

# **Airport Ground Mobility Systems Market Forecasts to 2034 – Global Analysis By System Type (Ground Support Equipment Management Systems, Airside Vehicle Management Systems, Apron Management Systems, Ground Traffic Control Systems and Other System Types), Technology, Deployment, Airport Type, End User, and Geography**

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## **Abstracts**

According to Statistics MRC, the Global Airport Ground Mobility Systems Market is accounted for \$6.3 billion in 2026 and is expected to reach \$15.8 billion by 2034 growing at a CAGR of 12.2% during the forecast period. Airport ground mobility systems are integrated technologies that manage and optimize the movement of aircraft, ground vehicles, personnel, and equipment within airport operational areas. These systems utilize GPS, radar, artificial intelligence, IoT sensors, advanced surface movement guidance, and real-time communication technologies to coordinate taxiing, baggage handling, fueling, maintenance, and ground support operations. Airport ground mobility systems improve operational efficiency, reduce congestion, enhance safety, and minimize aircraft turnaround times. Increasing air traffic and airport modernization initiatives are driving the global adoption of airport ground mobility systems.

Market Dynamics:

Driver:

Rising aircraft ground traffic

Airport ground mobility systems coordinate the movement of aircraft service vehicles

baggage equipment and personnel across airport aprons and taxiways. They improve operational efficiency while enhancing safety throughout ground operations. Growing passenger volumes are increasing demand for efficient airside traffic management. Airports are investing in digital control systems to reduce congestion and improve turnaround times. Smart mobility technologies are supporting better coordination among ground handling teams. The increasing complexity of airport operations continues to encourage system modernization.

#### Restraint:

##### High infrastructure deployment costs

Deploying advanced mobility systems requires investments in communication networks surveillance equipment software platforms and intelligent traffic management technologies. These projects often involve extensive upgrades to existing airport infrastructure. Smaller airports may delay implementation due to limited capital budgets. System integration and maintenance further increase overall project costs. Financial barriers continue to affect adoption in emerging markets. Cost considerations remain a key challenge for large-scale deployment.

#### Opportunity:

##### Autonomous airside vehicle deployment

Autonomous vehicles can transport baggage cargo and airport supplies with minimal human intervention. They improve operational efficiency while reducing delays across airside logistics. Airports are testing autonomous technologies to optimize ground handling activities. Artificial intelligence and sensor technologies are improving navigation accuracy. Growing interest in smart airport initiatives is accelerating pilot projects worldwide. The shift toward autonomous operations is creating new growth opportunities across the market.

#### Threat:

##### Aviation safety compliance requirements

Ground mobility solutions must comply with strict aviation safety standards before being deployed in operational airport environments. Regulatory approval processes can extend project timelines and increase implementation complexity. Frequent updates to

safety regulations require continuous system modifications. Compliance costs may discourage investment in smaller airport projects. Technology providers must ensure reliable and certified system performance. Meeting stringent safety expectations remains essential for sustained market growth.

#### Covid-19 Impact:

The COVID-19 pandemic significantly reduced airport traffic as international travel restrictions and lower passenger demand affected aviation operations worldwide. Airports accelerated digital transformation initiatives to improve operational resilience and minimize physical interactions during ground handling activities. Contactless technologies and automated mobility systems gained greater attention throughout the recovery period. Investment gradually resumed as global air travel recovered. Airport operators focused on improving efficiency through digital solutions. Automation has remained a strategic priority beyond the pandemic.

The international airports segment is expected to be the largest during the forecast period

The international airports segment is expected to account for the largest market share during the forecast period as these airports handle high passenger volumes extensive aircraft movements and complex ground operations every day. They require advanced mobility systems to coordinate vehicles personnel and aircraft efficiently. Large international hubs continue investing in smart airport technologies. Digital traffic management improves operational coordination and reduces delays. Expansion of global aviation networks further supports segment growth. Its operational scale continues to drive sustained technology adoption.

The ground traffic control systems segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the ground traffic control systems segment is predicted to witness the highest growth rate due to their ability to monitor and manage aircraft and vehicle movements through intelligent surveillance and real-time traffic coordination. These systems improve safety while optimizing airside operations. Airports are adopting advanced digital control platforms to reduce congestion. AI-based monitoring is enhancing operational awareness across airport environments. Modernization programs are accelerating deployment of intelligent traffic management solutions. The segment is expected to play an increasingly important role in next-generation airport operations.

### Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share owing to early adoption of smart airport technologies. The United States leads the market through continuous investments in airport modernization while Canada is upgrading digital airside management systems across major airports. Mexico is expanding airport infrastructure and adopting intelligent ground mobility solutions to improve operational efficiency. Strong aviation infrastructure and ongoing technology investments continue supporting regional leadership. North America remains a key innovation hub for airport ground mobility systems.

### Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR driven by airport infrastructure expansion. China is constructing and modernizing large international airports while India is rapidly expanding aviation infrastructure under national airport development programs. Japan continues deploying advanced airport automation technologies and South Korea is strengthening smart airport ecosystems through digital innovation. Rising air passenger traffic is encouraging greater investment in intelligent ground mobility solutions.

### Key players in the market

Some of the key players in Airport Ground Mobility Systems Market include SITA, Amadeus IT Group S.A., Indra Sistemas, S.A., Honeywell International Inc., Collins Aerospace, Siemens AG, ADB SAFEGATE, Thales Group, Vanderlande Industries B.V., IBM Corporation, Leidos Holdings, Inc., L3Harris Technologies, Inc., Smiths Detection Group Ltd., NEC Corporation and Daifuku Co., Ltd.

### Key Developments:

In February 2026, IBM Corporation signed a multi-year development agreement to deploy its Maximo Application Suite for a major North American transit authority. The deployment integrates cognitive asset management with real-time command operations to mitigate unplanned infrastructure downtime.

In November 2025, Honeywell International Inc. introduced its updated Experion Mobility Supervisor software for urban freight terminal networks. The industrial platform

utilizes automated sensor data fusion to optimize asset tracking, control terminal bottlenecks, and streamline operator workflows.

In September 2025, Leidos Holdings, Inc. secured a modern command-and-control logistics integration contract with a national transportation agency. The multi-year project focuses on building centralized, cyber-hardened communication hubs to supervise intermodal shipping routes.

#### System Types Covered:

Ground Support Equipment Management Systems

Airside Vehicle Management Systems

Apron Management Systems

Ground Traffic Control Systems

Other System Types

#### Technologies Covered:

Artificial Intelligence

Internet of Things (IoT)

Global Positioning System (GPS)

Computer Vision

Other Technologies

#### Deployments Covered:

Cloud-Based

On-Premise

### Airport Types Covered:

International Airports

Domestic Airports

Military Airports

Regional Airports

Other Airport Types

### End Users Covered:

Airport Operators

Airlines

Ground Handling Service Providers

Airport Authorities

Other End Users

### Regions Covered:

North America

United States

Canada

Mexico

Europe

United Kingdom

Germany

France

Italy

Spain

Netherlands

Belgium

Sweden

Switzerland

Poland

Rest of Europe

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Thailand

Malaysia

Singapore

Vietnam

Rest of Asia Pacific

South America

Brazil

Argentina

Colombia

Chile

Peru

Rest of South America

Rest of the World (RoW)

Middle East

Saudi Arabia

United Arab Emirates

Qatar

Israel

Rest of Middle East

Africa

South Africa

Egypt

Morocco

Rest of Africa

#### What our report offers:

Market share assessments for the regional and country-level segments

Strategic recommendations for the new entrants

Covers Market data for the years 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034

Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

Strategic recommendations in key business segments based on the market estimations

Competitive landscaping mapping the key common trends

Company profiling with detailed strategies, financials, and recent developments

Supply chain trends mapping the latest technological advancements

#### Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

##### Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

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