

Flight Simulator Market Size, Share & Trends Analysis Report By Product (Full Flight Simulator (FFS), Fixed Flight Training Devices (FTD)), By Application (Military & Defense, Civil), By Region, And Segment Forecasts, 2020 - 2027

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Abstracts

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The global flight simulator market size is expected to reach USD 6.4 billion by 2027, expanding at a revenue-based CAGR of 4.2%, according to a study conducted by Grand View Research, Inc. Increasing adoption of Full Flight Simulator (FFS) owing to high fidelity and reliability is expected to provide adequate growth prospects over the coming years. Customers also opt for fixed Flight Training Devices (FTDs) on account of their low operational costs, modular approach, real-time aerodynamic aviation model, and remote configuration and management. The industry is expected to witness moderate growth over the forecast period owing to the aforementioned factors.

The market is poised for growth owing to advances in aircraft simulation technology which is expected to change the pilot training. The need to effectively replicate real flying training with the usage of motion and visual systems has resulted in the introduction of sophisticated simulators in the flight simulators market. Increase in government spending and growing security concerns particularly in the military sector is anticipated to escalate product demand significantly. The rising concerns over pilot training cost along with fluctuating fuel prices may further drive the market over the next eight years.

The design of aircraft simulators is based on original cockpit of respective aircraft models. Companies like Lufthansa Aviation Training offer simulators with cockpit

designs from aircraft manufacturers like Airbus S.A.S, Boeing, Bombardier, and Embraer. The company provides simulators with navigation trainer, which imparts practical instrument training by replicating different weather and environmental conditions. Technological advancements have significantly resulted in motion systems being converted from hydraulic to electric for improved fidelity and smoothness. Additionally, advancements such as the onset of advanced visual systems that offer more than 180-degree view in satellite quality of all important objects at the relevant airport is also anticipated to provide growth prospects in this industry.

Further key findings from the report suggest:

The FFS product segment accounted for over 90% of the overall revenue in 2019 and is expected to witness a revenue-based CAGR of 4.6% during the forecast period. This growth is owing to features that provide motion, sound, visuals, and all other aircraft operations that create a realistic aviation training environment

The demand in civil application segment is primarily due to the rising air traffic coupled with the growing emphasis on the passenger as well as pilot safety. Governments in several countries have enforced strict regulations regarding the use and significance of simulation training

Europe accounted for more than 30% of the overall market share in 2019 and is expected to exhibit a modest growth over the next eight years on account of the elevating enforcement of regulations pertaining to pilot training and passenger safety

In Asia Pacific, the flight simulator market is estimated to exhibit a substantial growth over the forecast period in light of the growing aviation industry, resulting in the increasing demand for aircraft simulators. Middle East and Africa is also projected to showcase a substantial demand of over 5%, which is primarily be attributed to the presence of carriers including Emirates, Etihad Airways, and Qatar that are investing heavily in this industry

Prominent industry players include CAE, Boeing, L-3 Link Simulation and Training, Lockheed Martin, Rockwell Collins, Thales and Saab. Industry participants emphasize on joint ventures, mergers, and acquisitions in order to acquire greater financial, technical, marketing, manufacturing, and distribution expertise.

Contents

CHAPTER 1. METHODOLOGY AND SCOPE

- 1.1. Research Methodology
- 1.2. Research Scope and Assumptions
- 1.3. List of Data Sources

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. Flight Simulator - Industry Snapshot & Key Buying Criteria, 2016 to 2025

CHAPTER 3. FLIGHT SIMULATOR INDUSTRY OUTLOOK

- 3.1. Market Segmentation
- 3.2. Market Size and Growth Prospects, 2016 & 2027
- 3.3. Value Chain Analysis
- 3.4. Market Dynamics
 - 3.4.1. Market driver analysis
 - 3.4.2. Market restraint/challenge analysis
 - 3.4.3. Market opportunity analysis
- 3.5. Key Opportunities Prioritized
- 3.6. Industry Analysis - Porter's
 - 3.6.1. Supplier Power
 - 3.6.2. Buyer Power
 - 3.6.3. Substitution Threat
 - 3.6.4. Threat from new entrant
- 3.7. PESTEL Analysis
 - 3.7.1. Political Landscape
 - 3.7.2. Environmental Landscape
 - 3.7.3. Social Landscape
 - 3.7.4. Technology Landscape
- 3.8. Market Lineage outlook
 - 3.8.1. Parent market outlook

CHAPTER 4. FLIGHT SIMULATOR MARKET: PRODUCT OUTLOOK

- 4.1. Flight Simulator Market Share by Product, 2016 & 2027 (USD Million) (Million Units)
- 4.2. Full Flight Simulator (FFS)

- 4.2.1. Market estimates and forecast, 2016 & 2027 (USD Million) (Million Units)
- 4.2.2. Market estimates and forecast by region, 2016 & 2027 (USD Million) (Million Units)
- 4.3. Fixed Flight Training Devices (FTD)
 - 4.3.1. Market estimates and forecast, 2016 & 2027 (USD Million) (Million Units)
 - 4.3.2. Market estimates and forecast by region, 2016 & 2027 (USD Million) (Million Units)

CHAPTER 5. FLIGHT SIMULATOR MARKET: APPLICATION OUTLOOK

- 5.1. Flight Simulators Market Share by Product, 2016 & 2027 (USD Million) (Million Units)
- 5.2. Military & Defense
 - 5.2.1. Market estimates and forecast, 2016 & 2027 (USD Million) (Million Units)
 - 5.2.2. Market estimates and forecast by region, 2016 & 2027 (USD Million) (Million Units)
- 5.3. Civil
 - 5.3.1. Market estimates and forecast, 2016 & 2027 (USD Million) (Million Units)
 - 5.3.2. Market estimates and forecast by region, 2016 & 2027 (USD Million) (Million Units)

CHAPTER 6. FLIGHT SIMULATOR MARKET: REGIONAL OUTLOOK

- 6.1. Flight Simulator Market Share by Region, 2016 & 2027 (USD Million) (Million Units)
- 6.2. North America
 - 6.2.1. Market estimates and forecast, 2016 - 2027 (USD Million) (Million Units)
 - 6.2.2. Market estimates and forecast by product, 2016 - 2027 (USD Million) (Million Units)
 - 6.2.3. Market estimates and forecast by application, 2016 - 2027 (USD Million) (Million Units)
 - 6.2.4. U.S.
 - 6.2.4.1. Market estimates and forecast, 2016 - 2027 (USD Million) (Million Units)
 - 6.2.4.2. Market estimates and forecast by product, 2016 - 2027 (USD Million) (Million Units)
 - 6.2.4.3. Market estimates and forecast by application, 2016 - 2027 (USD Million) (Million Units)
 - 6.2.5. Canada
 - 6.2.5.1. Market estimates and forecast, 2016 - 2027 (USD Million) (Million Units)
 - 6.2.5.2. Market estimates and forecast by product, 2016 - 2027 (USD Million) (Million Units)

Units)

6.2.5.3. Market estimates and forecast by application, 2016 - 2027 (USD Million)

(Million Units)

6.2.6. Mexico

6.2.6.1. Market estimates and forecast, 2016 - 2027 (USD Million) (Million Units)

6.2.6.2. Market estimates and forecast by product, 2016 - 2027 (USD Million) (Million Units)

6.2.6.3. Market estimates and forecast by application, 2016 - 2027 (USD Million) (Million Units)

6.3. Europe

6.3.1. Market estimates and forecast, 2016 - 2027 (USD Million) (Million Units)

6.3.2. Market estimates and forecast by product, 2016 - 2027 (USD Million) (Million Units)

6.3.3. Market estimates and forecast by application, 2016 - 2027 (USD Million) (Million Units)

6.3.4. U.K.

6.3.4.1. Market estimates and forecast, 2016 - 2027 (USD Million) (Million Units)

6.3.4.2. Market estimates and forecast by product, 2016 - 2027 (USD Million) (Million Units)

6.3.4.3. Market estimates and forecast by application, 2016 - 2027 (USD Million) (Million Units)

6.3.5. Germany

6.3.5.1. Market estimates and forecast, 2016 - 2027 (USD Million) (Million Units)

6.3.5.2. Market estimates and forecast by product, 2016 - 2027 (USD Million) (Million Units)

6.3.5.3. Market estimates and forecast by application, 2016 - 2027 (USD Million) (Million Units)

6.3.6. France

6.3.6.1. Market estimates and forecast, 2016 - 2027 (USD Million) (Million Units)

6.3.6.2. Market estimates and forecast by product, 2016 - 2027 (USD Million) (Million Units)

6.3.6.3. Market estimates and forecast by application, 2016 - 2027 (USD Million) (Million Units)

6.4. Asia Pacific

6.4.1. Market estimates and forecast, 2016 - 2027 (USD Million) (Million Units)

6.4.2. Market estimates and forecast by product, 2016 - 2027 (USD Million) (Million Units)

6.4.3. Market estimates and forecast by application, 2016 - 2027 (USD Million) (Million Units)

6.4.4. China

6.4.4.1. Market estimates and forecast, 2016 - 2027 (USD Million) (Million Units)

6.4.4.2. Market estimates and forecast by product, 2016 - 2027 (USD Million) (Million Units)

6.4.4.3. Market estimates and forecast by application, 2016 - 2027 (USD Million) (Million Units)

6.4.5. India

6.4.5.1. Market estimates and forecast, 2016 - 2027 (USD Million) (Million Units)

6.4.5.2. Market estimates and forecast by product, 2016 - 2027 (USD Million) (Million Units)

6.4.5.3. Market estimates and forecast by application, 2016 - 2027 (USD Million) (Million Units)

6.4.6. Japan

6.4.6.1. Market estimates and forecast, 2016 - 2027 (USD Million) (Million Units)

6.4.6.2. Market estimates and forecast by product, 2016 - 2027 (USD Million) (Million Units)

6.4.6.3. Market estimates and forecast by application, 2016 - 2027 (USD Million) (Million Units)

6.5. South America

6.5.1. Market estimates and forecast, 2016 - 2027 (USD Million) (Million Units)

6.5.2. Market estimates and forecast by product, 2016 - 2027 (USD Million) (Million Units)

6.5.3. Market estimates and forecast by application, 2016 - 2027 (USD Million) (Million Units)

6.5.4. Brazil

6.5.4.1. Market estimates and forecast, 2016 - 2027 (USD Million) (Million Units)

6.5.4.2. Market estimates and forecast by product, 2016 - 2027 (USD Million) (Million Units)

6.5.4.3. Market estimates and forecast by application, 2016 - 2027 (USD Million) (Million Units)

6.6. Middle East & Africa

6.6.1. Market estimates and forecast, 2016 - 2027 (USD Million) (Million Units)

6.6.2. Market estimates and forecast by product, 2016 - 2027 (USD Million) (Million Units)

6.6.3. Market estimates and forecast by application, 2016 - 2027 (USD Million) (Million Units)

CHAPTER 7. COMPETITIVE ANALYSIS

7.1. Company/Competition Categorization (Key Innovators, Market Leaders, Emerging Players)

7.2. Vendor Landscape

7.2.1. Key company market share analysis / key company rankings, 2018

CHAPTER 8. COMPETITIVE LANDSCAPE

8.1. Alenia Aeronautica

8.1.1. Company overview

8.1.2. Financial performance

8.1.3. Product benchmarking

8.1.4. Strategic initiatives

8.2. Boeing

8.2.1. Company overview

8.2.2. Financial performance

8.2.3. Product benchmarking

8.2.4. Strategic initiatives

8.3. CAE

8.3.1. Company overview

8.3.2. Financial performance

8.3.3. Product benchmarking

8.3.4. Strategic initiatives

8.4. Cassidian

8.4.1. Company overview

8.4.2. Financial performance

8.4.3. Product benchmarking

8.4.4. Strategic initiatives

8.5. DiSTI

8.5.1. Company overview

8.5.2. Financial performance

8.5.3. Product benchmarking

8.5.4. Strategic initiatives

8.6. Fidelity Technologies Corporation

8.6.1. Company overview

8.6.2. Financial performance

8.6.3. Product benchmarking

8.6.4. Strategic initiatives

8.7. HAVELSAN

8.7.1. Company overview

- 8.7.2. Financial performance
- 8.7.3. Product benchmarking
- 8.7.4. Strategic initiatives
- 8.8. Kratos Defense and Security Solutions
 - 8.8.1. Company overview
 - 8.8.2. Financial performance
 - 8.8.3. Product benchmarking
 - 8.8.4. Strategic initiatives
- 8.9. L-3 Link Simulation and Training
 - 8.9.1. Company overview
 - 8.9.2. Financial performance
 - 8.9.3. Product benchmarking
 - 8.9.4. Strategic initiatives
- 8.10. Lockheed Martin Corporation
 - 8.10.1. Company overview
 - 8.10.2. Financial performance
 - 8.10.3. Product benchmarking
 - 8.10.4. Strategic initiatives
- 8.11. Meggitt Training Systems
 - 8.11.1. Company overview
 - 8.11.2. Financial performance
 - 8.11.3. Product benchmarking
 - 8.11.4. Strategic initiatives
- 8.12. Rockwell Collins
 - 8.12.1. Company overview
 - 8.12.2. Financial performance
 - 8.12.3. Product benchmarking
 - 8.12.4. Strategic initiatives
- 8.13. SaaS
 - 8.13.1. Company overview
 - 8.13.2. Financial performance
 - 8.13.3. Product benchmarking
 - 8.13.4. Strategic initiatives
- 8.14. Sikorsky Aircraft Corporation
 - 8.14.1. Company overview
 - 8.14.2. Financial performance
 - 8.14.3. Product benchmarking
 - 8.14.4. Strategic initiatives
- 8.15. Teledyne Brown Engineering, Inc

- 8.15.1. Company overview
- 8.15.2. Financial performance
- 8.15.3. Product benchmarking
- 8.15.4. Strategic initiatives
- 8.16. Thales
 - 8.16.1. Company overview
 - 8.16.2. Financial performance
 - 8.16.3. Product benchmarking
 - 8.16.4. Strategic initiatives
- 8.17. VirTra Systems
 - 8.17.1. Company overview
 - 8.17.2. Financial performance
 - 8.17.3. Product benchmarking
 - 8.17.4. Strategic initiatives
- 8.18. ZedaSoft, Inc.
 - 8.18.1. Company overview
 - 8.18.2. Financial performance
 - 8.18.3. Product benchmarking
 - 8.18.4. Strategic initiatives

List Of Tables

LIST OF TABLES

Table 1 List of Abbreviation

Table 2 Flight simulator market - Industry snapshot & key buying criteria, 2016 - 2027

Table 3 Flight simulator market, 2016 - 2027 (USD Million)

Table 4 Flight simulator market, by region, 2016 - 2027 (USD Million)

Table 5 Flight simulator market, by product, 2016 - 2027 (USD Million)

Table 6 Flight simulator market, by application, 2016 - 2027 (USD Million)

Table 7 Flight simulator market- Regulatory framework

Table 8 Full flight simulator, 2016 - 2027 (USD Million)

Table 10 Fixed flight training devices, 2016 - 2027 (USD Million)

Table 11 Full flight simulator, 2016 - 2027 (Million Units)

Table 12 Fixed flight training devices, 2016 - 2027 (Million Units)

Table 13 Military & defense, 2016 - 2027 (USD Million)

Table 14 Civil, 2016 - 2027 (USD Million)

Table 15 Military & defense, 2016 - 2027 (Million Units)

Table 16 Civil, 2016 - 2027 (Million Units)

Table 17 North America Flight simulator market, 2015 - 2025 (USD Million)

Table 18 North America Flight simulator market, by product, 2016 - 2027 (USD Million)

Table 19 North America Flight simulator market, by product, 2016 - 2027 (Million Units)

Table 20 North America Flight simulator market, by application, 2016 - 2027 (USD Million)

Table 21 North America Flight simulator market, by application, 2016 - 2027 (Million Units)

Table 22 U.S. Flight simulator market, 2016 - 2027 (USD Million)

Table 23 U.S. Flight simulator market, by product, 2016 - 2027 (USD Million)

Table 24 U.S. Flight simulator market, by product, 2016 - 2027 (Million Units)

Table 25 U.S. Flight simulator market, by application, 2016 - 2027 (USD Million)

Table 26 U.S. Flight simulator market, by application, 2016 - 2027 (Million Units)

Table 27 Mexico Flight simulator market, 2016 - 2027 (USD Million)

Table 28 Mexico Flight simulator market, by product, 2016 - 2027 (USD Million)

Table 29 Mexico Flight simulator market, by product, 2016 - 2027 (Million Units)

Table 30 Mexico Flight simulator market, by application, 2016 - 2027 (USD Million)

Table 31 Mexico Flight simulator market, by application, 2016 - 2027 (Million Units)

Table 32 Canada Flight simulator market, 2016 - 2027 (USD Million)

Table 33 Canada Flight simulator market, by product, 2016 - 2027 (USD Million)

Table 34 Canada Flight simulator market, by product, 2016 - 2027 (Million Units)

- Table 35 Canada Flight simulator market, by application, 2016 - 2027 (USD Million)
- Table 36 Canada Flight simulator market, by application, 2016 - 2027 (Million Units)
- Table 37 Europe Flight simulator market, 2016 - 2027 (USD Million)
- Table 38 Europe Flight simulator market, by product, 2016 - 2027 (USD Million)
- Table 39 Europe Flight simulator market, by product, 2016 - 2027 (Million Units)
- Table 40 Europe Flight simulator market, by application, 2016 - 2027 (USD Million)
- Table 41 Europe Flight simulator market, by application, 2016 - 2027 (Million Units)
- Table 42 U.K. Flight simulator market, 2016 - 2027 (USD Million)
- Table 43 U.K. Flight simulator market, by product, 2016 - 2027 (USD Million)
- Table 44 U.K. Flight simulator market, by product, 2016 - 2027 (Million Units)
- Table 45 U.K. Flight simulator market, by application, 2016 - 2027 (USD Million)
- Table 46 U.K. Flight simulator market, by application, 2016 - 2027 (Million Units)
- Table 47 Germany Flight simulator market, 2016 - 2027 (USD Million)
- Table 48 Germany Flight simulator market, by product, 2016 - 2027 (USD Million)
- Table 49 Germany Flight simulator market, by product, 2016 - 2027 (Million Units)
- Table 50 Germany Flight simulator market, by application, 2016 - 2027 (USD Million)
- Table 51 Germany Flight simulator market, by application, 2016 - 2027 (Million Units)
- Table 52 France Flight simulator market, 2016 - 2027 (USD Million)
- Table 53 France Flight simulator market, by product, 2016 - 2027 (USD Million)
- Table 54 France Flight simulator market, by product, 2016 - 2027 (Million Units)
- Table 55 France Flight simulator market, by application, 2016 - 2027 (USD Million)
- Table 56 France Flight simulator market, by application, 2016 - 2027 (Million Units)
- Table 57 Asia Pacific Flight simulator market, 2016 - 2027 (USD Million)
- Table 58 Asia Pacific Flight simulator market, by product, 2016 - 2027 (USD Million)
- Table 59 Asia Pacific Flight simulator market, by product, 2016 - 2027 (Million Units)
- Table 60 Asia Pacific Flight simulator market, by application, 2016 - 2027 (USD Million)
- Table 61 Asia Pacific Flight simulator market, by application, 2016 - 2027 (Million Units)
- Table 62 China Flight simulator market, 2016 - 2027 (USD Million)
- Table 63 China Flight simulator market, by product, 2016 - 2027 (USD Million)
- Table 64 China Flight simulator market, by product, 2016 - 2027 (Million Units)
- Table 65 China Flight simulator market, by application, 2016 - 2027 (USD Million)
- Table 66 China Flight simulator market, by application, 2016 - 2027 (Million Units)
- Table 67 India Flight simulator market, 2016 - 2027 (USD Million)
- Table 68 India Flight simulator market, by product, 2016 - 2027 (USD Million)
- Table 69 India Flight simulator market, by product, 2016 - 2027 (Million Units)
- Table 70 India Flight simulator market, by application, 2016 - 2027 (USD Million)
- Table 71 India Flight simulator market, by application, 2016 - 2027 (Million Units)
- Table 72 Japan Flight simulator market, 2016 - 2027 (USD Million)
- Table 73 Japan Flight simulator market, by product, 2016 - 2027 (USD Million)

- Table 74 Japan Flight simulator market, by product, 2016 - 2027 (Million Units)
- Table 75 Japan Flight simulator market, by application, 2016 - 2027 (USD Million)
- Table 76 Japan Flight simulator market, by application, 2016 - 2027 (Million Units)
- Table 77 South America Flight simulator market, 2016 - 2027 (USD Million)
- Table 78 South America Flight simulator market, by product, 2016 - 2027 (USD Million)
- Table 79 South America Flight simulator market, by product, 2016 - 2027 (Million Units)
- Table 80 South America Flight simulator market, by application, 2016 - 2027 (USD Million)
- Table 81 South America Flight simulator market, by application, 2016 - 2027 (Million Units)
- Table 82 Brazil Flight simulator market, 2016 - 2027 (USD Million)
- Table 83 Brazil Flight simulator market, by product, 2016 - 2027 (USD Million)
- Table 84 Brazil Flight simulator market, by product, 2016 - 2027 (Million Units)
- Table 85 Brazil Flight simulator market, by application, 2016 - 2027 (USD Million)
- Table 86 Brazil Flight simulator market, by application, 2016 - 2027 (Million Units)
- Table 87 Middle East & Africa Flight simulator market, 2016 - 2027 (USD Million)
- Table 88 Middle East & Africa Flight simulator market, by product, 2016 - 2027 (USD Million)
- Table 89 Middle East & Africa Flight simulator market, by product, 2016 - 2027 (Million Units)
- Table 90 Middle East & Africa Flight simulator market, by application, 2016 - 2027 (USD Million)
- Table 91 Middle East & Africa Flight simulator market, by product, 2016 - 2027 (Million Units)

List Of Figures

LIST OF FIGURES

- Fig. 1 Flight simulator market, by 2019 (USD Million)
- Fig. 2 Flight simulator market segmentation
- Fig. 3 Value chain analysis
- Fig. 4 Flight simulator market dynamics
- Fig. 5 Flight simulator market driver impact
- Fig. 6 Flight simulator market challenge impact
- Fig. 7 Flight simulator market penetration & growth prospects mapping
- Fig. 8 Flight simulator market - Porters five forces
- Fig. 9 Flight simulator market - PESTEL Analysis
- Fig. 10 Flight simulator market, by region, 2019 & 2027
- Fig. 11 Flight simulator market, by product, 2019 & 2027 (USD Million)
- Fig. 12 Flight simulator market, by application, 2019 & 2027 (USD Million)
- Fig. 13 Flight simulator market, by region, 2019 & 2027

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