

# **Global AI in Construction Market Size study, 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) and Regional Forecasts 2022-2032**

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## **Abstracts**

Global AI in Construction Market is valued at approximately USD 3.20 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 24.4% over the forecast period 2024-2032. AI in construction encompasses deploying advanced artificial intelligence technologies, such as machine learning, computer vision, and natural language processing, to optimize various aspects of construction work. This includes improving project management, risk management, schedule management, supply chain management, quality management, and safety management. The market is driven by the increasing demand for efficiency, cost reduction, enhanced safety, and sustainability across construction projects.

The rising adoption of AI-based solutions for predictive analytics and risk management is driving the market's growth. Construction firms are leveraging advanced machine learning algorithms to analyze extensive datasets, including project schedules, budgets, material usage, and performance metrics. By identifying patterns and correlations within this data, AI algorithms can forecast potential risks and delays in construction projects. This proactive risk management approach helps minimize delays, cost overruns, and disruptions, ensuring project success. The growing need for enhanced efficiency and

productivity within the construction sector serves as a primary driver propelling the AI in construction market growth. AI-powered solutions leverage advanced technologies to automate tasks, analyze extensive datasets, and facilitate real-time decision-making. By optimizing project planning, scheduling, risk management, quality control, and safety hazard monitoring, construction companies can execute projects more efficiently, meet deadlines, adhere to budgets, and deliver high-quality results. Moreover, the introduction of advanced algorithms for boosting creativity and efficiency, as well as increasing adoption of AI in emerging economies present various lucrative opportunities over the forecast years. However, the concerns regarding privacy, security, and liability, as well as high initial investments and perceived risks are challenging the market growth throughout the forecast period of 2024-2032.

The key regions considered for the Global AI in Construction Market study include Asia Pacific, North America, Europe, Latin America, and Rest of the World. North America is a dominating region in the Global AI in Construction Market in terms of revenue. The market growth in the region is being attributed to factors including its highly developed construction industry with a strong emphasis on innovation and technology adoption. The region's investment in AI research and development fosters the creation of advanced solutions tailored to the construction sector's needs. Whereas, the market in Asia Pacific is anticipated to grow at the fastest rate over the forecast period fueled by rapid urbanization, infrastructure development, and increasing investment in construction projects. The availability of skilled labor, emerging technologies, and government initiatives promoting digital transformation further propel the adoption of AI in construction across the region.

Major market players included in this report are:

ALICE Technologies Inc. (U.S.)  
Dassault Systèmes (France)  
Oracle Corporation (U.S.)  
Trimble Inc. (U.S.)  
Komatsu (Japan)  
Procore Technologies, Inc. (U.S.)  
Doxel (U.S.)  
Autodesk (U.S.)  
SAP SE (Germany)  
Bentley Systems (U.S.)  
Smartvid.io, Inc.  
PlanGrid, Inc.  
Dusty Robotics, Inc.

Newmetrix  
Disperse.io Ltd.

The detailed segments and sub-segment of the market are explained below:

By Solution

Project Management

Risk Management

Schedule Management

Supply Chain Management

Others (Quality Management, Safety Management)

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

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Rest of Latin America

Middle East & Africa

Saudi Arabia

South Africa

RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

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.

## Contents

### **CHAPTER 1. GLOBAL AI IN CONSTRUCTION MARKET EXECUTIVE SUMMARY**

- 1.1. Global AI in Construction Market Size & Forecast (2022- 2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
  - 1.3.1. By Solution
  - 1.3.2. By Deployment
  - 1.3.3. By Construction Stage
  - 1.3.4. By Construction Type
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendation & Conclusion

### **CHAPTER 2. GLOBAL AI IN CONSTRUCTION MARKET DEFINITION AND RESEARCH ASSUMPTIONS**

- 2.1. Research Objective
- 2.2. Market Definition
- 2.3. Research Assumptions
  - 2.3.1. Inclusion & Exclusion
  - 2.3.2. Limitations
  - 2.3.3. Supply Side Analysis
    - 2.3.3.1. Availability
    - 2.3.3.2. Infrastructure
    - 2.3.3.3. Regulatory Environment
    - 2.3.3.4. Market Competition
    - 2.3.3.5. Economic Viability (Consumer's Perspective)
  - 2.3.4. Demand Side Analysis
    - 2.3.4.1. Regulatory frameworks
    - 2.3.4.2. Technological Advancements
    - 2.3.4.3. Environmental Considerations
    - 2.3.4.4. Consumer Awareness & Acceptance
- 2.4. Estimation Methodology
- 2.5. Years Considered for the Study
- 2.6. Currency Conversion Rates

### **CHAPTER 3. GLOBAL AI IN CONSTRUCTION MARKET DYNAMICS**

*Global AI in Construction Market Size study, by Solution (Project Management, Risk Management, Schedule Manage...*

### 3.1. Market Drivers

- 3.1.1. Increasing Demand for Predictive Analytics and Risk Management
- 3.1.2. Constant Need for Improved Efficiency and Productivity

### 3.2. Market Challenges

- 3.2.1. Concerns Regarding Privacy, Security, and Liability
- 3.2.2. High Initial Investments and Perceived Risks

### 3.3. Market Opportunities

- 3.3.1. Introduction of Advanced Algorithms for Boosting Creativity and Efficiency
- 3.3.2. Increasing Adoption of AI in Emerging Economies

## **CHAPTER 4. GLOBAL AI IN CONSTRUCTION MARKET INDUSTRY ANALYSIS**

### 4.1. Porter's 5 Force Model

- 4.1.1. Bargaining Power of Suppliers
- 4.1.2. Bargaining Power of Buyers
- 4.1.3. Threat of New Entrants
- 4.1.4. Threat of Substitutes
- 4.1.5. Competitive Rivalry
- 4.1.6. Futuristic Approach to Porter's 5 Force Model
- 4.1.7. Porter's 5 Force Impact Analysis

### 4.2. PESTEL Analysis

- 4.2.1. Political
- 4.2.2. Economical
- 4.2.3. Social
- 4.2.4. Technological
- 4.2.5. Environmental
- 4.2.6. Legal

### 4.3. Top Investment Opportunity

### 4.4. Top Winning Strategies

### 4.5. Disruptive Trends

### 4.6. Industry Expert Perspective

### 4.7. Analyst Recommendation & Conclusion

## **CHAPTER 5. GLOBAL AI IN CONSTRUCTION MARKET SIZE & FORECASTS BY SOLUTION 2022-2032**

### 5.1. Segment Dashboard

### 5.2. Global AI in Construction Market: Solution Revenue Trend Analysis, 2022 & 2032

(USD Billion)

- 5.2.1. Project Management
- 5.2.2. Risk Management
- 5.2.3. Schedule Management
- 5.2.4. Supply Chain Management
- 5.2.5. Others (Quality Management, Safety Management)

## **CHAPTER 6. GLOBAL AI IN CONSTRUCTION MARKET SIZE & FORECASTS BY DEPLOYMENT 2022-2032**

- 6.1. Segment Dashboard
- 6.2. Global AI in Construction Market: Deployment Revenue Trend Analysis, 2022 & 2032 (USD Billion)
  - 6.2.1. Cloud
  - 6.2.2. On-premises

## **CHAPTER 7. GLOBAL AI IN CONSTRUCTION MARKET SIZE & FORECASTS BY CONSTRUCTION STAGE 2022-2032**

- 7.1. Segment Dashboard
- 7.2. Global AI in Construction Market: Construction Stage Revenue Trend Analysis, 2022 & 2032 (USD Billion)
  - 7.2.1. Pre-construction
  - 7.2.2. Construction
  - 7.2.3. Post-construction

## **CHAPTER 8. GLOBAL AI IN CONSTRUCTION MARKET SIZE & FORECASTS BY CONSTRUCTION TYPE 2022-2032**

- 8.1. Segment Dashboard
- 8.2. Global AI in Construction Market: Construction Type Revenue Trend Analysis, 2022 & 2032 (USD Billion)
  - 8.2.1. Residential
  - 8.2.2. Industrial
  - 8.2.3. Commercial
  - 8.2.4. Infrastructure

## **CHAPTER 9. GLOBAL AI IN CONSTRUCTION MARKET SIZE & FORECASTS BY REGION 2022-2032**

- 9.1. North America AI in Construction Market
  - 9.1.1. U.S. AI in Construction Market
    - 9.1.1.1. Solution breakdown size & forecasts, 2022-2032
    - 9.1.1.2. Deployment breakdown size & forecasts, 2022-2032
    - 9.1.1.3. Construction Stage breakdown size & forecasts, 2022-2032
    - 9.1.1.4. Construction Type breakdown size & forecasts, 2022-2032
  - 9.1.2. Canada AI in Construction Market
- 9.2. Europe AI in Construction Market
  - 9.2.1. U.K. AI in Construction Market
  - 9.2.2. Germany AI in Construction Market
  - 9.2.3. France AI in Construction Market
  - 9.2.4. Spain AI in Construction Market
  - 9.2.5. Italy AI in Construction Market
  - 9.2.6. Rest of Europe AI in Construction Market
- 9.3. Asia-Pacific AI in Construction Market
  - 9.3.1. China AI in Construction Market
  - 9.3.2. India AI in Construction Market
  - 9.3.3. Japan AI in Construction Market
  - 9.3.4. Australia AI in Construction Market
  - 9.3.5. South Korea AI in Construction Market
  - 9.3.6. Rest of Asia Pacific AI in Construction Market
- 9.4. Latin America AI in Construction Market
  - 9.4.1. Brazil AI in Construction Market
  - 9.4.2. Mexico AI in Construction Market
  - 9.4.3. Rest of Latin America AI in Construction Market
- 9.5. Middle East & Africa AI in Construction Market
  - 9.5.1. Saudi Arabia AI in Construction Market
  - 9.5.2. South Africa AI in Construction Market
  - 9.5.3. Rest of Middle East & Africa AI in Construction Market

## **CHAPTER 10. COMPETITIVE INTELLIGENCE**

- 10.1. Key Company SWOT Analysis
  - 10.1.1. Company
  - 10.1.2. Company
  - 10.1.3. Company
- 10.2. Top Market Strategies
- 10.3. Company Profiles



- 10.3.1. ALICE Technologies Inc. (U.S.)
  - 10.3.1.1. Key Information
  - 10.3.1.2. Overview
  - 10.3.1.3. Financial (Subject to Data Availability)
  - 10.3.1.4. Product Summary
  - 10.3.1.5. Market Strategies
- 10.3.2. Dassault Syst?mes (France)
- 10.3.3. Oracle Corporation (U.S.)
- 10.3.4. Trimble Inc. (U.S.)
- 10.3.5. Komatsu (Japan)
- 10.3.6. Procore Technologies, Inc. (U.S.)
- 10.3.7. Doxel (U.S.)
- 10.3.8. Autodesk (U.S.)
- 10.3.9. SAP SE (Germany)
- 10.3.10. Bentley Systems (U.S.)
- 10.3.11. Smartvid.io, Inc.
- 10.3.12. PlanGrid, Inc.
- 10.3.13. Dusty Robotics, Inc.
- 10.3.14. Newmetrix
- 10.3.15. Disperse.io Ltd.

## **CHAPTER 11. RESEARCH PROCESS**

- 11.1. Research Process
  - 11.1.1. Data Mining
  - 11.1.2. Analysis
  - 11.1.3. Market Estimation
  - 11.1.4. Validation
  - 11.1.5. Publishing
- 11.2. Research Attributes

## List Of Tables

### LIST OF TABLES

TABLE 1. Global AI in Construction market, report scope

TABLE 2. Global AI in Construction market estimates & forecasts by Region 2022-2032 (USD Billion)

TABLE 3. Global AI in Construction market estimates & forecasts by Solution 2022-2032 (USD Billion)

TABLE 4. Global AI in Construction market estimates & forecasts by Deployment 2022-2032 (USD Billion)

TABLE 5. Global AI in Construction market estimates & forecasts by Construction Stage 2022-2032 (USD Billion)

TABLE 6. Global AI in Construction market estimates & forecasts by Construction Type 2022-2032 (USD Billion)

TABLE 7. Global AI in Construction market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 8. Global AI in Construction market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 9. Global AI in Construction market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 10. Global AI in Construction market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 11. Global AI in Construction market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 12. Global AI in Construction market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 13. Global AI in Construction market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 14. Global AI in Construction market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 15. U.S. AI in Construction market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 16. U.S. AI in Construction market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 17. U.S. AI in Construction market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 18. Canada AI in Construction market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 19. Canada AI in Construction market estimates & forecasts by segment  
2022-2032 (USD Billion)

TABLE 20. Canada AI in Construction market estimates & forecasts by segment  
2022-2032 (USD Billion)

.....

This list is not complete, the final report does contain more than 100 tables. The list may be updated in the final deliverable.

## List Of Figures

### LIST OF FIGURES

- FIG 1. Global AI in Construction market, research methodology
- FIG 2. Global AI in Construction market, market estimation techniques
- FIG 3. Global market size estimates & forecast methods.
- FIG 4. Global AI in Construction market, key trends 2023
- FIG 5. Global AI in Construction market, growth prospects 2022-2032
- FIG 6. Global AI in Construction market, porters 5 force model
- FIG 7. Global AI in Construction market, PESTEL analysis
- FIG 8. Global AI in Construction market, value chain analysis
- FIG 9. Global AI in Construction market by segment, 2022 & 2032 (USD Billion)
- FIG 10. Global AI in Construction market by segment, 2022 & 2032 (USD Billion)
- FIG 11. Global AI in Construction market by segment, 2022 & 2032 (USD Billion)
- FIG 12. Global AI in Construction market by segment, 2022 & 2032 (USD Billion)
- FIG 13. Global AI in Construction market by segment, 2022 & 2032 (USD Billion)
- FIG 14. Global AI in Construction market, regional snapshot 2022 & 2032
- FIG 15. North America AI in Construction market 2022 & 2032 (USD Billion)
- FIG 16. Europe AI in Construction market 2022 & 2032 (USD Billion)
- FIG 17. Asia Pacific AI in Construction market 2022 & 2032 (USD Billion)
- FIG 18. Latin America AI in Construction market 2022 & 2032 (USD Billion)
- FIG 19. Middle East & Africa AI in Construction market 2022 & 2032 (USD Billion)
- FIG 20. Global AI in Construction market, company market share analysis (2023)

.....

This list is not complete, the final report does contain more than 50 figures. The list may be updated in the final deliverable.

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