

AI in Wildlife Conservation Monitoring Market By Technology Type (Machine Learning, Computer Vision, Natural Language Processing, Data Analytics & Predictive Modeling, Robotics & Drones) , By Scale of Implantation (Local or Regional Initiatives, National Conservation Programs, International Collaborations and Partnerships) By Application (Wildlife Monitoring and Tracking, Habitat Protection and Restoration, Anti-poaching Measures, Wildlife Disease Detection and Management, Conservation Policy and Planning) By End User (Government Agencies & NGOs, Wildlife Reserves & National Parks, Research Institutions & Universities, Conservation-focused Companies and Startups) : Global Opportunity Analysis and Industry Forecast, 2024-2032

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Abstracts

AI in Wildlife Conservation Monitoring Market

The AI in wildlife conservation monitoring market was valued at \$1.8 billion in 2023 and is projected to reach \$16.5 billion by 2032, growing at a CAGR of 28.4% from 2024 to 2032.

AI in wildlife conservation monitoring involves the usage of advanced technologies such

as deep learning and machine learning to enhance the efficacy of biodiversity protection. Different aspects of AI such as real-time monitoring, data collection, and predictive analytics aid in making well-informed decisions for biodiversity protection by addressing challenges such as human activity, climate change, and habitat destruction.

Exponential surge in the extinction rates of species has fueled the need for innovative wildlife conservation strategies, thereby propelling the growth of the AI in wildlife conservation monitoring market. This is attributed to the ability of AI to scale conservation efforts by collecting large amounts of data. In addition, increase in illegal activities and poaching attempts has boosted the requirement for real-time monitoring of wildlife, which augments the market development significantly. An emerging trend gaining prominence in the market is the incorporation of the public in wildlife conservation efforts. Through AI-powered mobile applications, citizens are able to participate in such initiatives by identifying species and reporting sightings to researchers. This crowdsourcing of data is projected to boost wildlife conservation efforts notably.

However, ethical considerations such as data privacy and algorithmic bias deter several conservation organizations from utilizing AI, which hampers the development of the market. Furthermore, the installation of AI-associated technologies requires significant capital, which slows down the adoption in underserved areas and restrains the market growth. On the contrary, the usage of blockchain technology along with AI for wildlife conservation is poised to present new avenues for the market. The immutable ledger of blockchain technology facilitates transparent collaboration among various stakeholders associated with wildlife conservation. According to Crypto Altruism—a content platform that intersects blockchain and social & environmental impact—the planet is currently in the middle of the sixth mass extinction event in history, in which blockchain exhibits the potential to transform wildlife conservation efforts through its secure and accountable system.

Segment Review

The AI in wildlife conservation monitoring market is segmented into technology type, scale of implantation, application, end user, and region. On the basis of technology type, the market is divided into machine learning, computer vision, natural language processing, data analytics & predictive modeling, and robotics & drones. Depending on scale of implantation, it is classified into local or regional initiatives, national conservation programs, and international collaborations & partnerships. As per application, it is categorized into wildlife monitoring & tracking, habitat protection &

restoration, anti-poaching measures, wildlife disease detection & management, and conservation policy & planning. According to end user, it is segregated into government agencies & NGOs, wildlife reserves & national parks, research institutions & universities, and conservation-focused companies & startups. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Key Findings

On the basis of technology type, the machine learning segment held a significant share of the market in 2023.

Depending on scale of implantation, the national conservation programs segment dominated the market in 2023.

As per application, the wildlife monitoring & tracking segment accounted for the highest market share in 2023.

According to end user, the government agencies & NGOs segment acquired a notable stake in the market in 2023.

Region wise, North America was the highest revenue generator in 2023.

Competition Analysis

The major players in the global AI in wildlife conservation monitoring market include Conservation Metrics Inc., Enview Inc., Google LLC, IBM Corporation, Intel Corporation, Leonardo, DiCaprio Foundation, Microsoft Corporation, NVIDIA Corporation, Reservoir Labs Inc., and Wildlife Conservation Society. These major players have adopted various key development strategies such as business expansion, new product launches, and partnerships to strengthen their foothold in the competitive market.

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End user preferences and pain points

Industry life cycle assessment, by region

Product Benchmarking / Product specification and applications

Product Life Cycles

Scenario Analysis & Growth Trend Comparison

Technology Trend Analysis

Go To Market Strategy

Market share analysis of players by products/segments

New Product Development/ Product Matrix of Key Players

Pain Point Analysis

Strategic Recommendations

Additional company profiles with specific to client's interest

Additional country or region analysis- market size and forecast

Brands Share Analysis

Criss-cross segment analysis- market size and forecast

Expanded list for Company Profiles

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Market share analysis of players at global/region/country level

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By Region

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U.S.

Canada

Europe

France

Germany

Italy

Spain

UK

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Australia

Rest of Asia-Pacific

LAMEA

Latin America

Middle East

Africa

By Technology Type

Machine Learning

Computer Vision

Natural Language Processing

Data Analytics Predictive Modeling

Robotics Drones

By Scale Of Implantation

Local or Regional Initiatives

National Conservation Programs

International Collaborations and Partnerships

By Application

Wildlife Monitoring and Tracking

Habitat Protection and Restoration

Anti-poaching Measures

Wildlife Disease Detection and Management

Conservation Policy and Planning

By End User

Government Agencies NGOs

Wildlife Reserves National Parks

Research Institutions Universities

Conservation-focused Companies and Startups

Key Market Players

Conservation Metrics Inc.

Enview Inc

Google LLC

IBM Corporation

Intel Corporation

Leonardo

DiCaprio Foundation

Microsoft Corporation

NVIDIA Corporation

Reservoir Labs Inc.

Wildlife Conservation Society

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