

APPENDIX A – MARKET PACKAGE DEFINITIONS

Market Package	Market Package Name	Description
Traffic Management Service Area		
ATMS01	Network Surveillance	Includes traffic detectors, CCTV cameras, other surveillance equipment, supporting field equipment and fixed point to point communications to transmit the collected data back to a traffic management center.
ATMS02	Traffic Probe Surveillance	Provides an alternative approach for surveillance of the roadway network. Probe vehicles are tracked, and the vehicle's position and speed information are utilized to determine road network conditions such as average speed and congestion conditions.
ATMS03	Surface Street Control	Provides the central control and monitoring equipment, communication links and signal control equipment that support local street and/or arterial traffic management. This market package is consistent with typical urban traffic signal control systems.
ATMS04	Freeway Control	Provides the communications and roadside equipment to support ramp control, lane controls and interchange control for freeways. This market package is consistent with typical urban traffic freeway control systems. Also includes the capability to utilize surveillance information for detection of incidents.
ATMS05	HOV Lane Management	Manages HOV lanes by coordinating freeway ramp meters and connector signals with HOV lane usage signals.
ATMS06	Traffic Information Dissemination	Provides driver information using roadway equipment such as dynamic message signs or highway advisory radio. Information can include traffic and road conditions, closure and detour information, incident information, emergency alerts and driver advisories.
ATMS07	Regional Traffic Management	Sharing of traffic information and control among traffic management centers to support a regional management strategy. The nature of optimization and extent of information and control sharing is determined through working arrangements between jurisdictions.
ATMS08	Traffic Incident Management System	Manages both unexpected incidents and planned events so that the impact to the transportation network and traveler safety is minimized. This market package includes incident detection capabilities and coordination with other agencies. It supports traffic operations personnel in developing an appropriate response in coordination with emergency management, maintenance and construction management, and other incident response personnel.
ATMS09	Traffic Forecast and Demand Management	Includes advanced algorithms, processing, and mass storage capabilities that support historical evaluation, real-time assessment, and forecasts of the roadway network performance.
ATMS10	Electronic Toll Collection	Provides toll operators with the ability to collect tolls electronically and detect and process violations.
ATMS11	Emissions Monitoring and Management	Monitors individual vehicle emissions and provides general air quality monitoring using distributed sensors to collect the data.
ATMS12	Roadside Lighting System Control	Manages electrical lighting systems by monitoring operational conditions and using the lighting controls to vary the amount of light provided along the roadside.
ATMS13	Standard Railroad Grade Crossing	Manages highway traffic at highway-rail intersections (HRIs) where rail operational speeds are less than 80 mph.
ATMS14	Advanced Railroad Grade Crossing	Manages highway traffic at highway-rail intersections (HRIs) where operational speeds are greater than 80 mph. Augments Standard Railroad Grade Crossing market package with additional safety features to mitigate the risks associated with higher rail speeds.
ATMS15	Railroad Operations Coordination	Provides an additional level of strategic coordination between freight rail operations and traffic management centers. Could include train schedules, maintenance schedules or any other anticipated HRI closures.

Market Package	Market Package Name	Description
Traffic Management Service Area (continued)		
ATMS16	Parking Facility Management	Provides enhanced monitoring and management of parking facilities. Market package assists in the management of parking operations, coordinates with transportation authorities, and supports electronic collection of parking fees.
ATMS17	Regional Parking Management	Supports coordination between parking facilities to enable regional parking management strategies.
ATMS18	Reversible Lane Management	Provides for the management of reversible lane facilities and includes the field equipment, physical lane access controls, and associated control electronics.
ATMS19	Speed Monitoring	Monitors the speeds of vehicles traveling through a roadway system.
ATMS20	Drawbridge Management	Supports systems that manage drawbridges at rivers and canals and other multimodal crossings. Includes control devices as well as traveler information systems.
ATMS21	Roadway Closure Management	Closes roadways to vehicular traffic when driving conditions are unsafe, maintenance must be performed, or other situations. Market package covers general road closures applications; specific closure systems that are used at railroad grade crossings, drawbridges, reversible lanes, etc. are covered by other market packages.
Emergency Management Service Area		
EM01	Emergency Call-Taking and Dispatch	Provides basic public safety call-taking and dispatch services. Includes emergency vehicle equipment, equipment used to receive and route emergency calls, wireless communications and coordination between emergency management agencies.
EM02	Emergency Routing	Supports automated vehicle location and dynamic routing of emergency vehicles. Traffic information, road conditions and suggested routing information are provided to enhance emergency vehicle routing. Includes signal preemption and priority applications.
EM03	Mayday and Alarms Support	Allows the user to initiate a request for emergency assistance and enables the emergency management subsystem to locate the user, gather information about the incident and determine the appropriate response.
EM04	Roadway Service Patrols	Supports the roadway service patrol vehicles that aid motorists, offering rapid response to minor incidents (flat tire, crashes, out of gas) to minimize disruption to the traffic stream. This market package monitors service patrol vehicle locations and supports vehicle dispatch.
EM05	Transportation Infrastructure Protection	Includes the monitoring of transportation infrastructure (e.g. bridges, tunnels and management centers) for potential threats using sensors, surveillance equipment, barriers and safeguard systems to preclude an incident, control access during and after an incident or mitigate the impact of an incident. Threats can be acts of nature, terrorist attacks or other incidents causing damage to the infrastructure.
EM06	Wide-Area Alert	Uses ITS driver and traveler information systems to alert the public in emergency situations such as child abductions, severe weather, civil emergencies or other situations that pose a threat to life and property.
EM07	Early Warning System	Monitors and detects potential, looming and actual disasters including natural, technological and man-made disasters.
EM08	Disaster Response and Recovery	Enhances the ability of the surface transportation system to respond to and recover from disasters. Supports coordination of emergency response plans, provides enhanced access to the scene and better information about the transportation system in the vicinity of the disaster, and maintains situation awareness.

Market Package	Market Package Name	Description
Emergency Management Service Area (continued)		
EM09	Evacuation and Reentry Management	Supports evacuation of the general public from a disaster area and manages subsequent reentry to the disaster area. This market package supports both anticipated, well-planned and orderly evacuations such as for a hurricane, as well as sudden evacuations with little or no time for preparation or public warning such as a terrorist act. Employs a number of strategies to maximize capacity along an evacuation route including coordination with transit.
EM10	Disaster Traveler Information	Use of ITS to provide disaster-related traveler information to the general public, including evacuation and reentry information and other information concerning the operation of the transportation system during a disaster.
Maintenance and Construction Management Service Area		
MC01	Maintenance and Construction Vehicle and Equipment Tracking	Tracks the location of maintenance and construction vehicles and other equipment to ascertain the progress of their activities.
MC02	Maintenance and Construction Vehicle Maintenance	Performs vehicle maintenance scheduling and manages both routine and corrective maintenance activities. Includes on-board sensors capable of automatically performing diagnostics.
MC03	Road Weather Data Collection	Collects current road weather conditions using data collected from environmental sensors deployed on and about the roadway.
MC04	Weather Information Processing and Distribution	Processes and distributes the environmental information collected from the Road Weather Data Collection market package. This market package uses the environmental data to detect environmental hazards such as icy road conditions, high winds, dense fog, etc. so system operators can make decisions on corrective actions to take.
MC05	Roadway Automated Treatment	Automatically treats a roadway section based on environmental or atmospheric conditions. Includes the sensors that detect adverse conditions, automated treatment (such as anti-icing chemicals), and driver information systems.
MC06	Winter Maintenance	Supports winter road maintenance. Monitors environmental conditions and weather forecasts and uses the information to schedule winter maintenance activities.
MC07	Roadway Maintenance and Construction	Supports numerous services for scheduled and unscheduled maintenance and construction on a roadway system or right-of-way. Environmental conditions information is also received from various weather sources to aid in scheduling maintenance and construction activities.
MC08	Work Zone Management	Directs activity in work zones, controlling traffic through portable dynamic message signs and informing other groups of activity for better coordination management. Also provides speed and delay information to motorists prior to the work zone.
MC09	Work Zone Safety Monitoring	Includes systems that improve work crew safety and reduce collisions between the motoring public and maintenance and construction vehicles. Detects vehicle intrusions in work zones and warns workers and drivers of safety hazards when encroachment occurs.
MC10	Maintenance and Construction Activity Coordination	Supports the dissemination of maintenance and construction activity to centers that can utilize it as part of their operations. (i.e., traffic management, transit, emergency management)
MC11	Environmental Probe Surveillance	Collects data from vehicles in the road network that can be used to directly measure or infer current environmental conditions.
MC12	Infrastructure Monitoring	Monitors the condition of pavement, bridges, tunnels, associated hardware, and other transportation-related infrastructure using both fixed and vehicle-based infrastructure monitoring sensors. Monitors vehicle probes used to determine current pavement conditions.

Market Package	Market Package Name	Description
Public Transportation Service Area		
APTS01	Transit Vehicle Tracking	Monitors current transit vehicle location using an automated vehicle location system. Location data may be used to determine real time schedule adherence and update the transit system's schedule in real time.
APTS02	Transit Fixed-Route Operations	Performs vehicle routing and scheduling, as well as operator assignment and system monitoring for fixed-route and flexible-route transit services.
APTS03	Demand Response Transit Operations	Performs vehicle routing and scheduling, as well as operator assignment and system monitoring for demand responsive transit services.
APTS04	Transit Fare Collection Management	Manages transit fare collection on-board transit vehicles and at transit stops using electronic means. Allows the use of a traveler card or other electronic payment device.
APTS05	Transit Security	Provides for the physical security of transit passengers and transit vehicle operators. Includes on-board security cameras and panic buttons.
APTS06	Transit Fleet Management	Supports automatic transit maintenance scheduling and monitoring for both routine and corrective maintenance.
APTS07	Multi-modal Coordination	Establishes two way communications between multiple transit and traffic agencies to improve service coordination.
APTS08	Transit Traveler Information	Provides transit users at transit stops and on board transit vehicles with ready access to transit information. Services include stop announcement, imminent arrival signs and real-time transit schedule displays. Systems that provide custom transit trip itineraries and other tailored transit information services are also represented by this market package.
APTS09	Transit Signal Priority	Determines the need for transit priority on routs and at certain intersections and requests transit vehicle priority at these locations to improve on-time performance of the transit system.
APTS10	Transit Passenger Counting	Counts the number of passengers entering and exiting a transit vehicle using sensors mounted on the vehicle and communicates the collected passenger data back to the management center.
Commercial Vehicle Operations Service Area		
CVO01	Fleet Administration	Provides the capabilities to manage a fleet of commercial vehicles. Vehicle routing and tracking as well as notification of emergency management of any troublesome route deviations (such as a HAZMAT vehicle) are part of this market package.
CVO02	Freight Administration	Tracks the movement of cargo and monitors the cargo condition.
CVO03	Electronic Clearance	Provides for automatic clearance at roadside check facilities. Allows a good driver/vehicle/carrier to pass roadside facilities at highway speeds using transponders and dedicated short range communications to the roadside.
CVO04	CV Administrative Processes	Provides for electronic application, processing, fee collection, issuance and distribution of CVO credentials and tax filing.
CVO05	International Border Electronic Clearance	Provides for automated clearance at international border crossings.
CVO06	Weigh-In-Motion	Provides for high speed weigh-in-motion with or without automated vehicle identification capabilities.
CVO07	Roadside CVO Safety	Provides for automated roadside safety monitoring and reporting. Automates commercial vehicle safety inspections at the roadside check facilities.
CVO08	On-board CVO and Freight Safety and Security	Provides for on-board commercial vehicle safety monitoring and reporting as well as roadside support for reading on-board safety data via tags.
CVO09	CVO Fleet Maintenance	Supports maintenance of CVO fleet vehicles with on-board monitoring equipment and automated vehicle location capabilities.
CVO10	HAZMAT Management	Integrates incident management capabilities with commercial vehicle tracking to assure effective treatment of HAZMAT material and incidents.

Market Package	Market Package Name	Description
Commercial Vehicle Operations Service Area (continued)		
CVO11	Roadside HAZMAT Security Detection and Mitigation	Provides the capability to detect and classify security sensitive HAZMAT on commercial vehicles using roadside sensing and imaging technology. Credentials information can be accessed to verify if the commercial driver, vehicle and carrier are permitted to transport the identified HAZMAT.
CVO12	CV Driver Security Authentication	Provides the ability for fleet and freight management to detect when an unauthorized commercial vehicle driver attempts to drive a vehicle based on stored identity information. If an unauthorized driver has been detected the commercial vehicle can be disabled.
CVO13	Freight Assignment Tracking	Provides for the planning and tracking of the commercial vehicle, freight equipment and the commercial vehicle driver.
Traveler Information Service Area		
ATIS01	Broadcast Traveler Information	Collects traffic conditions, advisories, general public transportation, toll and parking information, incident information, roadway maintenance and construction information, air quality and weather information, and broadly disseminates this information through existing infrastructures (radio, cell phones, etc.).
ATIS02	Interactive Traveler Information	Provides tailored information in response to a traveler request. The traveler can obtain current information regarding traffic conditions, roadway maintenance and construction, transit services, ride share/ride match, parking management, detours and pricing information.
ATIS03	Autonomous Route Guidance	Using vehicle location and other information, this market package enables route planning and detailed route guidance based on static, stored information.
ATIS04	Dynamic Route Guidance	Offers advanced route planning and guidance that is responsive to current conditions.
ATIS05	ISP Based Trip Planning and Route Guidance	Offers the user pre-trip route planning and en-route guidance services. Routes may be based on static or real time network conditions.
ATIS06	Transportation Operations Data Sharing	Collects, processes, and stores current information on traffic and travel conditions and other information about the current state of the transportation network and makes the information available to transportation system operators.
ATIS07	Yellow Pages and Reservation	Provides yellow pages and reservations services to the user.
ATIS08	Dynamic Ridesharing	Provides dynamic ridesharing/ride matching services to travelers.
ATIS09	In Vehicle Signing	Supports the distribution of traffic and travel advisory information to drivers through in-vehicle devices.
ATIS10	VII Traveler Information	Provides location specific information to travelers in vehicles using Vehicle Infrastructure Integration (VII).
Archived Data Management Service Area		
AD1	ITS Data Mart	Provides a focused archive that houses data collected and owned by a single agency or other organization. Focused archive typically covers a single transportation mode and one jurisdiction.
AD2	ITS Data Warehouse	Includes all the data collection and management capabilities of the ITS Data Mart. Adds the functionality to allow collection of data from multiple agencies and data sources across modal and jurisdictional boundaries.
AD3	ITS Virtual Data Warehouse	Provides the same broad access to multimodal, multidimensional data from varied sources as in the ITS Data Warehouse Market Package, but provides this access using enhanced interoperability between physically distributed ITS archives that are each locally managed.

Market Package	Market Package Name	Description
Vehicle Safety Service Area		
AVSS01	Vehicle Safety Monitoring	Diagnoses critical components of the vehicle and warns the driver of potential dangers. On-board sensors will determine the vehicle's condition, performance, and on-board safety data and display that information to the driver.
AVSS02	Driver Safety Monitoring	Determines the driver's condition and warns the driver of potential dangers. On-board sensors will determine the driver's condition, performance, and on-board safety data and display that information to the driver.
AVSS03	Longitudinal Safety Monitoring	Uses on-board safety sensors and collision sensors to monitor the areas in front of and behind the vehicle and present warnings to the driver about potential hazards.
AVSS04	Lateral Safety Warning	Uses on-board safety sensors and collision sensors to monitor the areas to the sides of the vehicle and present warnings to the driver about potential hazards.
AVSS05	Intersection Safety Warning	Determines the probability of a collision in an equipped intersection (either highway-highway or highway-rail) and provides timely warnings to drivers in response to hazardous conditions. Monitors the roadway infrastructure assess vehicle locations and speeds near an intersection. Using this information, a warning is determined and communicated to the approaching vehicle using a short range communications system. Information can be provided to the driver through the ATIS09 – In-Vehicle Signing market package.
AVSS06	Pre-Crash Restraint Deployment	Provides in-vehicle sensors to monitor the vehicle's local environment (lateral and longitudinal gaps, weather, and roadway conditions), determine collision probability, and deploy a pre-crash safety system.
AVSS07	Driver Visibility Improvement	Enhances the driver visibility using an enhanced vision system. On-board display hardware is needed.
AVSS08	Advanced Vehicle Longitudinal Control	Automates the speed and headway control functions on board the vehicle utilizing safety sensors and collision sensors combined with vehicle dynamics processing to control the throttle and brakes. Requires on-board sensors to measure longitudinal gaps and a processor for controlling the vehicle speed.
AVSS09	Advanced Vehicle Lateral Control	Automates the steering control on board the vehicle utilizing safety sensors and collision sensors combined with vehicle dynamics processing to control the steering. Requires on-board sensors to measure lane position and lateral deviations and a processor for controlling the vehicle steering.
AVSS10	Intersection Collision Avoidance	Determines the probability of an intersection collision and provides timely warnings to approaching vehicles so that avoidance actions can be taken. This market package builds on the intersection collision warning infrastructure and in-vehicle equipment and adds equipment in the vehicle that can take control of the vehicle in emergency situations.
AVSS11	Automated Highway System	Enables "hands-off" operation of the vehicle on the automated portion of the highway system. Implementation requires lateral lane holding, vehicle speed and steering control, and automated highway system check-in and check-out.
AVSS12	Cooperative Vehicle Safety Systems	Enhances the on-board longitudinal and lateral warning stand-alone systems by exchanging messages wirelessly with other surrounding vehicles. Vehicles send out information concerning their location, speed, and direction to any surrounding vehicles. Special messages from approaching emergency vehicles may also be received and processed.

APPENDIX B – CUSTOMIZED MARKET PACKAGES

APPENDIX B

LIST OF FIGURES

ATMS01 – Network Surveillance: TDOT Region 1 TMC – Knoxville	B-1
ATMS01 – Network Surveillance: Cumberland Gap Tunnel Authority	B-2
ATMS01 – Network Surveillance: City of Morristown.....	B-2
ATMS01 – Network Surveillance: City of Morristown Commercial Vehicle Route Enforcement.....	B-3
ATMS01 – Network Surveillance: City of Jefferson City	B-3
ATMS01 – Network Surveillance: Municipal	B-4
ATMS03 – Surface Street Control: City of Morristown	B-4
ATMS03 – Surface Street Control: City of Jefferson City	B-5
ATMS03 – Surface Street Control: Municipal.....	B-5
ATMS06 – Traffic Information Dissemination: TDOT Region 1 TMC – Knoxville.....	B-6
ATMS06 – Traffic Information Dissemination: Cumberland Gap Tunnel Authority	B-6
ATMS06 – Traffic Information Dissemination: City of Morristown.....	B-7
ATMS07 – Regional Traffic Management: TDOT Region 1 TMC – Knoxville.....	B-7
ATMS07 – Regional Traffic Management: City of Morristown	B-8
ATMS07 – Regional Traffic Management: City of Jefferson City.....	B-9
ATMS07 – Regional Traffic Management: Municipal	B-9
ATMS08 – Traffic Incident Management System: TDOT Region 1 TMC – Knoxville	B-9
ATMS08 – Traffic Incident Management System: City of Morristown	B-10
ATMS08 – Traffic Incident Management System: City of Jefferson City	B-10
ATMS08 – Traffic Incident Management System: Municipal.....	B-11
ATMS13 – Standard Railroad Grade Crossing: City of Morristown.....	B-11
ATMS13 – Standard Railroad Grade Crossing: City of Jefferson City	B-12
ATMS13 – Standard Railroad Grade Crossing: Municipal.....	B-12
ATMS15 – Railroad Operations Coordination: City of Morristown	B-13
ATMS15 – Railroad Operations Coordination: City of Jefferson City.....	B-13
ATMS15 – Railroad Operations Coordination: Municipal	B-14
ATMS19 – Speed Monitoring: City of Morristown.....	B-14
ATMS19 – Speed Monitoring: City of Jefferson City	B-15
EM01 – Emergency Call-Taking and Dispatch: Tennessee Highway Patrol.....	B-16
EM01 – Emergency Call-Taking and Dispatch: Hamblen County 911 Dispatch.....	B-17
EM01 – Emergency Call-Taking and Dispatch: Jefferson County 911 Dispatch.....	B-17
EM02 – Emergency Routing: City of Morristown.....	B-18
EM02 – Emergency Routing: City of Jefferson City	B-18
EM02 – Emergency Routing: Hamblen County	B-19
EM02 – Emergency Routing: Jefferson County	B-19
EM04 – Roadway Service Patrols: HELP.....	B-20
EM06 – Wide-Area Alert: Tennessee AMBER Alert.....	B-20
EM08 – Disaster Response and Recovery: TEMA	B-21
EM08 – Disaster Response and Recovery: Hamblen County Emergency Management Agency.....	B-21
EM08 – Disaster Response and Recovery: Jefferson County Emergency Management Agency.....	B-22
EM09 – Evacuation and Reentry Management: TEMA	B-22
EM09 – Evacuation and Reentry Management: Hamblen County Emergency Management Agency ..	B-23
EM09 – Evacuation and Reentry Management: Jefferson County Emergency Management Agency ..	B-23
EM10 – Disaster Traveler Information: Tennessee 511 and TSIS.....	B-24

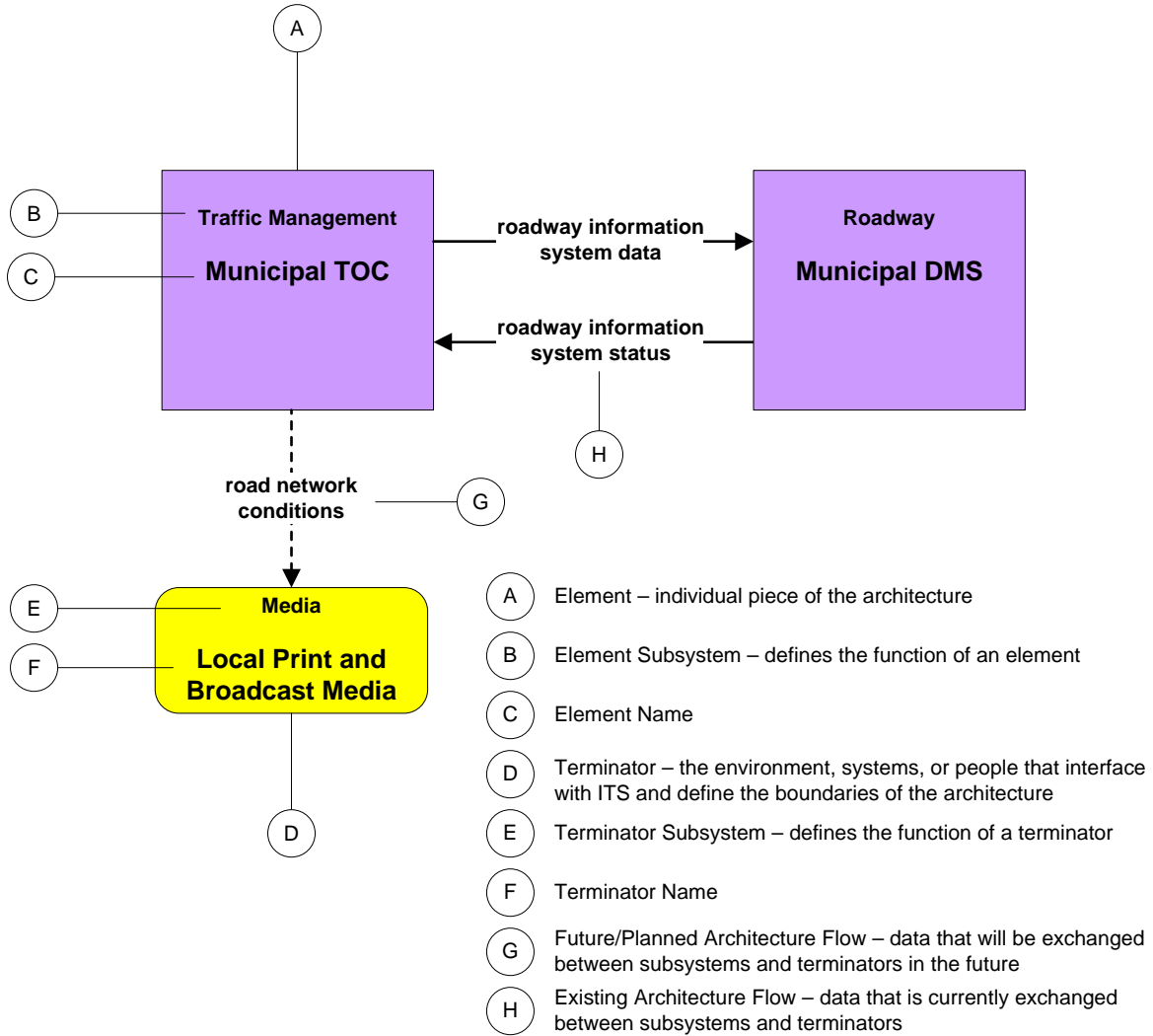
APPENDIX B

LIST OF FIGURES

MC01 – Maintenance and Construction Vehicle and Equipment Tracking: TDOT District Maintenance.....	B-25
MC01 – Maintenance and Construction Vehicle and Equipment Tracking: City of Morristown.....	B-26
MC01 – Maintenance and Construction Vehicle and Equipment Tracking: Municipal/County	B-26
MC02 – Maintenance and Construction Vehicle Maintenance: City of Morristown.....	B-27
MC03 – Road Weather Data Collection: TDOT RWIS	B-27
MC03 – Road Weather Data Collection: City of Morristown.....	B-28
MC03 – Road Weather Data Collection: Municipal/County	B-28
MC04 – Weather Information Processing and Distribution: TDOT Maintenance Headquarters	B-29
MC04 – Weather Information Processing and Distribution: Hamblen County	B-29
MC04 – Weather Information Processing and Distribution: Jefferson County	B-30
MC06 – Winter Maintenance: TDOT District Maintenance.....	B-30
MC07 – Roadway Maintenance and Construction: City of Morristown.....	B-31
MC08 – Work Zone Management: TDOT District Maintenance	B-31
MC08 – Work Zone Management: City of Morristown	B-32
MC08 – Work Zone Management: Municipal/County	B-32
MC09 – Work Zone Safety Monitoring: City of Morristown.....	B-33
MC10 – Maintenance and Construction Activity Coordination: TDOT	B-33
MC10 – Maintenance and Construction Activity Coordination: City of Morristown.....	B-34
MC10 – Maintenance and Construction Activity Coordination: Municipal/County	B-34
APTS01 – Transit Vehicle Tracking: Morristown Transit.....	B-35
APTS02 – Transit Fixed-Route Operations: Morristown Transit	B-36
APTS03 – Demand Response Transit Operations: Morristown Transit	B-36
APTS04 – Transit Fare Collection Management: Morristown Transit	B-37
APTS05 – Transit Security: Morristown Transit	B-37
APTS06 – Transit Fleet Management: Morristown Transit.....	B-38
APTS07 – Multi-modal Coordination: Morristown Transit.....	B-38
APTS08 – Transit Traveler Information: Morristown Transit	B-39
APTS10 – Transit Passenger Counting: Morristown Transit.....	B-39
ATIS01 – Broadcast Traveler Information: TSIS	B-40
ATIS01 – Broadcast Traveler Information: City of Morristown	B-41
ATIS01 – Broadcast Traveler Information: City of Jefferson City.....	B-41
ATIS01 – Broadcast Traveler Information: Tennessee GoSmart Kiosks and TDOT SmartWay Website	B-42
ATIS01 – Broadcast Traveler Information: Tennessee 511	B-42
CVO06 – Weigh-in-Motion: THP Weigh and Inspection Station	B-43
CVO10 – HAZMAT Management: Lakeway Region	B-44
CVO11 – Roadside HAZMAT Security Detection and Mitigation: City of Morristown	B-45
AD1 – ITS Data Mart: TDOT	B-45
AD1 – ITS Data Mart: TITAN.....	B-46
AD1 – ITS Data Mart: City of Morristown TraCS Database.....	B-46
AD1 – ITS Data Mart: Morristown Transit.....	B-47
AD2 – ITS Data Warehouse: Lakeway MTPO	B-47

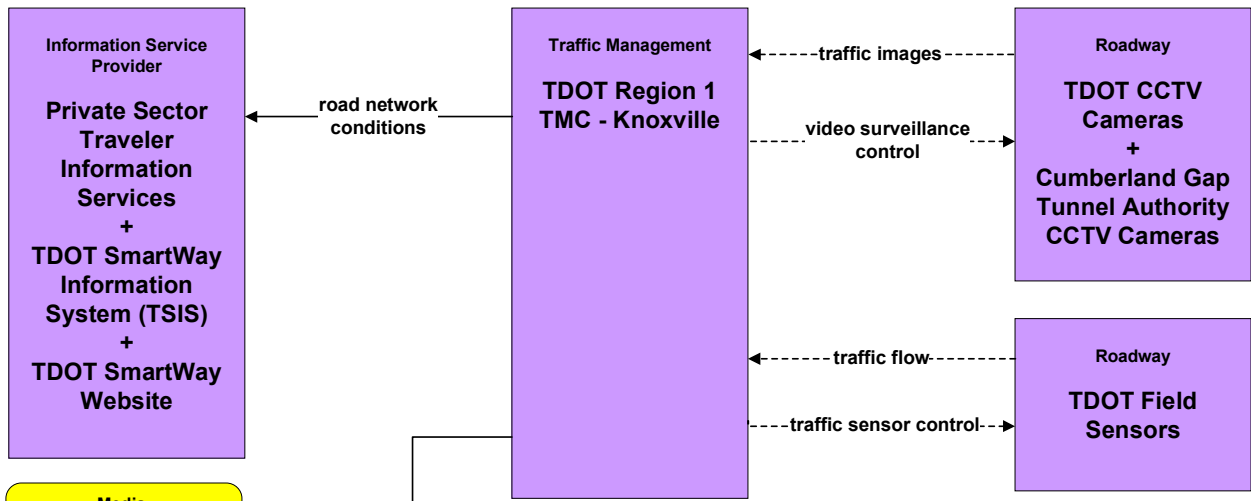
APPENDIX B

MARKET PACKAGE DIAGRAM COMPONENT AND TERMINOLOGY KEY



Advanced Traffic Management System

**ATMS01 – Network Surveillance
TDOT Region 1 TMC - Knoxville**

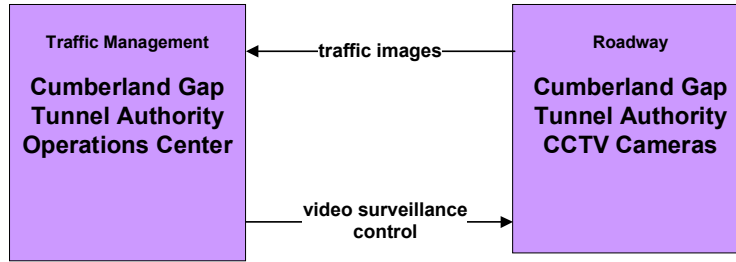


Media
Local Print and Broadcast Media

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

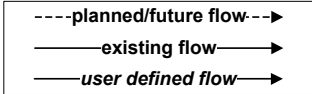
Note:
 TDOT Field Sensors include VIVDS, RTMS, and any other type of vehicle detection.
 TDOT CCTV Cameras and Field Sensors are existing in other areas of the Region, but not within the Lakeway Region.
 The Cumberland Gap Tunnel Authority (CGTA) has two cameras located near their DMS within the Region. At this time the cameras are only accessible by the CGTA via dial up connection. With improved communications in the future it is likely that these feeds will be shared with TDOT.

**ATMS01 – Network Surveillance
Cumberland Gap Tunnel Authority**

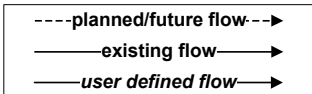
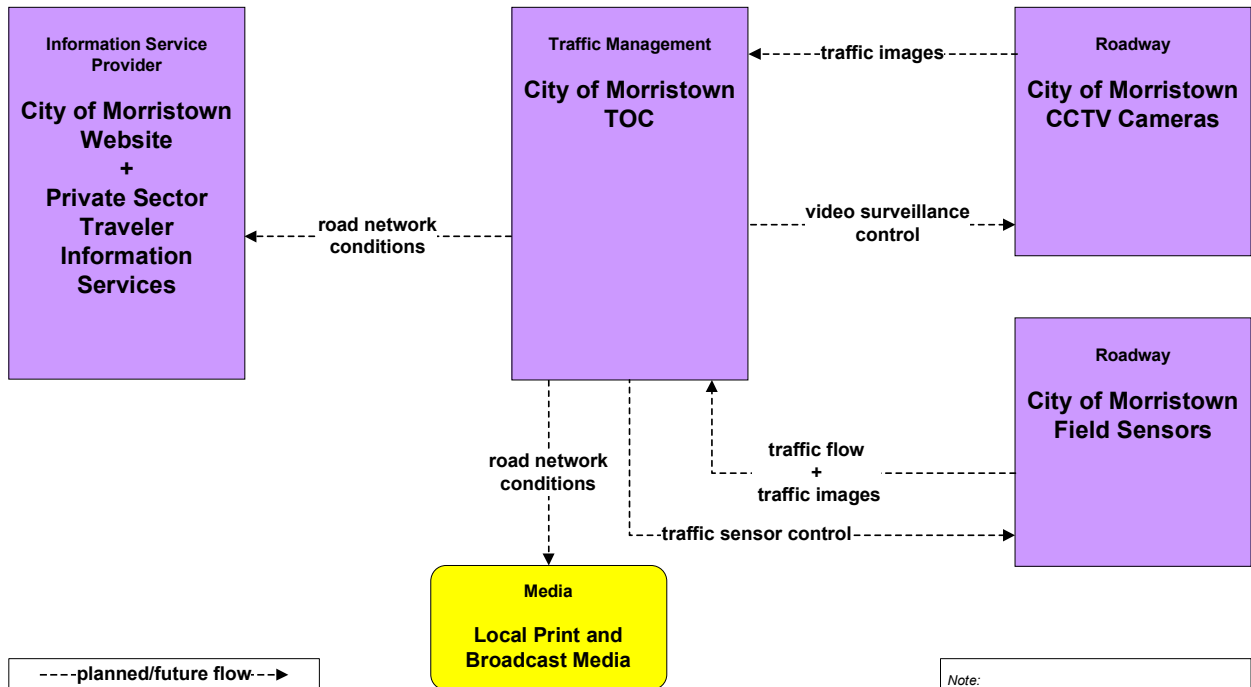


Note:
The Cumberland Gap Tunnel Authority (CGTA) has two cameras located near their DMS within the Region. At this time the cameras are only accessible by the CGTA via dial up connection. With improved communications in the future it is likely that these feeds will be shared with TDOT.

Other network surveillance aspects of the CGTA were not included because they have no impact on the Region and are instead included in their own Regional Architecture.

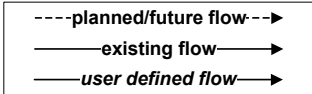
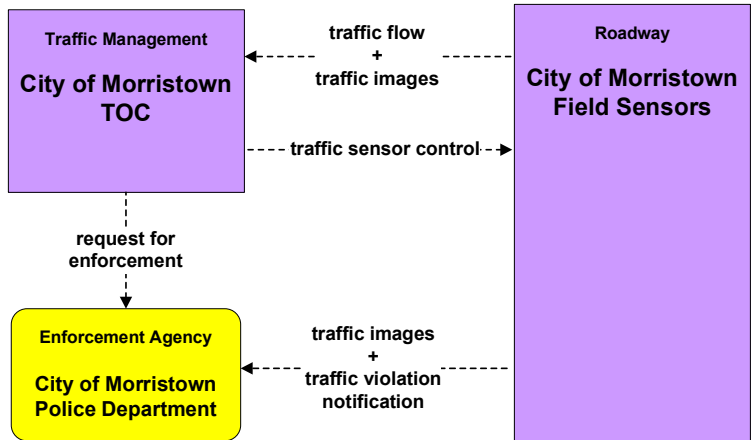


**ATMS01 – Network Surveillance
City of Morristown**

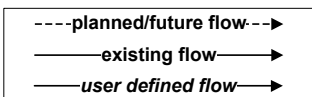
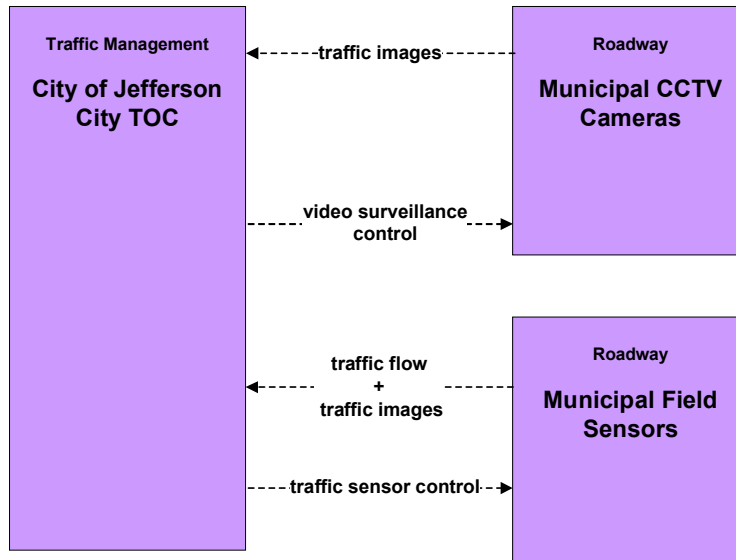


Note:
City of Morristown Field Sensors include VIVDS and any other type of vehicle detection.

**ATMS01 – Network Surveillance
City of Morristown Commercial Vehicle Route Enforcement**

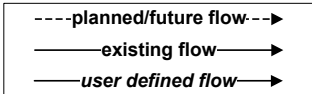
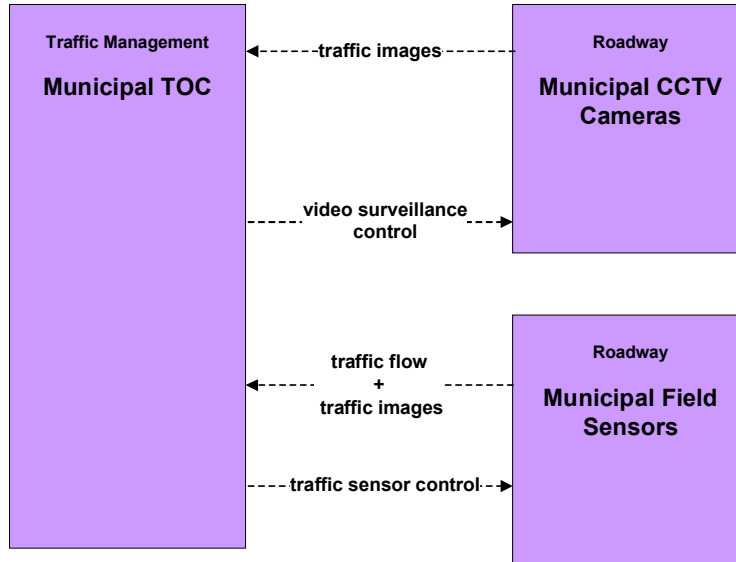


**ATMS01 – Network Surveillance
City of Jefferson City**



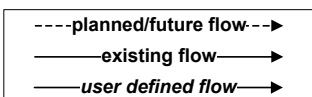
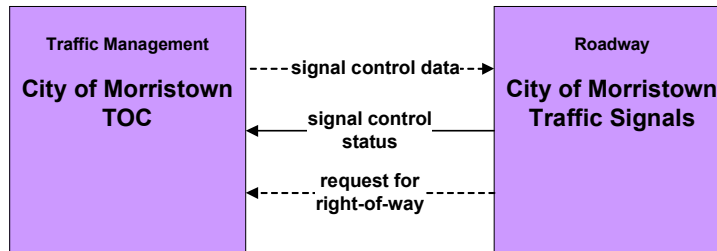
*Note:
Municipal Field Sensors include VIVDS and any other type of vehicle detection.*

**ATMS01 – Network Surveillance
Municipal**

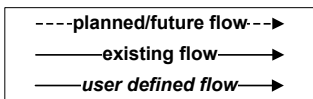
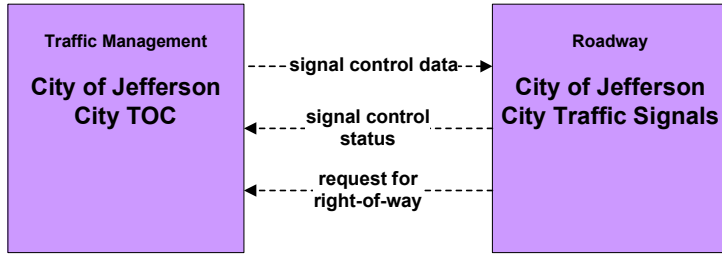


*Note:
Municipal Field Sensors include VIVDS and any other type of vehicle detection.*

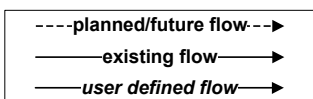
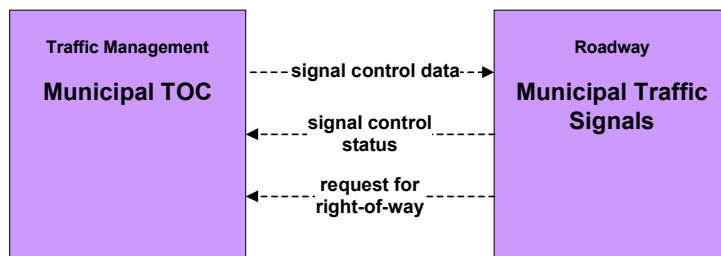
**ATMS03 – Surface Street Control
City of Morristown**



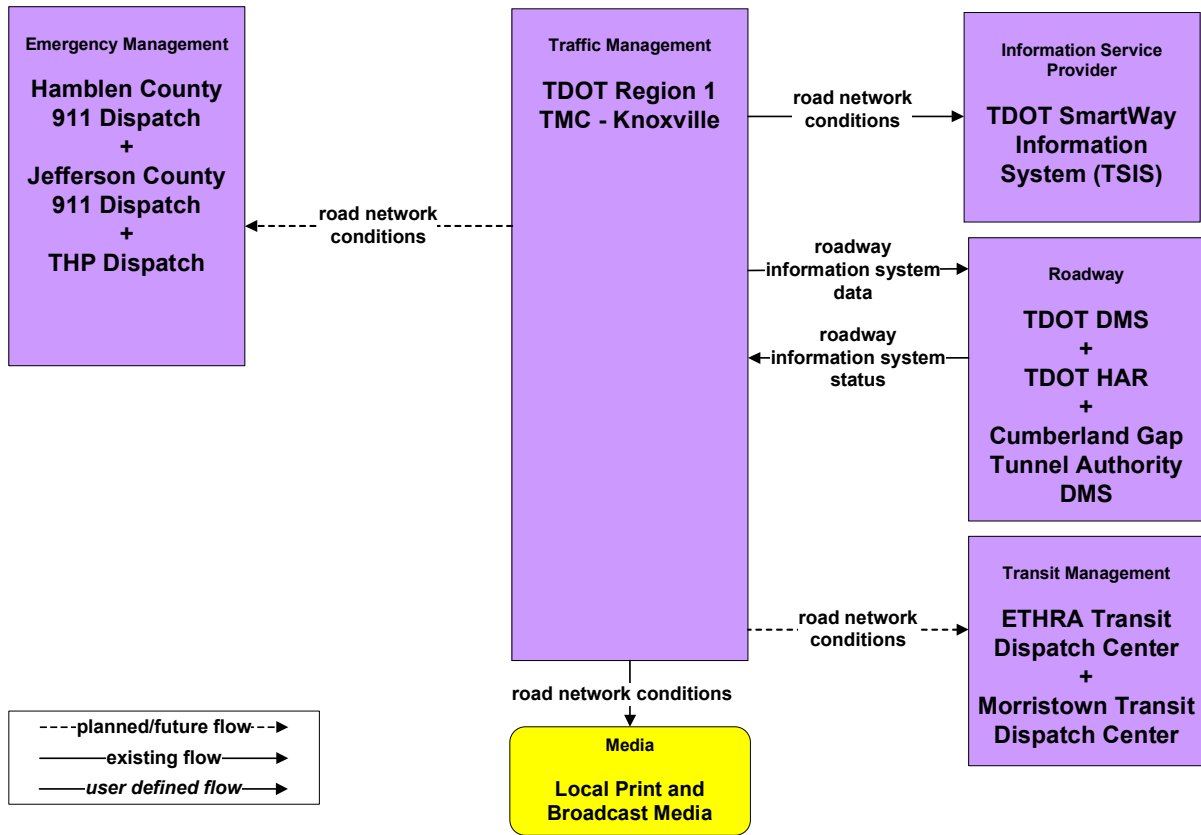
**ATMS03 – Surface Street Control
City of Jefferson City**



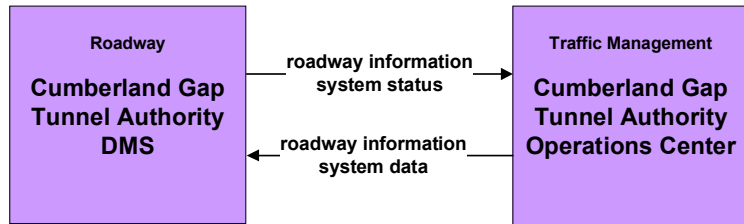
**ATMS03 – Surface Street Control
Municipal**



**ATMS06 – Traffic Information Dissemination
TDOT Region 1 TMC - Knoxville**

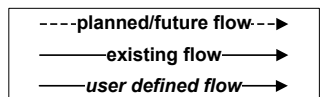


**ATMS06 – Traffic Information Dissemination
Cumberland Gap Tunnel Authority**

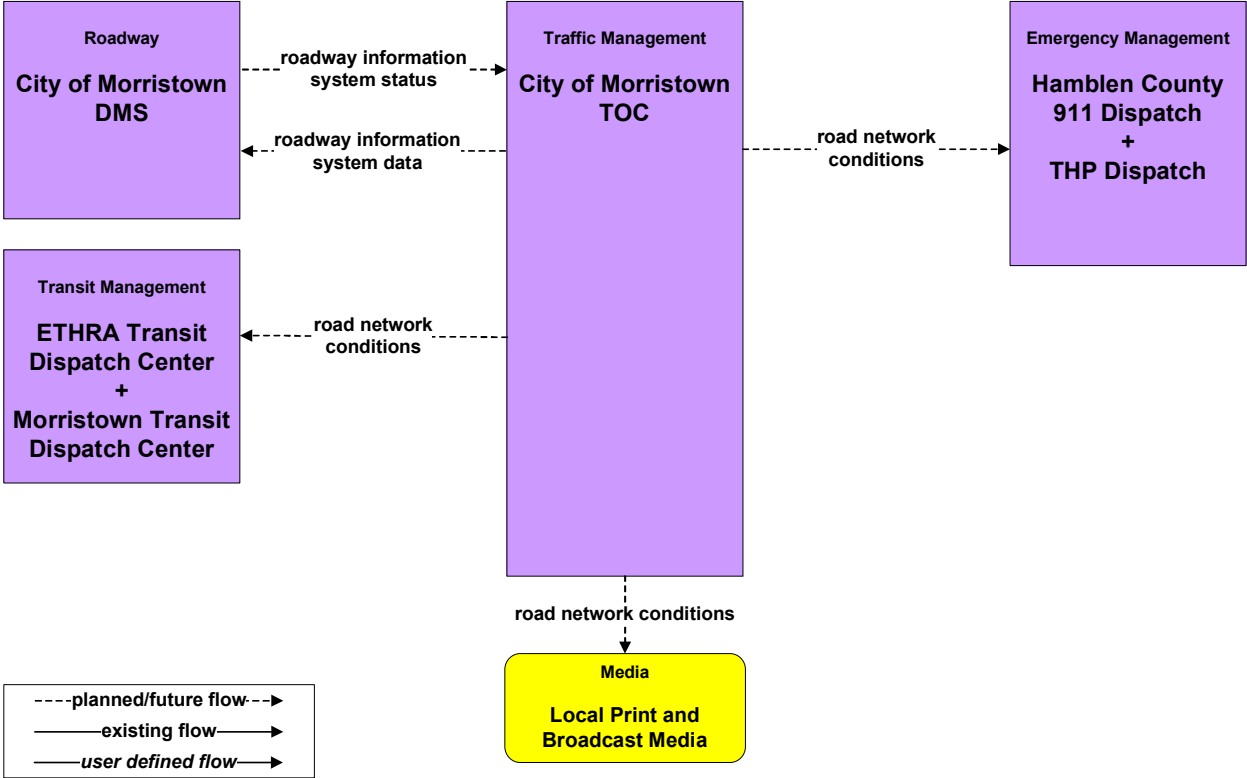


Note:
The Cumberland Gap Tunnel Authority (CGTA) has two DMS located within the Region. Both the CGTA and TDOT have access to place messages on the signs.

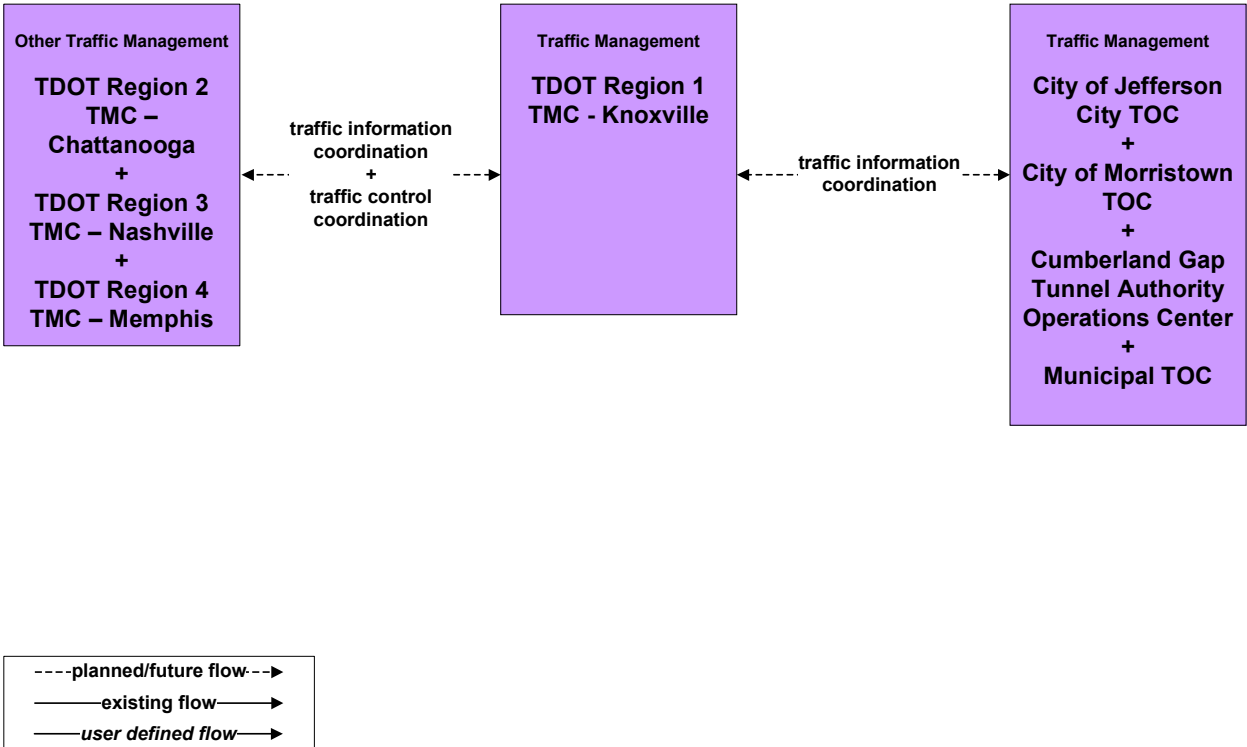
Other traffic information dissemination aspects of the CGTA were not included because they have no impact on the Region and are instead included in their own Regional Architecture.



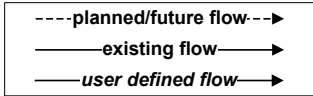
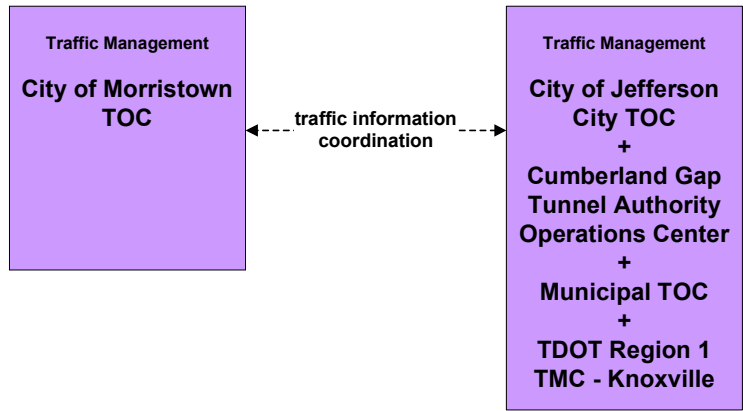
**ATMS06 – Traffic Information Dissemination
City of Morristown**



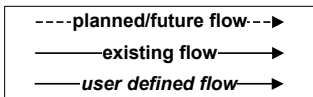
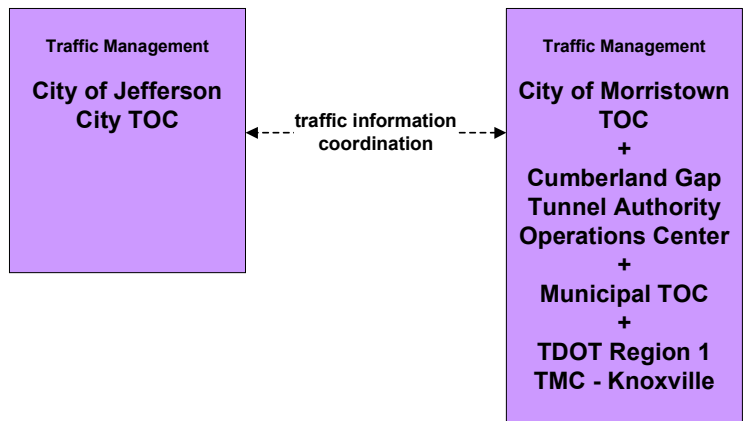
**ATMS07 - Regional Traffic Management
TDOT Region 1 TMC - Knoxville**



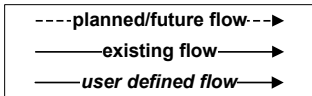
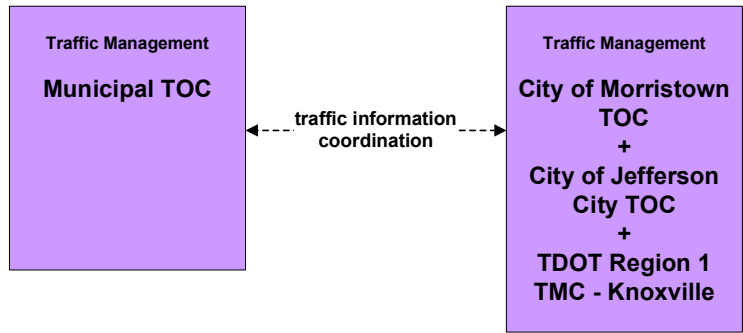
**ATMS07 – Regional Traffic Management
City of Morristown**



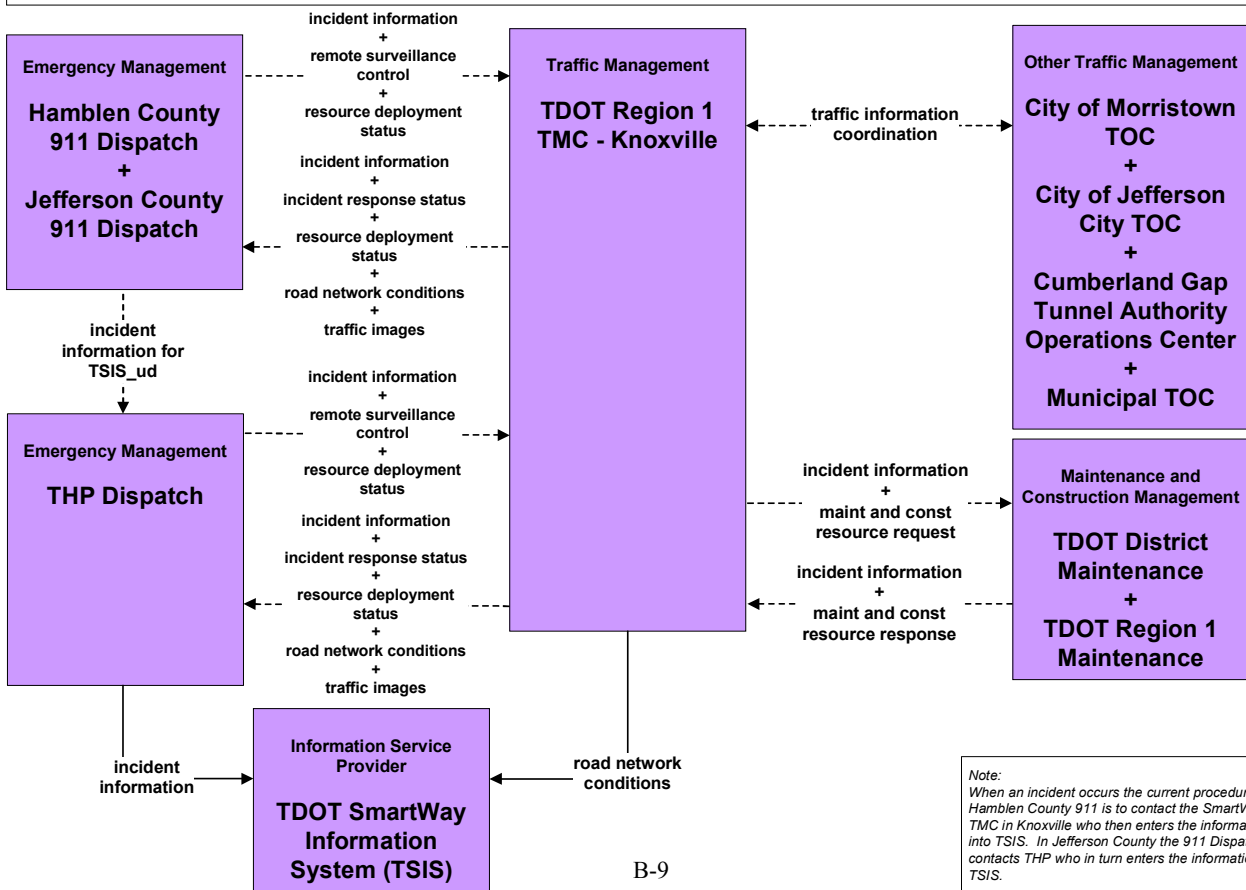
**ATMS07 – Regional Traffic Management
City of Jefferson City**



**ATMS07 – Regional Traffic Management
Municipal**

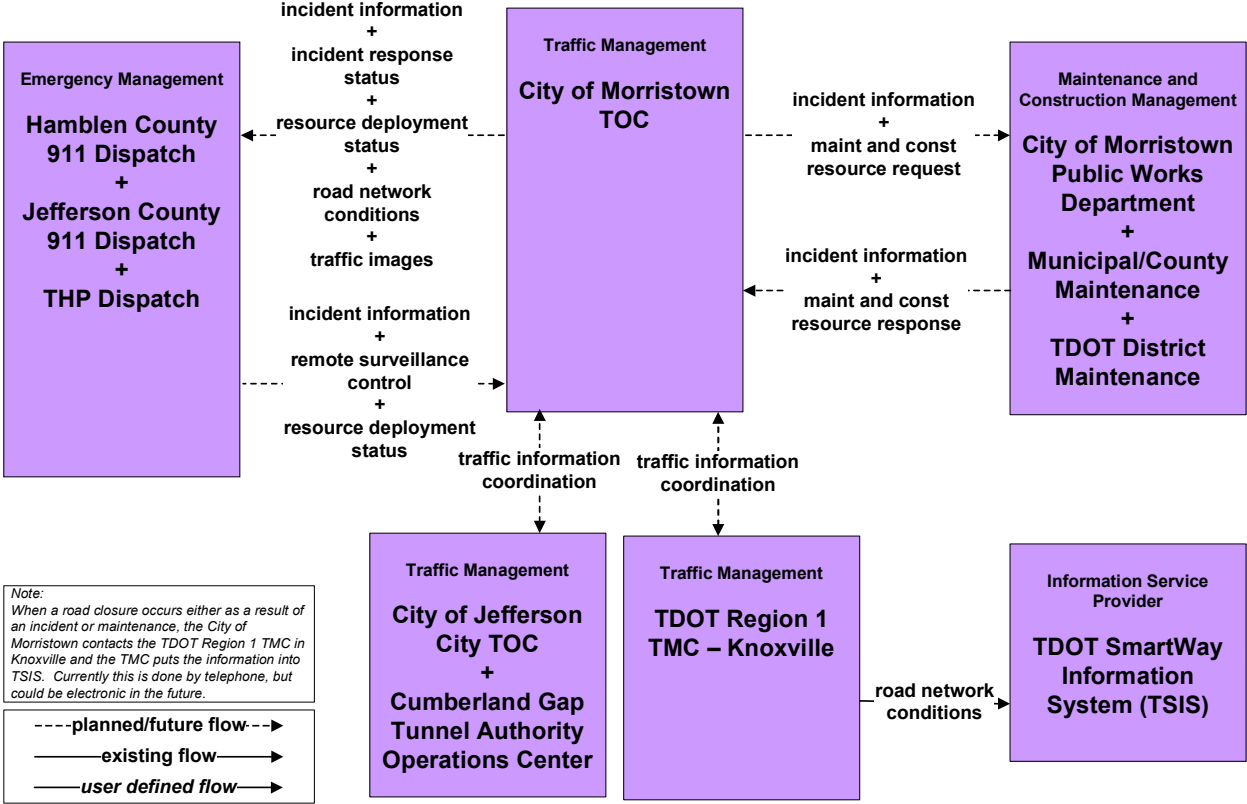


**ATMS08 - Traffic Incident Management System
TDOT Region 1 TMC - Knoxville**

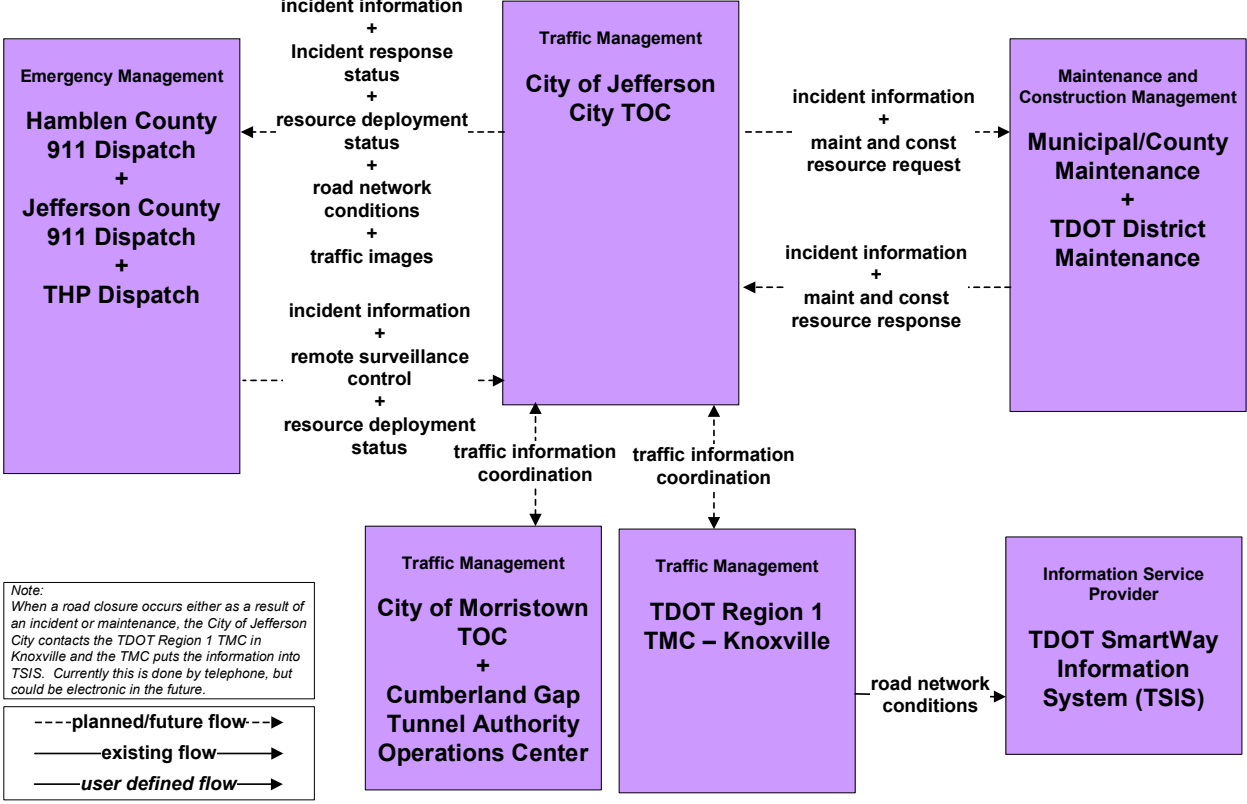


Note:
 When an incident occurs the current procedure for Hamblen County 911 is to contact the SmartWay TMC in Knoxville who then enters the information into TSIS. In Jefferson County the 911 Dispatch contacts THP who in turn enters the information into TSIS.

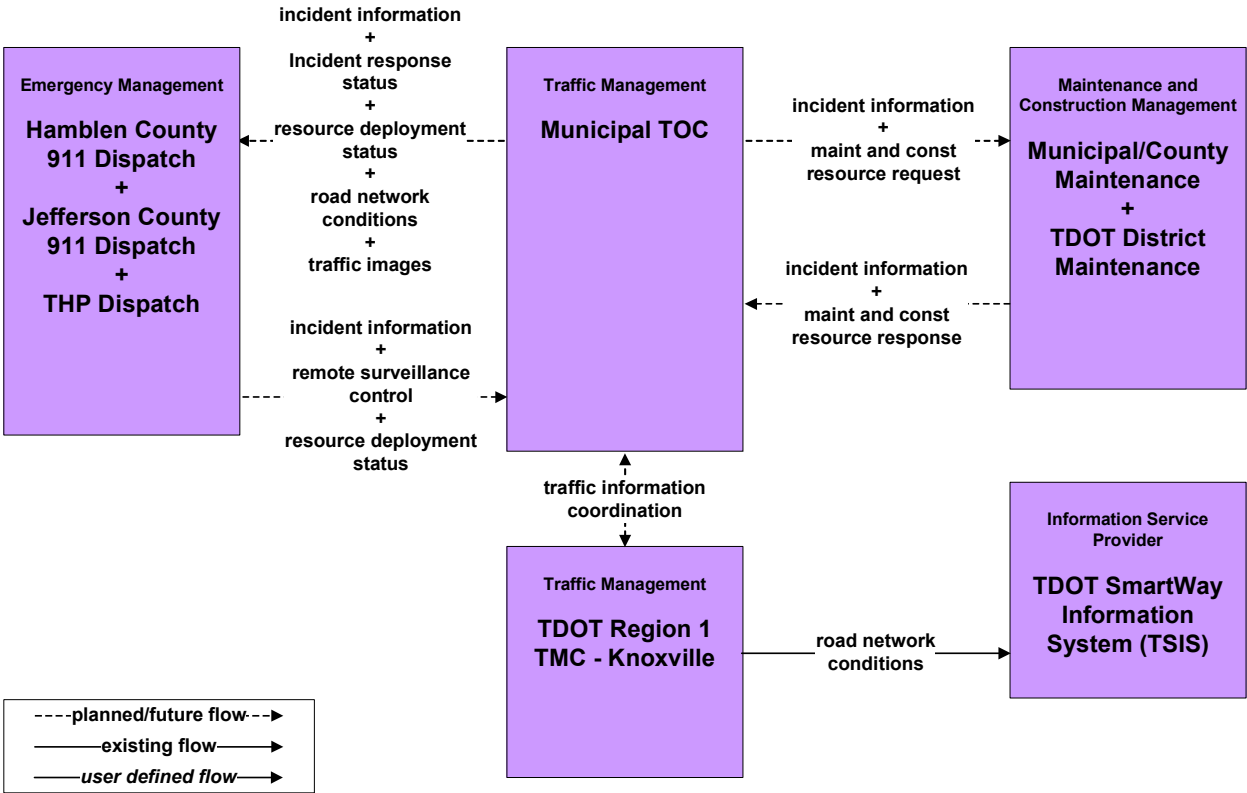
**ATMS08 - Traffic Incident Management System
City of Morristown**



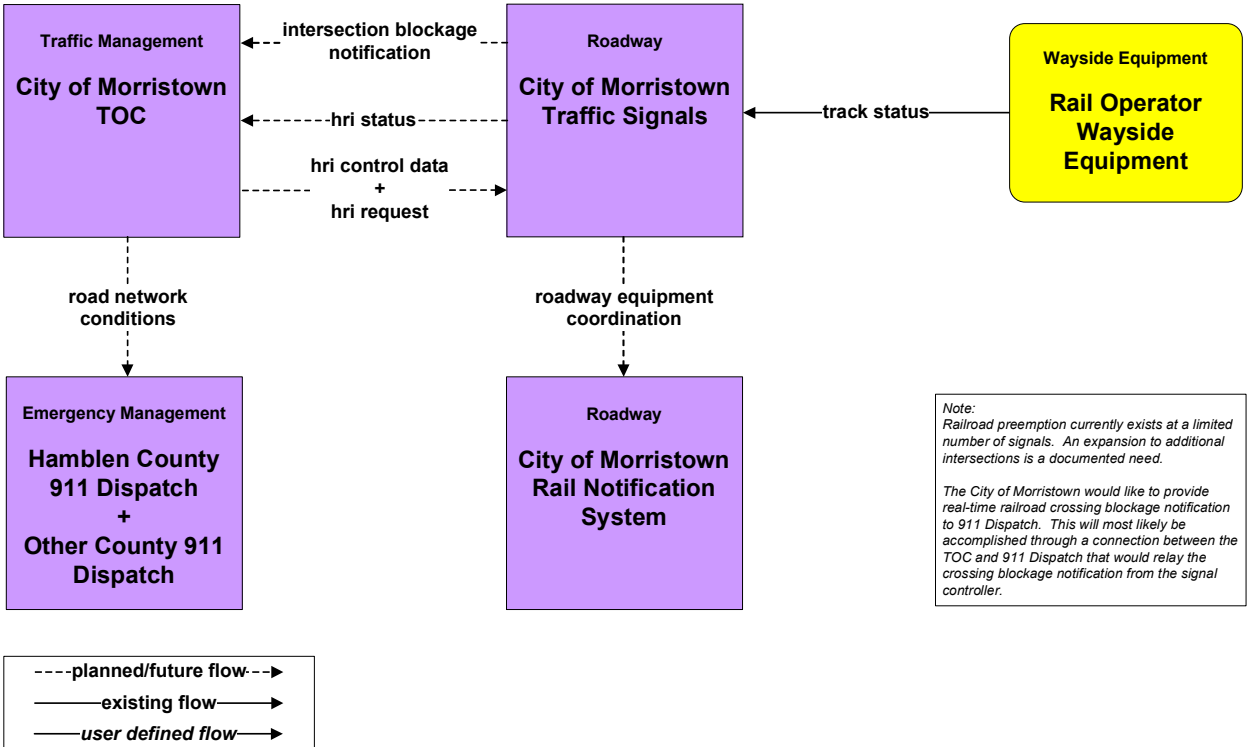
**ATMS08 - Traffic Incident Management System
City of Jefferson City**



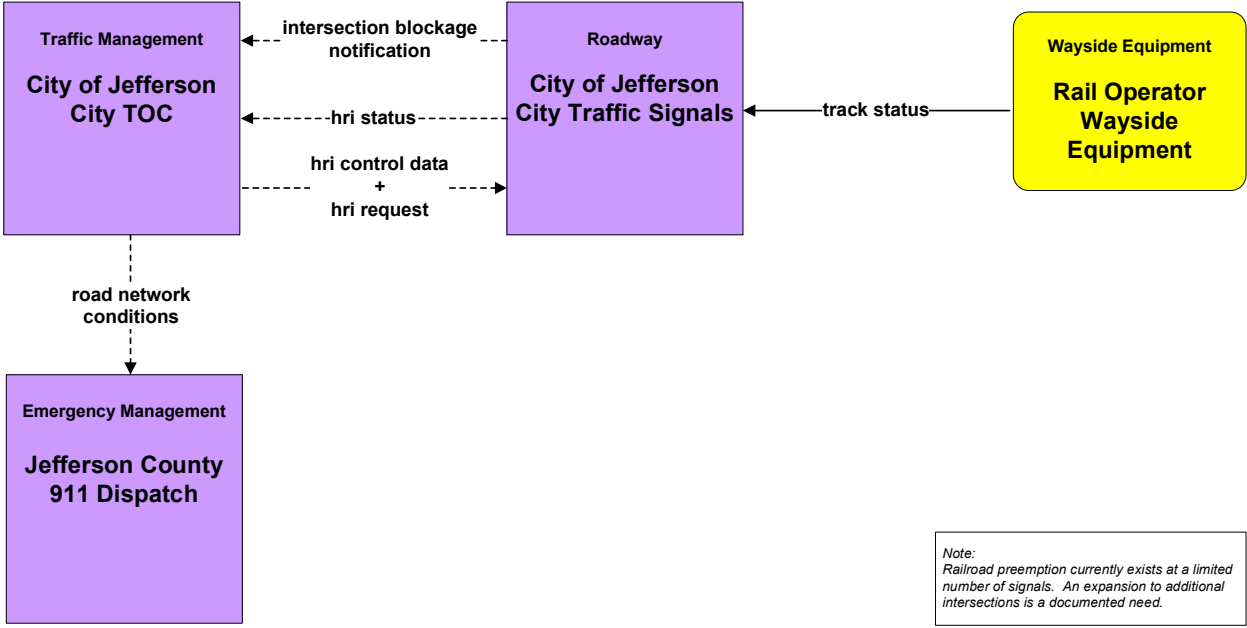
**ATMS08 - Traffic Incident Management System
Municipal**



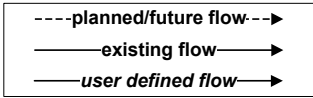
**ATMS13 – Standard Railroad Grade Crossing
City of Morristown**



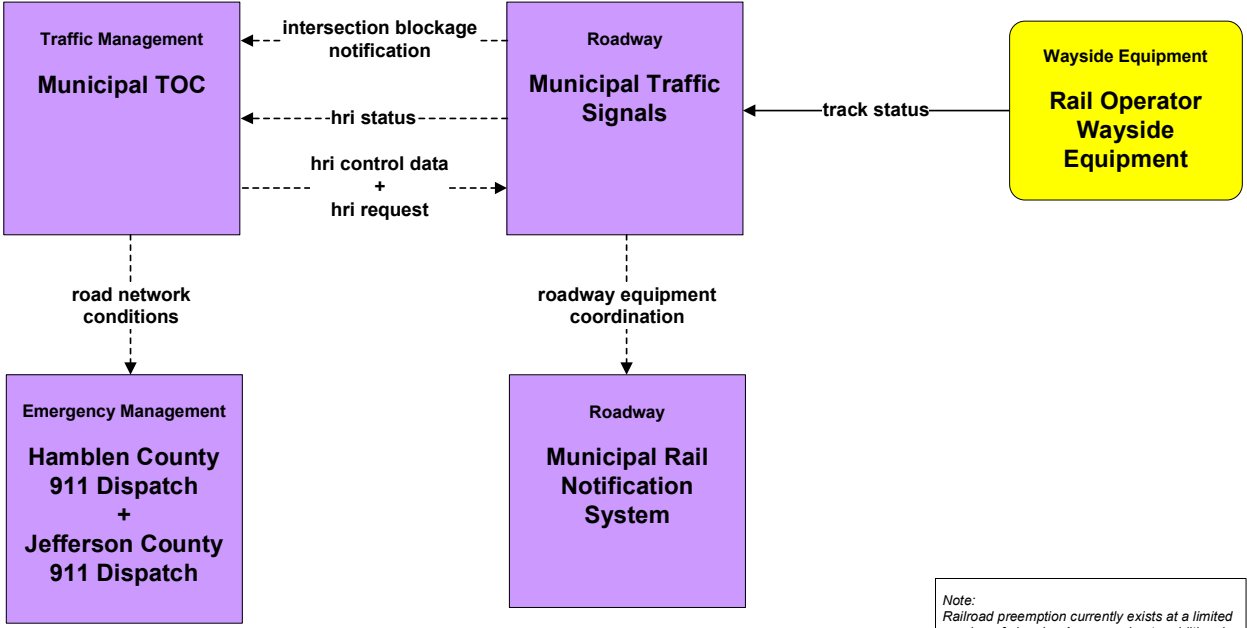
**ATMS13 – Standard Railroad Grade Crossing
City of Jefferson City**



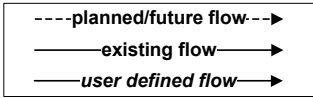
*Note:
Railroad preemption currently exists at a limited number of signals. An expansion to additional intersections is a documented need.*



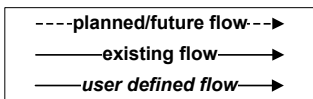
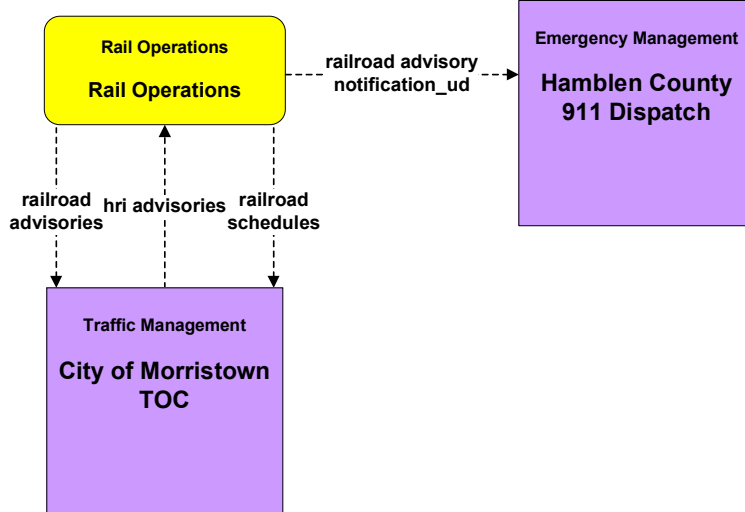
**ATMS13 – Standard Railroad Grade Crossing
Municipal**



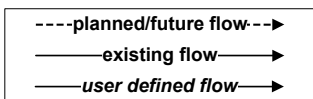
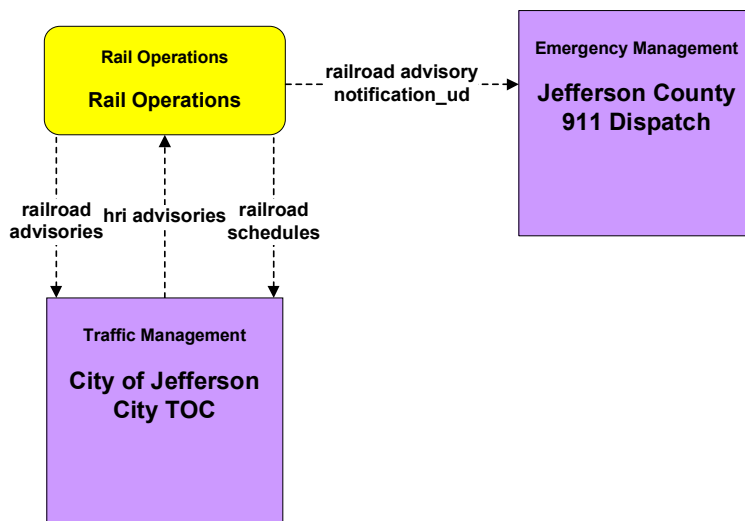
*Note:
Railroad preemption currently exists at a limited number of signals. An expansion to additional intersections is a documented need.*



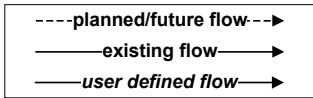
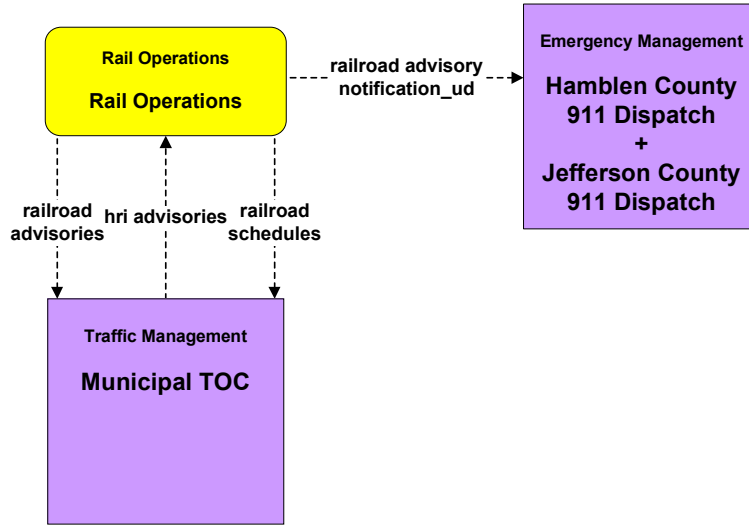
**ATMS15 – Railroad Operations Coordination
City of Morristown**



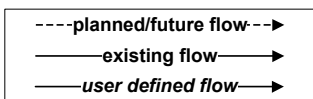
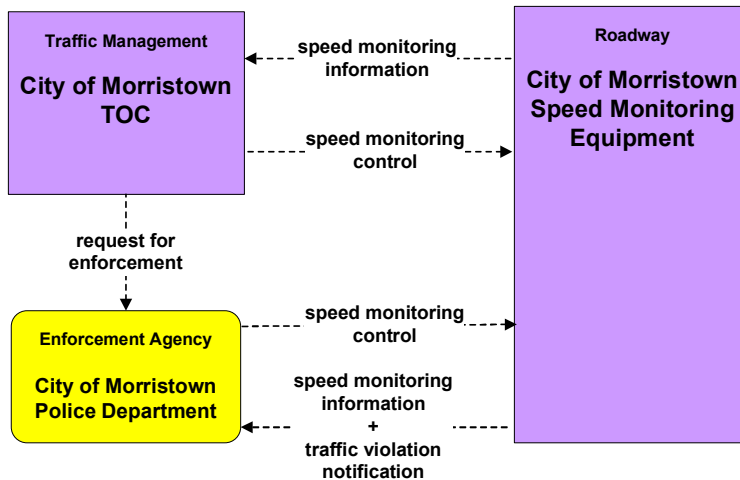
**ATMS15 – Railroad Operations Coordination
City of Jefferson City**



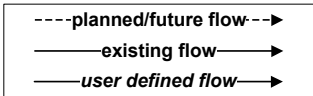
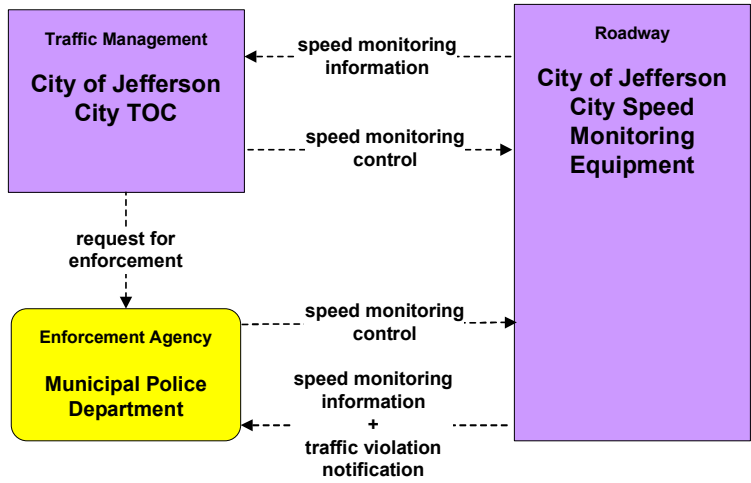
**ATMS15 – Railroad Operations Coordination
Municipal**



**ATMS19 – Speed Monitoring
City of Morristown**

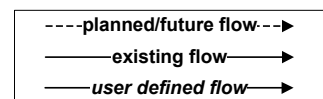
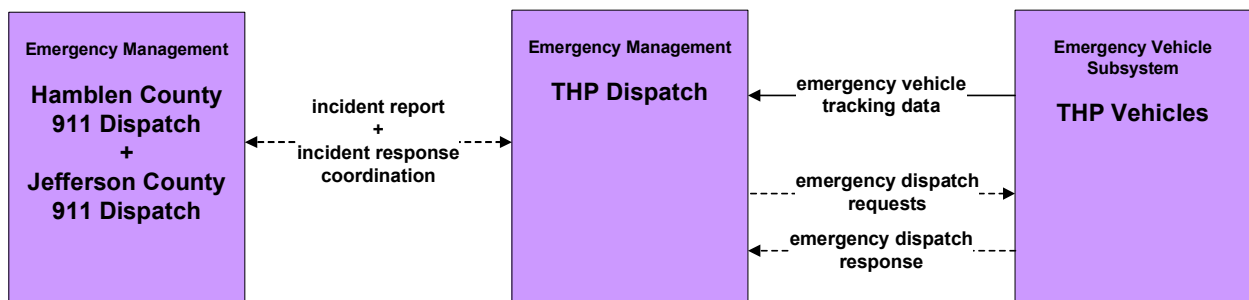


**ATMS19 – Speed Monitoring
City of Jefferson City**

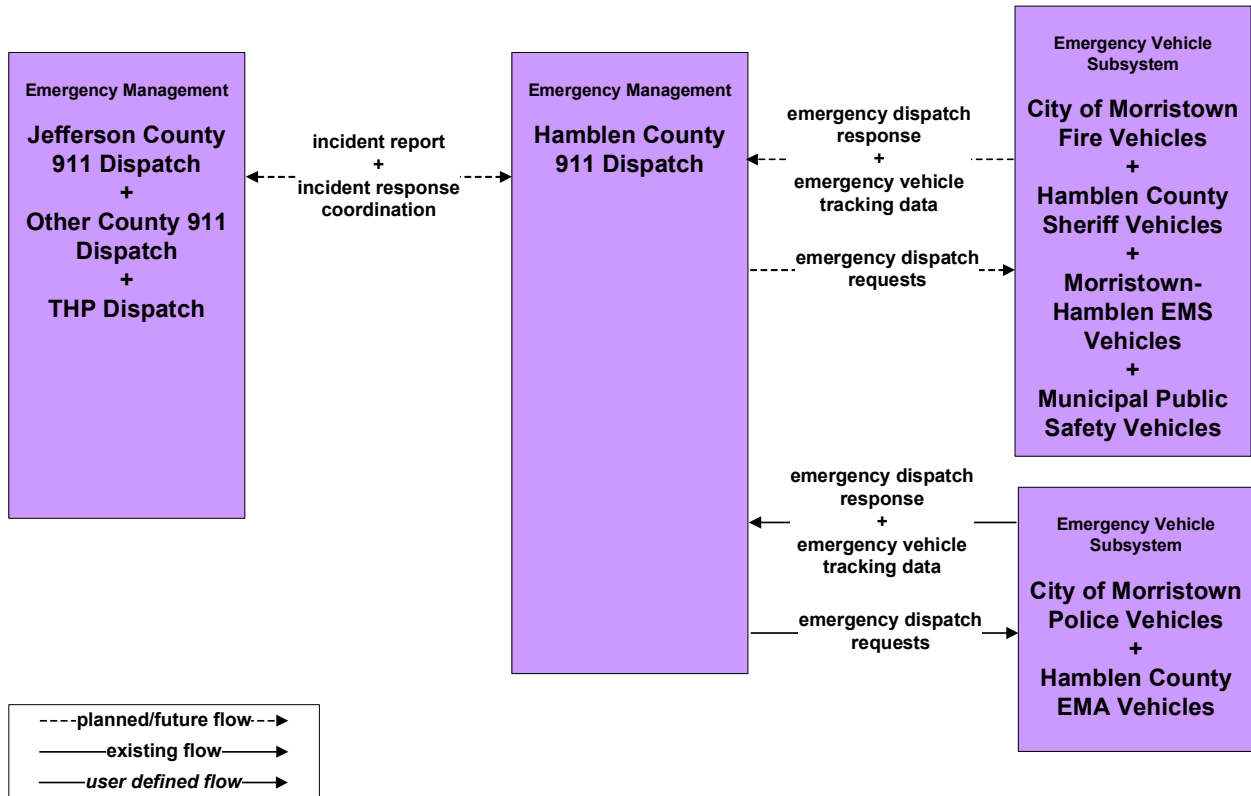


Emergency Management

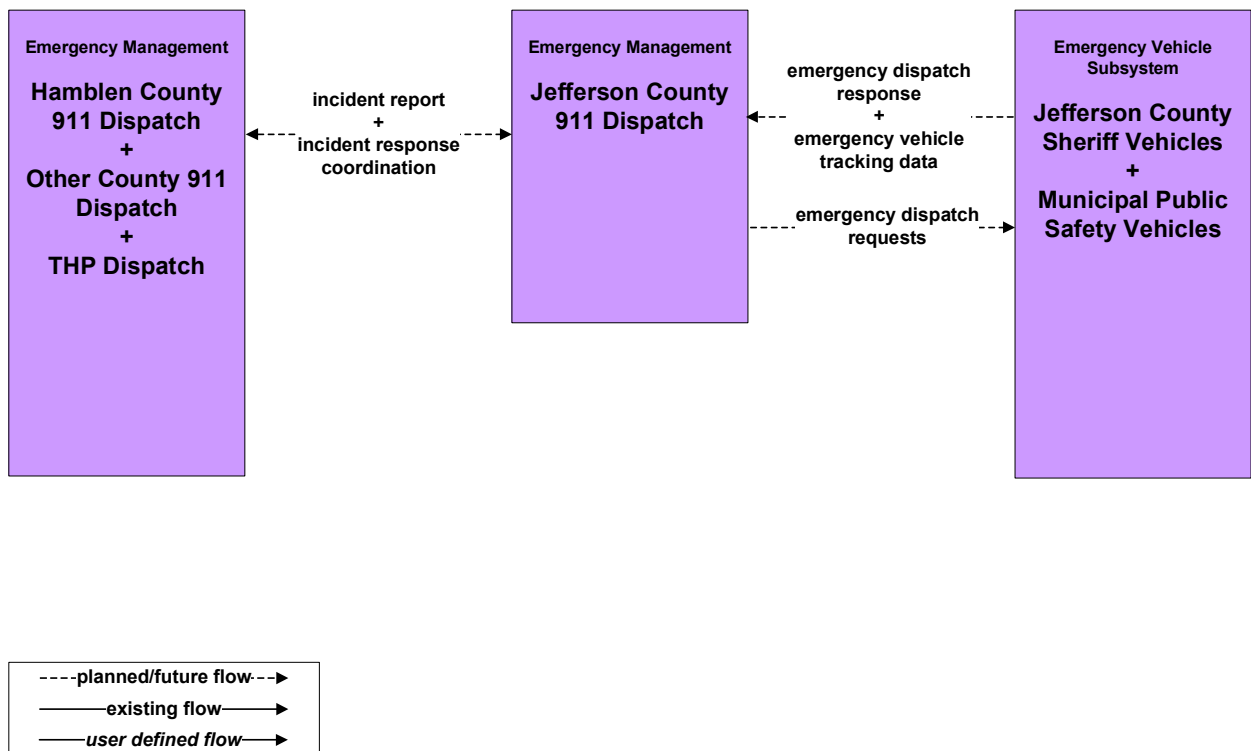
**EM01 - Emergency Call-Taking and Dispatch
Tennessee Highway Patrol**



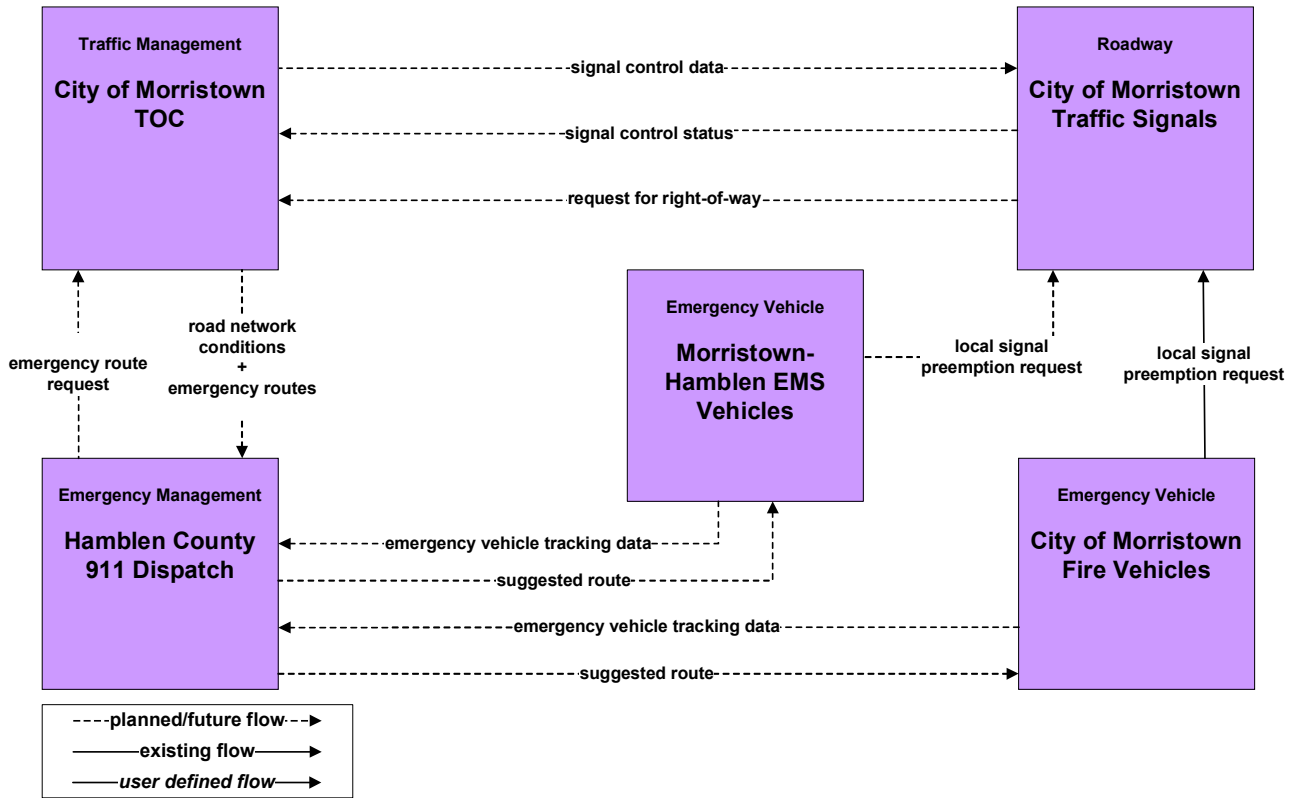
**EM01 - Emergency Call-Taking and Dispatch
Hamblen County 911 Dispatch**



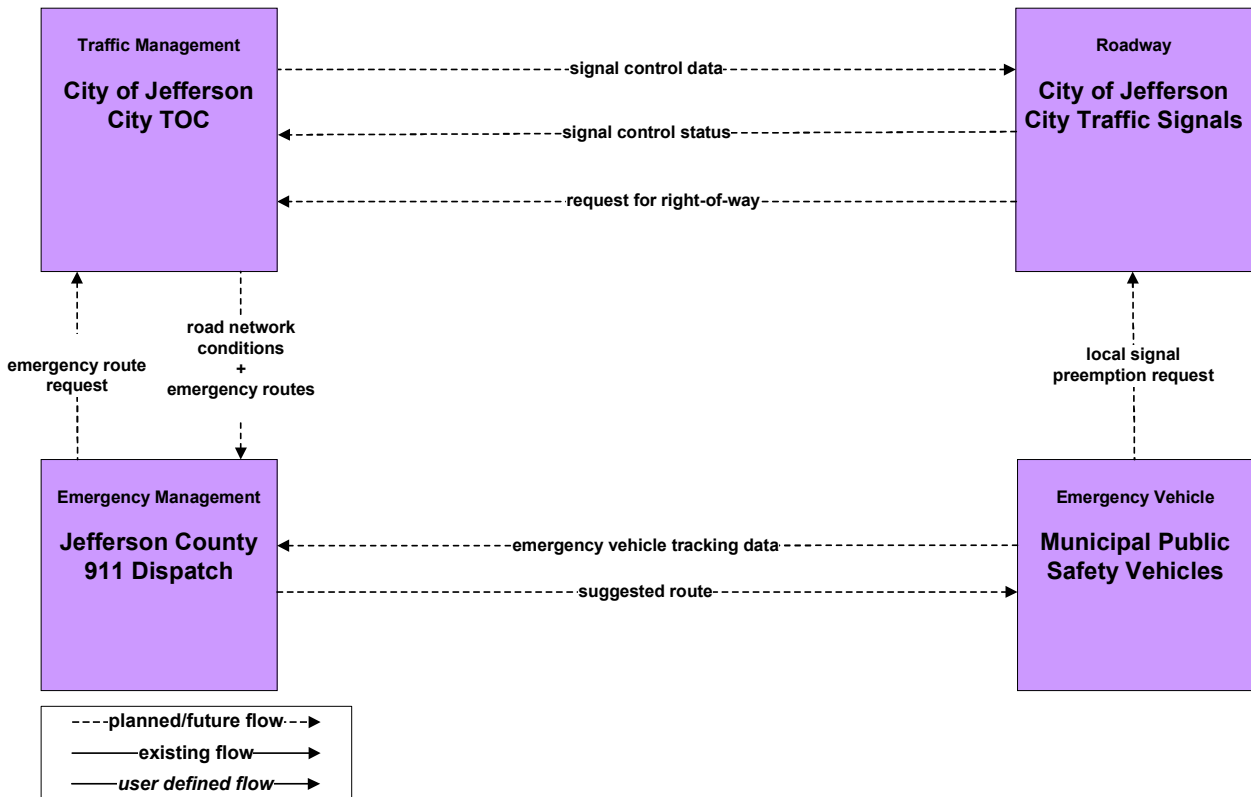
**EM01 - Emergency Call-Taking and Dispatch
Jefferson County 911 Dispatch**



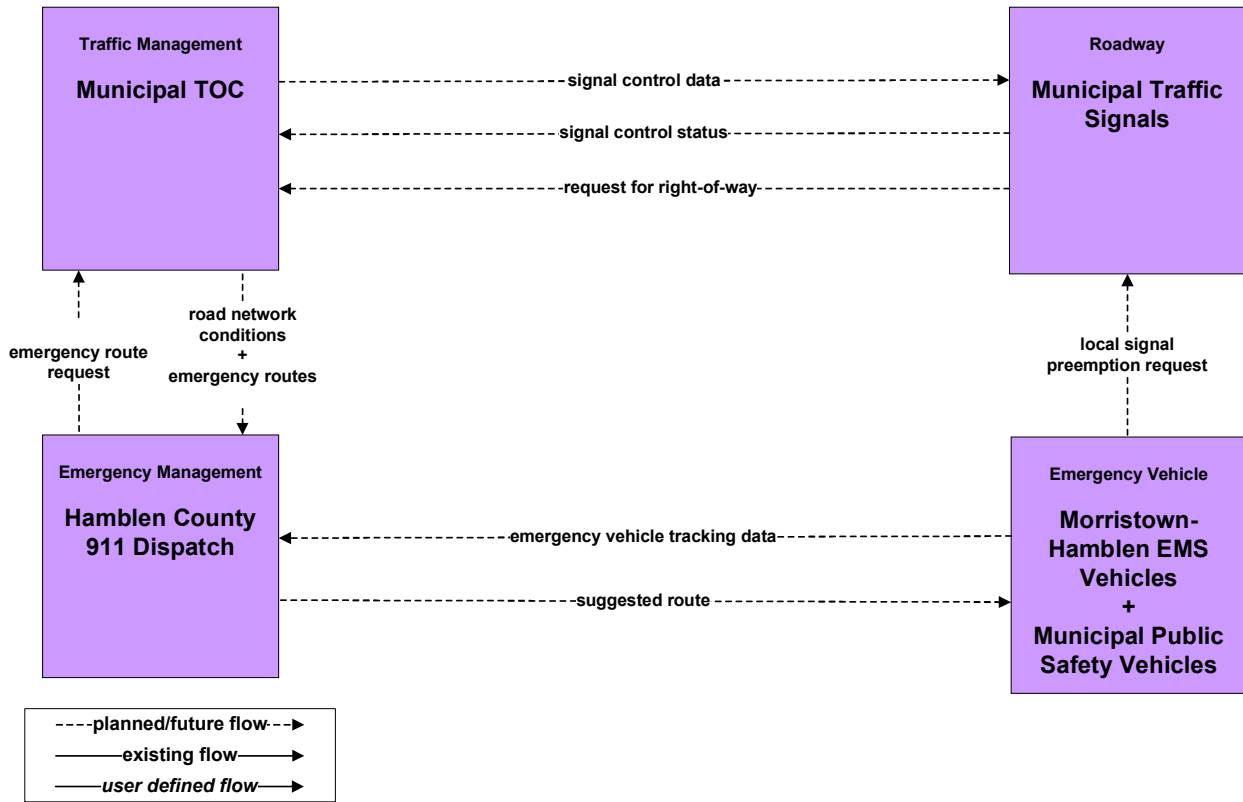
**EM02 – Emergency Routing
City of Morristown**



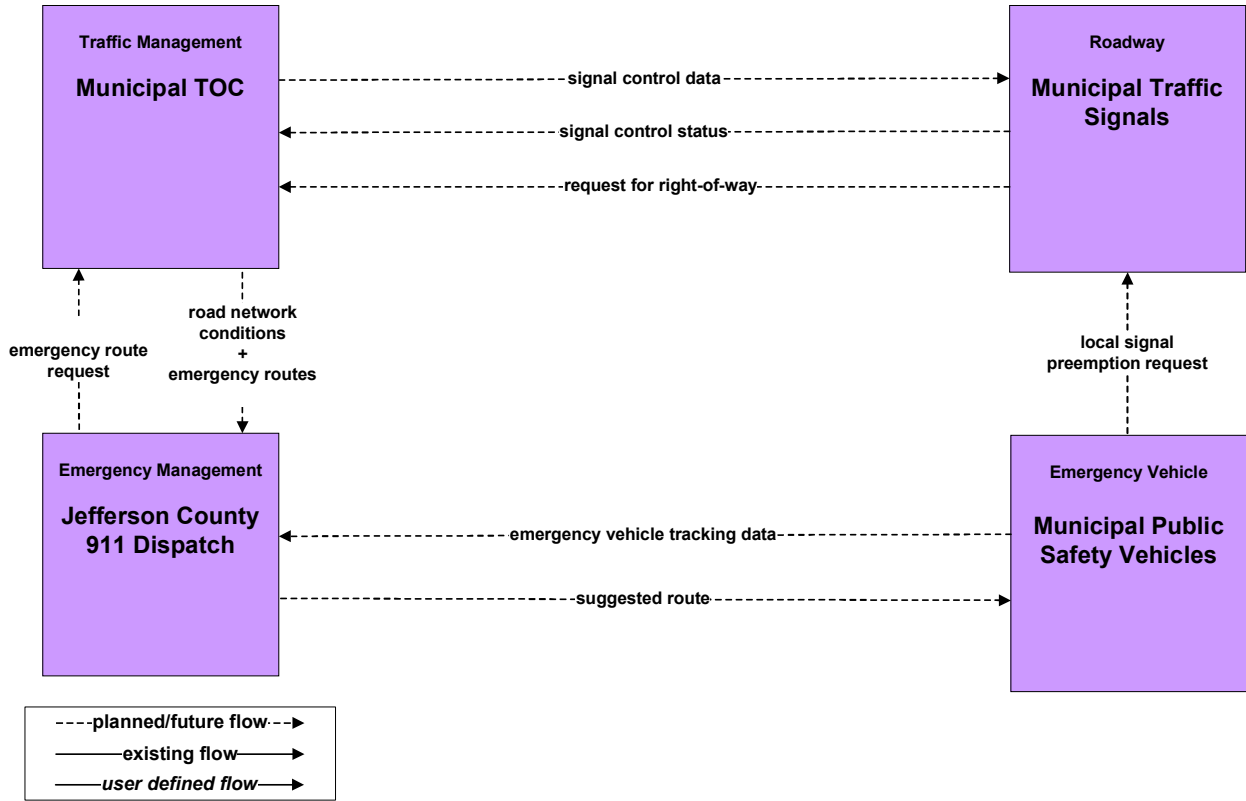
**EM02 – Emergency Routing
City of Jefferson City**



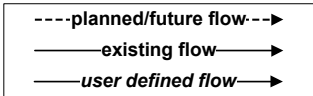
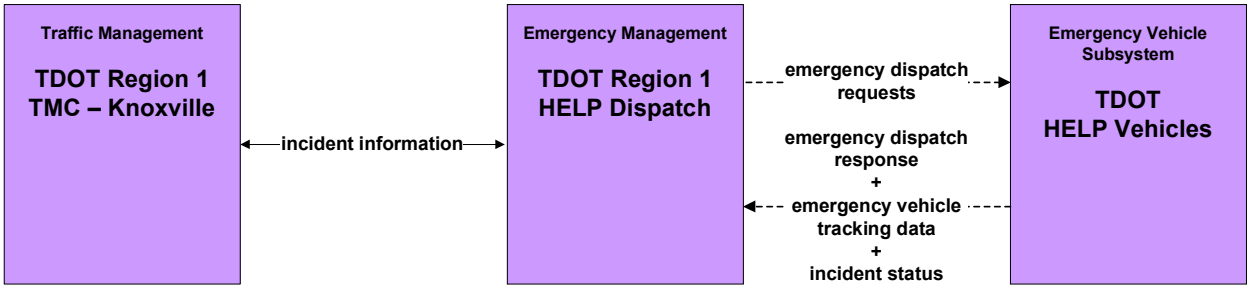
**EM02 – Emergency Routing
Hamblen County**



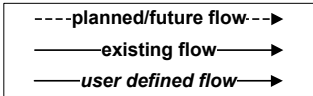
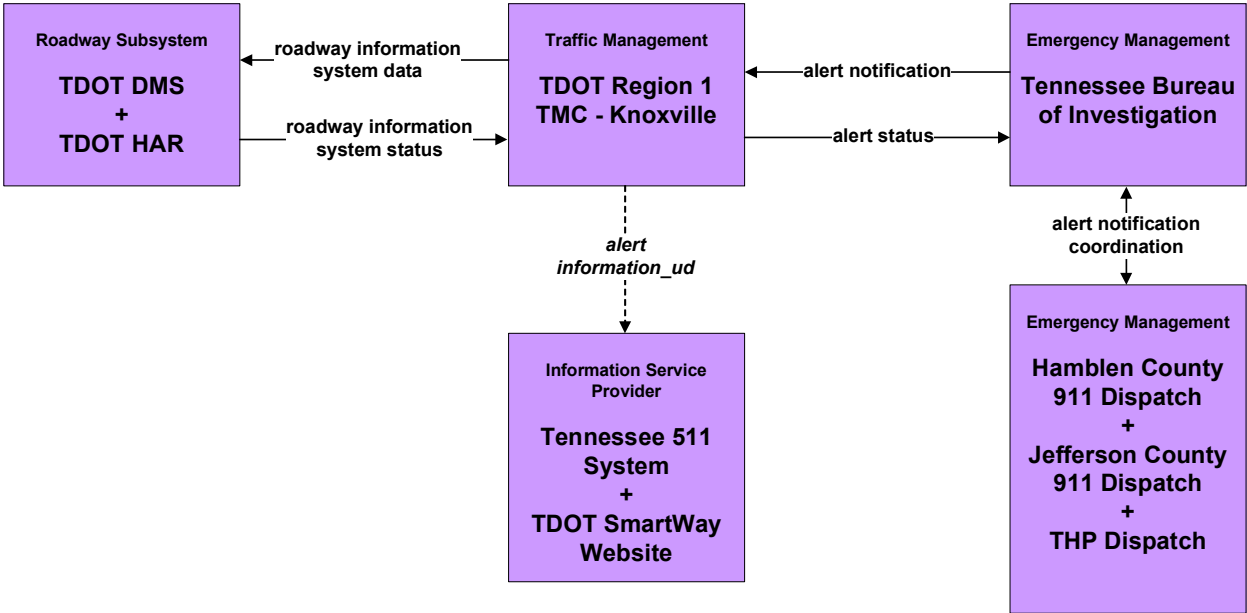
**EM02 – Emergency Routing
Jefferson County**



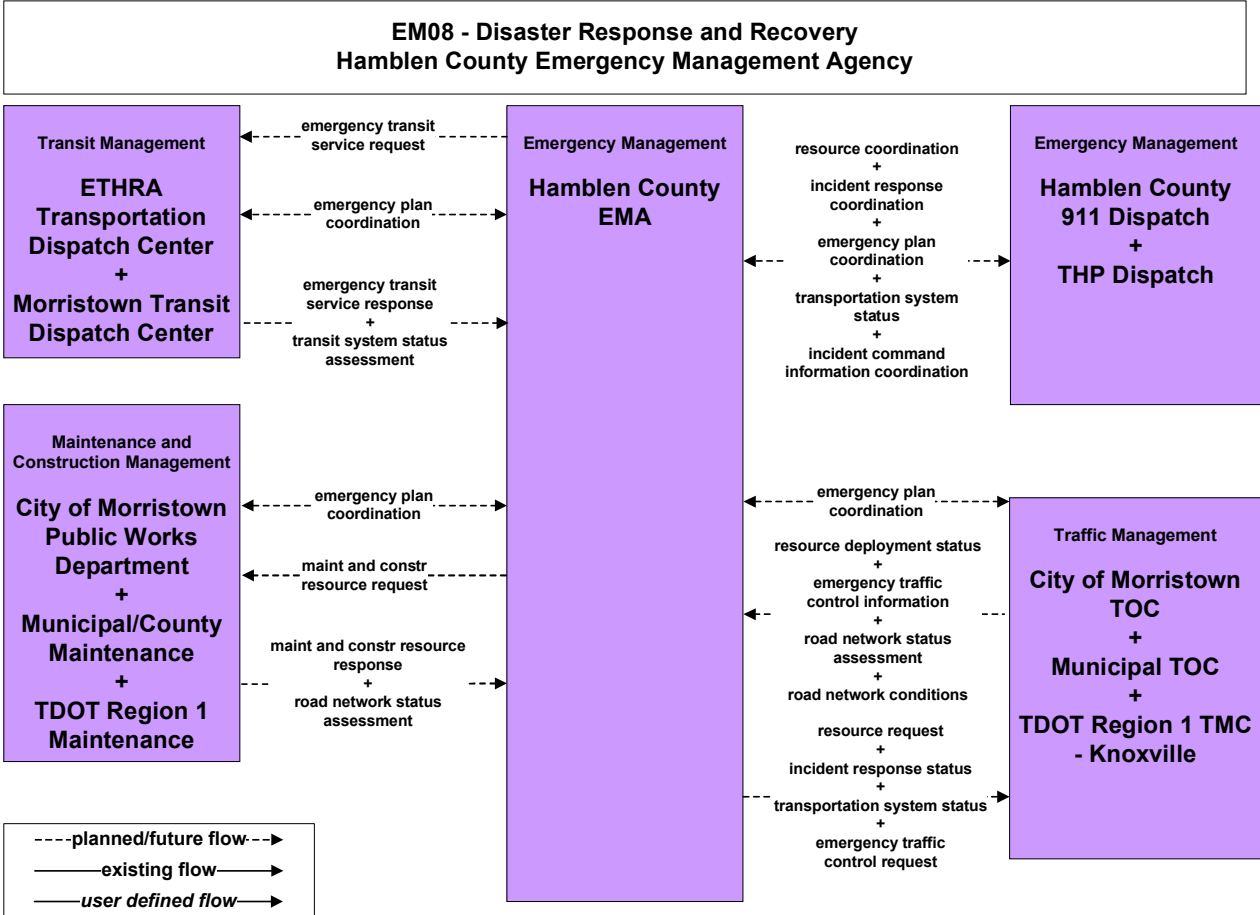
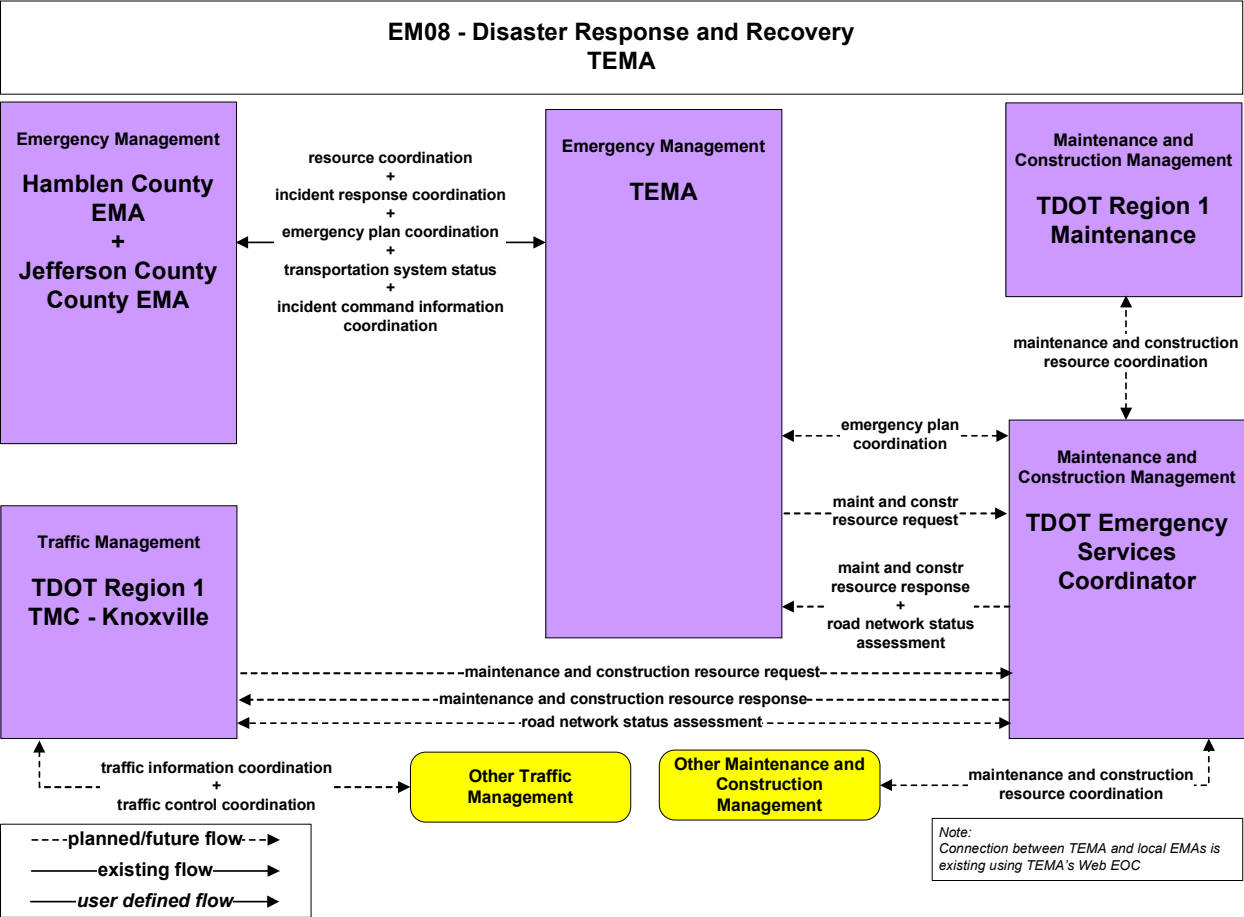
**EM04 – Roadway Service Patrols
HELP**



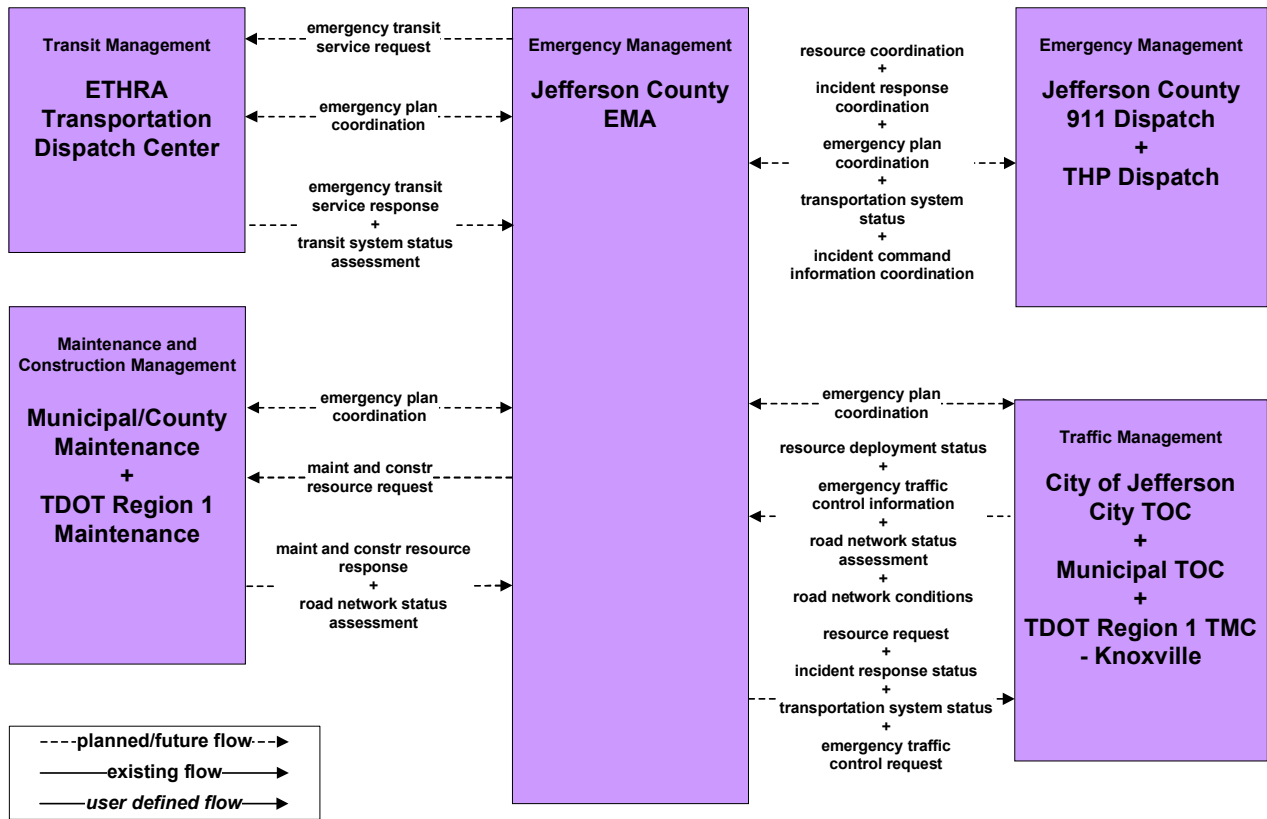
**EM06 - Wide-Area Alert
Tennessee AMBER Alert**



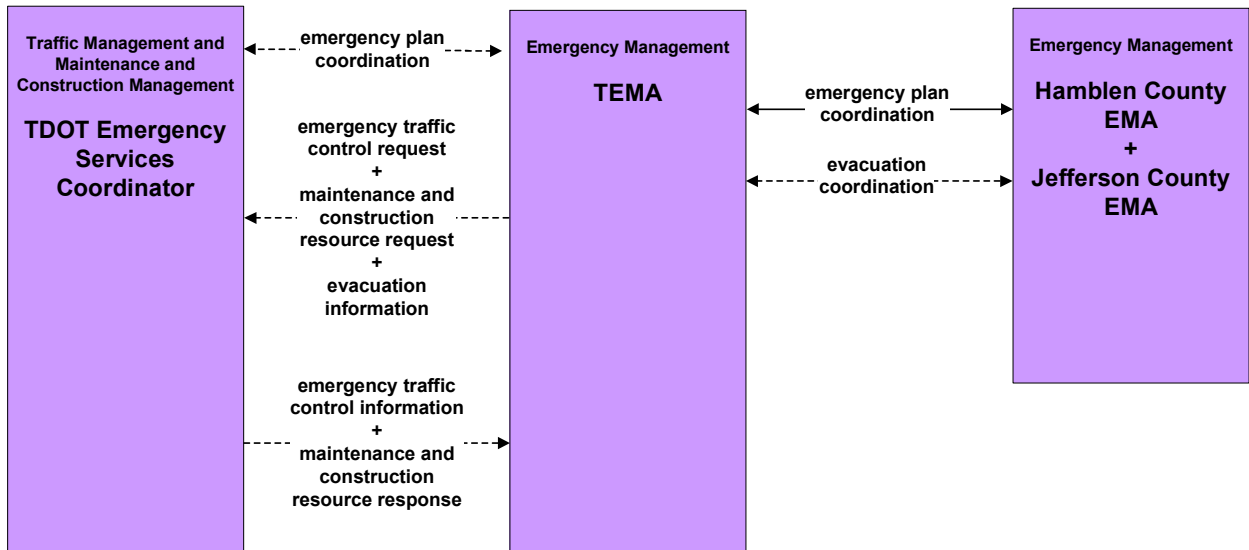
*Note:
Jefferson County 911 Dispatch also receives AMBER alert information from the Knox County local AMBER alert program.*



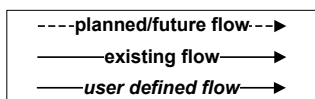
**EM08 - Disaster Response and Recovery
Jefferson County Emergency Management Agency**



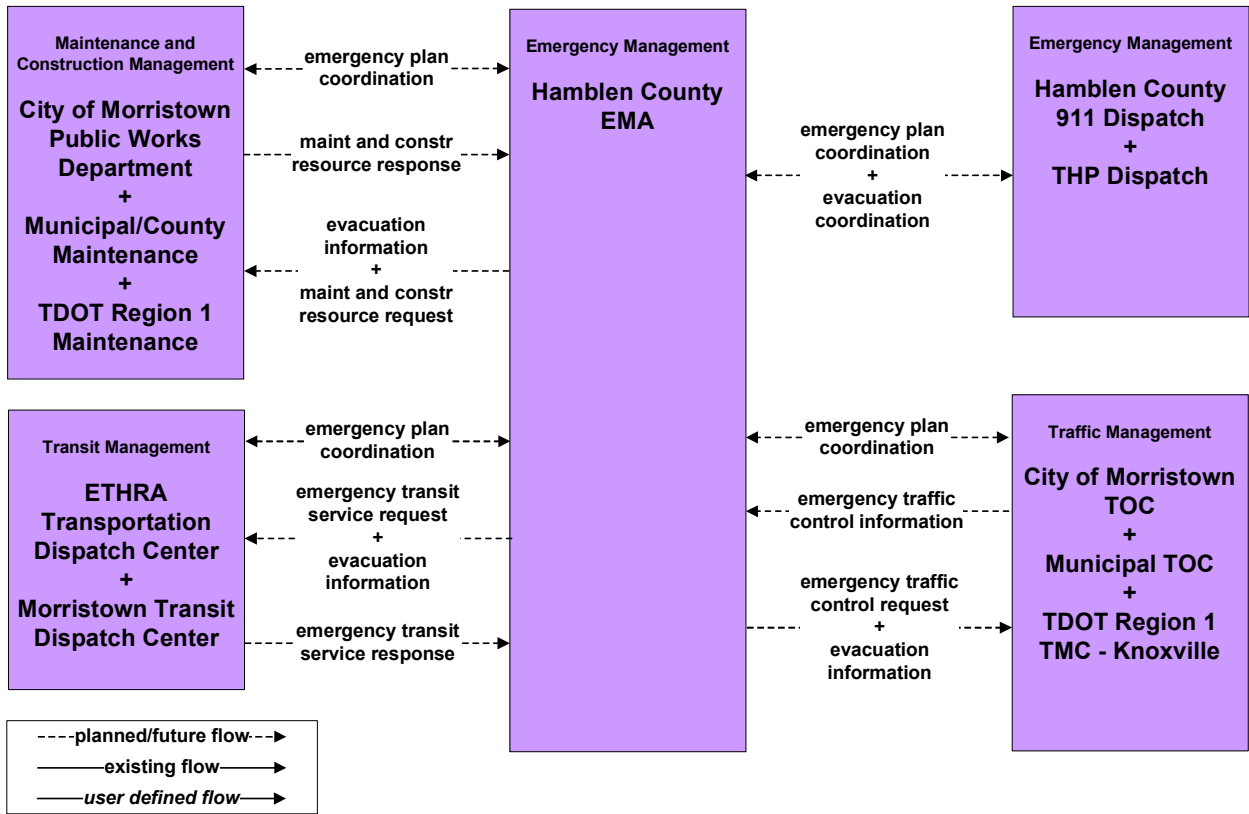
**EM09 - Evacuation and Reentry Management
TEMA**



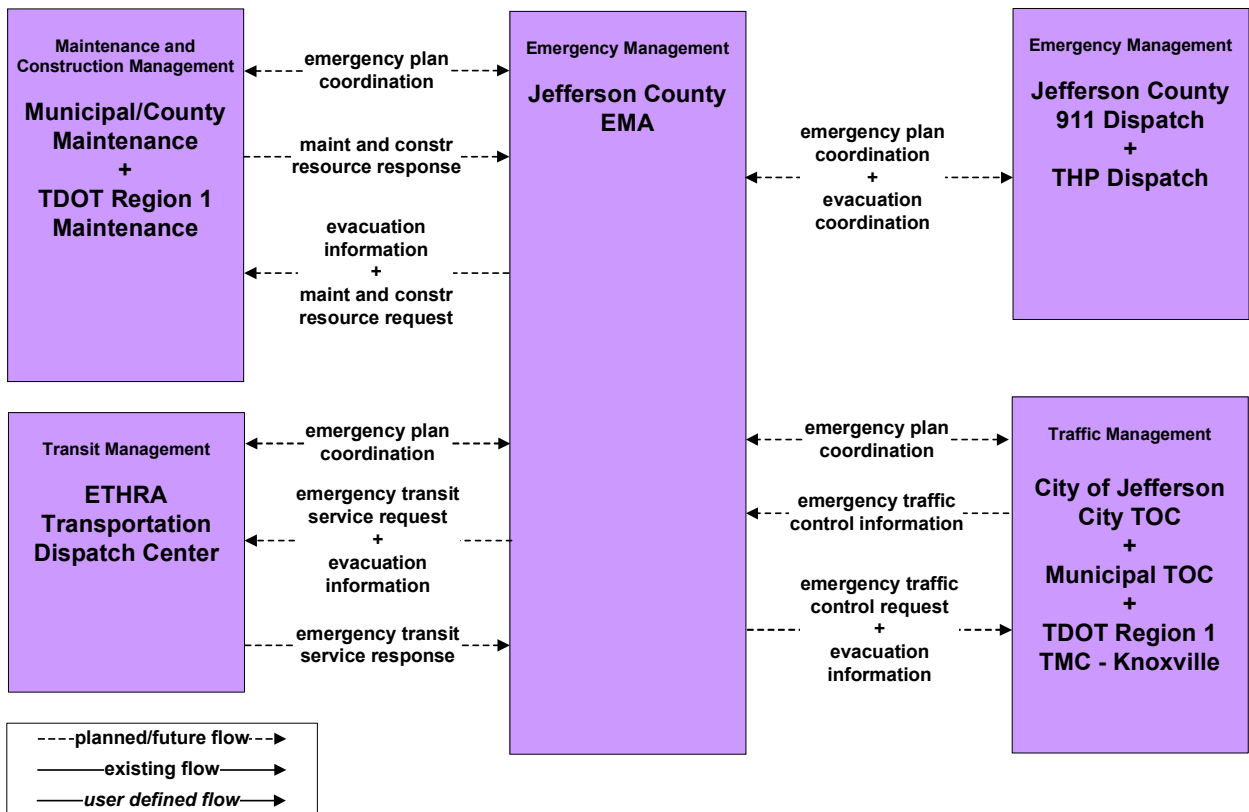
Note:
Connection between TEMA and local EMAs is existing using TEMA's Web EOC



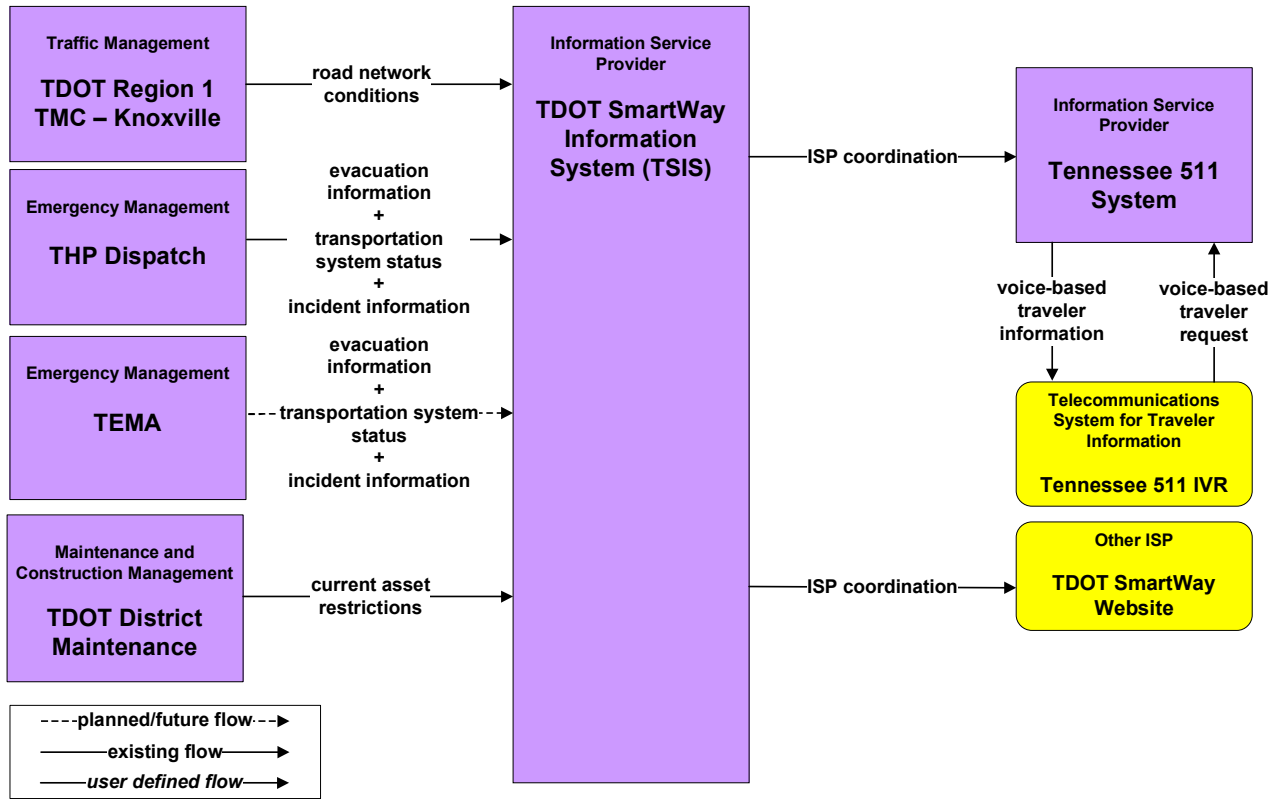
**EM09 - Evacuation and Reentry Management
Hamblen County Emergency Management Agency**



**EM09 - Evacuation and Reentry Management
Jefferson County Emergency Management Agency**

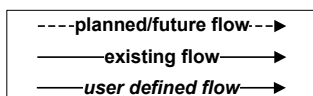
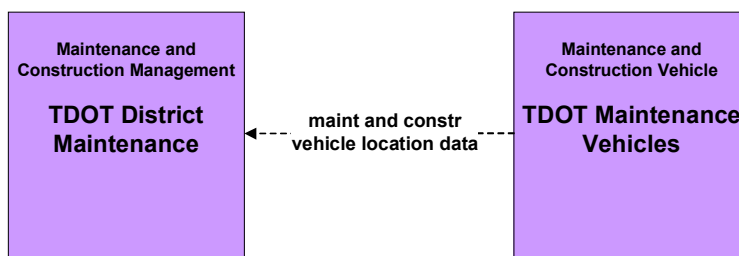


**EM10 – Disaster Traveler Information
Tennessee 511 and TSIS**

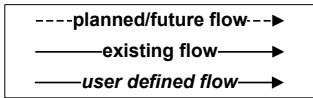


Maintenance and Construction Management

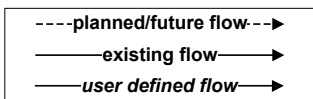
MC01 – Maintenance and Construction Vehicle and Equipment Tracking
TDOT District Maintenance



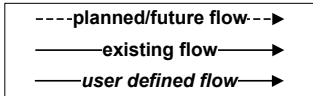
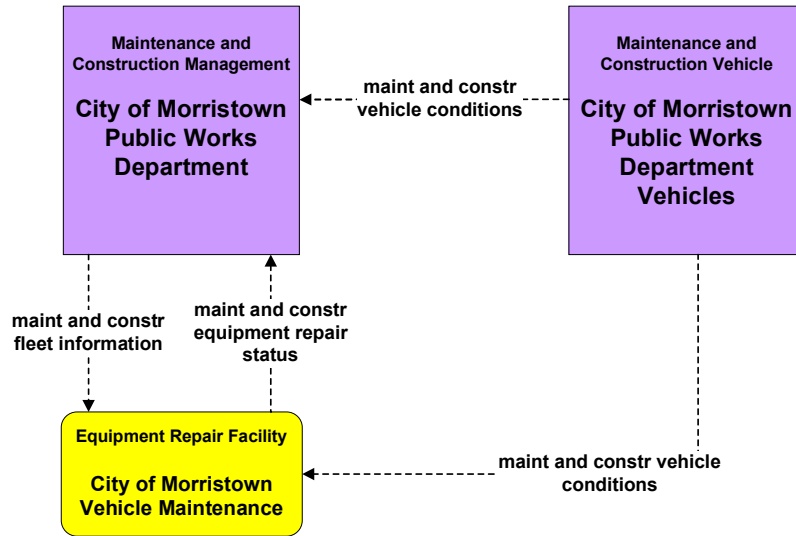
**MC01 – Maintenance and Construction Vehicle and Equipment Tracking
City of Morristown**



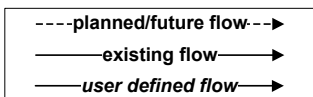
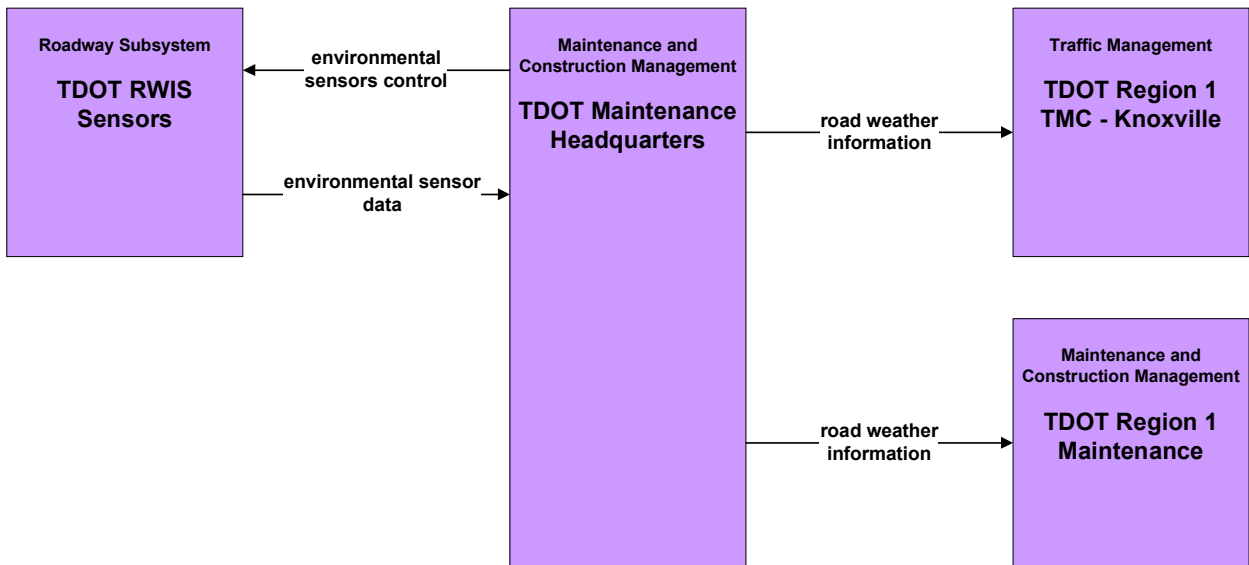
**MC01 – Maintenance and Construction Vehicle and Equipment Tracking
Municipal/County**



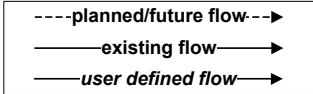
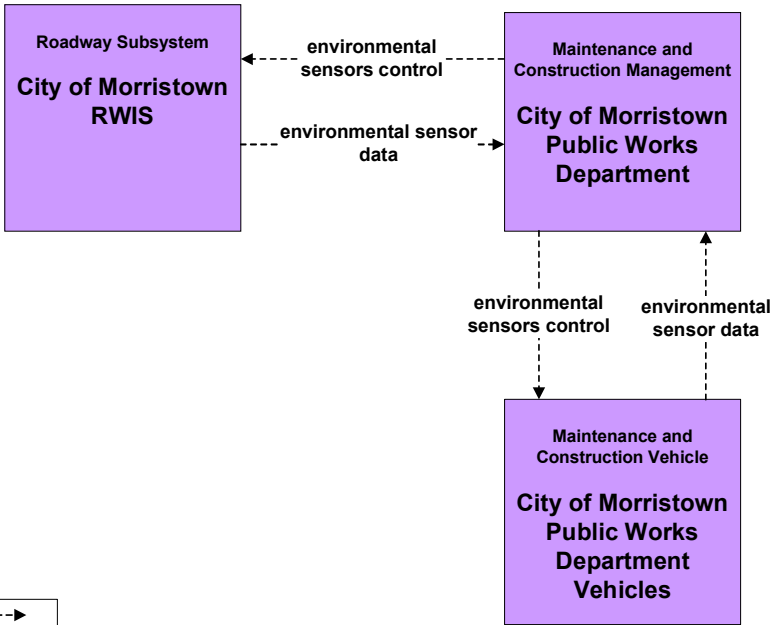
**MC02 – Maintenance and Construction Vehicle Maintenance
City of Morristown**



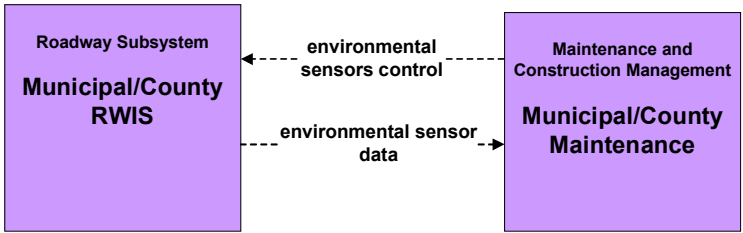
**MC03 – Road Weather Data Collection
TDOT RWIS**



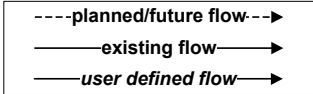
**MC03 – Road Weather Data Collection
City of Morristown**

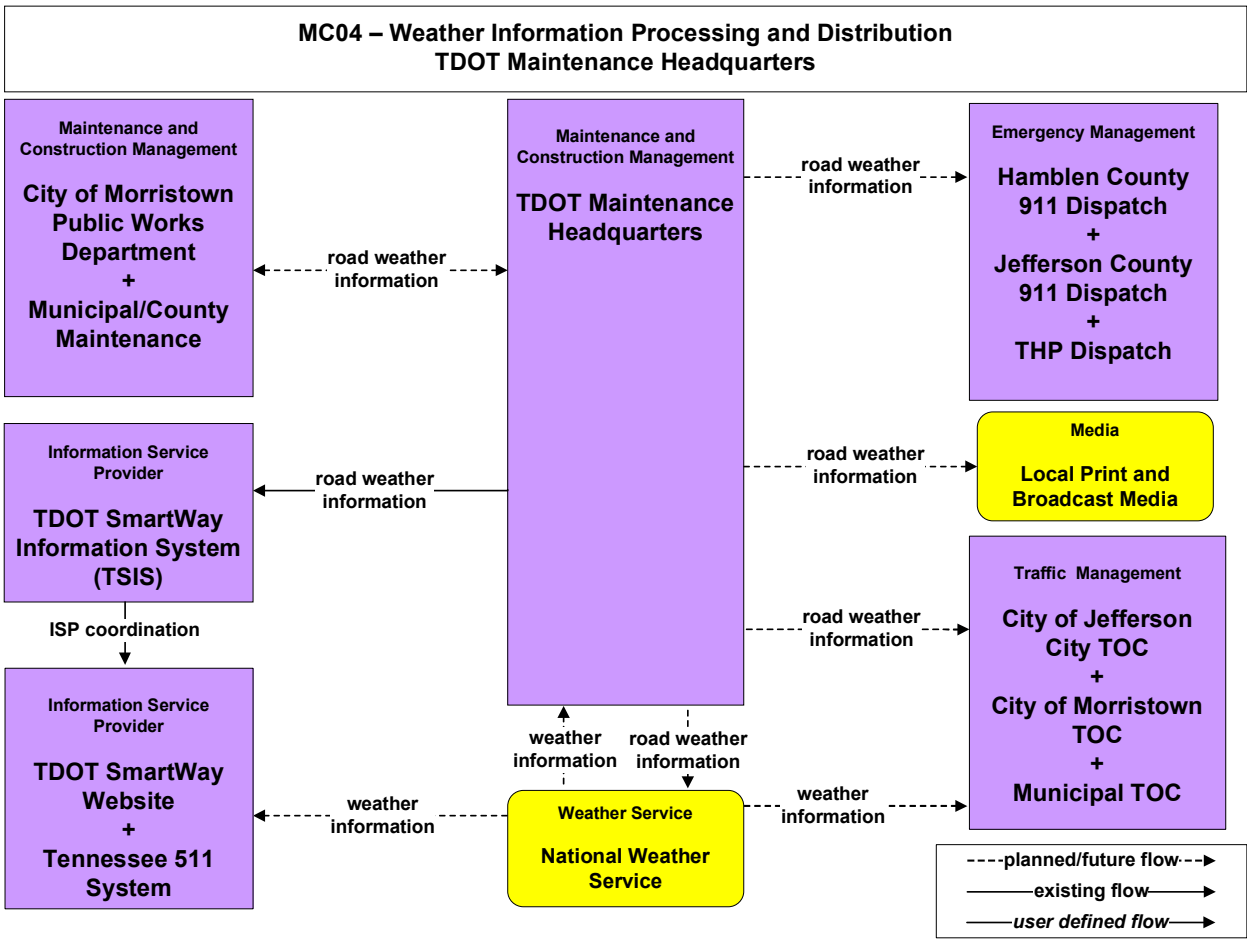


**MC03 – Road Weather Data Collection
Municipal/County**

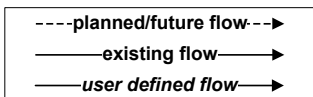
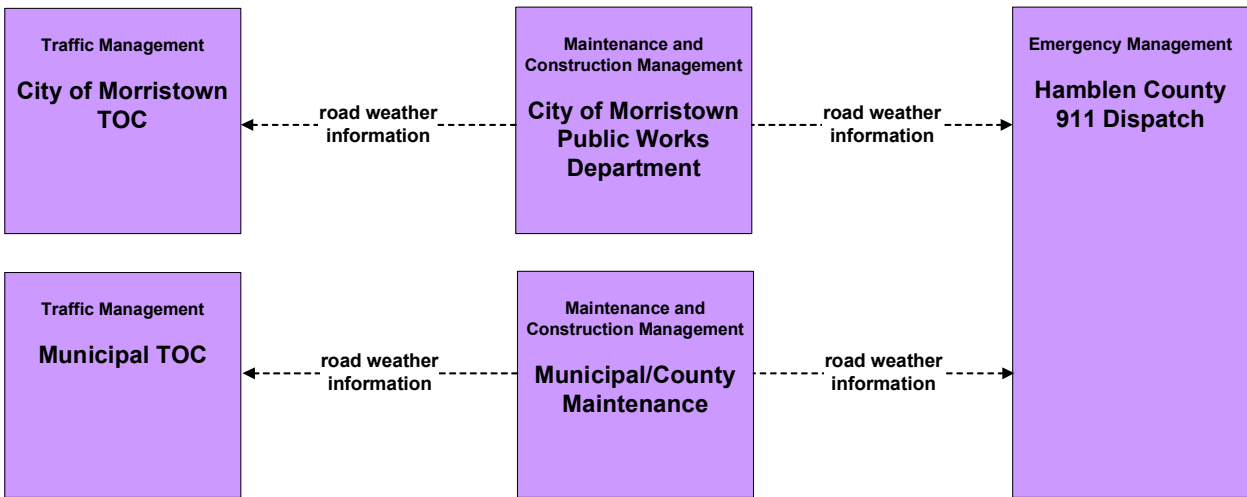


*Note:
A high priority deployment location in Hamblen
County is SH 160 for ice detection.*

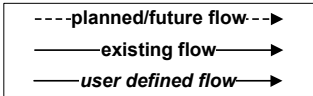




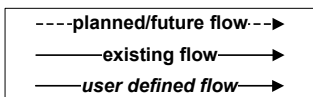
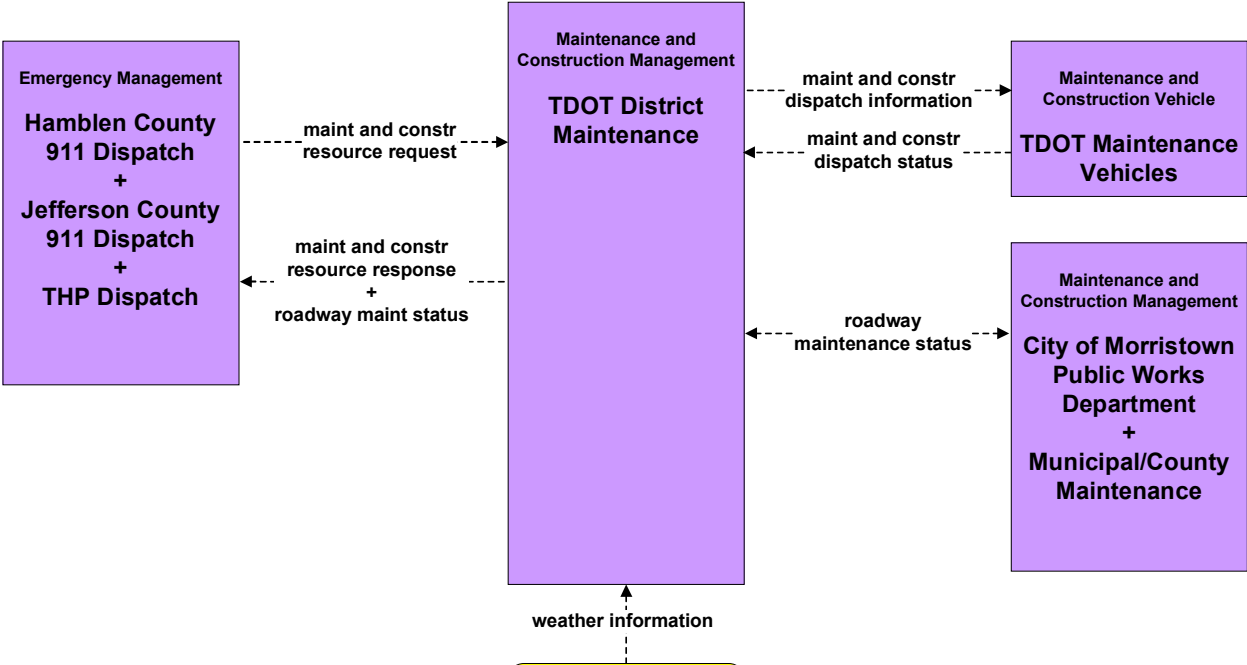
MC04 – Weather Information Processing and Distribution Hamblen County



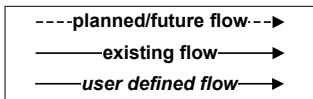
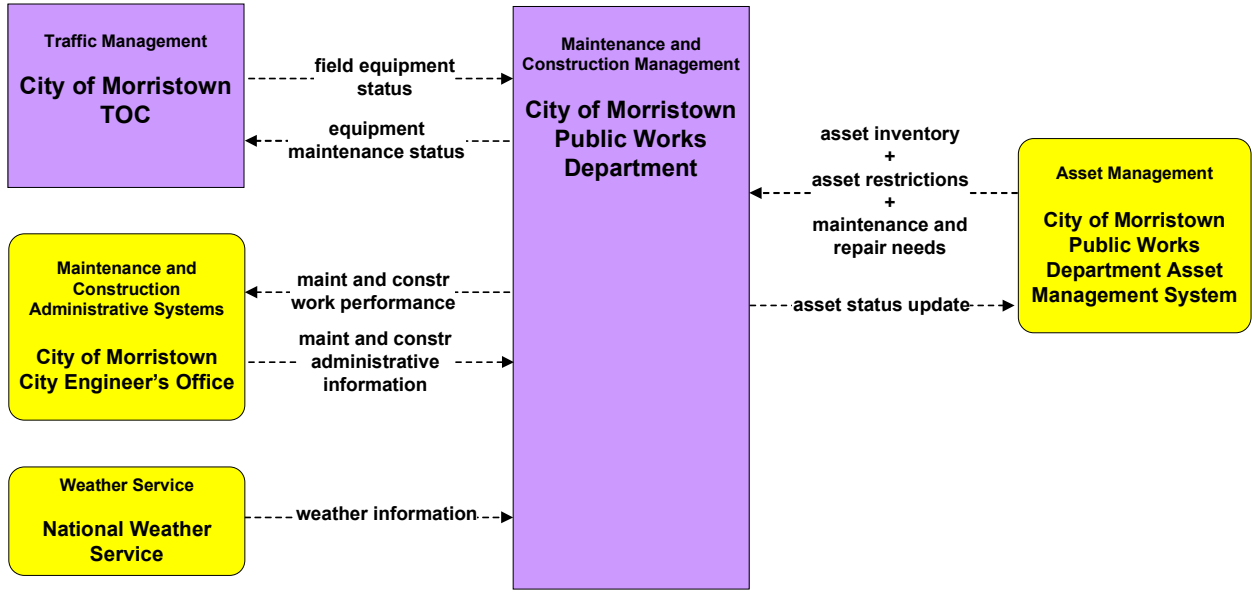
**MC04 – Weather Information Processing and Distribution
Jefferson County**



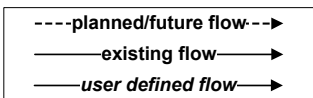
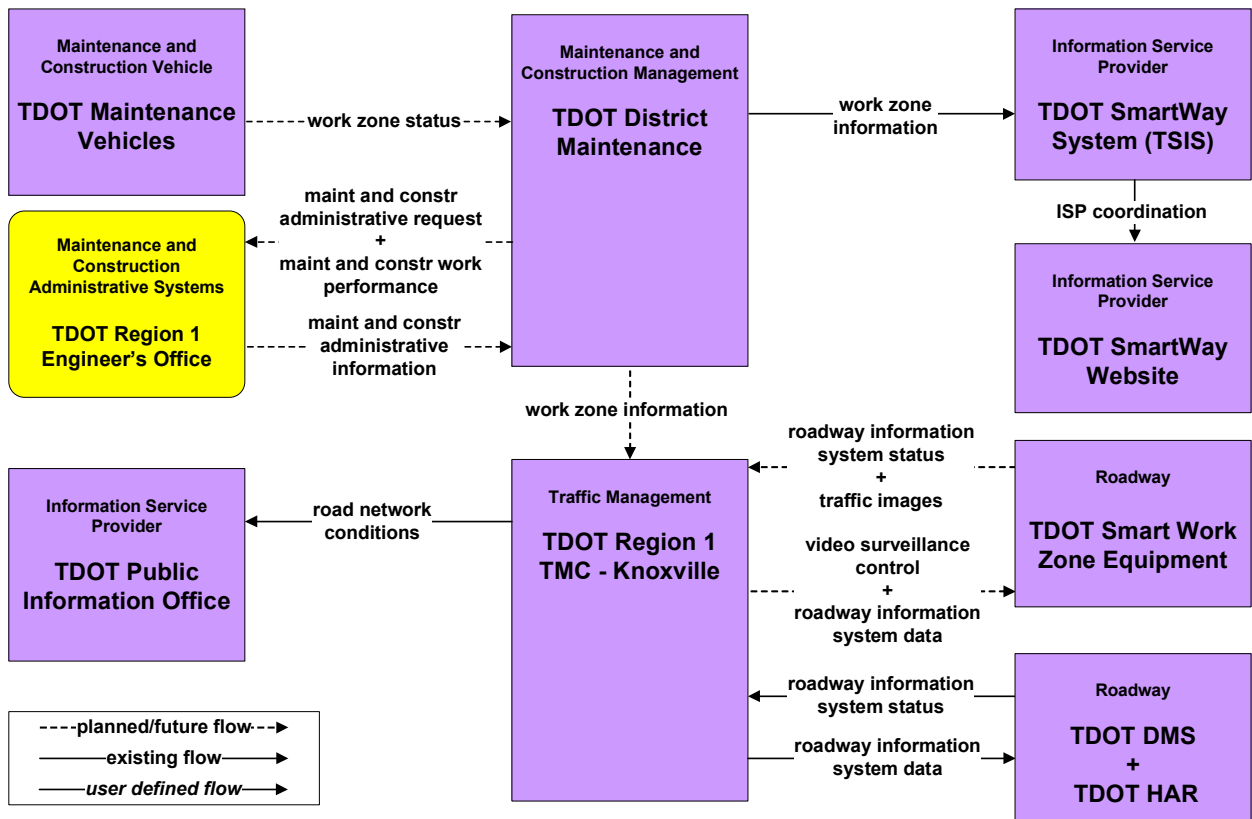
**MC06 – Winter Maintenance
TDOT District Maintenance**



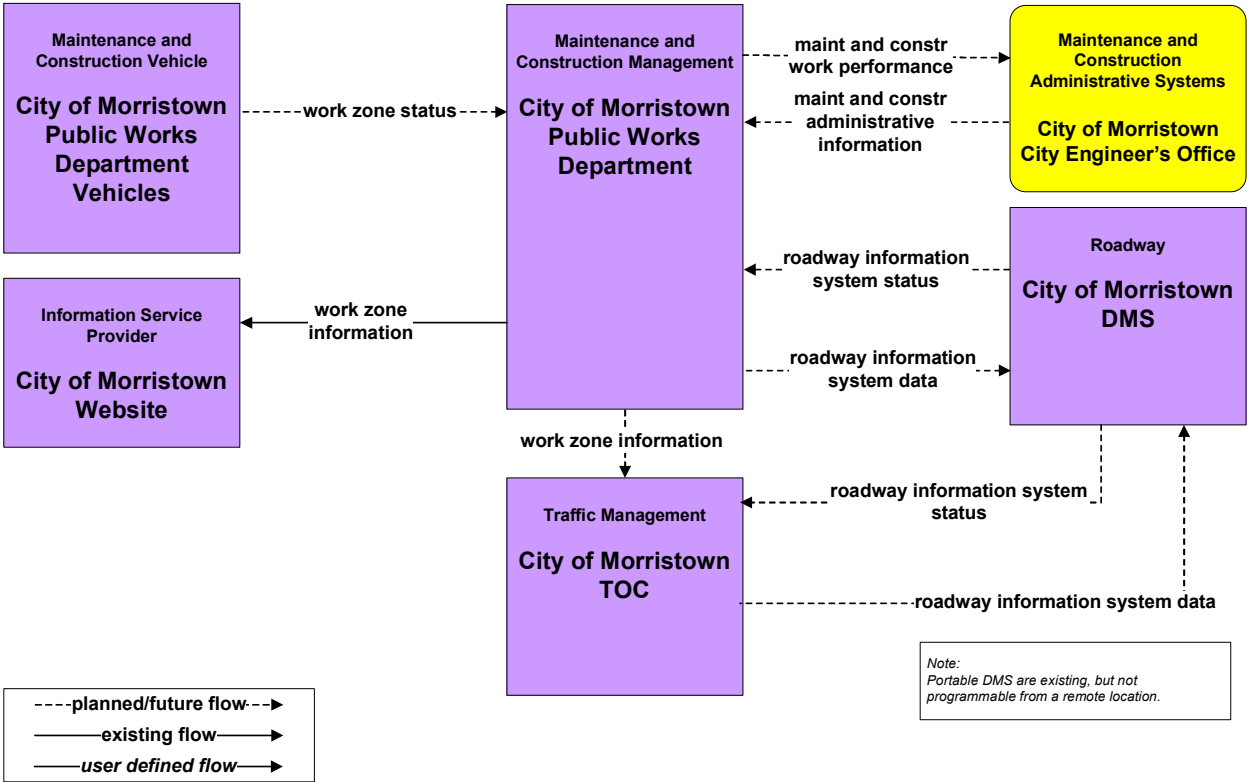
**MC07 – Roadway Maintenance and Construction
City of Morristown**



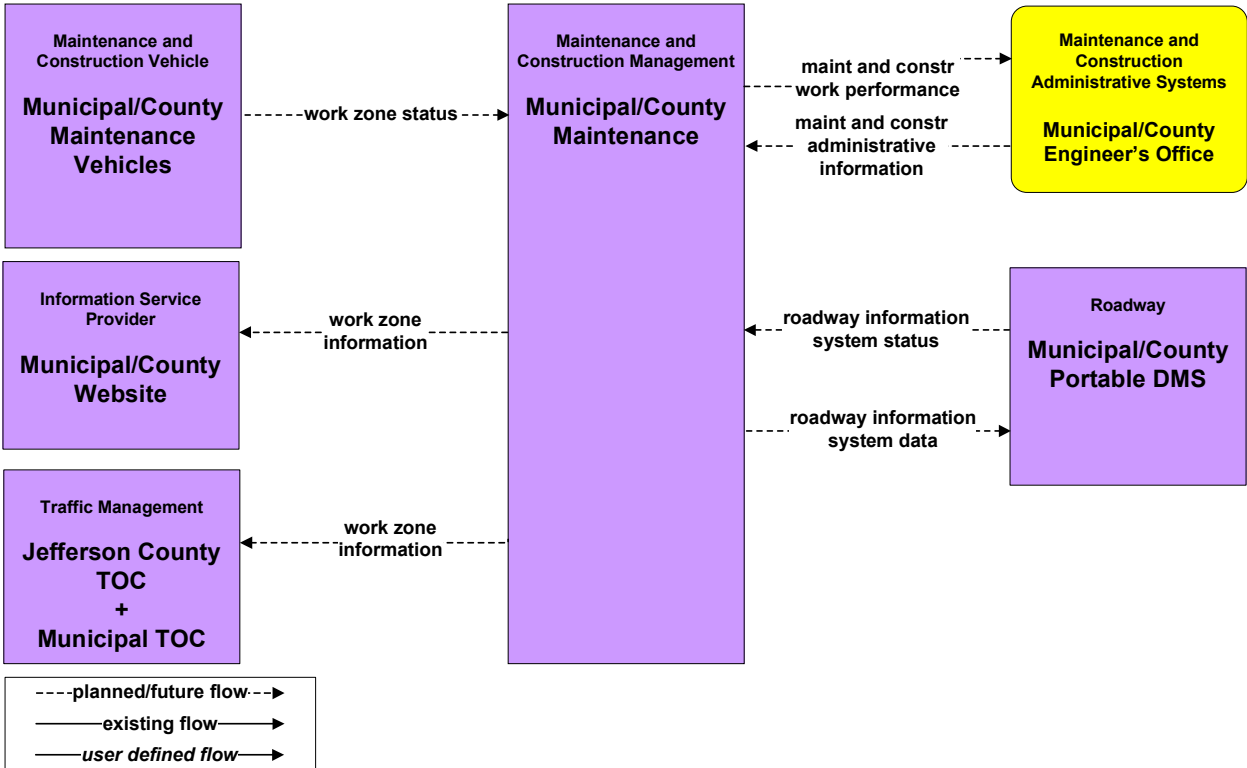
**MC08 – Work Zone Management
TDOT District Maintenance**



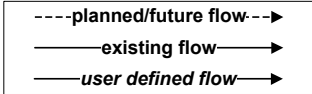
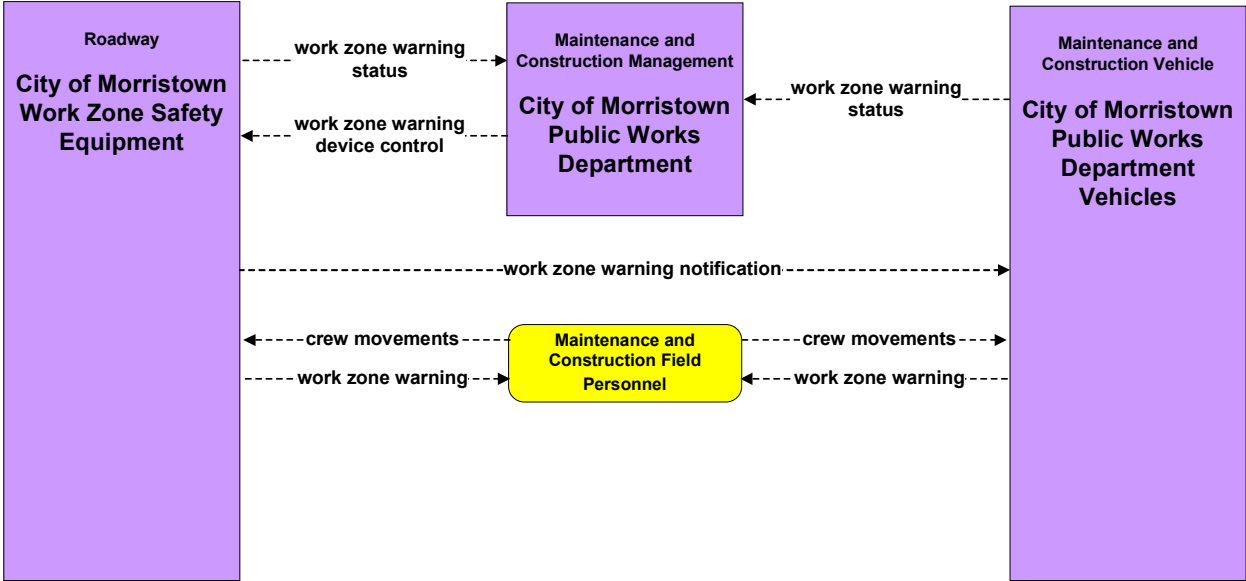
**MC08 – Work Zone Management
City of Morristown**



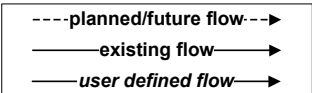
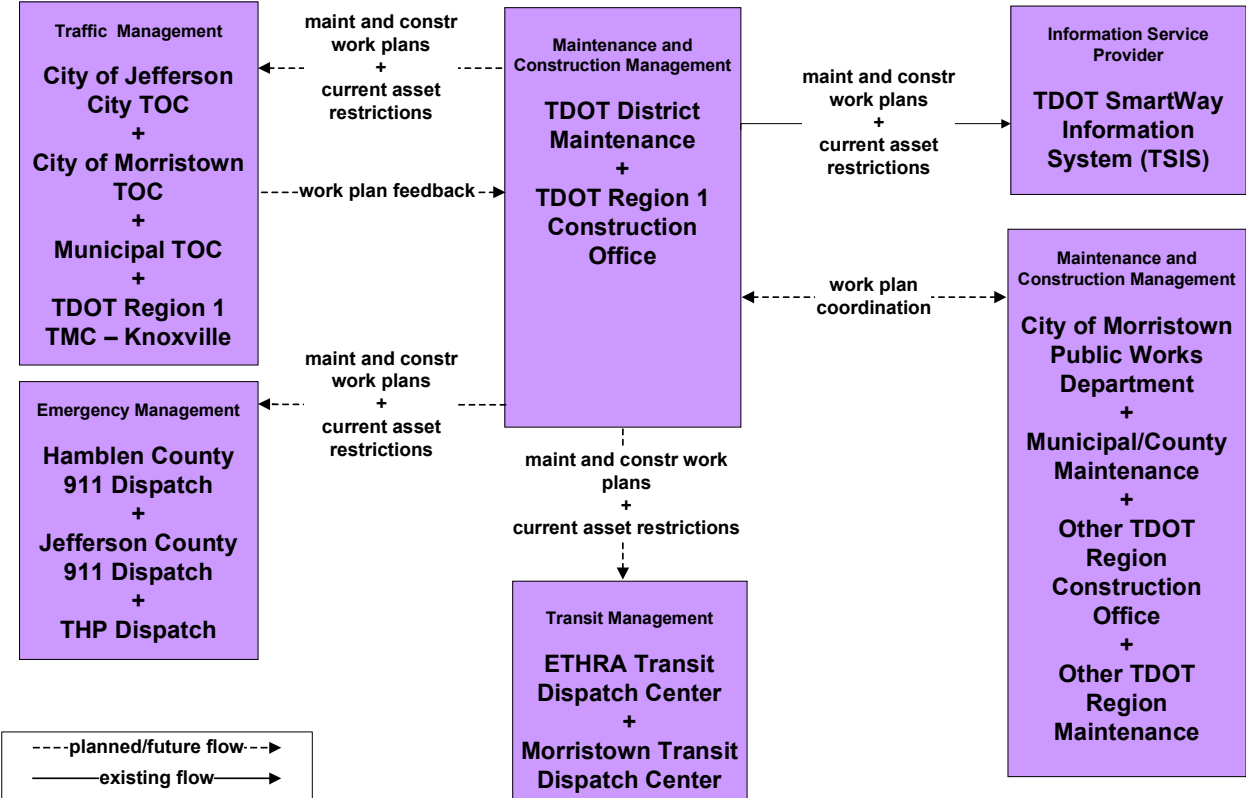
**MC08 – Work Zone Management
Municipal/County**



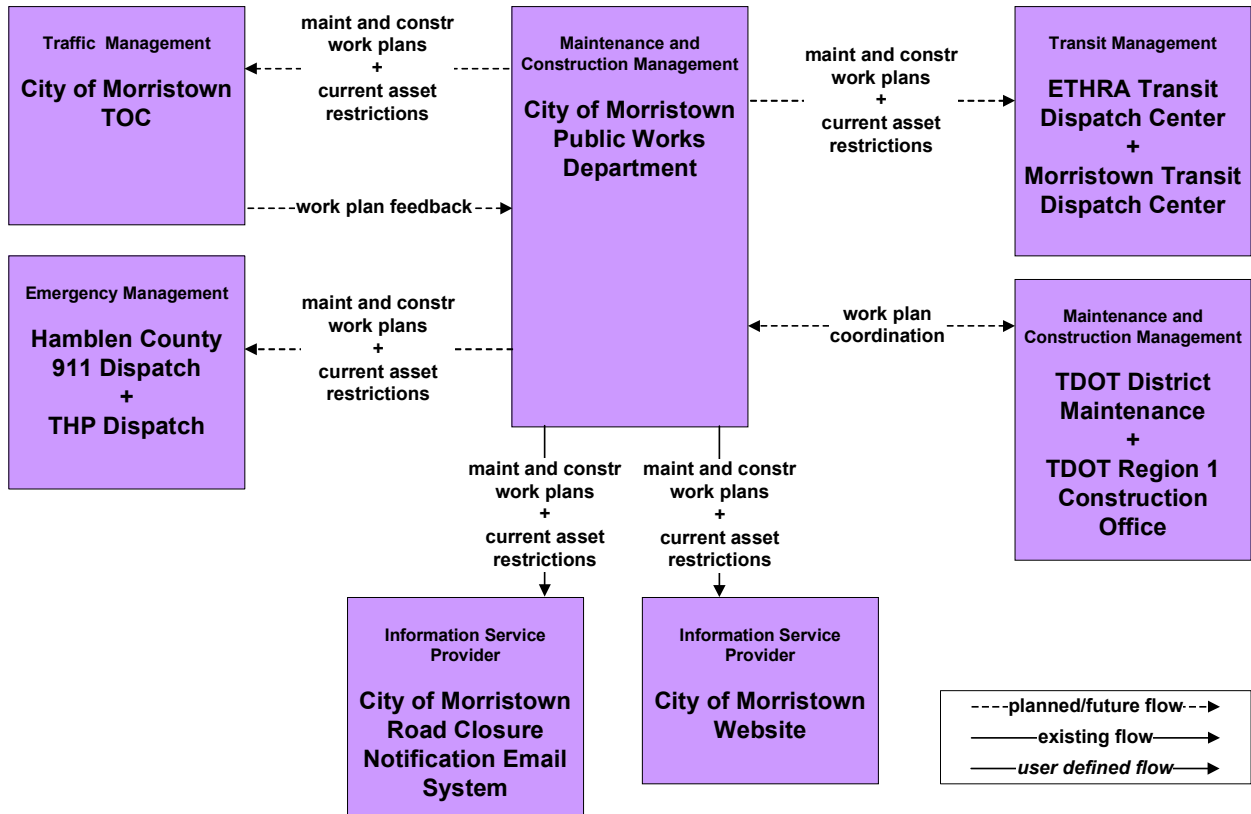
**MC09 – Work Zone Safety Monitoring
City of Morristown**



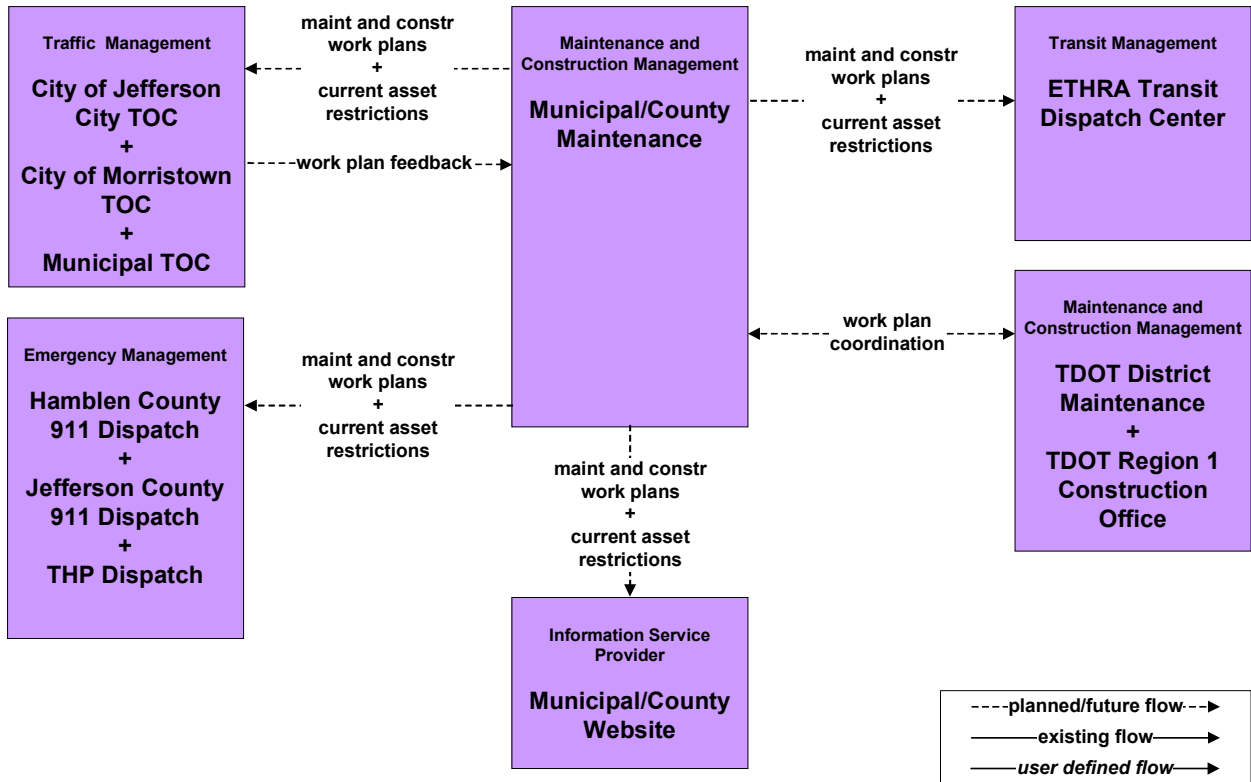
**MC10 – Maintenance and Construction Activity Coordination
TDOT**



**MC10 – Maintenance and Construction Activity Coordination
City of Morristown**

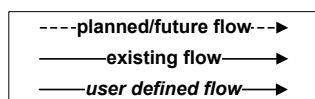
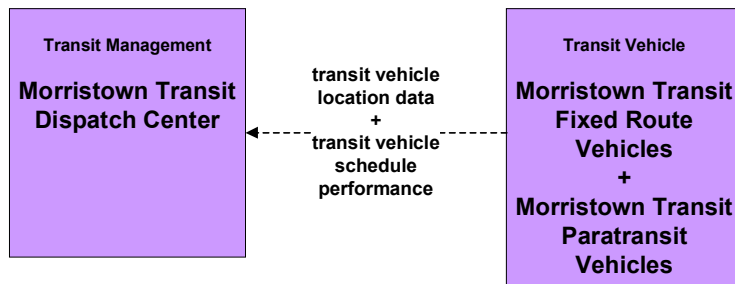


**MC10 – Maintenance and Construction Activity Coordination
Municipal/County**

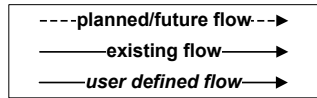
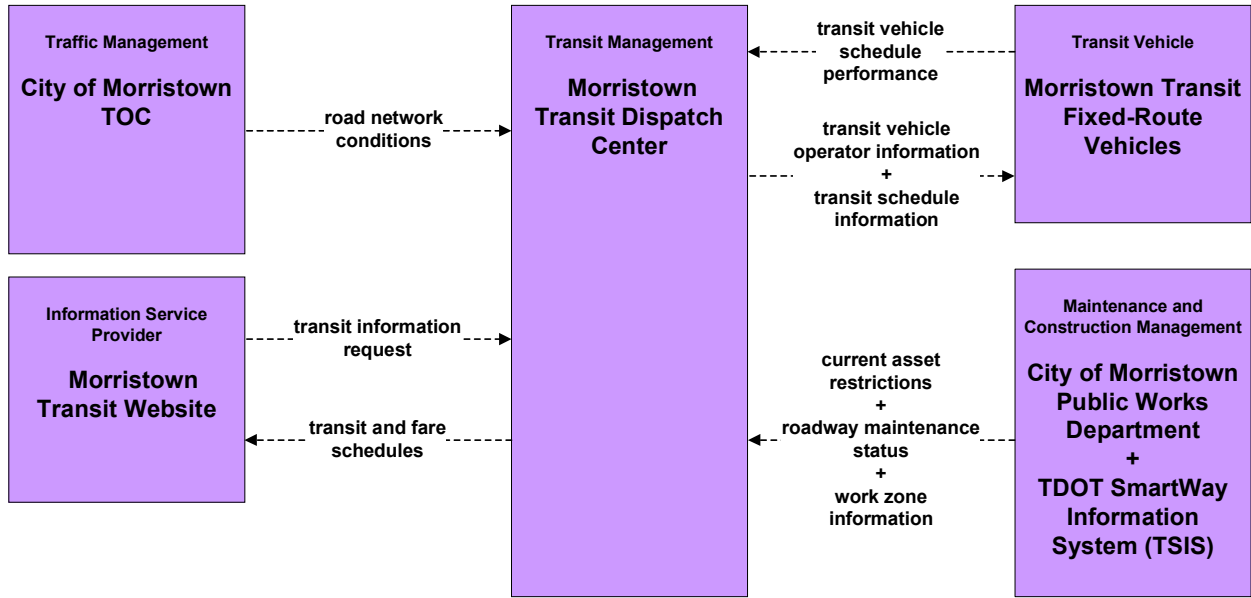


Advanced Public Transportation Systems

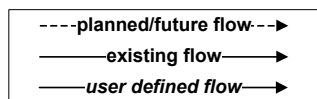
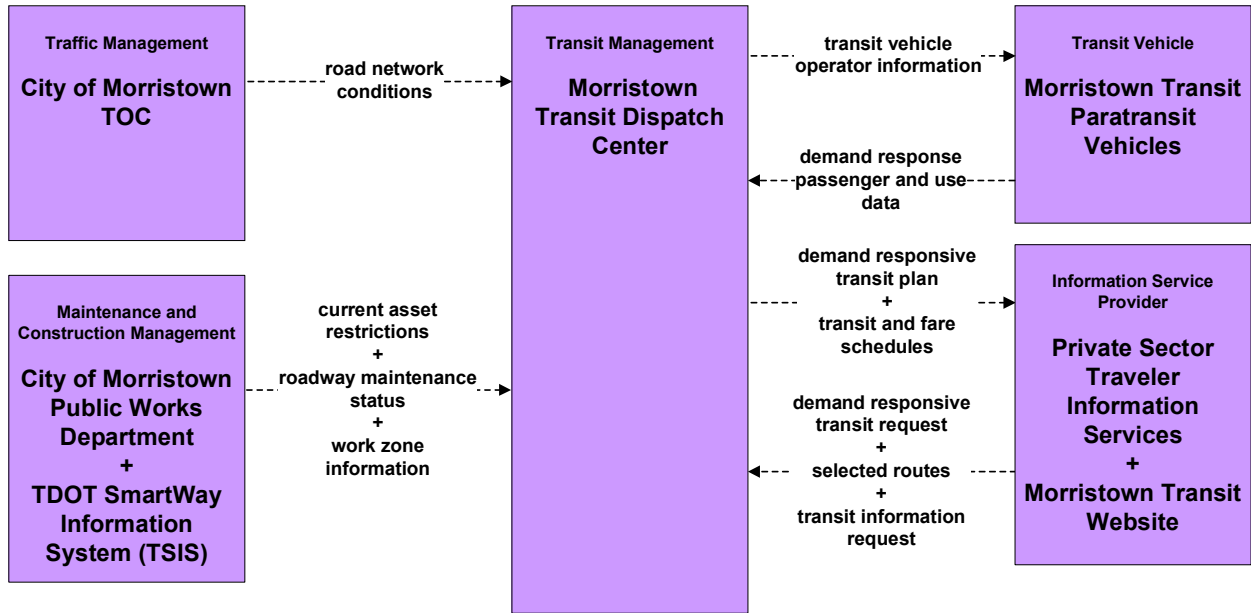
APTS01 – Transit Vehicle Tracking Morristown Transit



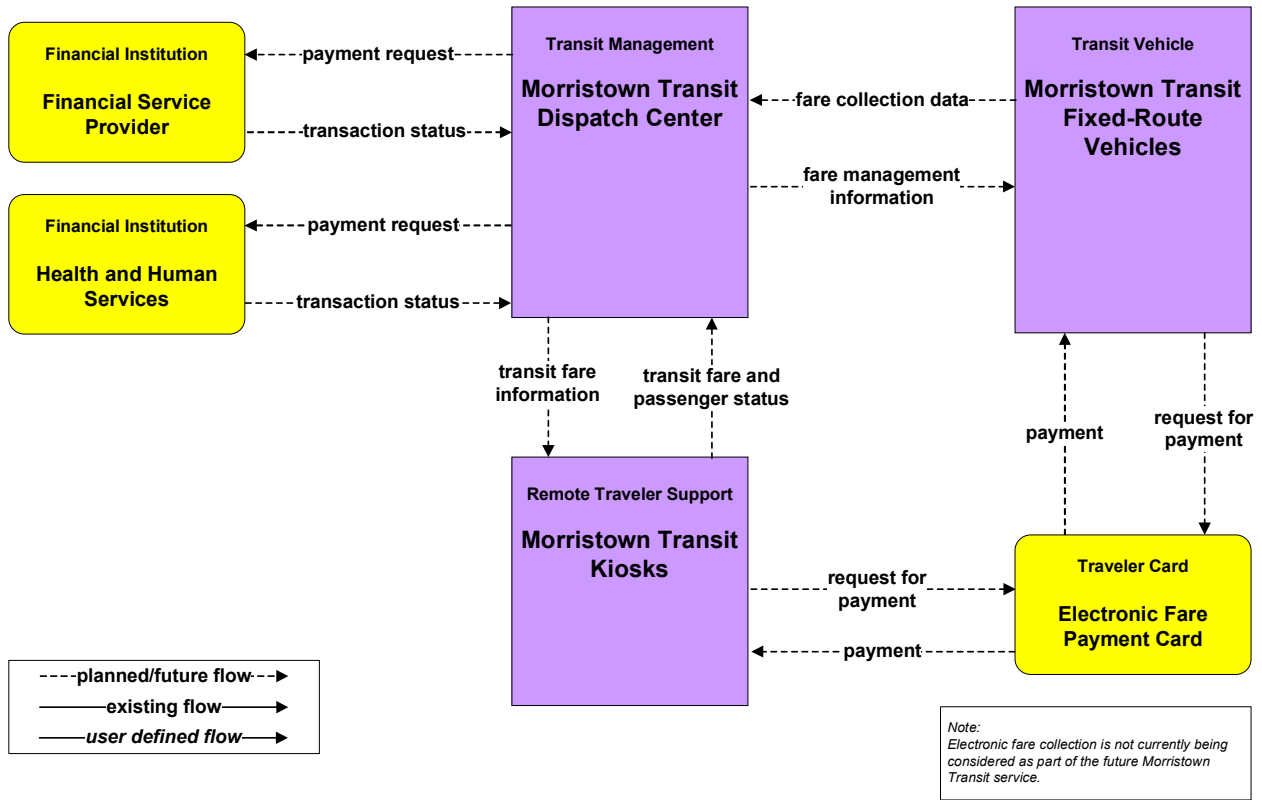
**APTS02 – Transit Fixed-Route Operations
Morristown Transit**



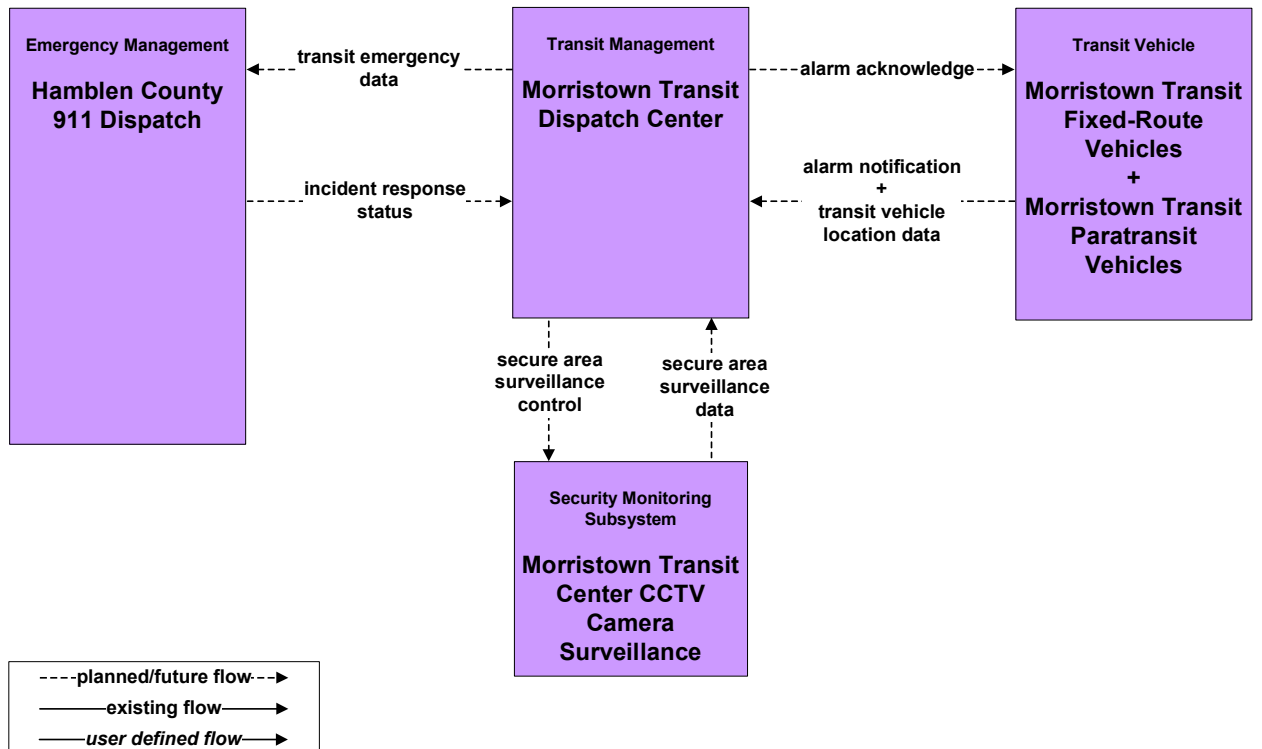
**APTS03 – Demand Response Transit Operations
Morristown Transit**



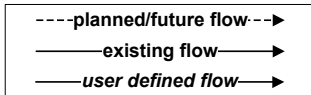
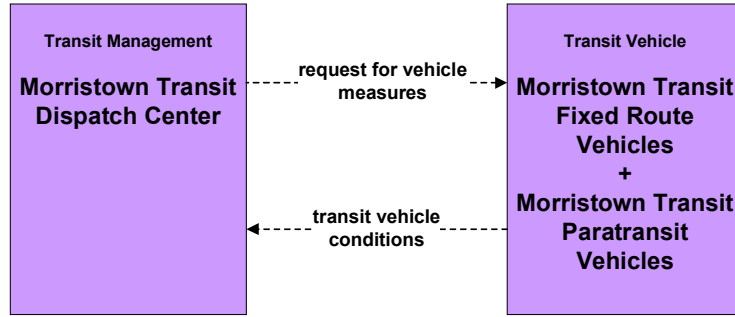
**APTS04 – Transit Fare Collection Management
Morristown Transit**



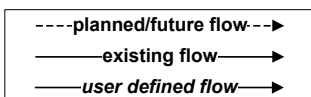
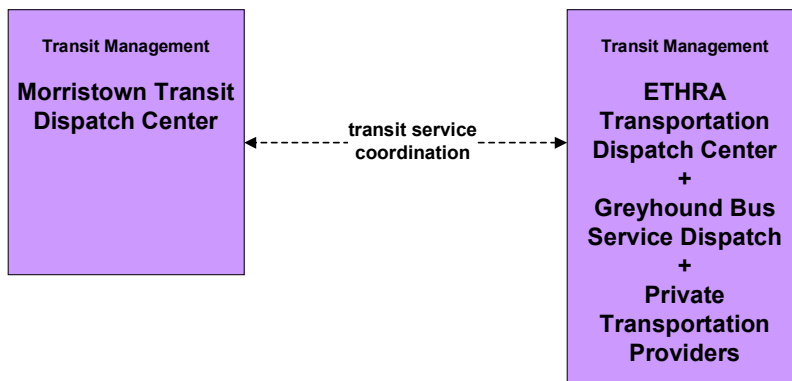
**APTS05 – Transit Security
Morristown Transit**



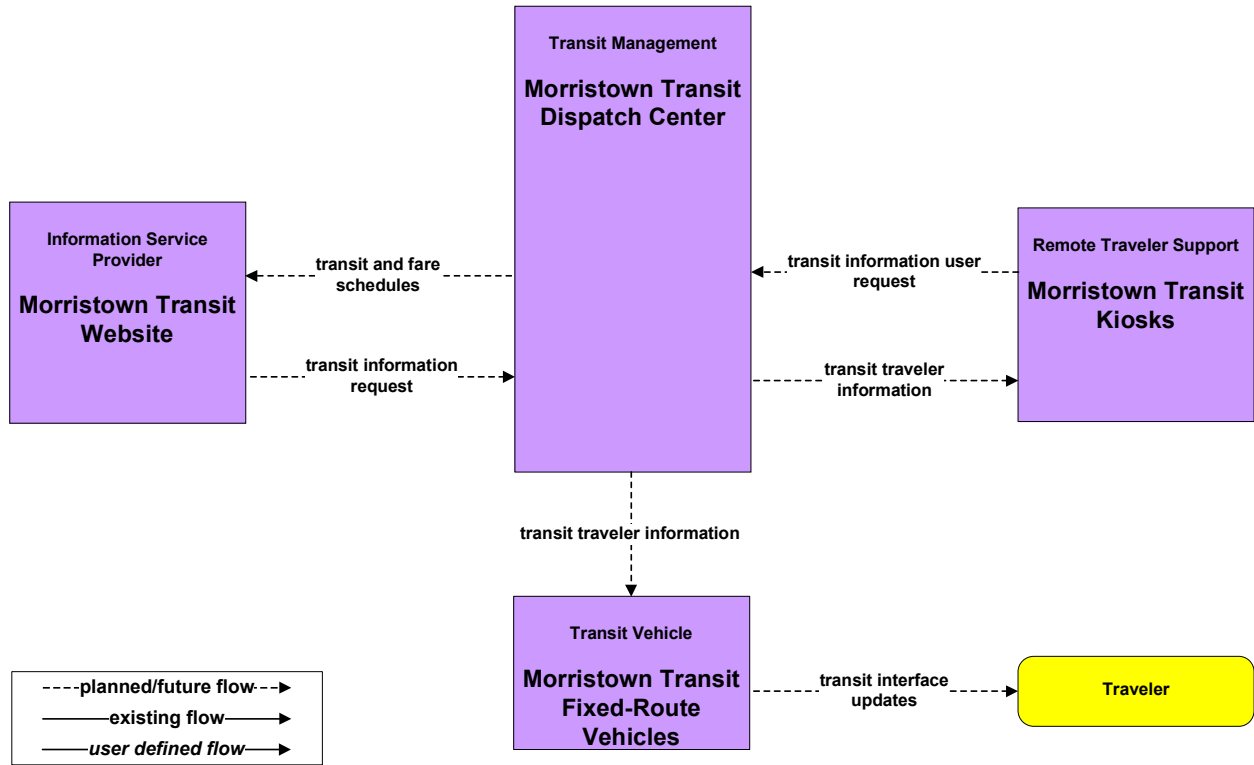
**APTS06 – Transit Fleet Management
Morristown Transit**



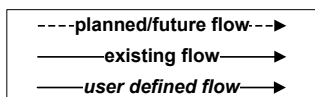
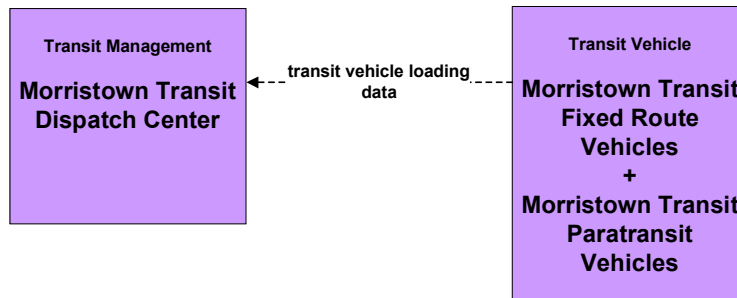
**APTS07 – Multi-modal Coordination
Morristown Transit**



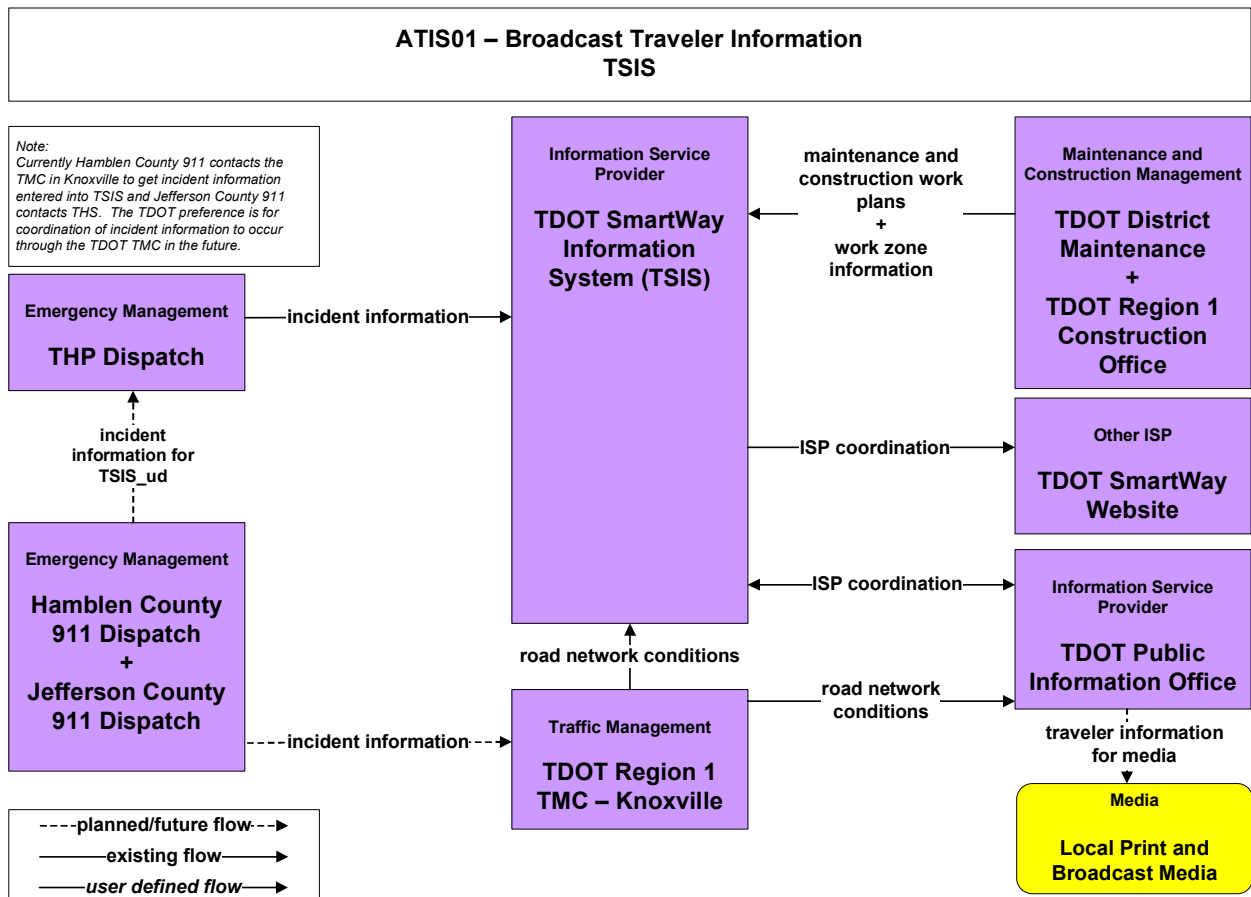
**APTS08 – Transit Traveler Information
Morristown Transit**



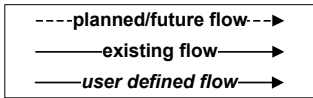
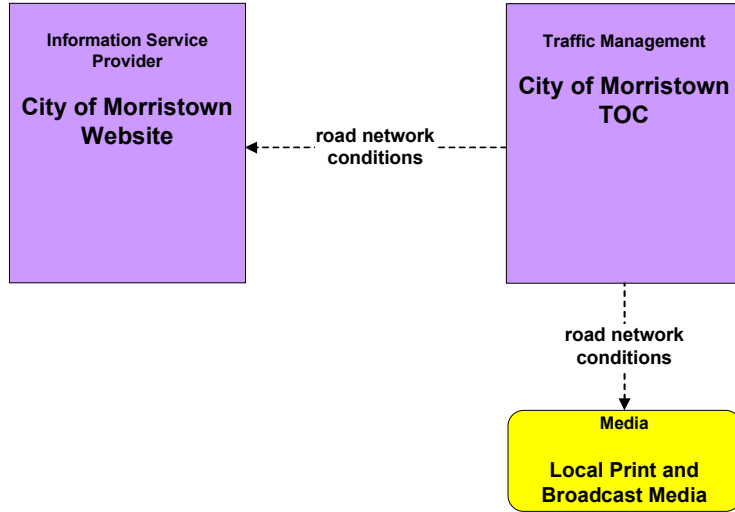
**APTS10 – Transit Passenger Counting
Morristown Transit**



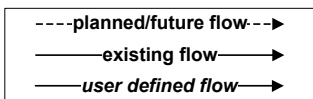
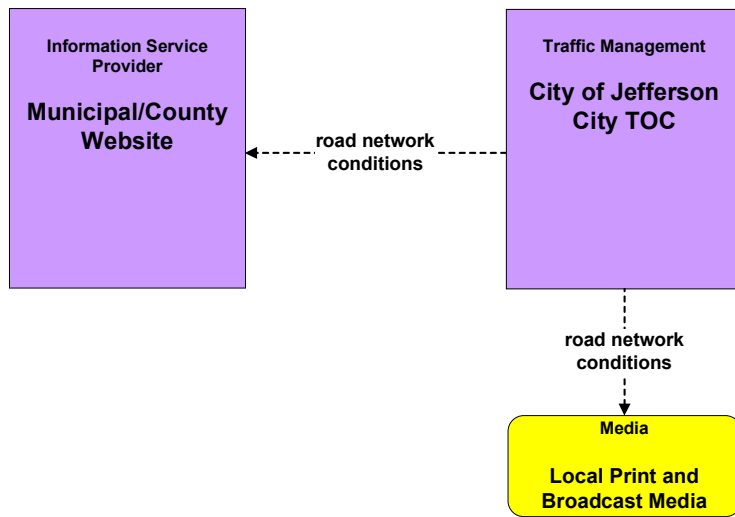
Advanced Traveler Information System



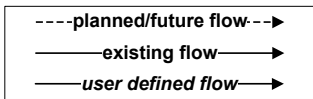
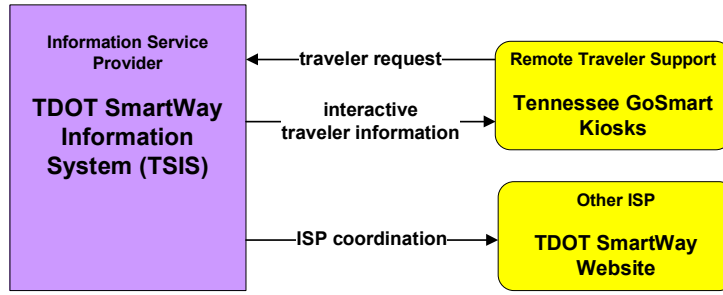
**ATIS01 – Broadcast Traveler Information
City of Morristown**



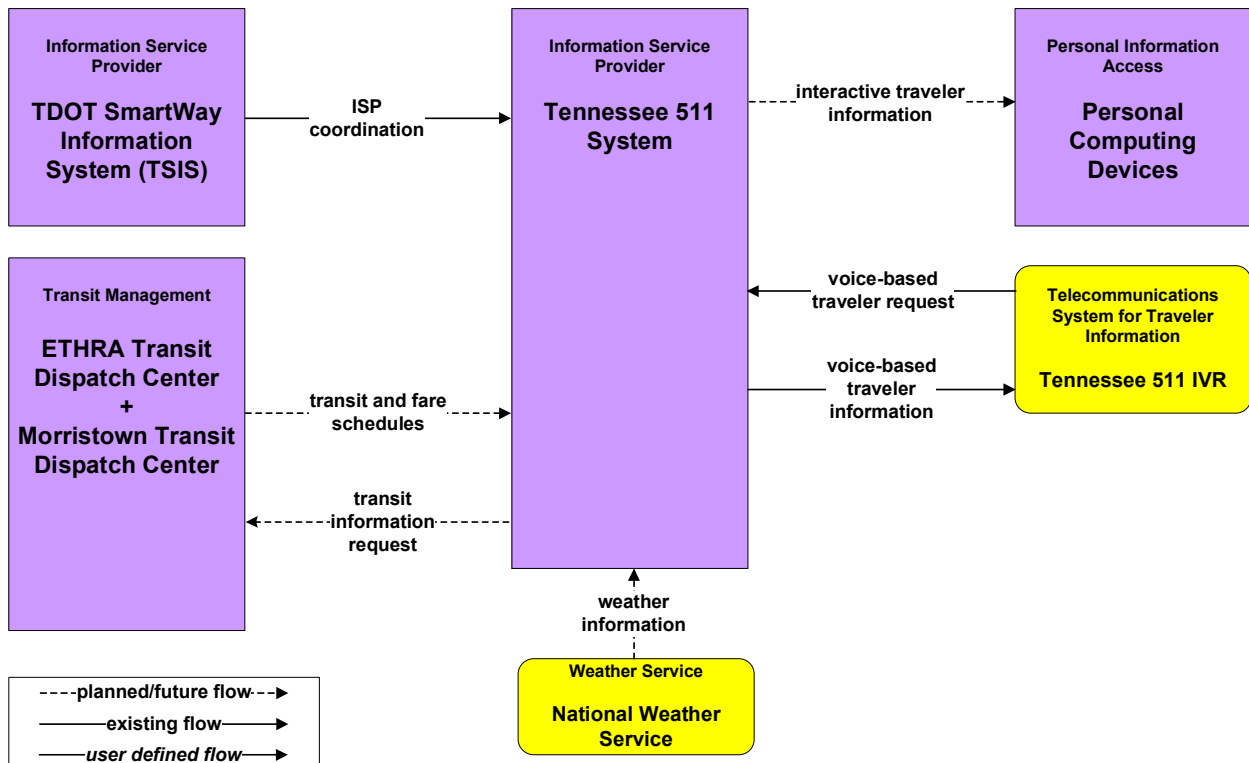
**ATIS01 – Broadcast Traveler Information
City of Jefferson City**



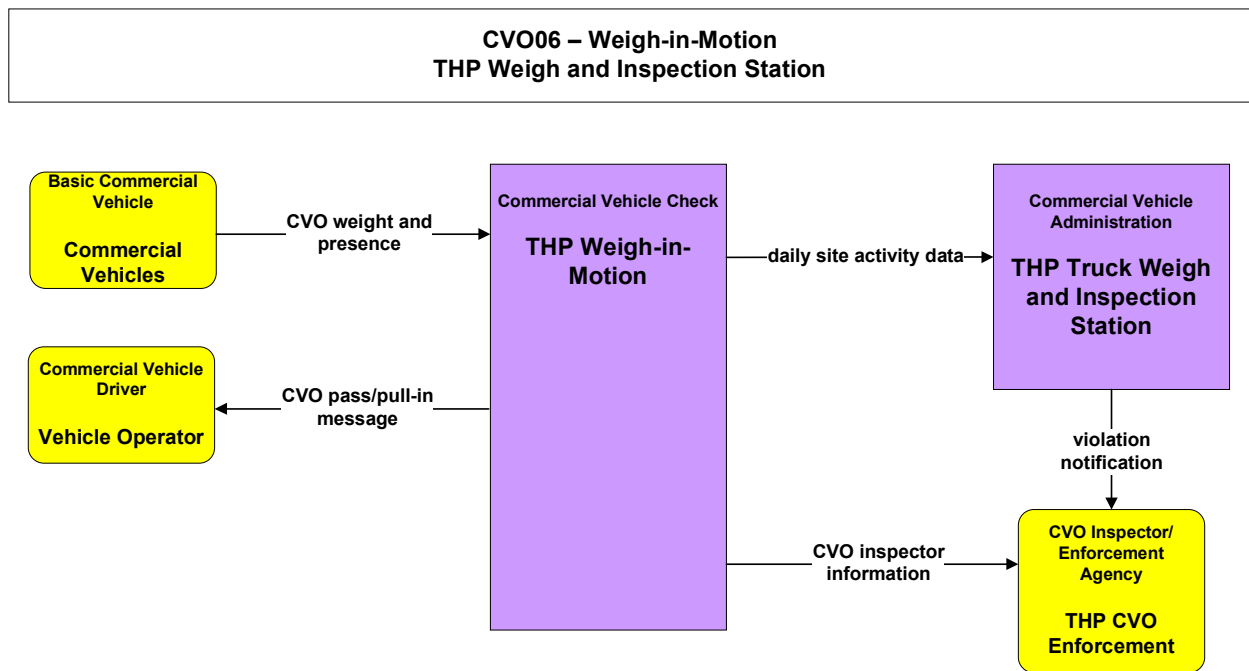
**ATIS02 – Interactive Traveler Information
Tennessee GoSmart Kiosks and TDOT SmartWay Website**



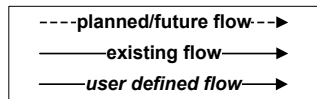
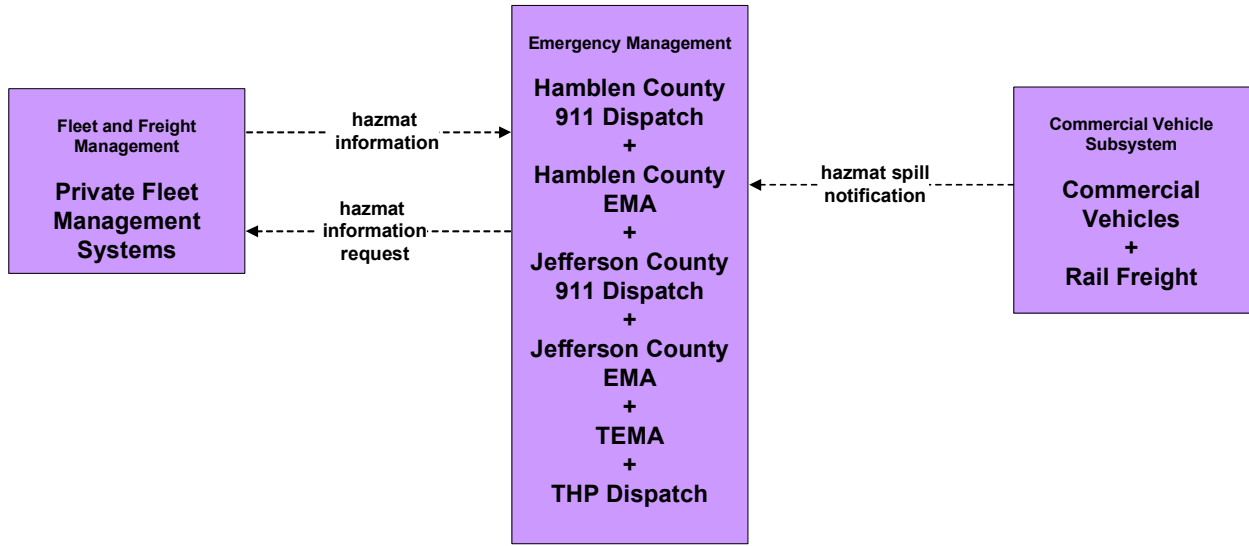
**ATIS02 – Interactive Traveler Information
Tennessee 511**



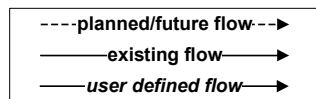
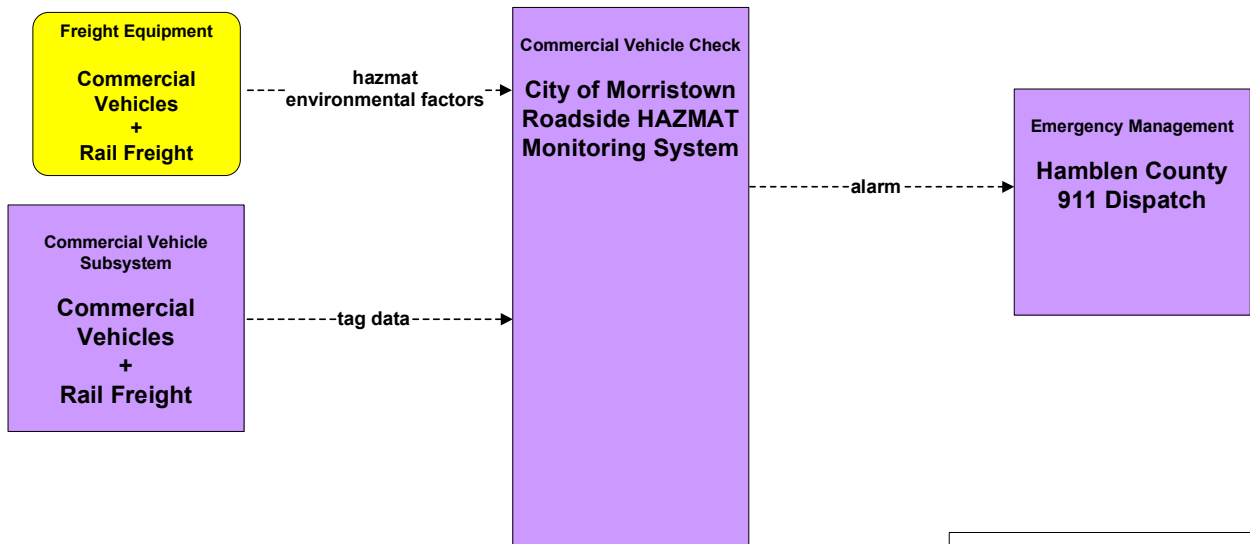
Commercial Vehicle Operations



**CVO10 – HAZMAT Management
Lakeway Region**



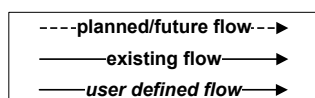
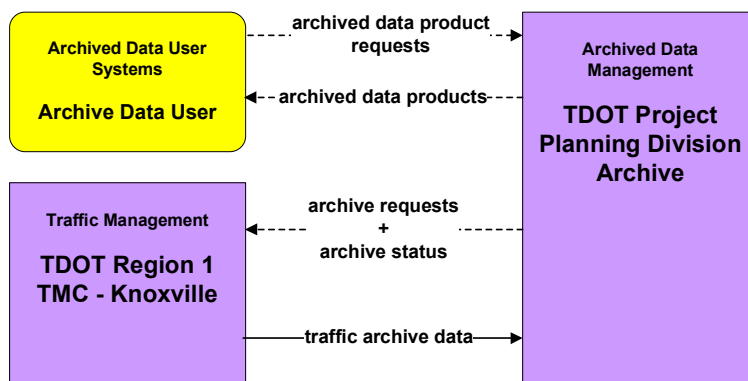
**CVO11 – Roadside HAZMAT Security Detection and Mitigation
City of Morristown**



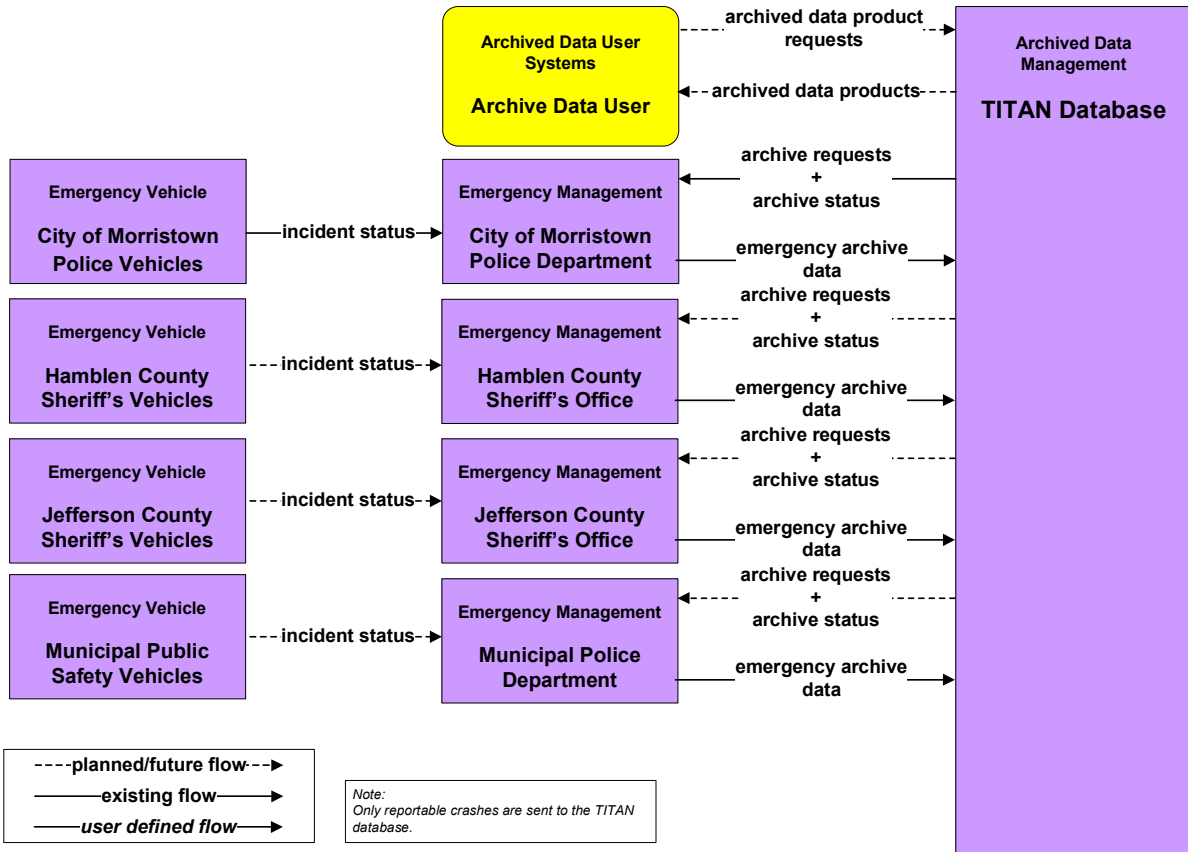
*Note:
The City of Morristown Roadside HAZMAT Monitoring System could detect data from electronic transponders (such as PrePass or electronic cargo seals) or from roadside sensing devices that can detect hazardous freight.*

Archived Data

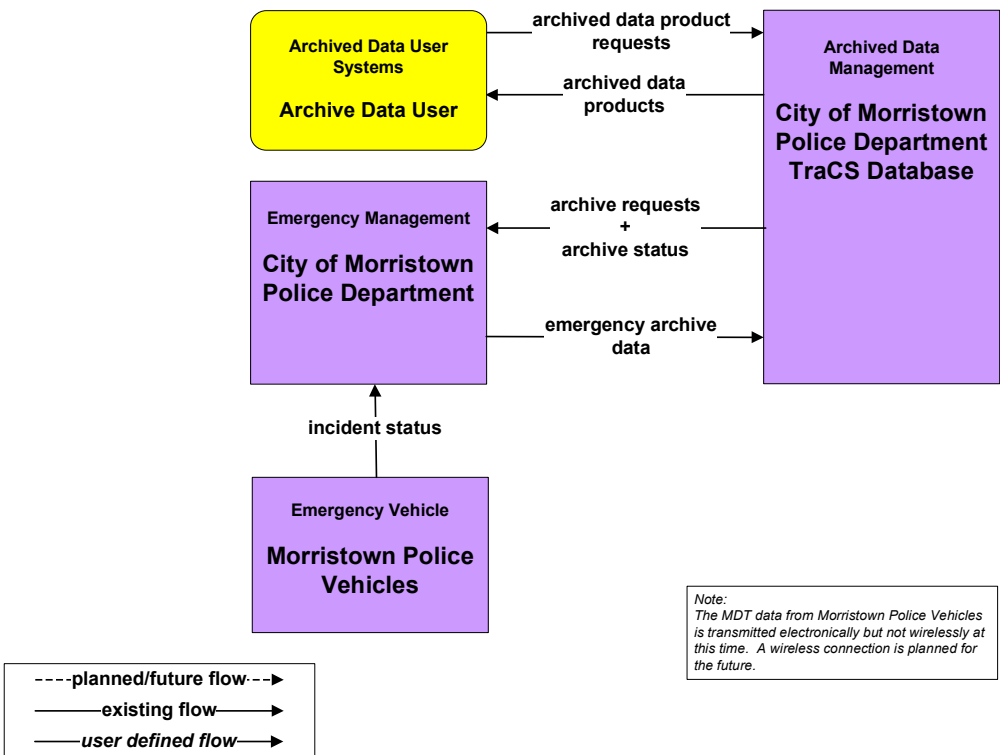
AD1 – ITS Data Mart
TDOT



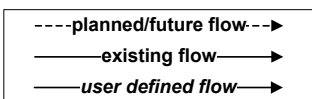
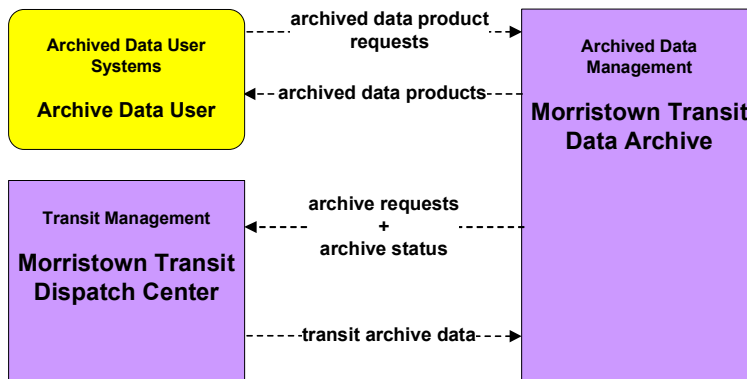
**AD1 – ITS Data Mart
TITAN**



**AD1 – ITS Data Mart
City of Morristown TraCS Database**

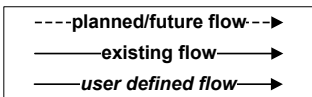
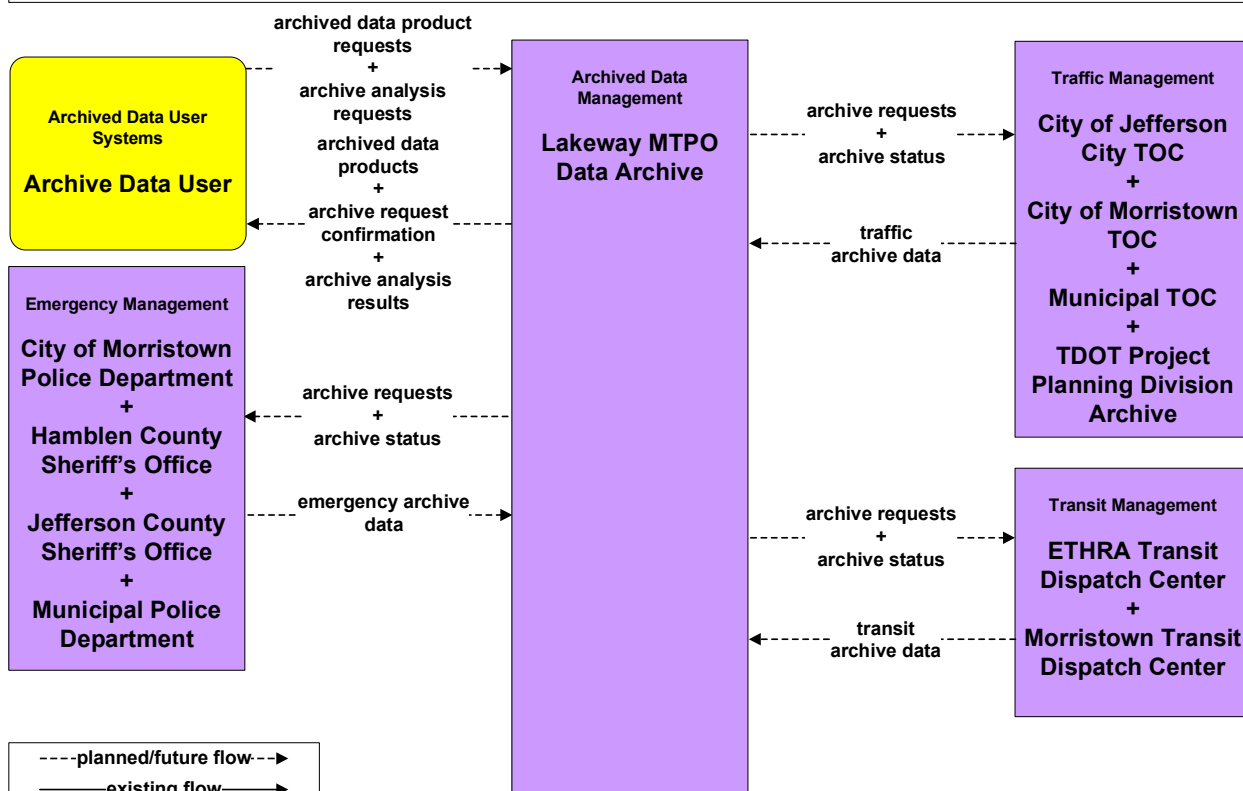


**AD1 – ITS Data Mart
Morristown Transit**



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

**AD2 – ITS Data Warehouse
Lakeway MTPO**

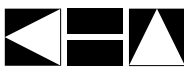




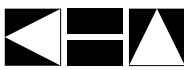
Kimley-Horn
and Associates, Inc.



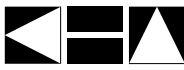
APPENDIX C – ELEMENT FUNCTIONS



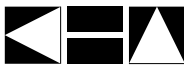
Element Name	Equipment Package (Function)
City of Jefferson City Speed Monitoring Equipment	Roadway Speed Monitoring
City of Jefferson City TOC	Collect Traffic Surveillance
	HRI Traffic Management
	Rail Operations Coordination
	TMC Environmental Monitoring
	TMC Evacuation Support
	TMC Incident Detection
	TMC Incident Dispatch Coordination/Communication
	TMC Regional Traffic Management
	TMC Signal Control
	TMC Speed Monitoring
	TMC Work Zone Traffic Management
	Traffic Data Collection
	Traffic Maintenance
City of Jefferson City Traffic Signals	Roadway Equipment Coordination
	Roadway Signal Controls
	Roadway Signal Priority
	Standard Rail Crossing
City of Morristown CCTV Cameras	Roadway Basic Surveillance
City of Morristown DMS	Roadway Traffic Information Dissemination
	Roadway Work Zone Traffic Control
City of Morristown Field Sensors	Roadway Basic Surveillance
	Roadway Equipment Coordination
City of Morristown Fire Vehicles	On-board EV En Route Support
	On-board EV Incident Management Communication
City of Morristown Police Department	Emergency Data Collection
	TMC Speed Monitoring
City of Morristown Police Department TraCS Database	Government Reporting Systems Support
	ITS Data Repository
City of Morristown Police Vehicles	On-board EV En Route Support
	On-board EV Incident Management Communication
City of Morristown Public Works Department	MCM Environmental Information Collection
	MCM Environmental Information Processing
	MCM Incident Management
	MCM Maintenance Decision Support
	MCM Roadway Maintenance and Construction
	MCM Vehicle and Equipment Maintenance Management
	MCM Vehicle Tracking
	MCM Winter Maintenance Management



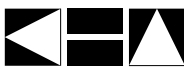
Element Name	Equipment Package (Function)
City of Morristown Public Works Department (continued)	MCM Work Activity Coordination
	MCM Work Zone Management
	MCM Work Zone Safety Management
City of Morristown Public Works Department Vehicles	MCV Environmental Monitoring
	MCV Vehicle Location Tracking
	MCV Vehicle Safety Monitoring
	MCV Vehicle System Monitoring and Diagnostics
	MCV Work Zone Support
City of Morristown Rail Notification System	Standard Rail Crossing
City of Morristown Roadside HAZMAT Monitoring System	Roadside HAZMAT Detection
City of Morristown RWIS	Roadway Environmental Monitoring
City of Morristown Speed Monitoring Equipment	Roadway Speed Monitoring
City of Morristown TOC	Collect Traffic Surveillance
	HRI Traffic Management
	Rail Operations Coordination
	TMC Environmental Monitoring
	TMC Evacuation Support
	TMC Incident Detection
	TMC Incident Dispatch Coordination/Communication
	TMC Regional Traffic Management
	TMC Signal Control
	TMC Speed Monitoring
	TMC Traffic Information Dissemination
	TMC Work Zone Traffic Management
	Traffic Data Collection
	Traffic Maintenance
City of Morristown Traffic Signals	Roadway Equipment Coordination
	Roadway Signal Controls
	Roadway Signal Priority
	Standard Rail Crossing
City of Morristown Website	Basic Information Broadcast
	ISP Traveler Data Collection
City of Morristown Work Zone Safety Equipment	Roadway Equipment Coordination
	Roadway Work Zone Safety
Commercial Vehicles	On-board Cargo Monitoring
	On-board CV Electronic Data
Cumberland Gap Tunnel Authority CCTV Cameras	Roadway Basic Surveillance
Cumberland Gap Tunnel Authority DMS	Roadway Traffic Information Dissemination



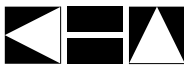
Element Name	Equipment Package (Function)
Cumberland Gap Tunnel Authority Operations Center	Collect Traffic Surveillance
	TMC Incident Detection
	TMC Incident Dispatch Coordination/Communication
	TMC Regional Traffic Management
ETHRA Transit Dispatch Center	Transit Center Multi-Modal Coordination
	Transit Data Collection
	Transit Evacuation Support
Hamblen County 911 Dispatch	Emergency Call-Taking
	Emergency Commercial Vehicle Response
	Emergency Dispatch
	Emergency Environmental Monitoring
	Emergency Evacuation Support
	Emergency Routing
	Incident Command
Hamblen County EMA	Emergency Commercial Vehicle Response
	Emergency Evacuation Support
	Emergency Response Management
	Incident Command
Hamblen County EMA Vehicles	On-board EV En Route Support
	On-board EV Incident Management Communication
Hamblen County Sheriff Vehicles	On-board EV En Route Support
	On-board EV Incident Management Communication
Hamblen County Sheriff's Office	Emergency Data Collection
Jefferson County 911 Dispatch	Emergency Call-Taking
	Emergency Commercial Vehicle Response
	Emergency Dispatch
	Emergency Environmental Monitoring
	Emergency Evacuation Support
	Emergency Routing
	Incident Command
Jefferson County EMA	Emergency Commercial Vehicle Response
	Emergency Evacuation Support
	Emergency Response Management
	Incident Command
Jefferson County Sheriff Vehicles	On-board EV En Route Support
	On-board EV Incident Management Communication
Jefferson County Sheriff's Office	Emergency Data Collection
Lakeway MTPO Data Archive	Government Reporting Systems Support
	ITS Data Repository
	On-Line Analysis and Mining



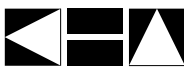
Element Name	Equipment Package (Function)
Morristown Transit Center CCTV Camera Surveillance	Field Secure Area Sensor Monitoring
	Field Secure Area Surveillance
Morristown Transit Data Archive	Government Reporting Systems Support
	ITS Data Repository
Morristown Transit Dispatch Center	Center Secure Area Alarm Support
	Center Secure Area Sensor Management
	Center Secure Area Surveillance
	Emergency Evacuation Support
	Transit Center Fare Management
	Transit Center Fixed-Route Operations
	Transit Center Information Services
	Transit Center Multi-Modal Coordination
	Transit Center Paratransit Operations
	Transit Center Passenger Counting
	Transit Center Security
	Transit Center Vehicle Tracking
	Transit Data Collection
	Transit Evacuation Support
	Transit Garage Maintenance
	Transit Vehicle Assignment
Transit Vehicle Operator Assignment	
Morristown Transit Fixed Route Vehicles	On-board Maintenance
	On-board Passenger Counting
	On-board Schedule Management
	On-board Transit Fare Management
	On-board Transit Information Services
	On-board Transit Security
	On-board Transit Trip Monitoring
Morristown Transit Kiosks	Remote Transit Fare Management
	Remote Transit Information Services
Morristown Transit Paratransit Vehicles	On-board Maintenance
	On-board Paratransit Operations
	On-board Passenger Counting
	On-board Schedule Management
	On-board Transit Security
	On-board Transit Trip Monitoring
Morristown Transit Website	Infrastructure Provided Trip Planning
Morristown-Hamblen EMS Vehicles	On-board EV En Route Support
	On-board EV Incident Management Communication
Municipal CCTV Cameras	Roadway Basic Surveillance



Element Name	Equipment Package (Function)
Municipal Field Sensors	Roadway Basic Surveillance
	Roadway Equipment Coordination
Municipal Police Department	Emergency Data Collection
Municipal Public Safety Vehicles	On-board EV En Route Support
	On-board EV Incident Management Communication
Municipal Rail Notification System	Standard Rail Crossing
Municipal TOC	Collect Traffic Surveillance
	HRI Traffic Management
	Rail Operations Coordination
	TMC Environmental Monitoring
	TMC Evacuation Support
	TMC Incident Detection
	TMC Incident Dispatch Coordination/Communication
	TMC Regional Traffic Management
	TMC Signal Control
	TMC Work Zone Traffic Management
	Traffic Data Collection
	Traffic Maintenance
	Municipal Traffic Signals
Roadway Signal Controls	
Roadway Signal Priority	
Standard Rail Crossing	
Municipal/County Maintenance	MCM Environmental Information Collection
	MCM Environmental Information Processing
	MCM Incident Management
	MCM Roadway Maintenance and Construction
	MCM Vehicle Tracking
	MCM Winter Maintenance Management
	MCM Work Activity Coordination
MCM Work Zone Management	
Municipal/County Maintenance Vehicles	MCV Vehicle Location Tracking
	MCV Work Zone Support
Municipal/County Portable DMS	Roadway Work Zone Traffic Control
Municipal/County RWIS	Roadway Environmental Monitoring
Municipal/County Website	Basic Information Broadcast
Other TDOT Region Construction Office	MCM Work Activity Coordination
Other TDOT Region Maintenance	MCM Work Activity Coordination
Personal Computing Devices	Personal Interactive Information Reception
Private Fleet Management Systems	Fleet HAZMAT Management
Rail Freight	On-board Cargo Monitoring



Element Name	Equipment Package (Function)
TDOT CCTV Cameras	Roadway Basic Surveillance
TDOT District Maintenance	MCM Incident Management
	MCM Vehicle Tracking
	MCM Winter Maintenance Management
	MCM Work Activity Coordination
	MCM Work Zone Management
TDOT DMS	Roadway Traffic Information Dissemination
	Roadway Work Zone Traffic Control
TDOT Emergency Services Coordinator	MCM Incident Management
	TMC Evacuation Support
	TMC Incident Dispatch Coordination/Communication
TDOT Field Sensors	Roadway Basic Surveillance
TDOT HAR	Roadway Traffic Information Dissemination
	Roadway Work Zone Traffic Control
TDOT HELP Vehicles	On-board EV En Route Support
	On-board EV Incident Management Communication
TDOT Maintenance Headquarters	MCM Environmental Information Collection
	MCM Environmental Information Processing
TDOT Maintenance Vehicles	MCV Vehicle Location Tracking
	MCV Winter Maintenance
	MCV Work Zone Support
TDOT Project Planning Division Archive	Government Reporting Systems Support
	ITS Data Repository
	On-Line Analysis and Mining
	Traffic Data Collection
TDOT Public Information Office	Basic Information Broadcast
TDOT Region 1 Construction Office	MCM Work Activity Coordination
TDOT Region 1 HELP Dispatch	Service Patrol Management
TDOT Region 1 Maintenance	MCM Incident Management
	MCM Roadway Maintenance and Construction
TDOT Region 1 TMC - Knoxville	Collect Traffic Surveillance
	TMC Environmental Monitoring
	TMC Evacuation Support
	TMC Incident Detection
	TMC Incident Dispatch Coordination/Communication
	TMC Regional Traffic Management
	TMC Traffic Information Dissemination
	TMC Work Zone Traffic Management
	Traffic Data Collection
	Traffic Maintenance



Element Name	Equipment Package (Function)
TDOT Region 2 TMC - Chattanooga	TMC Regional Traffic Management
TDOT Region 3 TMC - Nashville	TMC Regional Traffic Management
TDOT Region 4 TMC - Memphis	TMC Regional Traffic Management
TDOT RWIS Sensors	Roadway Environmental Monitoring
TDOT Smart Work Zone Equipment	Roadway Work Zone Traffic Control
TDOT SmartWay Information System (TSIS)	MCM Work Activity Coordination
TDOT SmartWay Website	Basic Information Broadcast
	Interactive Infrastructure Information
	ISP Emergency Traveler Information
	ISP Traveler Data Collection
TEMA	Emergency Commercial Vehicle Response
	Emergency Evacuation Support
	Emergency Response Management
	Incident Command
Tennessee 511 System	Interactive Infrastructure Information
	ISP Emergency Traveler Information
	ISP Traveler Data Collection
	Traveler Telephone Information
Tennessee GoSmart Kiosks	Remote Interactive Information Reception
THP Dispatch	Emergency Call-Taking
	Emergency Commercial Vehicle Response
	Emergency Dispatch
	Emergency Environmental Monitoring
	Emergency Evacuation Support
	Incident Command
THP Vehicles	On-board EV En Route Support
	On-board EV Incident Management Communication
THP Weigh-in-Motion	Roadside Electronic Screening
	Roadside WIM
TITAN Database	Government Reporting Systems Support
	ITS Data Repository



Kimley-Horn
and Associates, Inc.



APPENDIX D – STAKEHOLDER DATABASE

Lakeway Regional ITS Architecture Stakeholder Attendance Record

Invitees

Workshop Attendance

<i>Organization</i>	<i>First Name</i>	<i>Last Name</i>	<i>Kick-Off</i>	<i>ITS Architecture</i>	<i>ITS Deployment Plan</i>	<i>Comment Resolution</i>
Appalachian Electric Co-op			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bohanan's Forensic, Inc.	Arthur	Bohanan	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Carson Newman College	Joe Bill	Sloan	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
City of Dandridge - Fire Department	Chuck	McSpadden	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
City of Dandridge - Police Department	Carson	Williams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
City of Dandridge - Public Works Department	Gregg	Gann	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
City of Jefferson City - Fire Department	Robert	Turner, Jr.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
City of Jefferson City - Police Department	William	Clark	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
City of Jefferson City - Public Works Department	Brian	Rhodes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
City of Jefferson City - Public Works Department	Mike	Jones	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
City of Morristown - Engineering Department	Jeff	Branham	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
City of Morristown - Fire Department	Bill	Honeycutt	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
City of Morristown - Fire Department	Clark	Taylor	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
City of Morristown - Information Technology Department	Robert	Neill	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
City of Morristown - Police Department	Charles	Letterman	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
City of Morristown - Police Department	Gary	Lowe	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
City of Morristown - Police Department	Roger	Overholt	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
City of Morristown - Public Works Department	Buddy	Fielder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
City of Morristown - Public Works Department	Bryan	Fowler	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cumberland Gap Tunnel Authority	Michael	Jones	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

<i>Organization</i>	<i>First Name</i>	<i>Last Name</i>	<i>Kick-Off</i>	<i>ITS Architecture</i>	<i>ITS Deployment Plan</i>	<i>Comment Resolution</i>
Cumberland Gap Tunnel Authority	John	Burke	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ETHRA Public Transit	Gary	Holiway	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FHWA - Tennessee Division	Don	Gedge	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hamblen County E911	Jimmy	Peoples	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hamblen County Emergency Management Agency	S. Eric	Carpenter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hamblen County Public Works Dept	Barry	Poole	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hamblen County Sheriff's Office	Esco	Jarnigan	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Jefferson County E-911	Marcus	Reed	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Jefferson County Emergency Medical Services	Brad	Phillips	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Jefferson County Highway Department	Charles	Tipton	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Jefferson County Sheriff's Office	David	Davenport	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Jefferson County Sheriff's Office	Randall	Woods	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Lakeway MTPO	Terren	Barret	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Lakeway MTPO	Rich	DesGroseilliers	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Morristown Utility Systems	Jody	Wigington	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Morristown-Hamblen Emergency Medical Service	Danny	Houseright	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Morristown-Hamblen Hospital	Mark	Thompson	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Norfolk Southern Corp. Admin - Hwy Grade Crossing	Rick	Ray	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Norfolk Southern Railroad	William J. ("Bill")	Harris III	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Panther Creek State Park	John	La Croix	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TDOT Design Division	Pete	Hiett	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TDOT Long-Range Planning Division	Deborah	Fleming	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TDOT Long-Range Planning Division	Joseph	Roach	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

<i>Organization</i>	<i>First Name</i>	<i>Last Name</i>	<i>Kick-Off</i>	<i>ITS Architecture</i>	<i>ITS Deployment Plan</i>	<i>Comment Resolution</i>
TDOT Long-Range Planning Division	Terry	Gladden	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TDOT Region 1	Mark	Best	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tennessee Highway Patrol	Mike	Higgs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tennessee Highway Patrol	Walter	Owenby	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tennessee Highway Patrol - Fall Branch District	Danny	Talley	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tennessee Highway Patrol - Fall Branch District	Richard "Dean"	Hurley	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Town of New Market	Charles	Guinn	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Town of New Market - Police Department	Cleve	Minor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Town of New Market - Volunteer Fire Department			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Town of White Pine	Stanley	Wilder	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Town of White Pine - Police Department	Dean	Smith	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Town of White Pine - Public Works Department	Todd	Ellis	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Town of White Pine - Volunteer Fire Department	Brad	Brady	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Walters State Community College	Dr. Wade B.	McCamey	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Walters State Community College - Information and Educational Technologies	Joe	Sargent	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Walters State Community College Police Department	Sarah	Rose	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**APPENDIX E – ARCHITECTURE MAINTENANCE DOCUMENTATION
FORM**



Lakeway Regional ITS Architecture Architecture Maintenance Documentation Form

Please complete the following questionnaire to document changes for the Lakeway Regional ITS Architecture. Modifications will be made during the next architecture update.

Agency	
Agency Contact Person	
Street Address	
City	
State, Zip Code	
Telephone	
Fax	
E-Mail	

Change Information

Please indicate the type of change:

- Administrative: Basic changes that do not affect the structure of the architecture
Examples include: Changes to stakeholder or element name, element status, or data flow status
- Functional – Single Agency: Structural changes that impact only one agency
Examples include: Addition of a new market package or modifications to an existing market package that affects only your agency
- Functional – Multiple Agency: Structural changes that have the potential to impact multiple agencies
Examples include: Addition of a new market package or modifications to an existing market package that involves multiple agencies, incorporation of a new stakeholder into the architecture

Describe requested change	
<p>What, if any, market packages are impacted by the proposed change?</p> <p>Note: If the proposed change involves creating or modifying a market package please attach a sketch of the new or modified market package.</p>	

<p>Does the proposed change affect any additional stakeholders?</p>	
<p>Has coordination occurred with any impacted stakeholders? Please describe the results.</p>	

Please submit change forms to:

Lakeway MTPO
 100 W 1st North St
 Morristown, TN 37814
 Phone: 423-581-6277
 Fax: 423-585-4679

Date Request Filed: _____