

Satellite-Based Crop Monitoring Services

ANMD-MRS11-106 · AI & Digital Agriculture Technologies

A Global Sustainability Due Diligence & Market Research Study

History 2020–2024 · Base Year 2025 · Forecast 2025–2032 · Outlooks 2035 / 2040 / 2050 · Currency US\$

WHY THIS REPORT

Satellite-based crop monitoring services watch the world's fields from orbit — the NDVI/vegetation-index, multispectral, SAR and hyperspectral analytics, increasingly from daily-revisit constellations, that track crop health, growth and stress at scale. This decision-grade study sizes the global market three ways — value, hectares/acres monitored and subscriptions/API calls — across data type, revisit/resolution tier and application, across seven regions and four scenarios to 2032, with outlooks to 2050.

SUSTAINABILITY & SDG IMPACT — THE ANMD LENS

Sustainability is this report's backbone, not an afterthought. Satellite monitoring underpins food-security intelligence, input efficiency, deforestation and land-use tracking, and climate-resilience planning at scale.

Mapped Sustainable Development Goals:



Measurable sustainability outcomes assessed:

- Food-security intelligence at scale
- Input efficiency and land-use tracking
- Climate-resilience planning
- Data concentration, smallholder inclusion and claim integrity as material risks

Framework alignment: Double materiality mapped to GRI, SASB, ISSB, TCFD, TNFD, CSRD and the EU Taxonomy, with greenwashing and SDG-washing screens applied throughout.

WHAT'S INSIDE AT A GLANCE

53 Chapters	9 Report Parts	7 Regions Covered	40+ Country Markets
2025–32 Forecast Horizon	4 Forward Scenarios	25+ Companies Profiled	5 SDGs Mapped

REPORT COVERAGE

Geographic scope: North America, Europe, Asia Pacific, Latin America, Africa, Middle East and Rest of World — with named country intelligence. North America leads imagery and analytics; Europe holds constellation and SAR strength; emerging providers broaden access; other regions assessed on their own merits.

MARKET OVERVIEW

From periodic snapshots to continuous monitoring — where daily-revisit imagery becomes the backbone data layer.

Satellite monitoring is scaling with constellation density and analytics. Demand is driven by daily-revisit imagery, free Sentinel/Landsat baselines, and the analytics layer that turns pixels into agronomic insight — with SaaS and API delivery central to value. The market is read three ways — value, hectares/acres monitored and subscriptions/API calls — and forecast under four scenarios, each region reported separately.

- **North America leads imagery and analytics** — United States, anchoring imagery and analytics platforms
- **Europe holds constellation and SAR strength** — France and Finland, plus the free Sentinel baseline driving adoption
- **Emerging providers broaden access** — Latin America and Asia, extending affordable monitoring globally
- **Revisit frequency is the differentiator** — daily-revisit constellations and SAR's cloud-penetration turn periodic snapshots into continuous monitoring

REGIONAL OUTLOOK

Across seven reporting regions, the report separates leading markets from high-growth and emerging ones — each profiled in full rather than aggregated into Rest of World.

Region	Stage	Lead Markets & Drivers
North America	Imagery & analytics leader	United States — imagery & analytics platforms
Europe	Constellation & SAR	France, Finland — Sentinel baseline, SAR
Asia Pacific	Scaling access	India, China, Australia — affordable monitoring
Latin America	Emerging	Brazil, Argentina — commodity monitoring
Africa	Frontier	Kenya, South Africa — food-security & land-use
Middle East	Emerging	UAE, Israel — sovereign monitoring & arid-ag

KEY MARKET DRIVERS & RESTRAINTS

Drivers	Restraints
<ul style="list-style-type: none"> • Daily-revisit constellation growth • Free Sentinel/Landsat baselines • Analytics turning imagery into insight • Scalable, wide-area affordability • SaaS / API delivery economics 	<ul style="list-style-type: none"> • Cloud cover & optical limits • Resolution-vs-cost trade-offs • Analytics accuracy & ground-truthing • Data-integration complexity • Willingness-to-pay vs free imagery

SEGMENTATION SNAPSHOT

By Data Type	NDVI / vegetation-index · multispectral · SAR / radar · hyperspectral · daily-revisit constellation
By Revisit / Resolution	Daily revisit · high-resolution · free / open (Sentinel/Landsat)
By Application	Row crops · specialty / horticulture · livestock
By End User	Farmers · agribusiness · co-operatives · agronomists
By Buyer	Producers · agribusiness · insurers · governments
By Business Model	Hardware sales · SaaS subscription · services

TABLE OF CONTENTS — PARTS & CHAPTERS

The full report is organised into nine parts across 53 chapters, listed below. Detailed sub-headings, country tables and directories are provided in the full report.

Part I — Report Foundation, Discovery and Strategic Intelligence

- > Chapter 1. Scope, Methodology and Report Architecture
- > Chapter 2. Industry Discovery Summary — Satellite-Based Crop Monitoring Services
- > Chapter 3. Executive Intelligence and Decision Dashboard
- > Chapter 4. Strategic Findings, Materiality and Investment Verdict Preview

Part II — Market Intelligence, Sizing, Forecasting and Segmentation

- > Chapter 5. Industry Overview and Market Evolution
- > Chapter 6. Market Dynamics
- > Chapter 7. Global Market Size and Forecast, 2020–2032
- > Chapter 8. Market Segmentation Analysis
- > Chapter 9. End-User and Demand-Side Intelligence
- > Chapter 10. Pricing, Cost and Commercial Model Intelligence

Part III — Regional and Country Intelligence

- > Chapter 11. Global Regional Intelligence Framework
- > Chapter 12. North America Market Intelligence
- > Chapter 13. Europe Market Intelligence
- > Chapter 14. Asia Pacific Market Intelligence
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Part IV — Technology, Innovation and Category-Specific Intelligence

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- > Chapter 20. Emerging and Next-Generation Technology Intelligence
- > Chapter 21. Category-Specific Intelligence Module
- > Chapter 22. Research, Innovation and Funding Landscape

Part V — Company, Competition, Patent and Project Intelligence

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- › Chapter 24. Company Profiles
- › Chapter 25. Mergers, Acquisitions, Partnerships and Ecosystem Intelligence
- › Chapter 26. Patent Landscape and Intellectual Property Intelligence
- › Chapter 27. Project, Deployment and Case-Study Intelligence

Part VI — Sustainability, ESG, SDG, Climate and Natural-Capital Intelligence

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Part VIII — Scenario, Future Intelligence and Final Due Diligence Verdict

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- › Chapter 43. Sustainability Due Diligence Framework and Data-Room Index
- › Chapter 44. Risk Register, RAG Rating and Anti-Greenwashing Screen
- › Chapter 45. Bottom-Line Verdict and Strategic Recommendations
- › Chapter 46. Implementation Roadmap and Stakeholder Playbooks

Part IX — Annexes, Directories and Reference Material

- › Chapter 47. Methodology Annex
- › Chapter 48. Corporate Directory and Company Intelligence Annex
- › Chapter 49. Patent Directory and Patent Intelligence Annex
- › Chapter 50. Project Intelligence Annex
- › Chapter 51. Forecast Annex
- › Chapter 52. Sustainability KPI Annex
- › Chapter 53. Reference Annexes

COMPETITIVE & INVESTMENT SNAPSHOT

The competitive field spans satellite operators, imagery analytics firms and agri-platforms. Deal activity — constellation expansion, analytics acquisitions and platform partnerships — signals a market consolidating around imagery-plus-analytics service stacks.

Representative players profiled in the full report:

Planet Labs PBC · Airbus SE (Defence and Space) · Maxar Technologies Inc. · EOS Data Analytics, Inc. · Descartes Labs, Inc. · Satellogic Inc. · ICEYE Oy · and 20+ further profiled players across operators and analytics firms.

Investment intelligence: venture, infrastructure, development, climate and blended finance, green bonds and sustainability-linked loans — culminating in a bankability assessment and a conditional investment view.

KEY QUESTIONS THIS REPORT ANSWERS

- How large is the global satellite crop monitoring market, and how fast will it grow to 2032?
- Which regions, countries and segments offer the strongest risk-adjusted opportunity?
- How does revisit frequency change value versus free imagery baselines?
- Who leads, and where is the competitive and patent white space?
- Is the investment case bankable — and under what conditions?
- How does the category align with the SDGs, food security and data-governance expectations?

WHY ANMD — THE DIFFERENCE

Most market studies stop at units and revenue. This report is built as a sustainability due diligence instrument — fusing market sizing with ESG, SDG, climate, water and natural-capital intelligence and a decision-ready bankability view in a single architecture.

- **Triangulated sizing** — every market read three ways so value, volume and the physical-unit views reconcile rather than conflict.
- **Region-honest forecasting** — Latin America, Africa and the Middle East reported in full, never hidden inside Rest of World, every forecast resolved to the 2025 base year.
- **Integrated evidence base** — company, patent and project databases linked to the analysis, with published-filing patents and FTO treated as an indicator, not a legal conclusion.
- **No-fabrication discipline** — every estimate carries a data-confidence rating and disclosed sources; gaps are flagged for further diligence, never filled with invented numbers.
- **Anti-greenwashing rigour** — SDG-washing and greenwashing screens plus claim-substantiation checks built into the ESG and project analysis.
- **Decision-first structure** — 9 Parts and 53 Chapters culminating in stakeholder playbooks and a clear, conditional investment view.

WHO SHOULD BUY THIS REPORT

Investors, growers, agribusiness, co-operatives, OEMs, retailers, lenders and policymakers, and strategic corporate planners and decision-makers.

Access the Full Report

The complete report delivers all 53 chapters in full, with every sub-heading, country table, company and patent directory, forecast model and due diligence checklist.

Purchase at www.anewmarketdynamics.com · Standard & Premium licences · Single-Site (SSL) and Global-Site (GSL) options at checkout.

Want the Complete Detailed Table of Contents?

This prospectus lists the nine parts and 53 chapters. The complete detailed table of contents — every sub-heading, country table, exhibit, company and patent directory and annex — is available on request to registered users. To receive it, register with your official company email at www.anewmarketdynamics.com. The full detailed table of contents will be sent directly to your registered company email address.