

3D Mapping and Modeling Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2019-2024

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Abstracts

The global 3D mapping and modeling market is expected to grow at a CAGR of around 13% during 2019-2024. 3D mapping refers to a three dimensional, mathematically defined, computer generated and highly realistic virtual representation of an area and the objects within. Some of the most frequently used 3D mapping techniques include photogrammetry which offers greater efficiency in the horizontal direction and laser scanning which provides precision in the vertical direction. 3D mapping models help in reducing inconsistencies and improving the accuracy of mapping products. On the other hand, 3D modeling refers to the process of creating a mathematical representation of a 3D object or shape using a software. It is one of the fastest growing design solutions used in a variety of industries for simulating, visualizing, and rendering graphic designs. For instance, Building Information Modeling (BIM), a 3D model-based process, is being adopted in numerous regions as it provides architecture, engineering and construction (AEC) professionals the tools and understanding to effectively plan, design, construct, and manage buildings and infrastructure activities.

Market Trends:

The demand for 3D mapping and modeling solutions has escalated particularly in the defense, military and aerospace sectors. These systems help to improve geospatial intelligence and enhance situational awareness across domains for continuous monitoring and surveillance programs, crisis intervention activities and broad area mapping.

3D mapping technology helps in analyzing ventilation, visibility and sunlight distribution between buildings. It also provides the shapes and dimensions of landscape features and architecture of an area and allows easy handling of massive data. Owing to these

features, this technology is rapidly gaining traction in topographic mapping and for the development of smart cities.

The leading organizations are now focusing on product innovations, and strategic mergers and acquisitions to increase their profitability and expand market presence. For instance, Trimble, a US-based developer of positioning products, has acquired Network Mapping Group Limited to provide high-value data modeling and 3D visualization services for the utility industry.

With the rising number of driverless cars, metros and other transport systems, the adoption of 3D mapping is expected to increase in the coming years owing to the need for custom-designed maps and open source routing engines for navigation.

The increasing use of 3D animation in mobile applications, games and movies; advancements in 3D scanners and sensors; and the advent of 3D-enabled display devices are some of the other major growth-inducing factors.

IMARC Group's latest report provides a deep insight into the global 3D mapping and modeling market covering all its essential aspects. This ranges from macro overview of the market to micro details of the industry performance, recent trends, key market drivers and challenges, SWOT analysis, Porter's five forces analysis, value chain analysis, etc. This report is a must-read for entrepreneurs, investors, researchers, consultants, business strategists, and all those who have any kind of stake or are planning to foray into the global 3D mapping and modeling market in any manner.

Report Coverage:

Historical, Current and Future Market Trends

Market Breakup by Component:

3D Mapping
3D Modeling

Market Breakup by Application:

Projection Mapping
Texture Mapping
Maps and Navigation
Others

Market Breakup by End-Use Industry:

Construction Industry
Transportation Industry

Automobile Industry
Entertainment Industry
Healthcare Industry
Others

Market Breakup by Region:

North America
Europe
Asia Pacific
Middle East and Africa
Latin America

Competitive Landscape:

The report has also analysed the competitive landscape of the market with some of the key players being Vricon, Airbus, Autodesk, Bentley Systems, Alphabet, Trimble, Intermap Technologies, Esri, CyberCity 3D, Topcon, Dassault Syst?mes, Adobe, Pix4D, Pixologic, Inc., Flight Evolved, MAXON, Onionlab, The Foundry Visionmongers, Mitsubishi Electric, Apple, etc.

Key Questions Answered in This Report:

How has the global 3D mapping and modeling market performed so far and how will it perform in the coming years?

What are the key regional markets in the global 3D mapping and modeling industry?

What is the breakup of the market based on the component?

What is the breakup of the market based on the application?

What is the breakup of the market based on the end-use industry?

What are the various stages in the value chain of the global 3D mapping and modeling industry?

What are the key driving factors and challenges in the global 3D mapping and modeling industry?

What is the structure of the global 3D mapping and modeling industry and who are the key players?

What is the degree of competition in the global 3D mapping and modeling industry?

What are the profit margins in the global 3D mapping and modeling industry?

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