

MOBILE TECHNOLOGY for Road-Owning Government Agencies

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

George White, CEO


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WELCOME

Agenda

- Project Inspection: Challenges and Opportunities
- Pilot with WSDOT, TXDOT and MNDOT
- HeadLight Solution
- Live Demo
- Research Results



An aerial photograph of a city highway interchange at dusk. The sky is a mix of orange, yellow, and blue. The highway has multiple lanes with cars visible. In the background, there are city buildings and some greenery. The text is overlaid on the left side of the image.

TRANSPORTATION INFRASTRUCTURE IS FUNDAMENTAL TO OUR WAY OF LIFE.

Why we do what we do...

A photograph of a man and a woman inside a car. The man is in the driver's seat, looking at a large, unfolded paper map that is spread across the front of the car. The woman is in the passenger seat, also looking at the map. The car's interior, including the steering wheel and rearview mirror, is visible. The background shows a road and some greenery.

TECHNOLOGY IS MAKING US MORE EFFICIENT!

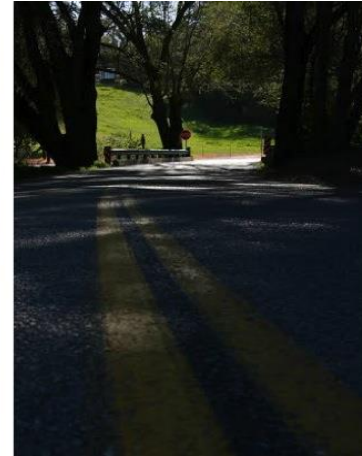
Imagine if someone took away your navigation systems and left you with only a paper map...

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:

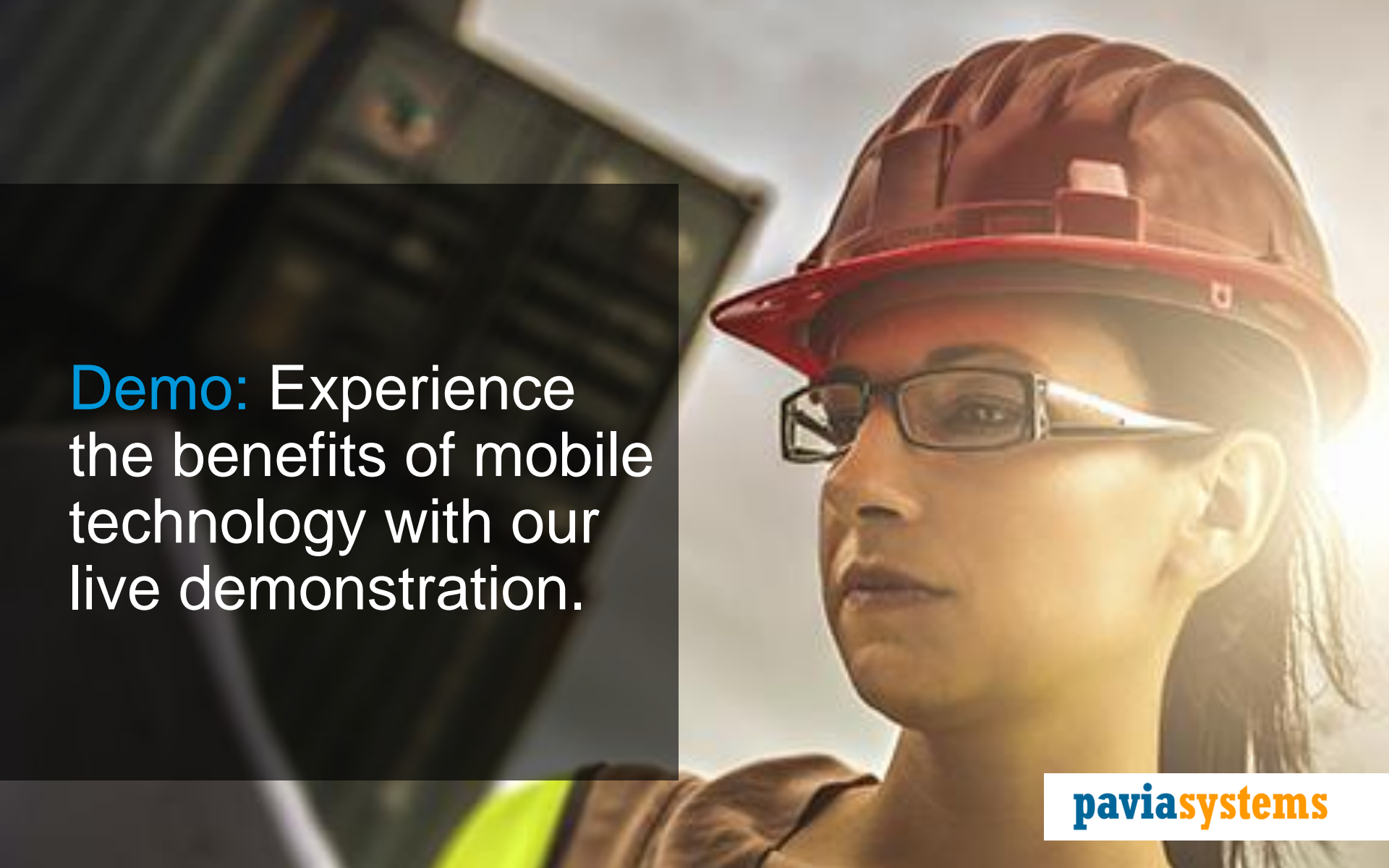
- Superior data collection
- Seamless document creation
- Real-time project updates and notifications
- Integrated photo, video capabilities
- Integrated location and timestamp information
- Immediate eSignature capability
- Disconnected environment support
- Centralized repository for information





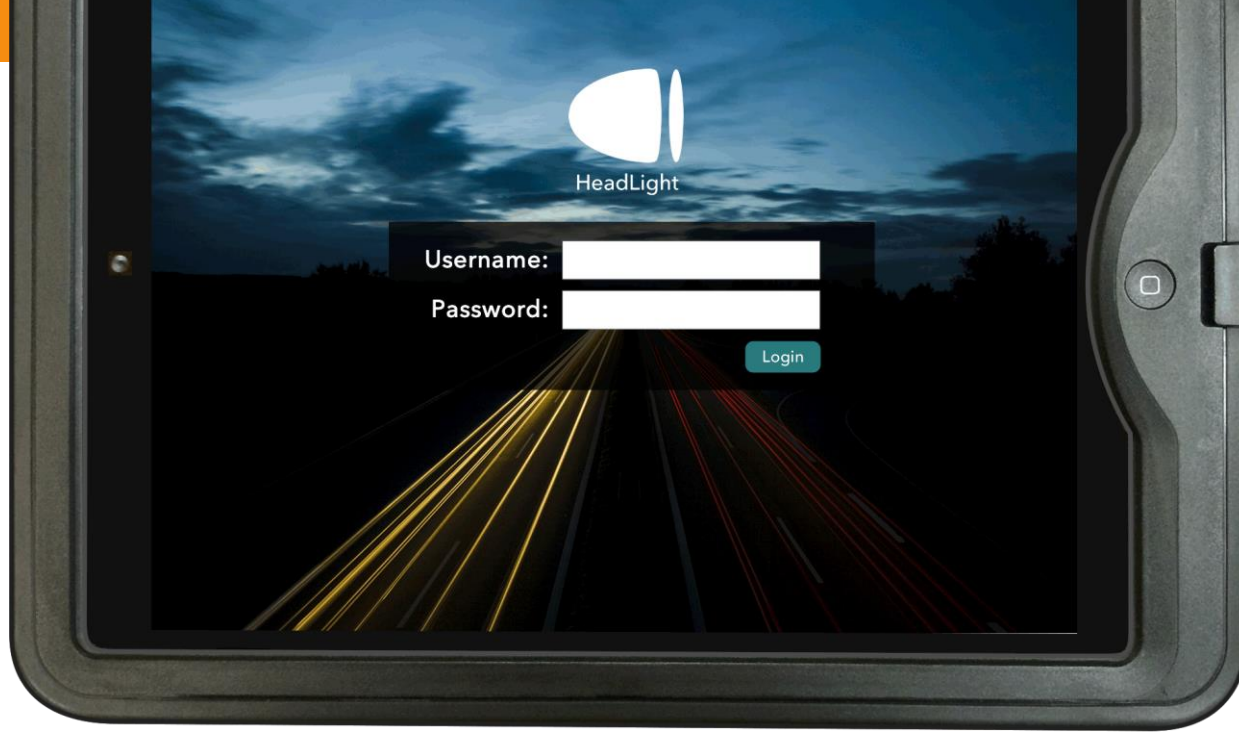
Introducing: An answer
to better project inspection



A woman wearing a red hard hat and safety glasses is looking at a tablet. The background is a blurred industrial setting. The text is overlaid on the left side of the image.

Demo: Experience
the benefits of mobile
technology with our
live demonstration.

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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

AGENCY	PROJECT COUNT	PROJECT BUDGETS
	7	\$24,676,814
	17	\$273,899,096
	7	\$501,055,413

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

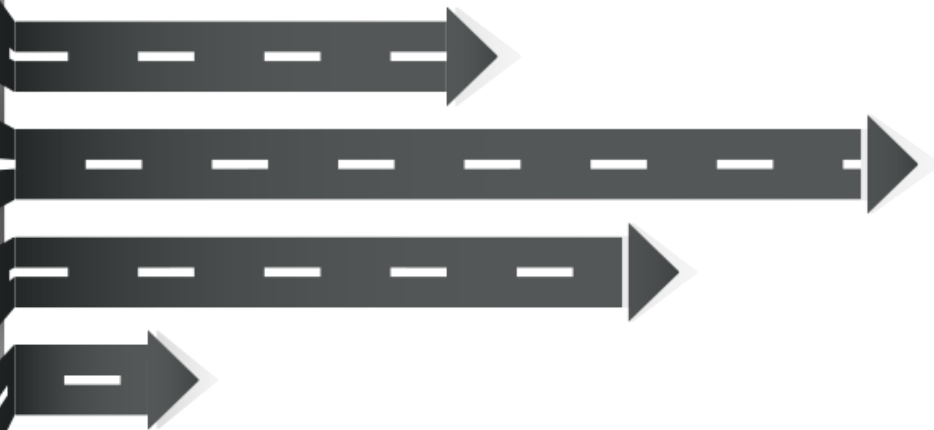
User rating of **4.6 out of 5**
for recommending use of
HeadLight to peers

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!



**Immediate success for users
in customer experience pilot
of HeadLight**



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**



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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



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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



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TIME SAVED + REAL SAVINGS

Productivity value calculation from pilot findings

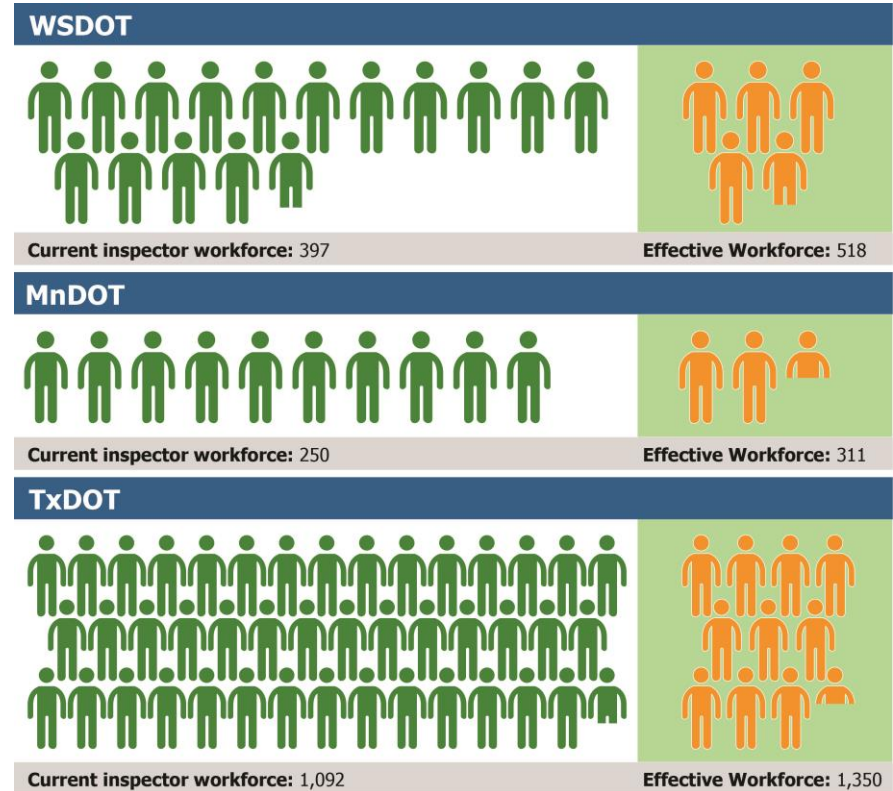
Avg. hourly rate for TxDOT Inspector:	\$28.69
Extra work effort eliminated daily:	1.78 hours/day
5 working days per week:	8.9 hours/week
<u>4.3 weeks per month:</u>	<u>38.3 hours/month</u>

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!

Contact Information

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