Source: Getty Images.

Learn more

To get information about how your State can innovate its operations with advanced digital construction management systems, visit fhwa.dot.gov/construction/adcms/ or email digitalconstruction@dot.gov.

Get started

Reach out to discover how to build a highway construction workforce in your State.

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U.S. Department of Transportation
Federal Highway Administration

Strategic Workforce Development

Focus on Innovation:
Advanced Digital Construction Management Systems

Every Day Counts
Innovation for a Nation on the Move

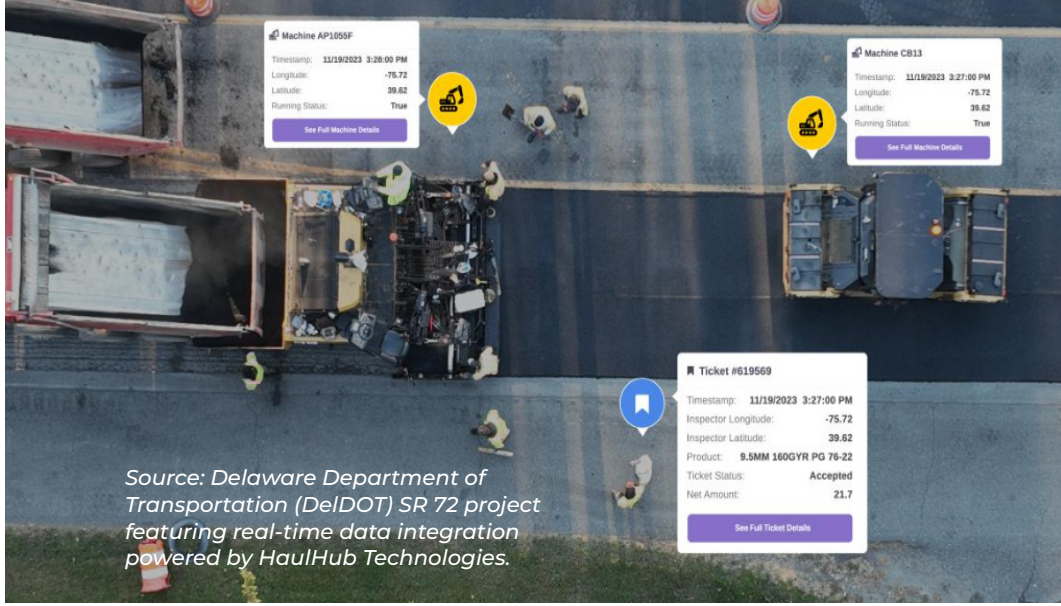
Source: Getty Images.

Advanced Digital Construction Management Systems (ADCMS) are technologies and processes that include systems for infrastructure planning and coordination, design, construction, maintenance, modernization and management, and asset management. Through its ADCMS Program, the Federal Highway Administration (FHWA) offers grants to help States adopt advanced technology that can be used throughout various parts of the construction lifecycle.

Alaska's unmanned aerial systems bring innovation to workflow processes

The Alaska Department of Transportation (DOT) uses unmanned aerial systems (UAS) to conduct operations that are beyond the visual line of sight more easily, plus develop and utilize remote dock workflows. With UAS technology, the Alaska DOT has provided site visits to remote docks that include satellite internet systems, off-grid power, and edge computing systems.

Source: FHWA



Source: Delaware Department of Transportation (DelDOT) SR 72 project featuring real-time data integration powered by HaulHub Technologies.

Texas improves operational efficiency with digital delivery

The Texas Department of Transportation (TxDOT) uses digital software, hardware, and processes to streamline operations by sharing data and 3-D construction models. With digital data-driven decision making, TxDOT can achieve efficiencies across the project lifecycle, support asset management, and provide a safe and resilient transportation system for the public.

Delaware increases safety with integrated, data-driven project management and UAS technology

The Delaware Department of Transportation (DelDOT) transitioned to a digital, centralized data management system that it uses to collect and integrate construction material and equipment data to share with crews and communicate with the public. DelDOT employs UAS technology to help crews quickly identify, adapt, and respond to issues.