Human Augmentation Market worth $721.44 billion by 2030, growing at a CAGR of 15.89% - Exclusive Report by 360iResearch

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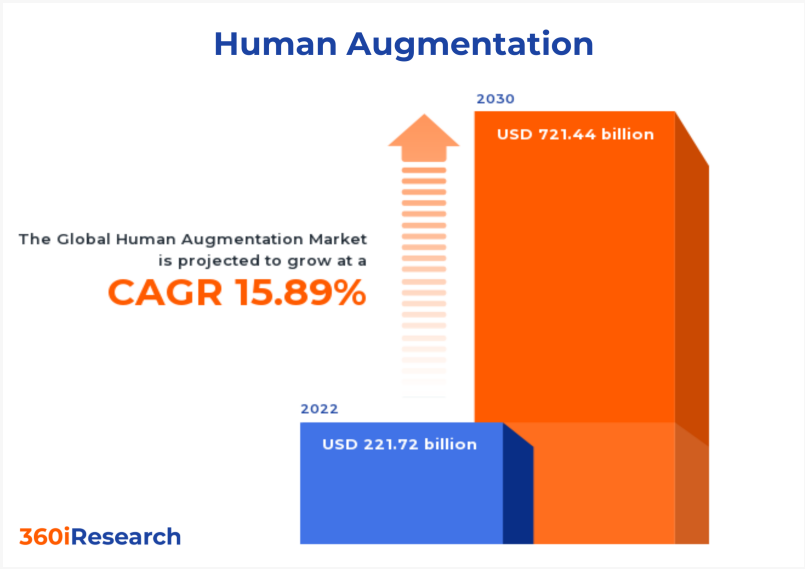

Human Augmentation Market - Exclusive Report by 360iResearch

PUNE, MAHARASHTRA, INDIA, November 16, 2023 / EINPresswire.com/ -- The "Human Augmentation Market by Type (Augmented Reality Device, Biometric System, Exoskeletons), Functionality (Body Worn, Non-Body Worn), End-use - Global Forecast 2023-2030" report has been added to 360iResearch.com's offering.

The Global Human Augmentation Market to grow from USD 221.72 billion in 2022 to USD 721.44 billion by 2030, at a CAGR of 15.89%.

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Human augmentation includes the use of technology and various means to improve the capabilities and attributes of the human body and mind. It involves the integration of external components, such as technological devices, implants, and prosthetics, to enhance human functions, extending beyond natural human capabilities. Human augmentation technologies encompass a wide range of applications, including physical enhancements, cognitive improvements, sensory augmentations, and even biohacking. Growing awareness and acceptance of cognitive and physical enhancement applications serve as catalysts for market growth. Expanding the application of human augmentation technologies in the military to enhance soldiers' physical and cognitive capabilities is driving market growth. The lack of universal standards and guidelines regarding the use and application of human augmentation

technologies hampers market growth. Additionally, high costs associated with research, development, and the eventual application of human augmentation technologies impede market growth. Rapid developments in fields such as robotics, artificial intelligence, and biotechnology by market vendors that enable the creation of more sophisticated and effective human augmentation devices and solutions are expected to create opportunities for market growth.

Type: Expanding usage of augmented reality devices to provide hands-free data access and navigation guidance

Augmented reality (AR) devices are wearable technologies that overlay digital information and virtual objects on the physical world. They meet the need for enhanced user experiences and productivity. They are in high demand due to their ability to provide hands-free data access and navigation guidance. Biometric technologies such as fingerprint/iris scanners and facial recognition systems are used for authentication and identification and are preferred for their convenience and security. Biometric systems are automated methods of verifying or recognizing the identity of a living person based on a physiological or behavioral characteristic. Exoskeletons are wearable mobile machines that work in conjunction with and augment human capabilities. They fit around the torso and limbs and use powered joints and links to increase strength and endurance. Exoskeletons are often used to aid human mobility and make physical tasks easier. Intelligent virtual assistants (IVAs) are software agents that understand voice commands and natural language to assist humans with various tasks. IVAs are integrated into a range of internet-connected devices and platforms to augment human capabilities in a convenient, hands-free fashion. Virtual reality (VR) devices transport users into an immersive computer-generated environment. VR is used for gaming, entertainment, education, training, and simulation. The highly immersive experience offered through VR augments human perception, cognition, and physical capabilities. Wearable devices are integrated into items of clothing or accessories to provide enhanced capabilities. More advanced wearables could provide augmented reality displays, track eye movements and brain activity, and enhance human physical strength or endurance.

End-user: Increasing application of human augmentation technologies in the manufacturing sector to improve worker productivity and efficiency

In the aerospace & defense sector, human augmentation technologies are employed to enhance physical and cognitive abilities, ensuring superior performance and safety. Exosuits and exoskeletons human augmentation devices augment soldiers' physical strength and endurance, reducing fatigue during long missions and providing enhanced mobility. In healthcare, human augmentation technologies play a crucial role in rehabilitation, patient care, and improving the lives of individuals with disabilities. Prosthetics human augmentation enhances mobility and quality of life for amputees. Wearable monitors and health-tracking devices assist in managing chronic conditions and provide real-time health data for patients and healthcare providers. Human augmentation technologies are integral in the manufacturing sector to improve worker productivity, safety, and efficiency. Exoskeletons wearable devices reduce the physical strain on workers, particularly in industries involving heavy lifting or repetitive tasks. Human augmentation technologies offer immersive experiences and creative possibilities in the media &

entertainment sector. These technologies enable immersive gaming, interactive storytelling, and enhanced experiences in theme parks and entertainment venues.

Functionality: Increasing usage of body-worn human augmentation to enhance mobility and endurance
Body-worn human augmentation involves devices physically attached to the body, such as exoskeletons, wearable health monitors, and prosthetics, enhancing physical abilities. These body-worn human devices are often used in manufacturing and healthcare industries to enhance strength, mobility, and endurance. Non-body-worn human augmentation includes technologies, including neurotechnology and implantable devices that provide enhancements without physical attachment, focusing on cognitive or sensory augmentation. These technologies do not require physical attachment to the body and are often focused on cognitive or sensory augmentation.

Regional Insights:
The human augmentation market in the Americas represents a highly developing landscape due to the presence of native market players focusing on continuous advancements in robotics, artificial intelligence, and augmented reality. North America, particularly the United States, has been a key contributor, with increasing investments in exoskeletons, neural control interfaces, and prosthetic technologies. The region's focus on enhancing human capabilities in healthcare, military, and industrial sectors has spurred market expansion. The APAC human augmentation market has seen notable growth due to the region's expanding healthcare and manufacturing sectors. Countries such as Japan and South Korea have been at the forefront of developing robotic exoskeletons and wearable devices for healthcare and elderly care applications. This region's market is characterized by a diverse range of applications, from medical devices to industrial exoskeletons, reflecting the wide adoption of human augmentation technologies. Ongoing research in bionic eye installations and considerable funding support from the European Commission underlined the growing interest in human augmentation, creating a platform for market growth in Europe. The Middle East and Africa regions have also shown growing interest, with investments in bionic limbs and assistive technologies for healthcare and rehabilitation. The diverse range of applications, coupled with the region's commitment to research and development, has contributed to the expansion of the human augmentation market throughout EMEA.

FPNV Positioning Matrix:

The FPNV Positioning Matrix is essential for assessing the Human Augmentation Market. It provides a comprehensive evaluation of vendors by examining key metrics within Business Strategy and Product Satisfaction, allowing users to make informed decisions based on their specific needs. This advanced analysis then organizes these vendors into four distinct quadrants, which represent varying levels of success: Forefront (F), Pathfinder (P), Niche (N), or Vital(V).

Market Share Analysis:

The Market Share Analysis offers an insightful look at the current state of vendors in the Human Augmentation Market. By comparing vendor contributions to overall revenue, customer base, and other key metrics, we can give companies a greater understanding of their performance and what they are up against when competing for market share. The analysis also sheds light on just how competitive any given sector is about accumulation, fragmentation dominance, and amalgamation traits over the base year period studied.

Key Company Profiles:

The report delves into recent significant developments in the Human Augmentation Market, highlighting leading vendors and their innovative profiles. These include Aptima, Inc., Atheer, Inc., B-Temia Inc., Charles River Analytics, Inc., CYBERDYNE Inc., Ekso Bionics Holdings Inc., Esper Bionics Inc., Garmin Limited, General Motors Company, Google LLC by Alphabet, Inc., Hocoma AG, Kyocera Corporation, Lifesense Group, Magic Leap Inc., Meta Platforms, Inc., Microsoft Corporation, Ottobock SE & Co. KGaA, Panasonic Corporation, Rewalk Robotics Inc., Rex Bionics Ltd, Samsung Electronics Co. Ltd., Soar Technology, Inc., Sony Group Corporation, and Vuzix Corporation.

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Market Segmentation & Coverage:

This research report categorizes the Human Augmentation Market in order to forecast the revenues and analyze trends in each of following sub-markets:

Based on Type, market is studied across Augmented Reality Device, Biometric System, Exoskeletons, Intelligent Virtual Assistants, Virtual Reality Device, and Wearable Device. The Exoskeletons is projected to witness significant market share during forecast period.

Based on Functionality, market is studied across Body Worn and Non-Body Worn. The Body Worn is projected to witness significant market share during forecast period.

Based on End-use, market is studied across Aerospace & Defense, Healthcare, Manufacturing, and Media & Entertainment. The Aerospace & Defense is projected to witness significant market share during forecast period.

Based on Region, market is studied across Americas, Asia-Pacific, and Europe, Middle East & Africa. The Americas is further studied across Argentina, Brazil, Canada, Mexico, and United States. The United States is further studied across California, Florida, Illinois, New York, Ohio, Pennsylvania, and Texas. The Asia-Pacific is further studied across Australia, China, India, Indonesia, Japan, Malaysia, Philippines, Singapore, South Korea, Taiwan, Thailand, and Vietnam.

The Europe, Middle East & Africa is further studied across Denmark, Egypt, Finland, France, Germany, Israel, Italy, Netherlands, Nigeria, Norway, Poland, Qatar, Russia, Saudi Arabia, South Africa, Spain, Sweden, Switzerland, Turkey, United Arab Emirates, and United Kingdom. The Americas commanded largest market share of 38.07% in 2022, followed by Europe, Middle East & Africa.

Key Topics Covered:

The report provides insights on the following pointers:
1. Market Penetration: Provides comprehensive information on the market offered by the key players
2. Market Development: Provides in-depth information about lucrative emerging markets and analyzes penetration across mature segments of the markets
3. Market Diversification: Provides detailed information about new product launches, untapped geographies, recent developments, and investments
4. Competitive Assessment & Intelligence: Provides an exhaustive assessment of market shares, strategies, products, certification, regulatory approvals, patent landscape, and manufacturing capabilities of the leading players
5. Product Development & Innovation: Provides intelligent insights on future technologies, R&D activities, and breakthrough product developments

The report answers questions such as:
1. What is the market size and forecast of the Human Augmentation Market?
2. Which are the products/segments/applications/areas to invest in over the forecast period in the Human Augmentation Market?
3. What is the competitive strategic window for opportunities in the Human Augmentation Market?
4. What are the technology trends and regulatory frameworks in the Human Augmentation

Market?
5. What is the market share of the leading vendors in the Human Augmentation Market?
6. What modes and strategic moves are considered suitable for entering the Human Augmentation Market?

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