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Trimble Launches New Trimble Connect Platform AI Capabilities Aimed at De-Risking Construction

Expanded platform closes operational gaps to turn industry risk into confidence, while preserving the deep specialization project teams rely on every day

Anchored in ground truth, new AI capabilities accelerate the connections between jobsite information, design, cost and operational workflows

LAS VEGAS, Nov. 9, 2026 /PRNewswire/ -- Today at Trimble Dimensions, Trimble (Nasdaq: TRMB) announced new Trimble Connect® AI capabilities across the design, build and operate lifecycle of construction that increase the breadth and functionality of the industry platform. From generative design using Trimble Assist, to customer designed agents in Trimble Agent Studio, to advanced AI governance and transparency, Trimble Connect is delivering cutting-edge AI solutions.

Trimble Connect goes beyond software-only solutions by natively integrating precision field hardware, machine control telemetry and jobsite data. Operating alongside enterprise software and back-office systems, it ensures information, context and intelligence can move with the work. With over 55 million cumulative users that have worked across more than 35 million projects, the platform enables one shared data layer across an open ecosystem of more than 400 integrations.

As construction faces shrinking labor capacity and tighter profit margins, risk increases on every project. That risk compounds in the gaps between tools, teams and workflows where information gets siloed. Trimble's platform-first approach closes these gaps by linking design, estimating, field and financial data while keeping specialized tools intact.

Industry intelligence grounded in physical reality

By grounding generative models in physical jobsite reality, the AI layer of the Trimble Connect platform delivers precision that general purpose tools cannot match. General-purpose AI starts with what it learned in training from the breadth of the internet and whatever tools and data it is given. In contrast, the AI layer of the Trimble Connect platform brings leading AI models together with what construction work requires: a project's own data, field and machine telemetry, the tools to act on it inside Trimble applications, and the expertise of Trimble's domain specialists. It expands what teams can take on, while project leaders keep the final decision.

Built natively into the Trimble Connect platform, **Trimble Assist** provides teams with a common, conversational AI interface to interact with AI agents and to help surface critical insights from across the Trimble ecosystem. Meanwhile, **Trimble Agent Studio** empowers customers to capture standard operating procedures and the institutional knowledge of their most experienced team members into customized AI agents and skills to help train and guide the emerging generation of workers. Together, they power the platform's AI layer, enabling teams and developers to build, configure and orchestrate, access and govern custom AI agents across their project workflows.

"In construction, risk can enter a project at five major points: physical, informational, contractual, commercial and knowledge. Connection is how we help customers manage that risk," said Rob Painter, president and CEO of Trimble. "The power of Trimble's open platform lies in its ability to allow teams to identify real-world problems and enable rapid decision-making, all grounded in data from the work itself. By embedding industry intelligence within Trimble Connect, we are driving predictability and profitability across the built lifecycle."

Showcasing AI innovation across construction

The Trimble Connect platform gives teams one connected view across design, build and operate phases. It leverages domain context from specialized workflows while keeping human judgement at the center of decision making.

At Trimble Dimensions User Conference, Trimble highlighted several new AI capabilities integrated across the platform:

During the design phase, Trimble bridges conceptual design models and constructible reality by enabling teams to turn raw field data and natural language into precise geometry.

- **Generative Design:** Designers can generate new architectural design options while referencing live, as-built point clouds streamed directly into their design environment from Trimble Connect.
- **Automated Structural Modeling:** Converts natural language prompts and spatial data in Trimble Connect directly into constructible steel models and generates fabrication files without manual data entry.
- **Design File Verification:** Automatically audits heavy equipment design files for civil projects to catch geometry errors before sending data out to machinery in the field.
- **One-Click AI Indoor Classification:** Automatically categorizes millions of raw point cloud scan points into structural

regions (including floors, walls, pipes and temporary structures) directly from mobile or desktop devices.

During the build phase, Trimble provides contractors with real-time site intelligence to prevent issues in the field and keep operations on schedule.

- **AI Diagnostics for Field Hardware:** Parses live system telemetry, machine logs and GNSS signal data to provide real-time, root-cause diagnostics for machine control issues on site.
- **360 Reality Capture:** Utilizes computer vision natively embedded in Trimble Connect to transform 360 sitewalk videos into highly-accurate 3D point clouds aligned to project drawings.
- **AI Punch Walk:** Embedded within Trimble Connect, it enables field engineers to conduct voice-driven inspections on mobile devices while an AI agent transcribes observations, tags locations and pins punch items to drawings in real time.

During the operating phase, Trimble Connect synchronizes field progress directly with financial ledgers, schedules and enterprise ERPs to ensure that teams stay on schedule and protect profit margins.

- **AI Procurement and Invoice Matching:** Streamlines procurement by automatically matching supplier invoices against purchase orders and field delivery receipts to flag billing discrepancies.
- **Contract Risk Analysis and Change Order Automation:** Analyzes contractual risk across project documents and drawings to automatically draft ERP-synced Potential Change Orders (PCOs), complete with labor, material and markup details for human review and approval.
- **Trimble Connect Scheduling:** Powered by an agentic planning engine natively built into Trimble Connect, it links master CPM timelines directly to live jobsite data, including field look-aheads and RFIs as well as weather forecasts and submittals. It continuously evaluates risk, recommends mitigation and puts new plans into action before micro-delays snowball into project-wide overruns.

Advancing AI governance and transparency

The platform is designed for customers to trust it with their most important project data, and Trimble AI runs inside that trusted environment. To ensure customer trust matches the pace of innovation, 100% of currently available AI agents and models in the AI layer of the Trimble Connect platform feature live, standardized AI 'safety labels.' Aligned with the EU AI Act, Trimble's AI Statement and Principles, and ISO 42001 standards, these labels document safety, security design and data provenance.

Availability of AI capabilities

Trimble is enabling customers to experience the impact of AI by integrating innovative capabilities into core solutions.

- Automated Structural Modeling, AI Indoor Classification, 360 Reality Capture, AI Punch Walk, AI Procurement & Invoice Matching and Trimble Connect Scheduling are all available capabilities today.
- AI Diagnostics for Field Hardware is available for select customers.
- Design File Verification and Change Order Automation capabilities are in development.
- Generative Design capabilities are currently in Trimble Labs, an early engagement program that enables customers to explore new concepts and provide user feedback.

To learn more about the Trimble Connect platform evolution, read "One Platform, End-to-End Intelligence: What's Next for Trimble Connect" by Rob Painter: https://news.trimble.com/what-is-next-for-trimble-connect-by-rob-painter.

About Trimble
Trimble is a global technology company that connects the physical and digital worlds, transforming the ways work gets done. With relentless innovation in precise positioning, modeling and data analytics, Trimble enables essential industries including construction, geospatial and transportation. Whether it's helping customers build and maintain infrastructure, design and construct buildings, optimize global supply chains or map the world, Trimble is at the forefront, driving productivity and progress. For more information about Trimble (Nasdaq: TRMB), visit: www.trimble.com.

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