

Remote Traveler Support Subsystem

- *Lower RGV Transit Kiosk and Information Displays

Personal Information Access Subsystem

- Private Traveler Personal Computing Devices

Transit Vehicle Subsystem

- BUS Transit Vehicles
- Independent School District Buses
- Lower RGV Development Council Transit Vehicles
- Rainbow Lines Transit Vehicles
- The Wave Transit Vehicles

Vehicle Subsystem

- Private Vehicles
- Lower RGV Trade Tag

Commercial Vehicle Subsystem

- Commercial Vehicles
- Rail Cars

Emergency Vehicle Subsystem

- City/County Police and Fire Vehicles
- DPS Vehicles
- Public/Private EMS Vehicles
- *TxDOT Courtesy Patrol Vehicles

Maint & Const Vehicle Subsystem

- County Road and Bridge Vehicles
- *Municipal Public Works Department Vehicles
- TxDOT Pharr District Maintenance Vehicles

Archived Data Management Subsystem

- BUS Transit Planning System
- *Cameron County Congestion Management System
- Hidalgo County Congestion Management Sys
- Hidalgo County Pavement Management Sys
- *Lower RGV Development Council Transit Planning System
- *Lower RGV MPO Transportation Data Archival System
- *Rainbow Lines Transit Planning System
- *The Wave Transit Planning System
- TxDOT Pharr District Pavement Management Sys
- TxDOT Pharr District Transportation Operational Data Archive
- TxDOT/DPS Crash Record Information System
- *TxDOT/International Bridges Corridor System

Maintenance & Construction Management

- County Road and Bridge
- Municipal Public Works Department
- TxDOT Pharr District Maintenance Sections

Traffic Management Subsystem

- *Brownsville MPO Traffic Management System
- Cameron County International Bridge Management System
- *City of Brownsville TMC
- *City of Harlingen TMC
- City of McAllen TMC
- City of Pharr TMC
- *Hidalgo/Reynosa Bridge Management System
- *Lower RGV Regional Traffic Information Network
- Mexico DOT (SCT)
- *Pharr/Reynosa Bridge Management System
- *Private International Bridge Management Systems
- *TxDOT Pharr District TMC
- US Border Patrol Video Surveillance System

Toll Administration Subsystem

- City of Pharr and B/M Bridge Electronic Toll Collection System
- *Lower RGV Bridge Toll Collection Systems

Information Service Provider Subsystem

- BUS Transit Web Site
- Lower RGV Development Council Transit Web Site
- *Major Employers/Academic Institutions Ride Sharing Web Site
- *Private Sector Traveler Information Services
- Rainbow Lines Transit Web Site
- The Wave Transit Web Site
- *TxDOT 511 System
- TxDOT Motor Carrier Routing Information System
- TxDOT Pharr HCRS (Highway Conditions Reporting System)
- TxDOT Pharr District Web Page

Transit Management Subsystem

- BUS Transit Dispatch
- *BUS Transit Electronic Fare Collection System
- Independent School District Dispatch
- Lower RGV Development Council Transit Dispatch
- Private Transit Systems
- *Rainbow Lines Transit Dispatch
- *The Wave Transit Dispatch

Emergency Management Subsystem

- Airport Public Safety
- City/County EOC
- City/County Police and Fire Dispatch
- DPS Administration
- DPS Communications Dispatch
- IBWC Rio Grande River Flood Monitoring Sys
- *Lower RGV Incident and Mutual Aid Network
- Mexico Emergency Management Systems
- Port of Brownsville
- Public/Private EMS Dispatch
- State EOC
- *TxDOT Courtesy Patrol Dispatch
- US Border Patrol Dispatch
- US Coast Guard Causeway Management Sys
- US Customs

Commercial Vehicle Administration

- TxDOT Credentials Administration and Safety Information Exchange

Fleet and Freight Management Subsystem

- Commercial Vehicle Operator Systems

Archived Data User Systems

- *BUS Transit Planning System Users
- *Cameron County Congestion Management System Users
- *Hidalgo County Archived Data System Users
- *Lower RGV Development Council Transit Planning System Users
- *Lower RGV MPO Transportation Data Archival System Users
- *Rainbow Lines Transit Planning System Users
- *The Wave Transit Planning System Users
- *TxDOT/DPS Crash Record Information System Users
- *TxDOT Pharr District Pavement Management System Users
- *TxDOT Pharr District Transportation Operational Data Archive System Users
- *TxDOT/International Bridges Corridor System Users

Asset Management

- TxDOT BRINSAP - Bridge Inventory Inspection System

Care Facility

- Regional Hospitals

Emergency Telecommunications Systems

- Telco 911 Call Routing

Enforcement Agency

- DPS License and Weights Division
- US Customs
- US DOT Inspections

Equipment Repair Facility

- County Road and Bridge Equipment Repair
- Municipal Public Works Department Equipment Repair
- TxDOT District Shop

Event Promoters

- Tourism and Event Information Systems

Financial Institution

- Financial Institution

Media

- Print and Broadcast Media

Private Freight Shipper

- Private Freight Shippers

Rail Operations

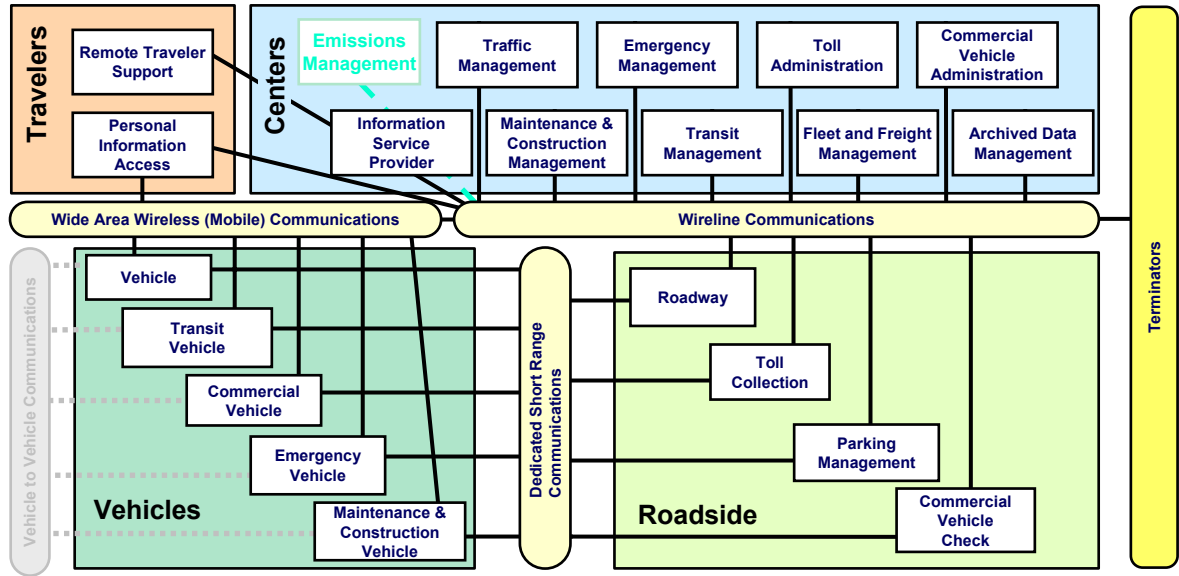
- Rail Operators

Storage Facility

- County Road and Bridge Maintenance Yard
- Municipal Public Works Department Maintenance Yard
- TxDOT Pharr District Maintenance Section Yard

Traveler Card

- Lower RGV Trade Tag
- *Lower RGV Transit Fare Card



Lower Rio Grande Valley, TX

Regional ITS Architecture

"Sausage Diagram"

* Elements are planned or future, not existing.

Parking Management Subsystem

- *City and Community Parking Management Systems

Toll Collection Subsystem

- City of Pharr and B/M Bridge ETC Equipment
- *Lower RGV Bridge ETC Equipment

Roadway Subsystem

- *Brownsville MPO Field Equipment
- *Cameron County International Bridge Field Equipment
- *Cameron County Traffic Data Collection System
- City of Brownsville Field Equipment
- City of Harlingen Field Equipment
- City of McAllen Field Equipment
- City of Pharr Field Equipment
- *County Road and Bridge Field Equipment
- *Hidalgo County Field Equipment

Roadway Subsystem

- *Hidalgo County Pavement Data Collection System
- Hidalgo County Traffic Data Collection Sys
- *Hidalgo/Reynosa Bridge Field Equipment
- Municipal Public Works Department Field Equipment
- *Pharr/Reynosa Bridge Field Equipment
- *Private International Bridge Field Equipment
- *TxDOT Pharr District Bridge Corridor Sys
- *TxDOT Pharr District CCTV

Roadway Subsystem

- *TxDOT Pharr District DMS
- TxDOT Pharr District Field Sensors
- *TxDOT Pharr District Flood Monitoring Sys
- *TxDOT Pharr District HAR
- *TxDOT Pharr District Lane Control Signals
- TxDOT Pharr District Pavement Data Collection System
- TxDOT Pharr District Traffic Signals
- *TxDOT Pharr District Work Zone Equipment
- US Border Patrol Field Equipment

Commercial Vehicle Check

- DPS Electronic Screening Stations
- TxDOT Weigh-in-Motion Sites
- TxDOT/BND Overweight Corridor System

Wayside Equipment

- Rail Operators Wayside Equipment

Weather Service

- National Weather Service