Military Airborne Simulation and Training Market Research Report – Forecast to 2023

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Description:

Global Military Airborne Simulation And Training Market Research Report
Information By Training Type (Live Training, Virtual Training, Constructive Training), Aircraft Type (Fixed Wing & Rotary Wing), & Region – Global Forecast to 2023

Market Scenario

Training and simulation systems have been an integral part of aircraft operations. Military airborne simulation and training are developed to create realistic simulation capabilities and training systems to boost the readiness of airborne intelligence, surveillance, and reconnaissance units. These training systems can enhance the readiness of the pilots, leading to improved situational awareness. Simulation and training system is a functional training system that combines all parts of human movement and re-creates aircraft flight environment in which the pilot training system is designed. However, there are some shortcomings in the military airborne simulation and training market, such as complexity of simulator systems, concerns with simulation training, and difficulty for OEMs to keep pace with the growing simulation industry.

The leverage of simulation environment has reduced the use of aircraft time considerably. Training is integrated with computer-aided engineering (CAE) and virtual cockpit to drive simulation and operate on aerodynamic performance parameters. Real-time flight environment parameters, such as engine sounds, hydraulics sounds, and equipment control configuration, are replicated in aircraft simulation. Aircraft manufacturers have begun to make simulation decks that compile realistic and extremely accurate aircraft characteristics and control handling qualities. Pilots can, then, train virtually in an exact environment during which they can expect to operate in reality. The performance of simulation and training environment requires referring to objects and details in the real world. The training consists largely of maneuvering the aircraft in close proximity to external objects and performing advanced maneuvers.

The aircraft crew simulates exercise related to nominal missions, emergency situations, and communication protocols. These sessions develop familiarity with the cockpit setup, displays, flight cards, emergency procedures, and the overall dynamics in the cockpit on the day of the flight. The training conjointly benefits the aircraft cockpit procedures and evaluates their readiness and efficiency during these simulation and training exercises. Real-time data related to radar and video information are generated from aircraft simulation models. This knowledge is used to drive the cockpit displays. Audio communication is an additional part of training sessions. This simulation capability is used to train aircraft crew for nominal missions and emergency simulation. Such training sessions are opportunities to refine control room display pages and exercise emergency procedures.

The factors responsible for the growth of the military airborne simulation and training market are the adoption of virtual training and growth in the military expenses of the developed countries. Another key driver expected to contribute towards the growth of the military airborne simulation and training market is the comprehensive need to streamline training expenditures. The evolution of modern electronic development results in many aircraft manufacturers upgrading flight decks with new avionics.

The military airborne simulation and training market is segmented based on training types and...
aircraft types. On the basis of training types, live training is widely used and comprises the largest market share as it provides a realistic simulation. On the basis of aircraft types, the fixed wing is expected to grow at the highest CAGR during the forecast period due to easy interoperability between components.

Global Military Airborne Simulation and Training Market, By Segmentation

The market is segmented based on region into North America, Asia Pacific, Europe, the Middle East & Africa, and South America. North America is expected to dominate the market in the future due to increasing demand for simulation for training, tactic analysis, and mission preparation. Asia Pacific is second to the North American market in military airborne simulation and training market due to increasing defense budgets of emerging economies, such as China, India, and South Korea. In addition to that, the rising R&D expenditure for defense simulation and training is estimated to bolster the market growth. Thus, the global military airborne simulation and training market is estimated to witness an approximately 5% CAGR during the period of 2017-2023.

Key Players

The key players in the global military airborne simulation and training market are CAE Inc. (Canada), L3 Link Simulation and Training (U.S.), Lockheed Martin (U.S.), Airbus (France), FlightSafety International Inc. (U.S.), Thales Group (France), FRASCA International Inc. (U.S.), SIMCOM Aviation Training (U.S.), ECA GROUP (France), and AXIS Flight Training Systems GmbH (Switzerland).

The report for Global Military Airborne Simulation and Training Market of Market Research Future comprises extensive primary research along with the detailed analysis of qualitative as well as quantitative aspects by various industry experts, key opinion leaders to gain the deeper insight of the market and industry performance. The report gives the clear picture of current market scenario which includes historical and projected market size in terms of value and volume, technological advancement, macroeconomic and governing factors in the market. The report provides details information and strategies of the top key players in the industry. The report also gives a broad study of the different market segments and regions.

Contents:

Table of Contents

1 Executive Summary
2 Scope of the Report
   2.1 Market Definition
   2.2 Scope of the Study
      2.2.1 Definition
      2.2.2 Research Objective
2.2.3 Assumptions
2.2.4 Limitations
2.3 Research Process
2.3.1 Primary Research
2.3.2 Secondary Research
2.4 Market Size Estimation
2.5 Forecast Model

3 Market Landscape
3.1 Porter’s Five Forces Analysis
3.1.1 Threat of New Entrants
3.1.2 Bargaining Power of Buyers
3.1.3 Threat of Substitutes
3.1.4 Segment Rivalry
3.1.5 Bargaining Power of Buyers
3.2 Value Chain/Supply Chain Analysis

4 Market Dynamics
4.1 Introduction
4.2 Market Drivers
4.3 Market Restraints
4.4 Market Opportunities
4.5 Market Trends

5 Global Military Airborne Simulation and Training Market, By Training Type
5.1 Introduction
5.2 Live Training
5.2.1 Market Estimates & Forecast, 2018-2024
5.2.2 Market Estimates & Forecast by Region, 2018-2024
5.3 Virtual Training
5.3.1 Market Estimates & Forecast, 2018-2024
5.3.2 Market Estimates & Forecast by Region, 2018-2024
5.4 Constructive Training
5.4.1 Market Estimates & Forecast, 2018-2024
5.4.2 Market Estimates & Forecast by Region, 2018-2024

6 Global Military Airborne Simulation and Training Market, By Aircraft Types
6.1 Introduction
6.2 Fixed Wing
6.2.1 Market Estimates & Forecast, 2018-2024
6.2.2 Market Estimates & Forecast by Region, 2018-2024
6.3 Rotary Wing
6.3.1 Market Estimates & Forecast, 2018-2024
6.3.2 Market Estimates & Forecast by Region, 2018-2024

7 Global Military Airborne Simulation and Training Market, By Region
7.1 Introduction
7.2 North America
7.2.1 Market Estimates & Forecast, 2018-2024
7.2.2 Market Estimates & Forecast by Training Type, 2018-2024
7.2.3 Market Estimates & Forecast by Aircraft Types, 2018-2024
7.2.4 U.S.
8.4.7.1 Market Estimates & Forecast, 2018-2024
8.4.7.2 Market Estimates & Forecast by Training Type, 2018-2024
8.4.7.3 Market Estimates & Forecast by Aircraft Types, 2018-2024
8.5 Middle East & Africa
8.5.1 Market Estimates & Forecast, 2018-2024
8.5.2 Market Estimates & Forecast by Training Type, 2018-2024
8.5.3 Market Estimates & Forecast by Aircraft Types, 2018-2024
8.6 South America
8.6.1 Market Estimates & Forecast, 2018-2024
8.6.2 Market Estimates & Forecast by Training Type, 2018-2024
8.6.3 Market Estimates & Forecast by Aircraft Types, 2018-2024
9 Competitive Landscape
10 Company Profile
10.1 CAE Inc.
10.1.1 Company Overview
10.1.2 Products/Product Offering
10.1.3 Financial Overview
10.1.4 Key Developments
10.1.5 Strategy
10.1.6 SWOT Analysis
10.2 L3 Link Simulation and Training
10.2.1 Company Overview
10.2.2 Products/Product Offering
10.2.3 Financial Overview
10.2.4 Key Developments
10.2.5 Strategy
10.2.6 SWOT Analysis
10.3 Lockheed Martin
10.3.1 Company Overview
10.3.2 Products/Product Offering
10.3.3 Financial Overview
10.3.4 Key Developments
10.3.5 Strategy
10.3.6 SWOT Analysis
10.4 Airbus
10.4.1 Company Overview
10.4.2 Products/Product Offering
10.4.3 Financial Overview
10.4.4 Key Developments
10.4.5 Strategy
10.4.6 SWOT Analysis
10.5 FlightSafety International Inc.
10.5.1 Company Overview
10.5.2 Products/Product Offering
10.5.3 Financial Overview
10.5.4 Key Developments
10.5.5 Strategy
10.5.6 SWOT Analysis
10.6 Thales Group
10.6.1 Company Overview
10.6.2 Products/Product Offering
10.6.3 Financial Overview
10.6.4 Key Developments
10.6.5 Strategy
10.6.6 SWOT Analysis
10.7 FRASCA International Inc.
10.7.1 Company Overview
10.7.2 Products/Product Offering
10.7.3 Financial Overview
10.7.4 Key Developments
10.7.5 Strategy
10.7.6 SWOT Analysis
10.8 SIMCOM Aviation Training
10.8.1 Company Overview
10.8.2 Products/Product Offering
10.8.3 Financial Overview
10.8.4 Key Developments
10.8.5 Strategy
10.8.6 SWOT Analysis
10.9 ECA Group
10.9.1 Company Overview
10.9.2 Products/Product Offering
10.9.3 Financial Overview
10.9.4 Key Developments
10.9.5 Strategy
10.9.6 SWOT Analysis
10.10 Axis Flight Training Systems GmbH
10.10.1 Company Overview
10.10.2 Products/Product Offering
10.10.3 Financial Overview
10.10.4 Key Developments
10.10.5 Strategy
10.10.6 SWOT Analysis

List of Tables
Table 1 Global Military Airborne Simulation and Training Market: By Region, 2018-2024
Table 2 North America Global Military Airborne Simulation and Training Market: By Country, 2018-2024
Table 3 Europe Global Military Airborne Simulation and Training Market: By Country, 2018-2024
Table 4 Asia Pacific Global Military Airborne Simulation and Training Market: By Country, 2018-2024
Table 5 Middle East & Africa Global Military Airborne Simulation and Training Market: By Country, 2018-2024
Table 6 South America Global Military Airborne Simulation and Training Market: By Country, 2018-2024
Table 7 Global Military Airborne Simulation and Training Market, By Training Type, By Regions, 2018-2024
Table 8 North America Global Military Airborne Simulation and Training Market, By Training Type, By Country, 2018-2024
Table 9 Europe Global Military Airborne Simulation and Training Market, By Training Type, By Country, 2018-2024
Table 10 Asia Pacific Global Military Airborne Simulation and Training Market by Training Type, By Country, 2018-2024
Table 11 Middle East & Africa Global Military Airborne Simulation and Training Market by Training Type, By Country, 2018-2024
Table 12 South America Global Military Airborne Simulation and Training Market by Training Type, By Country, 2018-2024
Table 13 Global Military Airborne Simulation and Training Market: By Region, 2018-2024
Table 14 Global Military Airborne Simulation and Training Market: By Training Type, 2018-2024
Table 15 Global Military Airborne Simulation and Training Market: By Aircraft Types, 2018-2024
Table 16 North America Global Military Airborne Simulation and Training Market, By Country
Table 17 North America Global Military Airborne Simulation and Training Market, By Training Type
Table 18 Europe: Global Military Airborne Simulation and Training Market, By Country
Table 19 Europe: Global Military Airborne Simulation and Training Market, By Training Type
Table 20 Europe: Global Military Airborne Simulation and Training Market, By Aircraft Types
Table 21 Asia Pacific: Global Military Airborne Simulation and Training Market, By Country
Table 22 Asia Pacific: Global Military Airborne Simulation and Training Market, By Training Type
Table 23 Asia Pacific: Global Military Airborne Simulation and Training Market, By Aircraft Types
Table 24 Middle East & Africa: Global Military Airborne Simulation and Training Market, By Region
Table 25 Middle East & Africa: Global Military Airborne Simulation and Training Market, By Training Type
Table 26 Middle East & Africa: Global Military Airborne Simulation and Training Market, By Aircraft Types
Table 27 South America: Global Military Airborne Simulation and Training Market, By Region
Table 28 South America: Global Military Airborne Simulation and Training Market, By Training Type
Table 29 South America: Global Military Airborne Simulation and Training Market, By Aircraft Types

List of Figures
FIGURE 1 Research Process of MRFR
FIGURE 2 Top down & Bottom up Approach
FIGURE 3 Market Dynamics
FIGURE 4 Impact analysis: market drivers
FIGURE 5 Impact analysis: market restraints
FIGURE 6 Porter’s five forces analysis
FIGURE 7 Value chain analysis
FIGURE 8 Global Military Airborne Simulation and Training Market Share, By Training Type, 2018 (%)
FIGURE 9 Global Military Airborne Simulation and Training Market, By Training Type, 2018-2024 (USD MILLION)
FIGURE 10 Global Military Airborne Simulation and Training Market Share, By Aircraft Types, 2018 (%)
FIGURE 11 Global Military Airborne Simulation and Training Market, By Aircraft Types, 2018-2024 (USD MILLION)
FIGURE 12 Global Military Airborne Simulation and Training Market Share (%), BY REGION, 2018
FIGURE 13 Global Military Airborne Simulation and Training Market, BY Region, 2018-2024 (USD MILLION)
FIGURE 14 North America Global Military Airborne Simulation and Training Market Share (%), 2018
FIGURE 15 North America Global Military Airborne Simulation and Training Market BY Country, 2018-2024 (USD MILLION)
FIGURE 16 Europe Global Military Airborne Simulation and Training Market Share (%), 2018
FIGURE 17 Europe Global Military Airborne Simulation and Training Market BY Country, 2018-2024 (USD MILLION)
FIGURE 18 Asia Pacific Global Military Airborne Simulation and Training Market Share (%), 2018
FIGURE 19 Asia Pacific Global Military Airborne Simulation and Training Market BY Country, 2018-2024 (USD MILLION)
FIGURE 20 Middle East & Africa Global Military Airborne Simulation and Training Market SHARE (%), 2018
FIGURE 21 Middle East & Africa Global Military Airborne Simulation and Training Market BY Country, 2018-2024 (USD MILLION)
FIGURE 22 South America Global Military Airborne Simulation and Training Market SHARE (%), 2018
FIGURE 23 South America Global Military Airborne Simulation and Training Market BY Country, 2018-2024 (USD MILLION)