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Global AI-Enabled Construction Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global AI-Enabled Construction market size was valued at US$ 5659 million in 2025 and is forecast to a readjusted size of US$ 19506 million by 2032 with a CAGR of 19.5% during review period.

AI-enabled construction refers to the integration of artificial intelligence into the end-to-end construction lifecycle, using algorithms on top of building information models, project management platforms, IoT sensing and site operations to transform raw project data into automated insights and decisions. It ingests and analyzes multi-source information such as drawings and specifications, schedules and cost logs, contracts and bills of quantities, field photos and videos, sensor and positioning streams, and equipment telemetry. By automating feature extraction, pattern recognition, risk prediction and optimization, AI-enabled construction shifts key decisions from experience-driven judgment to data-driven and model-driven workflows, improving efficiency, quality, safety and compliance across planning, design, procurement, construction, handover and operations.

In terms of product form, AI-enabled construction encompasses document and model intelligence (for example, structuring drawings and codes, detecting design clashes and change risks, extracting contract obligations and claim opportunities), field analytics powered by computer vision and IoT (detecting safety hazards and quality defects, continuously verifying progress and quantities), and predictive and optimization engines for cost, schedule and resource planning. These capabilities are typically delivered as software subscriptions combined with implementation and data services, and their business value is measured through quantifiable reductions in rework and incidents, shorter cycle times, tighter cost and schedule performance, and stronger auditability of

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project decisions.

AI-enabled construction enters a new phase of scaled, system-level adoption

Against a backdrop of rising cost pressure, labor shortages and stricter safety and compliance expectations, AI-enabled construction is moving rapidly from isolated pilots to system-level deployment. On the one hand, project artifacts such as drawings, models, logs and field data are being digitized and consolidated into platforms, creating high-value data assets for algorithms; on the other hand, capital expenditure is shifting toward data centers, infrastructure and highly complex projects, pushing contractors to use data and models to hedge schedule and cost volatility. Multiple industry analyses show that AI use in construction has expanded from early planning and design into the jobsite and operations, with the associated market maintaining strong double-digit growth.

In practice, value emerges first from high-frequency, closed-loop and tightly integrated scenarios. Intelligent review of drawings and contracts can compress the time needed for design coordination, quantity takeoff and change management. Computer-vision and sensor-based analytics on site can detect safety hazards and quality issues earlier and feed them into ticketing systems for structured follow-up. Predictive models built on historical and real-time data help teams identify cost and schedule overruns before they escalate. As platforms and contractors accumulate more project-level data, AI evolves from a single “feature” into a cross-cutting “control layer” in project management, becoming a key lever for new productivity and differentiated competitiveness.

At the same time, AI-enabled construction faces constraints around data, accountability and governance. Construction data is heterogeneous and non-standard; without robust data standards and access control, models are vulnerable to noisy and biased inputs and difficult to replicate across projects. Multi-party delivery structures mean that realizing real ROI often requires redesigning workflows and roles rather than just adding features to existing systems. In safety, quality and contractual dispute scenarios, requirements for explainability and audit trails are higher, and regulatory frameworks in different regions are evolving quickly. As a result, competitive differentiation is shifting from simply “using AI” toward consistently delivering measurable, auditable performance gains across portfolios and stakeholders.

This report is a detailed and comprehensive analysis for global AI-Enabled Construction market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report

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explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global AI-Enabled Construction market size and forecasts, in consumption value ($ Million), 2021-2032

Global AI-Enabled Construction market size and forecasts by region and country, in consumption value ($ Million), 2021-2032

Global AI-Enabled Construction market size and forecasts, by Type and by Application, in consumption value ($ Million), 2021-2032

Global AI-Enabled Construction market shares of main players, in revenue ($ Million), 2021-2026

The Primary Objectives in This Report Are:
To determine the size of the total market opportunity of global and key countries
To assess the growth potential for AI-Enabled Construction
To forecast future growth in each product and end-use market
To assess competitive factors affecting the marketplace

This report profiles key players in the global AI-Enabled Construction market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Autodesk, Inc., Procore Technologies, Inc., Trimble Inc., Bentley Systems, Incorporated, OpenSpace, Inc., Buildots Ltd., Doxel, Inc., ALICE Technologies, Inc., nPlan Limited, Oracle Corporation (Construction & Engineering), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

AI-Enabled Construction market is split by Type and by Application. For the period

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2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Solutions (Software and Platform)

Services

Market segment by Core Function

Project Management

Risk Management

Schedule Management

Others

Market segment by Technology Type

Machine Learning and Deep Learning

Natural Language Processing

Computer Vision

Market segment by Downstream Industry

Commercial Construction

Residential Construction

Industrial and Infrastructure Construction

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Others

Market segment by Application

Construction Phase

Preconstruction Phase

Post-Construction Phase

Market segment by players, this report covers

Autodesk, Inc.

Procore Technologies, Inc.

Trimble Inc.

Bentley Systems, Incorporated

OpenSpace, Inc.

Buildots Ltd.

Doxel, Inc.

ALICE Technologies, Inc.

nPlan Limited

Oracle Corporation (Construction & Engineering)

Glodon Company Limited

Luban Software Co., Ltd.

Vanyi Technology Co., Ltd.

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Hangzhou Newgrand Technology Co., Ltd.

Hangzhou Haolian Intelligent Technology Co., Ltd.

Hangzhou Hikvision Digital Technology Co., Ltd.

Shenzhen Mingyuan Cloud Technology Co., Ltd.

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe AI-Enabled Construction product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of AI-Enabled Construction, with revenue, gross margin, and global market share of AI-Enabled Construction from 2021 to 2026.

Chapter 3, the AI-Enabled Construction competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026.and AI-

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Enabled Construction market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of AI-Enabled Construction.

Chapter 13, to describe AI-Enabled Construction research findings and conclusion.

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3 MARKET COMPETITION, BY PLAYERS

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