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Europe 3D 4D Technology - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

Market Report | 2025-04-28 | 120 pages | Mordor Intelligence

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Report description:

The Europe 3D 4D Technology Market size is estimated at USD 93.05 billion in 2025, and is expected to reach USD 254.28 billion by 2030, at a CAGR of 22.27% during the forecast period (2025-2030).

The growth of the regional 3D 4D technology market is supported by an increased adoption rate for 3D 4D technologies in different application categories, such as aviation, automobiles, and healthcare. The European healthcare industry has grown enormously in recent years due to 3D reconstruction and printing technology developments.

Key Highlights
- The region has a strong and stable R&D infrastructure, with research into the production of preservatives related to health care, which is supplemented by a cluster of educational institutions to provide appropriate training for skill development.
- In recent years, the gaming and entertainment sector has taken off as one of the main drivers for market growth in 3D and 4D technologies. While the entertainment sector increasingly uses 3D and 4D technologies to create more realistic experiences, consumers are becoming interested in this form of gaming.
- To provide services and products in 3D bioprinting, companies such as BASF have been working with French biotech company Poietis. The companies wish to use a joint 3D bioprinted skin project, which has been designed for testing and evaluating ingredients in cosmetics and beauty products.?
- The high-end 3D and 4D systems are extremely costly, requiring significant financial commitment for installation. However, these devices are susceptible and delicate, with high susceptibility to dust and contaminants. Therefore, these devices risk injuries if not properly cared for. The costs associated with maintaining 3D or 4D devices are increased by all these factors, making them unattractive to potential customers.

Europe 3D 4D Technology Market Trends

Healthcare is Expected to Hold Significant Share

- In Europe, the market for medical 3D printing is increasing because of an increased number of applications in medicine and pharmacology. Introducing and developing new technologies for the manufacture of 3D printers. 3D printing has enabled the creation of layers of human skin that sustain the lives of people who have suffered critical injuries and are suffering from major injuries. Moreover, increasing demand for customizations in implants for surgical procedures significantly contributes to the market growth.
- Furthermore, in medicine, 3D reconstruction is used to make numerous objects, like prosthetics and implants, using various materials, such as metal and plastic.?
- Printing a model of an organ can be used with 3D printing in medicine. These may be useful in training patients and giving surgeons a head start on surgical planning. Recently, when it comes to helping doctors prepare for fetal surgery, a combination of MRI and ultrasound imaging along with 3D printing technology is being used by scientists.
- From the beginning of CT scanners and mammography machines, medical imaging has advanced a great deal. By using 3D medical imaging, healthcare professionals will be able to view new angles, resolutions, and details that allow an all-round better understanding of a body part in question while at the same time cutting radiation doses for patients.
- Moreover, the 4D technology is driving a major change in health care. It has broader applications in tissue engineering, chemotherapy, and self-assembling human-scale biomaterials.

Germany is Expected to Witness Significant Growth

- One of the significant factors influencing the evolution of 3D and 4D technologies is their increasing popularity within the media & entertainment sector across Germany. Internet advertising, Virtual reality (VR), over-the-top (OTT) video and 3D Printing, 3D Scanning, 3D Visual Effects, and 3D Sound Effects are some of the new applications of 3D technology in the Entertainment industry for the development of Movies. The entertainment industries are among the most significant users of 3D and 4D technologies.
- Moreover, the popularity of 3D gaming technology and video games has grown in recent years, which is expected to increase market penetration in this region. This has caught the attention of all major industries, and efforts are being made to develop solutions based on 3D and 4D technologies following user expectations.
- Opportunities for the market are expected to arise during the forecast period due to an increasing incidence of chronic diseases, e.g., heart and kidney failures, a growing aging population, and a limited number of organ donors. In Germany alone, it is estimated that by 2035, there will be 24 billion people aged 65 years and over, making up 31 % of the total population.
- In addition, demand for 3D and 4D technology devices is expected to be created in Germany by healthy disposable income growth and intensive lifestyle change driven by increased consumption of faster production with the right technologies, further reinforcing this market.

Europe 3D 4D Technology Industry Overview

The market for 3D 4D technology in Europe is semiconsolidated due to major international and local players. The regional companies are adopting strategic partnerships, mergers, and innovations to maintain a competitive advantage in the market.

In March 2023, 3D Systems Corporation announced its innovations in digital dentistry portfolio: new materials such as a new printing platform, the NextDent LCD1, NextDent Base, and NextDent Cast, where offerings help Customers accelerate the adoption of additive manufacturing as part of their production processes and giving them the opportunity to improve the patient's experience.

In March 2023, Stratasys announced German service bureau Gotz Maschinenbau had invested in four additional production-scale Stratasys H350 3D printers to meet growing customer demand for high-quality end-use parts. The investment will increase Gtz's fleet size to a total of six systems. The new equipment is to be installed in the next 18 months.

Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

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