

Global Pharma 4.0 Market Size study, by Technology (Cloud Computing, Artificial Intelligence (AI), Big Data Analytics, Internet of Things (IoT)), By Application (Drug Discovery and Development, Clinical Trials, Manufacturing), By End-User (Pharmaceutical Companies, Biotechnology Companies, CROs and CMOs and Regional Forecasts 2022-2032

<https://marketpublishers.com/r/G421D3457FE2EN.html>

Date: August 2024

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: G421D3457FE2EN

Abstracts

Global Pharma 4.0 Market is valued approximately at USD 14.17 Billion in 2023 and is anticipated to grow with a healthy growth rate of more than 18.1% over the forecast period 2024-2032. The concept of Pharma 4.0 builds on the foundation of the fourth industrial revolution, often referred to as Industry 4.0, which emphasizes the integration of cyber-physical systems, the Internet of Things (IoT), big data, and advanced analytics to create intelligent and autonomous production processes. Pharma 4.0 takes these principles and applies them to the pharmaceutical industry, aiming to enhance drug manufacturing, supply chain management, and overall operational efficiency.

Pharma 4.0 encompasses a wide range of technologies, including big data analytics, virtual reality, cloud computing, IoT, and machine-to-machine communication (M2M). These technologies enable the creation of intelligent networks where machines and systems can communicate, detect faults, initiate repairs, and manage logistics autonomously. This interconnectedness enhances the efficiency and reliability of pharmaceutical manufacturing processes. Several factors drive the growth of the Pharma 4.0 market. The increasing geriatric population and the associated rise in chronic diseases have led to a higher demand for monitoring devices and personalized medicine. Healthcare systems leveraging IoT can enhance patient monitoring, improve medical outcomes, and reduce costs. Additionally, the rapid adoption of AI and IoT in

the healthcare sector is propelling market growth by enabling more efficient operations and better patient care.

Key regions considered for the Global Pharma 4.0 Market study include North America, Europe, Asia-Pacific, Latin America, and Middle East & Africa. North America holds a significant market share, driven by the advanced healthcare infrastructure and the high adoption rate of innovative technologies. Europe follows closely, with countries like Germany and the UK leading in the adoption of Pharma 4.0 solutions. The Asia-Pacific region is expected to witness the fastest growth due to expanding healthcare infrastructure, government initiatives, and a growing prevalence of chronic diseases.

Major market players included in this report are:

Siemens Healthineers
Abbott Laboratories
Philips Healthcare
Johnson & Johnson
Roche Diagnostics
GE Healthcare
Medtronic plc
Becton, Dickinson and Company (BD)
Thermo Fisher Scientific Inc.
Novartis International AG
Pfizer Inc.
GSK (GlaxoSmithKline plc)
Sanofi S.A.
Bayer AG
AstraZeneca plc

The detailed segments and sub-segment of the market are explained below:

By Technology:

Cloud Computing
Artificial Intelligence (AI)
Big Data Analytics
Internet of Things (IoT)

By Application:

Drug Discovery and Development
Clinical Trials

Manufacturing

By End-User:

Pharmaceutical Companies

Biotechnology Companies

CROs and CMOs

By Region:

North America

U.S.

Canada

Europe

Germany

France

UK

Italy

Spain

Rest of Europe

Asia Pacific

China

Japan

India

South Korea

Australia

Rest of Asia Pacific

Latin America

Brazil

Mexico

Rest of Latin America

Middle East and Africa

Saudi Arabia

South Africa

Rest of Latin America

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

Contents

CHAPTER 1. GLOBAL PHARMA 4.0 MARKET EXECUTIVE SUMMARY

- 1.1. Global Pharma 4.0 Market Size & Forecast (2022- 2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
 - 1.3.1. By Technology
 - 1.3.2. By Application
 - 1.3.3. By End-User
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendation & Conclusion

CHAPTER 2. GLOBAL PHARMA 4.0 MARKET DEFINITION AND RESEARCH ASSUMPTIONS

- 2.1. Research Objective
- 2.2. Market Definition
- 2.3. Research Assumptions
 - 2.3.1. Inclusion & Exclusion
 - 2.3.2. Limitations
 - 2.3.3. Supply Side Analysis
 - 2.3.3.1. Availability
 - 2.3.3.2. Infrastructure
 - 2.3.3.3. Regulatory Environment
 - 2.3.3.4. Market Competition
 - 2.3.3.5. Economic Viability (Consumer's Perspective)
 - 2.3.4. Demand Side Analysis
 - 2.3.4.1. Regulatory frameworks
 - 2.3.4.2. Technological Advancements
 - 2.3.4.3. Environmental Considerations
 - 2.3.4.4. Consumer Awareness & Acceptance
- 2.4. Estimation Methodology
- 2.5. Years Considered for the Study
- 2.6. Currency Conversion Rates

CHAPTER 3. GLOBAL PHARMA 4.0 MARKET DYNAMICS

3.1. Market Drivers

- 3.1.1. Increasing Geriatric Population
- 3.1.2. Rising Demand for Personalized Medicine
- 3.1.3. Adoption of AI and IoT in Healthcare

3.2. Market Challenges

- 3.2.1. Lack of Skilled Workforce
- 3.2.2. Regulatory Compliance

3.3. Market Opportunities

- 3.3.1. Growth in Emerging Markets
- 3.3.2. Advancements in Big Data and Analytics
- 3.3.3. Increasing Investments in R&D

CHAPTER 4. GLOBAL PHARMA 4.0 MARKET INDUSTRY ANALYSIS

4.1. Porter's 5 Force Model

- 4.1.1. Bargaining Power of Suppliers
- 4.1.2. Bargaining Power of Buyers
- 4.1.3. Threat of New Entrants
- 4.1.4. Threat of Substitutes
- 4.1.5. Competitive Rivalry
- 4.1.6. Futuristic Approach to Porter's 5 Force Model
- 4.1.7. Porter's 5 Force Impact Analysis

4.2. PESTEL Analysis

- 4.2.1. Political
- 4.2.2. Economical
- 4.2.3. Social
- 4.2.4. Technological
- 4.2.5. Environmental
- 4.2.6. Legal

4.3. Top investment opportunity

4.4. Top winning strategies

4.5. Disruptive Trends

4.6. Industry Expert Perspective

4.7. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL PHARMA 4.0 MARKET SIZE & FORECASTS BY TECHNOLOGY 2022-2032

5.1. Segment Dashboard

5.2. Global Pharma 4.0 Market: Technology Revenue Trend Analysis, 2022 & 2032 (USD Billion)

- 5.2.1. Cloud Computing
- 5.2.2. Artificial Intelligence (AI)
- 5.2.3. Big Data Analytics
- 5.2.4. Internet of Things (IoT)

CHAPTER 6. GLOBAL PHARMA 4.0 MARKET SIZE & FORECASTS BY APPLICATION 2022-2032

6.1. Segment Dashboard

6.2. Global Pharma 4.0 Market: Application Revenue Trend Analysis, 2022 & 2032 (USD Billion)

- 6.2.1. Drug Discovery and Development
- 6.2.2. Clinical Trials
- 6.2.3. Manufacturing

CHAPTER 7. GLOBAL PHARMA 4.0 MARKET SIZE & FORECASTS BY END-USER 2022-2032

7.1. Segment Dashboard

7.2. Global Pharma 4.0 Market: End-User Revenue Trend Analysis, 2022 & 2032 (USD Billion)

- 7.2.1. Pharmaceutical Companies
- 7.2.2. Biotechnology Companies
- 7.2.3. CROs and CMOs

CHAPTER 8. GLOBAL PHARMA 4.0 MARKET SIZE & FORECASTS BY REGION 2022-2032

8.1. North America Pharma 4.0 Market

- 8.1.1. U.S. Pharma 4.0 Market
 - 8.1.1.1. Technology breakdown size & forecasts, 2022-2032
 - 8.1.1.2. Application breakdown size & forecasts, 2022-2032
 - 8.1.1.3. End-User breakdown size & forecasts, 2022-2032
- 8.1.2. Canada Pharma 4.0 Market

8.2. Europe Pharma 4.0 Market

- 8.2.1. U.K. Pharma 4.0 Market
- 8.2.2. Germany Pharma 4.0 Market

- 8.2.3. France Pharma 4.0 Market
- 8.2.4. Spain Pharma 4.0 Market
- 8.2.5. Italy Pharma 4.0 Market
- 8.2.6. Rest of Europe Pharma 4.0 Market
- 8.3. Asia-Pacific Pharma 4.0 Market
 - 8.3.1. China Pharma 4.0 Market
 - 8.3.2. India Pharma 4.0 Market
 - 8.3.3. Japan Pharma 4.0 Market
 - 8.3.4. Australia Pharma 4.0 Market
 - 8.3.5. South Korea Pharma 4.0 Market
 - 8.3.6. Rest of Asia Pacific Pharma 4.0 Market
- 8.4. Latin America Pharma 4.0 Market
 - 8.4.1. Brazil Pharma 4.0 Market
 - 8.4.2. Mexico Pharma 4.0 Market
 - 8.4.3. Rest of Latin America Pharma 4.0 Market
- 8.5. Middle East & Africa Pharma 4.0 Market
 - 8.5.1. Saudi Arabia Pharma 4.0 Market
 - 8.5.2. South Africa Pharma 4.0 Market
 - 8.5.3. Rest of Middle East & Africa Pharma 4.0 Market

CHAPTER 9. COMPETITIVE INTELLIGENCE

- 9.1. Key Company SWOT Analysis
 - 9.1.1. Company
 - 9.1.2. Company
 - 9.1.3. Company
- 9.2. Top Market Strategies
- 9.3. Company Profiles
 - 9.3.1. Siemens Healthineers
 - 9.3.1.1. Key Information
 - 9.3.1.2. Overview
 - 9.3.1.3. Financial (Subject to Data Availability)
 - 9.3.1.4. Product Summary
 - 9.3.1.5. Market Strategies
 - 9.3.2. Abbott Laboratories
 - 9.3.3. Philips Healthcare
 - 9.3.4. Johnson & Johnson
 - 9.3.5. Roche Diagnostics
 - 9.3.6. GE Healthcare

- 9.3.7. Medtronic plc
- 9.3.8. Becton, Dickinson and Company (BD)
- 9.3.9. Thermo Fisher Scientific Inc.
- 9.3.10. Novartis International AG
- 9.3.11. Pfizer Inc.
- 9.3.12. GSK (GlaxoSmithKline plc)
- 9.3.13. Sanofi S.A.
- 9.3.14. Bayer AG
- 9.3.15. AstraZeneca plc

CHAPTER 10. RESEARCH PROCESS

- 10.1. Research Process
 - 10.1.1. Data Mining
 - 10.1.2. Analysis
 - 10.1.3. Market Estimation
 - 10.1.4. Validation
 - 10.1.5. Publishing
- 10.2. Research Attributes

List Of Tables

LIST OF TABLES

TABLE 1. Global Pharma 4.0 market, report scope

TABLE 2. Global Pharma 4.0 market estimates & forecasts by Region 2022-2032 (USD Billion)

TABLE 3. Global Pharma 4.0 market estimates & forecasts by Technology 2022-2032 (USD Billion)

TABLE 4. Global Pharma 4.0 market estimates & forecasts by Application 2022-2032 (USD Billion)

TABLE 5. Global Pharma 4.0 market estimates & forecasts by End-User 2022-2032 (USD Billion)

TABLE 6. Global Pharma 4.0 market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 7. Global Pharma 4.0 market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 8. U.S. Pharma 4.0 market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 9. Canada Pharma 4.0 market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 10. Mexico Pharma 4.0 market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 11. U.K. Pharma 4.0 market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 12. Germany Pharma 4.0 market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 13. France Pharma 4.0 market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 14. Spain Pharma 4.0 market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 15. Italy Pharma 4.0 market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 16. Rest of Europe Pharma 4.0 market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 17. China Pharma 4.0 market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 18. India Pharma 4.0 market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 19. Japan Pharma 4.0 market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 20. Australia Pharma 4.0 market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 21. South Korea Pharma 4.0 market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 22. Rest of Asia Pacific Pharma 4.0 market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 23. Brazil Pharma 4.0 market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 24. Mexico Pharma 4.0 market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 25. Rest of Latin America Pharma 4.0 market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 26. Saudi Arabia Pharma 4.0 market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 27. South Africa Pharma 4.0 market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 28. Rest of Middle East & Africa Pharma 4.0 market estimates & forecasts, 2022-2032 (USD Billion)

.....

This list is not complete, final report does contain more than 100 tables. The list may be updated in the final deliverable.

List Of Figures

LIST OF FIGURES

- FIG 1. Global Pharma 4.0 market, research methodology
- FIG 2. Global Pharma 4.0 market, market estimation techniques
- FIG 3. Global market size estimates & forecast methods.
- FIG 4. Global Pharma 4.0 market, key trends 2023
- FIG 5. Global Pharma 4.0 market, growth prospects 2022-2032
- FIG 6. Global Pharma 4.0 market, porters 5 force model
- FIG 7. Global Pharma 4.0 market, PESTEL analysis
- FIG 8. Global Pharma 4.0 market, value chain analysis
- FIG 9. Global Pharma 4.0 market by segment, 2022 & 2032 (USD Billion)
- FIG 10. Global Pharma 4.0 market by segment, 2022 & 2032 (USD Billion)
- FIG 11. Global Pharma 4.0 market by segment, 2022 & 2032 (USD Billion)
- FIG 12. Global Pharma 4.0 market by segment, 2022 & 2032 (USD Billion)
- FIG 13. Global Pharma 4.0 market by segment, 2022 & 2032 (USD Billion)
- FIG 14. Global Pharma 4.0 market, regional snapshot 2022 & 2032
- FIG 15. North America Pharma 4.0 market 2022 & 2032 (USD Billion)
- FIG 16. Europe Pharma 4.0 market 2022 & 2032 (USD Billion)
- FIG 17. Asia pacific Pharma 4.0 market 2022 & 2032 (USD Billion)
- FIG 18. Latin America Pharma 4.0 market 2022 & 2032 (USD Billion)
- FIG 19. Middle East & Africa Pharma 4.0 market 2022 & 2032 (USD Billion)

.....

This list is not complete, final report does contain more than 50 figures. The list may be updated in the final deliverable.

I would like to order

Product name: Global Pharma 4.0 Market Size study, by Technology (Cloud Computing, Artificial Intelligence (AI), Big Data Analytics, Internet of Things (IoT)), By Application (Drug Discovery and Development, Clinical Trials, Manufacturing), By End-User (Pharmaceutical Companies, Biotechnology Companies, CROs and CMOs and Regional Forecasts 2022-2032

Product link: <https://marketpublishers.com/r/G421D3457FE2EN.html>

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G421D3457FE2EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below
and fax the completed form to +44 20 7900 3970