MOBILE TECHNOLOGY for Road-Owning Government Agencies

A solution for easier, more effective, and less-costly project inspections in the field

George White, CEO

paviasystems
WELCOME

Agenda

- Project Inspection: Challenges and Opportunities
- Pilot with WSDOT, TXDOT and MNDOT
- HeadLight Solution
- Live Demo
- Research Results
TRANSPORTATION INFRASTRUCTURE IS FUNDAMENTAL TO OUR WAY OF LIFE.

Why we do what we do...
TECHNOLOGY IS MAKING US MORE EFFICIENT!

Imagine if someone took away your navigation systems and left you with only a paper map…
OUR MISSION

To **transform** the **capabilities** of organizations in the **transportation industry** through the practical use of remarkable technologies.
FACT: Project inspection is a big job and a crucial function that directly impacts the quality of the infrastructure we build and all depend on . . .
CURRENT CHALLENGES:

• Paper-based inspection process
• Sharing information
• Commuting time
• Lack of onsite calculations
• Lack of critical current weather data
• Connectivity issues in the field
• Time and location of information
“I have to carry my rain-write notebook. I have to look at the time and correlate it to my observations. Then I have to get on my computer and change the weather, date, bid items, personnel, etc. You have to look at your notes, remember what you did out in the field, and then type it all up. I won’t be able to get to my IDRs until next week and I probably will lose some content for those two days. I have good notes but you don’t always remember everything.”

– Project Inspector, WSDOT
“I have to dedicate 30 minutes to 2 hours to recreate an IDR. Large portion of overtime is travel time or reports. All observations have to be collected in the field regardless of where you do the IDR.”

– Project Inspector, WSDOT
DO YOU BELIEVE …

Your agency must build the best, safest transportation infrastructure for the traveling public without wasting taxpayer dollars?

WE BELIEVE that challenging the status quo is the only way to deliver transportation infrastructure projects in more effective ways.
MOBILE TECHNOLOGY CAN OFFER:

• Superior data collection
• Seamless document creation
• Real-time project updates and notifications
• Integrated photo, video capabilities
• Integrated location and timestamp information
• Immediate eSignature capability
•Disconnected environment support
• Centralized repository for information
Introducing: An answer to better project inspection
Demo: Experience the benefits of mobile technology with our live demonstration.
CUSTOMER FIELD EXPERIENCE:
Three DOTs from the states of Washington, Minnesota and Texas participated in a three month-long pilot of HeadLight
## REAL WORLD PROJECTS

Used on 31 projects totaling approximately $800,000,000

<table>
<thead>
<tr>
<th>AGENCY</th>
<th>PROJECT COUNT</th>
<th>PROJECT BUDGETS</th>
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<tr>
<td>WSDOT</td>
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<td>$24,676,814</td>
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<tr>
<td>Minnesota DOT</td>
<td>17</td>
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<tr>
<td>Texas DOT</td>
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CUSTOMER EXPERIENCE:

Pilot proved that HeadLight makes inspectors more efficient and their jobs easier

- Average time savings of 1.78 hours
- Inspectors collected 275% more data
- Time and location metadata with every observation
- Improved timeliness of inspection information availability
Immediate success for users in customer experience pilot of HeadLight

- User rating of 4.6 out of 5 for recommending use of HeadLight to peers
- 100% of inspectors preferred to create and submit inspection reports using HeadLight vs. traditional process
- Inspectors found it easy and quick to perform inspection tasks
- 91% of inspectors prefer to have HeadLight on jobsite compared to a laptop

PILOT SUCCESS!
SAVE TIME AND MONEY…

“Using HeadLight, I can’t tell you how much more time efficient it is. I can do my job a lot easier without having to run back and forth, which takes gas and driving time, it’s costing the tax payer.”

– Project Inspector, TxDOT
REAL-TIME INFO AVAILABILITY

“I can resolve issues right away, vs. waiting 2-3 days. [HeadLight] allows me to make decisions from wherever I am.”

–Area Engineer, TxDOT
MORE TIME ON-SITE

“Total time savings in a day, 2 hours a day. Then can spend that time watching your crew instead of other unnecessary activities.”

- Project Inspector, TxDOT
TIME SAVED + REAL SAVINGS

Productivity value calculation from pilot findings

Avg. hourly rate for TxDOT Inspector: $28.69
Extra work effort eliminated daily: 1.78 hours/day
5 working days per week: 8.9 hours/week
4.3 weeks per month: 38.3 hours/month

Monthly productivity gain per TxDOT inspector: $1,097.96

TxDOT salaries obtained from http://salaries.texastribune.org/
A MORE EFFECTIVE WORKFORCE

Over $1,100,000 per month gained in inspector productivity for TxDOT!
HEADLIGHT BENEFITS FOR TODAY & TOMORROW:

Today it offers:
• Productivity gains
• Less expensive inspection data collection
• Easy capture and sharing of information
• Time saved in travel and downloading information
• Integration points into your existing processes

Tomorrow it will provide:
• Big savings in claims abatement
• Cradle to grave accountability
• Astounding business intelligence visibility
• Better network level outcomes in service to your taxpayers
IF YOU BELIEVE ...

Your agency must build the best, safest transportation infrastructure for the traveling public without wasting taxpayer dollars.

...THEN YOU CAN’T AFFORD TO NOT TO EXPLORE MOBILE TECHNOLOGY.
CHALLENGE THE STATUS QUO.

Help them do what they do best by using mobile technology tools for inspection.

“Tell me one thing a car can do that a horse can’t!”
– Bert Chase, Anti-Automobile Society of New York 1907
Thank you!

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