

Project Name	Description	Service Areas							
		TOCs	Regional Traffic Control	Traveler Information	Maintenance/Construction Ops	Road Weather Ops	Incident Mgmt	Emergency Mgmt	Archived Data Mgmt
Current Ongoing Projects									
TOCS: Event Management	Design TOCS to support event management at all ODOT TOCs by consolidating stand-alone systems, devices, and processes into one and by providing enhanced communication and more complete information and immediate dissemination to ODOT customers and partners (public and private).	X		X			X	X	
TOCS: Traffic Management	Integrate ATMS into TOCS to support traffic management devices and systems that collect, disseminate, and respond to traffic conditions.	X	X	X					
Mayday Integration	Integrate mayday support systems with ODOT systems to enable information sharing about incidents.						X		
TripCheck: PDA/RSS	Standardize TripCheck information for use with personal digital assistants (PDAs) and really simple syndication (RSS), which is a format used by the media.			X					
TripCheck: Cable TV Expansion	Implement the newest Bend area cable television application in other cities.			X					
TripCheck: Local Options	Develop a tool that allows subscribers (e.g. local transportation agencies, utilities, special event promoters) to post information to TTIP about maintenance/construction activities, incidents, and special events (e.g. county fairs, sporting events). Include functionality that allows this information to be disseminated to the public using the TripCheck system.			X	X		X		
Regional Trip Planner: Travel Options	Develop and test a system that will collect and deliver comprehensive public transportation information (bus, train, shuttles, taxis, etc.) to the public in Oregon and Washington via a Web site in each state.			X					
Advanced Transportation Controller Specification	Traffic signal control system evaluation and specification.		X						
Projects for 2007 - 2009 Biennium									
ATMS Connection to PDCC Message Broker	ODOT will develop an interface between ATMS and the PDCC message broker as part of a joint project with PDCC and OSP.	X					X	X	
TTIP: Statewide Expansion	Establish more data flows and agency interfaces with TTIP and expand the system beyond the Portland metropolitan area to include the entire state.			X					X
TripCheck: Traveler Customization	Enable the TripCheck system to provide customized information to travelers based on their daily commute. This enhancement may possibly include notification features.			X					
TripCheck Web Site: GIS-Based Mapping	Implement GIS-based mapping that enables users to zoom and pan the statewide map.			X					
Portland Area Route Probes	Collect data (possibly cell phone data) from private partners to determine travel times on routes in the Portland metropolitan area.		X						
TripCheck: Travel Times and Speeds	Update the Portland metropolitan area speed map on the TripCheck Web site to complete the freeway coverage, to include major arterial roadways, and to include more speed range categories. Add speed maps on the TripCheck Web site for the following metropolitan areas: Salem-Keizer, Eugene-Springfield, Bend-Redmond, and Medford/Rogue Valley. Determine travel times (based on real-time vehicle speeds and/or probe data) and disseminate this information to the TripCheck Web site, 511, and dynamic message signs.			X					
Regional Trip Planner: Routes and Schedules	Enhance RTP with routes and schedules.			X					
RWIS Web Database Accessibility Upgrade	Update IT systems/firewalls to allow maintenance crews remote access to RWIS Web database when away from the office.					X			
State Incident and Weather Reporting Tool	Create a Web tool that allows the public to get historic information on weather and incident data housed at ODOT.			X					X
511 System Replacement	Replace 511 system/infrastructure. The system should support other TripCheck features such as travel time reporting and information customization.			X					

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TOCS: Response Plan Management	Add a response plan tool to the TOCS system that selects and helps implement the appropriate pre-planned response based on incident input. Develop event response plans for major state routes and input them into TOCS. These plans should include detailed alternate travel routes, field device locations for use as part of the plan, and clearly defined agency roles and responsibilities when multiple agencies are involved.	X	X				X		
TOCS: HAR Integration	Update TOCS to include an interface with HAR systems around the state.	X		X					
Operations Management System	Develop an analytic tool for use in performance measures related activities. The system will include the ability to generate performance measures, to examine the impact of alternative actions, and to assist in prioritizing projects and allocating resources.								X
Projects for 2009 - 2011 Biennium									
TripCheck: Itinerary Services	Enhance TripCheck to give travelers options and conditions for traveling between two points.			X					
TripCheck: Rideshare	Add information to TripCheck about ridesharing.			X					
TripCheck: Bicycle Paths and Routes	Add information to TripCheck about bicycle paths and routes.			X					
TripCheck Web Site: Mountain Pass Pages	Add mountain pass pages on the TripCheck Web site that show a graphical profile of the pass with road temperature, current weather conditions, forecasted weather conditions, and camera images (similar to WSDOT/UW traveler information Web site). Potential mountain passes for inclusion are: I-5 Siskiyou Pass, US 20 Santiam Pass, OR 58 Willamette Pass, and US 26 Blue Box Pass.			X					
511: Transit Agency Integration	Allow system users to connect to local transit agency traveler information.			X					
Regional Trip Planner: Itinerary Planning	Itinerary planning for transit travel.			X					
PDCC Message Broker: Intelligent Message Routing	Develop routing system that sends messages to the appropriate subscribers based on the geographic location of the incident or emergency.	X					X	X	
TOCS: Traffic Signal Integration and Freeway/Arterial Integration	Enhance the TOCS system to integrate with ODOT and local traffic signal systems. TOCS will collect data from traffic signals/systems to detect events, view signal status, and to provide failure notifications when traffic signals require maintenance (e.g. failed loop detector). Based on the data TOCS will also implement predetermined event timing plans based on preset roadway condition thresholds and will also adjust ramp meter timings where ramp meters are located adjacent to traffic signals.	X	X				X	X	
TOCS: Weather Integration	Update TOCS to include an interface with the RWIS database and other available weather data.	X				X			
TOCS: ForSeCom Integration	Update TOCS to include an interface with ForSeCom to allow TOC operators access to LEDS and NCIC.	X					X	X	
TripCheck Web Site: Streaming Video	Display streaming video from CCTV cameras on the TripCheck Web site.			X					
Projects for After the 2009 - 2011 Biennium									
TOCS: City of Portland Tow Desk Integration	Update TOCS to include a communications interface with the City of Portland Tow Desk.	X					X	X	
Permanent Variable Speed Limits	Install permanent variable speed limits on state highways throughout Oregon where the posted speed needs to be adjusted based on real-time traffic flow conditions.		X						
Ramp Meter NTCIP Compliance	Update ramp meters to meet NTCIP standards.		X						
Portable Smart Work Zone Management System	Develop and build a portable "smart work zone" system that can be deployed at work zones or special events to analyze traffic flow in real-time and provide updated information to drivers.	X		X	X				
Maintenance Activity Management Tools	Use AVL and other sensors to manage sanding, de-icing and other maintenance activities.	X			X	X			

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Public Agency Deployment for VII	Install roadside units or wide-area wireless networking at signalized intersections and at key points on urban freeways and major rural highways so that vehicles may communicate with the roadside and activate in-vehicle warning systems as applicable to prevent roadway departure and intersection incidents. This may include in-vehicle signing.	X	X	X		X			
TripCheck: Travel Time Forecasts	Provide travel time forecasts based on historic data to assist with pre-trip planning.			X					
Weather Probes	Use VII systems to obtain weather conditions information collected by AVL or other systems installed on-board personal vehicles. Several use cases in the VII initiative describe using private vehicles as probes to gather information such as pavement temperature, friction, and the presence of rain.			X		X			
Road Weather Forecasting and Winter Maintenance Decision Support System	Upon U.S. DOT and NOAA's completion of the Clarus initiative, deploy a system that integrates weather observing, forecasting, and data management to predict road conditions. Include a tool that models various treatment options to help a maintenance manager select the right resource strategy to deal with a coming weather event.					X			
Vehicle Probe Surveillance	Upon U.S. DOT's completion of the VII initiative, use personal vehicles as probes to monitor traffic flow and to provide travelers with congestion related information and predicted travel times on key travel routes. This may require the deployment of roadside devices to collect probe data or an agreement with an ISP to collect the data.		X	X					
Develop Standards for ITS Applications in Work Zones	Update the Traffic Control Plans Design Manual to include standards and guidelines for using the following applications in work zones: incident detection and management, queue detection with electronic driver feedback signs, variable speed limits, lane merge controls, intrusion detectors, and over-dimension vehicle warning systems.				X				
TOCS: EOC Integration	Integrate the TOCS software with the WebEOC software used at the ECC and ODOT EOCs to enable information sharing and coordination between traffic and emergency management agencies.	X						X	
Mobile Incident Management Tools	Enhance incident response vehicles with camera and detection technologies that can be set up on site to help manage the incident.						X	X	
TOCS: Archiving Functionality	Improve the archiving of system data using TOCS.	X							X
TOCS: Task Automation	Enable TOCS to automate tasks not currently automated by any of the existing systems in the handling of an event.	X							
CCTV Camera NTCIP Compliance	Update CCTV camera systems to meet NTCIP standards.		X						
TTIP: Heavy Rail Interface	Add functionality to allow heavy rail operators to provide train arrival information.	X		X					
Statewide Central Traffic Signal System	Deploy a statewide central signal system and deploy additional communications infrastructure so that traffic signals are accessible through the central signal system.	X	X						
Health Care System Integration	Health care agencies (e.g. hospitals) will collect information from the TOCS and TTIP systems to get advance information on crashes.			X					