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Global Building Information Modeling (BIM) Market: Size, trends and Forecasts (2016-2020)

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Abstracts

Scope of the Report

The report titled “Global Building Information Modeling (BIM) Market: Size, trends and Forecasts (2016-2020)”, provides an in-depth analysis of the global BIM market by value, by segments, by components, by region, etc. The report also gives an insight of the global engineering software market. The report also provides a regional analysis of the BIM market, including the following regions: North America, MEA, Asia Pacific, Latin America and Europe.

The report also assesses the key opportunities in the market and outlines the factors that are and will be driving the growth of the industry. Growth of the overall global BIM market has also been forecasted for the period 2016-2020, taking into consideration the previous growth patterns, the growth drivers and the current and future trends.

The competition in the global BIM market is fragmented with several small players, but there are two prominent big players, Autodesk, Inc. and Nemetschek. Further, key players of the BIM market Nemetschek, Autodesk, Inc., Bentley Systems Incorporation and Trimble Navigation Limited are profiled with their business overview, financial overview and respective business strategies.

Country Coverage

North America

Europe

APAC

Latin America

MEA

Company Coverage

Nemetschek

Autodesk, Inc.

Bentley Systems Incorporation

Trimble Navigation Limited

Executive Summary

Building Information Modeling (BIM) refers to virtual or digital representation of a building or a non-building, embedded in it, its physical and functional characteristics. In other terms, BIM is a software technology, which has made 3D, 4D and 5D virtual view of a building before it actually goes on the ground. The elements of the virtual building are the digital prototype of the physical building elements such as walls, columns, windows, doors, stairs, etc. Any aspect of design performance can be simulated and assessed before it is built; thus enabling modifications in the design, making it clearly understandable. The computer generated models need precise geometry and data to support the construction, fabrication and procurement activities through which building is realized. BIM models are accessible through mobile/PCs/smartphones.

BIM is used for 3D coordination, prefabrication, record models, etc. The BIM enables collaboration among owners and design firms, reduction of rework, cost and errors, reduces the project duration and faster client approval on designs. BIM can be segmented by end user, deployment and verticals which can further be classified respectively. There are a plenty of BIM modeling tools, such as BIM authoring tools, BIM tools for shop drawing and fabrication and BIM construction management and scheduling tools.

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The global BIM market has increased over the years and is expected to grow significantly during the years 2016-2020. The global BIM market is expected to increase due to rising expenditure and investment in construction industry both residential and non-residential, increasing digitization in construction sector, growing IT investment in construction and increasing governmental adoption of BIM by several nations. Yet the market faces some challenges, such as lack of definite regulation, lack of expertise in BIM and high costs, resistance to change on part of construction managers/contractors, social obstacles and problems of interoperability.

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