

Technology and Industry Trends

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2025 FLORIDA ASPHALT
EXPO & CONFERENCE

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Bryce Wuori

CEO/Co-Founder
Pavewise

20+ Year
Industry
Experience

3000+ miles
Roads Paved
across 43 states

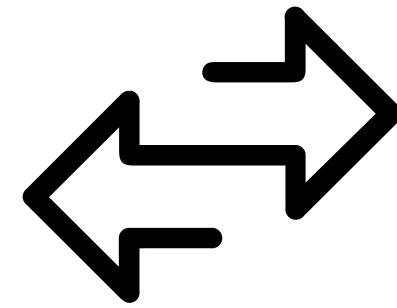


HIGHWAY 85 SDX
Test Project



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Change will Happen



Factors Driving Change in Construction

Manual Process



Pen and Paper create a slower process for decision -making and can lead to errors for accuracy

Time to Data



Access to critical data through outdated methods decreases the ability to produce changes for quality

Non -Geospatial



Data that lacks an associated location fails to deliver value beyond the scope of the project

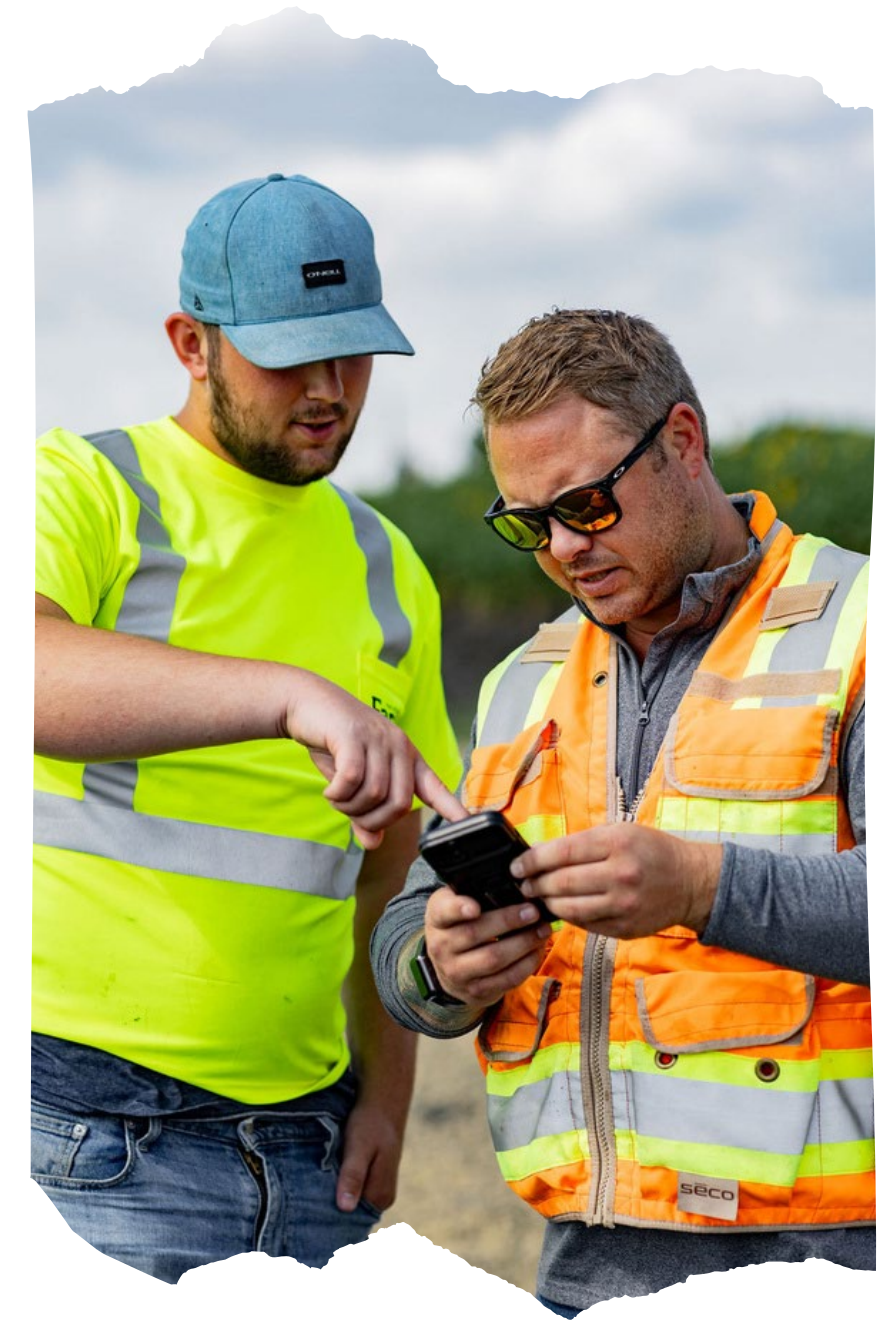
Transparency



Current processes fail to centralize data for the teams involved in the project, hindering their ability to act as a unified team to enhance quality standards



Biggest Driver of Change



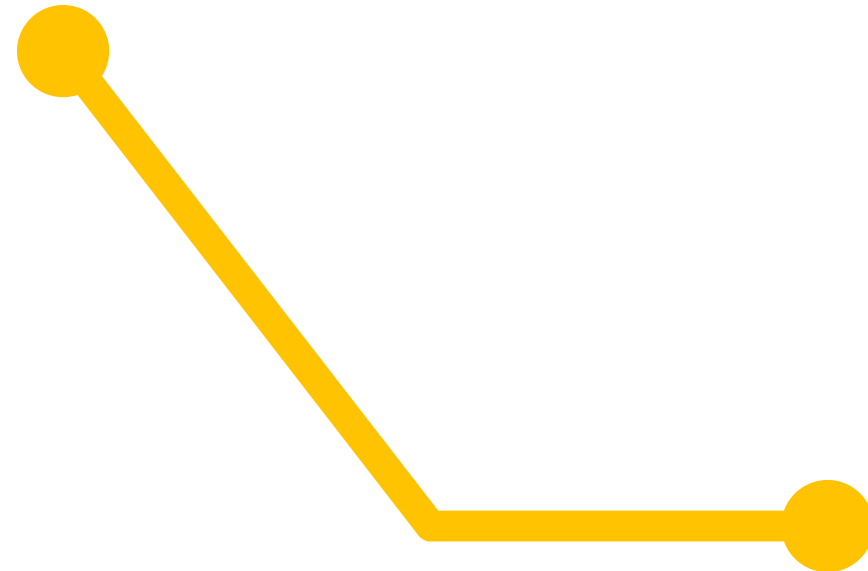


What is AI in Construction?



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The Case Against Fearing



People have to start and end the process





AI is a New Age Tool

- Accelerate decision-making
- Automate the “Busy Work”
- Work smarter, not longer
- Increase precision and speed
- Empower lean teams



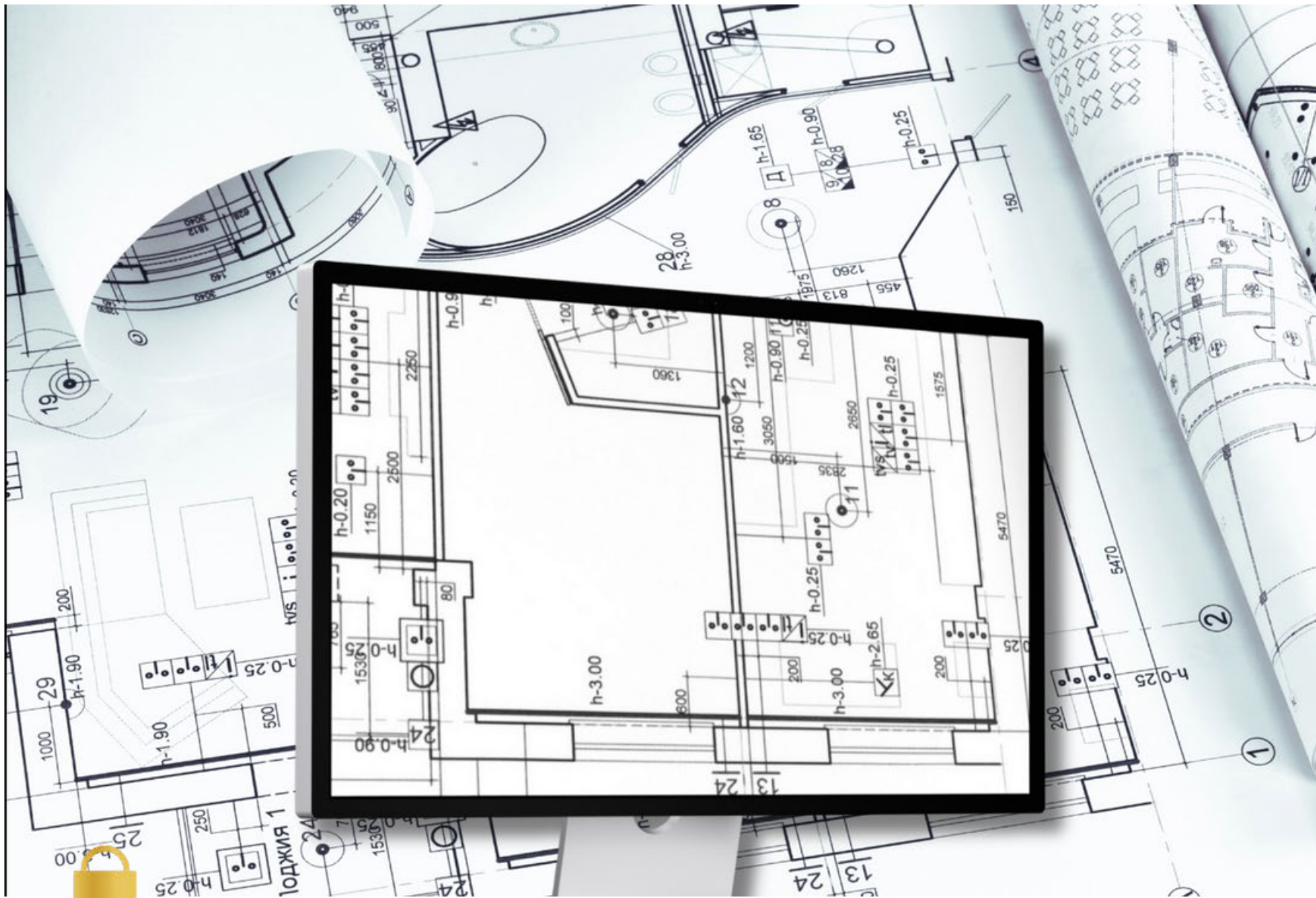
Why AI is Good for Construction



- 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



AI Is Already Here — State Agencies Are Beginning to Adopt



- WVDOT → using AI to analyze road quality
- Louisiana DOTD → digitizing and centralizing geotechnical data
- FLDOT: testing AI-based documentation & quality assurance tools



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



Operator Assist (HITL)

Knowledge Model

GRANITE

Machine Learning

*RTDdensity*TM



Cyvl.ai

AI Data Analysis



Large Language Model

Predictive Analytics



Computer Vision

PAVEWISEPRO



Large Language Model



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



<https://heynapa.com>



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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



bitly

Don't suffer from uncertainty and competition.

Profit from it.

www.x-b-e.com

XBE



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Computer Vision

Density+

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

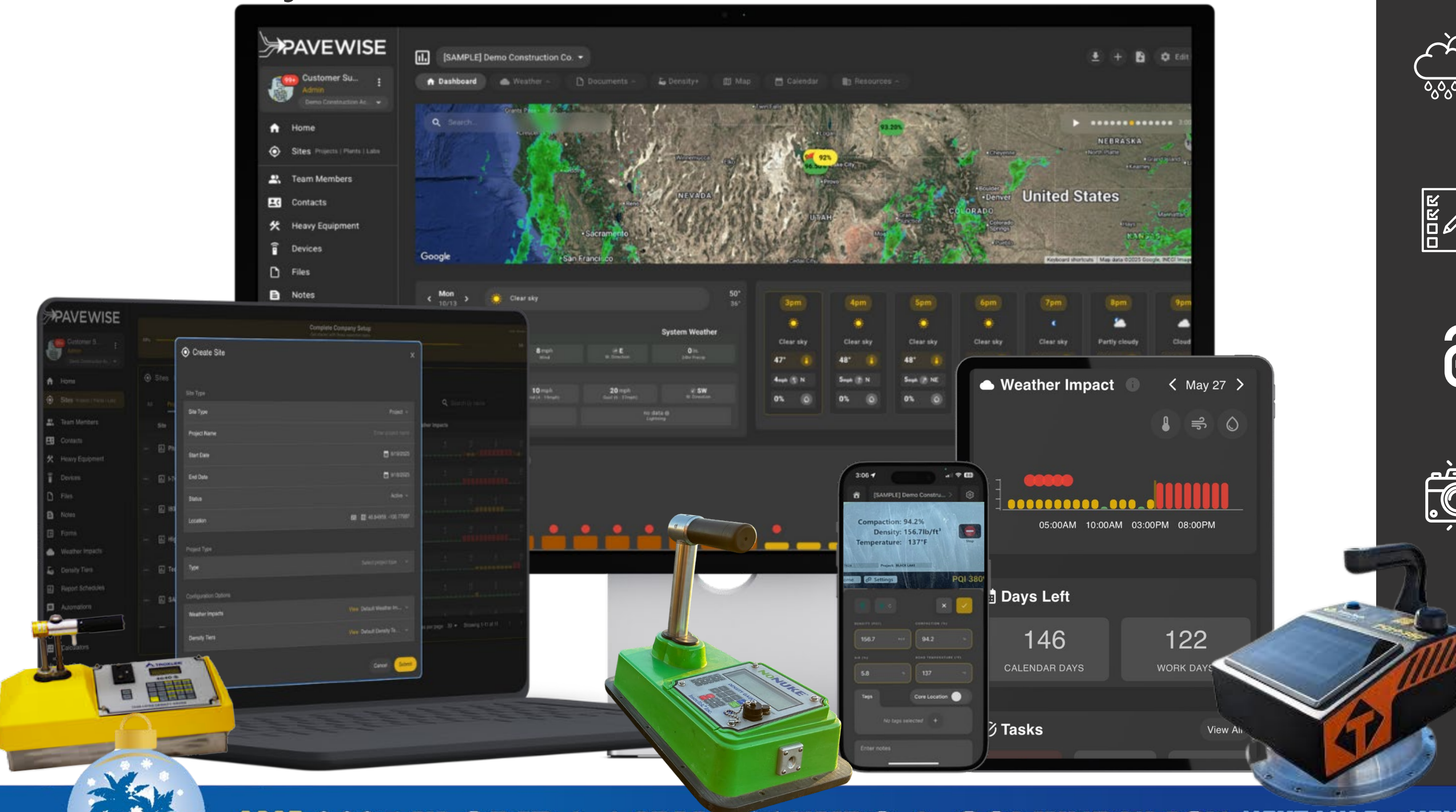


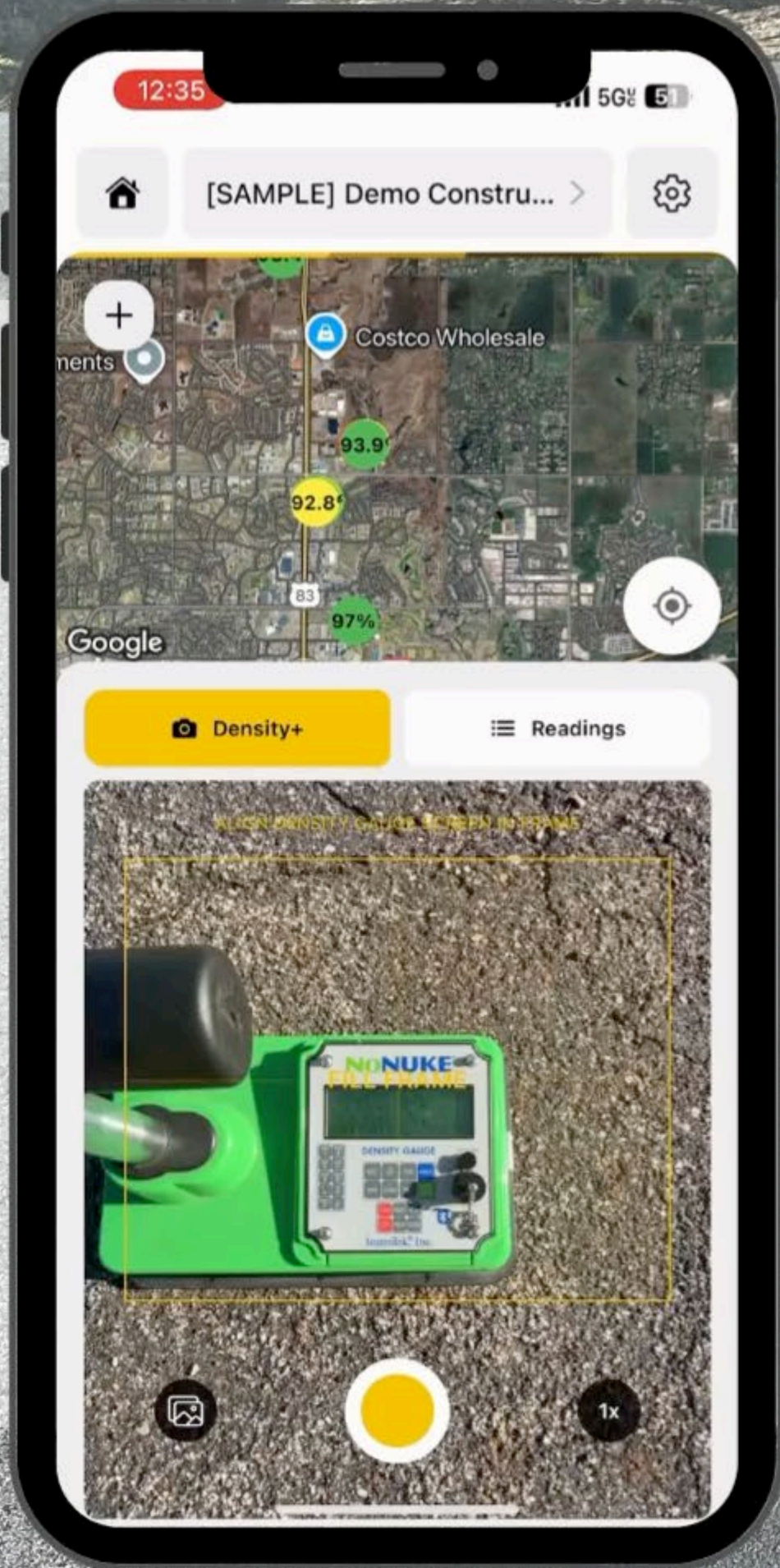
Instant access to plans and verified work docs.

Density+



AI - driven compaction insights in real time.





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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

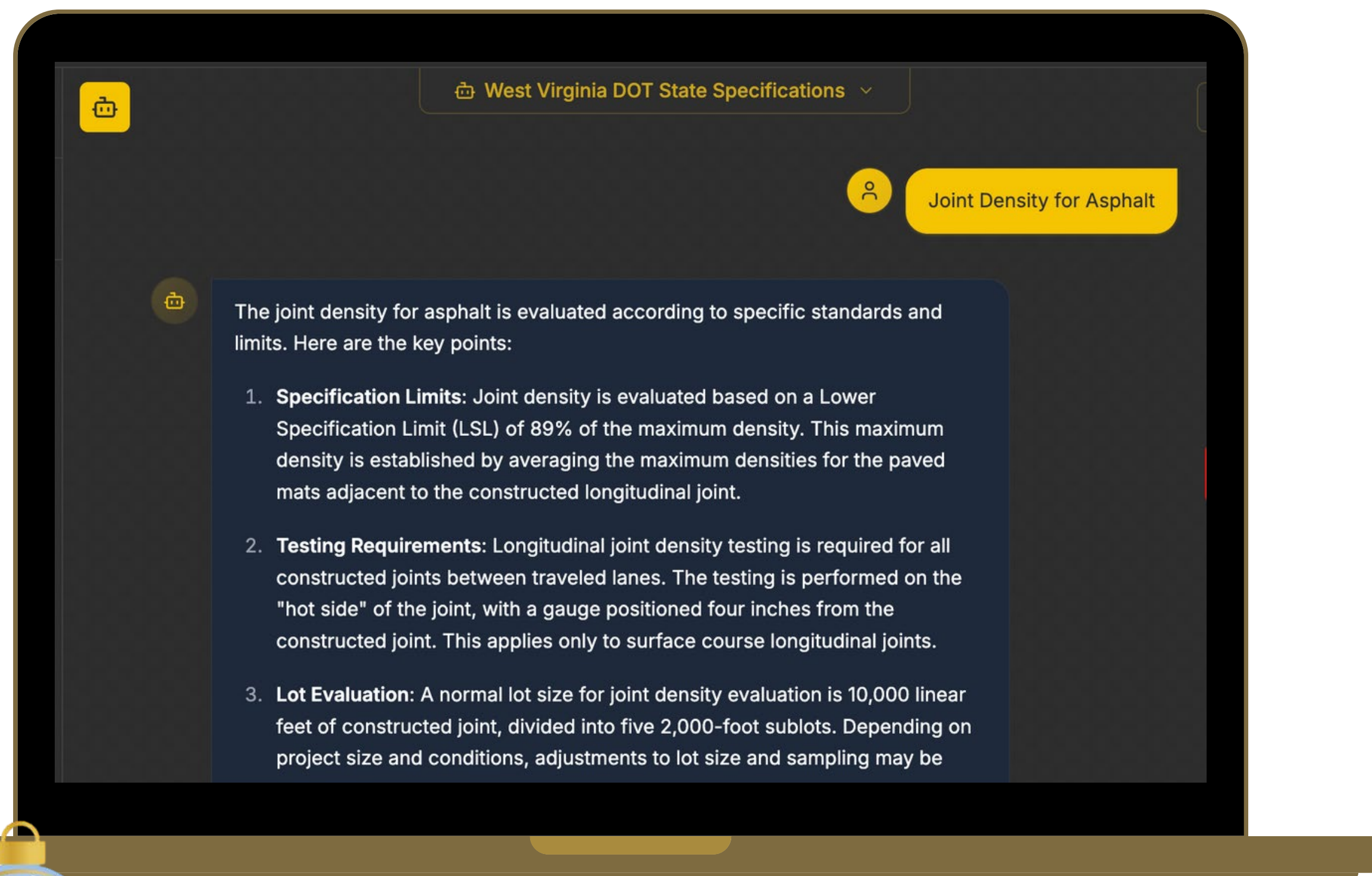
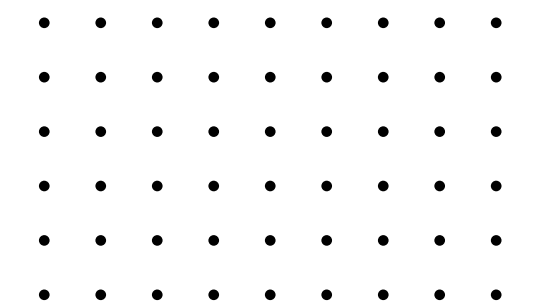
Machine Learning



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[SpecChat](#) AI



Agents

+ Start a new chat

Connecticut DOT Standard Specifications

Connecticut DOT Standard Specifications

Delaware DOT Standard Specifications

Florida DOT Standard Specifications

Georgia DOT Standard Specifications

Idaho DOT Standard Specifications

Illinois DOT Standard Specifications

Indiana DOT Standard Specifications

Iowa DOT Standard Specifications

Kansas DOT Standard Specifications

Kentucky DOT Standard Specifications

SpecChat

by PAVEWISE

Florida DOT Standard Specifications

Chatting with Florida DOT Standard Specifications

View documents

Asphalt temperature

SWPPP inspection

Base compaction

Ask about paving specs, materials, or compliance requirements...

Send

Press Enter to send. Shift+Enter for new line

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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...



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AGC CONSTRUCTION INNOVATION AWARDS

Presented By
 AUTODESK

2025 Innovation Award Finalist
ASPHALT GOORU
GRANITE®



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HAMM

Operator Assist (HITL)



Smart Compact Pro



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HAMM

Smart Compact Basic/Pro

HMV stiffness value



Real-time density



Smart Compact Basic

Smart Compact Pro



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AI Data Analysis

cyvl.ai



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Future of Asphalt Paving

Omni Environment





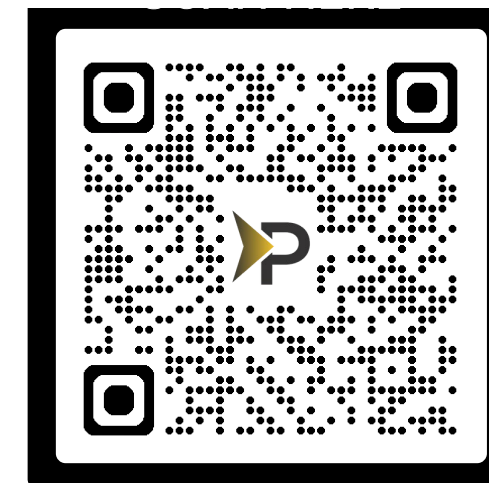
Density



PAVEWISEPRO



SpecChat AI



Thank You

RTDensity™



GRANITE



HAMM



Cyvl.ai



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