

# **Middle East & Africa Simultaneous Localization and Mapping Market Forecast to 2031 - Regional Analysis - by Offerings (2D SLAM and 3D SLAM), System Type (Camera Based and LiDAR Based), and Application (Robotics, UAV, AR or VR, Automotive, RTLS, and Others)**

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## **Abstracts**

The Middle East & Africa simultaneous localization and mapping market was valued at US\$ 21.04 million in 2023 and is expected to reach US\$ 197.24 million by 2031; it is estimated to register a CAGR of 32.3% from 2023 to 2031.

Utilization of SLAM Technology in Space Applications Bolsters Middle East & Africa Simultaneous Localization and Mapping Market

The advancement of autonomous robotic platforms for space applications such as robotic manipulators, satellites, and rovers has fueled the requirement for consistent navigation and control procedures. SLAM algorithms can be utilized to identify the position and orientation of robotic platforms while generating a map of an unknown hostile environment. The global space sector is driven by rising demand for services such as earth observation, satellite communications, and positioning timing and navigation. The space sector is witnessing the growing presence of private players and experiencing heightened demand arising from the need for space information. Constellations of small satellites in Low Earth Orbit are a major part of this movement, known as NewSpace. In November 2023, Exotrail introduced SpaceVan, its first payload-hosting vehicle for low Earth orbit. The geostationary version of the vehicle is anticipated to be launched in 2026. In January 2024, the company announced its plans to launch a new orbital vehicle aimed at small satellites that are required to transit from

geostationary transfer orbit to their destination.

In March 2024, Blue Origin announced the launch Blue Moon lunar lander in 2025. In March 2024, SpaceX launched a Starship rocket into orbit on a test flight. Thus, the growing number of initiatives toward space activities are likely to continue to propel the growth of the simultaneous localization and mapping market during the forecast period.

### Middle East & Africa Simultaneous Localization and Mapping Market Overview

Substantial infrastructure developments owing to economic growth are witnessed in the Middle East & Africa. Major airports such as Dubai International, Hamad International, and King Fahd International are leading the region's modernization efforts by incorporating new technologies and extensive expansion projects. For example, Jeddah Airport Company is aiming to expand King Abdulaziz International Airport with an investment of US\$ 31 billion. Beyond major hubs, regional airports in countries such as Ethiopia and Morocco contribute to improve connectivity and economic development. The ongoing expansion project at Cape Town International Airport is experiencing technological advancement, a new runway, new international and domestic departure lounges, a terminal, and other facilities. The developments are anticipated to be completed by the end of 2024. Thus, a rise in investment and government initiatives toward the development of construction and infrastructure is expected to fuel the growth of automation and robotic technologies.

### Middle East & Africa Simultaneous Localization and Mapping Market Revenue and Forecast to 2031 (US\$ Million)

### Middle East & Africa Simultaneous Localization and Mapping Market Segmentation

The Middle East & Africa simultaneous localization and mapping market is categorized into offerings, system type, application, and country.

By offerings, the Middle East & Africa simultaneous localization and mapping market is divided into 2D SLAM and 3D SLAM. The 2D SLAM segment held a larger share of the Middle East & Africa simultaneous localization and mapping market share in 2023.

In terms of system type, the Middle East & Africa simultaneous localization and mapping market is bifurcated into camera based and LiDAR based. The camera based segment held a larger share of the Middle East & Africa simultaneous localization and mapping market share in 2023.

Based on application, the Middle East & Africa simultaneous localization and mapping market is segmented into robotics, UAV, AR or VR, automotive, RTLS, and others. The robotics segment held the largest share of the Middle East & Africa simultaneous localization and mapping market share in 2023.

Based on country, the Middle East & Africa simultaneous localization and mapping market is segmented into South Africa, Saudi Arabia, the UAE, and the Rest of Middle East & Africa. Saudi Arabia segment held the largest share of Middle East & Africa simultaneous localization and mapping market in 2023.

ANAVS GmbH; Applanix; Exyn Technologies Inc; FARO Technologies Inc; Kudan Inc; Kuka AG; Leica Geosystems AG; Leishen Intelligent System Co., Ltd; MAXST Co Ltd; NavVis GmbH; Nexxis; Rethink Robotics GmbH; Sevensense Robotics AG; Slamcore Ltd; and Visimind AB are among the leading companies operating in the Middle East & Africa simultaneous localization and mapping market.

#### Reason to buy

Save and reduce time carrying out entry-level research by identifying the growth, size, leading players, and segments in the Middle East & Africa simultaneous localization and mapping market.

Highlights key business priorities to assist companies to realign their business strategies.

The key findings and recommendations highlight crucial progressive industry trends in Middle East & Africa simultaneous localization and mapping market, thereby allowing players across the value chain to develop effective long-term strategies.

Develop/modify business expansion plans by using substantial growth offering developed and emerging markets.

Scrutinize in-depth Middle East & Africa market trends and outlook coupled with the factors driving Middle East & Africa simultaneous localization and mapping market, as well as those hindering it.

Enhance the decision-making process by understanding the strategies that

underpin commercial interest with respect to client products, segmentation, pricing, and distribution.

## The List of Companies - Middle East & Africa Simultaneous Localization and Mapping Market

ANAVS GmbH

Applanix

Exyn Technologies Inc

FARO Technologies Inc

Kudan Inc

Kuka AG

Leica Geosystems AG

Leishen Intelligent System Co., Ltd

MAXST Co Ltd

NavVis GmbH

Nexxis

Rethink Robotics GmbH

Sevensense Robotics AG

Slamcore Ltd

Visimind AB

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