Digital Battlefield Market Share, Trends, Growth, and Revenue Projections by 2031

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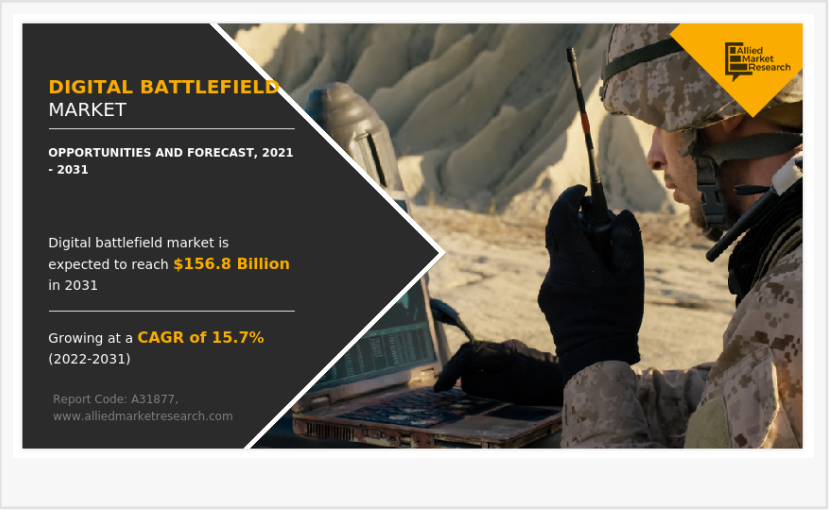

WILMINGTON, DE, UNITED STATES, November 28, 2025 / EINPresswire.com/ -- The global digital battlefield industry size is expected to grow to $156.8 billion by 2031, having absorbed a value of $38.0 billion in 2021, exhibiting a notable CAGR of 15.7% from 2022 to 2031.

The global digital battlefield market growth is attributed to several factors, such as an increase in 5G network adoption for ultra-fast data collection, the rapid advancement of robotics technologies, big data analytics, and artificial intelligence, and a robust military and defense expenditure. On the other hand, huge investments are needed in the early stages of digitization and worries about the risk of mistakes in complex warfare scenarios impede the growth of the global market. Furthermore, the increasing demand for digital battlefield equipment in defense and the deployment of new-generation missiles and air defense systems bring remunerative opportunities for the growth of the industry in the coming years.

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Defense forces have growing demand to analyze, process, and identify the essential data from different sources to deliver more effective situational awareness to decision-makers in combat operations, this is estimated to reinforce the demand for digital battlefield products and technologies. The success of an individual naval military, land and air operations depends on the correctness of situational awareness intelligence. The digital battlefield includes surveillance & reconnaissance, advanced intelligence technologies incorporated with command & control capabilities, that provide maritime, ground and air solutions with situational awareness information for real-time decision-making. Such factors are expected to support the global sales of the digital battlefield over the projected timeframe.

Artificial intelligence, big data analytics and robotics technologies are turning into a part of defense organizations driven by the ease of data from digital battlefield sources like C4ISR (Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance). Defense and military sectors are gradually spending on information and analytics processing to improve capabilities of artificial intelligence in the digital battlefield.

IoT in military resonates the networking of a few integrative regions like programming information and designs, radio range, energy productivity, web innovation, information sensor frameworks, investigation, versatile processing, installed equipment, networks, the board. The rapid extension of internet of things (IOT) is endorsed by plunging expenditures and large-scale design of progressively huge microelectronics like sensors, handling units, and collectors.

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The rise in reputation of the latest innovative technologies like artificial intelligence and machine learning and its quick implementation in the cloud computing is fostering the growth of the cloud computing and master data management in digital battlefield. There has been a steep increase in the technical advancements since the incident of the COVID-19 pandemic across the developed and developing regions.

The mobile network like 5G in defense has the capability to connect almost everyone and everything, including objects, gadgets, and machines. The deployment of remarkably high-speed 5G networks for defense and security objectives could enhance logistics operations for increased efficiency, expand ISR processing and systems, and build new command and control ways, among other things. The 5G software and hardware will be used by military equipment and technology companies and for future & current systems, profiting from valuable properties such as wide quick response times and bandwidths, which will consent for encouragingly reception and fast transmission of images representing real-time battlefield scenarios.

Artificial intelligence in defense indicates to the assimilation of the emerging and latest technology with the military equipment to increase its efficiency and strength. In developed regions, defense sector is the sector, which receives huge investments from their particular government. This money is used in research and development for developing advanced equipment and to be used at the time of war. AI equipped military systems are able of handling large amount of data efficiently. Additionally, these systems have enhanced self-regulation and self-control due to its enhanced decision-making and computing abilities.

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Independent weapon platforms are using computer vision technology to track and identify

objects. AI can help in the withdrawal of useful information from equipment's such as automatic identification and radars systems. Thus, updating the military weapons and tools and equipment's with modern technologies drives the growth for artificial intelligence.

The advancement in big data technologies has undoubtedly been helpful to the defense sector of several countries including the US, Russia, and China. It has supported the access to huge volumes of data and the ability to scale ingestion. The strong network is needed to collect the data and keep all the defense and military devices connected. Defense and militaries can influence big data analytics on large datasets to provide meaningful results and insights.

In terms of region, North America garnered the major market share in 2021, generating nearly three-fifths of the global digital battlefield market revenue, and is predicted to continue its dominance throughout the forecast period. due to the widespread adoption of high-tech digital battlefields, as well as the rise in the military's demand for combat equipment. On the other hand, Asia Pacific would exhibit the fastest CAGR of 22.1% from 2022 to 2031. This is due to the fact that digital battlefield solutions are widely used in the region.

Industry-Leading Players:

L3Harris Technologies, Inc.
Raytheon Technologies Corporation
Atos SE
Booz Allen Hamilton Inc.
Leonardo S.P.A.
Raytheon Technologies Corporation
Lockheed Martin Corporation
Elbit Systems Ltd.
Northrop Grumman Corporation
Teledyne FLIR LLC

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