

Artificial Intelligence (AI) in Precision Livestock Farming Market Outlook | Projected to Hit \$19.87 Billion by 2032

The AI in precision livestock market in the US and Japan grows rapidly, driven by smart farm adoption, animal health monitoring, and efficiency gains

TOKYO, OSAKA, JAPAN, September 16, 2025 /EINPresswire.com/ -- Market Overview

The AI in precision livestock market is expanding rapidly as farms adopt smart solutions to manage large herds more effectively. From small-scale dairy farms to industrial poultry operations, AI applications are becoming integral in monitoring feed intake, health metrics, reproduction cycles, and environmental conditions.

Commercial interest is fueled by several factors: rising consumer demand for traceable and safe animal products, stricter government regulations, labor shortages in agriculture, and the need to

reduce greenhouse gas emissions and resource consumption. Farms using AI-driven systems can achieve higher productivity, better animal welfare, and lower operational costs compared to traditional methods.



AI in Precision Livestock Farming Market set to grow from \$2.23B in 2024 to \$19.87B by 2032, driven by US and Japan."

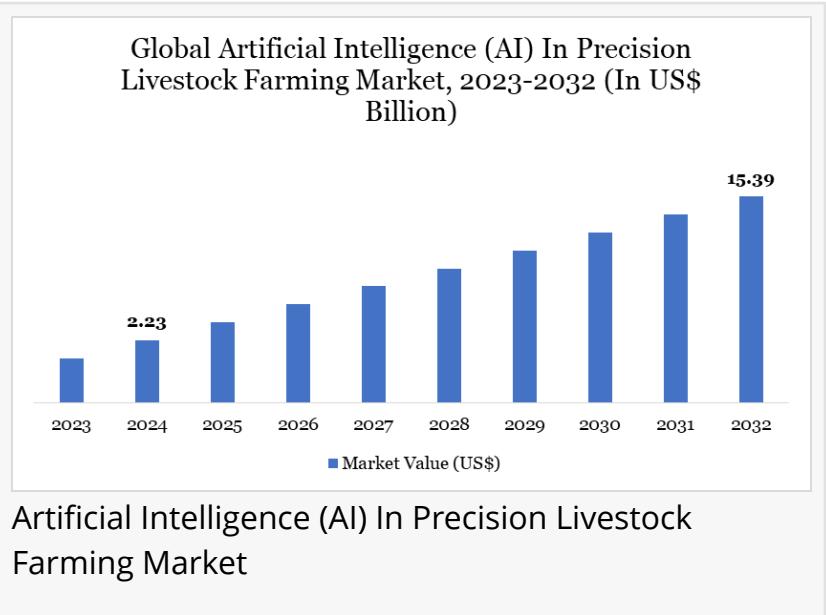
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Market Size and Forecast

The global [AI in precision livestock farming industry](#) was valued at US\$ 2.23 billion in 2024 and is projected to grow to US\$ 19.87 billion by 2032, expanding at a CAGR of

15.39% between 2025 and 2032.

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Technical Drivers

The technical backbone of AI in PLF includes a combination of hardware, software, and analytics:

IoT Sensors: Devices attached to animals or installed in barns track real-time data on activity, feeding, temperature, and vital signs.

Computer Vision Systems: Cameras and image recognition algorithms monitor animal behavior, detect anomalies, and identify signs of illness early.

Predictive Analytics: AI algorithms analyze historical and real-time data to forecast disease outbreaks, optimize feed efficiency, and improve reproduction management.

Robotics and Automation: Automated feeding, milking, and cleaning systems reduce labor intensity while maintaining consistent operations.

Integration Platforms: Cloud-based dashboards consolidate data from multiple sensors, enabling actionable insights and remote farm management.

These technologies help farmers detect health issues early, improve breeding outcomes, reduce medication use, and maximize feed efficiency leading to significant cost savings and higher output.

Businesses operating in this sector include AI solution providers, sensor manufacturers, robotics companies, and farm management software developers. Strategic partnerships with farmers, cooperatives, and research institutions accelerate technology adoption and ROI.

Key Players

1. Connecterra
2. Cainthus
3. Vence
4. DeLaval
5. Afimilk Ltd.
6. BouMatic
7. Allflex Livestock Intelligence (MSD Animal Health)
8. Quantified Ag
9. Cargill, Incorporated
10. GEA Group

11. Moocall

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Regional Trends

. North America leads in AI-driven precision livestock farming, supported by robust tech infrastructure and agri-tech investments.

. In 2024, Precision Livestock Technologies launched an AI system to predict cattle feed intake and provide recommendations, highlighting North America's tech leadership and funding access.

. North America: The US and Canada lead with high-tech farms adopting AI for herd management, regulatory compliance, and operational efficiency.

. Europe: Driven by sustainability regulations and welfare standards, European farms are investing in AI to enhance productivity while reducing environmental impact.

. Asia-Pacific: Countries like China, Japan, and Australia are rapidly adopting AI in livestock, with government incentives and large-scale commercial operations boosting growth.

Challenges

1. Despite the promise, AI in PLF faces several challenges:

2. High Initial Costs: Implementation of AI systems, sensors, and robotics requires significant capital investment.

3. Data Management: Collecting, storing, and analyzing vast amounts of data demands robust infrastructure and cybersecurity measures.

4. Skill Gaps: Farmers need training to interpret AI insights and integrate technology into daily operations.

5. Integration with Existing Systems: Retrofitting AI into traditional farms or older equipment can be complex and costly.

Commercial Opportunities

. Improved Productivity: Farms can increase yield per animal and reduce feed wastage, directly

impacting profitability.

. Health & Welfare Optimization: AI helps identify diseases early, minimize mortality, and improve animal welfare—key for premium markets.

. Environmental Sustainability: Optimized feeding and waste management reduce methane emissions, water usage, and nutrient runoff.

. Traceability & Consumer Trust: AI facilitates precise record-keeping, supporting claims of humane treatment, organic practices, and food safety certifications.

Market Segmentation

By Component: (Hardware, Software, Services)

By Deployment Mode: (Cloud-Based, On-Premise)

By Livestock Type: (Cattle, Poultry, Swine, Sheep & Goats, Others)

By Application: (Feeding Management, Milk Harvesting & Monitoring, Reproduction Management, Animal Health Monitoring & Disease Detection, Livestock Behavior & Welfare Monitoring, Supply Chain & Farm Management, Others)

By Region: (North America, Latin America, Europe, Asia Pacific, Middle East, and Africa)

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DataM Recommendations

1. DataM Intelligence suggests the following strategies for stakeholders:

2. Invest in Scalable Solutions: Choose modular AI platforms that grow with herd size and operational complexity.

3. Focus on Training & Support: Equip farm operators with skills to interpret AI insights and maintain systems.

4. Integrate Health and Nutrition Monitoring: Combining health and feed data provides a holistic view to optimize productivity.

5. Leverage Partnerships: Collaborate with technology providers, research institutions, and cooperatives for faster adoption and innovation.

6. Sustainability Focus: Highlight reduced environmental impact and welfare improvements to meet regulatory and market expectations.

7. Data Security & Management: Ensure secure cloud platforms and reliable data handling to build trust and compliance.

Conclusion

Artificial Intelligence in precision livestock farming represents a transformative shift from traditional animal husbandry to data-driven, highly efficient operations. By optimizing health, feed, reproduction, and environmental conditions, AI enables farmers to increase productivity, reduce costs, and improve animal welfare simultaneously.

The market offers significant opportunities for technology providers, farm operators, and investors willing to embrace innovation. DataM Intelligence emphasizes that early adoption of scalable, integrated AI solutions, combined with proper training and sustainability initiatives, positions stakeholders to lead in this rapidly expanding sector.

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