SPACE INSIDER
powered by RESONANCE

Commercial Ground-based Space Domain Awareness

Technology Trends, Competitive Landscape and Market Size

August 2025

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Executive Summary

As space activity surges, tracking objects in orbit has become vital for asset protection, national security, and long-term orbital sustainability—making Space Domain Awareness (SDA) a strategic priority.

This report examines the commercial ground-based Space Domain Awareness (SDA) market, which includes privately developed radars, telescopes, RF sensors, antennas, and data platforms that monitor, track, and characterize objects in orbit to enable safe operations, regulatory compliance, and collision avoidance.

As of 2025, the Commercial Ground Based SDA market is valued at $275 million, with the total market size projected to grow to $474 million by 2030, representing a compound annual growth rate (CAGR) of 11%. This growth reflects both the increasing complexity of the orbital environment and the emergence of new operational and commercial needs.

The commercial ground-based SDA market serves three primary end-user segments:

- Commercial – fastest growth (14% CAGR) as operators safeguard large constellations.
- Civil – growing at a 6% CAGR, driven by increasing reliance on commercial SDA for regulatory compliance, space traffic management and safety.
- Military – expanding at a 5% CAGR as the primary user of premium SDA services to ensure global coverage, threat detection, and national security.

The commercial ground-based SDA market's growth is underpinned by a combination of operational, security, and regulatory factors that are reshaping demand across commercial, civil, and military sectors. Key drivers include:

- Rapid satellite proliferation and mega-constellations – Driving severe LEO congestion, increasing demand for continuous monitoring, collision avoidance, and predictive analytics.
- National security imperatives – Geopolitical tensions and counter-space threats (ASATs[1], cyber risks) fueling investment in resilient, sovereign SDA capabilities.
- Rising space debris risks – Fragmentation events and growing debris populations increasing need for advanced tracking, debris characterization, and risk forecasting.
- Technological advancements – AI/ML-enabled data fusion, anomaly detection, quantum sensing, and next-generation radars expanding detection accuracy and coverage.
- Regulatory compliance pressures – Tightening orbital safety and data-sharing requirements pushing operators toward verifiable, policy-aligned SDA solutions.

Despite growing demand, several challenges persist: **high infrastructure costs, regulatory fragmentation, and limited interoperability between platforms can hamper scalability—especially for new entrants and emerging space nations**.

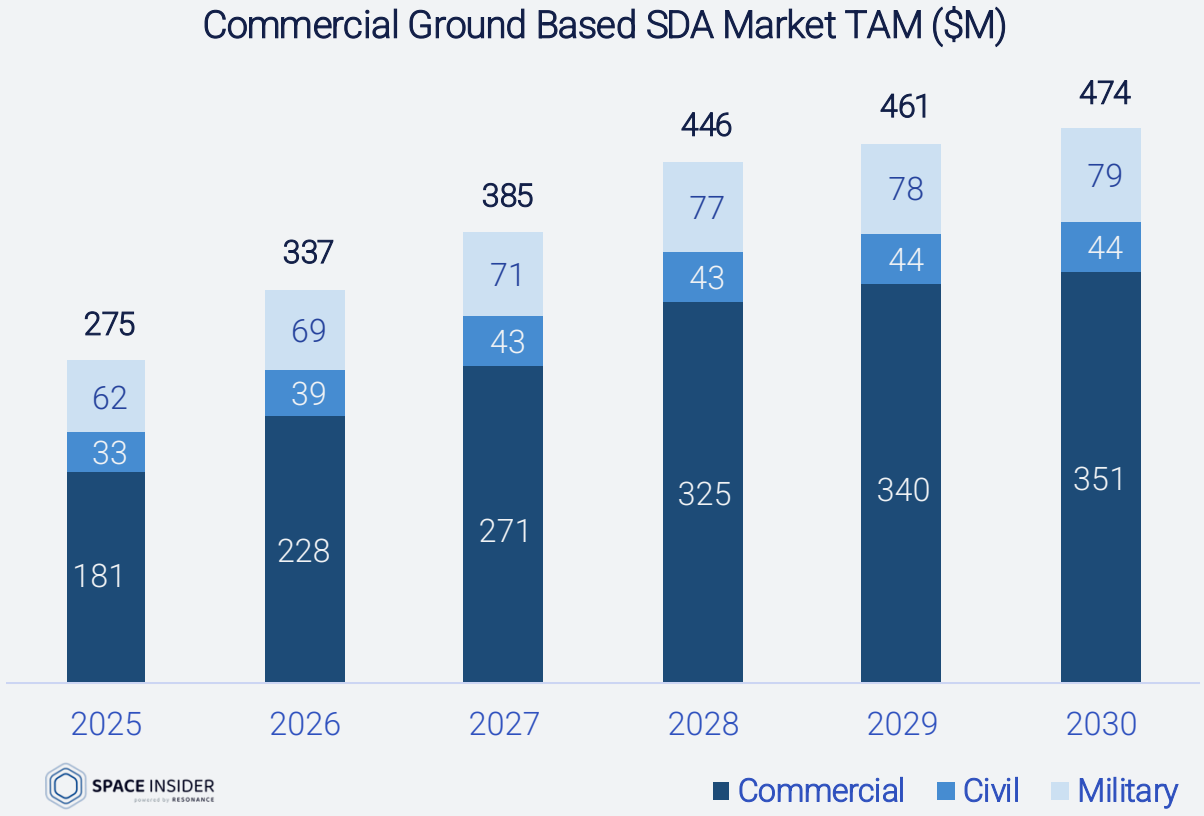
However, a wave of technological and business model innovation is beginning to reshape the landscape.

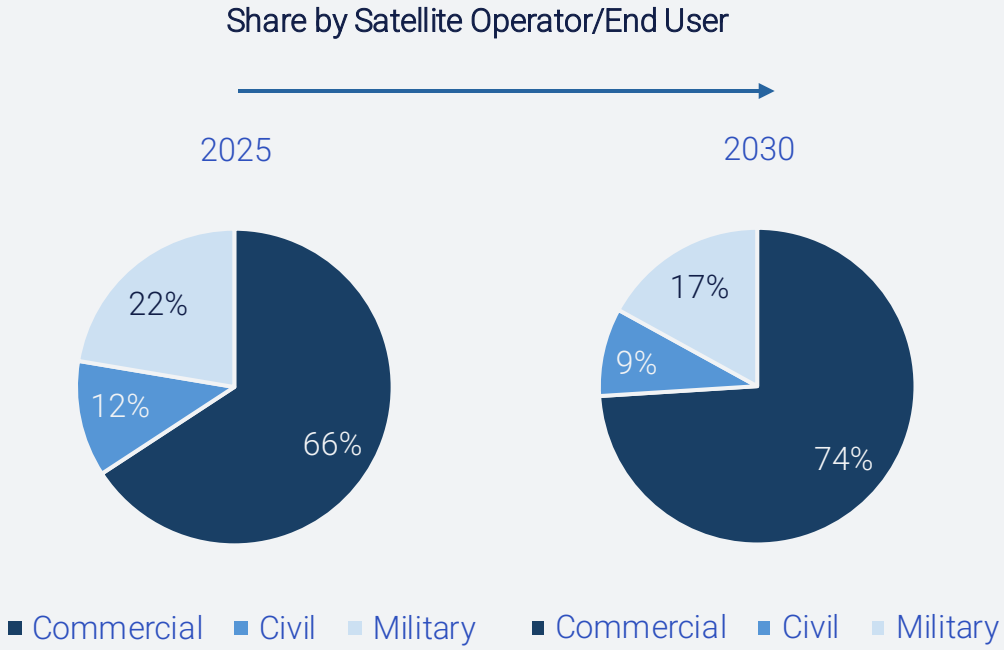
- AI/ML underpins premium services such as autonomous threat classification, predictive risk mitigation, and multi-source data fusion—improving orbital prediction and anomaly detection.
- Quantum sensing and phased-array radars advance object resolution and stealth tracking, unlocking new market opportunities for ultra-precise SDA in low-visibility or contested orbits.
- Cloud-native, API-driven architectures enable distributed data fusion and real-time delivery, while cybersecurity tailored to SDA—intrusion detection, data integrity monitoring, and secure command uplinks—has become a non-negotiable capability.

These advances are creating new commercial revenue streams and evolving the SDA ground segment from a defense-dominated capability into a strategic pillar of the global space economy. As the sector grows, delivering trusted, scalable, and interoperable SDA solutions will define the next phase of market leadership.

1. ASAT - Anti-Satellite Weapons

Commercial Ground Based SDA Market to Hit $474M by 2030, Driven by Sustained Government Investment and Accelerating Commercial Demand





By 2030, commercial adoption—propelled by mega-constellation growth, tighter Space Traffic Management regulations, and wider access to tailored SDA services—is expected to reach 74% market share, up from 66% in 2025. While civil and military segments will grow more steadily due to program cycles and long-term contracts. Commercial operators will drive the bulk of new demand, making them the primary growth engine for the Commercial Ground-Based SDA market.

Table of Contents

Introduction

Commercial Ground-Based Space Domain Awareness

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Introduction to Commercial Ground Based SDA Market

Space Domain Awareness (SDA) encompasses the detection, tracking, identification, and characterization of objects and activities in space, providing critical insights to ensure the safety, security, and sustainability of operations in the space environment.

- The global space economy reached $596 billion in 2024 and is projected to grow to $944 billion by 2033[1]. This rapid growth—driven by increased satellite reliance, commercial activity, and geopolitical tensions—has made Space Domain Awareness (SDA) a strategic priority.
- Orbital activity highlights this trend: active satellites have jumped from ~2,000 in 2019 to around ~10,200 by mid-2025, largely due to mega-constellations like Starlink and OneWeb[2]. Orbital and Sub-orbital launches hit a record 270 in 2024, from 108 in 2019[3]. ESA data shows 35,000+ tracked space objects[4] today—more than twice the figure a decade ago—underscoring the need for precise tracking and traffic management.
- SDA emerged in 2019, evolving from Space Situational Awareness (SSA) to include behavioral analysis, intent, and environmental factors. It marks a shift from static cataloging to predictive, real-time insight, enabling proactive risk mitigation and response.
- Today, SDA is vital for space safety, resilience, and strategic advantage. Ground-based SDA systems—spanning terrestrial infrastructure and technologies—are central to this mission, delivering continuous surveillance and intelligence across defense, government, and commercial domains

Persistent Surveillance
Provides continuous monitoring critical for defense, commercial, and civil space operations

Cost-effective
Lower cost compared to space-based sensors; less expensive to build & maintain

Scalable
Ideal for tracking large constellations and debris

Flexible and Adaptable
Ground-based assets can be upgraded/calibrated/modified to meet evolving threats and mission needs

Footnote: [1] Nova Space Report {2} Livescience [3] Space Insider [4] ESA Report

Core Objectives of the Commercial Ground Based SDA Services

Space Object Tracking & Identification

Detects and monitors space objects across LEO, MEO, and GEO.

- Identifies satellites, debris, and unidentified objects.
- Differentiates between friendly, neutral, and potentially hostile assets.

Threat Detection & Space Security

Identifies and responds to counter-space threats.

- Detects jamming, spoofing, and ASAT weapon tests.
- Monitors rendezvous and proximity operations (RPO).

Mission Planning & Strategic Coordination

Supports military, commercial, and allied space operations.

- Provides command and control for SDA operations.
- Ensures interoperability with multi-domain defense strategies.

Collision Avoidance & Space Traffic Management

Prevents satellite collisions and mitigates debris risks.

- Conducts conjunction assessments and maneuver planning.
- Coordinates with commercial and international partners.

Data Fusion & Decision Support

Integrates data from multiple sensor sources for enhanced situational awareness.

- Aggregates and analyzes radar, optical, and RF monitoring data.
- Uses AI-driven analytics to predict anomalies and improve tracking accuracy.

Commercial SDA Ground Segment Value Chain Analysis

The value chain of the commercial ground-based SDA segment consists of the integration of various sensors and multiple interconnected players contributing to the collection, processing, analysis, and dissemination of space situational data. Together with orbital sensors, it forms a comprehensive SDA architecture capable of responding to evolving threats and challenges in the space environment.

Data Acquisition & Sensor Infrastructure

- Radar systems (e.g., AN/FPS-108 Cobra Dane, Space Fence; phased array, bistatic, multistatic) for enhanced object tracking.
- Optical and infrared telescopes for low-light and high-altitude object detection.
- Passive RF sensing and electronic intelligence (ELINT) for signal interception and spectrum monitoring.

Key sensor networks:

- U.S. Space Surveillance Network (SSN)
- European EUSST
- Commercial providers such as LeoLabs and ExoAnalytic Solutions.

Data Processing and Integration

- Data cleaning and standardization to remove noise, reduce false positives, and format raw inputs.
- Sensor fusion integrates radar, optical, RF, and in-orbit data for precise object tracking.
- AI and machine learning applied to:
  - Collision risk prediction
  - Anomaly detection (e.g., ASAT activity)
  - Automated object classification
- Real-time processing powered by:
  - High-performance computing (HPC)
  - Cloud-based SDA analytics platforms

Data Analysis and Intelligence

- Orbital trajectory prediction and collision avoidance for conjunction assessments and maneuver planning.
- Threat assessment and national security intelligence to monitor adversarial actions, detect hostile maneuvers, and track uncooperative satellites.
- Debris characterization and risk analysis to identify high-risk fragments and model long-term risks across LEO, MEO, and GEO.
- Commercial SSA services providing:
  - Subscription-based platforms for satellite operators.
  - Custom analytics for sectors like insurance and risk management.

Data Distribution and End-User Applications

- Military and defense agencies (e.g., USSPACECOM, NATO) for missile defense and cyber warfare integration.
- Civil and space agencies (e.g., NASA, ESA, CNES, JAXA) for space traffic management and regulatory oversight.
- Commercial satellite operators (e.g., SpaceX, OneWeb, Amazon Kuiper) for operational safety and collision avoidance.
- International collaboration through:
  - Organizations like UNOOSA
  - Public-private partnerships such as the Space Data Association to promote responsible data sharing and coordination.

Key Components of the Commercial SDA Ground Segment

Component	Radar Systems (Ground-based, Phased Array)	Optical Telescopes & Laser Tracking	Radiofrequency (RF) Monitoring Stations	Data Processing & Fusion Systems	Command & Control (C2) Centers
Objective	Provide all-weather, 24/7 tracking of space objects in LEO and MEO	Capture high-definition images and enable precise orbit determination	Detect radio emissions, communications, and electronic warfare (EW) threats	Aggregate and analyze data from radar, optical, and RF sensors to create a unified space picture	Manage real-time SDA operations, space traffic, and strategic coordination
Key Functions	• Detects / tracks satellites, debris, and threats. • Provides high-precision orbital data. • Supports collision avoidance and security operations.	• Provides detailed imaging for satellite characterization. • Tracks maneuvers and potential threats. • Supports space traffic management.	• Identifies jamming, spoofing, and signal interference. • Tracks satellite communication signals. • Supports cybersecurity and spectrum management.	• Integrates multi-sensor data for enhanced SDA awareness. • Uses AI/ML analytics for anomaly detection. • Supports collision avoidance and predictive analysis.	• Directs sensor tasking and surveillance networks. • Supports national security and allied space coordination. • Responds to hostile space activities.
Examples	• SPACE FENCE (Lockheed Martin) • AN/FPS-85 (Eglin AFB, USA) • GLOBUS II Norway	• GEODSS • ILRS (International Laser Ranging Service)	• COBRA DANE (RF Signal Intelligence) • Silent Sentry (RF Monitoring)	• JMS (Joint Space Operations Center Mission System) • AI-driven Sensor Fusion Platforms	• NSDC (National Space Defense Center) • CSpOC

Technology Trends

As orbital activity accelerates and space becomes more congested, contested, and commercially vital, the technological foundation of commercial ground-based SDA is evolving rapidly. The future of ground-based SDA will be defined by the integration of advanced sensing technologies, intelligent automation, and resilient data infrastructure to keep pace with the demands of dynamic, multi-orbit operations.

AI/ML will Become the Operational Backbone

Over the coming years, AI/ML are expected to become core components of ground-based SDA architectures. These technologies will move beyond supporting roles and serve as autonomous decision-making engines—filtering noise, correlating sensor data, predicting satellite maneuvers, and managing increasingly complex satellite constellations.

The trend toward integrating diverse data sources—ranging from ground radars to space-based optical sensors and commercial feeds—will further enhance these AI systems by providing richer, cross-validated situational insights.

AI will also enable real-time anomaly detection and behavioral pattern analysis, making it possible to preemptively identify threats such as suspicious rendezvous or unexpected orbital shifts. As the volume of space traffic scales exponentially, AI-driven systems will be essential to maintain situational clarity and reduce operator burden.

Quantum Sensing & Next-Gen Radars will Expand Detection Frontiers

One of the most transformative developments on the horizon is the emergence of quantum technologies in SDA—particularly quantum sensing. These systems leverage quantum phenomena such as entanglement and superposition to enable ultra-sensitive measurements of position and velocity. In the future, quantum-enhanced sensors could dramatically improve the detection and characterization of small, distant, or low-RCS (Radar Cross Section) objects—including micro-debris and stealthy spacecraft—filling gaps in current radar-based systems.

In parallel, next-generation radar architectures are advancing rapidly. These include adaptive phased-array systems, passive RF sensing, and multi-static radar networks, all of which will offer greater spatial coverage, higher resolution, and the ability to track non-cooperative or maneuvering objects. As the number of space actors grows—and with it the risk of intentional interference or unregistered launches—these radar systems will be essential for persistent, high-fidelity surveillance of critical orbital regimes.

Cybersecurity will be Central to SDA Credibility

Ensuring the integrity, availability, and confidentiality of SDA data is mission-critical—not only for operational reliability, but also to prevent manipulation or disruption of space traffic information. Emerging solutions include quantum-safe cryptography, secure communication protocols for multi-stakeholder data sharing, and zero-trust architectures tailored to space systems.

As SDA networks grow more interconnected—with commercial, civil, and defense actors sharing tracking data and operational alerts—cybersecurity will become a foundational enabler of trust and resilience. Ground-based SDA providers will be expected to implement zero-trust architectures, resilient data encryption, and real-time threat monitoring to defend against spoofing, data manipulation, and system intrusion.

The future SDA landscape will prioritize secure-by-design systems, especially as AI-enabled SDA platforms become targets of strategic interest.

Key Stakeholders

The SDA ecosystem is complex, involving a variety of stakeholders from different sectors, each contributing to ensuring the safety, security, and sustainability of space activities. Governments, defense organizations, commercial entities, research institutions, and international alliances work together to ensure the safe and secure use of space. International cooperation -led by UNOOSA- is particularly vital to the SDA market, underpinning joint surveillance, data sharing, and global coordination.

Defense Departments and Military Organizations

Defense and military organizations are key players in the SDA ecosystem due to space's critical role in national security and the dual-use nature of space infrastructure.

- The U.S. Space Force leads in protecting U.S. space assets, managing the Space Surveillance Network (SSN), and advancing SDA technologies. Its operational unit, the 18th Space Defense Squadron, coordinates global space traffic, while Space Systems Command (SSC) oversees a $15B acquisition budget, including SDA initiatives.
- Responsibility for space traffic management is gradually shifting to the U.S. Commerce Department, which is building regulatory and technical capabilities to manage civilian efforts. Meanwhile, the Space Force collaborates with commercial partners to enhance SDA capabilities and expand the Unified Data Library.
- Globally, other spacefaring nations—including France, China, Russia, and India—also maintain military branches focused on space security and defense against ASAT threats.

Civil Governments

Governments play a foundational role in the Commercial Ground Based SDA market by establishing regulations, funding infrastructure, and leading space security efforts. Their responsibilities include monitoring space objects, managing traffic, and safeguarding national interests in orbit. Key stakeholders include:

- National Space Agencies like NASA, ESA, CNSA, and ISRO, which build surveillance systems and share tracking data.
- Space Regulatory Bodies such as the FCC and EUSPA, which set standards for satellite operations and traffic management.
    - EUSPA & ESA oversee the EU's Space Surveillance and Tracking (SST) program and coordinate SDA efforts across European member states, encouraging civil-military collaboration.

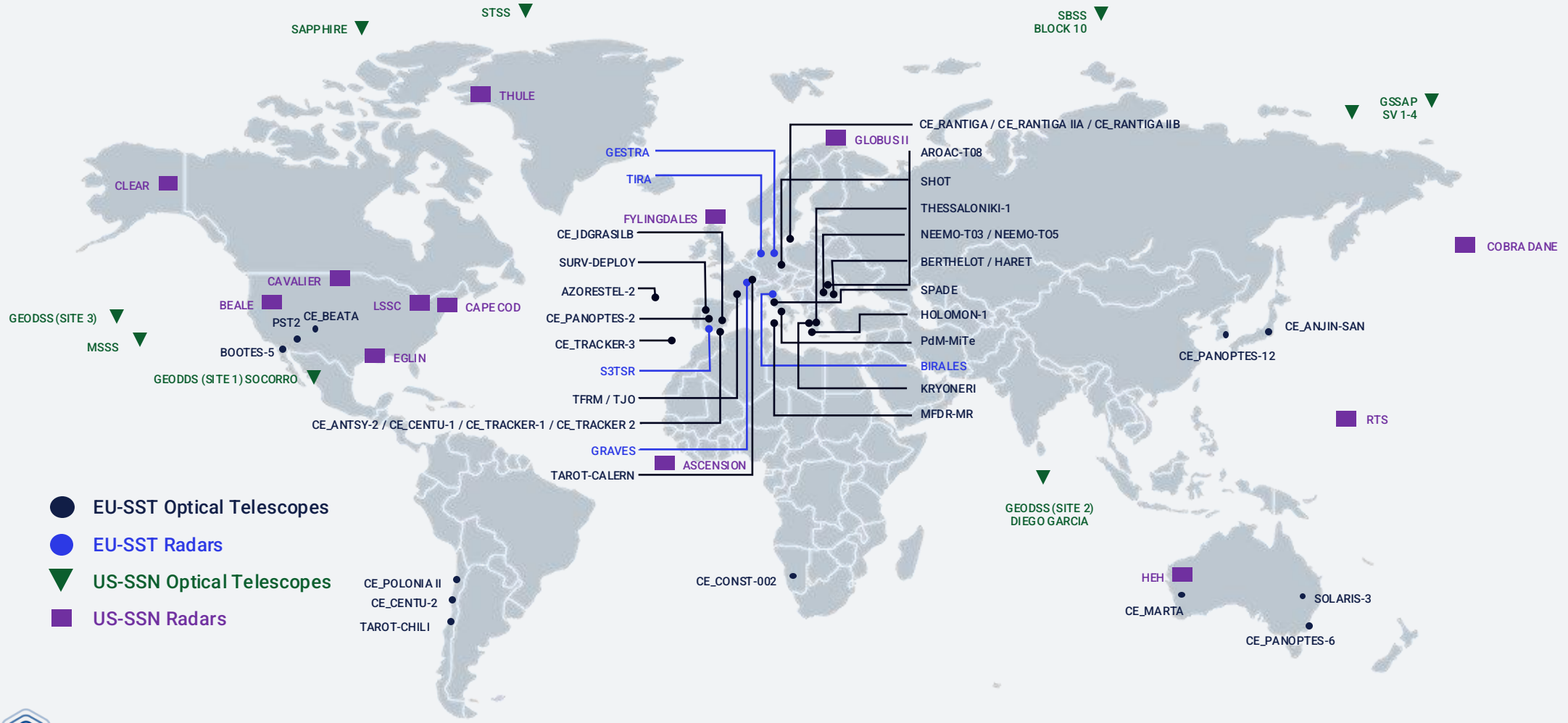
Commercial Entities

The private sector is playing an increasingly important role in the Commercial Ground Based SDA, market contributing capabilities across multiple segments:

- Satellite Operators (e.g., SpaceX, SES, Iridium, OneWeb) rely on SDA to protect large constellations, prevent collisions, and manage orbital traffic.
- SDA Service Providers like LeoLabs, ExoAnalytic, and Slingshot Aerospace offer real-time tracking, analytics, and predictive services using proprietary sensor networks to support collision avoidance and space traffic management.
- Aerospace & Defense Contractors such as Lockheed Martin, Northrop Grumman, Boeing, and Airbus design and build SDA-related ground infrastructure and bring deep expertise from both military and commercial space programs.

Note: This study covers global SDA stakeholders but excludes China, Russia, and Iran from its geographic scope.

Global Ground-Based SDA Sensor Network:
EU SST + US SSN Coverage



Souces: EU SST and National Security Archive

Competitive Landscape

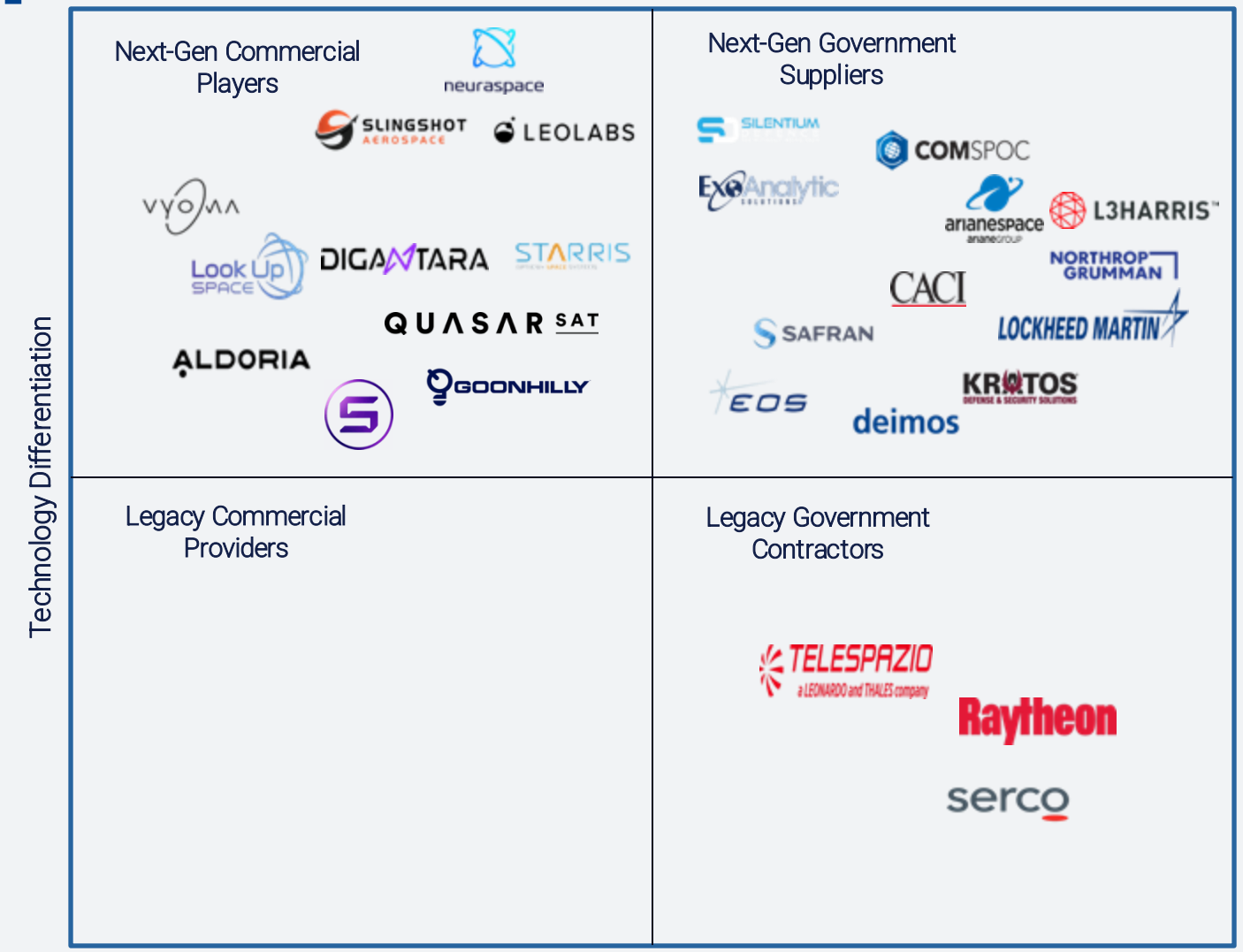
Ground-Based SDA: Capability Landscape

		Data Acquisition & Sensor Infrastructure			Data Processing & Fusion			Data Analysis & Intelligence			Data Distribution/ End-User Applications		
		Radar	Optical/Infrared Telescopes	RF Signal Monitoring/Geolocation	Data Correlation/ Sensor Fusion	AI/ML Algorithms	Cloud/Edge Computing	Orb. Trajectory Prediction/Collision Avoid.	Threat Assessment /National Security Intel	Debris Characterization/Risk Analysis	Military & Defense	Civil & Government Agencies	Commercial
Category	**Company**												
Major Defense Contractors / Systems Integrators	Raytheon	■	■		■	■	■	■	■	■	■	■	■
	Lockheed Martin	■	■		■			■	■	■	■	■	■
	Northrop Grumman	■						■		■	■		■
	L3Harris Technologies	■			■				■		■		
Defense / Govt Service Providers	CACI	■	■	■	■	■	■	■	■	■	■		
	SERCO Inc		■		■			■	■	■	■	■	
	Kratos Defense & Security Solutions			■				■	■		■		■
	Silentium Defence	■					■	■	■		■		■
	Safran			■	■		■	■	■		■		■
	ArianeGroup		■		■			■	■	■	■	■	■
Telecom	Telespazio	■	■					■	■	■	■	■	■
Commercial SDA Solutions Providers	Electro Optic Systems (EOS)		■		■	■	■		■		■	■	
	LeoLabs	■				■	■	■	■	■	■	■	■
	Slingshot Aerospace		■		■	■		■	■	■	■	■	■
	ExoAnalytics		■			■		■	■	■	■	■	■
	COMSPOC (a Slingshot company)	■	■	■	■	■	■	■	■	■	■	■	■
	LookUp Space	■			■	■	■	■	■	■	■	■	■
	Aldoria		■		■	■		■	■	■	■	■	■
	Vyoma		■		■	■		■	■	■	■	■	■
	Digantara		■		■	■		■	■	■	■	■	■
	Deimos (acq. by Indra)		■		■	■	■	■	■	■	■	■	■
	Neuraspace	■	■		■	■	■	■		■	■	■	■
	Goonhilly	■		■				■		■	■	■	■
	Spaceflux		■		■			■		■	■	■	■
	Starris		■		■		■		■	■	■	■	■
	Quasar Satellite Technologies			■	■	■	■	■	■	■	■	■	■

■ Data Acquisition & Sensor Infrastructure ■ Data Processing & Fusion ■ Data Analysis & Intelligence Capabilities ■ Data Distribution/ End-User Applications ☐ No Capability

Competitive Landscape

- The SDA ground segment is undergoing a rapid transformation as commercial players disrupt a market long dominated by traditional defense contractors.
- Next-Gen Government suppliers like Lockheed Martin, Northrop Grumman, and L3Harris have historically led the sector, delivering radar-based surveillance and military-grade tracking systems to the U.S. DoD and allied governments. However, their dominance is being challenged by a new wave of agile companies leveraging innovative technologies.
- Firms such as LeoLabs, Slingshot Aerospace, and NorthStar Earth & Space are redefining the market with cloud-native, AI-powered, and data-driven SDA solutions. These challengers offer real-time space traffic awareness, cost-efficiency, and seamless integration with both commercial and government systems—making them highly competitive in today's dynamic environment.
- The shift is driven by the growing need for scalable, responsive systems to manage the surging number of space objects—something traditional networks like the U.S. Space Surveillance Network (SSN) struggle to handle alone. As a result, governments and commercial operators are increasingly turning to private-sector innovations to ensure safe and sustainable space operations.
- To succeed, SDA providers must differentiate through technological innovation, customer alignment, and the ability to adapt to both civilian and defense requirements.



Major Industry Players in North America (1 of 5)

The global ground-based SDA market is highly concentrated, with a few dominant players shaping industry trends and holding significant market share. 26 key companies have been considered for the purpose of this report, nine of which are publicly traded, with a collective market valuation of USD 552 billion. Each of these companies contributes to the SDA ground ecosystem, offering specialized technologies ranging from radar and optical tracking systems to AI-driven space object analytics.

Company	Year Founded	HQ	Company Profile	Key Capabilities	Market Capitalization	SDA Capabilities
LOCKHEED MARTIN	1912		Lockheed Martin supports global SDA through advanced radar and optical tracking systems integrated with SSN and programs like Space Fence for high-res LEO monitoring. Provides software for data fusion, orbit prediction, and threat analysis to enhance real-time situational awareness for national and allied security.	• Space Fence: Uses Gallium Nitride (GaN) S-band radars for LEO tracking • iSpace™ Software: Provides space traffic management and battle management capabilities. • FireOPAL: A wide-field surveillance system developed with Curtin University, offering real-time tracking across all orbital regimes.	• Market Cap.: $112B	
NORTHROP GRUMMAN	1939		Northrop Grumman delivers radar, C2 platforms, and data fusion tech for tracking and threat assessment of on-orbit objects. Supports U.S. DoD SDA programs, including the SSN and next-gen scalable tracking systems.	• Deep-Space Advanced Radar Capability (DARC): 24/7 monitoring of geosynchronous orbit (GEO) for improved space surveillance. • Ground-Based Sensor Networks integrate radar and optical systems to support U.S. military and allied SDA operations.	• Market Cap.: $70B	

Legend

Radar

Optical Telescopes

RF Monitoring Stations

Major Industry Players in North America (2 of 5)

Company	Year Founded	HQ	Company Profile	Key Capabilities	Market Capitalization	SDA Capabilities
L3HARRIS	2019		L3 Harris is a leading player in ground-based SDA solutions, offering radar systems, sensor networks, and software platforms designed for space object detection, tracking and analysis. Plays a crucial role in the U.S. Space Force's Space Systems Command (SSC).	• Consolidated Operational Data Archive (CODA): Ingests and analyses SDA data from multiple sources, integrating with the U.S. Space Force's Unified Data Library (UDL). • Advanced radar systems support high-precision space object detection and tracking	• Market Cap.: $45B	
KRATOS DEFENSE & SECURITY SOLUTIONS	1994		Kratos provides advanced SDA solutions through its KnownSpace platform, a global Radio Frequency (RF) sensor network specialized in tracking, analyzing, and responding to space-based activities with high precision, enabling defense, intelligence, and commercial operators to make quick decisions based on actionable insights.	• KnownSpace uses 140+ RF sensors at 20+ global sites for precise SDA tracking across all orbits. • Operates day and night, complementing radar and optical system limitations. • OpenSpace® platform manages the global RF sensor network in real time.	• Market Cap.: $5.8B	
LEOLABS	2016		Leolabs specializes in tracking space debris and providing real-time monitoring of satellite operations. Operates a network of radar systems located around the world, including its Space Surveillance Radar (SSR) in multiple regions, to track and monitor objects in LEO.	• Global Phased-Array Radar Network: Rapidly deployable and fully automated tracking system. • Collision Prediction Services: AI-powered risk assessment and avoidance recommendations.	• Total Raised: $111M	

Legend

Radar

Optical Telescopes

RF Monitoring Stations

1. L3Harris Technologies, Inc. was formed by the merger of L3 Technologies and Harris Corporation on June 29, 2019

Major Industry Players in North America (3 of 5)

Company	Year Founded	HQ	Company Profile	Key Capabilities	Market Capitalization	SDA Capabilities
SLINGSHOT AEROSPACE	2017		Slingshot Aerospace supports government agencies and commercial organizations worldwide to enhance space safety and situational awareness, particularly through partnerships like the Joint Commercial Operations Cell. Specializes in SDA, offering observational and analytical insights.	• Slingshot Global Sensor Network: Offers LEO-to-GEO day-and-night tracking using optical sensors and astrometric data. • Multiple Frame Assignment Space Tracker (MFAST): AI-based object classification and maneuver detection. • ML-driven insights into satellite behavior patterns and anomalies.	• Total Raised: $149M	
ExoAnalytic	2008		ExoAnalytic specializes in ground-based optical sensors for high-resolution tracking of space objects. Its SSAN platform integrates sensor data and analytics to monitor satellites and debris, serving defense, intelligence, and commercial users with real-time tracking, anomaly detection, and catalog management.	• 350+ autonomous telescopes in the ExoAnalytic • Global Network deliver real-time SDA insights. • Tracks objects with 15–30 sec latency. • Provides high accuracy at GEO and other orbits.AI tools enable fast anomaly detection and tracking.	• Not disclosed	
STARRIS	2005		Starris specializes in advanced space-based optical systems for Space Domain Awareness. Its SDA-85 monolithic telescope platform delivers high-precision imaging across UV, visible, and infrared bands, enabling detection, tracking, and characterization of space objects.	• Rapid, low-risk deployment for responsive small-sat missions • Patented monolithic telescope ensuring perfect optical alignment • Athermal and rugged—stable focus without complex on-orbit adjustment	• Not disclosed	

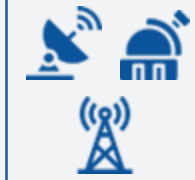
Legend

Radar

Optical Telescopes

RF Monitoring Stations

Major Industry Players in North America (4 of 5)

Company	Year Founded	HQ	Company Profile	Key Capabilities	Market Capitalization	SDA Capabilities
Raytheon An RTX Business	1922		Raytheon supports military and allied users with early warning, space surveillance, and threat detection. It operates LOCI systems in the U.S., UK, and Australia for continuous LEO monitoring and integrates SDA capabilities with NORSSTrack for predictive analytics, tracking, and re-entry risk assessment.	• Ground-based radars for satellite tracking, missile warning, and programs like Space Fence. • Optical systems (e.g., LOCI) deployed for persistent LEO tracking across multiple countries. • Real-time data fusion and tools like NORSSTrack for orbital analysis and mission planning. • SDA systems deployed in allied nations (e.g., UK, Australia) for joint space security efforts.	• Market Cap: $183B	
CACI	1962		CACI delivers advanced ground-based SDA using RF, optical, and cyber-resilient tech for real-time RSO detection, tracking, and characterization. Operates RF sensor networks and offers mission-critical data fusion, AI analytics, threat assessment, and collision avoidance for military and intelligence clients.	• Radio-Frequency (RF) Sensing: Advanced passive RF detection systems for tracking space-based and terrestrial emitters across multiple orbits. • Optical Tracking: Electro-optical and infrared (EO/IR) capabilities for detection and characterization of resident space objects (RSOs). • Sensor Fusion: Integration of RF, optical, and other sensor modalities to provide a holistic space situational picture.	• Market Cap.: $9B	

Legend

Radar

Optical Telescopes

RF Monitoring Stations

Major Industry Players in North America (5 of 5)

Company	Year Founded	HQ	Company Profile	Key Capabilities	Market Capitalization	SDA Capabilities
serco	1929		Serco North America supports U.S. government space surveillance, including the GEODSS system. It provides operations, maintenance, and technical services for optical and radar tracking sites under major defense contracts.	• Operates and maintains electro-optical systems like GEODSS for deep-space tracking. • Supports U.S. Space Force SDA programs with mission ops, sustainment, and logistics.	• Market Cap.: $2.6B	
COMSPOC	2014		ComSpOC, operated by Slingshot Aerospace, is a commercial SDA service delivering real-time and predictive insights into satellite trajectories, collisions, and object behavior. Built on AGI-developed software, it uses global, multi-source data fusion from optical, radar, and RF sensors via commercial, government, and allied partners—without owning its own sensor network.	• 50+ ground-based optical sensors enable persistent GEO tracking. • Integrated radar systems, including a 46m dish, enhance daily GEO belt surveillance. • RF sensors (long- and short-baseline) ensure constant custody of GEO satellites. • Space-based sensors provide full GEO coverage and object characterization.	• Not disclosed	

Legend

Radar

Optical Telescopes

RF Monitoring Stations

Major Industry Players in EMEA (1 of 4)

Company	Year Founded	HQ	Company Profile	Key Capabilities	Market Capitalization	SDA Capabilities
TELESPAZIO a LEONARDO and THALES company	1961		Telespazio delivers end-to-end SDA solutions with strong ground segment capabilities for tracking RSOs, debris, and near-Earth objects. Its infrastructure—including the Fucino Space Centre—supports a broad network of space centers and teleports.	• Key offerings encompass Fragmentation Detection, Reentry Prediction, Conjunction Analysis, and Collision Avoidance. • For defense and intelligence sectors, Telespazio provides advanced services such as Pattern of Life analysis, Anomaly Detection, and Spawning and Warning systems to safeguard space assets.	• Undisclosed	
SAFRAN	2005		Safran offers SDA solutions via its subsidiary, Safran Data Systems. The company actively collaborates with international defense and space organizations. The company's technologies are integral to initiatives like NATO's NITEC Connect and the U.S. Joint Task Force-Space Defense's Sprint Advanced Concept Training (SACT) exercises.	• Passive RF sensor network for real-time, all-weather satellite tracking and maneuver detection. • RF monitoring for signal detection, interference analysis, and geolocation. • Laser terminals enabling secure satellite-to-ground data links up to 10 Gbps. • TT&C modems and high-rate receivers for secure telemetry and mission support.	• Market Cap.: $125B	

Legend

Radar

Optical Telescopes

RF Monitoring Stations

Major Industry Players in EMEA (2 of 4)

Company	Year Founded	HQ	Company Profile	Key Capabilities	Market Capitalization	SDA Capabilities
arianeGROUP	2015		Ariane is a leading European aerospace and defense company specializing in launch systems, propulsion, and space security. In the realm of SDA, ArianeGroup offers advanced surveillance and tracking capabilities through its Helix system.	• Operates 25+ optical/infrared stations for 24/7 monitoring of LEO, MEO, GEO, and cislunar space. • Uses laser ranging and IR sensors for all-condition object tracking. • Provides SDA services for civil and defense users, including collision risk and traffic management.	• Not disclosed	
neuraspace	2020		NeuralSpace is a Portugal-based company specializing in SDA and Space Traffic Management (STM). Leveraging artificial intelligence (AI) and machine learning (ML), Neuraspace offers a suite of services designed to enhance the safety, security, and sustainability of space operations.	• Automates conjunction analysis and maneuver planning using AI/ML, reducing operator workload and response time. • Combines ground-based and space-based sensor data (optical, GNSS) for real-time space object tracking. • Offers threat detection and decision intelligence to secure national space assets.	• Total raised: $2.7M	
GOONHILLY	2009		GOONHILLY Earth Station provides robust, all-weather, day-and-night SDA services. Leveraging decades of heritage in satellite communications, Goonhilly supports defense, government, and commercial clients with critical space situational data.	• Enables in-space operations, tracking, and threat detection • Large antennas for passive RF and radar sensing of deep-space/GEO objects • Software-defined radios for flexible, variable-bandwidth transmissions	• Total raised: ~$18M	

Legend

Radar

Optical Telescopes

RF Monitoring Stations

Major Industry Players in EMEA (3 of 4)

Company	Year Founded	HQ	Company Profile	Key Capabilities	Market Capitalization	SDA Capabilities
Look Up SPACE	2022		Look Up is a French startup delivering advanced space surveillance using ground-based radar, data fusion, and real-time analytics. Founded by ex-CNES and military experts, its SYNAPSE platform enables collision alerts, threat detection, and satellite protection. Serving both government and commercial clients, Look Up Space supports safe and responsible operations in increasingly congested LEO environments.	• Radar Surveillance: Proprietary ground-based radar for LEO object detection and tracking. • SYNAPSE Platform: Secure hybrid SDA system with analytics, threat detection, and decision tools. • Sensor Fusion: Multi-source data aggregation for accurate situational awareness. • AI Decision Support: Algorithms delivering timely alerts and actionable insights for operators and defense users.	• Total raised: $15.4M	
ALDORIA	2017		Aldoria provides precise orbital data and collision avoidance services for satellite operators, defense, and regulators. It operates a global optical sensor network and proprietary software for data fusion, orbit prediction, and risk analysis. Headquartered in Paris, the company supports both commercial and government clients and contributes to European space safety standards.	• Optical Sensor Network: Global ground-based system tracking LEO and GEO objects in real time. • Data Fusion: Combines optical, public, and third-party sources for improved orbital cataloguing. • Policy Support: Supplies data for European SSA frameworks and space sustainability compliance.	• Total raised: $11M	

Legend

Radar

Optical Telescopes

RF Monitoring Stations

Major Industry Players in EMEA (4 of 4)

Company	Year Founded	HQ	Company Profile	Key Capabilities	Market Capitalization	SDA Capabilities
VYOMA	2020		Vyoma is building a hybrid system combining space-based optical sensors and ground-based telescopes for real-time tracking of satellites and debris in LEO. It offers services including collision avoidance, threat assessment, and navigation optimization.	• Hybrid Sensor Network: Combines space-based optical payloads with a growing network of ground-based telescopes for continuous, high-fidelity monitoring of LEO. • AI-Powered Data Processing: Uses machine learning algorithms for trajectory prediction, sensor tasking, and anomaly detection.	• Total raised: $14.7M	
deimos	2001		Deimos operates the Deimos Sky Survey (DeSS) with optical ground sensors for tracking debris and objects in LEO and GEO. Offers full-spectrum SDA services—orbit determination, conjunction analysis, debris tracking, and mission planning. Supports commercial and institutional clients across Europe.	• DeSS) Autonomous ground observatory tracking LEO, MEO, and GEO objects. • Data Fusion & Tasking: Multi-sensor integration and optimized scheduling for maximum coverage. • Institutional Participation: Contributing to ESA SSA and EU SST programs.	• Not disclosed	
	2022		Spaceflux is a UK-based company operating a global network of optical telescopes purpose-built for tracking satellites and space debris. The company has secured SDA contracts with the UK Space Agency and UK Space Command.	• Precision orbit determination • Collision avoidance support • Characterization of objects in space	• Total raised: $7.3M	

Legend

Radar

Optical Telescopes

RF Monitoring Stations

Major Industry Players in APAC (1 of 2)

Company	Year Founded	HQ	Company Profile	Key Capabilities	Market Capitalization	SDA Capabilities
EOS	1983		EOS provides precise tracking and monitoring from LEO to GEO, as well as cislunar regions. Renowned for its advanced capabilities in tracking small, dim, and distant objects. Their taskable sensor network operates 24/7 and integrates with other networks to provide seamless coverage and intelligence delivery.	• EOS services include satellite laser ranging, maneuver detection, and object characterization. • EOS also utilizes data analytics, machine learning, and AI to enhance mission planning and operational assessments.	• Market Cap.: $235M	
SILENTIUM DEFENCE SEE WITHOUT BEING SEEN	2017		Silentium Defence is an Australian company specializing in passive radar technology for Space Domain Awareness (SDA). Their innovative solutions provide covert, real-time tracking of objects in LEO, enhancing space situational awareness and traffic management.	• Passive radar enabling wide-area, covert tracking of LEO satellites and debris. • Facility for cued and un-cued tracking of catalogued and un-catalogued objects. • Containerized radar unit for off-grid, rapid space surveillance. • Real-time tracking during launch and early orbit for conjunction analysis.	• Not disclosed	

Legend

Radar

Optical Telescopes

RF Monitoring Stations

Major Industry Players in APAC (2 of 2)

Company	Year Founded	HQ	Company Profile	Key Capabilities	Market Capitalization	SDA Capabilities
DIGANTARA	2020		Digantara operates a hybrid network of space-based and ground-based sensors, including optical observatories in Ladakh and Uttarakhand, to deliver high-fidelity tracking of objects in LEO and beyond. Its Space-Mission Assurance Platform (Space-MAP) offers real-time space environment monitoring, threat assessment, collision avoidance, and orbital risk analysis.	• Hybrid Sensor Network combining space and ground-based optics for LEO monitoring. • Space-MAP: Real-time tracking, data fusion, and threat analysis via proprietary platform. • AI Processing for anomaly detection, pattern recognition, and improved tracking. • Global Coverage through expanded sensors for continuous surveillance and ephemeris accuracy.	• Total raised: $14.5M	
QUASAR SAT	2021		Developed by former CSIRO scientists and engineers, Quasar is delivering a world-first, fully digital, multibeam phased-array ground station solution for space domain awareness and satellite communications.	• Real-time signal identification, anomaly detection, and behavioral analytics. • Doppler, modulation, and “pattern-of-life” analysis for satellites. • Detection and mitigation of interference, jamming, and spoofing. • All-sky RF monitoring with 360° coverage and no blind spots.	• Total Raised: $7.5M	

Legend

Radar

Optical Telescopes

RF Monitoring Stations

Market Dynamics

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Growth Drivers & Opportunities

The Commercial Ground Based SDA market is set for robust growth, driven primarily by intensifying orbital congestion and debris risks, rising defense imperatives, and tightening regulatory requirements. The growth drivers and opportunities listed below are ordered by their relative impact on SDA market growth, with 1 representing the most important driver.

1. Increasing Space Traffic and Congestion
The surge in mega-constellations and cross-sector space activity is heightening orbital congestion and collision risks, making SDA indispensable. This is driving demand for scalable platforms that deliver continuous monitoring, conjunction alerts, and rapid response.

2. National Security and Defense Imperatives
As space becomes critical to military operations, threats like ASATs, cyber intrusions, and espionage are pushing nations to invest in resilient SDA systems—boosting demand for advanced software, secure networks, and long-term defense contracts.

3. AI/ML and Advanced Analytics Integration
Embedding AI and machine learning in SDA systems is enabling real-time anomaly detection, predictive modeling, and autonomous tasking—key to managing the explosion of space objects. This is driving demand for sophisticated data fusion and analytics platforms across commercial and government missions.

4. Growing Space Debris and Risk of Cascading Collisions
Mounting debris from defunct satellites, rocket stages, and fragmentation events—over 130 million untracked pieces—heightens collision threats. This is fueling investment in SDA systems that deliver debris characterization, risk forecasts, and support for removal missions to protect long-term orbital sustainability..

5. Push for Sovereign SDA Capabilities
To safeguard assets and maintain strategic autonomy, nations are building independent SDA infrastructures. Initiatives like the UK's ISTARI, the EU's SST, and China's PLA SDA networks are expanding market opportunities for local providers of sovereign-grade sensors, secure data platforms, and tailored analytics.

6. Regulatory Compliance and Liability Management
As global space traffic regulations tighten, both governments and commercial operators face mounting pressure to ensure compliance, mitigate liability, and maintain transparency. This is fueling demand for SDA solutions that deliver verifiable, policy-aligned data—unlocking new opportunities for compliance-as-a-service models and cross-border data sharing platforms, which in turn expand the market.

7. Sensor Innovation: RF and Quantum Technologies
Breakthroughs in RF tracking, quantum sensing, and phased-array radar are dramatically enhancing the ability to detect small, stealthy, or maneuvering space objects. By offering capabilities that outperform or augment legacy radar and optical systems, these next-gen sensors are driving adoption of advanced ground-based SDA solutions, especially in challenging or contested orbital environments.

Growth Restraints & Challenges

While the Commercial Ground Based SDA market is poised for growth, several barriers hinder its full development. These obstacles stem from a mix of technological, regulatory, economic, and operational challenges. The challenges listed below are ranked by their relative impact on constraining the SDA market, with #1 representing the most significant barrier.

1. High Costs of Ground-Based Infrastructure
Building and maintaining SDA ground infrastructure—radars, telescopes, antennas, and data platforms—requires substantial capital and operational investment, creating barriers for smaller players and emerging nations. These costs limit network expansion and slow deployment. Solutions include public-private partnerships, modular systems, and cost-effective innovations like LeoLabs' phased-array radar network.

2. Prevalence of free government services
Government-operated networks like the U.S. Space Surveillance Network (SSN) and ESA's SSA programs provide collision alerts and tracking data at no cost, undercutting the value proposition for paid commercial alternatives.

3. Privacy and Cybersecurity Concerns
Security concerns and classified data restrictions limit collaboration and data sharing in SDA. Governments tightly control access, while private providers often hold exclusive contracts—hindering transparency and new market entry. Robust cybersecurity and clear data governance are critical to build trust.

4. Interoperability & Regulatory Challenges
SDA faces hurdles from fragmented systems, limited data sharing, and complex global regulations. Licensing requirements and export controls (e.g. FCC, ITU, ITAR) add compliance burdens, especially for new entrants. Advancing open standards and coordinated policies is essential for effective, scalable SDA operations.

5. Technology Maturity and Reliability
Many emerging SDA technologies still face reliability issues, leading to potential tracking errors and reduced user trust. Ongoing R&D and validation are key to improving performance and enabling broader adoption.

6. Limited Awareness of SDA's Critical Role
Many operators overlook SDA's importance until threats emerge, delaying adoption. Increased education and advocacy are needed to drive proactive investment in space safety and traffic management.

7. Technical Complexity and Expertise Requirements
SDA ground systems demand deep expertise in surveillance, data fusion, and AI/ML. Integrating diverse data sources adds complexity, posing challenges for talent-limited organizations.

8. Infrastructure and Geographical Constraints
SDA ground stations require global coverage, but geographic, weather, and geopolitical factors can hinder reliability and expansion. International partnerships are key to overcoming these constraints.

9. Short-term contracting impedes long-term investment
The tendency of defense agencies and even some commercial operators to issue short, tactical contracts discourages SDA providers from making substantial, multi-year investments in new infrastructure and advanced analytics. Without predictable, long-duration commitments, securing capital for next-generation ground-based SDA capabilities remains a significant hurdle.

Market Size

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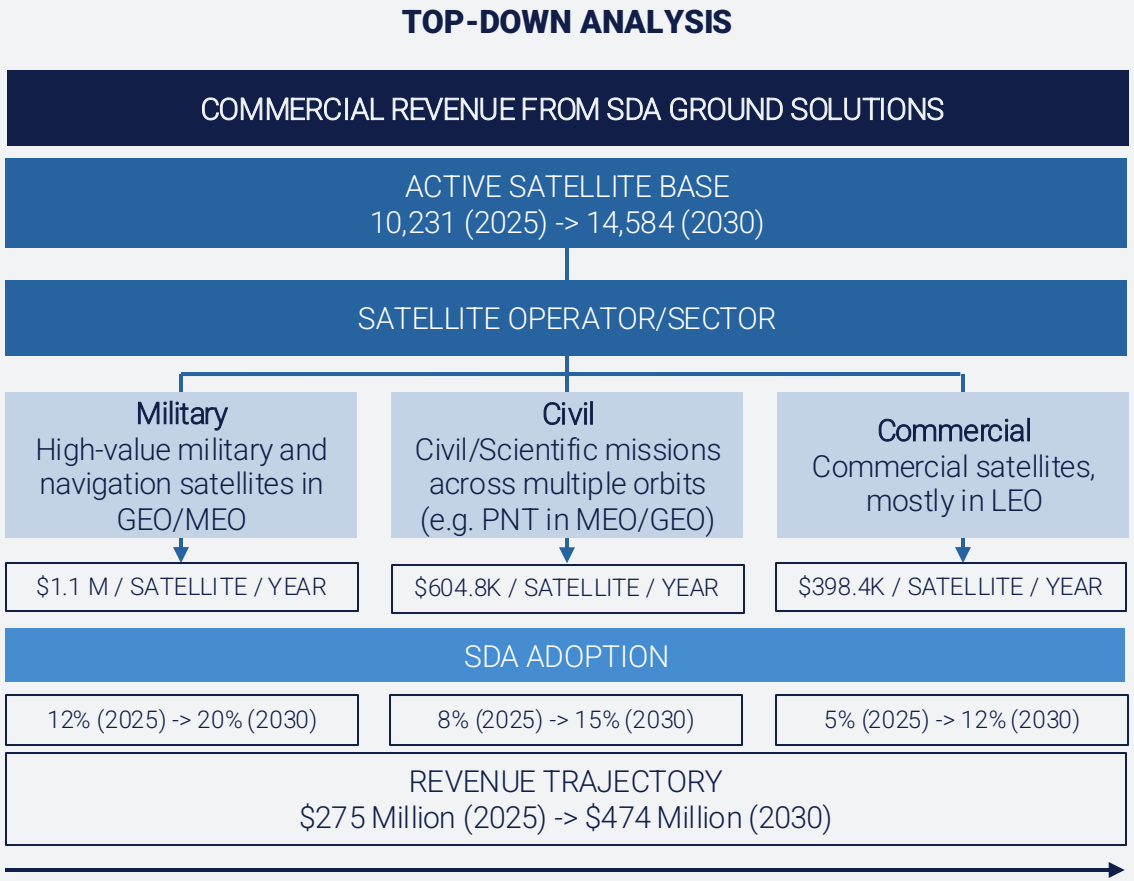
Market Size Methodology – Commercial Ground Based SDA (1/2)



This model provides a structured, data-driven forecast of the commercial Ground Based Space Domain Awareness (SDA) market through 2030, combining satellite population projections, market pricing, adoption rates, and penetration analysis.

Sector Focus: Forecast covers Commercial, Civil, and Military SDA demand, segmented as satellite operators and mission types.

Satellite Growth Baseline: 2024 active satellites (excluding adversarial nations[1]) projected through 2030 using sector- and mission-specific CAGRs; only net new satellites counted (no replacements /decommissions).

Service & Pricing Model: SDA offerings span basic monitoring to advanced analytics, delivered via licenses, subscriptions, or DaaS; prices grouped into Basic/Standard/Premium tiers with tier-specific annual price decay.

Adoption & Penetration: Tiered adoption rates and penetration levels estimated per sector based on market behavior, procurement trends, and existing contracts.

Output: Annual sector-level forecasts of active satellites, Commercial SDA service adoption, blended pricing, and revenue potential through 2030.

1. Includes China, Russia, Iran and North Korea

Market Size Methodology – Commercial Ground Based SDA (2/2)

Definitions of the key variables used in the Market Size Methodology:

Pricing Tiers – For commercial ground-based SDA services, the following pricing tiers were considered in the market sizing:

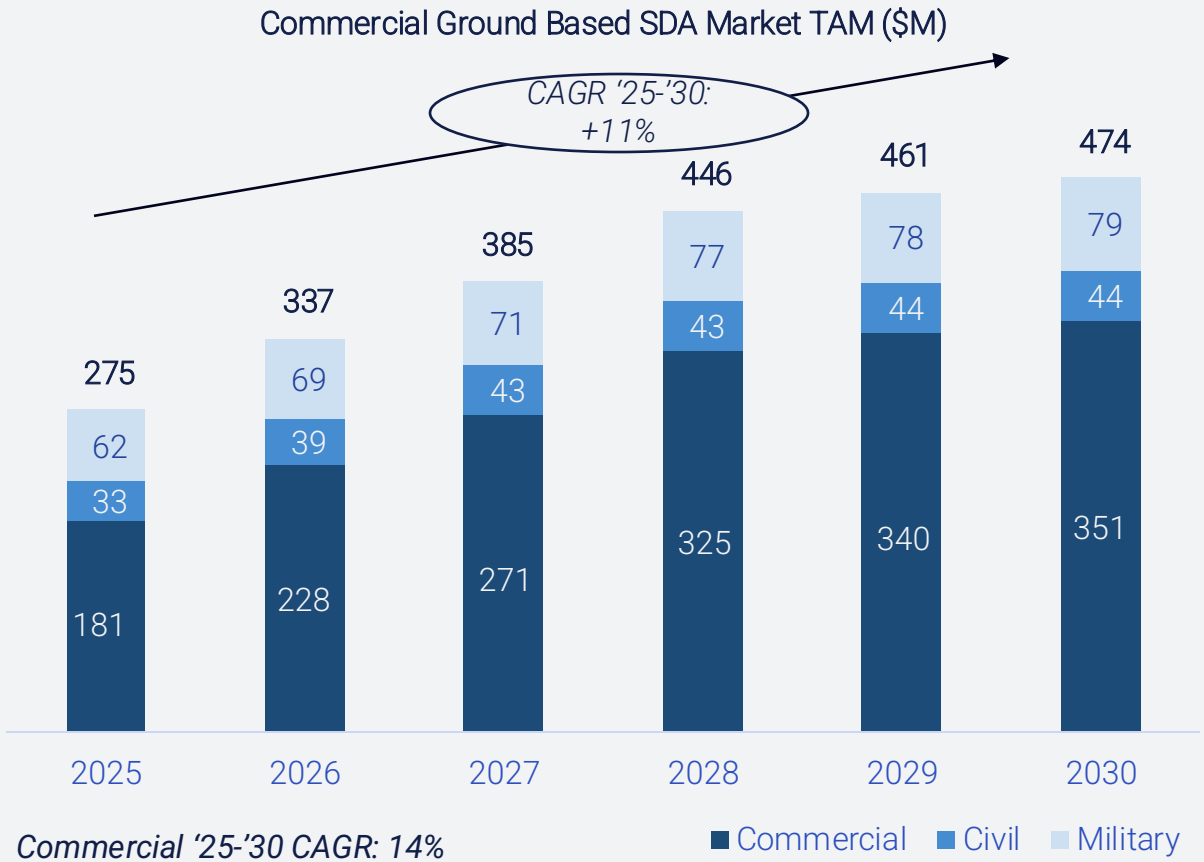
- Basic – Catalog access, Two-Line Element (TLE) alerts, and limited visualization.
- Standard – Automated alerts, dashboards, and maneuver support.
- Premium – Real-time APIs, tasking capabilities, advanced analytics, Space Traffic Management (STM) readiness, and insurance support.

Blended Pricing – Sector-specific pricing per satellite was determined by applying the forecasted adoption mix across the three pricing tiers (Basic, Standard, Premium). This mix was derived from logical assumptions grounded in current sector requirements, operating models, and adoption trends. The blended price for each sector was calculated by applying the percentage split of pricing tiers to the base pricing data.

Penetration Rates – Penetration rates for commercial SDA services across the Commercial, Civil, and Military sectors were estimated using industry insights, contract analysis, and adoption trend data:

- Commercial – Currently lower penetration than other sectors but projected to experience the strongest growth as operators safeguard large constellations.
- Civil – Space agencies (e.g., NASA, ESA, CSA) possess robust internal SDA capabilities but are increasingly sourcing specialized commercial solutions, driven by evolving national and international regulations on orbital safety and data sharing.
- Military – Primary consumer of premium SDA services, with the highest penetration rates among all sectors, expected to remain stable over the forecast period due to persistent national security imperatives.

Global Commercial Ground Based SDA Market TAM 2025-2030



Commercial '25-'30 CAGR: 14%
Civil '25-'30 CAGR: 6%
Military '25-'30 CAGR: 5%

The global Commercial Ground-Based Space Domain Awareness (SDA) market is set for robust expansion, growing from $275 million in 2025 to $474 million by 2030 at an 11% CAGR. Growth is uneven across segments, driven by distinct adoption patterns:

Commercial – Fastest growth (from low penetration rate), driven by mega-constellation and on-orbit servicing operators seeking independent high-precision tracking and predictive analytics. Notable: ExoAnalytic support to CONFERS, multiple CASR pilots (2025) for surge SDA benchmarking, and HEO–Satellogic non-Earth imagery agreement highlighting niche services.

Civil – Accelerating adoption of commercial SDA for STM and debris tracking. Examples: NOAA's TraCSS pilot with ExoAnalytic (GEO data) and Slingshot Aerospace ($5.3M–$13.3M) building persistent monitoring via public–private partnerships.

Military – Expected to show steady growth – mainly attributed to SDA infrastructure modernization for national security, missile warning, and space control. Major U.S. contracts include L3Harris's $187M MOSSAIC (2024), $90M ATLAS follow-on (2025), and KBR's $176M Air Force Maui O&M. Focus areas: integrating commercial sensor data, surge capacity, and Indo-Pacific coverage (e.g., LeoLabs $60M STRATFI radar, 2025).

Underlying Market Momentum: Strong contract momentum reflects rising orbital congestion and debris risks, which are driving global investment in advanced sensors and analytics. National security priorities and sovereign SDA ambitions are expanding procurement across geographies, while tightening regulations and breakthroughs in RF/quantum sensing are accelerating adoption. Together, these forces are reinforcing Commercial Ground Based SDA's position as critical dual-use infrastructure, with growing strategic importance through 2030.

End User Share

The Commercial Ground Based SDA market serves multiple stakeholders across commercial, civil and military sectors.

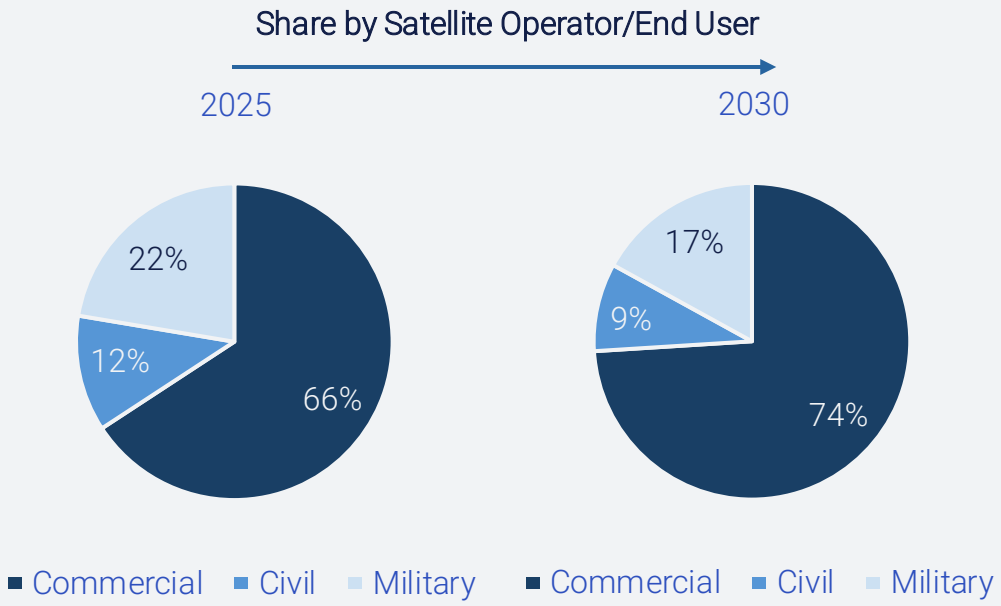
The Commercial Ground-Based SDA market serves a diverse mix of commercial, civil, and military stakeholders, each with distinct growth drivers.

Commercial operators—including mega-constellation owners, launch providers, and in-orbit service firms—are set to grow fastest at a 14% CAGR through 2030, propelled by satellite numbers rising from ~9,000 to over 13,000. This growth is reinforced by targeted contracts such as CASR pilot programs and commercial–commercial partnerships (e.g., HEO–Satellogic for SDA imagery).

Civil agencies, while maintaining strong in-house capabilities, are steadily expanding use of commercial SDA for regulatory compliance and STM readiness—illustrated by NOAA's TraCSS collaborations with ExoAnalytic and Slingshot Aerospace.

Military customers remain the largest spenders, relying on premium-grade SDA for global sensor coverage and rapid response, as reflected in high-value U.S. Air Force contracts with L3Harris, KBR, and LeoLabs.

By 2030, commercial adoption—propelled by mega-constellation growth, tighter STM regulations, and wider access to tailored SDA services—is expected to reach 74% market share, up from 66% in 2025. While civil and military segments will grow more steadily due to program cycles and long-term contracts, commercial operators will drive the bulk of new demand, making them the primary growth engine for the Ground-Based SDA market.



About Us

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About us

- ✓ Resonance **transforms complex information** on rapidly **evolving industries** into **actionable insights.**
- ✓ Powered by a global team of >60 professionals, we unite analysts, engineers, and industry experts to **provide foundational intelligence, strategic advisory and enterprise marketing services to our customers.**
- ✓ We focus on technologies that will **define the next century of innovation**: quantum, space, climate, AI, and digital twins.
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- ✓ Resonance is private equity backed, headquartered in Toronto, Ontario with operations internationally.

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Space Insider Core Team at Resonance

Alex Challans

- CEO of Resonance
- Former board member at Janes Defense – world's leading provider of open-source market intelligence on the Defence industry
- Background in Technology private equity buy-outs (Montagu) and investment banking (J.P. Morgan)
- BSc from Durham University

Robin Sie-Verbruggen

- COO of Resonance and Director of Space Insider
- Former board observer at Wireless Logic - world's largest independent IoT connectivity provider
- Background in Technology private equity buy-outs (Montagu) and investment banking (Lazard & Co)
- MSc degrees from London School of Economics and Erasmus University Rotterdam

Shehroz Sayeed

- Strategy Manager at Space Insider
- Former Global Lead Space Consulting at Frost & Sullivan with background in Aerospace Engineering
- Advised long list of Space companies and governments e.g., UK Space Command (through UK DSC), Northrop Grumman, Telespazio, General Dynamics, NEC
- MEng in Aerospace Engineering from Sheffield University

Dr. Vincent Mifsud OBE

- Senior Technical Adviser at Resonance
- >40 years of experience as an executive in aerospace, security and defence sectors
- Former CTO of Cobham Avionics & Surveillance (£500m division turnover)
- Former Managing Director of QinetiQ Weapons, and Technical Director at Rolls-Royce (Vickers plc)
- PhD in Physics and Engineering from Cambridge

Anup Gholap

- Market Analyst at Space Insider
- Former Market & Competitive Intelligence Consultant at HP and OpenText, advising on M&A, tech roadmaps, and market entry in emerging sectors
- Lead Space Insider Data platform with insights on 10,000+ space entities
- Delivered strategic space projects for government and commercial clients, covering market analysis as well as competitor benchmarking

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End

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