

Synthetic Aperture Radar Market Size and Forecasts (2020 - 2030), Global and Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Component (Receiver, Transmitter, and Antenna), Frequency Band (X Band, L Band, C Band, S Band, and Others), Application (Commercial and Defense), Platform (Ground and Airborne), Mode (Single and Multi), and Geography (North America, Europe, Asia Pacific, Middle East & Africa, and South & Central America)

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Abstracts

The synthetic aperture radar market size is projected to grow from US\$ 5.27 billion in 2022 to US\$ 12.32 billion by 2030; it is anticipated to grow at a CAGR of 11.2% from 2022 to 2030. Factors such as the rising demand for advanced technologies that offer enhanced environmental awareness, the increasing need for efficient surveillance and communication networks, the growing deployment of space-based radars, and the increasing utilization of SAR for environmental awareness and mapping purposes play a crucial role in market expansion. Moreover, the integration of deep learning is expected to bring new synthetic aperture radar market trends in the coming years. In terms of revenue, the Middle East & Africa held a significant synthetic aperture radar market share. The MEA market is segmented into Saudi Arabia, South Africa, the UAE, and the Rest of MEA. The region is focusing on developing space capabilities. The National Space Fund establishment by the UAE in 2022 is a significant development in the UAE's project to foster home-grown space talent, with the goal of building national capabilities and competencies, increasing economic contribution to diversifying the



national economy, and consolidating the UAE's position in space. In 2022, the UAE Space Agency announced the National Space Fund worth US\$ 817 million. In July 2022, the UAE announced its plans to develop a swarm of synthetic aperture radar (SAR) satellites under the Sirb project. The project will address the critical need for better environmental and land usage monitoring, data collection, and analysis to meet today's global challenges.

Several firms in the region are also partnering to deliver near real-time, high-definition images of on-the-ground conditions across the Middle East. For example, in November 2023, Bayanat AI and AI Yah Satellite Communications Company partnered to expand the earth observation (EO) space program from five to seven synthetic aperture radar (SAR) satellites. This partnership aims to deliver near real-time, high-definition images of on-the-ground conditions across the Middle East. Thus, such development in the region favors the growth of the market.

The utilization of synthetic aperture radar (SAR) technology in South Africa has found extensive applications, particularly in the maritime sector. The accessibility of new, freely available SAR imagery from satellites such as Sentinel-1 has significantly enhanced the feasibility of monitoring vast coastal regions within South Africa. SAR satellites possess the capability to monitor extensive areas of the Earth's surface, regardless of day or night conditions, enabling direct measurements of surface current, wave, and wind fields. Notably, SAR products play a crucial operational role in ship and oil spill detection, tracking the propagation of swell fields across ocean basins, and monitoring ice movements. In the South Africa synthetic aperture radar market, the Council for Scientific and Industrial Research (CSIR) has emerged as an active participant in the development of radar systems, including SAR. Through collaborations with other entities, they have successfully designed and developed a wide-area maritime synthetic aperture radar system catering specifically to customers in the small satellite market. The involvement of CSIR has contributed to the growth and advancement of the SAR industry within South Africa.

The synthetic aperture radar market analysis is carried out by identifying and evaluating key players in the market across different regions. Northrop Grumman Corp, ASELSAN AS, BAE Systems Plc, Israel Aerospace Industries Ltd, Leonardo SpA, Lockheed Martin Corp, Raytheon Technologies Corp, Thales SA, General Atomics Aeronautical Systems Inc, and Saab AB are key players profiled in the synthetic aperture radar market report. The overall synthetic aperture market analysis has been derived using both primary and secondary sources. To begin the synthetic aperture market research process, exhaustive secondary research has been conducted using internal and external sources to obtain qualitative and quantitative information related to the market. The process also serves the purpose of obtaining an overview and market forecast for the synthetic aperture radar market growth with respect to all market segments. Also, multiple



primary interviews have been conducted with industry participants and commentators to validate the data and gain more analytical insights about the topic. Participants of this process include industry experts such as VPs, business development managers, market intelligence managers, and national sales managers—along with external consultants such as valuation experts, research analysts, and key opinion leaders—specializing in the synthetic aperture radar market forecast.



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