

Simultaneous Localization and Mapping Market Size and Forecast (2021 - 2031), Global and Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Offerings (2D SLAM and 3D SLAM), System Type (Camera Based and LiDAR Based), Application (Robotics, UAV, AR or VR, Automotive, RTLS, and Others), and Geography

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Abstracts

The Simultaneous Localization and Mapping market size was valued at US\$ 481.52 million in 2023 and is expected to reach US\$ 5,572.53 million by 2031; it is estimated to record a CAGR of 35.8% from 2023 to 2031.

The Simultaneous Localization and Mapping market is segmented into five major regions—North America, Europe, Asia Pacific (APAC), the Middle East & Africa (MEA), and South & Central America. North America dominated the market in 2023, followed by Asia Pacific and Europe, respectively. Companies such as ABB Ltd. introduced T702—a tug-style autonomous mobile robot (AMR) that leverages Visual SLAM navigation to create a 360-degree point cloud of data to navigate in changing environments in June 2024.

The augmented importance of last-mile delivery is driving the demand for unmanned aerial vehicles. The major focus is on enhancing reliability, improving customer experience, and increasing the competitiveness of the product delivery ecosystem. Thus, the demand for small drones is increasing across Europe and is anticipated to drive the simultaneous localization and mapping market. Additionally, the growing government focus on the development of the healthcare sector is also increasing the application of simultaneous localization and mapping (SLAM). The European Union



approved a budget of US\$ 5.81 billion (?5.3 billion) during 2021–2027 for the healthcare sector. The growing technological advancement is owing to the integration of cutting-edge technologies such as image-based SLAM (V-SLAM) technology in the healthcare sector.

China is one of the major contributors to the Asia Pacific simultaneous localization and mapping market. China holds a significant position in robotics technology, accounting for ~52% of robot installations globally in 2022. This offers a high opportunity for SLAM technology in the country. The growing proliferation of industrial robots and the integration of smart autonomous technologies in the automotive, healthcare, and manufacturing sectors are projected to drive the growth of the simultaneous localization and mapping market in China. The high presence of space technology organizations such as Beijing Spacecraft Manufacturing Co., Ltd; China Aerospace Science and Technology Corporation; and Kongtian Dongli drives the market in China. New product developments and collaborations are the major drivers for the simultaneous localization and mapping market growth in the country.

Based on offering, the simultaneous localization and mapping market is bifurcated into 2D SLAM and 3D SLAM. The 2D SLAM segment held the largest Simultaneous Localization and Mapping market share in 2023. 2D simultaneous localization and mapping (SLAM) is primarily leveraged in service robots, indoor sweepers, cleaning robots, and warehouse automatic guided vehicles. The technology is widely utilized in indoor environments owing to its operational flexibility and performance stability. 2D SLAM effectively simplifies the process for a robot to map an environment by excluding dynamic objects from the indoor environment to generate an accurate map. The significance of 2D SLAM technology becomes crucial to accurately locate a mobile robot in an unknown environment. 2D SLAM technology effectively addresses the challenges of low localization accuracy and ineffective real-time performance of traditional mobile robots.

Sevensense Robotics AG; Rethink Robotics GmbH; NavVis GmbH; Kudan Inc; Exyn Technologies Inc; Slamcore Ltd; MAXST Co Ltd; FARO Technologies Inc; ANAVS GmbH; Nexxis; Kuka AG; Leica Geosystems AG; Applanix; Leishen Intelligent System Co., Ltd.; and Visimind AB are among the key Simultaneous Localization and Mapping market players that are profiled in this market study.

The overall Simultaneous Localization and Mapping market size has been derived using both primary and secondary sources. Exhaustive secondary research has been conducted using internal and external sources to obtain qualitative and quantitative



information related to the Simultaneous Localization and Mapping size. The process also helps obtain an overview and forecast of the market with respect to all the market segments. Also, multiple primary interviews have been conducted with industry participants to validate the data and gain analytical insights. This process includes 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 Simultaneous Localization and Mapping market.



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