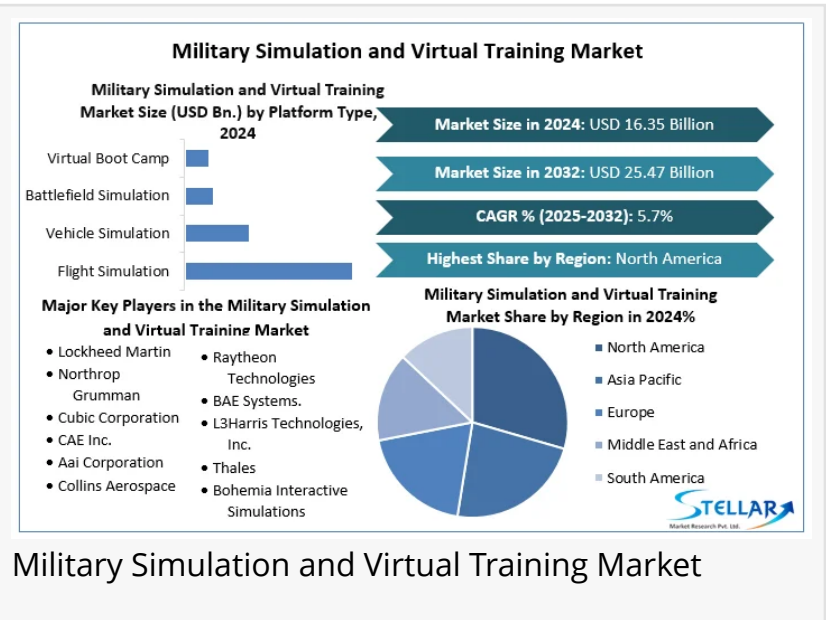


Military Simulation and Virtual Training Market Size to Reach USD 25.47 Bn by 2032 | AI, AR, and Digital Twin Systems

Military Simulation and Virtual Training Market size was valued at USD 16.35 Bn. in 2024 and is expected to reach USD 25.47 Bn. by 2032, at a CAGR of 5.7%.

ORLANDO, FL, UNITED STATES, October 7, 2025 /EINPresswire.com/ -- Explore the Global [Military Simulation and Virtual Training Market](#) 2025–2032 – driven by AI, VR, and synthetic environment systems transforming air, ground, and naval training for next-gen military preparedness.

Military Simulation and Virtual Training Market Overview:



Military Simulation and Virtual Training Market

Military Simulation and Virtual Training Market is reshaping global defense with simulation-based training for soldiers using VR, AR, AI-powered simulators, and digital twin systems across air, ground, and naval platforms. North America leads with USD 20B+ investments and innovations like Lockheed Martin’s ACES and IVAS, while Europe, Asia-Pacific, and the Middle East adopt scalable, immersive solutions. Key players, Lockheed Martin, Northrop Grumman, BAE Systems, L3Harris, and Thales, drive growth via acquisitions, partnerships, and COTS military simulators, delivering high ROI, enhanced readiness, and cutting-edge defense capabilities.

“

The Military Simulation and Virtual Training Market is set to transform defense readiness with VR, AR, and AI-powered simulators, driving cost-efficient, immersive, and scalable training across air”

Navneet Kaur

Revolutionizing Defense: How Military Simulation and

Virtual Training Solutions Are Transforming Air, Ground, and Naval Readiness

The Military Simulation and Virtual Training Market is revolutionizing defense with safe, cost-effective, and immersive virtual training solutions across air, ground, and naval platforms. Using VR, AR, and AI-powered simulators, soldiers train in realistic environments without live exercise risks, making simulation-based training for soldiers a strategic priority amid shrinking military budgets. Advanced systems like the F-35 Full Mission Simulator allow pilots to complete nearly half of their flights virtually, saving USD 44,000 per hour, while the U.S. Army’s Synthetic Training Environment (STE) merges simulation with live exercises for smarter, faster readiness.

Global Military Simulation and Virtual Training Market Segments Covered	
By Platform Type	Flight Simulation Vehicle Simulation Battlefield Simulation Virtual Boot Camp
By Software	Virtual Training Environments (VR) Augmented Training Environments (AR) Mix Reality Digital Twin Other
By Application	Ground Air Naval
By Region	North America - United States, Canada, and Mexico Europe – UK, France, Germany, Italy, Spain, Sweden, Russia, and Rest of Europe Asia Pacific – China, South Korea, Japan, India, Australia, Indonesia, Philippines, Malaysia, Vietnam, Thailand, Rest of APAC Middle East and Africa - South Africa, GCC, Egypt, Nigeria, Rest of the Middle East and Africa South America – Brazil, Argentina, Rest of South America

Military Simulation and Virtual Training Market Segment

□ Access the full Research Description at: https://www.stellarmr.com/report/req_sample/military-simulation-and-virtual-training-market/2400

Transforming Military Preparedness: Opportunities in VR, AR, and AI-Powered Simulation Training

The Military Simulation and Virtual Training Market presents immense opportunities for defense organizations and technology innovators as demand for AI-based defense simulation solutions soars. With rising global defense modernization, shrinking training budgets, and the push for cost-effective simulation training for soldiers, there is huge potential for developing next-generation flight, battlefield, and vehicle simulation systems. Emerging areas like portable simulators, cloud-based virtual training, immersive AR environments, and Virtual Boot Camp Military Training programs offer defense forces smarter, safer, and more flexible training options. AI-based defense simulation solutions enhance scenario realism, decision-making analytics, and adaptive training personalization.

Cyber Threats on the Frontline: Safeguarding the Future of Military Simulation and Virtual Training

Military Simulation and Virtual Training Market integrates advanced VR, AR, and AI technologies, with cybersecurity in military simulation and virtual training becoming mission-critical. Highly networked simulators risk data breaches that could compromise ISR systems, weapons platforms, and communications networks. India alone faced over 2,100 weekly cyberattacks per organization in 2023, making it one of the most targeted nations worldwide. To safeguard mission-critical data, defense agencies must strengthen cyber resilience, adopt secure cloud

frameworks, and invest in real-time threat detection to ensure the integrity and future growth of the military simulation and virtual training ecosystem.

Sky-High Costs Drive Groundbreaking Growth in the Military Simulation and Virtual Training Market

Military Simulation and Virtual Training Market is witnessing rapid growth as soaring pilot training costs and rising defense budgets drive adoption of advanced simulation-based solutions. The Air segment dominates due to the high expense of flight training, over USD 10 million per F-35A pilot, making virtual flight simulators vital for cost control and performance. Breakthroughs in VR, AR, mixed reality, digital twin military training solutions, and synthetic environment military simulation are transforming air, ground, and naval training into hyper-realistic, data-driven experiences. Big Data in defense training allows continuous feedback loops, real-time mission analytics, and predictive readiness modeling. With nations like the U.S. and China expanding defense investments, demand for next-generation military simulation and virtual training systems continues to accelerate.

Key Trends in Military Simulation and Virtual Training: Cybersecurity Integration and Scalable, Adaptive Solutions

Cybersecurity Training: Integrating cyber defense modules into military simulation and virtual training is a rising trend, enhancing readiness against evolving digital threats.

Scalability and Flexibility: Military simulation and virtual training allow rapid scaling and adaptation, keeping forces mission-ready for evolving defense needs.

Key Development: Lockheed Martin Launches ACES – Advanced Wargaming & Simulation Platform Transforming Military Training and Operational Planning

July 15, 2025 – Lockheed Martin's ACES, a cutting-edge wargaming and simulation platform, accelerates innovation and operational planning, enabling military leaders to test tactics, assess force structures, and conduct realistic scenario-based analysis with unmatched flexibility and scalability.

□ Access the full Research Description at: https://www.stellarmr.com/report/req_sample/military-simulation-and-virtual-training-market/2400

Cutting-Edge Soldier Training: North America Dominates Military Simulation & Virtual Training with Next-Level Technology

North America leads the Military Simulation and Virtual Training Market, fueled by robust defense budgets, cutting-edge R&D, and advanced technologies. Key innovations like Lockheed Martin's IVAS augmented reality goggles, ENVG-B night vision systems, and STE-IS training

software are revolutionizing soldier readiness, enabling real-time scenario-based training, enhanced situational awareness, and simultaneous multi-location exercises. With U.S. DoD investing over \$20 billion and programs like OMNIVORE-IT pushing immersive VR intelligence training, the region sets the benchmark for next-generation defense simulation and virtual training solutions.

Strategic Partnerships and Acquisitions Fuel Rapid Expansion of Military Simulation & Virtual Training Technologies

Leading players in the Military Simulation and Virtual Training Market are driving growth through strategic acquisitions, product launches, and high-impact partnerships. Notably, BAE Systems partnered with Inzpire in 2022 to deliver a unified synthetic training environment for immersive, high-fidelity military exercises, while L3Harris Technologies acquired ForceX Simulation in 2023 to expand cutting-edge VR and AR training solutions. These moves underscore the market's rapid evolution and the race to advance next-generation defense training technologies.

Military Simulation and Virtual Training Market Key Players

North America

Lockheed Martin (USA)
Northrop Grumman (USA)
Cubic Corporation (USA)
CAE Inc. (Canada)
AAI Corporation (USA)
Collins Aerospace (USA)
L3Harris Technologies, Inc. (USA)
Raytheon Technologies (USA)
The Boeing Company (USA)
General Dynamics Corporation (USA)

Europe

BAE Systems (UK)
Thales (France)
SAAB AB (Sweden)
Leonardo S.p.A. (Italy)
Bohemia Interactive Simulations (Czech Republic)

Middle East / Asia

Elbit Systems Ltd. (Israel)

Analyst Perspective:

The Military Simulation and Virtual Training Market is accelerating globally, fueled by defense modernization, cost-efficient VR, AR, and AI-powered simulators across air, ground, and naval platforms. North America leads with advanced technologies and USD 20B+ strategic investments, while Europe, Asia-Pacific, and the Middle East rapidly adopt scalable, immersive solutions. Key players, Lockheed Martin, Northrop Grumman, BAE Systems, L3Harris, and Thales, drive growth through acquisitions, partnerships, and next-gen VR/AR launches. With innovations in cloud-based simulation, AI analytics, and integrated cybersecurity, the market promises high ROI, enhanced operational readiness, and unparalleled defense capabilities, emerging as a global hub for technological leadership and strategic investment.

FAQ

Q1: Why this report?

A1: It highlights global market trends, growth drivers, and strategic insights for defense and tech investments.

Q2: How does it benefit defense forces?

A2: VR, AR, and AI simulators deliver safe, scalable, and cost-effective training across air, ground, and naval platforms.

Q3: Opportunities for providers and investors?

A3: Cloud-based simulation, immersive AR, and cyber-integrated solutions offer high ROI and next-gen defense innovation.

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Lumawant Godage
Stellar Market Research
+ +91 9607365656

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