

Global Advanced-Surface Movement Guidance & Control System (A-SMGCS) Market Size Study & Forecast, by Application, Offering, Level, Investment, Sector, and Regional Forecasts 2025-2035

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Abstracts

Global Advanced-Surface Movement Guidance & Control System (A-SMGCS) Market is valued approximately at USD 5.7 billion in 2024 and is anticipated to grow with a CAGR of 5.73% over the forecast period 2025–2035. A-SMGCS plays an indispensable role in ensuring the safety and efficiency of aircraft movements on the ground, especially during low visibility operations and traffic congestion. These systems integrate multiple data sources, including radar, multilateration, satellite navigation, and surveillance sensors to provide real-time guidance and control across all runway and taxiway surfaces. As airports increasingly gear toward smart operations, A-SMGCS acts as the backbone for collaborative decision-making, optimized runway utilization, and collision risk mitigation, driving global demand for its integration and expansion.

Airports across the world are proactively investing in Level 3 and Level 4 A-SMGCS infrastructures to cope with escalating passenger volumes and streamline ground operations in compliance with ICAO safety mandates. The growing complexity of airside environments, propelled by new aircraft technologies and advanced air mobility systems, necessitates the deployment of multi-layered surveillance and guidance systems. Additionally, as urban air mobility and unmanned aircraft systems (UAS) begin intersecting with conventional airspace and apron areas, the need for robust ground control infrastructures becomes paramount. However, high capital intensity, prolonged certification cycles, and interoperability issues with legacy systems remain significant hurdles that may temper the market's pace in the short term.

Regionally, Europe stands at the forefront of A-SMGCS deployment, led by Eurocontrol-

driven harmonization efforts and Smart Airport initiatives across major hubs such as Frankfurt, Paris, and Amsterdam. North America follows closely with the FAA's modernization of surface movement safety systems under the NextGen framework. Meanwhile, the Asia Pacific region is anticipated to register the fastest CAGR during the forecast period, bolstered by massive airport infrastructure investments in China, India, and Southeast Asia. Governments in the Middle East are also scaling up their airport capabilities to accommodate booming aviation growth, with advanced ground movement systems being prioritized in mega airport projects across the UAE and Saudi Arabia.

Major market players included in this report are:

Indra Sistemas S.A.

Saab AB

Thales Group

Honeywell International Inc.

Leonardo S.p.A.

ADB Safegate

Raytheon Technologies Corporation

Frequentis AG

Northrop Grumman Corporation

Era a.s.

Searidge Technologies

ALTYs Technologies

ANSART BV

HENSOLDT AG

Advanced Navigation and Positioning Corporation

Global Advanced-Surface Movement Guidance & Control System (A-SMGCS) Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period – 2025–2035

Report Coverage – Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope – North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope – Free report customization (equivalent up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segments of the market are explained below:

By Application:

Surveillance

Planning

Monitoring

Guidance

By Offering:

Hardware

Software

Maintenance

By Level:

Level 1

Level 2

Level 3

Level 4

By Investment:

New Deployment

Upgrade

By Sector:

Civil

Military

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia Pacific

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

Latin America

Brazil

Mexico

Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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