

Appendix D: 2025 H-GAC ITS Architecture Roles and Responsibilities

RR Area Name	Stakeholder	RR Description
Archived Data System for H-GAC ITS Architecture	City of Houston	Collect and maintain data from ITS deployments.
Archived Data System for H-GAC ITS Architecture	City of Houston	Share collected data from ITS deployments with regional agencies.
Archived Data System for H-GAC ITS Architecture	Fort Bend County	Collect and maintain data from ITS deployments.
Archived Data System for H-GAC ITS Architecture	Fort Bend County	Share collected data from ITS deployments with regional agencies.
Archived Data System for H-GAC ITS Architecture	Harris County	Collect and maintain data from ITS deployments.
Archived Data System for H-GAC ITS Architecture	Harris County	Share collected data from ITS deployments with regional agencies.
Archived Data System for H-GAC ITS Architecture	Harris County Transit	Share collected data from transit ITS deployments with regional transit agencies.
Archived Data System for H-GAC ITS Architecture	Harris County Transit	Collect and maintain data from transit ITS deployments.
Archived Data System for H-GAC ITS Architecture	Local Agencies	Collect and maintain data from ITS deployments.
Archived Data System for H-GAC ITS Architecture	Local Agencies	Share collected data from ITS deployments with regional agencies.
Archived Data System for H-GAC ITS Architecture	The Woodlands Regional Transit Authority	Share collected data from transit ITS deployments with regional transit agencies.

RR Area Name	Stakeholder	RR Description
Archived Data System for H-GAC ITS Architecture	The Woodlands Regional Transit Authority	Collect and maintain data from transit ITS deployments.
Archived Data System for H-GAC ITS Architecture	TxDOT Beaumont District	Collect and maintain data from ITS deployments.
Archived Data System for H-GAC ITS Architecture	TxDOT Beaumont District	Share collected data from ITS deployments with regional agencies.
Archived Data System for H-GAC ITS Architecture	TxDOT Houston District	Share collected data from ITS deployments with regional agencies.
Archived Data System for H-GAC ITS Architecture	TxDOT Houston District	Collect and maintain data from ITS deployments.
Emergency Management for H-GAC ITS Architecture	City of Houston	Participate in regional emergency planning to support large-scale incidents and disasters.
Emergency Management for H-GAC ITS Architecture	City of Houston	Responsible for the dispatch of emergency vehicles to incidents and tracking of their location and status.
Emergency Management for H-GAC ITS Architecture	City of Houston	Responsible for the routing of emergency vehicles to facilitate the safest/quickest arrival at an incident.
Emergency Management for H-GAC ITS Architecture	Harris County	Responsible for the routing of emergency vehicles to facilitate the safest/quickest arrival at an incident.
Emergency Management for H-GAC ITS Architecture	Harris County	Responsible for the dispatch of emergency vehicles to incidents and tracking of their location and status.
Emergency Management for H-GAC ITS Architecture	Harris County	Participate in regional emergency planning to support large-scale incidents and disasters.

RR Area Name	Stakeholder	RR Description
Emergency Management for H-GAC ITS Architecture	Harris County	Dispatch service patrol vehicles along regional freeways.
Emergency Management for H-GAC ITS Architecture	Houston Galveston Area Council	Dispatch service patrol vehicles along regional freeways.
Emergency Management for H-GAC ITS Architecture	Local Agencies	Participate in regional emergency planning to support large-scale incidents and disasters.
Emergency Management for H-GAC ITS Architecture	Local Agencies	Responsible for the dispatch of emergency vehicles to incidents and tracking of their location and status.
Emergency Management for H-GAC ITS Architecture	Local Agencies	Responsible for the routing of emergency vehicles to facilitate the safest/quickest arrival at an incident.
Emergency Management for H-GAC ITS Architecture	TxDOT Beaumont District	Participate in regional emergency planning to support large-scale incidents and disasters.
Emergency Management for H-GAC ITS Architecture	TxDOT Beaumont District	Responsible for coordination with adjacent districts as needed to support emergency management.
Emergency Management for H-GAC ITS Architecture	TxDOT Houston District	Responsible for coordination with adjacent districts as needed to support emergency management.
Emergency Management for H-GAC ITS Architecture	TxDOT Houston District	Participate in regional emergency planning to support large-scale incidents and disasters.
Emergency Management for H-GAC ITS Architecture	TxDOT Houston District	Dispatch service patrol vehicles along regional freeways in coordination with H-GAC and Harris County.
Freeway Management for H-GAC ITS Architecture	TxDOT Beaumont District	Operate network surveillance equipment including CCTV cameras and vehicle detection on state roadways.
Freeway Management for H-GAC ITS Architecture	TxDOT Beaumont District	Operate DMS to distribute traffic information and roadway conditions to travelers on the roadway.

RR Area Name	Stakeholder	RR Description
Freeway Management for H-GAC ITS Architecture	TxDOT Houston District	Operate DMS to distribute traffic information and roadway conditions to travelers on the roadway.
Freeway Management for H-GAC ITS Architecture	TxDOT Houston District	Operate network surveillance equipment including CCTV cameras and vehicle detection on state roadways.
Incident Management for H-GAC ITS Architecture	City of Houston	Coordinate maintenance resources for incident response.
Incident Management for H-GAC ITS Architecture	City of Houston	Remotely control traffic and video sensors to support incident detection and verification.
Incident Management for H-GAC ITS Architecture	City of Houston	Responsible for coordination with other traffic operations centers and emergency management agencies for coordinated incident management.
Incident Management for H-GAC ITS Architecture	City of Houston	Responsible for the dissemination of traffic related data to other centers and the media.
Incident Management for H-GAC ITS Architecture	City of Houston	Remotely control traffic from TranStar TMC to support incident detection.
Incident Management for H-GAC ITS Architecture	Harris County	Dispatch public safety vehicles to incidents.
Incident Management for H-GAC ITS Architecture	Harris County	Coordinate incident response with emergency dispatch agencies, any municipal TOCs, and the GDOT Atlanta TMC for incidents on state facilities.
Incident Management for H-GAC ITS Architecture	Harris County	Remotely control traffic from TranStar TMC to support incident detection.
Incident Management for H-GAC ITS Architecture	HCTRA	Remotely control traffic and video sensors to support incident detection and verification.

RR Area Name	Stakeholder	RR Description
Incident Management for H-GAC ITS Architecture	HCTRA	Responsible for coordination with other traffic operations centers and emergency management agencies for coordinated incident management.
Incident Management for H-GAC ITS Architecture	HCTRA	Responsible for the dissemination of traffic related data to other centers and the media.
Incident Management for H-GAC ITS Architecture	Houston Galveston Area Council	Dispatch service patrol vehicles along regional freeways.
Incident Management for H-GAC ITS Architecture	Local Agencies	Remotely control traffic and video sensors to support incident detection and verification.
Incident Management for H-GAC ITS Architecture	Local Agencies	Responsible for coordination with other traffic operations centers and emergency management agencies for coordinated incident management.
Incident Management for H-GAC ITS Architecture	Local Agencies	Responsible for the dissemination of traffic related data to other centers and the media.
Incident Management for H-GAC ITS Architecture	TxDOT Beaumont District	Operate DMS to distribute traffic information and roadway conditions to travelers on the roadway.
Incident Management for H-GAC ITS Architecture	TxDOT Beaumont District	Responsible for the dissemination of traffic related data to other centers and the media.
Incident Management for H-GAC ITS Architecture	TxDOT Beaumont District	Responsible for the development, coordination, and execution of special traffic management strategies during an evacuation.
Incident Management for H-GAC ITS Architecture	TxDOT Beaumont District	Coordinate maintenance resources for incident response.
Incident Management for H-GAC ITS Architecture	TxDOT Houston District	Remotely control traffic from TranStar TMC to support incident detection.

RR Area Name	Stakeholder	RR Description
Incident Management for H-GAC ITS Architecture	TxDOT Houston District	Coordinate maintenance resources for incident response.
Incident Management for H-GAC ITS Architecture	TxDOT Houston District	Responsible for the development, coordination, and execution of special traffic management strategies during an evacuation.
Incident Management for H-GAC ITS Architecture	TxDOT Houston District	Operate DMS to distribute traffic information and roadway conditions to travelers on the roadway.
Incident Management for H-GAC ITS Architecture	TxDOT Houston District	Responsible for the dissemination of traffic related data to other centers and the media.
Maintenance and Construction Management for the H-GAC ITS Architecture	City of Houston	Operation of systems to monitor and manage roadside maintenance.
Maintenance and Construction Management for the H-GAC ITS Architecture	City of Houston	Control and monitor traffic within construction areas by providing real-time information and dynamic traffic management strategies.
Maintenance and Construction Management for the H-GAC ITS Architecture	Harris County	Operation of systems to monitor and manage roadside maintenance.
Maintenance and Construction Management for the H-GAC ITS Architecture	Harris County	Control and monitor traffic within construction areas by providing real-time information and dynamic traffic management strategies.
Maintenance and Construction Management for the H-GAC ITS Architecture	HCTRA	Operation of systems to monitor and manage roadside maintenance.

RR Area Name	Stakeholder	RR Description
Maintenance and Construction Management for the H-GAC ITS Architecture	HCTRA	Control and monitor traffic within construction areas by providing real-time information and dynamic traffic management strategies.
Maintenance and Construction Management for the H-GAC ITS Architecture	Local Agencies	Operation of systems to monitor and manage roadside maintenance.
Maintenance and Construction Management for the H-GAC ITS Architecture	Local Agencies	Control and monitor traffic within construction areas by providing real-time information and dynamic traffic management strategies.
Maintenance and Construction Management for the H-GAC ITS Architecture	TxDOT Beaumont District	Control and monitor traffic within construction areas by providing real-time information and dynamic traffic management strategies.
Maintenance and Construction Management for the H-GAC ITS Architecture	TxDOT Beaumont District	Operation of systems to monitor and manage roadside maintenance.
Maintenance and Construction Management for the H-GAC ITS Architecture	TxDOT Houston District	Operation of systems to monitor and manage roadside maintenance.
Maintenance and Construction Management for the H-GAC ITS Architecture	TxDOT Houston District	Control and monitor traffic within construction areas by providing real-time information and dynamic traffic management strategies.
Parking Management for the H-GAC ITS Architecture	City of Galveston	The operation and management of parking sensors.
Parking Management for the H-GAC ITS Architecture	City of Galveston	Provide parking information to drivers.

RR Area Name	Stakeholder	RR Description
Parking Management for the H-GAC ITS Architecture	City of Houston	The operation and management of parking sensors.
Parking Management for the H-GAC ITS Architecture	City of Houston	Provide parking information to drivers.
Parking Management for the H-GAC ITS Architecture	Fort Bend County	Manage Park and Ride systems that allow commuters to park their vehicles in parking lots to access public transportation.
Parking Management for the H-GAC ITS Architecture	Harris County Transit	Manage Park and Ride systems that allow commuters to park their vehicles in parking lots to access public transportation.
Parking Management for the H-GAC ITS Architecture	Houston METRO	Manage Park and Ride systems that allow commuters to park their vehicles in parking lots to access public transportation.
Parking Management for the H-GAC ITS Architecture	The Woodlands Regional Transit Authority	Manage Park and Ride systems that allow commuters to park their vehicles in parking lots to access public transportation.
Traffic Signal Management for H-GAC ITS Architecture	City of Houston	Operate and maintain traffic signal systems.
Traffic Signal Management for H-GAC ITS Architecture	City of Houston	Provide traffic signal preemption for emergency vehicles.
Traffic Signal Management for H-GAC ITS Architecture	City of Houston	Provide traffic signal priority for transit vehicles.
Traffic Signal Management for H-GAC ITS Architecture	Harris County	Provide traffic signal priority for transit vehicles.
Traffic Signal Management for H-GAC ITS Architecture	Harris County	Operate and maintain traffic signal systems.

RR Area Name	Stakeholder	RR Description
Traffic Signal Management for H-GAC ITS Architecture	Harris County	Provide traffic signal preemption for emergency vehicles.
Traffic Signal Management for H-GAC ITS Architecture	Local Agencies	Provide traffic signal priority for transit vehicles.
Traffic Signal Management for H-GAC ITS Architecture	Local Agencies	Operate and maintain traffic signal systems.
Traffic Signal Management for H-GAC ITS Architecture	Local Agencies	Provide traffic signal preemption for emergency vehicles.
Traffic Signal Management for H-GAC ITS Architecture	TxDOT Beaumont District	Provide traffic signal priority for transit vehicles.
Traffic Signal Management for H-GAC ITS Architecture	TxDOT Beaumont District	Operate and maintain traffic signal systems.
Traffic Signal Management for H-GAC ITS Architecture	TxDOT Beaumont District	Provide traffic signal preemption for emergency vehicles.
Traffic Signal Management for H-GAC ITS Architecture	TxDOT Houston District	Provide traffic signal priority for transit vehicles.
Traffic Signal Management for H-GAC ITS Architecture	TxDOT Houston District	Operate and maintain traffic signal systems.
Traffic Signal Management for H-GAC ITS Architecture	TxDOT Houston District	Provide traffic signal preemption for emergency vehicles.
Transit Services for H-GAC ITS Architecture	Fort Bend County	Collect and store transit passenger origin-destination data.
Transit Services for H-GAC ITS Architecture	Fort Bend County	Coordinate with local agency staff on transit signal priority deployments.

RR Area Name	Stakeholder	RR Description
Transit Services for H-GAC ITS Architecture	Fort Bend County	Operate on-board systems to provide next stop annunciation.
Transit Services for H-GAC ITS Architecture	Fort Bend County	Provide transit passenger electronic fare payment on fixed route transit vehicles.
Transit Services for H-GAC ITS Architecture	Fort Bend County	Provide transit traveler information to the agency website, local private sector traveler information services, and the Tennessee 511 system.
Transit Services for H-GAC ITS Architecture	Harris County Transit	Provide transit traveler information to the agency website, local private sector traveler information services, and the Tennessee 511 system.
Transit Services for H-GAC ITS Architecture	Harris County Transit	Provide transit passenger electronic fare payment on fixed route transit vehicles.
Transit Services for H-GAC ITS Architecture	Harris County Transit	Operate on-board systems to provide next stop annunciation.
Transit Services for H-GAC ITS Architecture	Harris County Transit	Collect and store transit passenger origin-destination data.
Transit Services for H-GAC ITS Architecture	Harris County Transit	Coordinate with local agency staff on transit signal priority deployments.
Transit Services for H-GAC ITS Architecture	Houston METRO	Provide transit traveler information to the agency website, local private sector traveler information services, and the Tennessee 511 system.
Transit Services for H-GAC ITS Architecture	Houston METRO	Provide transit security on transit vehicles and at transit terminals through silent alarms and surveillance systems.
Transit Services for H-GAC ITS Architecture	Houston METRO	Provide transit passenger electronic fare payment on fixed route transit vehicles.

RR Area Name	Stakeholder	RR Description
Transit Services for H-GAC ITS Architecture	Houston METRO	Operates fixed route and paratransit services from central dispatch facilities responsible for tracking their location and status.
Transit Services for H-GAC ITS Architecture	Houston METRO	Coordinate with local agency staff on transit signal priority deployments.
Transit Services for H-GAC ITS Architecture	Houston METRO	Operate on-board systems to provide next stop annunciation.
Transit Services for H-GAC ITS Architecture	Houston METRO	Collect and store transit passenger origin-destination data.
Transit Services for H-GAC ITS Architecture	The Woodlands Regional Transit Authority	Collect and store transit passenger origin-destination data.
Transit Services for H-GAC ITS Architecture	The Woodlands Regional Transit Authority	Coordinate with local agency staff on transit signal priority deployments.
Transit Services for H-GAC ITS Architecture	The Woodlands Regional Transit Authority	Provide transit passenger electronic fare payment on fixed route transit vehicles.
Transit Services for H-GAC ITS Architecture	The Woodlands Regional Transit Authority	Provide transit traveler information to the agency website, local private sector traveler information services, and the Tennessee 511 system.
Traveler Information for H-GAC ITS Architecture	Local Agencies	Collect and distribute traveler information including incident information and maintenance and construction closure information.
Traveler Information for H-GAC ITS Architecture	Local Agencies	Collect, process, store, and broadcast traffic, transit, maintenance and construction, event and weather information, and evacuation information to travelers via traveler websites and 511 systems.

RR Area Name	Stakeholder	RR Description
Traveler Information for H-GAC ITS Architecture	TxDOT Beaumont District	Operate DMS for the distribution of traffic information and roadway conditions to travelers on the roadway.
Traveler Information for H-GAC ITS Architecture	TxDOT Beaumont District	Collect and distribute traveler information including incident information and maintenance and construction closure information.
Traveler Information for H-GAC ITS Architecture	TxDOT Beaumont District	Collect, process, store, and broadcast traffic, transit, maintenance and construction, event and weather information, and evacuation information to travelers via traveler websites and 511 systems.
Traveler Information for H-GAC ITS Architecture	TxDOT Houston District	Operate DMS for the distribution of traffic information and roadway conditions to travelers on the roadway.
Traveler Information for H-GAC ITS Architecture	TxDOT Houston District	Collect and distribute traveler information including incident information and maintenance and construction closure information.
Traveler Information for H-GAC ITS Architecture	TxDOT Houston District	Collect, process, store, and broadcast traffic, transit, maintenance and construction, event and weather information, and evacuation information to travelers via traveler websites and 511 systems.