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Future of Autonomous Systems - Focus On Autonomous Navigation Software Market - A Global and Regional Analysis: Focus on Application, Sector, Platform, Software Technology, and Country - Analysis and Forecast, 2023-2033

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Abstracts

Future of Autonomous Systems: Focus on Autonomous Navigation Software Market Overview

The future of autonomous systems: focus on autonomous navigation software market was valued at $3.15 billion in 2022, and it is expected to be $5.68 billion by 2033. This market is expected to be driven by the continuous advancements and adoption of digital technologies, government initiatives for the adoption of autonomous technologies, and the increasing demand for automation and efficiency in various industries, such as manufacturing, transportation, healthcare, and agriculture. Additionally, the growing need for reducing human error and increasing safety in critical operations is also expected to drive the adoption of autonomous systems.

Market Lifecycle Stage

The future of autonomous systems: focus on autonomous navigation software market has gained significant importance over the years 2019-2022. Over the past few years, industry participants have been focusing on technologies such as thermal stereo sensing in autonomous vehicles, rapid developments in humanoid robot technology, and the use of 360-degree stabilized vision and depth collision in autonomous systems. Furthermore, artificial intelligence (AI), machine learning (ML), robotics, sensor fusion, and IoT technologies play a crucial role in enhancing the capabilities of autonomous systems.

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Impact

The future of autonomous systems: focus on autonomous navigation software market is expected to grow significantly in the coming years, driven by various factors such as increasing focus on sustainability and environmental responsibility. However, there are several challenges to the adoption of autonomous systems. Regulatory and ethical concerns, cybersecurity risks, and the high cost of implementation are some of the challenges that industry participants and policymakers must address to promote the widespread adoption of these technologies. On the other hand, the desire for increased efficiency, scalability, continuous advancements and adoption of digital technologies, and cost savings are the major drivers for the growth of the future of autonomous systems: focus on autonomous navigation software market. Furthermore, as the adoption of autonomous systems continues to grow, it is likely that new business models will emerge, such as autonomous trucks, buses, shuttles, and drone delivery networks. The advancement in autonomous platforms has the potential to disrupt traditional industries and create new opportunities for prominent as well as emerging stakeholders operating in the ecosystem.

Market Segmentation

Segmentation 1: by Application

- Logistics and Warehouse Management
- Automated Manufacturing
- Surveillance and Inspection
- Agriculture
- Mobility
- Others

Segmentation 2: by Sector

- Commercial

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Military

Civil Government

Segmentation 3: by Platform

Autonomous Vehicle (Trucks/Buses/Vans)

Unmanned Aerial Vehicle (UAV)

Unmanned Underwater Vehicle (UUV)

Unmanned Surface Vehicle (USV)

Autonomous Mobile Robot

Collaborative Robot (Cobot)

Humanoid

Segmentation 4: by Software Technology

Visual SLAM

LiDAR SLAM

Neuromorphic Chip

Natural Intelligence

Based on application, the future of autonomous systems: focus on autonomous navigation software market is expected to be dominated by the mobility segment. In addition, based on sector, the future of autonomous systems: focus on autonomous navigation software market is expected to be dominated by the commercial segment during the forecast period. Moreover, based on software technology, the future of

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autonomous systems: focus on autonomous navigation software market is expected to be dominated by the visual SLAM segment. Furthermore, based on the platforms, the market is expected to be dominated by autonomous vehicles (trucks/buses/vans).

Segmentation 5: by Region

North America - U.S. and Canada

Europe - France, Germany, Russia, U.K., and Rest-of-Europe

Asia-Pacific - China, Japan, India, Australia, and Rest-of-Asia-Pacific

Rest-of-the-World - Middle East and Africa and South America

Recent Developments in the Future of Autonomous Systems: Focus on Autonomous Navigation Software Market

In November 2022, Goggo Network, which is an autonomous mobility company, signed a memorandum of understanding (MoU) with Mobileye to increase the adoption of autonomous mobility and logistics in Spain and Europe. Goggo Network aims to introduce level 4 autonomy in Spain with this collaboration.

In November 2022, UAV Navigation collaborated with Qascom for an OSNMAplus project. This project focuses on the development of technologies by making use of services provided by the European (GNSS) Global Navigation Satellite System.

In November 2022, Velodyne Lidar, Inc. signed a multi-year agreement with GreenValley International to provide its lidar sensors for 3D surveying and mapping.

In September 2022, Lyft collaborated with Argo AI, LLC, and started offering a public rob taxi service in Austin, Texas. This is the second city after Miami to operate commercial robotaxi service.

In July 2022, Velodyne Lidar, Inc. signed a multi-year contract with Boston Dynamics, a developer of mobile robotics, to provide perception and navigation capabilities for Boston’s highly mobile robots. Velodyne’s Lidar sensor

solutions allow mobile robots to work autonomously and safely without the need for human intervention. They provide 3D perception data in real-time for localization, mapping, object categorization, and object tracking.

In June 2022, Sensible 4 and Bodo Municipality collaborated for the world's first long-term autonomous driving service in the city of Bodo, Norway.

In May 2022, Sensible 4 and Moove GmbH collaborated to launch the vehicle at a startup event in Helsinki. The companies aim to launch shuttle buses in the European market.

In April 2022, Argo AI, LLC partnered with 412 Food Rescue to autonomously deliver food to people facing food insecurity in the region.

In March 2022, Oceaneering International partnered with BlueBotics for its new product line. This is expected to strengthen its position in the autonomous systems market.

Demand - Drivers and Limitations

Following are the drivers for the future of autonomous systems: focus on autonomous navigation software market:

Continuous Advancements and Adoption of Digital Technologies

Government Initiatives for Adoption of Autonomous Technologies

Increased Need to Reduce Human Errors

Following are the challenges for the future of autonomous systems: focus on autonomous navigation software market:

High Costs and Complexity Involved in the Development of Autonomous Solutions

Lack of Advanced Communication Infrastructure

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Requirement of Fixed Infrastructure to Operate Autonomous Systems

Following are the opportunities for the future of autonomous systems: focus on autonomous navigation software market:

Increasing Adoption of Autonomous Systems across Industries

Rising Investments in Autonomous Technology

How can this report add value to an organization?

Platform/Innovation Strategy: The product segment helps the reader to understand the different types of products and software technologies. Moreover, the study provides the reader with a detailed understanding of the different autonomous navigation software technologies such as LiDAR SLAM, visual SLAM, neuromorphic chips, and natural intelligence.

Growth/Marketing Strategy: The future of autonomous systems: focus on autonomous navigation software market has seen major development activities by key players operating in the market, such as business expansion activities, contracts, mergers, partnerships, collaborations, and joint ventures. The most favored strategy for the companies has been contracts to strengthen their position in the future of autonomous systems: focus on autonomous navigation software market. For instance, in November 2022, Goggo Network, which is an autonomous mobility company, signed a memorandum of understanding (MoU) with Mobileye to increase the adoption of autonomous mobility and logistics in Spain and Europe. Goggo Network aims to introduce level 4 autonomy in Spain with this collaboration. Furthermore, in November 2022, UAV Navigation collaborated with Qascom for an OSNMAplus project. This project focuses on the development of technologies by making use of services provided by the European (GNSS) Global Navigation Satellite System.

Competitive Strategy: Key players in the future of autonomous systems: focus on autonomous navigation software market analyzed and profiled in the study involve autonomous systems manufacturers that offer platforms such as autonomous mobile robots (AMRs), humanoids, unmanned aerial vehicles (UAVs), unmanned surface vehicles (USVs), collaborative robots (Cobots), and unmanned underwater vehicles (UUVs). Moreover, a detailed market share analysis of the players operating in the

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future of autonomous systems: focus on autonomous navigation software market offers advanced technologies such as thermal stereo sensing in autonomous vehicles, artificial intelligence, and computer vision technologies. These technologies are enabling the development of more sophisticated autonomous systems that can perform increasingly complex tasks with greater speed and accuracy. Additionally, comprehensive competitive strategies such as contracts, partnerships, agreements, acquisitions, and collaborations will aid the reader in understanding the untapped revenue pockets in the market.

Key Market Players and Competition Synopsis

The companies that are profiled have been selected based on inputs gathered from primary experts and analysis of the company's coverage, product portfolio, and market penetration.

In 2021, the top segment players leading the market included established players, constituting 71.3% of the presence in the market. Emerging market participants include startup entities that account for approximately 28.7% of the presence in the market.

Key Companies Profiled

- Argo AI, LLC
- BlueBotics
- Brain Corporation
- Cruise LLC
- Inertial Sense
- Incubed IT GmbH
- Mobileye
- Opteran Technologies
- Robo Tech Vision

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