

# **3D Mapping and Modeling Market by Component (Software Tools and Services), 3D Mapping Application, 3D Modeling Application, Vertical (Government and Defense, Engineering and Construction, Transportation and Logistics), and Region - Global Forecast to 2025**

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## **Abstracts**

The global 3D mapping and modeling market size is expected to grow from USD 3.8 billion in 2020 to USD 7.6 billion by 2025, at a Compound Annual Growth Rate (CAGR) of 15.0% during the forecast period. 3D mapping and modeling is a technique of profiling of objects in 3D in order to map the objects in real-world. There are several ways for a 3D profiling of an area or object, such as using a pair of a stereo camera. Another method is to measure the depth of an object or feature from focus. It provides the latest technical methods for visualisation and gathering information. Moreover, 3D mapping and modeling is tool that creates 3D scenes of a location that benefits enterprises such as high rise development, building interior and exterior and effects of a disaster.

COVID-19 is disrupting the world, businesses, and economies, thus impacting the livelihood of people, their interaction, and the way they manage their businesses. The ability to sustain is becoming the new normal for enterprises as they are shifting their focus from growth opportunities to the implementation of drastic measures for mitigating the impact of the COVID-19 pandemic. The competition among major 3D mapping and modeling companies is expected to be furious as most upcoming AI and analytics projects are kept on hold due to the pandemic. Hence, several companies would fight to gain a single project. Businesses are trying to return back to normal and facing multiple challenges on the customer as well as operational side. Meeting customer expectations

in terms of optimizing processes, increasing security concerns due to various voice-related recording systems and networks, growing network connectivity issues, and declining industrial and manufacturing operations are some of the key business challenges. New practices such as work from home and social distancing are creating the need for remote monitoring, smart payment technologies, and building digital infrastructure for large-scale deployments. With a sudden surge in remote workers, there is an increase in the demand for advanced 3D mapping and modeling-based software tools and services to effectively store and safeguard a huge amount of data.

Among Software tools, the 3D modeling segment to record the higher growth during the forecast period

By software tools, the 3D mapping and modeling is segmented into 3D mapping software and 3D modeling software. 3D modeling software tools is expected to account for a higher market growth rate during the forecast period. The growth rate is attributed to the increasing demand and wide applications of 3D modeling tools across the media and entertainment vertical. 3D modeling is the process of developing a 3D replica of an object via specialized software and the product formed is a 3D model. It can be displayed through a computer simulation method. 3D models created from 3D objects are a collection of data points that can be collected via scanners. 3D models can demonstrate proposed buildings and landscapes through software architectural models. 3D solid models are created for non-visual simulations used in medical and engineering. It is also used for CAD applications.

Among services, the managed services segment to record the higher CAGR during the forecast period

The services segment in the 3D mapping and modeling market has been further divided into professional services and managed services. These services play a vital role in the functioning of 3D mapping and modeling software tools. The growth of managed services can be attributed to the provision of technical expertise, helping companies enhance their focus on the core business processes. 3D mapping and modeling vendors require technical support services and consulting services to quickly and smoothly deploy their software tools in the market. These services help maximize the value of enterprise investments. Service providers ensure end-to-end deployment and maintenance of 3D mapping and modeling software tools and address pre- and post-deployment queries.

Among 3D modeling applications, the animation and movies segment to record the

highest CAGR during the forecast period

3D mapping and modeling software market is segmented on the basis of 3D modeling applications such as, product marketing, animation and movies, gaming and designing, architectural rendering, and others (simulation, sculpting, painting, and visualization). The increasing popularity of animated movies in the media and entertainment industry is expected to fuel the growth of animation and movies application. Moreover, the need to make customers understand designs properly by providing visual models to drive the use of 3D modeling for architectural rendering would also drive market growth. The demand for 3D modeling technology is augmented in the film industry, as it makes a noticeable impression on the industry by providing the finest animation practices. 3D full-length movies have increased the need for 3D modeling, which helps artists and animators develop detailed models of objects, including characters, landscapes, buildings, and more, to be used in animated films.

Among deployment mode, the cloud deployment segment to record the higher CAGR during the forecast period

The 3D mapping and modeling market by deployment mode includes the on-premises and cloud segments. Deployment refers to the setting-up of the hardware, operating systems, and applications required to manage the IT ecosystem. 3D mapping and modeling software tools can be deployed through either mode based on security, availability, and scalability. Cloud deployment offers advantages such as pay-per-use, and low installation and maintenance costs. This deployment mode is expected to show high growth in the near future.

Among organization size, the SME's segment to record the higher CAGR during the forecast period

3D mapping and modeling is widely being used across major verticals. Its adoption is increasing, irrespective of organization size. Based on organization size, the 3D mapping and modeling market is segmented into SMEs and large enterprises. Organizations are categorized among these two types based on their employee strength. SMEs have realized the necessity to structure large volumes of data, which increases with time. The adoption of 3D mapping and modeling software tools and services is expected to be high among SMEs due to the availability of low-cost cloud deployment options. The ever-growing volume of geospatial data due to the use of social media, mobile applications, and entertainment devices is one of the major factors increasing the adoption of 3D mapping and modeling software tools and services

among SMEs and large enterprises.

Among verticals, the healthcare and life sciences vertical to record the higher CAGR during the forecast period

3D mapping and modeling is gaining traction across key verticals, owing to the proliferation of geospatial data and demand for operational efficiency by organizations. The 3D mapping and modeling market by vertical into engineering and construction, retail and consumer goods, IT and telecom, manufacturing, healthcare and life sciences, transportation and logistics, media and entertainment, government and defense, energy and utilities, and others (education, agriculture, automotive, and IT and Telecom). In the healthcare and life sciences vertical, there is a rise in the use of 3D mapping and modeling software tools across various medical devices, such as X-ray, CT scan, and MRI. 3D mapping is used in the healthcare industry to get a clear view of the inner parts of the body and to understand human anatomy. This mapping technology helps surgeons to perform advanced surgeries such as removal of any constrictions inside the body by providing a 3D map of the organ. Advanced 3D modeling and image processing is used to create 3D surface models and 3D medical multi-modality imaging from the 3D CT/MRI images.

Among regions, North America to hold the largest market size during the forecast period

North America is expected to hold the largest market size in the global 3D mapping and modeling market during the forecast period. The key factor favoring the growth of the 3D mapping and modeling market in North America is the increasing demand for advanced customer viewing experience by small and medium businesses and government agencies would fuel the demand for 3D mapping and modeling products in North America. Europe is expected to be in second position in terms of market size and market share during the forecast period. The delivery of unprecedented manufacturing productivity improvements and increased speed and reliability of quality assurance and validation processes are some of the factors driving the 3D mapping and modeling market growth in Europe. APAC is expected to record the fastest growth rate during the forecast period. The 3D mapping and modeling market is expected to witness considerable developments and adoption of solutions across APAC during the forecast period. The increasing number of players across different regions is further expected to drive the 3D mapping and modeling market.

Breakdown of primaries

In-depth interviews were conducted with Chief Executive Officers (CEOs), innovation and technology directors, system integrators, and executives from various key organizations operating in the 3D mapping and modeling market.

By Company: Tier I: 34%, Tier II: 43%, and Tier III: 23%

By Designation: C-Level Executives: 50%, Directors: 30%, & Other level: 20%

By Region: North America: 30%, APAC: 25%, Europe: 30%, Latin America: 10%, Middle East and Africa: 5%

The report includes the study of key players offering 3D mapping and modeling software tools and services. It profiles major vendors in the global 3D mapping and modeling market. The major vendors in the global 3D mapping and modeling market include Autodesk (US), Saab AB (Sweden), Golden Software (US), Trimble (US), Bentley Systems (US), Alphabet (US), Intermap Technologies (US), Airbus (The Netherlands), Esri (US), CyberCity 3D (US), Topcon (Japan), Dassault Systèmes (France), Adobe (US), Pix4D (Switzerland), Pixologic (US), Flight Evolved (US), MAXON (Germany), Onionlab (Spain), The Foundry Visionmongers (UK), Mitsubishi Electric (Japan), Apple (US), WRLD (UK), GeoDigital (US), GeoSLAM (UK), Mapbox (US), DeepMap (US), Civil Maps (US), Hivemapper (US), Ivl5 (US), Shapr3D (Hungary), Innersight (UK), Astrivis (Switzerland), Pointivo (US), and Dynamic Map Platform (Japan).

## Research Coverage

The 3D mapping and modeling market is segmented by component, 3D mapping application, 3D modeling application, deployment mode, organization size, vertical, and region. A detailed analysis of the key industry players has been undertaken to provide insights into their business overviews; services; key strategies; new service launches; partnerships, agreements, and collaborations; business expansions; and competitive landscape associated with the global 3D mapping and modeling market.

## Key Benefits of Buying the Report

The report would help the market leaders/new entrants in the following ways:

It comprehensively segments the 3D mapping and modeling market and provides the closest approximations of the revenue numbers for the overall

market and its subsegments across regions.

It would help stakeholders understand the pulse of the market and provide information on the key market drivers, restraints, challenges, and opportunities.

It would help stakeholders understand their competitors better and gain more insights to enhance their positions in the market. The competitive landscape section includes a competitor ecosystem, new service developments, partnerships, and acquisitions.

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