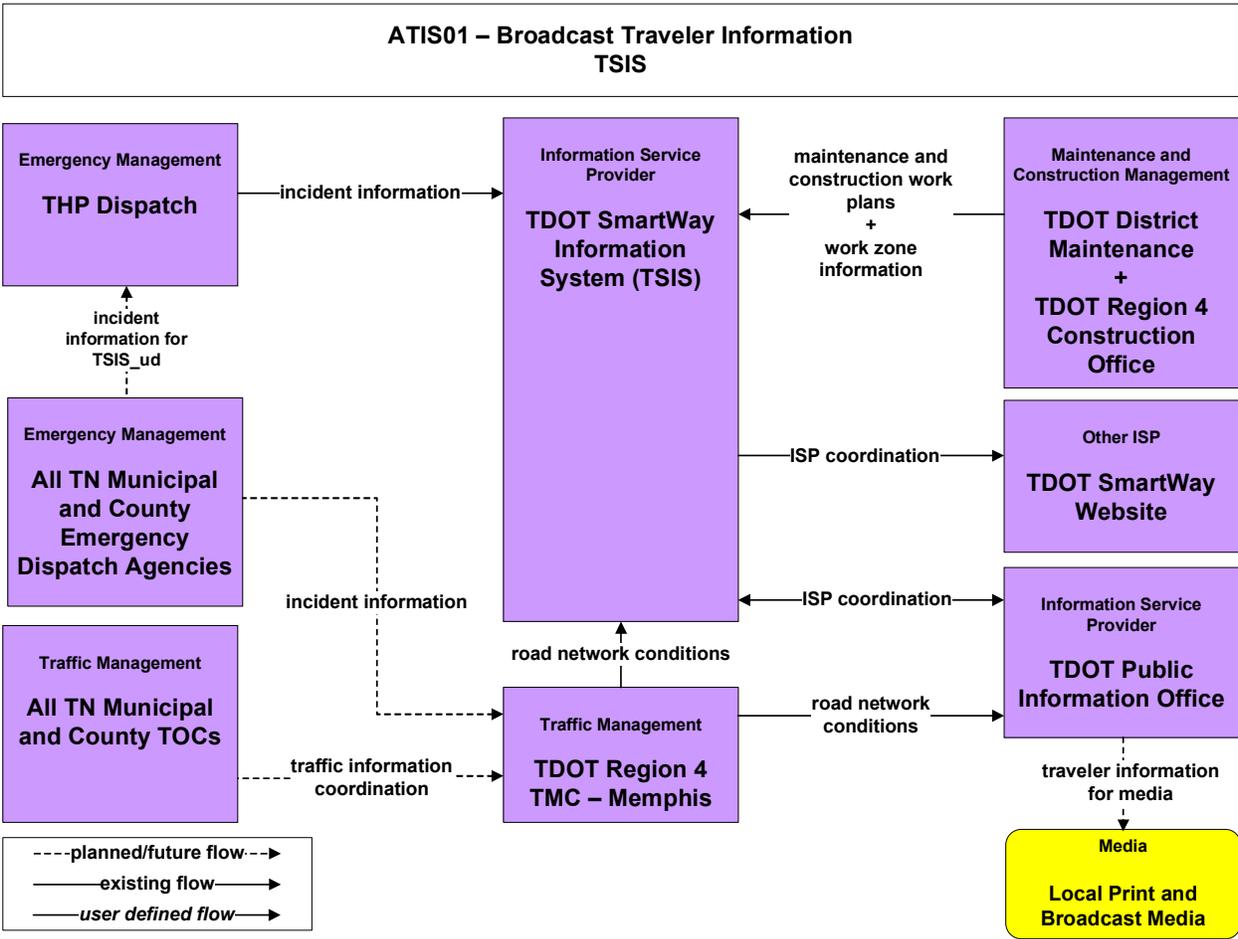
**APTS10 – Transit Passenger Counting
Memphis Area Transit Authority**



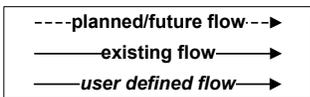
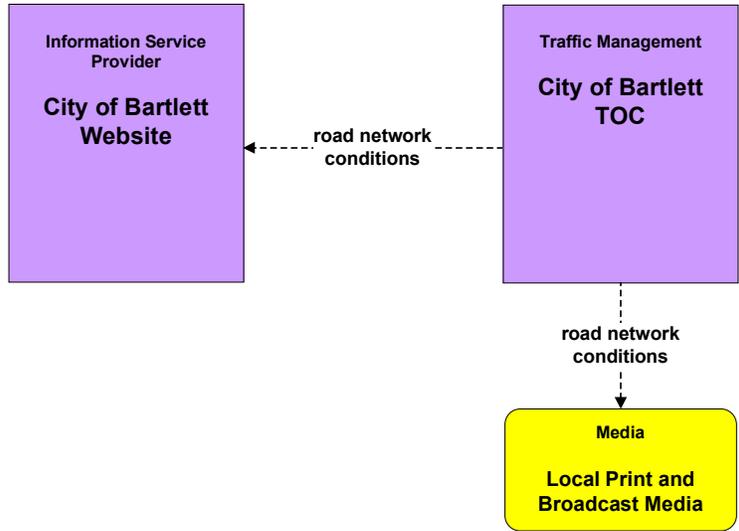
Advanced Traveler Information System

ATIS01 – Broadcast Traveler Information
 TDOT Region 4 TMC – Memphis

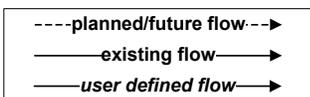
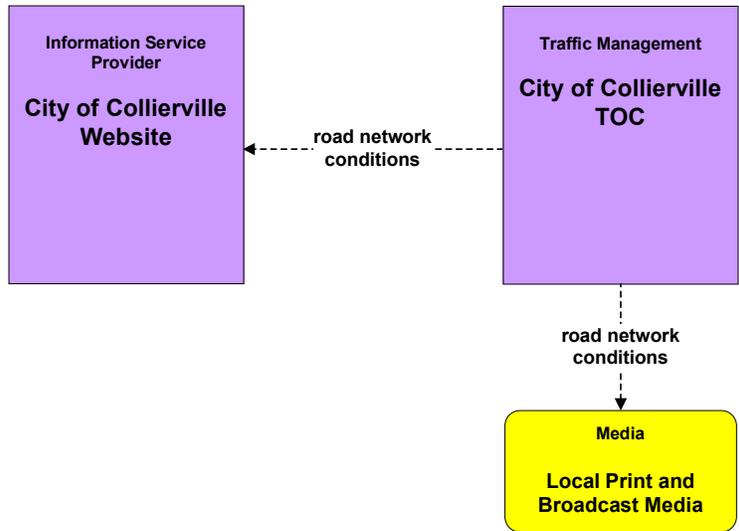




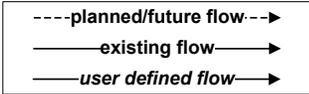
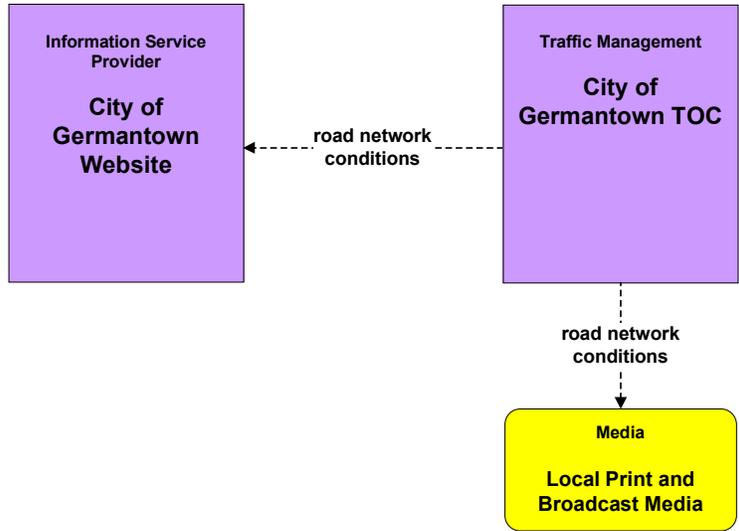
**ATIS01 – Broadcast Traveler Information
City of Bartlett**



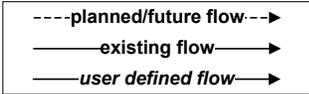
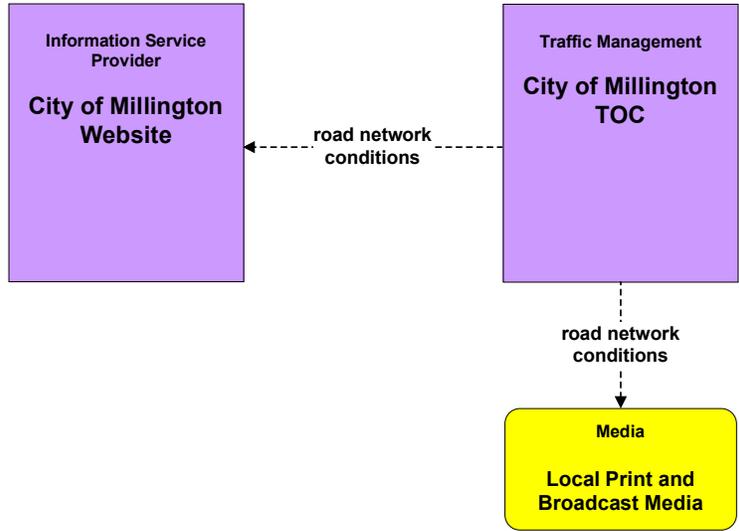
**ATIS01 – Broadcast Traveler Information
City of Collierville**



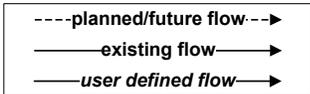
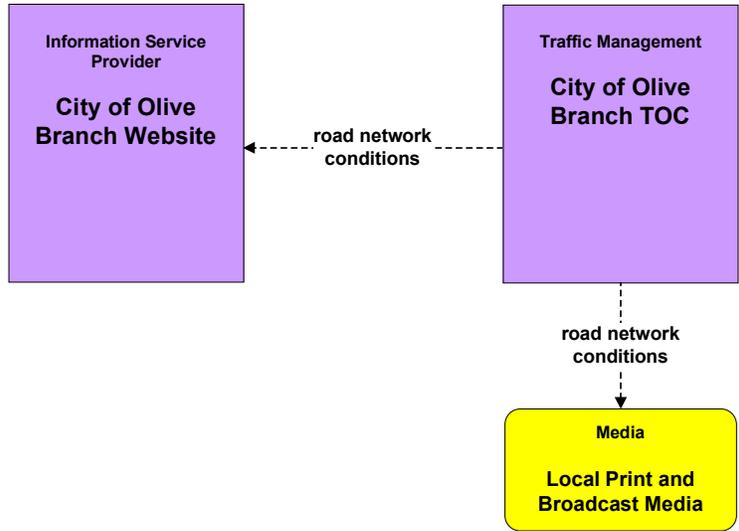
**ATIS01 – Broadcast Traveler Information
City of Germantown**



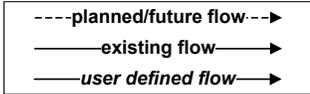
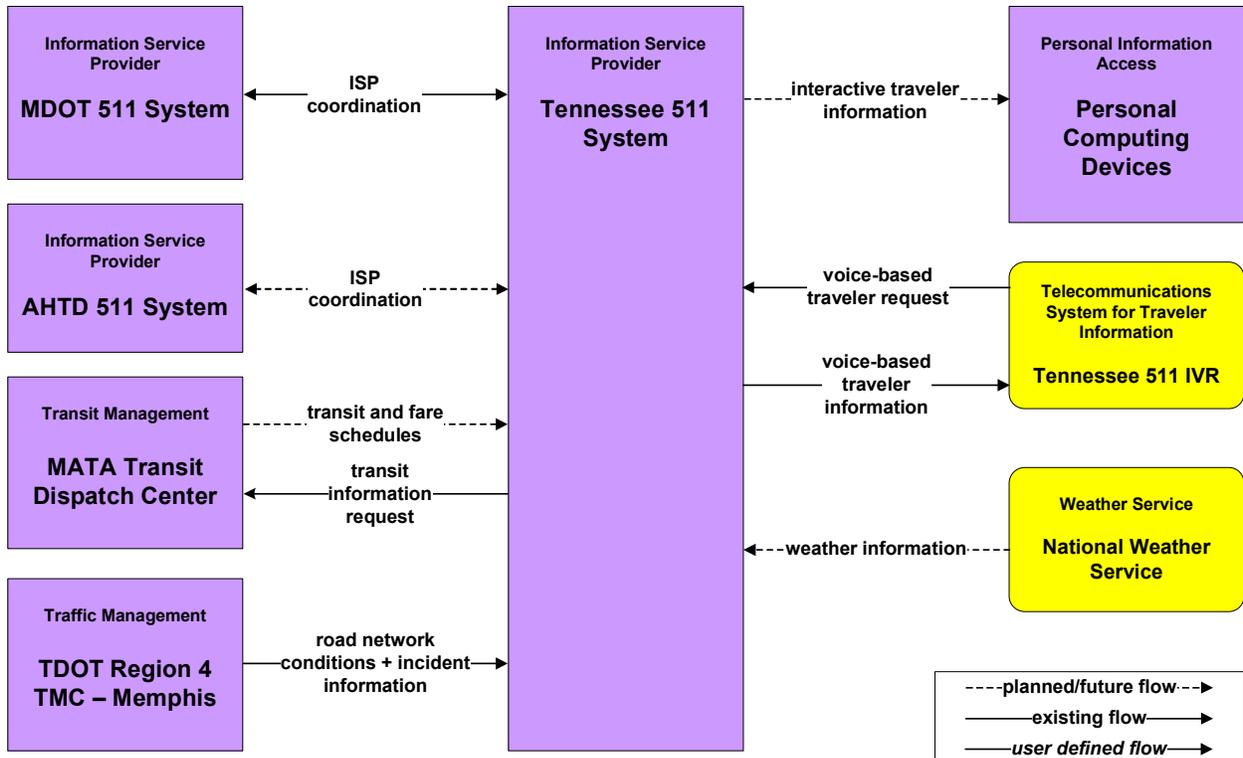
**ATIS01 – Broadcast Traveler Information
City of Millington**



**ATIS01 – Broadcast Traveler Information
City of Olive Branch**

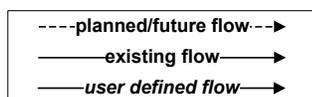
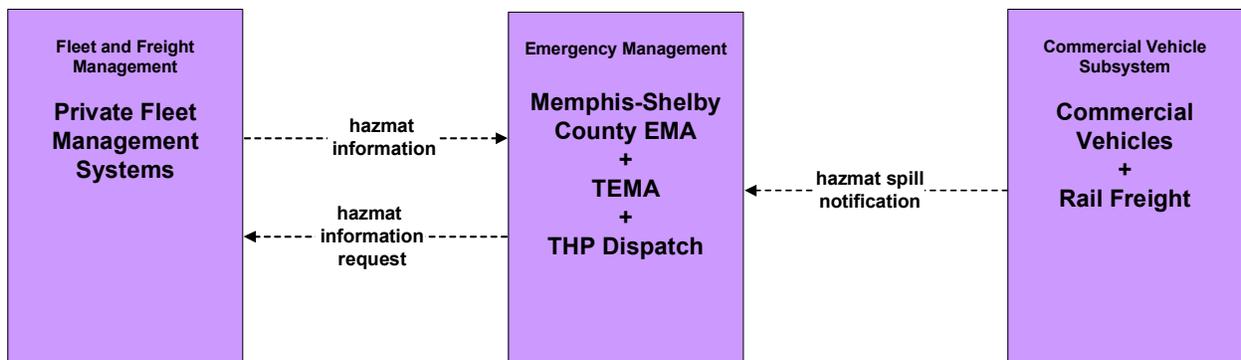


**ATIS02 – Interactive Traveler Information
Tennessee 511**



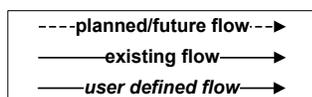
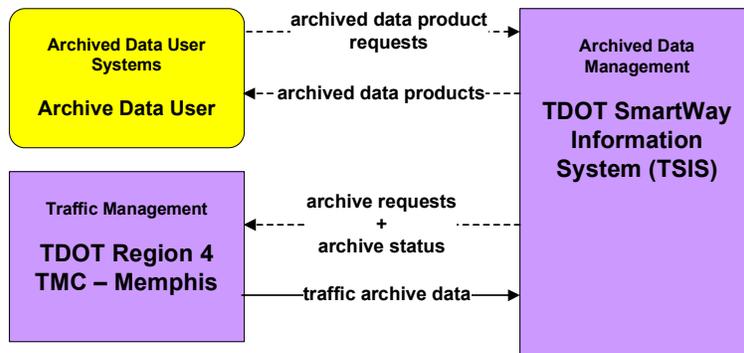
Commercial Vehicle Operations

CVO10 – HAZMAT Management Memphis Region

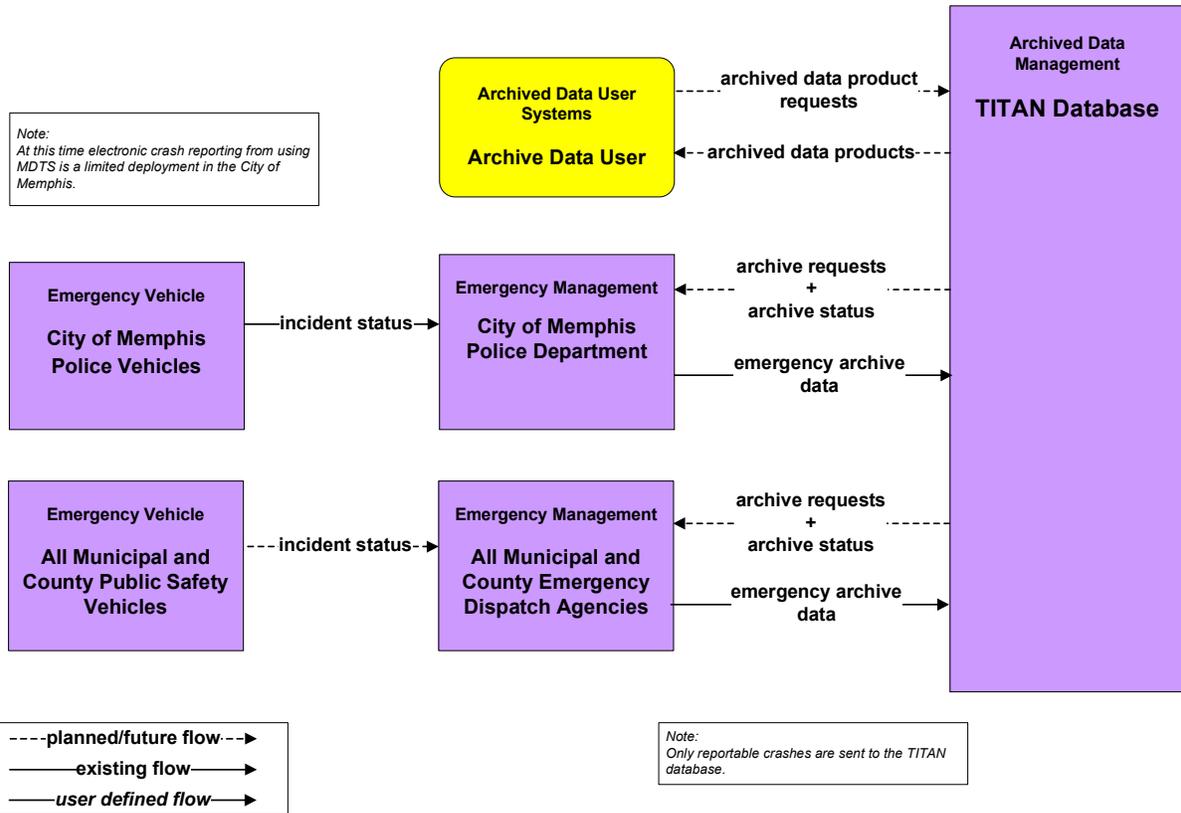


Archived Data

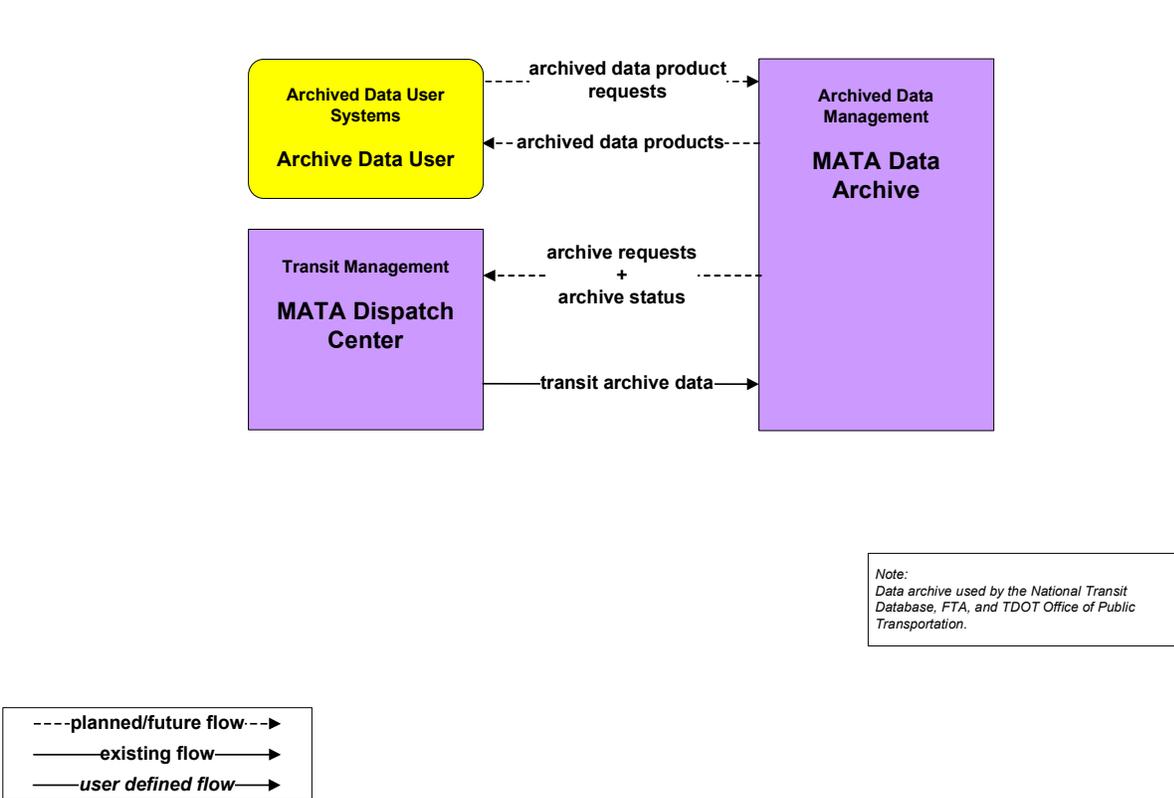
AD1 – ITS Data Mart
TSIS



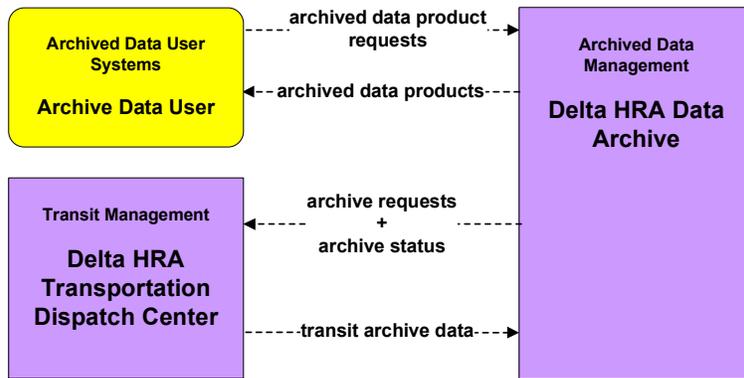
**AD1 – ITS Data Mart
TITAN**



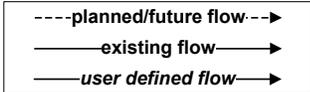
**AD1 – ITS Data Mart
MATA**



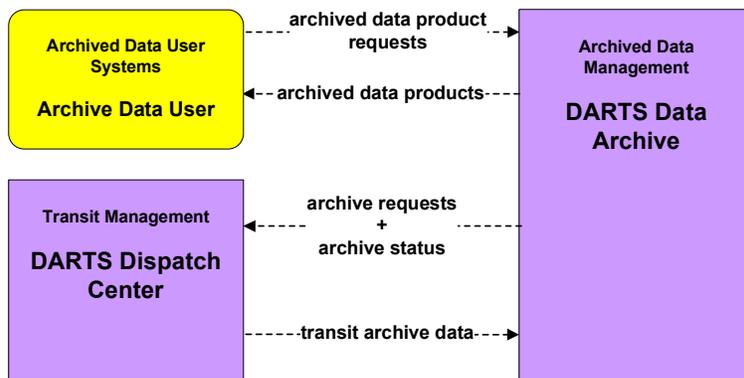
**AD1 – ITS Data Mart
Delta HRA Transportation**



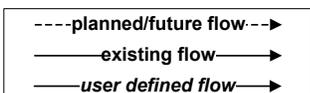
*Note:
Data archive used by the National Transit Database, FTA, and TDOT Office of Public Transportation.*



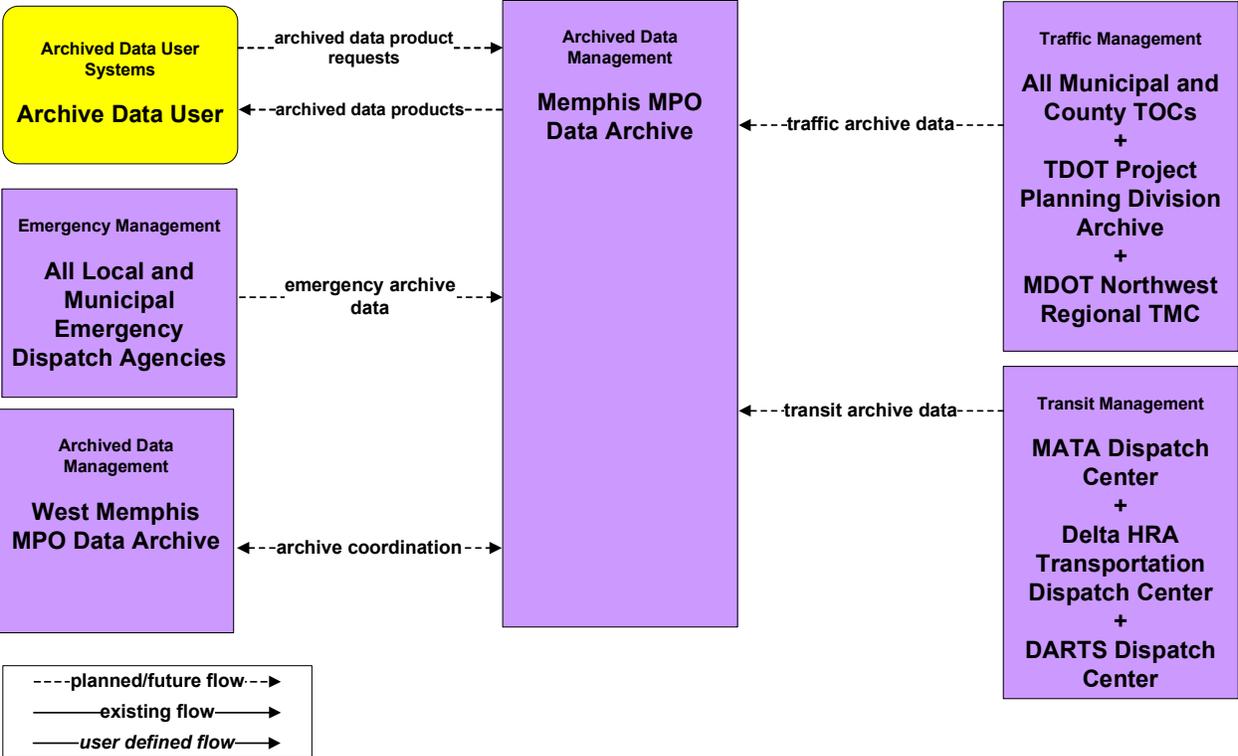
**AD1 – ITS Data Mart
DARTS**



*Note:
Data archive used by the National Transit Database, FTA, and MDOT*



**AD2 – ITS Data Warehouse
Memphis MPO**



**AD3 – ITS Virtual Data Warehouse
Memphis MPO**

