

# Species Identification Camera Trap Networks

## ANMD-MRS18-180 · Environmental AI Applications

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

Species identification camera trap networks monitor wildlife automatically — combining camera hardware, edge AI, connectivity and species-recognition models with real-time alerting. They transform conservation from manual photo review to automated, networked biodiversity intelligence and anti-poaching response. This decision-grade study sizes the global market three ways — value, devices deployed and detections delivered — across system component, use case 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. Camera-trap networks protect wildlife and biodiversity and enable measurement, while raising data-sovereignty, privacy and access-equity questions.

#### Mapped Sustainable Development Goals:

<b>SDG 15</b> Life on Land	<b>SDG 14</b> Life Below Water	<b>SDG 13</b> Climate Action
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#### Measurable sustainability outcomes assessed:

- Scalable wildlife monitoring and real-time poaching alerts
- Research-grade data and TNFD-aligned biodiversity MRV
- Data-sovereignty and community benefit as a material risk
- Human-privacy in imagery and device circularity assessed

**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

<b>53</b> Chapters	<b>9</b> Report Parts	<b>7</b> Regions Covered	<b>40+</b> Country Markets
<b>2025–32</b> Forecast Horizon	<b>4</b> Forward Scenarios	<b>25+</b> Companies Profiled	<b>3</b> 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 technology; Africa is the deployment frontier; Europe scales on disclosure; other regions assessed on their own merits.

- Automated, networked wildlife monitoring and anti-poaching
- Camera hardware, edge AI, connectivity and species-ID models
- Real-time alerting and TNFD-aligned biodiversity MRV
- Data-sovereignty, privacy and device circularity as material risks

## MARKET OVERVIEW

**From offline photo review to live wildlife intelligence — where on-device species AI turns passive traps into real-time monitoring tools.**

Camera trap networks are moving from offline photo collection to connected, edge-AI, real-time wildlife intelligence. Demand is driven by conservation funding, anti-poaching needs and biodiversity disclosure across North America, Europe and Africa. The market is read three ways — value, devices deployed and detections delivered — and forecast under four scenarios, each region reported separately.

- **North America leads technology** — the United States and Canada, supported by conservation-tech developers, edge-AI camera platforms and research and protected-area adoption
- **Africa is the deployment frontier** — Kenya, South Africa and Tanzania, where anti-poaching and protected-area monitoring drive networked, alerting camera-trap systems
- **Real-time edge AI is the differentiator** — on-device species recognition with connectivity turns passive traps into live monitoring and anti-poaching tools
- **System component segments the value** — camera hardware, edge AI, connectivity and species-ID designs, each with distinct economics

## 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 Country Markets & Drivers
North America	Technology leader	United States, Canada — regulation, funding, tech-vendor base
Africa	Deployment frontier	Kenya, South Africa, Tanzania — anti-poaching, protected areas
Europe	Disclosure-led	Germany, France, UK, Netherlands — environmental rules, CSRD, climate funding
Asia Pacific	High-growth	India, Indonesia — tiger and wildlife monitoring
Latin America	Biodiversity hub	Brazil, Costa Rica — rainforest biodiversity monitoring
Middle East	Emerging	Saudi Arabia, UAE — environmental strategy, sovereign investment

## KEY MARKET DRIVERS & RESTRAINTS

Drivers	Restraints
<ul style="list-style-type: none"> <li>• Conservation &amp; biodiversity funding</li> <li>• Anti-poaching &amp; protected-area security</li> <li>• TNFD &amp; biodiversity-MRV demand</li> <li>• Edge-AI &amp; connectivity advances</li> <li>• Research &amp; population-monitoring needs</li> </ul>	<ul style="list-style-type: none"> <li>• Connectivity &amp; power in remote areas</li> <li>• Species-ID accuracy &amp; rare-species data</li> <li>• Device cost &amp; deployment scale</li> <li>• Data-management &amp; false-trigger burden</li> <li>• Funding &amp; conservation business models</li> </ul>

## SEGMENTATION SNAPSHOT

<b>By System Component</b>	Camera hardware · edge AI · connectivity · species-ID · alerting
<b>By Use Case</b>	Biodiversity monitoring · anti-poaching · research · TNFD MRV
<b>By Application</b>	Biodiversity monitoring · anti-poaching · research · TNFD MRV
<b>By End User</b>	Conservation NGOs · protected areas · researchers · corporates
<b>By Business Model</b>	Hardware sale · SaaS · data · managed service
<b>By Scale</b>	Pilot · deployment · enterprise / national-scale

## TECHNOLOGY & APPLICATION FINDINGS

Where the category is differentiating fastest — the technology and application fronts that separate leaders from followers:

- **Biodiversity monitoring** — edge-AI camera networks deliver automated species and population data
- **Anti-poaching** — real-time alerting cameras detect intrusions and support rapid response
- **Research & TNFD MRV** — networked camera data supports research and corporate biodiversity reporting

## 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.

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- › Chapter 3. Executive Intelligence and Decision Dashboard
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## Part V — Company, Competition, Patent and Project Intelligence

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## COMPETITIVE & INVESTMENT SNAPSHOT

The competitive field spans AI-platform and conservation-tech players, edge-AI anti-poaching specialists, and camera-hardware providers. Deal activity — protected-area deployments, edge-AI partnerships and conservation funding — signals a market forming around connected, real-time wildlife intelligence.

### Representative players profiled in the full report:

Wildlife Insights (Google LLC) · TrailGuard AI (RESOLVE) · Conservation X Labs · Smart Parks · Reconyx, Inc. · and 20+ further profiled players.

**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 camera trap network market, and how fast will it grow to 2032?
- Which regions, countries and segments offer the strongest risk-adjusted opportunity?
- Which technologies and methods reshape the addressable market and the cost curve?
- 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 and disclosure regulation?

## 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 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

Conservation NGOs, protected areas, researchers, corporates, investors 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](http://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](http://www.anewmarketdynamics.com). The full detailed table of contents will be sent directly to your registered company email address.