

South & Central America 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 South & Central America simultaneous localization and mapping market was valued at US\$ 15.70 million in 2023 and is expected to reach US\$ 125.69 million by 2031; it is estimated to register a CAGR of 29.7% from 2023 to 2031.

Growing Significance of Advanced Algorithms of SLAM Technology in Healthcare Fuels South & Central America Simultaneous Localization and Mapping Market

Endoscopy is one of the crucial subjects in gastroenterology. The expansion of image technology has provided technological support in the medical device sector. The SLAM technology is used to map the location environment and, at the same time, leverage the signal provided by the sensors to trace the sensor system in the environment. In order to streamline the navigation system for normal invasive abdominal surgery, a laparoscopic navigation system based on SLAM was fabricated. Combining medical information with real-time laparoscopic video can enhance the doctor's field of view, assist in detecting critical areas, and facilitate safer and more efficient surgical processes.

Furthermore, to enable robots to perform in unknown environments, the SLAM technology is utilized to fabricate a semantic map of healthcare facilities to achieve spatial layouts and identify the surrounding environment. Visual SLAM uses cameras

and sensors, including stereo, monocular, and RGB-D cameras, in medical and healthcare applications such as identifying medicines, drugs, and equipment.

South & Central America Simultaneous Localization and Mapping Market Overview

The countries in South & Central America are notably focused on developing the advanced air mobility ecosystem. The growing concern about mitigating carbon footprint and the rising need for fast same-day package delivery are factors fueling the demand for air taxis and cargo drones in South & Central America. In October 2021, Eve Urban Air Mobility, LLC, an Embraer company, and Aviation Management Services signed a Letter of Intention, announcing a partnership with an aim to develop the UAM ecosystem in South & Central America. The leading players in the South & Central American advanced air mobility are focusing on starting their commercial production of eVTOL platforms by 2026. Such initiatives are expected to drive the simultaneous localization and mapping technology in South & Central America. The collaborative initiatives facilitated by organizations such as the Brazilian Space Agency (AEB) are anticipated to drive the development of space technology across Brazil. These partnerships foster research and development, encouraging knowledge exchange and expertise among member nations. In 2022, Marcopolo collaborated with Brazilian autonomous mobility startup Lume Robotics and introduced the first prototype of an autonomous minibus in South America. The growing focus on integrating autonomous technology in the automotive sector is projected to drive the evolution of the simultaneous localization and mapping market in the region.

South & Central America Simultaneous Localization and Mapping Market Revenue and Forecast to 2031 (US\$ Million)

South & Central America Simultaneous Localization and Mapping Market Segmentation

The South & Central America simultaneous localization and mapping market is categorized into offerings, system type, application, and country.

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

In terms of system type, the South & Central America simultaneous localization and mapping market is bifurcated into camera based and LiDAR based. The camera based

segment held a larger share of the South & Central America simultaneous localization and mapping market share in 2023.

Based on application, the South & Central America 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 South & Central America simultaneous localization and mapping market share in 2023.

Based on country, the South & Central America simultaneous localization and mapping market is segmented into Brazil, Argentina, and the Rest of South & Central America. Brazil segment held the largest share of South & Central America 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 South & Central America 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 South & Central America 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 South & Central America 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 South & Central America market trends and outlook coupled with the factors driving South & Central America 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 - South & Central America 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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