

## ITS RELATED PROJECTS IN OREGON

*Last updated: July 2007*

<b>607-1</b>	<b>Project Name and Major Application:</b>	82 <sup>nd</sup> Avenue Corridor Management
	<b>Project Location:</b>	82 <sup>nd</sup> Avenue from Portland International Airport to Clackamas County
	<b>Project Summary:</b>	13 cameras, 2 new detection locations (plus 2 existing), and fiber have been installed in the City of Portland component of this joint project with ODOT and Clackamas County. Incident Management Operational Manual has been developed. Fiber installation is aerial.
	<b>Anticipated Benefits:</b>	In combination with ODOT work, this implementation will enable operation of I-205 and 82 <sup>nd</sup> avenue as an integrated corridor in the event of a significant closure on either facility, resulting in lessened delay and congestion.
	<b>Project Status:</b>	Project Currently in Operation
	<b>Jurisdiction:</b>	City of Portland
	<b>Contact:</b>	Jon Makler (jmakler at pdxtrans.org)
	<b>Other comments:</b>	Project was completed in spring 2007. Total project cost of approximately \$700,000 primarily from federal funding through MTIP. Aerial fiber installation significantly reduced costs. Northern terminus is Killingsworth but the project also added a camera at Airport Way. New signal timing plans entailed minor changes.
<b>607-2</b>	<b>Project Name:</b>	Signal System Central Software Upgrade
	<b>Project Status:</b>	Project Currently in Under Development
	<b>Project Location:</b>	Citywide
	<b>Project Summary:</b>	A multi-year collaborative effort to install new central software for the signal system, including new communications infrastructure. Other jurisdictions are utilizing the software for their independent systems.
	<b>Anticipated Benefits:</b>	New software offers a variety of improvements in signal system operation, including centralized control, leading to reduced delay, improved safety.
	<b>Jurisdiction:</b>	City of Portland
	<b>Contact:</b>	Jon Makler (jmakler at pdxtrans.org)
	<b>Other comments:</b>	Project began in 2001 with a regional collaboration to evaluate options and solicit bids. Through an ODOT contract under PDOT management the design work began in 2004. Initial \$750,000 budget (from MTIP) was supplemented by approximately \$400,000 from the City of Portland.

607-3	<b>Project Name:</b>	Truck Initiatives
	<b>Project Location:</b>	Various, including Columbia Boulevard and Yeon Avenue
	<b>Project Summary:</b>	On Columbia, the installation of truck priority at Macrum plus linking to the nearby signal at Portland Road and upgrades at MLK. On Yeon, signal system improvements at five intersections, including radar devices for managing indecision zone issues.
	<b>Anticipated Benefits:</b>	Reduced red-light running by trucks resulting in improved safety and improved level of service for movement of freight.
	<b>Project Status:</b>	Project currently in operation and partially under development; 3 work orders remain with ultimate completion anticipated before 2011. Procurement is underway for projects on Yeon Avenue.
	<b>Jurisdiction:</b>	City of Portland
	<b>Contact:</b>	Jon Makler (jmakler at pdxtrans.org)
	<b>Other comments:</b>	\$225,000 approximate budget.
	<b>Submittal Date:</b>	May-07
607-4	<b>Project Name:</b>	Burnt River Canyon Freight Improvement Section
	<b>Project Location:</b>	Interstate 84 from mile point 326.6 to mile point 347.85
	<b>Project Summary:</b>	Three variable message signs, two road and weather information stations and four advance curve warning systems.
	<b>Anticipated Benefits:</b>	The three variable message signs will provide traveler information including weather conditions, chain requirements and road conditions in the field to the traveling public. The two weather stations will assist with weather monitoring throughout the corridor and will provide traveler information over the state's website "tripcheck.com". The four advance curve warning systems are to reduce the number and severity of accidents by indicating the speed of vehicles approaching curves in the corridor.
	<b>Project Status:</b>	In design with project design complete fall 2007.
	<b>Jurisdiction:</b>	Oregon Department of Transportation
	<b>Contact:</b>	Edward L. Anderson (edward.l.anderson@odot.state.or.us)
	<b>Other comments:</b>	The ITS components listed above are part of a larger project to realign two curves in the Burnt River corridor.
	<b>Submittal Date:</b>	May-07

607-5	<b>Project Name:</b>	I-5: North Albany VMS and Camera
	<b>Project Location:</b>	Interstate 5 at mile point 236.8, northbound.
	<b>Project Status:</b>	Under construction with the variable message sign and the traffic cameras operational fall 2007.
	<b>Project Summary:</b>	The project consists of installing a variable message sign and traffic monitoring camera along Interstate 5 north of Albany.
	<b>Anticipated Benefits:</b>	The variable message sign will provide road and traffic condition information for northbound Interstate 5 travelers. The camera will provide ODOT's Region 2 Northwest Traffic Operations Center still images of traffic conditions.
	<b>Jurisdiction:</b>	Oregon Department of Transportation
	<b>Contact:</b>	Edward L. Anderson (edward.l.anderson@odot.state.or.us)
	<b>Other comments:</b>	Future communication projects in the area will allow the camera being constructed under this project to have streaming video with pan/tilt/zoom capabilities.
	<b>Submittal Date:</b>	May-07
607-6	<b>Project Name:</b>	I-5: North Santiam Highway – Kuebler Boulevard Section
	<b>Project Location:</b>	Interstate 5 from mile point 255.0 to mile point 251.2
	<b>Project Summary:</b>	The project consists of installing fiber optic cable and two traffic monitoring cameras along Interstate 5 near Salem. The project also includes connecting this fiber optic cable into ODOT's Region 2 Northwest Traffic Operations Center.
	<b>Anticipated Benefits:</b>	Both traffic cameras will have streaming video and pan/tilt/zoom capabilities.
	<b>Project Status:</b>	Project is currently under construction with traffic cameras operational by fall 2007.
	<b>Jurisdiction:</b>	Oregon Department of Transportation
	<b>Contact:</b>	Edward L. Anderson (edward.l.anderson@odot.state.or.us)
	<b>Other comments:</b>	The ITS components installed in this project are part of a larger project to add additional traffic lanes to I-5.
	<b>Submittal Date:</b>	May-07

607-7	<b>Project Name:</b>	I-5: South Medford Interchange
	<b>Project Location:</b>	Interstate 5 from mile point 28.33 to mile point 26.73
	<b>Project Status:</b>	Project is currently under construction.
	<b>Project Summary:</b>	The project consists of installing a traffic monitoring camera at the new interchange between Interstate 5 and Garfield Street. The project also includes connecting the camera into the City of Medford's and ODOT's fiber optic ring. The camera image will be sent to ODOT's Region 3 Traffic Operations Center in Central Point.
	<b>Jurisdiction:</b>	Oregon Department of Transportation
	<b>Contact:</b>	Edward L. Anderson (edward.l.anderson@odot.state.or.us)
	<b>Anticipated Benefits:</b>	The traffic camera being constructed under this project will have streaming video and pan/tilt/zoom capabilities.
	<b>Other comments:</b>	The ITS components installed in this project are part of a larger project constructing a new interchange on I-5 in Medford. Anticipate the traffic cameras being operational in fall of summer of 2008.
	<b>Submittal Date:</b>	May 2007
607-8	<b>Project Name:</b>	Region 2 Traffic Camera project
	<b>Project Location:</b>	Various locations in the Eugene/Springfield Metropolitan Area.
	<b>Project Status:</b>	In design.
	<b>Project Summary:</b>	The project consists of installing 6-8 traffic monitoring cameras in the Eugene/Springfield Metro. Area.
	<b>Anticipated Benefits:</b>	Cameras will provide freeway surveillance for freeway movement and incident management. Still images of traffic conditions will be provided to ODOT's Region 2 Northwest Traffic Operations Center in Salem.
	<b>Jurisdiction:</b>	Oregon Department of Transportation
	<b>Contact:</b>	Edward L. Anderson (edward.l.anderson@odot.state.or.us)
	<b>Other comments:</b>	Future communication projects in the area will allow the cameras being constructed under this project to have streaming video with pan/tilt/zoom capabilities. Design to be completed fall 2008.
	<b>Submittal Date:</b>	May-07

607-9	<b>Project Name:</b>	Region 2 Variable Message Signs
	<b>Project Location:</b>	Interstate 5 at mile point 186.86, northbound, Interstate 5 at mile point 190.92, southbound, Beltline Highway at mile point 7.66 eastbound and Santiam Highway at mile point 31.27 eastbound.
	<b>Project Summary:</b>	The three variable message signs along I-5 and the Beltline Highway will provide traveler information in the field of current road conditions in the Willamette Valley. The variable message sign on the Santiam Highway will provide pass traffic conditions for eastbound travelers. Traffic monitoring cameras will also be constructed at the three Eugene/Springfield Metropolitan Area locations.
	<b>Anticipated Benefits:</b>	The Santiam Highway sign will replace a temporary sign. In the event a driver strikes the sign, the new design provides protection to the driver and sign.
	<b>Project Status:</b>	Under construction with signs and cameras operational fall 2007.
	<b>Jurisdiction:</b>	Oregon Department of Transportation
	<b>Contact:</b>	Edward L. Anderson (edward.l.anderson@odot.state.or.us)
	<b>Other comments:</b>	Future communication projects in the Eugene/Springfield Metropolitan Area will allow the cameras being constructed under this project to have streaming video with pan/tilt/zoom capabilities.
	<b>Submittal Date:</b>	May-07
607-10	<b>Project Name:</b>	Region 2 Variable Message Signs, 2007
	<b>Project Location:</b>	North Santiam Highway at mile point 48.86, eastbound and McKenzie Highway at mile point 47.14, eastbound
	<b>Project Summary:</b>	The two variable message signs will provide eastbound travelers pass conditions on the North Santiam and McKenzie Highways.
	<b>Anticipated Benefits:</b>	Project will replace two temporary signs. In the event a driver strikes the sign, the new design provides protection to the driver and sign.
	<b>Project Status:</b>	Project design is complete. Anticipate a June 2007 bid opening.
	<b>Jurisdiction:</b>	Oregon Department of Transportation
	<b>Contact:</b>	Edward L. Anderson (edward.l.anderson@odot.state.or.us)
	<b>Other comments:</b>	
	<b>Submittal Date:</b>	May-07

607-11	<b>Project Name:</b>	US 97: China Hat Rd. – Baker Rd./Lava Butte Section
	<b>Project Location:</b>	US 97 from mile point 141.00 to mile point 146.49
	<b>Project Summary:</b>	Variable message sign installation along US 97 south of Bend.
	<b>Anticipated Benefits:</b>	To provide traveling public timely notice of changing road conditions such as closures on The Dallas-California Highway for Northbound traffic and for the highways connecting to it.
	<b>Project Status:</b>	Project is currently under construction with anticipation signs will be operational winter 2007.
	<b>Jurisdiction:</b>	Oregon Department of Transportation
	<b>Contact:</b>	Edward L. Anderson (edward.l.anderson@odot.state.or.us)
	<b>Other comments:</b>	The ITS components listed above are part of a larger project to pave, install guardrail, striping and permanent signing on US 97.
	<b>Submittal Date:</b>	May-07
607-12	<b>Project Name:</b>	US 97: Madras NB and OR 138 Jct. NB Variable Message Signs
	<b>Project Location:</b>	US 97 at mile point 97.18 northbound and mile point 214.11, northbound.
	<b>Project Summary:</b>	Project consists of two variable message signs along US 97.
	<b>Anticipated Benefits:</b>	The two variable message signs will improve the overall performance of the highways by providing timely notice of changing conditions. The signs will better inform the traveling public of road conditions and closures for The Dallas-California Highway for northbound traffic and for the highways connecting to it.
	<b>Project Status:</b>	Under construction.
	<b>Jurisdiction:</b>	Oregon Department of Transportation
	<b>Contact:</b>	Edward L. Anderson (edward.l.anderson@odot.state.or.us)
	<b>Other comments:</b>	These two signs will be the first signs delivered under the state's price agreement contract. Anticipate the signs being operational in summer of 2007.
	<b>Submittal Date:</b>	May-07
607-13	<b>Project Name:</b>	US 97: N. Chiloquin SB and S. Klamath Falls NB VMS
	<b>Project Location:</b>	US 97 at mile point 245.4, southbound and mile point 278.8, northbound
	<b>Project Summary:</b>	Two variable message signs along US 97.
	<b>Anticipated Benefits:</b>	Traveler information in area of highway construction activities.
	<b>Project Status:</b>	In design with operational anticipated for summer 2008.
	<b>Jurisdiction:</b>	Oregon Department of Transportation
	<b>Contact:</b>	Edward L. Anderson (edward.l.anderson@odot.state.or.us)
	<b>Other comments:</b>	
<b>Submittal Date:</b>	May-07	

607-14	<b>Project Name:</b>	Region 5 2007 ITS Projects
	<b>Project Location:</b>	Various locations of Interstate 84 around La Grande, Oregon.
	<b>Project Summary:</b>	The project consists installing a traffic gate at both on ramps to Interstate 84 at the intersection of the La Grande - Baker Highway and Interstate 84 (mile point 265 of Interstate 84). The project also includes a highway advisory radio (HAR) transmitter and three HAR signs.
	<b>Anticipated Benefits:</b>	The two traffic gates will be controlled remotely from both the Region 5 Traffic Operations Center and maintenance vehicles. The remote operation will allow operation and maintenance personnel to focus their attention and energy to clearing the interstate instead of manning the on ramps when the Interstate closes. The HAR system will provide traveler information of road conditions in the La Grande area.
	<b>Project Status:</b>	Under construction. Anticipate systems being operational summer 2007.
	<b>Jurisdiction:</b>	Oregon Department of Transportation
	<b>Contact:</b>	Edward L. Anderson (edward.l.anderson@odot.state.or.us)
	<b>Other comments:</b>	The operation of the traffic gates will be monitored using cameras.
	<b>Submittal Date:</b>	May-07
607-15	<b>Project Name:</b>	Transit Tracker
	<b>Project Location:</b>	Regional: Portland metropolitan area
	<b>Project Summary:</b>	Iterative changes are underway to improve service quality during disruptions, such as snow storms.
	<b>Anticipated Benefits:</b>	Increased ridership, increased rider satisfaction, reduced costs, etc.
	<b>Project Status:</b>	Ongoing
	<b>Jurisdiction:</b>	TriMet
	<b>Contact:</b>	Ken Turner
	<b>Other comments:</b>	Call volume has reached 700,000 per month and emphasis continues to be placed on web and phone instead of on-site message signs.
<b>Submittal Date:</b>	May-07	
607-16	<b>Project Name:</b>	Automated Transit Stop Announcement
	<b>Project Location:</b>	Bus Fleet
	<b>Project Summary:</b>	Introducing internal and external stop announcements
	<b>Anticipated Benefits:</b>	Assistance primarily for sight-impaired riders
	<b>Project Status:</b>	Under development
	<b>Other comments:</b>	External announcements are now active on the newer, low-floor buses (300 out of 600 buses in fleet). Several minor steps remain before activating the internal stop announcements ("next stop")
	<b>Jurisdiction:</b>	TriMet
	<b>Contact:</b>	Ken Turner
<b>Submittal Date:</b>	May-07	

607-17	<b>Project Name:</b>	Mobile Computing Devices for Transit Operation
	<b>Project Location:</b>	Regional: Portland metropolitan area
	<b>Project Summary:</b>	Finding and procuring new equipment for field personnel.
	<b>Anticipated Benefits:</b>	The first objective is to enable field personnel to have full access to real-time operational data. The second objective is to use GPS on the devices to enable dispatch personnel to track field personnel.
	<b>Jurisdiction:</b>	TriMet
	<b>Contact:</b>	Ken Turner
	<b>Project Status:</b>	Under development
	<b>Other comments:</b>	Expected completion is January 2009.
	<b>Submittal Date:</b>	May-07
607-18	<b>Project Name:</b>	Trimet BDS/Communications Replacement
	<b>Project Location:</b>	Regional: Portland Metropolitan area
	<b>Project Summary:</b>	An initial study has been completed confirming need for replacement of the BDS and the communications system. A mandate exists to be off the existing radio system by 2012, which is driving this process. Based on the initial study, TriMet is building its own communications system instead of relying on the City of Portland's 900 Mhz system.
	<b>Anticipated Benefits:</b>	BDS and communications are fundamental to many other service-oriented deployments, including traveler information and dispatching.
	<b>Jurisdiction:</b>	TriMet
	<b>Contact:</b>	Ken Turner
	<b>Project Status:</b>	Design stage
	<b>Other comments:</b>	
	<b>Submittal Date:</b>	May-07
607-19	<b>Project Name:</b>	Washington County Commuter rail operations deployment
	<b>Project Location:</b>	Mainly Washington County, Beaverton, Tigard, Wilsonville
	<b>Project Summary:</b>	In conjunction with the construction of the Washington County Commuter Rail, various technology issues are being addressed, including providing wi-fi on trains, generating data for Transit Tracker, providing VMS on station platforms, and providing on-board TV.
	<b>Project Status:</b>	Under development
	<b>Anticipated Benefits:</b>	Traveler information provides consumer confidence while wi-fi and TV are simply amenities that can drive ridership levels
	<b>Jurisdiction:</b>	TriMet
	<b>Contact:</b>	Ron White
	<b>Other comments:</b>	Coordinating with City of Beaverton on installation of fiber conduit during construction.
	<b>Submittal Date:</b>	May-07

607-20	<b>Project Name:</b>	IT Improvements
	<b>Project Location:</b>	Regional: Portland metropolitan area
	<b>Project Summary:</b>	TriMet has a number of IT initiatives that are pertinent to ITS. These include managing the relocation of fiber during the green-line lightrail project along I-205; using DHS funding to expand CCTV coverage and to upgrade camera control software. Also, converting to voice-over-IP (VOIP) phone service.
	<b>Anticipated Benefits:</b>	Transit operation improvements.
	<b>Jurisdiction:</b>	TriMet
	<b>Contact:</b>	Ron White
	<b>Project Status:</b>	Ongoing
	<b>Other comments:</b>	
	<b>Submittal Date:</b>	May-07
607-21	<b>Project Name:</b>	Buses as Traffic Probes
	<b>Project Location:</b>	Regional: Portland metropolitan area
	<b>Project Summary:</b>	Based on GPS onboard buses, the project aims to provide traffic probe data to other operators and the PORTAL data archive for congestion analysis.
	<b>Anticipated Benefits:</b>	Enhanced understanding of traffic dynamics on arterial and lower roadways.
	<b>Jurisdiction:</b>	TriMet
	<b>Contact:</b>	Ken Turner
	<b>Project Status:</b>	Under development
	<b>Other comments:</b>	Currently low priority project.
	<b>Submittal Date:</b>	May-07