

# **Model Based Enterprise Market by Offering (Solutions, Services), Deployment Type (On-premise, Cloud), Industry (Aerospace, Automotive, Construction, Power & Energy, Food & Beverages, Life Sciences & Healthcare, Marine), Region - Global Forecast to 2029**

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## **Abstracts**

The global model based enterprise market size is expected to grow from USD 13.6 billion in 2024 to USD 27.1 billion by 2029, at a CAGR of 14.9% from 2024 to 2029. The use of 3D models allows manufacturers to shift from design and prototyping to direct manufacturing of functional parts. Traditional manufacturing involves a high tooling cost; however, the use of 3D printing technique for model based enterprise provides several advantages, such as 3D CAD interoperability, minimized manufacturing and supplier response times, short production cycles, and lowered production costs due to the reduction in scrap and rework. This enables the long-term use of MBE, leading toward new capabilities such as reduced cost, reduced time to market, better quality, increased demand on interoperability, democratization of data availability, and competent platforms for collaboration.

“Services segment is projected to grow at an impressive CAGR during the forecast period.”

Consulting and integration services determine the need for diagnostic services, planning, system design, and implementation. These services help end users to achieve critical targets and develop the skillset for improving their internal planning and control processes. Consultants can help to upgrade or use the existing design and modeling systems and infrastructure to enhance plant-centric processes and operations for stronger business performance. Consultants help in analyzing the existing business processes and develop individual requirements to derive a solution concept or design a

process for optimizing and controlling operational workflows. The objective of offering these services is to improve the overall performance of systems for efficient processes, intelligent networks, and cross-area optimization.

' Cloud segment is projected to grow at an impressive CAGR during the forecast period.'

Cloud application frameworks support a wide range of engineering use cases such as supply chain collaboration, quality inspection planning, manufacturing process planning, and product service operations. Cloud-based MBE solutions facilitate data integration for development, offering flexibility, security, and scalability throughout the process. Major vendors providing cloud-based model based enterprise solutions are Siemens (Germany), PTC (US), SAP (Germany) and Dassault Systèmes (France) among many others. For instance, PTC offers Creo, which is a (CAD) software that is used as a cloud-based CAD solution while Windchill which is a PLM software that can be used as a cloud-based PLM solution. Also, SAP offers SAP S/4HANA Cloud Public Edition which is a cloud-based ERP software.

'Automotive industry is expected to hold significant market share during the forecast period.'

The automotive industry requires a strong, scalable, and secure infrastructure to distribute and monetize the content. MBE gives rise to the need for focused management services to simplify the workflow. To support these requirements, 3D modeling software, product life cycle management (PLM), and enterprise resource planning (ERP) solutions are powerful tools. Siemens (Germany) offers Automotive CAD under its PLM software portfolio that is used widely by automotive industry for automotive design and development. Also, Dassault Systèmes offers CATIA, a 3D CAD software, serves as a tool for designing and engineering automotive components and systems.

'The market in Europe is expected to grow at a impressive CAGR during the forecast period.'

The German government has a strong focus on the digitalization of various industries in the country. Industry 4.0 is an ambitious project undertaken by the German government, with an aim to computerize the manufacturing industry for increasing the resource efficiency and industrial output. Cyber-physical systems and the IoT are the technologies involved in this project, with a goal to create a smart factory. These

initiations boost the growth of MBE market in the near future.

Breakdown of the profiles of primary participants:

By Company Type: Tier 1 - 45%, Tier 2 - 35%, and Tier 3 - 20%

By Designation: C-level Executives - 40%, Directors - 35%, and Others - 25%

By Region: North America - 30%, Europe - 25%, Asia Pacific - 35%, and RoW – 10%

Major players profiled in this report are as follows: Siemens (Germany), PTC (US), Dassault Systèmes (France), SAP (Germany), Autodesk Inc. (US), HCL Technologies Limited (India), Oracle (US), Wipro (India), ANSYS, Inc (US), Bentley Systems, Incorporated (US) and Others.

### Research Coverage

The model based enterprise market has been classified by offering, deployment type, industry, and region. The market by offering has been classified into solutions and services. The deployment type segment is divided into cloud and on-premise. The market has been divided into aerospace, automotive, Construction, retail, power & energy, food & beverages, life sciences & healthcare, marine, oil & gas, electronics & telecommunications, and other industries by industry segment. The study also forecasts the market size in four key regions—North America, Europe, Asia Pacific, and RoW.

### Key Benefits of Buying the Report:

The report provides insights on the following pointers:

Analysis of key drivers ( Rising applications of digitization in design and manufacturing, Continuous advancement of software, Increasing adoption of cloud-based platforms), restraints (Difficulties in migration from on-premises to cloud-based platform), opportunities (Rising adoption of MBE to enhance product development in aerospace & defense industry, Rising adoption of digital twin and digital thread technologies), and challenges ( Unawareness about new technologies, Lack of security issues associated with MBE on online platform) influencing the growth of the model based enterprise market.

**Product Development/Innovation:** Detailed insights on new products, technologies, research & development activities, funding activities, industry partnerships, and new product launches in the model based enterprise market.

**Market Development:** Comprehensive information about lucrative markets – the report analyses the model based enterprise market across regions such as North America, Europe, Asia Pacific, and RoW.

**Market Diversification:** Exhaustive information about new products & technologies, untapped geographies, recent developments, and investments in the model based enterprise market

**Competitive Assessment:** In-depth assessment of market position, growth strategies, and product offerings of leading players like Siemens (Germany), PTC (US), Dassault Syst?mes (France), SAP (Germany), Autodesk Inc. (US), HCL Technologies Limited (India), Oracle (US) and among others in the model based enterprise market

**Strategies:** The report also helps stakeholders understand the pulse of the model based enterprise market and provides information on key market drivers, restraints, challenges, and opportunities.

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