

APPENDIX D – ELEMENT FUNCTIONS

Element Name	Functional Area
AACOG Website	ISP Traveler Data Collection
	Infrastructure Provided Trip Planning
	Infrastructure Provided Dynamic Ridesharing
Alamo RMA Field Sensors	Roadway Basic Surveillance
	Roadway Probe Beacons
Alamo RMA Operations Center	Collect Traffic Surveillance
	TMC Probe Information Collection
	TMC Freeway Management
	TMC Traffic Information Dissemination
	TMC Traffic Network Performance Evaluation
	TMC Toll/Parking Coordination
Alamo RMA Roadway Service Patrol Vehicles	On-board EV En Route Support
	On-board EV Incident Management Communication
Alamo RMA Toll Administration	Toll Administration
Alamo RMA Toll Gantry	Toll Plaza Toll Collection
Alamo RMA Website	ISP Traveler Data Collection
	ISP Probe Information Collection
	Infrastructure Provided Trip Planning
ART CCTV Cameras	Field Secure Area Sensor Monitoring
	Field Secure Area Surveillance
ART Demand Response Vehicles	On-board Transit Trip Monitoring
	On-board Paratransit Operations
	On-board Transit Fare and Load Management
	On-board Transit Security
	On-board Maintenance
	On-board Transit Signal Priority
	On-board Transit Information Services
ART Deviated Fixed Route Vehicles	On-board Transit Trip Monitoring
	On-board Fixed Route Schedule Management
	On-board Transit Fare and Load Management
	On-board Transit Security
	On-board Maintenance
	On-board Transit Signal Priority
	On-board Transit Information Services
ART Kerrville Dispatch Center	Transit Center Vehicle Tracking
	Transit Center Fixed-Route Operations
	Transit Center Paratransit Operations
	Transit Center Fare and Load Management
	Transit Center Security
	Transit Vehicle Operator Scheduling
	Transit Center Information Services
	Transit Center Multi-Modal Coordination
ART Kiosks	Remote Transit Information Services
	Remote Transit Fare Management
ART Origin/Destination Data Server	ITS Data Repository
	Traffic and Roadside Data Archival
	Government Reporting Systems Support

Element Name	Functional Area
ART San Antonio Dispatch Center	Transit Center Vehicle Tracking
	Transit Center Fixed-Route Operations
	Transit Center Paratransit Operations
	Transit Center Fare and Load Management
	Transit Center Security
	Transit Vehicle Operator Scheduling
	Transit Garage Maintenance
	Transit Center Information Services
	Transit Center Multi-Modal Coordination
	Transit Data Collection
Bexar County Sheriff's Office	Emergency Call-Taking
	Emergency Dispatch
	Emergency Routing
	Incident Command
	Emergency Response Management
	Emergency Evacuation Support
CCSWT CCTV Cameras	Field Secure Area Sensor Monitoring
	Field Secure Area Surveillance
CCSWT Demand Response Vehicles	On-board Transit Trip Monitoring
	On-board Paratransit Operations
	On-board Transit Fare and Load Management
	On-board Transit Security
	On-board Maintenance
	On-board Transit Signal Priority
	On-board Transit Information Services
CCSWT Deviated Fixed Route Vehicles	On-board Transit Trip Monitoring
	On-board Fixed Route Schedule Management
	On-board Transit Fare and Load Management
	On-board Transit Security
	On-board Maintenance
	On-board Transit Signal Priority
	On-board Transit Information Services
CCSWT Kiosks	Remote Transit Information Services
	Remote Transit Fare Management
CCSWT Main Office	Transit Center Vehicle Tracking
	Transit Center Fixed-Route Operations
	Transit Center Paratransit Operations
	Transit Center Fare and Load Management
	Transit Center Security
	Transit Vehicle Operator Scheduling
	Transit Garage Maintenance
	Transit Center Multi-Modal Coordination
CCSWT Maverick County Dispatch	Transit Center Vehicle Tracking
	Transit Center Fixed-Route Operations
	Transit Center Paratransit Operations
	Transit Center Fare and Load Management

Element Name	Functional Area
CCSWT Maverick County Dispatch	Transit Center Security
	Transit Vehicle Operator Scheduling
	Transit Center Multi-Modal Coordination
CCSWT Website	ISP Traveler Data Collection
	Infrastructure Provided Trip Planning
Coach America KBC Bus	On-board Transit Trip Monitoring
	On-board Fixed Route Schedule Management
	On-board Transit Fare and Load Management
	On-board Transit Security
Coach America KBC CCTV Cameras	Field Secure Area Sensor Monitoring
	Field Secure Area Surveillance
Coach America KBC Home Office	Center Secure Area Surveillance
	Center Secure Area Sensor Management
	Center Secure Area Alarm Support
	Transit Center Vehicle Tracking
	Transit Center Fixed-Route Operations
	Transit Center Fare and Load Management
	Transit Center Security
	Transit Vehicle Operator Scheduling
	Transit Garage Maintenance
	Transit Center Information Services
	Transit Center Multi-Modal Coordination
	Transit Data Collection
	Coach America KBC Origin/Destination Data Server
Traffic and Roadside Data Archival	
Government Reporting Systems Support	
Data Server	
Coach America KBC Passenger Information Signs	Basic Information Broadcast
Coach America KBC Ticketing System	Remote Transit Information Services
	Remote Transit Fare Management
Coach America KBC Website	ISP Traveler Data Collection
	Infrastructure Provided Trip Planning
Commercial Vehicles	Vehicle Location Determination
	Vehicle Toll/Parking Interface
	Vehicle Mayday I/F
COSA Barrier Gates	Roadway Equipment Coordination
	Field Barrier System Control
COSA CCTV Cameras	Roadway Basic Surveillance
	Roadway Incident Detection
	Standard Rail Crossing
COSA DMS	Roadway Traffic Information Dissemination
	Roadway Equipment Coordination
COSA FD/EMS Dispatch	Emergency Call-Taking
	Emergency Dispatch
	Emergency Routing
	Incident Command

Element Name	Functional Area
COSA FD/EMS Dispatch	Emergency Response Management
	Emergency Evacuation Support
	Mayday Support
	Emergency Commercial Vehicle Response
COSA FD/EMS Vehicles	On-board EV En Route Support
	On-board EV Incident Management Communication
COSA Field Sensors	Roadway Basic Surveillance
	Roadway Incident Detection
	Roadway Equipment Coordination
COSA Lane Control Signals	Roadway Freeway Control
	Roadway Reversible Lanes
COSA Parking Division	Parking Management
	Parking Electronic Payment
	Parking Coordination
COSA Parking Division DMS	Roadway Traffic Information Dissemination
	Roadway Equipment Coordination
COSA PD Dispatch	Emergency Call-Taking
	Emergency Dispatch
	Incident Command
	Emergency Response Management
	Emergency Environmental Monitoring
	Mayday Support
COSA PD Vehicles	On-board EV En Route Support
	On-board EV Incident Management Communication
COSA Public Works	MCM Vehicle Tracking
	MCM Incident Management
	MCM Roadway Maintenance and Construction
	MCM Work Zone Management
	MCM Work Zone Safety Management
	MCM Work Activity Coordination
COSA Public Works Vehicles	MCV Vehicle Location Tracking
COSA Street Maintenance Division	MCM Incident Management
	MCM Work Zone Management
COSA TMC	TMC Probe Information Collection
	TMC Signal Control
	TMC Traffic Information Dissemination
	TMC Regional Traffic Control
	TMC Incident Detection
	TMC Incident Dispatch Coordination/Communication
	TMC Evacuation Support
	TMC Traffic Network Performance Evaluation
	TMC Environmental Monitoring
	HRI Traffic Management
	Rail Operations Coordination
	TMC Reversible Lane Management

Element Name	Functional Area
COSA TMC	TMC Speed Monitoring
	Barrier System Management
	Traffic Maintenance
	TMC Work Zone Traffic Management
	TMC Multimodal Coordination
COSA Traffic Operations	Collect Traffic Surveillance
	TMC Signal Control
	TMC Traffic Information Dissemination
	TMC Regional Traffic Control
	TMC Incident Detection
	TMC Incident Dispatch Coordination/Communication
	TMC Evacuation Support
	HRI Traffic Management
	Rail Operations Coordination
	TMC Reversible Lane Management
	Barrier System Management
	Traffic Maintenance
	TMC Work Zone Traffic Management
	COSA Traffic Signals
Roadway Signal Controls	
Roadway Signal Priority	
Roadway Equipment Coordination	
COSA Water Level and Rainfall Sensors	Roadway Probe Beacons
	Roadway Environmental Monitoring
	Field Barrier System Control
COSA Website	Basic Information Broadcast
County/Municipal Barrier Gates	Roadway Equipment Coordination
	Field Barrier System Control
County/Municipal CCTV Cameras	Roadway Basic Surveillance
County/Municipal DMS	Roadway Traffic Information Dissemination
	Roadway Work Zone Traffic Control
County/Municipal EOC	Incident Command
	Emergency Response Management
	Emergency Evacuation Support
	Emergency Environmental Monitoring
	Mayday Support
	Emergency Commercial Vehicle Response
Emergency Data Collection	
County/Municipal Field Sensors	Roadway Basic Surveillance
	Roadway Signal Controls
	Roadway Traffic Information Dissemination
	Roadway Incident Detection
	Standard Rail Crossing
	Roadway Equipment Coordination
	Roadway Infrastructure Monitoring
County/Municipal Maintenance Center	MCM Incident Management

Element Name	Functional Area
County/Municipal Maintenance Center	MCM Roadway Maintenance and Construction
	MCM Work Zone Management
	MCM Work Activity Coordination
County/Municipal Public Safety Dispatch	Emergency Call-Taking
	Emergency Dispatch
	Emergency Routing
	Incident Command
	Emergency Response Management
	Emergency Evacuation Support
	Mayday Support
County/Municipal Public Safety Vehicles	Emergency Commercial Vehicle Response
	On-board EV En Route Support
County/Municipal Public Works	On-board EV Incident Management Communication
	MCM Vehicle Tracking
	MCM Vehicle and Equipment Maintenance Management
	MCM Incident Management
County/Municipal Public Works Vehicles	MCM Roadway Maintenance and Construction
	MCV Vehicle Location Tracking
County/Municipal TOC	Collect Traffic Surveillance
	TMC Signal Control
	TMC Traffic Information Dissemination
	TMC Regional Traffic Control
	TMC Incident Detection
	TMC Incident Dispatch Coordination/Communication
	TMC Evacuation Support
	TMC Environmental Monitoring
	HRI Traffic Management
	Rail Operations Coordination
	Traffic Maintenance
	TMC Work Zone Traffic Management
	TMC Multimodal Coordination
	Traffic Data Collection
County/Municipal Traffic Signals	Roadway Basic Surveillance
	Roadway Signal Controls
	Roadway Signal Priority
	Standard Rail Crossing
	Roadway Equipment Coordination
County/Municipal Website	Basic Information Broadcast
DPS Communications	Emergency Call-Taking
	Emergency Dispatch
	Incident Command
	Emergency Response Management
	Emergency Evacuation Support
	Mayday Support

Element Name	Functional Area
DPS Communications	Emergency Commercial Vehicle Response
	Emergency Data Collection
DPS Emergency Vehicles	On-board EV En Route Support
	On-board EV Incident Management Communication
Hazard Detection Equipment	Roadside Safety and Security Inspection
	Roadside HAZMAT Detection
	Field Secure Area Sensor Monitoring
	Field Secure Area Surveillance
Other Regional Transit Providers	Transit Center Vehicle Tracking
	Transit Center Fixed-Route Operations
	Transit Center Paratransit Operations
	Transit Center Fare and Load Management
	Transit Center Security
	Transit Vehicle Operator Scheduling
	Transit Garage Maintenance
	Transit Center Information Services
	Transit Center Multi-Modal Coordination
	Transit Evacuation Support
Transit Data Collection	
Other Transit Management	Transit Center Vehicle Tracking
	Transit Center Fixed-Route Operations
	Transit Center Paratransit Operations
	Transit Center Fare and Load Management
	Transit Center Security
	Transit Vehicle Operator Scheduling
	Transit Garage Maintenance
	Transit Center Information Services
	Transit Center Multi-Modal Coordination
	Transit Evacuation Support
Transit Data Collection	
Other TxDOT District DMS	Roadway Traffic Information Dissemination
Other TxDOT District TMCs	TMC Signal Control
	TMC Freeway Management
	TMC Traffic Information Dissemination
	TMC Regional Traffic Control
	TMC Incident Detection
	TMC Incident Dispatch Coordination/Communication
	TMC Evacuation Support
TMC Traffic Network Performance Evaluation	
Personal Emergency Transportation Plan Website	ISP Emergency Traveler Information
Private Concierge Service Provider	Mayday Support
Private Fleet Management Systems	Fleet HAZMAT Management
Private Sector Traveler Information Services	ISP Traveler Data Collection
	Infrastructure Provided Trip Planning
Private Transportation Providers	Transit Center Multi-Modal Coordination
Private Traveler Vehicles	Vehicle Toll/Parking Interface

Element Name	Functional Area
Private Traveler Vehicles	Vehicle Mayday I/F
Private Travelers Personal Computing Devices	Personal Basic Information Reception
	Personal Interactive Information Reception
Public Sector Handheld Devices	Personal Basic Information Reception
	Personal Interactive Information Reception
SA/Bexar County EOC	Incident Command
	Emergency Response Management
	Emergency Evacuation Support
	Emergency Environmental Monitoring
	Mayday Support
	Emergency Commercial Vehicle Response
	Emergency Data Collection
San Antonio CDA Concessionaire Field Sensors	Roadway Basic Surveillance
	Roadway Probe Beacons
	Roadway Freeway Control
	Roadway Traffic Information Dissemination
	Roadway Incident Detection
	Roadway Field Device Monitoring
San Antonio CDA Concessionaire Operations Center	Collect Traffic Surveillance
	TMC Probe Information Collection
	TMC Freeway Management
	TMC Traffic Information Dissemination
	TMC Regional Traffic Control
	TMC Incident Detection
	TMC Evacuation Support
	TMC Traffic Network Performance Evaluation
	TMC Toll/Parking Coordination
San Antonio CDA Concessionaire Toll Administration	Toll Administration
San Antonio CDA Concessionaire Toll Gantry	Toll Plaza Toll Collection
San Antonio International Airport	Center Secure Area Surveillance
	Center Secure Area Sensor Management
State Office of Emergency Management	Emergency Response Management
	Emergency Evacuation Support
TCEQ Field Emissions Monitors	Roadway Emissions Monitoring
TCEQ Monitoring Operations Section	Emissions Data Management
	Emissions Data Collection
TCEQ State Headquarters	Emissions Data Management
Texas DPS	Emergency Dispatch
	Emergency Routing
	Incident Command
	Emergency Response Management
	Emergency Evacuation Support
	Emergency Commercial Vehicle Response
	Emergency Data Collection
TransGuide ATMS	ISP Traveler Data Collection

Element Name	Functional Area
TransGuide ATMS	Basic Information Broadcast
	Interactive Infrastructure Information
	Traveler Telephone Information
	ISP Data Collection
TransGuide Data Archive	ITS Data Repository
	Traffic and Roadside Data Archival
	Government Reporting Systems Support
	On-Line Analysis and Mining
TransGuide Data Server	ISP Traveler Data Collection
	Basic Information Broadcast
TransGuide LPTV	Basic Information Broadcast
TransGuide Operations Center	Incident Command
	Service Patrol Management
	Collect Traffic Surveillance
	TMC Probe Information Collection
	TMC Signal Control
	TMC Freeway Management
	TMC Traffic Information Dissemination
	TMC Regional Traffic Control
	TMC Incident Detection
	TMC Incident Dispatch Coordination/Communication
	TMC Evacuation Support
	TMC Traffic Network Performance Evaluation
	TMC Environmental Monitoring
	TMC Speed Monitoring
	Barrier System Management
	Safeguard System Management
	Traffic Maintenance
	TMC Work Zone Traffic Management
	TMC Multimodal Coordination
	Traffic Data Collection
TransGuide Website	ISP Traveler Data Collection
	ISP Probe Information Collection
	Basic Information Broadcast
Traveler Information Kiosks	Remote Basic Information Reception
	Remote Interactive Information Reception
	Remote Transit Information Services
	Remote Transit Fare Management
TxDOT 511 System	ISP Traveler Data Collection
	Basic Information Broadcast
	Interactive Infrastructure Information
	Traveler Telephone Information
TxDOT Austin District TMC (CTECC)	Infrastructure Provided Trip Planning
	TMC Signal Control
	TMC Freeway Management
	TMC Regional Traffic Control
	TMC Incident Detection

Element Name	Functional Area
TxDOT Austin District TMC (CTECC)	TMC Incident Dispatch Coordination/Communication
	TMC Evacuation Support
	TMC Traffic Network Performance Evaluation
	TMC Environmental Monitoring
	Traffic Maintenance
	TMC Work Zone Traffic Management
	Traffic Data Collection
TxDOT Barrier Gates	Roadway Equipment Coordination
	Field Barrier System Control
TxDOT CCTV Cameras	Roadway Basic Surveillance
	Roadway Incident Detection
	Field Secure Area Sensor Monitoring
	Field Secure Area Surveillance
TxDOT Corpus Christi District TMC	TMC Signal Control
	TMC Freeway Management
	TMC Traffic Information Dissemination
	TMC Regional Traffic Control
	TMC Incident Detection
	TMC Evacuation Support
TxDOT DMS	Roadway Traffic Information Dissemination
	Roadway Equipment Coordination
	Roadway Work Zone Traffic Control
TxDOT Field Sensors	Roadway Basic Surveillance
	Roadway Signal Controls
	Roadway Freeway Control
	Roadway Incident Detection
	Roadway Equipment Coordination
	Roadway Speed Monitoring
TxDOT Flood Detection	Roadway Equipment Coordination
	Roadway Environmental Monitoring
	Field Barrier System Control
TxDOT HAR	Roadway Traffic Information Dissemination
	Roadway Work Zone Traffic Control
TxDOT Highway Conditions Reporting System	ISP Traveler Data Collection
	Basic Information Broadcast
	Interactive Infrastructure Information
	Traveler Telephone Information
	MCM Work Zone Management
	MCM Work Activity Coordination
TxDOT Lane Control Signals	Roadway Freeway Control
TxDOT Laredo District TMC (STRATIS)	TMC Signal Control
	TMC Freeway Management
	TMC Traffic Information Dissemination
	TMC Regional Traffic Control
	TMC Evacuation Support
TxDOT Maintenance Vehicles	MCV Vehicle Location Tracking

Element Name	Functional Area
TxDOT Maintenance Vehicles	MCV Work Zone Support
	MCV Vehicle Safety Monitoring
TxDOT Roadway Service Patrol Vehicles	On-board EV En Route Support
	On-board EV Incident Management Communication
TxDOT San Antonio District Maintenance	MCM Vehicle Tracking
	MCM Environmental Information Collection
	MCM Environmental Information Processing
	MCM Incident Management
	MCM Roadway Maintenance and Construction
	MCM Work Zone Management
	MCM Speed Monitoring
	MCM Work Zone Safety Management
TxDOT San Antonio District Public Information Office	MCM Work Activity Coordination
	ISP Traveler Data Collection
TxDOT Stormwater Pump Stations	Basic Information Broadcast
	ISP Emergency Traveler Information
	Roadway Environmental Monitoring
TxDOT Traffic Signal Shop	Field Safeguard System Control
	Collect Traffic Surveillance
	TMC Signal Control
	HRI Traffic Management
	Rail Operations Coordination
	Traffic Maintenance
TxDOT Traffic Signals	TMC Multimodal Coordination
	Roadway Basic Surveillance
	Roadway Signal Controls
	Roadway Signal Priority
	Standard Rail Crossing
TxDOT Work Zone Equipment	Roadway Equipment Coordination
	Roadway Speed Monitoring
	Roadway Work Zone Traffic Control
	Roadway Work Zone Safety
VIA Bus	On-board Transit Trip Monitoring
	On-board Fixed Route Schedule Management
	On-board Transit Fare and Load Management
	On-board Transit Security
	On-board Maintenance
	On-board Transit Signal Priority
	On-board Transit Information Services
VIA Data Mart	ITS Data Repository
	Traffic and Roadside Data Archival
	Government Reporting Systems Support
VIA Demand Response Vehicle	On-board Transit Trip Monitoring
	On-board Paratransit Operations
	On-board Transit Security

Element Name	Functional Area
VIA Demand Response Vehicle	On-board Maintenance
VIA Email Subscription Service	Personal Interactive Information Reception
VIA Headquarters	Center Secure Area Surveillance
	Center Secure Area Sensor Management
	Center Secure Area Alarm Support
	Transit Center Vehicle Tracking
	On-board Transit Fare and Load Management
	Transit Center Fixed-Route Operations
	Transit Center Paratransit Operations
	Transit Center Fare and Load Management
	Transit Center Security
	Transit Vehicle Operator Scheduling
	Transit Garage Maintenance
	Transit Center Information Services
	Transit Center Multi-Modal Coordination
	Transit Evacuation Support
Transit Data Collection	
VIA Headquarters CCTV Cameras	Field Secure Area Surveillance
VIA Information Centers	Remote Transit Information Services
	Remote Transit Fare Management
VIA IVR Phone System	Interactive Infrastructure Information
	Traveler Telephone Information
	Infrastructure Provided Trip Planning
VIA Kiosks	Remote Transit Information Services
	Remote Transit Fare Management
VIA Pager/Telephone Service	Personal Interactive Information Reception
VIA Passenger Information Signs	Remote Transit Information Services
VIA TransGuide Dispatch	Transit Center Vehicle Tracking
	Transit Center Fixed-Route Operations
	Transit Center Paratransit Operations
	Transit Center Fare and Load Management
	Transit Center Security
	Transit Vehicle Operator Scheduling
	Transit Center Information Services
Transit Center Multi-Modal Coordination	
VIA Transit Center/Bus Stops CCTV Cameras	Field Secure Area Surveillance
VIA Transit Police	Emergency Response Management
	Center Secure Area Surveillance
	Center Secure Area Sensor Management
	Center Secure Area Alarm Support
VIA Transit Police Vehicle	On-board EV En Route Support
	On-board EV Incident Management Communication
VIA Website	ISP Traveler Data Collection
	Basic Information Broadcast
	Infrastructure Provided Trip Planning

Element Name	Functional Area
Watermark Hill Country Water Level Sensors	Roadway Environmental Monitoring
Watermark Safety Operations Center	MCM Environmental Information Collection
	MCM Environmental Information Processing