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# 4D Printing Market by Material (Programmable Carbon Fiber, Programmable Wood - Custom Printed Wood Grain, Programmable Textiles), End User (Aerospace, Automotive, Clothing, Construction, Defense, Healthcare & Utility) & Geography - Global Trends & Forecasts to 2019 - 2025

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## Abstracts

4D printing is a technique that uses a 3D printer to create objects that change their shape when removed from the printer. Invented at MIT in 2013, the purpose is to make things self-assemble when exposed to air, water or heat due to the chemical interaction of the materials used in their manufacture. 4D printing consists of smart materials that adapt and reprogram their properties, functionality or shape on demand based upon external stimuli. Researchers are combining different types of plastics and fibers to create smart materials that self-assemble or change shape when they come into contact with stimuli such as heat, water or any other environmental change. The 4th dimension time refers to the self-transformation.

This report is based on an extensive research study of the 4D printing market and aims at identifying the entire market and all its sub-segments through extensively detailed classifications. The demand for the 4D printing is expected to grow moderately and gain importance among industry players across various domains over time. North America is projected to be the fastest growing markets with CAGR of 44.01% between 2019 and 2025, due to regional government and key players' involvement in development of 4D printing technology. Europe and APAC are expected to account for ~35% and ~10%, respectively in 2019.

This report is focused on giving a bird's eye-view of the industry with regards to the 4D

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printing market, with qualitative analysis at each and every aspect of the classification done on the basis of product, services, end user industry, type, and geography. The report provides a forecast of the growth of the 4D printing market from 2019 to 2025. A complete competitive landscape of the current market is analyzed from the market share analysis and rankings of current key players; all the other details of key players are discussed in their company profiles. The information provided in this report includes market share of leading companies in the 4D printing ecosystem, key developments, core strategies deployed by various players, mergers and acquisitions, new product developments, collaborations, and joint ventures of key manufacturers along with their company profiles.

The report also discusses the future of the global market with road-maps, upcoming technologies, markets, and applications with respect to 4D printing market. Key players in this industry include 3D Systems Corporation (U.S.), Autodesk Inc. (U.S.), ExOne Co. (U.S.), Hewlett-Packard Co. (U.S.), Organovo Holdings Inc. (U.S.), Stratasys Ltd. (Israel) and others.

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*Details on Business Overview, Products & Services, Key Insights, Recent Developments, SWOT Analysis, MnM View might not be captured in case of unlisted companies.

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