

How AI is Revolutionizing the Asphalt Industry:

Real World Applications
in Times of Change



Bryce Wuori
CEO/Co-Founder
Pavewise

20+ Years
Industry Experience

3000+ miles
Roads Paved
across 43 states

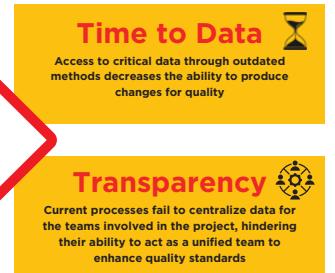
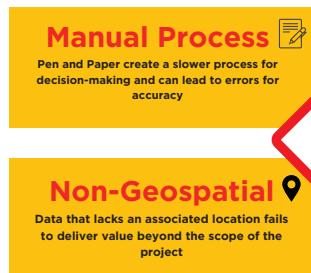


SEAUPG
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Change will Happen



Factors Driving Change in Construction

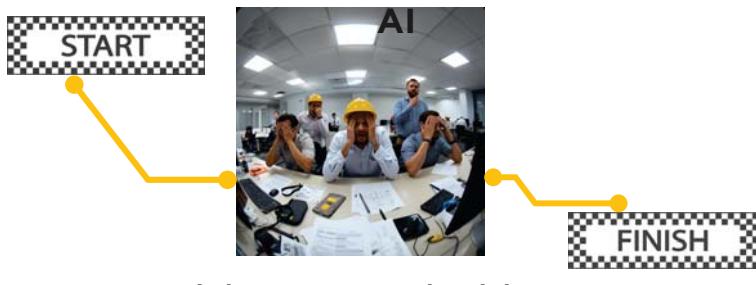


Biggest Driver of Change



What is AI in
Construction?

The Case Against Fearing



Why AI is Good for Construction



- Seasonal industry → short windows, high pressure
- Uncontrolled environment → weather, equipment, variables
- Tons of data → little structure or consistency
- AI brings order → turns information into action

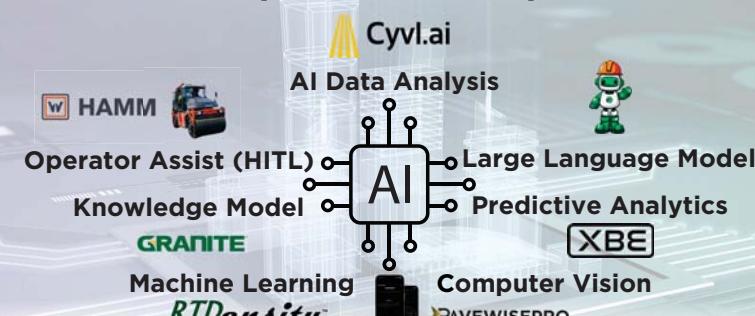
How Can we Effectively Utilize AI?



What does **success** look like for this implementation?

- Saving time on manual tasks
- Boosting quality incentives and profits
- Improved density and quality incentives
- Hours saved per week

Examples of AI in Asphalt



Large Language Model



Hey NAPA simplifies complex topics and offers step-by-step guidance based on best practices.



<https://heynapa.com>



Business Operations Software for Heavy Materials, Logistics, and Construction
AI-powered tools that connect people, data, and decisions across the heavy materials lifecycle

Predictive Analysis Model



Where AI Meets Real-World Operations

- Ready-mix dispatch assignment suggestions
- Trucking lineup assignment optimization
- Natural language driver, tractor, and trailer assignment restrictions
- Routing strategy and location suggestions
- Automated trucking event status actualization
- Natural language equipment maintenance schedule policies and maintenance requirement generation
- Attribute extraction from ticket images
- Automated time card approval auditing
- Safety risk and safety meeting content generation
- Chatbot assistant with platform expertise



Don't suffer from uncertainty and competition.

Profit from it.
www.x-b-e.com

XBE



Computer Vision

Density+

PAVEWISEPRO



Communication

• Centralized data sharing between office and field.

Weather

• Project-specific updates, impacts, and recommendations.

Requirements

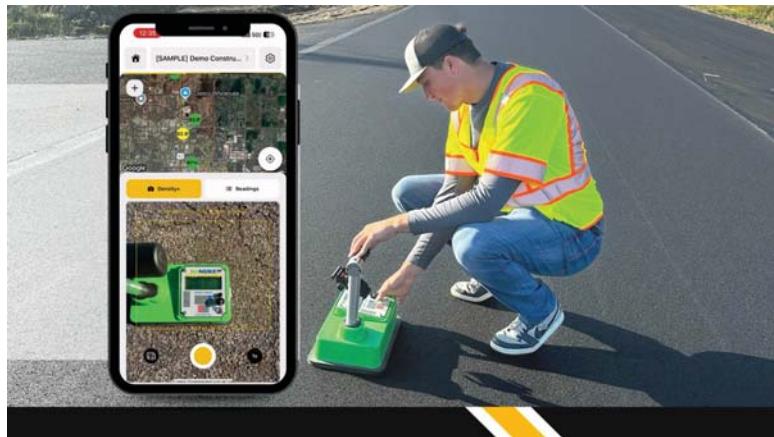
• Key production and quality specs for crew success.

Data Link

• Instant access to plans and verified work docs.

Density+

• AI-driven compaction insights in real time.



RTDensity™

Real-Time Asphalt Density

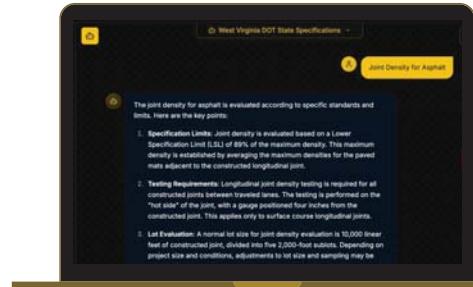
- ML Algorithm - Translates Roller Vibration Data into Percentage Density
- In-Cab Display for Operators
- Cloud Storage with As-Built Maps
- GPS Tagged Records for Pass-by-Pass Analysis



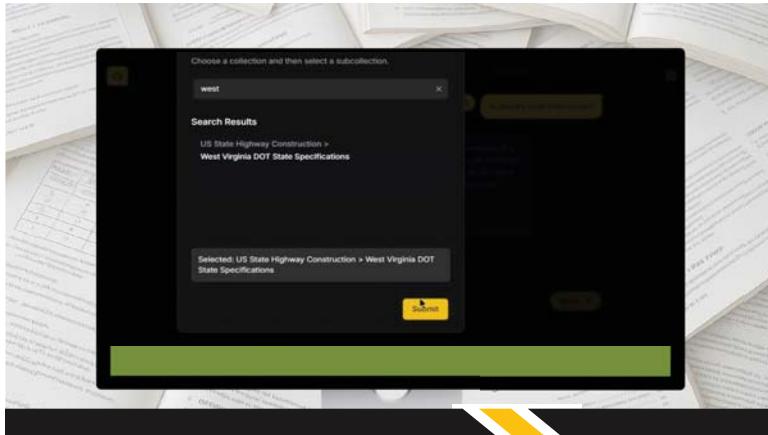
Machine Learning



PAVEWISE Natural Language API



SpecChat AI



AI Knowledge Model

Granite Asphalt Gooru

Conversations

Calculating Trucks Needed for P...

Traffic Control Setup Injuries

New Chat

GRANITE



You

How many trucks might I need to pave 2200 tons in a 6 hour window when the plant is 42 minutes away by truck?

Granite Asphalt Gooru

To calculate the number of trucks needed, I'll use the formula: Number of trucks = (Tons to pave / Tons per truck) * (Round trip time / Paving window) Given information:

- 2200 tons to pave
- 6 hour paving window
- 42 minute one-way trip time
- Assuming 24 tons per truck load (based on common truck capacity mentioned in sources)

Stop generation

Your message...



HAMM Operator Assist (HITL)

Smart Compact Pro



HAMM Smart Compact Basic/Pro





Thank You

