

# Global Model Based Development (MBD) Market Growth (Status and Outlook) 2024-2030

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## Abstracts

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According to our LPI (LP Information) latest study, the global Model Based Development (MBD) market size was valued at US\$ 2491 million in 2023. With growing demand in downstream market, the Model Based Development (MBD) is forecast to a readjusted size of US\$ 7239.2 million by 2030 with a CAGR of 16.5% during review period.

The research report highlights the growth potential of the global Model Based Development (MBD) market. Model Based Development (MBD) are expected to show stable growth in the future market. However, product differentiation, reducing costs, and supply chain optimization remain crucial for the widespread adoption of Model Based Development (MBD). Market players need to invest in research and development, forge strategic partnerships, and align their offerings with evolving consumer preferences to capitalize on the immense opportunities presented by the Model Based Development (MBD) market.

Model based development (MBD) is a software development methodology based on V-cycle. The model based approach enables a developer to simulate the models for the complex control processes. These software models can be tested to assess the performance in real-time.

Model-based development is a design and development method that models, simulates, and then verifies controls and controlled objects that make up systems. Through model-based development, verification can be done during the design process, which reduces rework in the verification process, thereby significantly reducing development hours and

improving quality. Model-based development methods are used not only in the design process but also in the verification process. By modeling the verification environment, various types of verification can be performed.

Currently, model-based development is being used in a variety of products. It has been implemented mainly in the development of in-vehicle systems but is also being used in a wide range of other fields such as medical equipment and robotics. It is expected to be introduced in a variety of fields in the future.

Global key players of Model Based Development (MBD) include Siemens, IBM, PTC, ETAS, MathWorks, etc. The top five players hold a share over 53%. North America is the largest market, has a share about 36%, followed by Europe and Asia-Pacific, with share 34% and 25%, separately. In terms of product type, On-premises is the largest segment, occupied for a share of 63%, and in terms of application, Automotive has a share about 25%.

#### Key Features:

The report on Model Based Development (MBD) market reflects various aspects and provide valuable insights into the industry.

**Market Size and Growth:** The research report provide an overview of the current size and growth of the Model Based Development (MBD) market. It may include historical data, market segmentation by Type (e.g., On-premises, Cloud Based), and regional breakdowns.

**Market Drivers and Challenges:** The report can identify and analyse the factors driving the growth of the Model Based Development (MBD) market, such as government regulations, environmental concerns, technological advancements, and changing consumer preferences. It can also highlight the challenges faced by the industry, including infrastructure limitations, range anxiety, and high upfront costs.

**Competitive Landscape:** The research report provides analysis of the competitive landscape within the Model Based Development (MBD) market. It includes profiles of key players, their market share, strategies, and product offerings. The report can also highlight emerging players and their potential impact on the market.

**Technological Developments:** The research report can delve into the latest technological developments in the Model Based Development (MBD) industry. This

include advancements in Model Based Development (MBD) technology, Model Based Development (MBD) new entrants, Model Based Development (MBD) new investment, and other innovations that are shaping the future of Model Based Development (MBD).

**Downstream Procumbent Preference:** The report can shed light on customer procumbent behaviour and adoption trends in the Model Based Development (MBD) market. It includes factors influencing customer ' purchasing decisions, preferences for Model Based Development (MBD) product.

**Government Policies and Incentives:** The research report analyse the impact of government policies and incentives on the Model Based Development (MBD) market. This may include an assessment of regulatory frameworks, subsidies, tax incentives, and other measures aimed at promoting Model Based Development (MBD) market. The report also evaluates the effectiveness of these policies in driving market growth.

**Environmental Impact and Sustainability:** The research report assess the environmental impact and sustainability aspects of the Model Based Development (MBD) market.

**Market Forecasts and Future Outlook:** Based on the analysis conducted, the research report provide market forecasts and outlook for the Model Based Development (MBD) industry. This includes projections of market size, growth rates, regional trends, and predictions on technological advancements and policy developments.

**Recommendations and Opportunities:** The report conclude with recommendations for industry stakeholders, policymakers, and investors. It highlights potential opportunities for market players to capitalize on emerging trends, overcome challenges, and contribute to the growth and development of the Model Based Development (MBD) market.

**Market Segmentation:**

Model Based Development (MBD) market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of value.

Segmentation by type

On-premises

Cloud Based

Segmentation by application

Automotive

Electronics and Semiconductor

Aerospace and Defence

Medical

Industrial

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Siemens

IBM

PTC

ETAS

MathWorks

dSPACE

NXP

Altair

Zuken

Gamma Technologies

Maplesoft

BTC

Model Engineering Solutions

PikeTec

Vector Informatik

Sparx Systems

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