

E-Learning Virtual Reality Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Component (Hardware, Software), By Technology (Non-Immersive, Fully Immersive), By Application (Academic, Corporate), By Region & Competition, 2020-2030F

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Abstracts

The global E-Learning Virtual Reality Market was valued at USD 271.34 million in 2024 and is expected to reach USD 3991.71 million by 2030 with a CAGR of 56.53% through 2030. E-Learning Virtual Reality refers to the integration of immersive Virtual Reality technology into educational content, creating interactive, three-dimensional virtual environments where learners can engage with lessons in a more dynamic and experiential way. Instead of traditional classroom-based or online learning, Virtual Reality enables students to interact with simulations, conduct experiments, or explore scenarios that would be impossible or too costly in real life. This could include virtual field trips, hands-on training for complex skills, and immersive history lessons, among other applications.

The E-Learning Virtual Reality Market is poised for significant growth driven by several factors. Advancements in Virtual Reality technology, including more affordable and user-friendly headsets, are making it accessible to a broader audience, including schools, universities, and corporate training centers. As technology improves, the content becomes more realistic and engaging, further enhancing its educational value. The shift towards online and hybrid learning environments, accelerated by the Coronavirus disease pandemic, has also created a demand for innovative learning solutions, positioning Virtual Reality as a powerful tool to bridge the gap between remote and in-person education. Virtual Reality provides the ability to deliver personalized, self-paced

learning experiences, which cater to different learning styles, improving overall knowledge retention and engagement. The increasing emphasis on Science, Technology, Engineering, and Mathematics education and skill-based training in industries such as healthcare, manufacturing, and aviation also contributes to the rise of E-Learning Virtual Reality, as it allows trainees to practice high-risk procedures in a safe and controlled environment. Educational institutions and businesses are investing more in Virtual Reality for its potential to improve learning outcomes, reduce training costs, and offer more flexible learning options. As Virtual Reality technology continues to evolve, offering better graphics, interaction capabilities, and real-time feedback, the market for E-Learning Virtual Reality will continue to rise, attracting more educational providers and corporations seeking to leverage its immersive and transformative power for educational purposes. Thus, the demand for E-Learning Virtual Reality is expected to expand exponentially in the coming years, shaping the future of education and training across various sectors.

Key Market Drivers

Advancements in Virtual Reality Technology

The continuous evolution of Virtual Reality technology has significantly contributed to the rapid growth of the E-Learning Virtual Reality Market. Over the past few years, innovations in hardware, software, and user interface design have led to the development of more sophisticated, affordable, and accessible Virtual Reality tools. The introduction of high-resolution headsets, enhanced motion tracking, and more intuitive controllers has made the immersive experience much more realistic and engaging. These advancements have not only improved the quality of educational simulations but have also made them available to a broader audience, including educational institutions, corporate training facilities, and individual learners. As Virtual Reality headsets become lighter, more comfortable, and less expensive, their adoption in the educational sector has surged. The integration of augmented reality with Virtual Reality technologies further enhances the immersive experience, making it more applicable to various educational needs, from training medical professionals to teaching historical events. This technological progress makes Virtual Reality a viable solution for addressing the limitations of traditional learning methods and opens the door for innovative applications in education. As Virtual Reality technology becomes more mainstream and user-friendly, educational content developers are able to create more diverse, engaging, and interactive experiences, thus increasing the demand for Virtual Reality-based educational tools and driving the market forward. The shipments of VR headsets used in education are expected to reach over 5 million units by the end of 2025, driven by

demand from both schools and corporate training programs that are adopting VR for skills development and experiential learning.

Growing Demand for Interactive and Engaging Learning Experiences

The need for interactive and engaging learning experiences has been a significant driver of the E-Learning Virtual Reality Market. According to a study by the National Training Laboratory, learners retain 75% of what they learn when they are actively involved in the learning process, compared to only 5% for lectures and 10% for reading. Virtual Reality takes active learning a step further by offering hands-on experiences that simulate real-world scenarios. This is particularly important as more educational institutions and corporations focus on improving learning outcomes, engagement, and retention rates. The World Bank also supports this shift, noting that interactive technologies can significantly enhance learning outcomes, especially in developing economies. By using Virtual Reality, students can engage with complex concepts through simulation and practice, which has been shown to improve comprehension and problem-solving skills. For example, Virtual Reality-based training programs in the medical field have proven to be effective in reducing errors and improving decision-making by allowing medical professionals to practice critical procedures in a risk-free virtual environment. Research indicates that students who engage in immersive VR-based learning show a 70% improvement in knowledge retention compared to traditional learning methods. This has made VR an attractive tool for complex subjects such as medical training, engineering, and science simulations.

Expansion of Remote and Hybrid Learning Models

The rapid expansion of remote and hybrid learning models has been one of the most significant factors driving the growth of the E-Learning Virtual Reality Market. The United Nations Educational, Scientific and Cultural Organization (UNESCO) reported that in 2020, more than 1.6 billion students in over 190 countries were affected by school closures due to the Coronavirus disease pandemic. This global disruption led to a massive shift towards online and hybrid education, highlighting the limitations of traditional learning systems and the need for more immersive, engaging tools. Virtual Reality has emerged as an ideal solution to this problem by providing students with interactive, hands-on learning experiences, even when they are not physically present in a classroom. For example, medical students can practice surgeries in a virtual operating room, while history students can take virtual field trips to historical sites. The World Bank has emphasized the importance of embracing digital learning technologies, noting that online learning can enhance access to education in both developed and

developing countries, provided there is access to the necessary technology. As remote and hybrid learning models become permanent features of the global education landscape, the demand for Virtual Reality-based learning solutions is expected to grow exponentially. The cost of VR technology, especially standalone headsets, has decreased significantly, with prices dropping by around 30%-40% over the past 2 years. This makes it more accessible for educational institutions to integrate VR into their curricula, even in budget-conscious environments.

Cost-Effectiveness and Scalability of Virtual Reality-Based Learning Solutions

The cost-effectiveness and scalability of Virtual Reality-based learning solutions have contributed to their widespread adoption. Traditional training methods, such as in-person workshops and hands-on experiments, often involve high costs related to travel, materials, and instructors. According to a study by PwC, Virtual Reality-based training can reduce training costs by 52% compared to traditional face-to-face methods. The scalability of Virtual Reality allows organizations to provide training to a large number of employees or students simultaneously, reducing the need for expensive infrastructure. Once a Virtual Reality training program is developed, it can be distributed globally with minimal additional cost. The World Bank has highlighted that the scalability of digital learning solutions, including Virtual Reality, makes them particularly valuable for countries with limited resources, enabling them to provide quality education and training to larger populations without significant infrastructure investment. This scalability, combined with the cost savings and flexibility, makes Virtual Reality an attractive solution for educational institutions and businesses worldwide. As more organizations recognize the financial benefits of Virtual Reality-based training, the demand for these solutions is expected to rise, further rising the growth of the E-Learning Virtual Reality Market. The corporate sector is also expanding its use of VR for employee training. It's estimated that 40% of companies in industries like healthcare, manufacturing, and customer service have already integrated VR-based training modules, significantly enhancing learning experiences and practical skill-building.

Key Market Challenges

High Initial Investment Costs and Infrastructure Challenges

One of the primary challenges hindering the widespread adoption of Virtual Reality in E-Learning is the high initial investment required for both the hardware and infrastructure. Virtual Reality systems require specialized equipment, including headsets, motion sensors, and computers with high processing power, which can be expensive. For

educational institutions, training centers, and corporations looking to implement Virtual Reality-based learning programs, the upfront cost can be a significant barrier. According to a report by the International Data Corporation, the average price for a Virtual Reality headset suitable for educational purposes ranges from USD 400 to USD 1,000 or more, depending on the features and specifications. In addition to hardware, creating immersive content that is suitable for learning also requires investments in software development, skilled professionals, and specialized platforms. Content creation, particularly for industries like healthcare or engineering, can involve significant costs due to the complexity and realism required in simulations. These financial burdens make it challenging for smaller educational institutions, particularly in developing regions, to adopt and integrate Virtual Reality into their curriculums. Implementing a Virtual Reality-based learning system also necessitates robust technological infrastructure, including high-speed internet connectivity, secure data storage, and support systems. In many regions, especially in low-income countries, these infrastructure challenges limit the feasibility of Virtual Reality adoption. For Virtual Reality to function effectively, students need reliable internet access and the ability to stream high-quality content. However, in areas with inadequate internet bandwidth or inconsistent access to power, this requirement becomes a barrier to entry. Educational institutions must invest in training staff and administrators to operate and maintain the Virtual Reality systems, which can be another costly endeavor. Without the proper infrastructure and resources, the return on investment for Virtual Reality in education can be significantly delayed, limiting its growth potential.

Content Development and Adaptation to Diverse Educational Needs

Another significant challenge faced by the E-Learning Virtual Reality Market is the complexity involved in developing high-quality, engaging, and educational content. Virtual Reality-based learning requires tailored, interactive, and immersive experiences that can meet the diverse needs of different learners, ranging from primary school students to professionals in specialized industries. The process of developing such content is resource-intensive, requiring collaboration between subject matter experts, educators, content creators, and technology developers. This creates a bottleneck in the scalability and availability of Virtual Reality learning resources, as creating immersive and high-quality simulations takes time, effort, and expertise.

For example, in fields such as medicine, engineering, and aviation, the content must be highly specialized to reflect real-world challenges accurately. Developing these specialized simulations requires a deep understanding of both the subject matter and the technology, which can be a significant obstacle for educational institutions or

training providers lacking the necessary resources. Educational content needs to be adaptable to various learner needs, ensuring that it aligns with different learning styles, levels of expertise, and educational goals. In addition, creating Virtual Reality-based learning that is both educational and engaging is a delicate balance; if the content is not immersive or interactive enough, students may fail to engage with it effectively. This challenge is particularly pronounced in K-12 education, where content must be both engaging and age-appropriate, ensuring that students not only learn but also enjoy the process. Further complicating this challenge is the need for continuous updates to keep the content relevant and up to date with industry standards. For instance, in industries like healthcare and technology, procedures and best practices evolve rapidly, and the Virtual Reality content used for training must reflect these changes.

User Adoption and Technological Barriers

Despite the potential of Virtual Reality to transform education, user adoption remains a significant challenge in the E-Learning Virtual Reality Market. Many educators, trainers, and students are still unfamiliar with Virtual Reality technology, and transitioning from traditional learning methods to Virtual Reality-based education can be difficult. According to a report by the European Commission, approximately 48% of educational institutions in Europe reported that teachers were either not fully trained in digital technologies or did not possess the skills required to incorporate them effectively into the classroom. This highlights a critical gap in the educational workforce's preparedness to embrace new technologies such as Virtual Reality. There are concerns related to the user experience with Virtual Reality in education. Some students and educators may find Virtual Reality equipment uncomfortable to use for extended periods, especially considering the weight of headsets, motion sickness, and the need for appropriate physical space. Users may experience eye strain or dizziness, known as cybersickness, which can reduce the effectiveness of the learning experience and deter engagement with the technology. Some students may not have access to the required hardware at home, especially in remote or low-income areas, limiting the ability of these learners to fully benefit from Virtual Reality-based education. This lack of accessibility could widen the digital divide between those who have access to cutting-edge educational technologies and those who do not. There are also significant concerns related to the digital literacy of students and educators. The integration of Virtual Reality requires a certain level of technical skill to operate the devices, interact with the software, and troubleshoot potential issues. Without proper training and support, both educators and learners may struggle to effectively use the technology, reducing its potential impact on education. As such, for Virtual Reality to gain wider adoption, there needs to be a concerted effort to train and support users, ensuring they feel comfortable

and confident in utilizing the technology. Without this focus on user education, the growth of the E-Learning Virtual Reality Market will be slow, as resistance to change, combined with technological barriers, could delay widespread acceptance of this innovative learning tool.

Key Market Trends

Integration of Artificial Intelligence with Virtual Reality in E-Learning

A key trend driving the E-Learning Virtual Reality Market is the integration of Artificial Intelligence with Virtual Reality technologies to create more personalized, adaptive, and effective learning experiences. Artificial Intelligence enables Virtual Reality systems to analyze user behavior in real time, adjusting content delivery to better meet individual learning needs. For example, an Artificial Intelligence algorithm can assess a student's progress within a Virtual Reality-based learning module and modify the difficulty level of tasks or simulations based on performance, providing a customized learning journey that can help learners absorb information more efficiently. Artificial Intelligence-powered Virtual Reality systems can provide real-time feedback, helping learners correct mistakes or improve performance without needing immediate human intervention. In fields like healthcare or aviation, where skill development is critical, this combination of technologies allows for more effective training simulations and practice sessions. Artificial Intelligence also helps in monitoring learner engagement, allowing instructors or educational systems to track student progress and intervene when necessary. As the capabilities of Artificial Intelligence continue to evolve, the integration with Virtual Reality will lead to increasingly sophisticated and tailored educational experiences, boosting the growth of the E-Learning Virtual Reality Market.

Rise of Collaborative Virtual Learning Environments

Another important trend in the E-Learning Virtual Reality Market is the rise of collaborative virtual learning environments. Virtual Reality is not just transforming individual learning experiences; it is also enabling students to interact with one another in virtual classrooms or collaborative spaces. By using Virtual Reality, learners can engage in group discussions, problem-solving exercises, and team projects, all within a shared, immersive virtual space, despite being in different geographical regions. For example, Virtual Reality allows students to conduct group activities like designing architectural models, participating in simulated scientific experiments, or solving complex engineering challenges together. These collaborative learning experiences enhance teamwork, communication, and collaboration skills, which are essential in both

academic and professional settings. Educational institutions are increasingly leveraging these environments to provide learners with more interactive and social learning experiences, thereby improving engagement, motivation, and the effectiveness of education. This trend is being supported by advances in Virtual Reality platforms that allow for multi-user interaction, as well as improvements in internet infrastructure, making virtual collaboration more seamless. As more institutions adopt Virtual Reality technologies, collaborative virtual learning environments are expected to become a standard feature of E-Learning systems, driving further growth in the market.

Expansion of E-Learning Virtual Reality in Corporate Training

The use of E-Learning Virtual Reality for corporate training is another growing trend that is helping to accelerate the market's expansion. In industries like healthcare, manufacturing, aviation, and finance, Virtual Reality offers organizations a cost-effective and efficient way to train employees on complex tasks and scenarios that are difficult or dangerous to replicate in real life. For example, employees can practice emergency response procedures, technical troubleshooting, or equipment handling in a controlled virtual environment, allowing them to gain hands-on experience without the risk of injury or significant operational costs. Virtual Reality in corporate training also allows for scalable training solutions that can be accessed remotely, reducing the need for in-person sessions and providing employees with the flexibility to learn at their own pace. As companies increasingly recognize the advantages of immersive, experiential training over traditional methods, Virtual Reality-based corporate training programs are becoming more popular. Industries are embracing Virtual Reality to provide simulations that are more engaging, improving knowledge retention and skill acquisition. The trend of adopting Virtual Reality in corporate training is expected to grow, driven by the need for continuous skill development and the increasing demand for innovative, efficient learning solutions within organizations.

Segmental Insights

Technology Insights

Fully immersive segment dominated the E-Learning Virtual Reality Market in 2024 and is expected to maintain its dominance during the forecast period. Fully immersive Virtual Reality experiences offer the highest level of interaction and engagement, making them particularly effective for educational and training applications. This technology creates a completely virtual environment in which users can interact with the surroundings through headsets, motion tracking, and haptic feedback, offering a sense of presence

and realism. The ability to immerse learners in realistic simulations, such as virtual medical surgeries, engineering design tasks, or historical reconstructions, enhances engagement, retention, and practical skills. Fully immersive Virtual Reality experiences are particularly popular in specialized training sectors, including healthcare, aviation, and military training, where real-world practice is either too costly or dangerous. According to industry reports, the demand for fully immersive learning experiences is on the rise due to the increasing need for high-quality, practical, and engaging training tools across various industries. While non-immersive Virtual Reality systems, which provide a more basic level of interaction through screens or limited devices, are still widely used in education, they do not offer the same depth of experience or hands-on engagement as fully immersive systems. As advancements in hardware and software continue to reduce costs and improve user experience, the fully immersive segment is poised to grow even further. The increasing adoption of immersive learning for both educational institutions and corporate training programs solidifies the dominance of fully immersive Virtual Reality in the E-Learning Virtual Reality Market, with its potential to revolutionize how learners engage with complex, real-world concepts.

Regional Insights

North America dominated the E-Learning Virtual Reality Market in 2024 and is anticipated to maintain its leadership throughout the forecast period. The region's leadership in the market can be attributed to several factors, including advanced technological infrastructure, high adoption of innovative learning solutions, and significant investments in Virtual Reality technologies across both educational institutions and corporate sectors. The United States, in particular, has been at the forefront of integrating Virtual Reality into educational settings, from K-12 schools to higher education institutions, as well as in corporate training programs. The increasing demand for immersive learning experiences in industries such as healthcare, aerospace, and manufacturing further drive the market growth in North America. The presence of key players in the Virtual Reality and education technology sectors, such as companies focused on software development, hardware manufacturing, and content creation, has contributed to the region's strong market position. Substantial government initiatives and funding for educational technologies have provided a supportive environment for the adoption of Virtual Reality in learning environments. With the continuous evolution of both hardware and software, the cost of Virtual Reality systems has also been decreasing, making them more accessible to educational institutions and organizations in North America. The region is expected to maintain its dominance due to its robust technological infrastructure, continuous innovation, and a strong focus on enhancing the effectiveness and engagement of learning experiences, positioning North

America as the leader in the E-Learning Virtual Reality Market during the forecast period.

Key Market Players

Microsoft Corporation

Sony Corporation

HTC Corporation

Google LLC

Samsung Electronics Co., Ltd.

Magic Leap, Inc.

PICO Immersive Pte. Ltd.

EON Reality, Inc.

Vuzix Corporation

eXp World Technologies, LLC (Virbela)

Report Scope:

In this report, the Global E-Learning Virtual Reality Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

E-Learning Virtual Reality Market, By Component:

Hardware

Software

E-Learning Virtual Reality Market, By Technology:

Non-Immersive

Fully Immersive

E-Learning Virtual Reality Market, By Application:

Academic

Corporate

E-Learning Virtual Reality Market, By Region:

North America

United States

Canada

Mexico

Europe

Germany

France

United Kingdom

Italy

Spain

Belgium

Asia-Pacific

China

India

Japan

South Korea

Australia

Indonesia

Vietnam

South America

Brazil

Colombia

Argentina

Chile

Middle East & Africa

Saudi Arabia

UAE

South Africa

Turkey

Israel

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global E-Learning Virtual Reality Market.

Available Customizations:

Global E-Learning Virtual Reality Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. SOLUTION OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Formulation of the Scope
- 2.4. Assumptions and Limitations
- 2.5. Sources of Research
 - 2.5.1. Secondary Research
 - 2.5.2. Primary Research
- 2.6. Approach for the Market Study
 - 2.6.1. The Bottom-Up Approach
 - 2.6.2. The Top-Down Approach
- 2.7. Methodology Followed for Calculation of Market Size & Market Shares
- 2.8. Forecasting Methodology
 - 2.8.1. Data Triangulation & Validation

3. EXECUTIVE SUMMARY

4. VOICE OF CUSTOMER

5. GLOBAL E-LEARNING VIRTUAL REALITY MARKET OVERVIEW

6. GLOBAL E-LEARNING VIRTUAL REALITY MARKET OUTLOOK

- 6.1. Market Size & Forecast
 - 6.1.1. By Value
- 6.2. Market Share & Forecast
 - 6.2.1. By Component (Hardware, Software)
 - 6.2.2. By Technology (Non-Immersive, Fully Immersive)

- 6.2.3. By Application (Academic, Corporate)
- 6.2.4. By Region (North America, Europe, South America, Middle East & Africa, Asia Pacific)
- 6.3. By Company (2024)
- 6.4. Market Map

7. NORTH AMERICA E-LEARNING VIRTUAL REALITY MARKET OUTLOOK

- 7.1. Market Size & Forecast
 - 7.1.1. By Value
- 7.2. Market Share & Forecast
 - 7.2.1. By Component
 - 7.2.2. By Technology
 - 7.2.3. By Application
 - 7.2.4. By Country
- 7.3. North America: Country Analysis
 - 7.3.1. United States E-Learning Virtual Reality Market Outlook
 - 7.3.1.1. Market Size & Forecast
 - 7.3.1.1.1. By Value
 - 7.3.1.2. Market Share & Forecast
 - 7.3.1.2.1. By Component
 - 7.3.1.2.2. By Technology
 - 7.3.1.2.3. By Application
 - 7.3.2. Canada E-Learning Virtual Reality Market Outlook
 - 7.3.2.1. Market Size & Forecast
 - 7.3.2.1.1. By Value
 - 7.3.2.2. Market Share & Forecast
 - 7.3.2.2.1. By Component
 - 7.3.2.2.2. By Technology
 - 7.3.2.2.3. By Application
 - 7.3.3. Mexico E-Learning Virtual Reality Market Outlook
 - 7.3.3.1. Market Size & Forecast
 - 7.3.3.1.1. By Value
 - 7.3.3.2. Market Share & Forecast
 - 7.3.3.2.1. By Component
 - 7.3.3.2.2. By Technology
 - 7.3.3.2.3. By Application

8. EUROPE E-LEARNING VIRTUAL REALITY MARKET OUTLOOK

8.1. Market Size & Forecast

8.1.1. By Value

8.2. Market Share & Forecast

8.2.1. By Component

8.2.2. By Technology

8.2.3. By Application

8.2.4. By Country

8.3. Europe: Country Analysis

8.3.1. Germany E-Learning Virtual Reality Market Outlook

8.3.1.1. Market Size & Forecast

8.3.1.1.1. By Value

8.3.1.2. Market Share & Forecast

8.3.1.2.1. By Component

8.3.1.2.2. By Technology

8.3.1.2.3. By Application

8.3.2. France E-Learning Virtual Reality Market Outlook

8.3.2.1. Market Size & Forecast

8.3.2.1.1. By Value

8.3.2.2. Market Share & Forecast

8.3.2.2.1. By Component

8.3.2.2.2. By Technology

8.3.2.2.3. By Application

8.3.3. United Kingdom E-Learning Virtual Reality Market Outlook

8.3.3.1. Market Size & Forecast

8.3.3.1.1. By Value

8.3.3.2. Market Share & Forecast

8.3.3.2.1. By Component

8.3.3.2.2. By Technology

8.3.3.2.3. By Application

8.3.4. Italy E-Learning Virtual Reality Market Outlook

8.3.4.1. Market Size & Forecast

8.3.4.1.1. By Value

8.3.4.2. Market Share & Forecast

8.3.4.2.1. By Component

8.3.4.2.2. By Technology

8.3.4.2.3. By Application

8.3.5. Spain E-Learning Virtual Reality Market Outlook

8.3.5.1. Market Size & Forecast

- 8.3.5.1.1. By Value
- 8.3.5.2. Market Share & Forecast
 - 8.3.5.2.1. By Component
 - 8.3.5.2.2. By Technology
 - 8.3.5.2.3. By Application
- 8.3.6. Belgium E-Learning Virtual Reality Market Outlook
 - 8.3.6.1. Market Size & Forecast
 - 8.3.6.1.1. By Value
 - 8.3.6.2. Market Share & Forecast
 - 8.3.6.2.1. By Component
 - 8.3.6.2.2. By Technology
 - 8.3.6.2.3. By Application

9. ASIA PACIFIC E-LEARNING VIRTUAL REALITY MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Component
 - 9.2.2. By Technology
 - 9.2.3. By Application
 - 9.2.4. By Country
- 9.3. Asia Pacific: Country Analysis
 - 9.3.1. China E-Learning Virtual Reality Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value
 - 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Component
 - 9.3.1.2.2. By Technology
 - 9.3.1.2.3. By Application
 - 9.3.2. India E-Learning Virtual Reality Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Component
 - 9.3.2.2.2. By Technology
 - 9.3.2.2.3. By Application
 - 9.3.3. Japan E-Learning Virtual Reality Market Outlook
 - 9.3.3.1. Market Size & Forecast

- 9.3.3.1.1. By Value
- 9.3.3.2. Market Share & Forecast
 - 9.3.3.2.1. By Component
 - 9.3.3.2.2. By Technology
 - 9.3.3.2.3. By Application
- 9.3.4. South Korea E-Learning Virtual Reality Market Outlook
 - 9.3.4.1. Market Size & Forecast
 - 9.3.4.1.1. By Value
 - 9.3.4.2. Market Share & Forecast
 - 9.3.4.2.1. By Component
 - 9.3.4.2.2. By Technology
 - 9.3.4.2.3. By Application
- 9.3.5. Australia E-Learning Virtual Reality Market Outlook
 - 9.3.5.1. Market Size & Forecast
 - 9.3.5.1.1. By Value
 - 9.3.5.2. Market Share & Forecast
 - 9.3.5.2.1. By Component
 - 9.3.5.2.2. By Technology
 - 9.3.5.2.3. By Application
- 9.3.6. Indonesia E-Learning Virtual Reality Market Outlook
 - 9.3.6.1. Market Size & Forecast
 - 9.3.6.1.1. By Value
 - 9.3.6.2. Market Share & Forecast
 - 9.3.6.2.1. By Component
 - 9.3.6.2.2. By Technology
 - 9.3.6.2.3. By Application
- 9.3.7. Vietnam E-Learning Virtual Reality Market Outlook
 - 9.3.7.1. Market Size & Forecast
 - 9.3.7.1.1. By Value
 - 9.3.7.2. Market Share & Forecast
 - 9.3.7.2.1. By Component
 - 9.3.7.2.2. By Technology
 - 9.3.7.2.3. By Application

10. SOUTH AMERICA E-LEARNING VIRTUAL REALITY MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value
- 10.2. Market Share & Forecast

- 10.2.1. By Component
- 10.2.2. By Technology
- 10.2.3. By Application
- 10.2.4. By Country
- 10.3. South America: Country Analysis
 - 10.3.1. Brazil E-Learning Virtual Reality Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value
 - 10.3.1.2. Market Share & Forecast
 - 10.3.1.2.1. By Component
 - 10.3.1.2.2. By Technology
 - 10.3.1.2.3. By Application
 - 10.3.2. Colombia E-Learning Virtual Reality Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value
 - 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Component
 - 10.3.2.2.2. By Technology
 - 10.3.2.2.3. By Application
 - 10.3.3. Argentina E-Learning Virtual Reality Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Component
 - 10.3.3.2.2. By Technology
 - 10.3.3.2.3. By Application
 - 10.3.4. Chile E-Learning Virtual Reality Market Outlook
 - 10.3.4.1. Market Size & Forecast
 - 10.3.4.1.1. By Value
 - 10.3.4.2. Market Share & Forecast
 - 10.3.4.2.1. By Component
 - 10.3.4.2.2. By Technology
 - 10.3.4.2.3. By Application

11. MIDDLE EAST & AFRICA E-LEARNING VIRTUAL REALITY MARKET OUTLOOK

- 11.1. Market Size & Forecast
 - 11.1.1. By Value

11.2. Market Share & Forecast

11.2.1. By Component

11.2.2. By Technology

11.2.3. By Application

11.2.4. By Country

11.3. Middle East & Africa: Country Analysis

11.3.1. Saudi Arabia E-Learning Virtual Reality Market Outlook

11.3.1.1. Market Size & Forecast

11.3.1.1.1. By Value

11.3.1.2. Market Share & Forecast

11.3.1.2.1. By Component

11.3.1.2.2. By Technology

11.3.1.2.3. By Application

11.3.2. UAE E-Learning Virtual Reality Market Outlook

11.3.2.1. Market Size & Forecast

11.3.2.1.1. By Value

11.3.2.2. Market Share & Forecast

11.3.2.2.1. By Component

11.3.2.2.2. By Technology

11.3.2.2.3. By Application

11.3.3. South Africa E-Learning Virtual Reality Market Outlook

11.3.3.1. Market Size & Forecast

11.3.3.1.1. By Value

11.3.3.2. Market Share & Forecast

11.3.3.2.1. By Component

11.3.3.2.2. By Technology

11.3.3.2.3. By Application

11.3.4. Turkey E-Learning Virtual Reality Market Outlook

11.3.4.1. Market Size & Forecast

11.3.4.1.1. By Value

11.3.4.2. Market Share & Forecast

11.3.4.2.1. By Component

11.3.4.2.2. By Technology

11.3.4.2.3. By Application

11.3.5. Israel E-Learning Virtual Reality Market Outlook

11.3.5.1. Market Size & Forecast

11.3.5.1.1. By Value

11.3.5.2. Market Share & Forecast

11.3.5.2.1. By Component

11.3.5.2.2. By Technology

11.3.5.2.3. By Application

12. MARKET DYNAMICS

12.1. Drivers

12.2. Challenges

13. MARKET TRENDS AND DEVELOPMENTS

14. COMPANY PROFILES

14.1. Microsoft Corporation

14.1.1. Business Overview

14.1.2. Key Revenue and Financials

14.1.3. Recent Developments

14.1.4. Key Personnel/Key Contact Person

14.1.5. Key Product/Services Offered

14.2. Sony Corporation

14.2.1. Business Overview

14.2.2. Key Revenue and Financials

14.2.3. Recent Developments

14.2.4. Key Personnel/Key Contact Person

14.2.5. Key Product/Services Offered

14.3. HTC Corporation

14.3.1. Business Overview

14.3.2. Key Revenue and Financials

14.3.3. Recent Developments

14.3.4. Key Personnel/Key Contact Person

14.3.5. Key Product/Services Offered

14.4. Google LLC

14.4.1. Business Overview

14.4.2. Key Revenue and Financials

14.4.3. Recent Developments

14.4.4. Key Personnel/Key Contact Person

14.4.5. Key Product/Services Offered

14.5. Samsung Electronics Co., Ltd.

14.5.1. Business Overview

14.5.2. Key Revenue and Financials

- 14.5.3. Recent Developments
- 14.5.4. Key Personnel/Key Contact Person
- 14.5.5. Key Product/Services Offered

14.6. Magic Leap, Inc.

- 14.6.1. Business Overview
- 14.6.2. Key Revenue and Financials
- 14.6.3. Recent Developments
- 14.6.4. Key Personnel/Key Contact Person
- 14.6.5. Key Product/Services Offered

14.7. PICO Immersive Pte. Ltd.

- 14.7.1. Business Overview
- 14.7.2. Key Revenue and Financials
- 14.7.3. Recent Developments
- 14.7.4. Key Personnel/Key Contact Person
- 14.7.5. Key Product/Services Offered

14.8. EON Reality, Inc.

- 14.8.1. Business Overview
- 14.8.2. Key Revenue and Financials
- 14.8.3. Recent Developments
- 14.8.4. Key Personnel/Key Contact Person
- 14.8.5. Key Product/Services Offered

14.9. Vuzix Corporation

- 14.9.1. Business Overview
- 14.9.2. Key Revenue and Financials
- 14.9.3. Recent Developments
- 14.9.4. Key Personnel/Key Contact Person
- 14.9.5. Key Product/Services Offered

14.10. eXp World Technologies, LLC (Virbela)

- 14.10.1. Business Overview
- 14.10.2. Key Revenue and Financials
- 14.10.3. Recent Developments
- 14.10.4. Key Personnel/Key Contact Person
- 14.10.5. Key Product/Services Offered

15. STRATEGIC RECOMMENDATIONS

16. ABOUT US & DISCLAIMER

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