

Global Artificial Intelligence (AI) in Construction Market Size Study & Forecast, by Solution, Deployment, Construction Stage, Construction Type, and Regional Forecasts 2025-2035

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Abstracts

The Global Artificial Intelligence (AI) in Construction Market was valued at approximately USD 3.93 billion in 2024 and is projected to grow at an impressive CAGR of 24.6% over the forecast period 2025–2035. AI has become a transformative force across industries, and construction is no exception. By integrating AI into traditional construction workflows, organizations are revolutionizing project planning, resource allocation, predictive maintenance, and risk mitigation. From drones capturing real-time site imagery to intelligent algorithms optimizing construction schedules, AI is becoming indispensable in driving precision, efficiency, and safety. The rising complexity of construction projects and demand for real-time decision-making analytics have accelerated the adoption of AI-powered solutions, fostering improved collaboration and reduced operational bottlenecks.

With a growing emphasis on automation and digital transformation in the construction ecosystem, AI solutions are being adopted across various stages—from pre-construction to post-completion phases. In pre-construction, predictive analytics helps in cost estimation and feasibility assessments, while during the build phase, AI streamlines labor management and supply chain orchestration. Post-construction, AI ensures continuous building monitoring, maintenance scheduling, and energy optimization. Cloud-based deployments are gaining significant traction due to their scalability and remote accessibility, although on-premises solutions continue to be preferred in projects requiring stringent data security. The push towards smart cities and infrastructure modernization is also encouraging market players to innovate around integrated AI modules that can manage construction timelines, anticipate delays, and prevent

resource misallocation.

Regionally, North America is anticipated to lead the AI in Construction Market by 2025, powered by a robust tech ecosystem, early AI adoption across construction giants, and widespread integration of Building Information Modeling (BIM) systems. The United States remains a major contributor, with increased investments in smart infrastructure and large-scale commercial projects leveraging AI for predictive insights. Europe is also making significant headway, with countries like Germany and the UK investing heavily in green construction technologies, wherein AI plays a pivotal role. Meanwhile, Asia Pacific is expected to witness the highest growth rate during the forecast period, driven by burgeoning urbanization, expansive infrastructure development initiatives, and government-backed digital transformation agendas across India, China, and Southeast Asia.

Major market players included in this report are:

Autodesk Inc.

IBM Corporation

Oracle Corporation

Microsoft Corporation

Trimble Inc.

SAP SE

Bentley Systems, Incorporated

NVIDIA Corporation

Amazon Web Services, Inc.

Dassault Syst?mes

ALICE Technologies

eSUB Construction Software

Smartvid.io, Inc.

PTC Inc.

OpenSpace

Global Artificial Intelligence (AI) in Construction Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period – 2025–2035

Report Coverage – Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope – North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope – Free report customization (equivalent up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segments of the market are explained below:

By Solution:

Project Management

Risk Management

Schedule Management

Supply Chain Management

Others

By Deployment:

Cloud

On-premises

By Construction Stage:

Pre-construction

Construction

Post-construction

By Construction Type:

Residential

Industrial

Commercial

Infrastructure

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia Pacific

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

Latin America

Brazil

Mexico

Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with country-level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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