

**Survey Results
& Analysis**

for

AASHTO 2012 Fall IT Survey



Data Finalized: Monday, December 17, 2012

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Executive Summary

This report contains a detailed statistical analysis of the results to the survey titled *AASHTO 2012 Fall IT Survey*. The results analysis includes answers from all respondents who took the survey in the 86 day period from Thursday, September 13, 2012 to Friday, December 07, 2012. 27 completed responses were received to the survey during this time. The results for the survey were reported on at the FY2013 ASIS Conference occurring in Boise ID in May 2013.

Survey Results & Analysis

Survey: AASHTO 2012 Fall IT Survey

Author: Jim Ramsey

Responses Received: 27

1) State or Province:

Shaded denotes response received. As of 20121217 AM, there were 27 states responding agencies.

Alabama	Kentucky	North Dakota	Alberta
Alaska	Louisiana	Ohio	British Columbia
Arizona	Maine	Oklahoma	Manitoba
Arkansas	Maryland	Oregon	New Brunswick
California	Massachusetts	Pennsylvania	Newfoundland, Labrador
Colorado	Michigan	Rhode Island	Northwest Territories
Connecticut	Minnesota	South Carolina	Nova Scotia
Delaware	Mississippi	South Dakota	Ontario
D.C.	Missouri	Tennessee	Quebec
Florida	Montana	Texas	Saskatchewan
Georgia	Nebraska	Utah	Other
Hawaii	Nevada	Vermont	
Idaho	New Hampshire	Virginia	
Illinois	New Jersey	Washington	
Indiana	New Mexico	West Virginia	
Iowa	New York	Wisconsin	
Kansas	North Carolina	Wyoming	

2) Contact Information (Agency Name, Contact Name, and Division must be provided as minimum):

	Agency Name:	Contact Name:	Title:	Division:	Phone Number:	E-mail Address:
AK	Alaska Department of Transportation & Public Facilities	George Crowder	Information Technology Manager	Administrative Services	907 465-6992	george.crowder@alaska.gov
AL	Alabama Department of Transportation (ALDOT)	Michael Stokes	Information Systems Manager/Bureau Chief	Computer Services Bureau	(334) 242-60	stokesm@dot.state.al.us
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CA	California Department of Transportation	Doug Kempster	Acting CIO		9166546282	doug.kempster@dot.ca.gov
CO	Colorado Department of Transportation	Gregg Miller	Business Process Architect	Executive Director	303-757-9140	gregg.miller@state.co.us
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IA	Iowa Department of Transportation	Barbara Espeland	Director of Information Technology	Information Technology	(515) 239-1640	Barbara.Espeland@dot.iowa.gov
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KS	Kansas Department of Transportation	Jeff Neal	CIO	Partner Relations	785-296-3727	jfneal@ksdot.org
KY	Kentucky Transportation Cabinet	Jon Clark	Executive Director	Office of Information Technology	502-564-8900	jon.clark@ky.gov
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MB	Manitoba Infrastructure and Transportation	Dan Buhler	Director	Information Technology Services	1-204-945-4512	Dan.buhler@gov.mb.ca
MI	Transportation	Andy Esch	Information Security Officer	Information Technology Security & Administration		
MO	Missouri Department of Transportation	Beth Ring	Information Systems Director	Information Systems	573-751-1345	Beth.Ring@modot.mo.gov
MT	Montana DOT	Mike Bousliman	CIO	Information Services	4064446159	mbousliman@mt.gov

NC	NCDOT	Frank Winn, PE	Director, Engineering Transportati on Sys	Information Technology	919-707-2223	fswinn@ncdot.gov
ND	North Dakota Department of Transportation	Russ Buchholz	IT Director	Information Technology Division	7013282561	rjbuchholz@nd.gov
NE	Nebraska Department of Roads	Bill Wehling	Engineer VII	Business Technology Support	402-479-3986	bill.wehling@nebraska.gov
NM	New Mexico Department of Transportation	Eva Campos	Chief Information Officer	Information Technology	505-827-5212	Eva.Campos@state.nm.us
OR	Oregon Dept. of Transportation	Ron Winterrowd	Transportati on AD Service Delivery Mgr	Central Services / Information Systems	503-986-3206	Ronald.E.WINTERROWD@od ot.state.or.us
PA	PennDOT	Roger Riley	Director	IT Business Solutions and Services		
SC	SCDOT	Douglas Harper	Agency CIO	Customer Services	8037371045	harperds@scdot.org
TN	TDOT	Joe Kirk	IT Manager	Information Technology	(615)741-0601	joe.kirk@tn.gov
TX	Texas Department of Transportation	Louis Carr, Jr.	CIO		512-305-9505	louis.carr.jr@txdot.gov
UT	Utah Department of Transportation	David G. Burton	Agency IT Director	Department of Technology Services (DTS)	801-965-4220	dbuton@utah.gov
VA	Virginia Department of Transportation	Murali Rao	Information Technology Director		804 786 9702	murali.rao@vdot.virginia.gov
WY	Wyoming Department of Transportation	James England	IT Program Manager	Information Technology	(307) 777-4421	rusty.england@wyo.gov

3) Please identify the following additional key personnel:

	Technical Support Manager	Technical Support Mgr Telephone	Technical Support Mgr Email Address	Applications Manager	Applications Mgr Telephone	Applications Mgr Email Address	GIS Manager	GIS Mgr Telephone	GIS Mgr Email Address	Security Manager	Security Mgr Telephone	Security Mgr Email Address
AK	Brian Idzik	907 465-8964	brian.idzik@alaska.gov	Steve Rice	907 465-2956	steve.rice@alaska.gov	Kerry Kirkpatrick	907 465-8957	kerry.kirkpatrick@alaska.gov	Sandra Edwards	907 465-2917	sandra.edwardson@alaska.gov
AL	Princess Harper	(334) 260-52	harperp@dot.state.al.us	Deborah Hornsby	(334) 242-68	hornsbyd@dot.state.al.us	same as Application Manager			Michael Stokes	(334) 242-6037	stokesm@dot.state.al.us
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WY	Dave Birge	(307) 777-3995		Paris Edeburn	(307) 777-3995		Vince Garcia	(307) 777-3995		Dave Birge	(307) 777-3995	

4) If the information is readily available, please provide the following high-level organizational information for your agency. If development of the information requested in this question is too time consuming, or you do not know a particular item, please leave the item blank/empty.

	Overall Agency Operating Budget (\$)	Overall Agency IT Operating Budget (\$)	Overall Agency IT Capital Budget (\$)
AK	621,000,000	19,247,000	1,104,509,000
AL	Not availalbe	Not Available	Not Available
AZ	\$360M	\$12M	
CA		80,000,000	38,000,000
CO	1,100,000,000	25,600,000	4,000,000
FL	831.1M	37.8M	0
IA	\$324,339,000	\$23,789,000	\$6,259,958
ID	\$300 million	\$2.million	\$500,000
KS	1.6 B	14 M	5 M
KY	2,269,825,254	26,946,000	500,000
MB		\$13,000,000.00	
MI	3.4 billion	25 million	5 million
MO	\$2.2B	\$19.4M	\$5.6M
MT	727,809,323	11,842,944	0
ND		11,014,026	678,292
NE	275,000,000	11,700,000	1,200,000
NM	800,000,000.00	16,000,000.00	
OR	1,800,000,000 y	54,000,000 (yr)	732,000 (yr)
PA	2,000,000,000	90,000,000	40,000,000
SC	1,200,000,000.0	6,000,000.00	10,000,000.00
TN	600,000,000	35,000,000	
TX	9.3 billion	49.7 million	50.6 million
UT	\$300,708,900	\$9,318,800	\$176,000
VA	4 B	85 M	n/a
WY	\$588,479,459	\$5,434,866	\$436,000

5) Please provide the following numbers Full and Part Time Employees if reasonably available.

	Number of employees within Agency	Number of employees providing application development	Number of employees providing application maintenance	Number of employees providing technical support
AK	3187	2	23	35
AL	4380	55	55	75
AZ	4100	80	50	8
CA	600	20	80	450
CO	3100	8	12	8
FL	6939	16	14	141
IA	2812	58	58	62
ID	1883	16	16	32
KS	3000	35	35	35
KY	4745	9	0	9
LA	4300	20	20	35
MB	3400	0	0	0
MI	2800			
MO	4938	3	12	50
MT	2253	23	0	18
NC	12000	150	100	50
ND	1058	15	15	17
NE	2100	25	25	50
NM	2502	5	6	12
OR	4820	73	67	46
PA	12600	25	25	50
SC	5000	25		15
TN	3500	10	10	25
TX	11800			
UT	1640	8	21	24
VA	7500	10	10	15
WY	2000	7	6	22

6) Please provide the following numbers Full and Part Time Contractors for staff augmentation if reasonably available.

	Number of contractors within Agency	Number of contractors providing application development	Number of contractors providing application maintenance	Number of contractors providing technical support
AK	6	2	2	2
AL		19	19	9
AZ		9	1	0
CA	10	3	0	7
FL	3000	35	15	3
IA	0	0	0	0
ID	25	10	10	5
KS	7	3		4
KY	48	11	0	2
LA	4			1
MB	0	0	0	0
MO		4	12	4
MT	0	0	0	0
NC		50	25	10
ND	3	0	0	0
NE	15	9	9	5
NM	1	2	0	2
OR	45	17	12	2
PA	500	50	50	50
SC	12	6	6	
TN	30	7	5	
UT	56	10	2	0
VA	80	20	20	25
WY	3	0	1	2

7) Please list the top three IT application development or implementation projects your agency plans to undertake in the next one to two years:

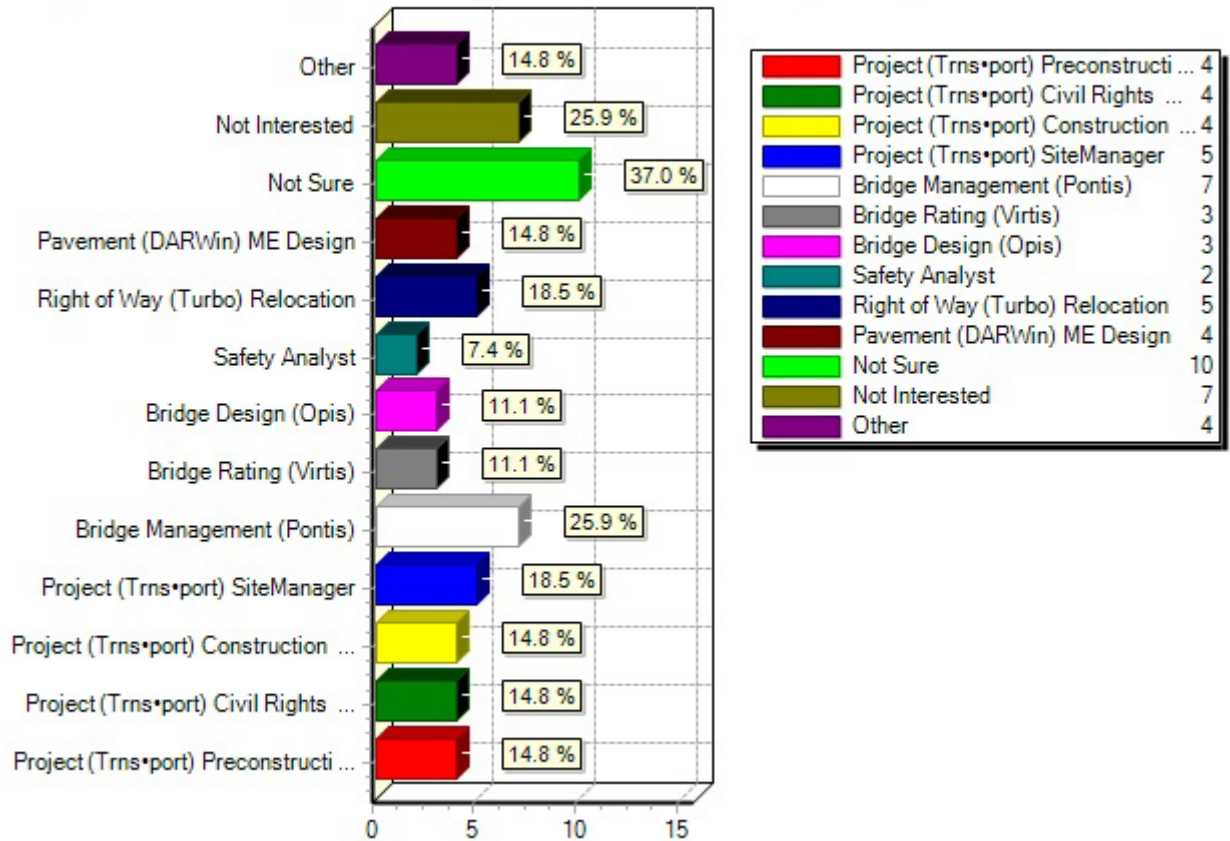
	Project 1 Description	Project 2 Description	Project 3 Description
AK	TAM Transportation Asset Management	IRIS Integrated Resource Information System -- CGI Consultants to Government and Industry -- CGI Advantage™ ERP	eDocs – Electronic Document Management System
AL	New enterprise Linear Referencing System and new enterprise Geodatabase model design	Permitting app for outdoor advertising signs and ROW permits	Railroad crossing web app
AZ	Legacy system replacements	Business Intelligence / Dashboards	GIS Enterprise Platform
CA	Construction Management System (under development). Similar to Site Manager, but not implemented using AASHTOWare.	California Transportation Infrastructure Funding System. Planning, Programming, Budgeting and Federal Reporting of Local Construction Projects	Inventory and Asset Management. Financial application (taggable, not linear, assets.)
CO	New Oversize Overweight Permit system	New Procurement system	New project portfolio reporting system
FL	Materials Acceptance & Certification: The development of a new Materials Acceptance and Certification System (MAC) is a technology refresh initiative to replace the Department's current Laboratory Information Management System (LIMS), which is no longer viable from a technology perspective.	Permit Application system – Routing: The Routing/PAS Project will be the development of • a GIS routing module, • a vehicle analysis tool and • user interface application enhancements for the existing web-based Permit Application System (PAS).	One Stop Permitting: OSP Phase II Project will create an enterprise electronic permit administering system to streamline and improve utility permitting activities. • Introduce to individuals, business and FDOT staff an enterprise permit administering system by March 16, 2013, within the approved scope, schedule and budget • Eliminate the need to mail paper forms and documents • Decrease the time from permit request to permit issuance • Enable fast application organization and tracking • Improve review efficiency and speed • Provide real-time permit status updates
IA	Highway GIS System	Maintenance Division Transportation AVL and Data Collection	Asset Management
ID	Modernization of ITD's DMV System	Snow Plow Mobile Data Project that includes data collection, wireless data uploads transmitted to our Asset Mgmt system	Integrated IT Service Desk and Asset Management
KS	Legacy Modernization	CMS Replacement	Desktop Virtualization
KY	Vehicle Titling and Registration System scheduled for production Fall 2013. Cost \$26M. Contractor 3M	Replace Drivers Licensing System scheduled to start when project 1 ends. Cost \$12.5M. Contractor 3M	Inhouse rewrite and migration from the mainframe all motor carrier related systems including IRP. Cobol to C# .Net
LA	Implementation of AASHTO CRLMS and Preconstruction 2.02.	Continue the rollout of SharePoint by converting DOTD's Intranet pages.	Explain applications functionality to Mobile Devices.
MB	Bridge Management System implementation	Permits and Routing (replace existing system)	Asset Management System implementation
MI	MPINS/PPMS	Enterprise Asset Management	Trnsport Web

MO	Modernization of the Transportation Management System --move this system from a CASE based tool (CA Advantage Gen) to .NET.	Complete Disaster Recovery implementation - finish what was started in 2008 --base recovery on VMWare Site Recovery Manager	Various enhancements to our Motor Carrier Express system --rewrite it out of Websphere Portal, rewrite Safety and Compliance module, standardize its reporting module
MT	Implementation of a new Safety Management system	Implementation of a new Maintenance Management System	Development and implementation of an electronic personnel file system
NC	ROME: Implementation of Esri's Roads and Highways Product	ECM: Implementation of enterprise content management system	Next Generation Drivers License project within DMV
ND	Motor Vehicle System Replacement	Business Intelligence	Road Condition System Web and Mobile
NE	Rewriting our Project Finance System	Begin the move of mainframe applications to web applications	Implementation of COTS software for ROW management
NM	NMDOT is not planning on implementing any new applications at this time. The department is looking into integrating the applications it currently supports.		
OR	Trans Ops Center Digital Message Sign Integration and Resource Mgt - enhance messages on digital message signs for detours and notifications based on the location, type and impact of a real time event and a enhance event, resource contact screens.	Digital Signatures for Professionals - ability to digitally sign content that ODOT's licensed engineering professionals apply to documents they print, stamp and sign.	Highway Advisory Radio Automation (HAR) - to allow automatic incident and alert updates to HAR based on information populated into ODOT's Transportation Operations Center System (TOCS).
PA	Mobile - Posted and Bonded Roads Inspection. Due to Mersellus Shale exploration, abnormally high usage of roadways with overweight vehicles are requiring improved monitoring of roadway stability. Project currently underway using Agile development with estimated rollout of January 2013.	Automated Traffic Management System, ATMS. Over the years the department has deployed differing hardware, software and infrastructure across the state's districts and regions to meet its rising needs. This has caused increased maintenance and integration issues and costs as well as limited expansion and value. This project is to uniformity across the state. The project is in its kickoff stage and designed as three deployment phases over an estimated 40 month timeline.	Construction Documentation System, CDS, NextGen Rewrite. Currently CDS is on obsolete infrastructure. This project is to modernize and streamline by moving CDS functionality to SharePoint and ECMS. Estimated completion date is December 2013.
SC	Overall Security Initiative	Ongoing Electronic Document Management System	Replacement of Oversize/Overweight System
TN	Migrate to AASHTOWare webTrns*port Construction, M&T, Pre-Construction and CRLMS	Right of Way	Outdoor Advertising
TX	ERP implementation	Application rationalization	Application modernization

UT	<p>Project Scheduling: Enhancements to UDOT's electronic Program Management (ePM) system to provide improvements to construction projects to include: resource loading, and user notification of tasks due using Sharepoint, as well as integration of individual schedules via the MS Project server. The proposed enhancements will allow Project Managers to create more accurate project schedules as well as the ability to communicate and provide more meaningful and accurate project management information.</p>	<p>Roadway Data Collection: UDOT has contracted with a vendor to obtain asset data such as; pavement conditions, existing pavement surface areas, number & types of lanes, side slope profiles, vertical & horizontal data, sign inventory, and GIS/GPS coordinates. After the data is collected, it will be post-processed to allow for analysis of the data. Roadway and Pavement Photolog images will also be provided.</p>	<p>Mobile Enhancements and Development: Enhancing UDOT's various applications to take advantage of mobile technologies, primarily Android and iPad/iPhone technology.</p>
VA	<p>Customer Relationship Management system and software</p>	<p>Construction Document Management system</p>	<p>Field maintenance mobile applications</p>
WY	<p>Sunset mainframe applications.</p>	<p>ERP rehosting & upgrade</p>	<p>Primavera Upgrade</p>

8) Which of the following products would your agency be interested in using in a hosted environment?

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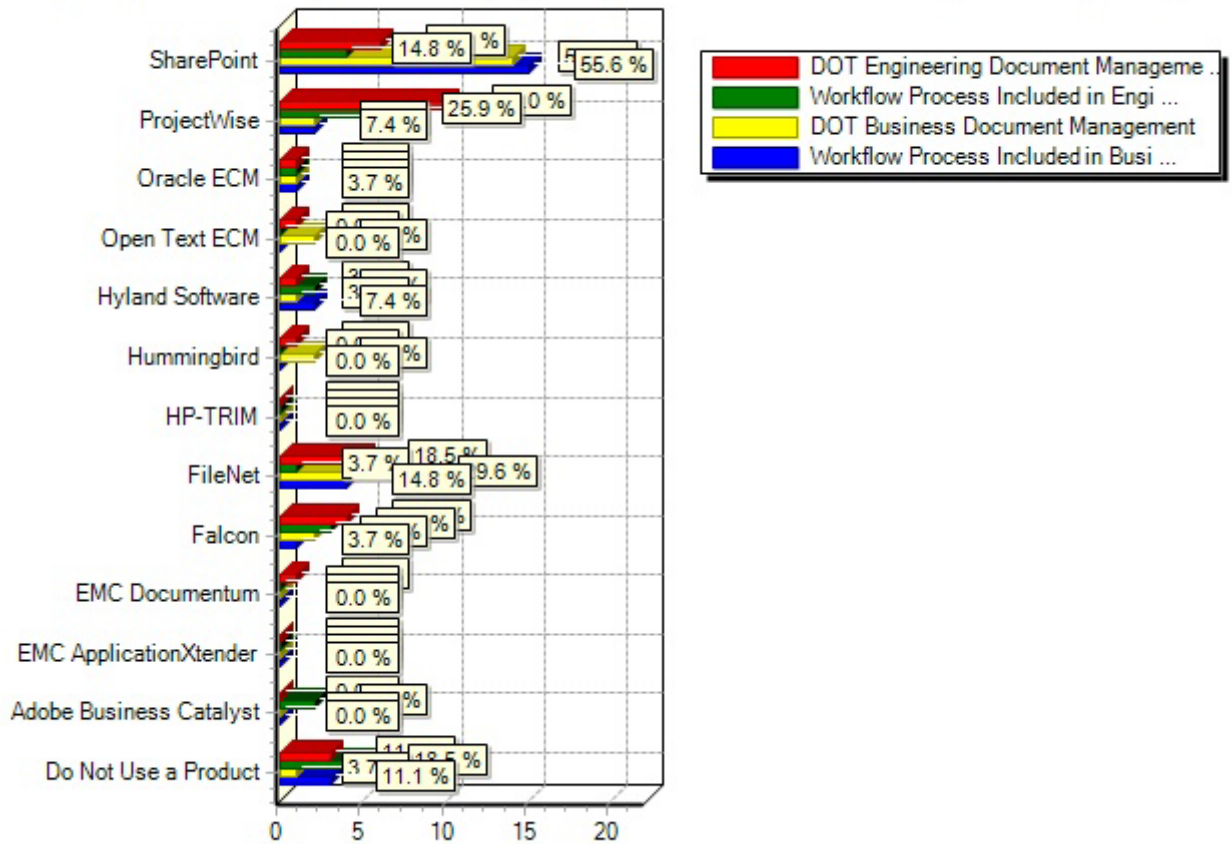


Other Responses:

CO	Any and all
IA	See Comments on last page.
KY	Would consider hosted env for any applic
UT	Currently using Pontis and Virtis.

9) Does your DOT use a product for engineering and/or business document management? Is a workflow process/solution included? If so, please indicate the product(s) and its use. If not listed, please indicate the product(s) in Additional comments along with any other relevant information.

9) Does your DOT use a product for engineering and/or business document management? Is a workflow process/solution included?



Comment Responses:

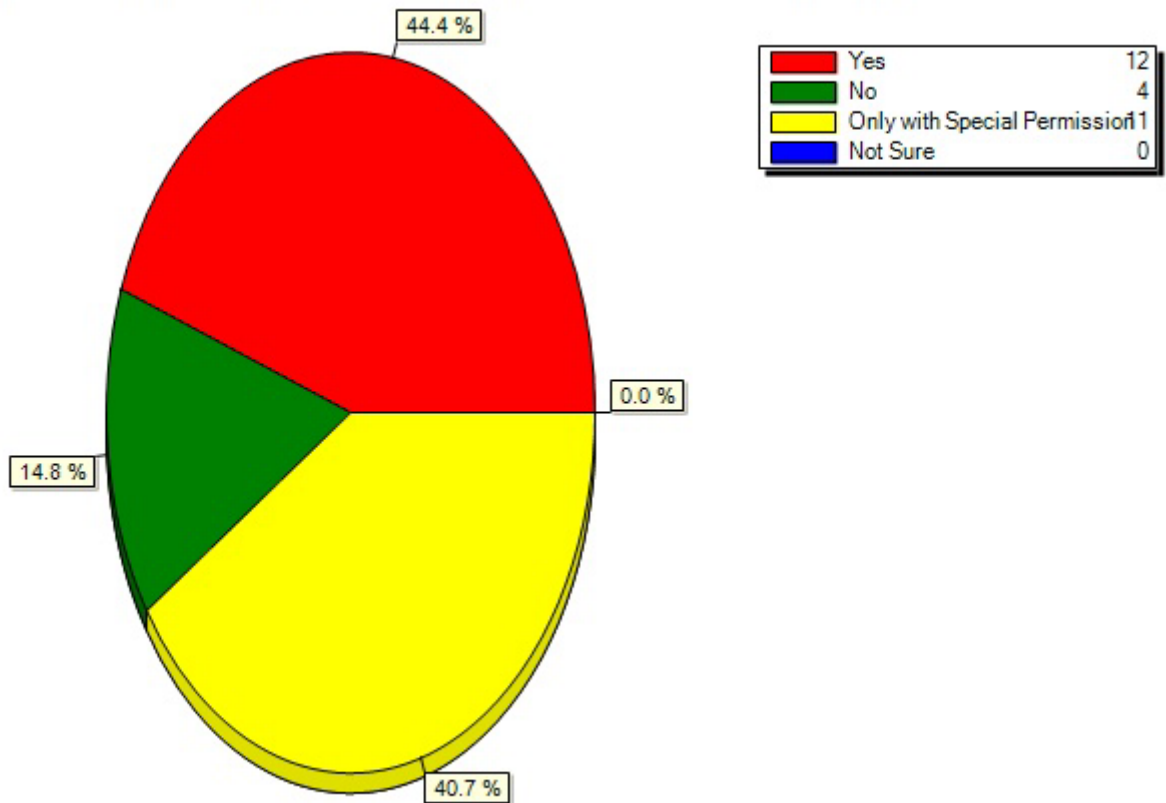
CA	Falcon has been in use for several years. Documentum is being implemented as part of the Construction Management System. SharePoint is being piloted.
IA	See Comments Section.
KY	workflow in applications not out of the box usage
LA	DOTD Uses IBM Content Manager for most of its Document Management functionality. We just started using SharePoint to manage our in process documents, not archive
MB	ProjectWise not fully implemented. Currently using TIMS for eng. doc mgmnt but replacing it with ProjectWise.
MT	We use an internally developed DMS
NE	We currently use the workflow component of Hyland Software and move our documents into Falcon when completed.
TX	ProjectWise is being implemented.
UT	The SharePoint environment is evolving.
WY	Falcon

10) What new or emerging technologies do you foresee occurring or implementing in the near future?

	What new or emerging technologies do you foresee occurring or implementing in the near future?
AK	Cloud, virtualization, mobile and social media
AL	Esri's Roads and Highways solution for linear referencing Virtual environments for servers and desktops Smart phones, smart tablets, and other mobile devices
AZ	Mobility. Web 2.0. Social Media.
CA	Service Oriented Architecture, to facilitate communication between applications. An interface between the Highway Patrol and Traffic Management is under development. Also developing mobile applicationsl
CO	Hosted server solutions
FL	Infrastructure as a Service (IaaS) cloud-based providers; Desktop Virtualization; Bring Your Own Device (BYOD)
IA	Implementation of a content management system (DotNetNuke). Implementation of a tablet asset management tool.
ID	Mobile Device Mgmt
KS	Desktop Virtualization, mobile technologies.
KY	Accelerated mobile application development
LA	Explain the use of Mobile Devices.
MB	We are looking at implementing tablets, just like everyone else! (Initial application: inspections)
MI	Mobile applications
MO	Mobile apps; cloud; BYOD;
MT	A new document management solution
NC	Mobile Devices, Esri AGOL (Esri Cloud solution)
ND	Mobile Centric Applications and Interfaces. More web apps. Image recognition - "QR" tags with info. Use of Agile for projects. More implementation of 3rd party software. Upgrade to FileNet 5.2
NM	NMDOT will be looking at implementing a new Maintenance Management System in the coming years
OR	SmartPhones
PA	Mobile Computing. Building applications for the mobile device and making current applications available through the device
SC	We are in the initial phases of deploying projectwise.
TN	Microsoft Team Foundation Server, iPad, Visual Studio 2012, Data Warehousing, mobile apps
TX	Mobile computing continues to be of great interest.
UT	Mobile Application Development for SmartPhones and Tablets.
VA	K2 workflow. Mobile computing. Citizen self service portals.

11) Does your agency allow non-public-information-office employees to access social media sites (Facebook, Twitter, YouTube, etc.) while in the workplace?

11) Does your agency allow non-public-information-office employees to access social me



12) Please identify which social media sites your agency uses and describe how your agency uses these sites.

	Please identify which social media sites your agency uses and describe how your agency uses these sites.
AK	Not available
AL	None
AZ	Facebook, Tweeter, YouTube, Blogspot
CA	Twitter and Facebook -- Provide information on initiatives and specific projects. YouTube - videos.
CO	Twitter, Facebook, YouTube -- feedback and information videos
FL	Facebook, Twitter, YouTube
IA	Facebook - We use Facebook as a tool for sharing information of interest and generating conversation to DOT related topics within Iowa. Twitter – We use Twitter as a tool for sharing information of interest about DOT related topics within Iowa. YouTube – We use YouTube for employment recruitment and to share DOT related information. MySpace – We use MySpace as a tool for sharing information if interest and generating conversation to DOT related topics within Iowa.
ID	You Tube Twitter Facebook
KS	Facebook, Twitter, Web
KY	Youtube, facebook, twitter public information, highway safety applications, traffic operations
LA	Facebook and Twitter with limited access. Games and other entertainment functions are blocked.
MB	We allow open access to YouTube, but we post infrequently. We use Twitter for road conditions and special press releases.
MI	Facebook, twitter, Youtube
MO	Facebook --updates on construction; twitter --updates on incidents; youtube --videos on proposed projects, videos to help get our message out.
MT	Facebook - recruiting Twitter - road conditions flicker/Pinterest - general info YouTube - general info
NC	Home Page includes a Secretary of Transportation site for Twitter, Facebook, YouTube and Flickr. Desimination of information and public comments.
ND	Facebook, Youtube, GovDelivery, RRS feeds.
NE	Twitter is used to provide information for the public.
NM	No Social Media is used
OR	The ODOT Communications Office represents the agency on major social media sites like: Facebook, Twitter, YouTube and Flickr.
PA	Media unit rceives information through facebook and twitter.
TN	Twitter - automated feed of traffic conditions, YouTube and Facebook - distribute agency related information
TX	Facebook, Twitter, and YouTube are used to share information and collect citizen comments.
UT	UDOT recognizes the importance of social media sites as a way to communicate with our customers and as a way to collaborate. The majority of our social media sites are used to share information with the public about Department programs and projects. However a few sites have been established to allow for collaboration between employees and partners. The tools being used are: Blogs, Facebook, Twitter, YouTube, Flickr, RSS Feed, Google+ LinkedIn and Pinterest.
VA	Facebook: communication and feedback from/to citizens; twitter: incident reporting and road condtion alerts, etc. Flickr
WY	Facebook - Our PAO office has an account and maintains the information.

13) Please describe how your agency plans to integrate social media into applications. Please also indicate if your agency has no plans to integrate social media into applications.

	Please describe how your agency plans to integrate social media into applications. Please also indicate if your agency has no plans to integrate social media into applications.
AK	No plans at this time
AL	No plans at this time
AZ	Corporate Communications is a division-level organization charged with engaging external and internal constituents and stakeholders through effective use of social media.
CA	No current plans to integrate social media with applications.
CO	Not sure
FL	None at this time.
IA	No plans to integrate social media into applications at this time.
ID	We use this in many ways
KS	N/A
KY	No immediate plans to integrate with applications but should occur before long.
LA	No plans.
MB	We will be redeveloping our RoadInfo application within 1-2 years. Social media will be used (functions built in, not "outside the application") in the new application.
MO	No explicit plans at this time
MT	No specific plans
NC	None at this time
ND	Creating Listservs to keep the mobile public informed of current conditions and information.
NE	None
NM	None at this time
OR	Integration with road conditions application called TripCheck. For example Twitter integration with TripCheck.
PA	Department not opposed to expansion in this area. Concerns will be approval from security and media.
SC	Cautiously
TN	Twitter feeds integration into mobile applications
TX	We plan to integrate social media into our complaint tracking system.
UT	Discussions have been held about incorporating a social media sharing feature on the UDOT Traffic app. This would allow users to share impact information through their own social media accounts. Right now there are no plans to incorporate social media in any internal apps but as external, public apps are created social media may be an important component.
VA	integrate social media with customer relationship systems and agency external websites.
WY	We currently use Google for enterprise email and it has various social media components, e.g. Google+. When we upgrade our ERP system it will have some social components.

14) Please identify the top three agency business processes that could be improved through the use of mobile technology.

	Business Process 1	Business Process 2	Business Process 3
AK	No processes identified		
AL	Any application that is intended for use in the field for data collection		
AZ	Constituent outreach, from information to engagement.	Business intelligence - information available to decision-makers anywhere, anytime and in any format.	Data collection and reporting, from incident response to mundane asset inventory.
CA	Starting and ending Lane Closures. (proposed)	Traveler Information (implemented)	Maintenance Service Requests from the public (development complete, but not announced.)
CO	Workflow approvals	Maintenance work order assignments	Asset management identification
FL	Bridge inspection	Materials sampling and testing	Permitting
IA	Asset Management	Legislative Tracking	Airport Information System
ID	Asset Mgmt	Collaboration among employees	Easy access to information
KS	Bridge/Roadway Inspections		
KY	Emergency Management (Flooding, Rock Slides, Snow and Ice, etc.)	Field Maintenance (Asset repair/replacement, work orders)	Pre-construction site inspections. (Environmental, Right-of-way, etc.)
LA	Plan Distribution	Maintenance Operations	Construction Project Bidding and Award.
MB	Inspections	data capture (mobile LiDAR)	
MI	Inspections	Maintenance Activities	Construction
MO	Construction inspection;	Snow fights;	maintenance resource management
MT	Field Data collection for numerous applications across the agency	Audit/construction/maintenance review activities	
NC	Bridge Inspection	Maintenance Management	Construction Management
ND	Roadway Inventory collection and update	Bridge Inspections	
NE	Field Inspections	Accident Reporting	
NM	n/a		
OR	Internal Communication for mobile employees.	Highway Maintenance Operations for mobile workers.	Weather and Road Condition communication to the public.
PA	Highway - inspections	Safety - Exams	Planning - GIS Road surveys
SC	Culvert Inspections	Sign Inventory	Bridge Inventory
TN	In the field data gathering	Rady access to business information for management	Empower mobile workforce
TX	Field work		
UT	Reporting road/lane restrictions due to construction	Field Data Collection, including GPS Coordinates	Inspection; data collection & reporting
VA	Field maintenance activities planning, execution, and reporting.	Roadway construction, bridge and operations inspections and reports.	Public facing mobile apps for self service interaction with agency business functions.
WY	MDSS for snowplows	Highway Patrol e-citations	Various field functions, e.g. inspections.

15) Please identify any internal smart phone/mobile applications your organization is developing and the devices (e.g., iPads, iPhones, Android tablets, Blackberrys, Windows Mobile Phones) the applications will run on.

	Please identify any internal smart phone/mobile applications your organization is developing and the devices (e.g., iPads, iPhones, Android tablets, Blackberrys, Windows Mobile Phones) the applications will run on.
AK	None
AL	ALDOT's equipment scanners utilize custom developed mobile software for use with asset management. Our Construction and Materials Management System (CAMMS) is being designed to work with smart phones and tablets such as iPads, but there is no immediate plan to implement these versions in the field.
CA	Quickmap (Traveler Information) already in production. Developed with HTML5, so it will support any device that allows that technology. Published for Android devices. iPhone specific version waiting on Apple licenses. Browser version works on all devices.
CO	Workflow approvals. work on all mobile phones and tablets
FL	None at this time.
IA	We are developing a mobile application that will integrate with our Service Desk application. This application will allow technicians to work Service Desk tickets that have been assigned to them while away from their workstation. It will run on either Android or iOS tablets and phones.
ID	none
KS	N/A
KY	Rail Crossing - Inventory/Inspections running Windows Mobile 6.1 with ESRI ArcGIS for Mobile application on Trimble Juno's. (Out-of-the-box application with custom developed extensions) •Kentucky Encroachment Permit Tracking running Windows Mobile 6.1 with ESRI ArcGIS for Mobile application on Trimble Juno's. (Out-of-the-box application with custom developed extensions) • We have other Pilot Projects using ESRI's Out-of-the-box application with custom developed extensions. o Hazardous Trees Management o Maintenance Work o Asset collection • Construction Inspections using various devices, but mostly iPads, using CarryMap application by DataEast. (Out-of-the-box application with custom scripts to structure data correctly for CarryMap application consumption. • AgileAssets developed, with continual improvements, a sign inventory application using ESRI ArcGIS for Mobile as the backbone but with a lot of custom development to include things like a barcode scanner. This runs on a Motorola MC75 running Windows Mobile 6.5. • Working with Kentucky Transportation Center at the University of Kentucky on an ESRI Runtime iPad application for Pavement Evaluations. (Custom Development)
LA	We are just now exploring developing applications for mobile devices.
MB	Off-Road inventory capture
MO	No development at this time; will purchase a cloud service/iPad app to manage Commission and Senior Management team documents
MT	Safety data collection app under development as a POC
ND	IPhones to work directly with MDSS (meridian)
NE	N/A
NM	None at this time
OR	TripCheck, http://www.tripcheck.com/Pages/CamerasEntry.asp
PA	The department is developing three applications for iPads and one for Android
SC	Maintenance Work Request - All
TN	TAPS - web-based access to active construction data from SiteManager designed for iPad access
UT	An internal mobile application for Material Testing has been developed to run on iPhones, iPads, and Androids. When it makes technical and business sense, mobile technology is being considered for those applications that have a field aspect to them.
VA	Field maintenance activities reporting; for iphones and androids.
WY	Still in R&D.

16) Please identify any external smart phone/mobile applications your organization is developing and the devices the applications will run on.

	Please identify any external smart phone/mobile applications your organization is developing and the devices the applications will run on.
AK	None
AL	Our Construction and Materials Management System (CAMMS) is being designed to work with smart phones and tablets such as iPads, but there is no immediate plan to implement these versions in the field.
AZ	MVD office locations & wait times; road closures. iPads, iPhones, Android tablets.
CA	So far, all our smart phone apps have been external. The Department owns very few of these devices, per order of the Governor.
CO	Travel time predictor (android, apple)
FL	511; SUNPASS (Toll collection); iPhone/iPad, Android.
IA	We are developing: 1. A legislative information application to help keep our legislature informed of DOT activities. 2. A Airport information application to inform pilots of about airport runways, radio frequencies, services, contact information, current conditions, and weather forecasts for airports in Iowa. Both of these applications will run on either Android or iOS tablets and phones.
ID	Rural airport locations
KS	N/A
KY	ESRI Mobile App Maps for iOS, Android, and Windows Phone. o Traffic Counts o Project Archives o Active Highway Plan
LA	We are just now exploring developing applications for mobile devices.
MI	Projectwise on iPad: MiDrive
MO	The MoDOT Traveler Information Map app on the Apple App Store and Android Play
MT	Traveler Information system app for Android and Apple IOs
ND	ND ROADS - mobile application for Travel Information
NE	N/A
NM	NMROADS Devices- iPhones, Android
OR	Trucking Online http://www.oregontruckingonline.com/cf/MCAD/pubmetaentry/index.cfm
PA	The department is standardizing on iPads. Future projects will be seeking the use of this device for robust applications working with business partners and a hybrid approach for public facing apps.
SC	Maintenance Work Request - All
TN	Motorist info app for iOS and Android
UT	UDOT has developed a mobile Traffic application to allow the traveling public to inquire about current road conditions that could impact their travels via iPhones and Androids. A proposed project would provide the traveling public with a mobile application to allow them to enter problems with road, such as pot-holes, traffic signals not working, etc. This application would be for iPhones and Androids.
VA	511 Traffic Information Services; for iPhones and androids.
WY	Still in R&D

17) Does your agency provide applications for different mobile devices depending on whether the use is internal or external? If so, please identify the mobile devices targeted.

	Internal	External
AZ		iPads, iPhones, Android tablets
CA	None yet	Android and Apple. No Windows yet.
FL	Android	iPhone/iPad; Android
IA	Android or iOS tablets and phones	Android or iOS tablets and phones
KS	N/A	N/A
KY	We develop applications for use on Mapping-Grade GPS devices from Trimble (Juno, GeoXT and Yuma) as well as an iOS application which will mostly be used on the iPad. AgileAssets developed an app to run on the Motorola MC75 to utilize its barcode s	We use ESRI's Mobile App as an avenue to serve our web maps to mobile devices on iOS, Android and Windows Phone for public consumption.
MI	iPhone/ipad	
MO	none at this time	IOS and Android
MT	Android	Android and Apple, looking into Windows
NC	iPad, Windows Mobile Devices	
NE	No	No
NM	N/A	N/A
OR	No	No
PA	IPad	Any
UT	IPhones, iPads, and Androids	IPhones and Androids

18) Does your agency develop software for mobile devices to run on a single platform or multiple platforms? If so, please describe the tools and technologies used; if not, please so indicate.

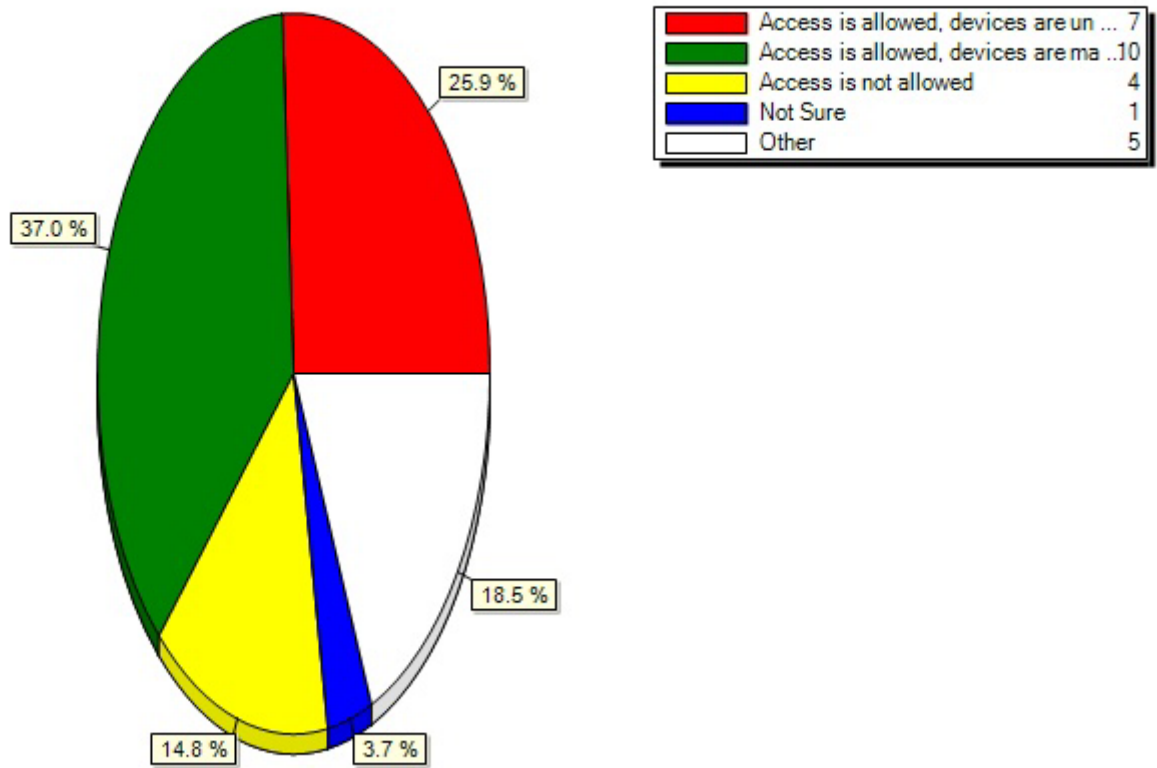
	Single platform tools and technologies	Multiple platform tools and technologies
AK	None	None
CA		HTML 5
FL	This work is currently contracted	This work is currently contracted
IA	None	Adobe Flash Builder and Adobe Creative Cloud
KS	N/A	N/A
KY	In its current state ESRI's ArcGIS for Mobile application only runs on Windows 6.1 and 6.5. As stated above we have various projects using this technology. This will be changing in the next year when they release the Configurable App strategy that will allow us to design projects for various platforms.	As stated above, we use ESRI's Mobile App as an avenue to serve our web maps to mobile devices on iOS, Android and Windows Phone for public consumption.
MB	Will be developing for iPads initially. Central agency (which does development and support) has not yet come to grips with Android platform fro security point of view.	
MI		web-based
MO	none	Contract out to Timmons
MT	Beginning development as a POC on android, also assessing which platform we will use for future development, no decision has been made yet	
NC	Single currently	
ND		We are developing for multiple platforms by creating browser based applications. The browser based applications are based off of JavaScript toolkits such as DoJo, jQuery, HTML 5 and ArcGIS API for JavaScript.
NE	No	No
NM	N/A	N/A
OR	No	Yes, see http://www.tripcheck.com/Pages/CamerasEntry.asp
PA	Languages - C, Java Web Services Device - IPad, MDM, Good	
SC	Developed to be device generic	Developed to be device generic
UT	PhoneGap, Apex: iPhones and Androids	C++ and Java: iPhones, iPads, and Androids
VA	htmls5	html5
WY	NA	NA

19) Does your agency allow personal mobile devices to access corporate email or applications? If so, does your agency manage employees' personal devices?

Possible answers were:

- Access is allowed, devices are unmanaged
- Access is allowed, devices are managed
- Access is not allowed
- Not Sure
- Other (please specify)

19) Does your agency allow personal mobile devices to access corporate email or applications? If so, does



Other Responses:

KY	MDM soon. No policy yet on personal devi
MB	Only Playbooks (personal) are allowed.
MT	Non windows devices are allowed to access
NC	for web based email/calendar
SC	devices do not connect to network
UT	Access to corporate email and application

20) Please describe your agency's current or planned usage of cloud computing or software as a service.

	Please describe your agency's current or planned usage of cloud computing or software as a service.
AK	This is application specific
AL	No plans for cloud computing or software as a service at this time.
AZ	Following with interest.
CA	Moving to a cloud based (Microsoft) email system. No other significant initiatives yet.
CO	Minimal but always looking for more opportunities
FL	Currently under consideration.
IA	Current cloud computing – AAMVA Certified Driver Verification, Address Validation Current SaaS – Enterprise Authentication and Authorization
ID	We use it when it is the most cost effective solutions
KS	None, however plans are in the works to adopt a private cloud offering on a statewide basis.
KY	KYTC had business servers only after 2006 consolidation. Now new consolidation will take remaining servers and staff. Cloud will be a definite option unless service improves substantially.
LA	The major applications that currently are used that are hosted off-site are LaGov SAP\ERP system and Agile Assets.
MB	Not sure. Central agency is blocking all DOT attempts to use "cloud" from within the DOT environment. Cannot access DropBox, Google Drive, SkyDrive, etc. Employees "cheat" using jump drives and home computers!
MI	Office 365
MO	Current: Bid letting; IT project management; Planned --future -(4 years) --email,
MT	No specific plans, the State of MT is part of a consortium of states that issued an RFP for cloud based GIS storage and we are in the process of assessing the use of that services. We also have a Fleet management system externally hosted.
NC	Using Esri AGOL
ND	No current use or planned usage of cloud computing
NE	Working with our Office of the CIO to move our e-mail system to their cloud environment. Rail Inventory system will be hosted by a third party. Our 511 system is hosted by a third party as well.
NM	NMDOT is currently not considering using the cloud
OR	Currently not used. Planning in process for cloud and software as a service via the central state data center.
PA	Department is always open to these concepts when they make most sense in TCO and ROI.
TN	Our central state IT department is our cloud provider
TX	We have several applications running in the cloud. We recently converted our email to Office 365. Our strategy is to use SaaS as much as practical.
UT	Research into this technology is currently underway to determine feasibility and pricing.
VA	Several public facing solutions are cloud based; several PPTA mega projects have cloud based portals;
WY	Currently using Google Gmail, Gcal and Gdocs.

21) Does your agency have an in-house developed application you consider best of breed that you would like to see shared with other agencies and/or developed into an AASHTOWare product? If so, please describe the application.

	Does your agency have an in-house developed application you consider best of breed that you would like to see shared with other agencies and/or developed into an AASHTOWare product? If so, please describe the application.
AK	No
AZ	1) Roadway Features Inventory: dynamic, robust, configurable system that allows field data collection; GIS integration. 2) Maintenance Management System: ERP for Maintenance that manages planning and execution and tracks labor, equipment and activities by location.
CA	Not really. Maybe Quickmap (Traveler Information). Go to www.dot.ca.gov to see it.
FL	Complaint/Issue Tracking System. MAINTAINS ESSENTIAL INFORMATION FOR TRACKING ALL CORRESPONDENCE RECEIVED BY AN OFFICE. CRITICAL DATES AND PERTINENT INFORMATION ARE RECORDED AND OVERDUE NOTICES FOR REPLIES ARE GENERATED.
IA	Not at this time.
KY	No on AASHTOWare but would collaborate with any state on development. Also, have several .Net C# applications in development including some on SharePoint platform. Examples Encroachment permits, rail crossings and utilities and ROW management systems (in progress).
LA	DOTD's Bidders Registration application allow interested bidders to sign up as Projected Bidders or Information Only bidders. It works with AASHTOWare Trns.port Preconstruction.
MI	MiBridge
MO	Transportation Management System
MT	Not at this time
MT	Not that I'm aware of.
NE	No
NM	No
OR	Trucking Online http://www.oregontruckingonline.com/cf/MCAD/pubmetaentry/index.cfm
SC	Integrated Transportation Management System
TN	Not yet
UT	Applications can be given to other State's upon request.
VA	We have several.

22) From an IT organization perspective, what specific areas would your agency like to see improved in AASHTOWare product delivery?

We wish to thank all agencies for their suggestions and input. Comments and further information is provided below on individual comments and suggestions.

	From an IT organization perspective, what specific areas would your agency like to see improved in AASHTOWare product delivery?	FY2013 Response
AK	No specific areas identified	
AL	No suggestions for improvement at this time.	
AZ	Transportation Asset Management - ability to make investment and project decisions across asset classes.	Asset management is recognized as a top priority within the DOTs. Investigations are currently being conducted to ascertain if/how AASHTOWare should be involved in this area; these investigations could result in efforts to provide better support of industry products or a new AASHTOWare product for example. The AASHTO Subcommittee on Asset Management is being used as a resource and included in the investigations.
FL	Code bugs.	The AASHTOWare program is attempting to better monitor and improve its processes and efforts to help reduce the number of bugs found in AASHTOWare code. In addition, member agencies are actively encouraged to participate in beta testing software prior to production release. For example, as part of the development of the web-based AASHTOWare Project software, member agency staff serving on Technical Review Teams are actively testing the software during the alpha phase of development to identify bugs as early in the software development process as possible.
IA	Quicker turnaround of product enhancements and fixes. Reduced license fees.	<p>The governance process for AASHTOWare software is geared toward reaching consensus among a number of states. This process can be time consuming, but ensures involvement of multiple stakeholders. A study was undertaken by AASHTO in 2009/2010 to look at streamlining the project proposal process. Recommendations were made and various ones implemented. Additional efforts such as increased use of contractor services, incorporation of third-party offerings, a review of organizational support structures, etc. to reduce the project proposal process and overall turnaround are being discussed at this time.</p> <p>AASHTOWare product license fees are proposed and set by state DOT persons sitting on the individual product task forces and oversight bodies. The license fees are set to support on-going maintenance, support, and enhancement of the product. Agencies should work through their product task forces to encourage the desired fee structure.</p> <p>Prices and pricing models are determined on a product by product basis by task forces, which are comprised of voting members from DOTs. This issue is discussed periodically, and leads to a number of other challenges including maintaining democratic and equal representation among member agencies. Many representatives from larger states want additional influence over product direction if their license fees are increased. Specific questions regarding prices should be directed to the appropriate task force</p>

ID	Integration of the applications, web based applications	The comment for development of web based applications has been provided to the task forces. Enhancements to individual products may be coordinated via the product's user group or product task force.
KS	We need an enhanced CMS offering that is web based and more configurable.	The development of a new web-based CMS is underway; release of the product is projected to be in late calendar year 2014 with the release of the AASHTOWare Project 3.00 software constituting the first production release of construction/materials functionality.
KY	Better spatial awareness tying information to real world coordinates and not just LRS.	A few agencies have expressed a desire to incorporate an increasing amount of spatial information in agency systems; however, most remain focused upon a LRS at this time. As we continue to look at how best to incorporate spatial awareness/data into our applications, we do welcome your further input and involvement in preparation of the ASIS agendas and other meetings
LA	This is not really "product delivery", as we are implementing Trns.port CRLMS and Preconstruction 2.02 we have a need for the database mapping between all the Trns.port system. This information is not readily available.	Additional detail, including source code and entity relationship diagrams, on many of the systems' architectures and designs are available through the product's [Project] Task Force and/or the AASHTO Project Manager. Please feel free to contact them directly regarding your needs.
MO	Mobile devices interface; cloud based; easier interface to other apps	These areas, and how best to deliver them, are constantly being discussed and implemented by the various task forces and committees. As an example, in the upcoming AASHTOWare Catalog, Project (Trns.port) and Bridge BrM (Pontis) will be offering opportunities for hosted services and hosted add on services.
NC	We'd like to see BAMS/DSS not require SAS software.	The AASHTOWare Project Task Force is currently overseeing work by the contractor, Info Tech, to work with a Technical Review Team of member agency subject matter experts to define the requirements for the replacement of the BAMS/DSS software product. As part of the project, the team is actively seeking solutions that do not require a SAS license.
ND	More Web applications	Some of the AASHTOWare products now offer web versions and/or components. Project (Trns.port) is most active in this effort and is moving most of its development to the web environment.
NE	Shorten the amount of time it takes for user enhancements to be implemented.	The governance process for AASHTOWare software is geared toward reaching consensus among a number of states. This process can be time consuming, but ensures involvement of multiple stakeholders. A study was undertaken by AASHTO in 2009/2010 to look at streamlining the project proposal process. Recommendations were made and various ones implemented. Additional efforts such as increased used of contractor services, incorporation of third-party offerings, a review of organizational support structures, etc. to reduce the project proposal process and overall turnaround are being discussed at this time.
NM	Currently, the delivery of the AASHTOWare products is working very well for us.	

PA	PONTIS	<p>A new version of Pontis (5.1.3), now branded Bridge BrM, is scheduled for release in April 2013. Version 5.1.3 incorporates inputs from the Element Migrator tool allowing agencies to more easily transition to use of NBEs/BMEs while also addressing a number of key user requests.</p> <p>Development of Pontis/BrM 5.2 is well underway with 23 agencies participating in the project directed by the Bridge Products Task Force and a 17 member Technical Review Team. Phase I provides an updated inspection methodology and is currently available in release 5.1.2. Phase II of BrM, which is underway, includes deterioration modeling, project planning, and bridge/project multi-objective analysis. Phase III, scheduled for release in January 2015 will provide a redesign of the BrM user interface database structure, and modules to support tracking and reporting on FHWA's 23 metrics.</p> <p>Agencies are encouraged to participate in the Bridge BrM 5.2 project solicitation and development process. Please contact the Bridge Task Force and/or the Bridge AASHTO Project Manager for additional details.</p>
UT	<p>Provide Web and email delivery functionality - Our Pontis customers have identified the following: The current bridge inspection system does not allow for reports or the QC/QA process to begin until the inspector uploads the inspection into the central database. In addition, any corrections to the inspection requires the generation of a new report using additional software other than the bridge inspection system. If the Bridge Inspection System were improved, once the inspection is complete, the inspector can upload the inspection via the web and the system will generate a complete report without the need of additional software. The system would then notify an individual via email that the inspection is complete and the inspection report is ready for a quality control review; thus streamlining the overall process. A bridge inspection QC reviewer would not have to wait for the inspector to return from the field before reviewing the report. The system would track the progress of the report and continue to notify the inspectors of the progress and the status of the report. The system will also provide instant feedback to the inspector on areas where an error could have occurred such as quantities or ratings and will automatically trigger and notify the Bridge Inspection Engineer and Bridge Operations Manager of critical findings. It appears that Pontis can be replaced for less cost than AASHTOWare will charge us to add the above enhancements.</p>	<p>Pontis is changing and your participating is welcome. (See the above response for PA / Pontis.)</p>
WY	No comment	

23) Please provide any additional information or comments desired; include any additional topics/questions that you would like to see added or changes you would like to see incorporated into this survey.

	Please provide any additional information or comments desired; include any additional topics/questions that you would like to see added or changes you would like to see incorporated into this survey.	Response / Comments
AK	None	
IA	Question 8 - We are still unsure at this time. Two of the reasons we are not sure today is that we do not know what the Iowa's state IT infrastructure consolidated costs will be, and we don't know what AASHTO's SaaS costs would be. Other factors are the level of difficulty to implement a SaaS configuration, complexity, staff resources needed, and integration with existing systems. Question 9 - - We are using Adobe LifeCycle (ALC). FileNet is an application that has been sunsetted at the Iowa DOT.	Acknowledged. Thank you for your answer and explanation.
KY	KYTC is a heavy user of SharePoint 2010 including as a development platform and would be interested in other states experiences including applications.	Thank you for your input. We will consider this topic for inclusion in future surveys and ASIS agendas.
MB	Regarding question #5, please note that the DOT (agency) does not do technical development or support. These services are provided (or not!) through a central IT agency.	Acknowledged. Thank you for your answer and explanation.
UT	Historically it has been helpful to see what platforms, languages and databases various states are using or planning to use. Also, security is increasingly becoming a major concern. It would be helpful to know what approaches and technologies other states are using to address this issue.	Thank you for your input. We will consider these security topics for inclusion in future surveys and ASIS agendas.
VA	I would like to see a robust CIO forum discussions on current relevant topics.	Thank you for your input. We welcome your further input and involvement in preparation of the ASIS agendas and meetings.
WY	No comment	

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