

e-Construction and Partnering Innovation Matrix By Technology

NOTE: Information in this table was obtained from publicly available sources (e.g. internet search, and presentations). Information was last updated 6/27/2019. Any corrections or updates may be sent to Kathryn.Weisner@dot.gov

Product or Practice	Bid History Analysis	Bid Letting Management and Estimates	Bid Preparation and Analysis	Collaboration Portal	Construction Management System	Digital Signatures	Document Management System	Electronic As-Builts (GPS/GIS/PDF red-lining)	Electronic Bidding and Bid Bonds	e-Ticketing	Lab Inventory and Materials Management System	Mobile Devices for Inspection	Partnering	Project Management System	Project References (e.g. plans; standards; manuals)	Quantity Measurements (real-time verification)	Fleet Management	Queries and Reports	Virtual Meetings	Auto-Material Tracking (RFID/Bar-Coding)	Legend
																					NA
AASHTO BAMS/DSS	AL; AK; AR; CA; CO; CT; DE; FL; GA; IA; ID; IN; KS; KY; LA; ME; MD; MI; MN; MS; MO; MT; NE; NJ; NM; NY; NC; OH; OK; OR; SC; TN; TX; VA; WV; WI	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	AASHTO individual software module used to analyze long-term bidding patterns. It is offered either as a desktop platform or a multi-tier client/server architecture.
AASHTO CAS	NA	NA	NA	NA	GA; ID; IN; ME; MD; MI; VA; WI	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Older AASHTO software used for contract administration.
AASHTO Civil Rights and Labor Management System (CRLMS)	NA	NA	NA	NA	AK; IN; KS; KY; LA; MN; MS; MO; MT; NJ; NC; OH; SC; TN; VA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Web-based application used to receive and process information for meeting federal and state requirements for civil rights and labor compliance. Because this is a contract administration task, it is included on the list of construction management systems.
AASHTO Construction and Materials	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	KS; MN	NA	NA	NA	NA	NA	NA	NA	NA	NA	AASHTO Project Construction and Materials combines the functionality of multiple individual modules including: CAS, SiteManager, SiteXchange, FieldManager, and FieldNet. Many of the states currently using any of these individual projects are evaluating the entire suite as it is a web-based solution that enables the use of mobile devices. The software offers the functionality to do construction management tasks, inspection reporting, and material management.
AASHTO PES/LAS	NA	DE; IA; NM; NY; OK; OR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	AASHTO software module used for bid preparation and bid letting management and award. AASHTO Preconstruction is replacing this product with enhanced functionality.
AASHTO Project Bids	NA	NA	AK; AR; CO; FL; GA; ID; KS; KY; LA; MD; MI; MN; MO; MT; NE; NJ; NY; ND; OH; OK; OR; WV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	AASHTO software module used to prepare bid proposals, and allow bidders to download the bid line item to enter their bids electronically in a secure manner. The owner then uses the software to analyze the bids submitted by the bidders. Project Bids is an improved product that will replace the popular Expedite software.
AASHTO Project Cost Estimation	NA	AR; DE; GA; IN; LA; MN; OH	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	AASHTO software module used to prepare project planning and engineer's estimates.
AASHTO Project Estimation	NA	MT; NJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	AASHTO Project Estimation is a comprehensive web-based solution that combines the functionality of Project Cost Estimation, Estimator and TRACER.
AASHTO Project Estimator	NA	AL; CT; ID; IN; KY; ME; MD; MN; MS; MO; NM; NY; OH; OK; OR; SC; TX; VT; VA; WI	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	AASHTO software offered as a stand-alone program for cost estimation.
AASHTO Project Expedite	NA	NA	AL; AZ; CA; CT; DE; IN; IA; ME; MA; MS; NM; NC; PA; SC; TN; VT; VA; WA; WI; Washington D.C.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Software has been around for years and it is used to prepare bid proposals, and allow bidders to download the bid line item to enter their bids electronically in a secure manner. The owner then uses the software to analyze the bids submitted by the bidders.
AASHTO Project FieldManager	NA	NA	NA	NA	IA; ME; MI; NV; VT; WI	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	AASHTO software module used for construction management. Module integrates with the AASHTO software modules: FieldBook, and FieldNet. This suite is no longer available as a new license.
AASHTO Project FieldNet	NA	NA	NA	NA	MI; WI	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	AASHTO software module used to interface between the field and the office using the FieldManager suite.
AASHTO Project Preconstruction	NA	AL; AK; AR; CO; CT; FL; GA; ID; IN; KS; KY; LA; MD; MI; MN; MS; MO; MT; NE; NJ; NC; OH; SC; TN; VA; WV; WI	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	This software is used to enable cost information tracking and management. This module combines the features from older separate programs such as PES/LAS.

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																					NA	Not Applicable
AASHTO Project SiteManager	NA	NA	NA	NA	AK; AR; CO; CT; FL; GA; ID; IN; KS; KY; LA; MN; MS; MO; MT; NE; NJ; NM; NY; OH; OK; SC; TN; TX; VT; VA; WV	NA	NA	NA	NA	NA	NJ; VT	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	AASHTO software comprehensive module used for construction management. It can be used by construction and materials staff to enter and access information. This module is being replaced by the Construction and Materials web-based solution and no longer available to new licensees.
AASHTO Project SiteXchange	NA	NA	NA	NA	IN; IA; KY; NE; OH; OK; TN	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	AASHTO software module used to allow contractors to enter subcontractor information directly into the system upon contract award.
AASHTO Project TRACER	NA	OR; WY	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	AASHTO software module called the Transportation Cost Estimator is used for parametric cost estimation during the planning process.
AASHTO SYNC Service	NA	NA	NA	NA	CT; KY; LA; ME; MI; MN; MO; NV; NY; OK; TX; WI	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	This service is offered by AASHTO to sync third party mobile applications to many of their construction management systems, such as SiteManager and FieldManager. It is often used with Mobile Inspector or Headlight.
Adobe Connect	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	IA	NA	NA	This is a web conferencing software service that offers functionality for online meeting for real-time collaboration, virtual classrooms, or large scale webinars.
Adobe Digital Signatures	NA	NA	NA	NA	NA	CO; MO; VA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	e-Signature service using Adobe digital IDs.
Aurigo Masterworks	NA	NA	NA	NA	UT; WI	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	This is a comprehensive construction management system offered as a cloud-based service and has multiple modules that provide specific functionality for program management, contract administration, daily inspector reports, etc.
Aurigo Masterworks Mobile Inspection App	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	This is the companion mobile application to enter daily inspector reports via the cloud-based system from the field using a mobile device.
Autodesk BIM 360 Docs	NA	NA	NA	WI	NA	NA	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	This is a cloud-based solution for project document management that integrated with other Autodesk BIM 360 modules.
Autodesk BIM 360 Field	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	FL; WI	NA	NA	NA	NA	NA	NA	NA	NA	NA	This is a cloud-based solution for daily inspector reports for mobile devices.
Autodesk BIM 360 Glue	NA	NA	NA	WI	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	This is a cloud-based solution for real-time project collaboration to review 3D models and plan sheets. Comments from all the reviewers are aggregated and tracked.
Bar Codes/RFID	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	IN; NC	NA	Radio frequency identification (RFID) is used to passively track materials or items while bar codes are used to scan information into a centralized system.
Bentley OpenRoads Navigator	NA	NA	NA	IN; UT	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	This is a cloud-based solution for real-time project collaboration to review 3D models and plan sheets.
BidExpress	NA	NA	NA	NA	NA	NA	NA	NA	AL; AK; AZ; AR; CA; CO; CT; FL; GA; ID; IN; IA; IL; KS; KY; LA; MD; ME; MA; MI; MN; MS; MO; MT; NC; NE; NJ; NY; ND; OH; OK; OR; PA; SC; TN; TX; UT; VT; VA; WA; WV; WI;	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Electronic bidding service to manage bid solicitation and online bidding. The software provider serves as the digital certificate authority and may offer bid bond verification services through agreements with surety companies.	
Bluebeam Revu	NA	NA	NA	CT; FL; ID; KS; LA; ME; MI; MO; OH; VA; WI	NA	NA	NA	CT; GA; MO	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Cloud-based solution for real-time project collaboration to review 2 or 3D PDFs. Comments are logged and tracked. Software is also a full PDF editor, and is often used for marking up plans for collaboration or for as-built records.

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Citrix	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	AZ; FL; KY; MN; MO; SC; TX; VA	NA	NA	NA	NA	NA	NA	NA	NA	Remote desktop software used to access either desktop or server clients from a mobile device or computer outside of the network firewall.
Collector for ArcGIS/Survey 123	NA	NA	NA	NA	NA	NA	NA	AL; IN; IA; MN; OH; PA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	GIS mobile application used to collect and update geospatial information in the field. It works either online or offline. It is available for iOS, Android, and Windows operating systems.
CoSign	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Digital signature services.
Custom Application	NA	HI	NA	AZ; MD; PA	AL; AZ; IL; MA; PA	NA	AK; AZ; GA; IL; IN; MA; ME; MN; PA	NA	NA	NA	AL; AZ; IL; IA; MD; PA	NA	NA	GA; LA; NJ	IA; MD; MN; PA	NA	NA	AK; GA; LA; NJ	NA	NA	Most common custom applications are for electronic document, and for construction and material management systems.
DocExpress	NA	NA	NA	NA	NA	AR; IA; ME; MT; NH; OR; VT	AR; IA; ME; MT; NH; NY; OR; VT	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Cloud-based solution to manage documents and offers the functionality to use digital signatures on the documents stored within the system.
DocuSign	NA	NA	NA	NA	NA	CT; GA; MI; MO; NE; OH; TX; WI	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Digital signature services.
e-Builder	NA	NA	NA	AR; AZ; NJ	AR; AZ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	AK; GA; NJ	NA	NA	NA	NA	This is a comprehensive construction management system offered as a cloud-based service and has multiple modules that provide specific functionality for program management, contract administration, daily inspector reports, etc. Services also includes electronic bidding.
ePersona	NA	NA	NA	NA	NA	LA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Digital signature services.
EquipmentWatch	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	AL; NE; OH; TX	NA	NA	NA	Software solution that provides data for construction equipment, in specific costs, values/prices, year verification, rental rates and more. Software was previously known as Rental Rate Blue Book.
ExeVision	NA	IL	NA	NA	NA	NA	NA	NA	IL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	This is a comprehensive construction management system offered as a cloud-based service and has multiple modules that provide specific functionality for program management, contract administration, daily inspector reports, etc. Service also includes electronic bidding.
FaceTime	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	MI	NA	Video chatting app available through iOS.
Falcon DMS	NA	NA	NA	NA	NA	NA	CA; LA; NJ; OH; RI; SC; VA; WY	NA	NA	NA	NA	NA	NA	NA	AL	NA	NA	NA	NA	NA	Document management system. This software is highly customizable and it can integrate with other document management systems such as SharePoint and ProjectWise, and GIS. The system can be also customized to serve as project reference websites.
Field Interviewer	NA	NA	NA	NA	KS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	No comments
Fleetwatcher	NA	NA	NA	NA	NA	NA	NA	NA	NA	AL; FL; IA; KY; PA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Software that uses wireless telematics and GPS technology to manage trucking operations and materials delivery.
GPS Outline	NA	NA	NA	NA	NA	NA	NA	IA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Mobile application that uses GPS technology to locate geospatial positions.
GPS Rovers	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	CT; KY; MI; MN; MO; NM; NY; OR; SC; UT	NA	NA	NA	NA	High precision surveying GPS equipment used for collecting data points and features used to measure quantities and verify location of as-built conditions.
Headlight	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	CA; CO; ID; IL; LA; MN; TX; VA; WA	NA	NA	NA	NA	NA	NA	NA	NA	Mobile application specifically designed for daily inspector reporting. It uses open data protocols so that it can tie to any non-proprietary database. It is compatible with SiteManager and Oracle databases.
Hummingbird	NA	NA	NA	NA	NA	NA	FL	NA	NA	NA	NA	NA	NA	NA	FL	NA	NA	NA	NA	NA	Document management system. This software is highly customizable and it can integrate with other document management systems such as SharePoint and ProjectWise, and GIS. The system can be also customized to serve as project reference websites.
IdenTrust	NA	NA	NA	NA	NA	FL; LA; VA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Digital signature services.

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																					NA Not Applicable	
InEight Model Suite	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	This is a cloud-based solution for real-time project collaboration to review 3D models and plan sheets. The mobile application can be used to review plans and 3D models in the field, or to connect the model elements to project management systems that have schedules and cost information (e.g. Oracle P6).
Interchange	NA	NA	NA	UT	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Document management system that integrates with SharePoint for enhanced capabilities.
iPads	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	AL; CA; DE; FL; IA; IN; KY; ME; MI; MN; NM; OR; PA; TX; UT; VA; WI	NA	NA	NA	NA	NA	NA	NA	NA	NA	Mobile device
iStrada	NA	NA	NA	NA	NA	NA	NA	NA	NA	IA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	e-ticketing solution for concrete delivery management.
Microsoft Project	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	HI	NA	NA	NA	NA	NA	NA	NA	Project management system used to track schedules and resources.
Mobile Inspector	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	CT; KS; KY; LA; ME; MI; MN; MO; NV; NY; TX; UT; VT; WI	NA	NA	NA	NA	NA	NA	NA	NA	NA	Mobile application specifically designed for daily inspector reporting. It uses open data protocols so that it can tie to any non-proprietary database. It is compatible with SiteManager and Oracle databases.
OnBase	NA	NA	NA	NA	NA	NA	NE; WI	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Cloud-based content and document management solution.
Oracle P6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	AL; DE; MA	NA	NA	NA	NA	NA	NA	NA	Project scheduling software.
Partnering - ACM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	AK; AZ; CA; CO; DE; FL; GA; ID; ME; MD; MI; MN; MS; MO; MT; NJ; NY; NC; OH; OR; PA; SC; TN; TX; UT; VT; VA; WV; WA; WI	NA	NA	NA	NA	NA	NA	NA	Modern partnering practice used in transportation projects to manage risk and accelerate timelines.	
Partnering - CPP	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	AK; AZ; CA; CO; DE; FL; GA; ID; IN; IA; MA; MN; OH; PA; SC; TX; VT; VA	NA	NA	NA	NA	NA	NA	NA	Modern partnering practices in which the owner and the contractor come to an agreement for mutual benefits during contract construction negotiations and throughout the life of the project. More modern practices involved risk-based and programmatic solutions.	
PDF Expert	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	MI	NA	NA	NA	NA	NA	NA	NA	NA	NA	PDF editing app for iOS.
PlanGrid	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	CA; CO; RI; TN; VA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Cloud-based solution designed for field construction productivity. It can be used as a construction management solution or simply as a daily inspector reporting and project reference tool. Consultants in CA use PlanGrid on alternative delivery projects. VA is evaluating the use of PlanGrid.
ProjectSolve	NA	NA	NA	FL	NA	NA	FL	NA	NA	NA	NA	NA	NA	NA	FL	NA	NA	NA	NA	NA	NA	Cloud-based project collaboration portal that serves as a document management solution during the life of a project.
ProjectWise	NA	NA	NA	NA	NA	NA	CO; CT; DE; GA; ID; IL; IN; IA; KS; KY; LA; MA; MD; MI; MN; MS; MO; NE; NV; NJ; NY; OR; RI; SC; TX; UT; VA; WA; WV; WY	NA	NA	NA	NA	NA	NA	NA	GA; MI	NA	NA	NA	NA	NA	NA	Document management system specifically designed for engineering drawings.
Right Signature	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Digital signature services.
SharePoint	NA	NA	NA	CO; DE; IN; LA; MN; MO; NC; OH; VA; WI	NA	NA	CO; IN; LA; MN; MO; NC; OH; SC; VA; WA; WI	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Cloud-based project collaboration portal that serves as a document management solution during the life of a project.
SurePath	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	AZ; AR; CA; CO; FL; GA; ID; IL; IN; IA; KA; KY; LA; ME; MD; MA; SD	NA	NA	NA	NA	NA	NA	NA	NA	NA	Electronic bid bond verification service.

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Surety 2000	NA	NA	NA	NA	NA	NA	NA	NA	CA; SD	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Electronic bid bond verification service.
Unmanned Aircraft Systems	NA	NA	NA	NA	NA	NA	NA	UT	NA	NA	NA	NA	NA	NA	NA	AL; MN; OR; UT	NA	NA	NA	NA	NA	System composed of an unmanned aircraft controlled from a ground-based pilot that uses a communication system between the base and the aircraft. It is used for collecting digital images, which are then post-processed using low photogrammetry algorithms to produce a 3D surface and other 3D features. This information can be used for creating as-built records or to measure progress quantities.
Windows Tablets	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	AZ; AR; CO; GA; IN; ME; MI; MO; OH; NE; PR; SC;	NA	NA	NA	NA	NA	NA	NA	NA	NA	Mobile devices that run on the Windows operating system.