



La DOTD FAST FACTS

- 650+ active users in the field, office, and lab
- 18k miles of roadway
- 12,733 bridges

CLIENT GOALS

- Improve efficiency and quality of infrastructure
- Reduce project backlog and increase multimodality
- Modernize inspection processes
- Reduce project delays
- Improve risk mitigation
- Increase interdepartmental collaboration and communication

ROI

- 117,000 hours per year of gained productivity
- 200% more job site information collected
- 75% reduction in claims on La DOTD projects using Fieldbook
- \$300k annual savings in technology costs

HEADLIGHT PRODUCTS

- Fieldbook
- Portal
- Tracker
- LiveConnect

Driving Productivity through Digital Delivery Initiatives

Unifying teams to deliver quality infrastructure



Louisiana Department of Transportation and Development's (La DOTD) core mission is to deliver a safe and innovative multimodal transportation and infrastructure system. To achieve this mission, they are looking to technology to help improve efficiency and quality across all projects.

A growing need to do more with less

Now more than ever, Owners answer to more stakeholders and projects are under increased scrutiny. Yet construction teams generally use paper-based processes or are stuck with inflexible legacy systems - constricting the speed of getting information from the field. Legacy systems lack the flexibility needed for today's delivery methods and workforce. Organizations will be increasingly faced with the question of how to extract decades worth of development and honing of skills as baby boomers retire.



In order to bridge the gap between a reduced workforce and an increasing amount of work, the La DOTD turned to modern technology to support its teams. The La DOTD set forth the following goals:

- Leverage modern technology to streamline workflows, enabling the department to do more with less.
- Improve project oversight and confidence in the data.
- Improve interdepartmental collaboration and communication.
- Effectively leverage the mass amounts of data collected to provide key insights quickly.

“It is critical that our employees are equipped with tools that enable them to do their jobs more effectively. Not only do we need to ensure all infrastructure projects are safe, but we want to execute them efficiently, so we minimize disruptions to residents and spend taxpayer dollars responsibly.”

- Shawn Wilson,
Secretary, Louisiana DOTD

Essential Tools for a Modern Workforce

The construction industry as a whole is facing a major problem: a scarcity of skilled infrastructure workers. Over 40% of the current workforce is expected to be retired by 2031 according to the National Center for Construction Education and Research.

In fact, [research from Deloitte](#) highlights the growing need for more effective processes to retain the vast amounts of historical knowledge of Baby Boomers before they retire. The department's adoption of modernized technologies, such as Fieldbook, has proven key to preserving decades'-worth of valuable industry knowledge and facilitated simple knowledge transfer.

“Minimizing the shock of the Baby Boomer exodus is not only about talent acquisition, it's also about a very considerable amount of knowledge transfer.”

- Deloitte

Fieldbook's speed of collaboration means fewer people can do more. It accelerates completing repetitive tasks which saves time and money while reducing errors. Inspectors, both new and seasoned, can get up to speed faster on new jobs and easily be productive from day 1 with data continuity and searchability.

Proof of Performance

Projects that provide all stakeholders transparency are more likely to deliver an infrastructure project on time, on budget, and of quality. While Fieldbook streamlines the inspection work, Portal provides project owners with a real-time window to project data. This easy validation of project details builds trust among all stakeholders.

The La DOTD oversees hundreds of projects covering thousands of square miles. Detailed visual documentation from the field enables a smaller number of experienced inspectors to review project progress more frequently without increased trips to the jobsite. By mandating a consistent field inspection and data collection process, the department is able to track project progress, ensure compliance with project requirements, and have confidence in the project's quality.



Saying Goodbye to Data Silos

Data plays a crucial role in guiding effective and sustainable decisions as well as communicating the value of work done. By integrating HeadLight as part of the DOT's tech stack, bi-directional data flows seamlessly to provide teams with only the most relevant yet holistic information. The La DOTD was able to eliminate data silos by integrating Fieldbook-generated data with existing databases, reinforcing the confidence that decisions are based on accurate data.

Project Success

Project inspectors using HeadLight provide more consistent observations and data than traditional paper-based processes. The La DOTD has seen a 200% increase in relevant project data collected. In addition, the automation of Daily Work Reports has resulted in submission rate improvements of up to 66% completed within 24 hours and up to 82% completed within 72 hours.

These productivity gains have allowed scarce inspector resources to cover more projects, while the increased data being collected has increased the speed of decision-making, has improved collaboration between the job site and office, and has reduced travel. The net result is a reduction in claims that saves valuable tax dollars and increases the quality of projects.

Learn how HeadLight connects the field and office with real-time data and improves the oversight capacity for **Owners**.

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