

ITS Inventory

<i>ITS Element</i>	<i>Description</i>
Archive Data User Systems	Agencies and systems that use archived data
Buckeye Traffic Website	Represents ODOT's website that provides transportation information.
CARTS Transit Operations	CARTS Transit Operations provide demand response transit to Columbiana County with connections to other regional transit systems.
City of Niles Emergency Vehicles	Represents the ITS equipment (e.g. mobile data terminals) in police, fire, and EMS vehicles owned and operated by City of Niles.
City of Niles Field Equipment	City of Niles field equipment includes traffic signals (including emergency preemption) and loop detectors.
City of Niles Maintenance Dispatch	Each department maintains their own vehicles and does their own traffic control.
City of Niles Maintenance Vehicles	Includes snow plows and other roadway maintenance vehicles operated by the City of Niles.
City of Niles Public Safety Dispatch	Represents the dispatch center for police, fire, and EMS serving the City of Niles
City of Niles Traffic Signal System	Traffic Operations for the City of Niles
City of Niles Website	http://www.cityofniles.com/pages/1/index.htm
City of Warren Emergency Vehicles	Represents the ITS equipment (e.g. mobile data terminals) in the police, fire, and EMS vehicles owned and operated by City of Warren
City of Warren Field Equipment	City of Warren field equipment includes traffic signals (including emergency preemption), loop detectors
City of Warren Maintenance Dispatch	Dispatch of maintenance vehicles for the City of Warren.
City of Warren Maintenance Vehicles	Includes snow plows and other roadway maintenance vehicles operated by the City of Warren.
City of Warren Public Safety Dispatch	Represents the dispatch center for police, fire, and EMS serving the City of Warren
City of Warren Traffic Signal System	Traffic Operations for City of Warren.
City of Warren Website	http://www.warren.org/
City of Youngstown Emergency Vehicles	Represents the ITS equipment (e.g. mobile data terminals) in the City of Youngstown police, fire, and EMS vehicles.
City of Youngstown Field Equipment	City of Youngstown field equipment includes traffic signals, loop detectors, and dynamic message signs.
City of Youngstown Maintenance Dispatch	Dispatch of maintenance vehicles for roadway and equipment maintenance.
City of Youngstown Maintenance Vehicles	Includes snow plows and other roadway maintenance vehicles operated by the City of Youngstown. City has 17 snow plows that operate on fixed routes.
City of Youngstown Public Safety Dispatch	Represents the dispatch centers for police, fire, and EMS serving the City of Youngstown
City of Youngstown Traffic Signal System	Traffic Operations for City of Youngstown
City of Youngstown Website	City of Youngstown website.
Commercial Vehicles	Commercial vehicles that interact with the transportation elements for weight in motion and Hazmat reporting.
County Emergency Vehicles	Sheriff vehicles for counties in the region - Mahoning and Trumbull.
Crash Records Database Users	Agencies and systems that access crash record databases
CV/Truck Traveler Information System	Future traveler information system providing traffic information, including future real-time information, for commercial vehicles.
Eastgate Regional Data Archive	Archive of transportation information for the region.
Financial Institutions	Systems of financial companies involved in electronic payment transactions.
Fleet and Freight Management	Commercial fleet owners dispatch functions and interfaces to government agencies.

ITS Element	Description
Mahoning County 9-1-1 Center	Mahoning County has seven 911 call taking and dispatch centers. They are located in Youngstown, Austintown, Canfield, Sebring, Boardman, Beaver, and at the County. Centers are transitioning to CAD.
Mahoning County Emergency Management	AMBER Alert Authority for Mahoning County. Center includes 90 phone lines, crisis rooms for meetings. Direct link to radio stations to distribute information.
Mahoning County Field Equipment	3 RWIS units (owned/maintained by ODOT, but connected to Mahoning County) installed in 2003 (Western Reserve/South, Mahoning/Bailey, and Snow in Smith Township). Will also have movable cameras and traffic counting devices installed. County owns 4 mobile message boards (2 large and 2 small). Message boards are programmable via cell phone and are used for special events, construction, and major incidents. Would like to see permanent message boards on the west and east end of I-80 and I-76 to alert traffic of any incidents in Youngstown.
Mahoning County Maintenance Dispatch	Vehicles are dispatched from the 3 district garages. The main garage is at the County Engineer's building. All vehicles communicate with the garages by 2-way radios.
Mahoning County Maintenance Vehicles	86 on-road vehicles and 41 off-road vehicles for maintenance and snow removal. Vehicles communicate with the garage via 2-way radio. Vehicles gas up at the Sanitary Department pumps where they input their mileage before fueling. All vehicles receive service in main garage every 3000-5000 miles when called in by mechanics. GIS capability planned for trucks.
Mahoning County Signal Control System	Mahoning County maintains 42 signals. 20 in Boardman, 17 in Austintown, 2 in Smith Township, and 3 in Jackson Township. 32 are part of closed loop systems. 2 have emergency vehicle preemption (Boardman and Austintown), more emergency preemption is planned. 3 sites where signals are within 200' of RR crossing (South, Southern, SR 224) but only 1 or 2 trains per day (garbage trains - suppose to run at night).
Mahoning County Website	http://www.mahoningcountygov.com/
National Weather Service	Publicly provided weather information- NWS, Accuweather, etc.
New Castle Transit Dispatch	Fixed route transit system operating in Lawrence County Pa.
NiTTTS Demand Response Dispatch	Dispatch function of new Niles-Trumbull Transit System.
NiTTTS Demand Response Vehicles	Niles-Trumbull (NiTTTS) Vehicles, currently provided by Community Busing Service.
NiTTTS Website	Website containing transit schedules for the NiTTTS transit system.
ODOT Central Office	Central statewide traffic operations center for ODOT. Manages the BuckEyeTraffic.org website. For redundancy, able to remotely operate district traffic management centers.
ODOT Connected Vehicles Roadside Equipment	This element represents the roadside equipment that provides vehicle-to-infrastructure communications. This data communication is used for data collection from Connected Vehicle-equipped vehicles and to provide information to Connected Vehicle-equipped vehicles.
ODOT District 11 Maintenance Garages	Represents the dispatch function of the maintenance garages in District 11, which borders the region.
ODOT District 11 Office	Responsible for traffic and maintenance for District 11, which includes Columbiana County and other counties that adjoin the region.
ODOT District 12 Maintenance Garages	Dispatch function for ODOT roadway and equipment maintenance vehicles. These garages are county based. Provide roadway and equipment maintenance for ODOT assets in the district.
ODOT District 4 Field Equipment	Road weather information system, Portable DMS, ODOT signals, Automatic Traffic Recorder (ATR) stations which include Weigh In Motion (WIM), HAR planned.
ODOT District 4 Maintenance Garages	County based garages responsible for roadway and equipment maintenance.
ODOT District 4 Maintenance Vehicles	District maintenance vehicles, including snow plows. District is considering GPS units for tracking
ODOT District 4 Office	Primary traffic management point for ODOT managed roads in District 4.
ODOT District 4 Outposts	ODOT Storage facilities
ODOT District 4 Signal Control System	329 signals maintained by District 4. 71 are in Trumbull County and 77 are in Mahoning County.
ODOT Freeway Service Patrol Vehicles	Freeway Service patrols.

ITS Element	Description
ODOT Infrastructure Monitoring Equipment	Real-time stress monitoring Sensors that monitor the infrastructure and the communications necessary to report this data to a center or vehicle-based maintenance system.
ODOT Regional Traffic Operations Center	Represents the major regional Traffic Operations Center that manages the ODOT field equipment in the region.
ODOT Rest Area Traveler Information Centers	Represents traveler interface equipment at ODOT rest areas.
ODOT Rest Areas/Truck Stops	Parking management system at rest areas and truck stops to measure parking availability.
Ohio Commercial Vehicle Administrative Systems	Safety records, administrative functions for CVO.
Ohio DPS Crash Records Database	State Highway Patrol collects information and sends to this DB
Ohio State Highway Patrol District 10	OSHP post for the Ohio Turnpike.
Ohio State Highway Patrol Posts	One in Trumbull County. One in Mahoning County. Each operates the 911 cell call center for their respective county.
Ohio Statewide EOC	State Emergency Operations Center. Located in Columbus
OSHP Motor Carrier Enforcement Unit	Enforcement of commercial vehicles.
OSHP Vehicles	ITS equipment in OSHP Vehicles.
OSHP Weigh-In-Motion Stations	OSHP operates fixed and mobile stations.
OTC Central Dispatch	Dispatch maintenance and incident management (private tow/wreckers, local/municipal fire/EMS). (Collocated with Highway Patrol). Dispatch contractors for construction and sometimes maintenance.
OTC E-ZPass Tag	Vehicle transponder or smart card used for electronic payment of toll and other.
OTC Toll Administration	Toll administration offices for the electronic toll collection. Reconciliation center.
OTC Toll Collection Equipment	Electronic toll collection roadway equipment. E.g., tag readers, toll booth equipment, lane curtains, etc.
OTC Website	Website containing traveler information for OTC, including toll information and road maintenance.
Other County Maintenance Garages	Represents county maintenance garages and dispatch in the counties that border the region (Ashtabula, Columbiana, Lake, Portage, Stark, Mercer, and Lawrence).
Other County Public Safety	Represents County sheriff and county PSAPs for counties bordering on the region (Ashtabula, Columbiana, Lake, Portage and Stark in Ohio and Lawrence and Mercer in Pennsylvania).
Other County Traffic Engineering	Traffic engineering departments and traffic signal systems for counties bordering the region (Ashtabula, Columbiana, Lake, Portage, Stark, Mercer, and Lawrence).
Other Municipality or Township Emergency Vehicles	Emergency vehicles, support signal preemption, include ITS equipment that provides the sensory, processing, storage, and communications functions necessary to support safe and efficient emergency response.
Other Municipality or Township EOC	Represents EOCs at the municipal level.
Other Municipality or Township Field Equipment	This includes the signal controllers, cameras, and signal preemption equipment for each municipality. Also includes roadside equipment that helps blind people cross streets (pushbutton has beeper, closed loop systems, audible voice indicating road is clear to cross).
Other Municipality or Township Maintenance Garages	This element represents the dispatch function for roadway and equipment maintenance at the municipal level and for those counties not explicitly broken out with separate elements.
Other Municipality or Township Maintenance Vehicles	Represents the snow plows and other maintenance vehicles that are owned and operated by municipalities in both Mahoning and Trumbull Counties.
Other Municipality or Township Public Safety Dispatch	This element represents the police, fire, and EMS emergency dispatch functions at the municipal level. This general element also represents each of the community public safety answering points in the region. The major municipalities and townships covered by this include for Mahoning County: Boardman township, Austintown township, Poland township, and Struthers city; and for Trumbull County: Howland township, Liberty township, Girard city, and Brookfield township.

ITS Element	Description
Other Municipality or Township Security Cameras	Represents CCTV used for security purposes, for example at bridges.
Other Municipality or Township Security Sensors	Represents municipal security sensors such as fire sensors.
Other Municipality or Township Traffic Signal Systems	This element represents the traffic signal systems of municipalities, townships (and villages) in the region.
Other Municipality or Township Website	Website for municipalities, containing information such as construction projects and traveler information.
Paratransit Service Vehicles	Represents vehicles of numerous small public and private paratransit systems in the region.
Paratransit Services Dispatch	Private and public transit systems that provide service to elderly, disabled riders and other eligible clients.
PARTA Transit Operations	PARTA Transit Operations provide fixed route service to Portage County with connections to other regional transit systems.
Penn DOT District 1	Represents traffic and maintenance operations of Penn DOT District 1.
Penn DOT District 11	Represents traffic and maintenance operations of Penn DOT District 11.
Pennsylvania State Police Troop D	Penn State Police Troop operating in Mercer and Lawrence Counties.
Private Ambulance Dispatch	Vehicle dispatch function of private ambulance companies in the region.
Private Information Service Providers Systems	This represents the systems of private companies that provide traveler information. An example would be Google Transit that provides transit information.
Private Maintenance Contractor Dispatch	Dispatch function for private maintenance contractors who provide equipment maintenance.
Private Towing Dispatch	Dispatch function for private tow/ wrecker companies in the region.
Private Weather Service Systems	Systems that provide customized transportation weather forecasts or road weather information.
Railroad Operations Center	Source of information for train crossing times/durations for coordination to reroute vehicles (passenger, commercial, transit, emergency) around RR tracks. CSX, Norfolk Southern & Lake Erie railroads are in the region.
Railroad Wayside Equipment	Active highway/rail interfaces (flashing lights and gates when train is detected)
Regional Event Operations	Venues that have events affecting traffic in the region. E.g. Youngstown State University.
Regional Hospital Trauma Centers	Hospitals and trauma centers in the region.
SARTA Transit Operations	SARTA Transit Operations provide fixed route service to Stark County with connections to other regional transit systems.
School Buses	School buses operated by area school districts
School District Dispatch	Dispatching systems for school districts' buses
Shenango Valley Shuttle Service Dispatch	Fixed Route transit service serving Mercer County Pa, with connections into Ohio.
Social Networking Sites	Represents social networking sites that can be used as a venue for distribution of traveler information. Includes Google Transit.
Special Police Dispatch	Dispatch of public safety for special jurisdictions. E.g. Youngstown State University, park police, hospital police.
Special Police Vehicles	Police vehicles operated by Special Police forces
TCAP Community Action Transportation System (CATS)	Fixed route transit system in the City of Warren and paratransit for Trumbull County.
Transit Reciprocity Network	The reconciliation service that allows the exchange of information and payments between agencies that are affiliated with the regional smart electronic payment card. Reciprocity among the participating agencies allows regional smart card users to maintain an account with one agency while using the facilities of all the agencies. Reimbursements will be handled between the agencies involved, making the transaction transparent to the customer.
Traveler Information Device	Personal devices used by the traveling public. Includes PCs, pagers, etc.

ITS Element	Description
Traveler Vehicles	Represents the ITS equipment inside private vehicles
Trumbull County 9-1-1 Center	911 landline call and dispatch centers. (For Police, Sheriff, Fire and EMS.)
Trumbull County Emergency Management Center	EOC for Trumbull County
Trumbull County Emergency Management Website	http://www.homelandsecurity.co.trumbull.oh.us/index.htm
Trumbull County Field Equipment	Includes traffic signals, which are not currently centrally connected. County has 8 portable message signs on trailers (4 large, 4 small) used mainly for construction. Possible video surveillance in the future for incident management.
Trumbull County Maintenance Dispatch	One main garage at County Engineer's building and one other in Cortland. Maintenance crews split between the 2 garages. Keep records of mileage and date of maintenance and driver must bring vehicle in for service. 23 salt runs and 25 plow runs performed by the county - supervisor must check roads in person and determine if plowing/salting is necessary, if so, drivers are paged to come in.
Trumbull County Maintenance Vehicles	Trumbull County has ~40-45 maintenance trucks, ~30 can be used for snow removal. Vehicles communicate with the garage via 2-way radio and cell phones. May have portable hand-held GPS units in the future.
Trumbull County Signal Control System	Most signals are not coordinated. There is time-based coordination along Larchmont. County contracts out maintenance of signals. There is no traffic engineer on staff.
Trumbull County Website	Planned for late 2003. Major road maintenance notifications will be posted there.
TV and Radio Stations	Local TV (e.g. WFMJ), radio, and newspapers.
Warren-Youngstown Regional Incident and Mutual Aid Network	Regional public safety communications network.
WRTA Administration Office	Houses dispatch center and link to AVL information. Buses are stored here and maintenance activities and fueling occurs at this location. Future link to live security camera feeds.
WRTA Automated Maintenance Scheduling System	All data is now downloaded to laptops at the base with Dadac (motor) and Altec (trans). Automatic download is planned for 2005. Also, en-route alert monitoring is planned. Want hubometer reader installed at the base. Have automatic detection for fuel leaks.
WRTA Downtown Passenger Terminal	Represents information signs or kiosks at the terminal.
WRTA EasyGo Dispatch	Dispatch function for Easy Go Demand Response transit system.
WRTA EasyGo Vehicles	ITS elements in Easy Go vehicles.
WRTA Fixed Route Dispatch	Dispatch of WRTA fixed route vehicles.
WRTA Fixed Route Vehicles	Operate 26 routes, 6 days per week. 19 routes are standard and 7 are every routes which operate between 7:15 PM and midnight. AVL on the 41 fixed route buses. Manager can access information from home.
WRTA Security	WRTA contracts with a security company to provide security at their administration office. The element represents the security systems and personnel at the Administration office that monitor security equipment and provide interface to other public safety agencies. Some of the security equipment includes cameras at Federal Station. Work is underway to link the two security systems so there is a live feed to the Administration Office. All buses are equipped with panic buttons which trigger a "please call 911" sign on outside of the bus. Plan for en-route alert monitoring for vehicles.
WRTA Security Equipment	CCTV and traveler activated alarms.
WRTA Smart Card	Planned Electronic Fare Media
WRTA Special Service Transportation (SST) Dispatch	WRTA paratransit service.
WRTA Special Service Transportation (SST) Vehicles	It is used to supplement the fixed route service by providing public transit for individuals with disabilities and/or senior citizens. The SST service area encompasses all areas 3/4 miles or less from the existing fixed route service line. Service is curb to curb. Initiated in 1978.
WRTA Website	http://wrtaonline.com/ Website has general information and route detour information. Existing route information and real-time bus schedules are not online.
YACAC Dial-A-Ride	Demand response transit system operated by YACAC.

<i>ITS Element</i>	<i>Description</i>
Youngstown Region Inland Port	Inland port possibly near the junction of I76/80 for screening of commercial vehicles. Possibly FAST screening and/or security seal checks
Youngstown State Transportation Archive	This element represents a future capability to collect regional transportation data to be used as part of transportation research.
Youngstown-Warren Air Reserve Station	The Youngstown-Warren Air Reserve Station, located at the Youngstown-Warren Regional Airport, is the home of the 910th Airlift Wing, an Air Force Reserve Command.
Youngstown-Warren Regional Airport	Regional Airport with limited commercial and private services.