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Asia Pacific Smart Life Sciences Manufacturing Market Forecast to 2033 - Regional Analysis - by Component (Solutions and Services), Technology [AR/VR Systems, Internet of Things (IoT), Artificial Intelligence (AI), Cybersecurity, Big Data, and Others], and Application (Pharma, Bio-Pharma, and Medical Device)

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Abstracts

The Asia Pacific smart life sciences manufacturing market is expected to grow from US$ 5,489.57 million in 2023 to US$ 23,857.44 million by 2033. It is estimated to grow at a CAGR of 15.8% from 2023 to 2033.

Connection to Data Silos Fuel Asia Pacific Smart Life Sciences Manufacturing Market

A data silo is a storehouse of data that is separated from the rest of the organization and these repositories are mostly controlled by one department. Different reasons can drive the formation of data silos; a few of these include improper management, time-consuming stuff, inferior infrastructure, inter-department competition, and variable data sources. The concerned departments may make a data silo to protect patient's health information, in accordance with government regulations surrounding data privacy and security. The present volume of medical data is too big, and it is growing at a faster rate than before. Traditional software techniques are not sufficient to process these data. However, companies that have big data or machine learning tools may benefit from such huge volumes of medical data. Further, big data analytics can process both structured and unstructured data to convert it into meaningful information.

The connection of data silos is increasing, which is likely to result in better access to

insights and data leads, eventually supporting creative research. Large data allows more efficient data research and accelerates the innovation process. Technologies such as blockchain and AI will help to break the isolated data silos. Blockchain technology can provide a visible and secure way to exchange data within and among research organizations and pharmaceutical companies. AI collects and analyzes vast volumes of data obtained from different sources in different formats, filtering relevant insights from noise and providing an understanding of the context.

Asia Pacific Smart Life Sciences Manufacturing Market Overview

Asia Pacific is one of the fastest developing regions. The Asia Pacific smart life sciences manufacturing market is segmented into China, Japan, India, Australia, South Korea, and the Rest of Asia Pacific. The presence of rapidly growing countries is likely to create ample opportunities for smart life sciences manufacturers in the coming years. The developing healthcare industry; rising collaborations among market players; and increasing implementation of advanced technologies such as artificial intelligence, augmented reality, virtual reality, big data analytics, and others by manufacturers are expected to drive the market growth in the coming years. In 2022, the Singapore Government launched Biologics Pharma Innovation Programme Singapore (BioPIPS) to increase the country’s manufacturing capacity for biologics, including recombinant proteins and vaccines. GSK, Sanofi, and Takeda have joined the BioPIPS project alongside the National University of Singapore, Nanyang Technological University, and the Singapore Institute of Technology (SIT). Sanofi is building a next-generation manufacturing site, the Evolutive Facility, in Singapore, which will bring advanced digital and modular vaccine production capabilities to Asia.

Asia Pacific Smart Life Sciences Manufacturing Market Revenue and Forecast to 2033 (US$ Million)

Asia Pacific Smart Life Sciences Manufacturing Market Segmentation

The Asia Pacific smart life sciences manufacturing market is segmented into technology, component, application, and country.

Based on component, the Asia Pacific smart life sciences manufacturing market is segmented into solutions and services. The solution segment held a larger share of the Asia Pacific smart life sciences manufacturing market in 2023.

Based on technology, the Asia Pacific smart life sciences manufacturing market is

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categorized into AR/VR Systems, IoT, AI, Cybersecurity, Big Data, and others. Further, by technology, the cybersecurity segment is sub-segmented into IT cybersecurity and OT cybersecurity. In 2023, the OT cybersecurity sub-segment held a larger market share.

Based on application, the Asia Pacific smart life sciences manufacturing market is segmented into pharma, bio-pharma, and medical devices. The medical devices segment held the largest share of the Asia Pacific smart life sciences manufacturing market in 2023.

Based on country, the Asia Pacific smart life sciences manufacturing market is segmented into Australia, China, India, Japan, South Korea, and the Rest of Asia Pacific. China dominated the Asia Pacific smart life sciences manufacturing market in 2023.

ABB Ltd, Bosch Rexroth AG, Emerson Electric Co, Fortinet Inc, General Electric Co, Honeywell International Inc, International Business Machines Corp, Rockwell Automation Inc, Siemens AG, and Sophos Ltd are some of the leading companies operating in the Asia Pacific smart life sciences manufacturing market.

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