Club Founder
Dr. Mahmoud Bahgat

International

Veterinary Club

Sharpen your skills

Co-Founder & Host:
Dr. Mahmoud Samy

Animal Health Market

سوق صحة الحيوان

Online zoom

7 pm Egy - 8 pm KSA - 9 pm UAE

Dr. Mahmoud Samy

Marketing Manager

AGENDA

1. Introduction
2. About International Veterinary Club (Objective , Vision & Mission)
3. Role of Veterinarians
4. Cattle Market In Numbers
5. Poultry Market In Numbers
6. TOP 10 Veterinary Industry Trends
7. TOP Players in AH Market

Mahmoud Samy

Marketing & Technical Director

Veterinary medicine _ Cairo University

I Have a 17 Y of experience in Both Human & Animal Health Sector

DELTA PHARMA

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MNB

COVIDIEN

ATCO PHARMA Quality We Care

EVA PHARMA ANIMAL HEALTH

FLARE PHARMA GROUP

My current position is Member of the Board of Director at

During my Career in Animal Health, I led a lot of Animal Health strategic projects and Launching many companies in the Market (Framelco Netherlands , Agrana Austria) Beside the Range of Anticoccidial Products in the Egyptian Market with Market Share of 50% of the whole products in the Market Beside Launching the Animal Health sector in one of the top National Company in the Egyptian Market (EVA Pharma) From the scratch.

About The IVC

About IVC

The International Veterinary Club is a Global Community for veterinarians. We connect professionals, facilitate knowledge sharing, and foster professional growth through online forums, webinars, and more…

Our Vision

To be the global cornerstone of veterinary excellence, empowering a connected community of professionals to advance animal health and welfare through knowledge sharing, collaboration, and innovation.

Our Mission

To foster a dynamic and inclusive online platform that connects veterinarians worldwide, facilitates the seamless exchange of knowledge and best practices, and empowers members to achieve professional and personal growth.

IVC Activities

1. Online forums for knowledge sharing and case discussions
2. Webinars and workshops featuring renowned veterinarians
3. Continuing education courses and certifications
4. Mentorship programs connecting experienced and aspiring veterinarians
5. Networking events and social gatherings
6. Job boards and career resources
7. Advocacy for animal welfare and ethical veterinary practices

IVC Activities

Co-Founder & Host:
Dr.Mahmoud Samy
0020100 704 1756

International
Veterinary Club
Sharpen your skills

Club Founder
Dr. Mahmoud Bahgat
KSA 00966568654916
Egy 00201094932932

Monthly Meeting on zoom

Every 4th Wednesday | 7 pm Egy | 8 pm KSA | 9 pm UAE

Wednesday 7pm 25/12/2024

Vetrinary Business Basics
Dr. Mahmoud Samy
Veterinary Expert

Wednesday 7pm 22/1/2024

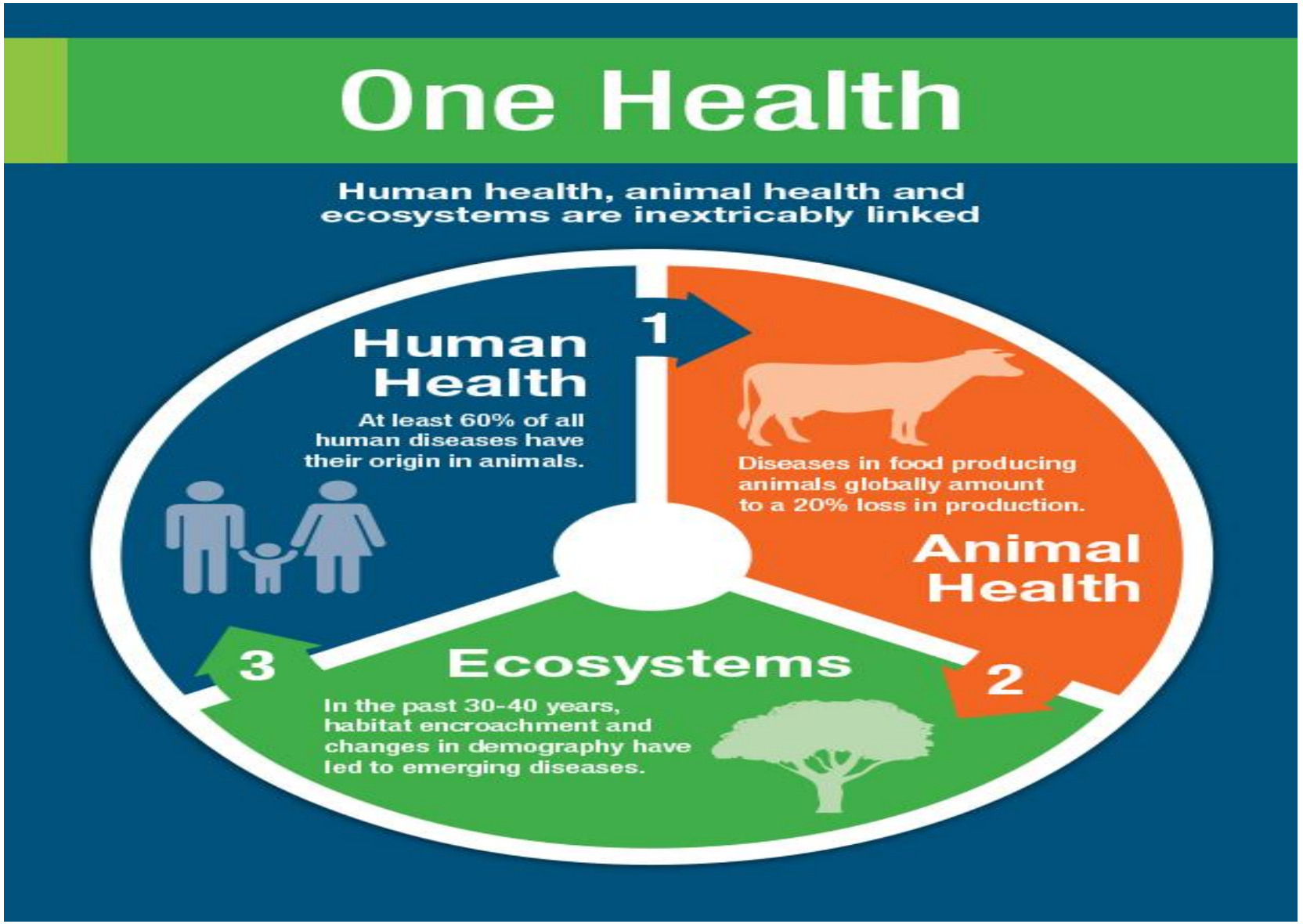
Vet Clinics Business (Q&A)
Dr.Ahmed Elnabrawy
Veterinary Expert

Wednesday 7pm 26/2/2025

Veterinary Market Trends
Dr.Osama Shedeed
Veterinary Expert in Saudi Market

Join Zoom Meeting :https://zoom.us/j/95490223798?pwd=WUILdDEvTEdTTU1TQjI6T2FMc3d4UT09
Meeting ID: 3798 9022 954 Passcode: 127875
#IVC #InternationsI_Veterinary_Club #Veterinary_Club #Veterinary

Using a One Health Approach to Protect Health for All

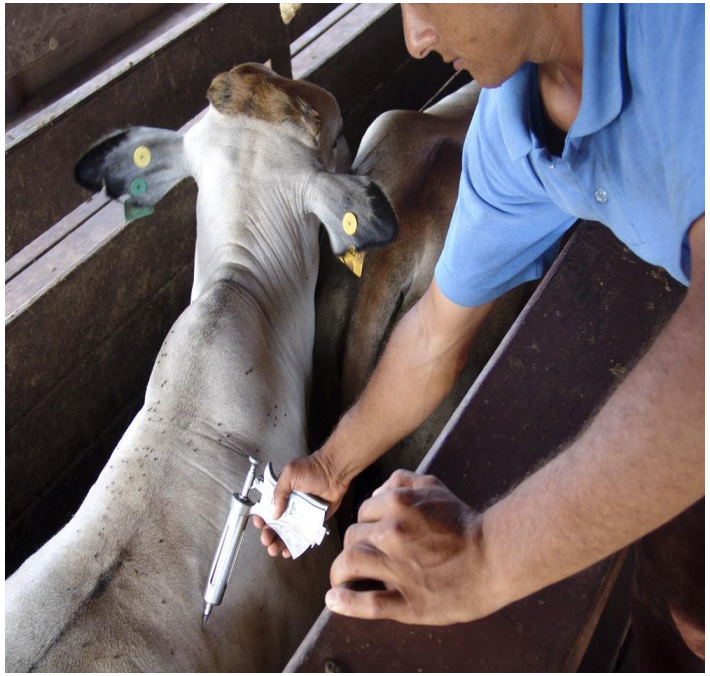


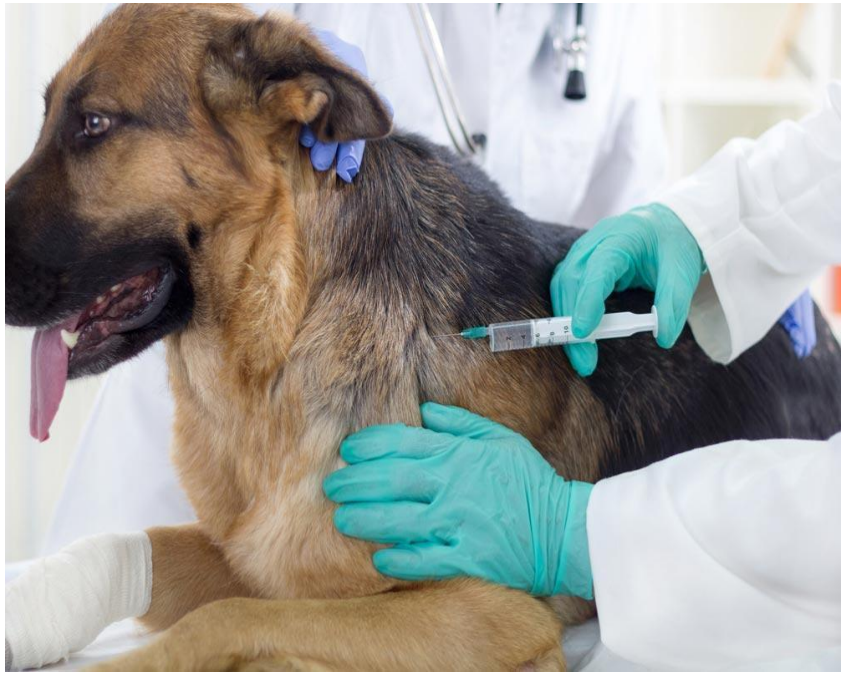
CDC – Centers for Disease Control and Prevention

Role of Veterinarians

Introduction: Veterinarians are medical professionals who specialize in the diagnosis, treatment, and prevention of diseases and injuries in animals. - Their role is not limited to animal health but also extends to the impact of animal health on human health.

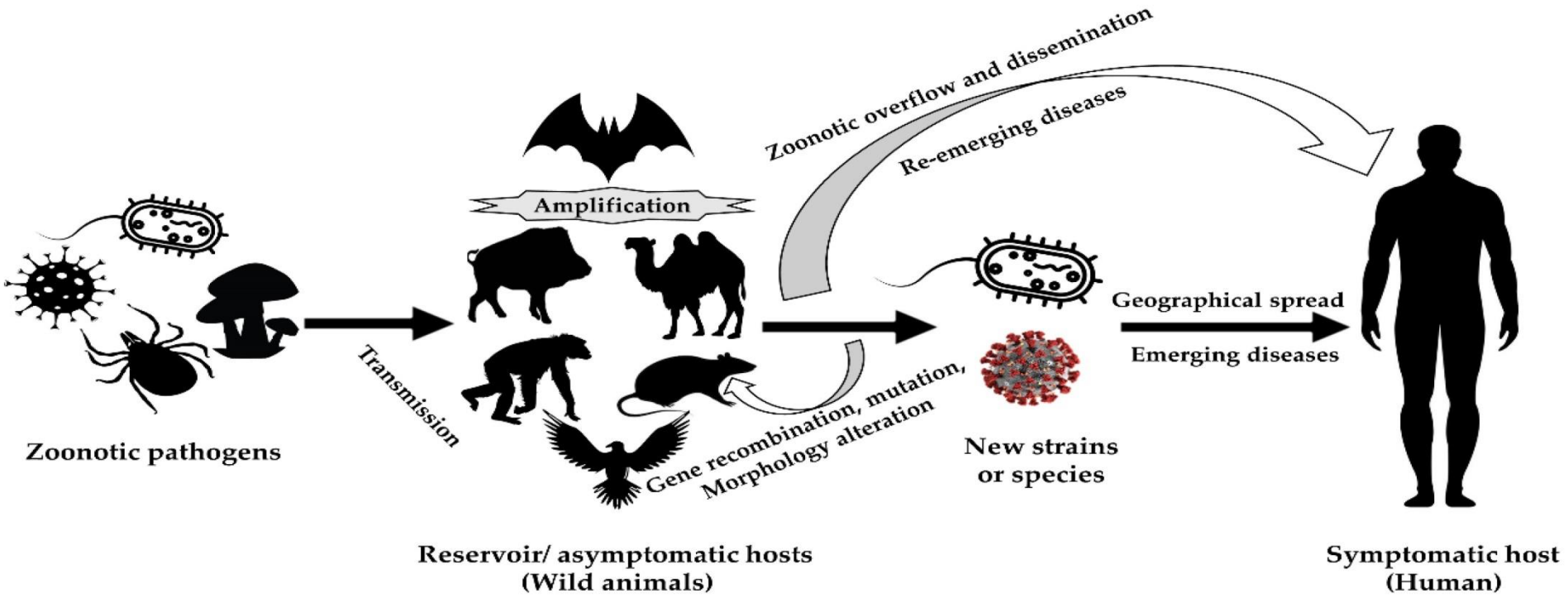
Role of Veterinarians





Animal Health: One of the primary roles of veterinarians is to promote animal health and welfare.- They provide routine checkups and vaccinations to prevent illnesses and diseases.- They also diagnose and treat illnesses and injuries in animals, from minor ailments to life-threatening conditions.

Role of Veterinarians



Public Health- Veterinarians play a critical role in protecting public health.- They monitor and control the spread of zoonotic diseases, which are diseases that can be transmitted from animals to humans.- They also ensure that animals used for food production are healthy and free from diseases that could harm human health.

Role of Veterinarians

Public Health- Veterinarians play a critical role in inspecting Milk and Meat Products which reflect directly on human Health

Role Of Veterinarians

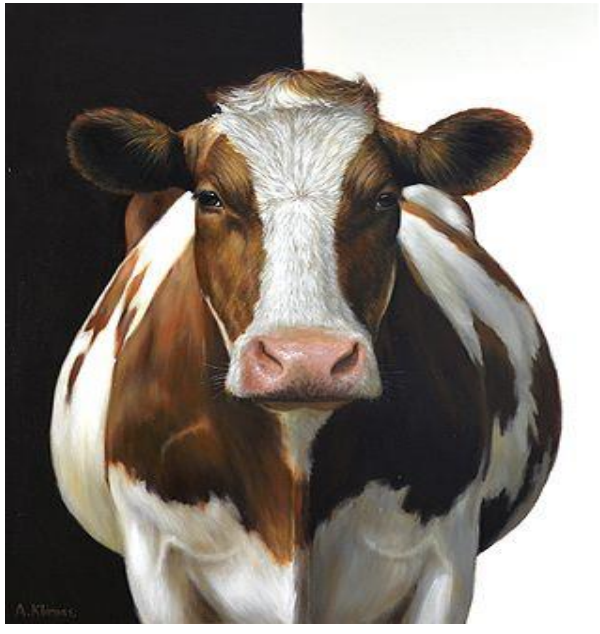
Research- Veterinarians are involved in research to improve animal health and welfare.- They work to develop new treatments and vaccines for animal diseases.- They also study the impact of animal health on human health and the environment.

Role Of Veterinarians

Education- Veterinarians are educators, providing information and advice to animal owners and the public.- They educate pet owners on proper nutrition, exercise, and care for their animals.- They also provide information to the public on zoonotic diseases and how to prevent them.

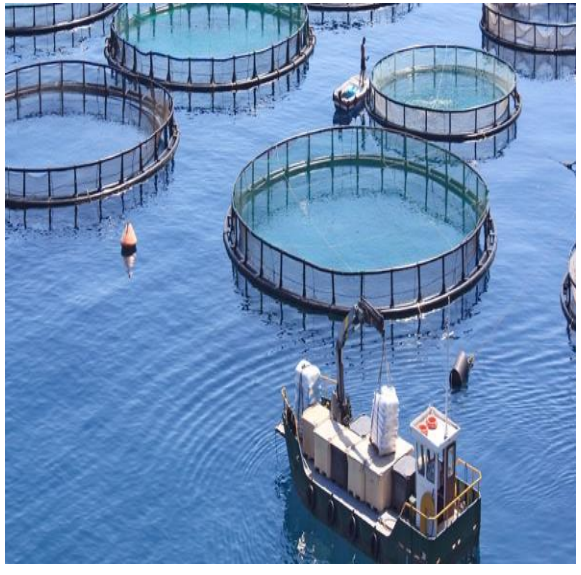
Animal Health / Market Sectors

Poultry

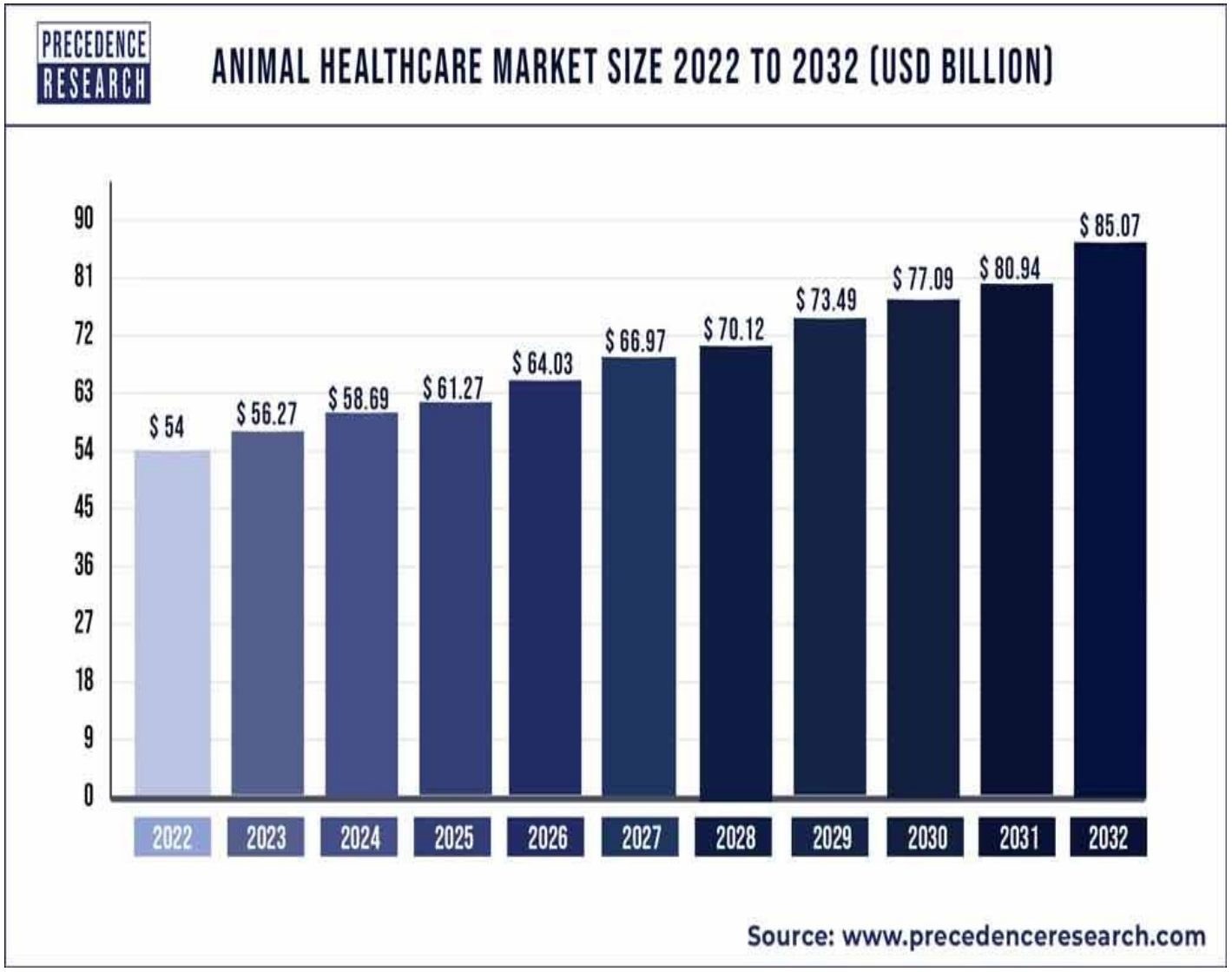


Livestock

Companion Animals



Aquaculture/Marine



•Market Size:

- In 2023, the global animal health market size was estimated to be around **USD 62.4 billion**.
- It is projected to reach **USD 66.9 billion in 2024**.
- By 2030, it is expected to reach **USD 112.3 billion**.

•Growth Rate:

- The market is expected to grow at a Compound Annual Growth Rate (CAGR) of **9.0%** from 2024 to 2030.

Key Livestock Species

Cattle: Beef and dairy cattle are major components of the livestock market.

Swine: Pork is a significant source of protein globally.

Poultry: Chicken and other poultry species are widely consumed and produced.

Sheep and Goats: Important sources of meat, milk, and fiber (wool).

Major Players

Producers: Farmers, ranchers, and agricultural cooperatives.

Processors: Meat processing plants, slaughterhouses, and dairy processors.

Feed Manufacturers: Companies producing animal feed ingredients and complete feeds.

Input Suppliers: Providers of veterinary services, pharmaceuticals, and other inputs.

Retailers and Distributors: Supermarkets, grocery stores, and foodservice distributors.

Key Market Segments

Meat Production: Beef, pork, poultry, lamb, mutton.

Dairy Production: Milk, cheese, yogurt, butter.

Livestock Feed: Grains, protein sources, vitamins, minerals.

Veterinary Services: Animal healthcare, pharmaceuticals, diagnostics.

Livestock Genetics: Breeding stock, artificial insemination.

Global Production and Consumption

Asia: A major producer and consumer of livestock products, with China and India being key players.

North America: A significant producer and consumer of beef, pork, and poultry.

South America: A major producer of beef and poultry, with Brazil being a leading exporter.

Europe: Focus on high-quality meat and dairy products, with a strong emphasis on animal welfare and sustainability.

Africa: Growing livestock production, driven by increasing demand for protein.

Key Trends

Growing demand for protein: Global population growth and rising incomes are driving increased demand for meat and dairy products.

Sustainability: Growing focus on sustainable livestock production practices, including reduced environmental impact, improved animal welfare, and antibiotic stewardship.

Technological advancements: Precision agriculture, biotechnology, and digital technologies are transforming livestock production.

Consumer preferences: Changing consumer preferences, such as demand for organic and locally sourced products, are influencing the market.

Global trade: International trade in livestock and livestock products plays a significant role in global food security.

Challenges

Disease outbreaks: Animal diseases can have a significant impact on production and trade.

Climate change: Climate change poses challenges to livestock production, such as heat stress and changes in feed availability.

Environmental concerns: Livestock production can contribute to environmental issues like greenhouse gas emissions and water pollution.

Animal welfare: Growing public concern about animal welfare is influencing production practices.

Data Sources

FAOSTAT (Food and Agriculture Organization of the United Nations)

USDA (United States Department of Agriculture)

OECD (Organization for Economic Co-operation and Development)

Industry reports and market research publications

The Global cattle market

Market Size & Forecast (Approximate):

- **2023:** The global cattle market size (including beef and dairy) was estimated to be around **USD 1.5 trillion**.

- **2030:** It's projected to reach **USD 2.1 trillion** by 2030, exhibiting a Compound Annual Growth Rate (CAGR) of around **4.5%**.

Table C.4. World meat projections

Calendar year

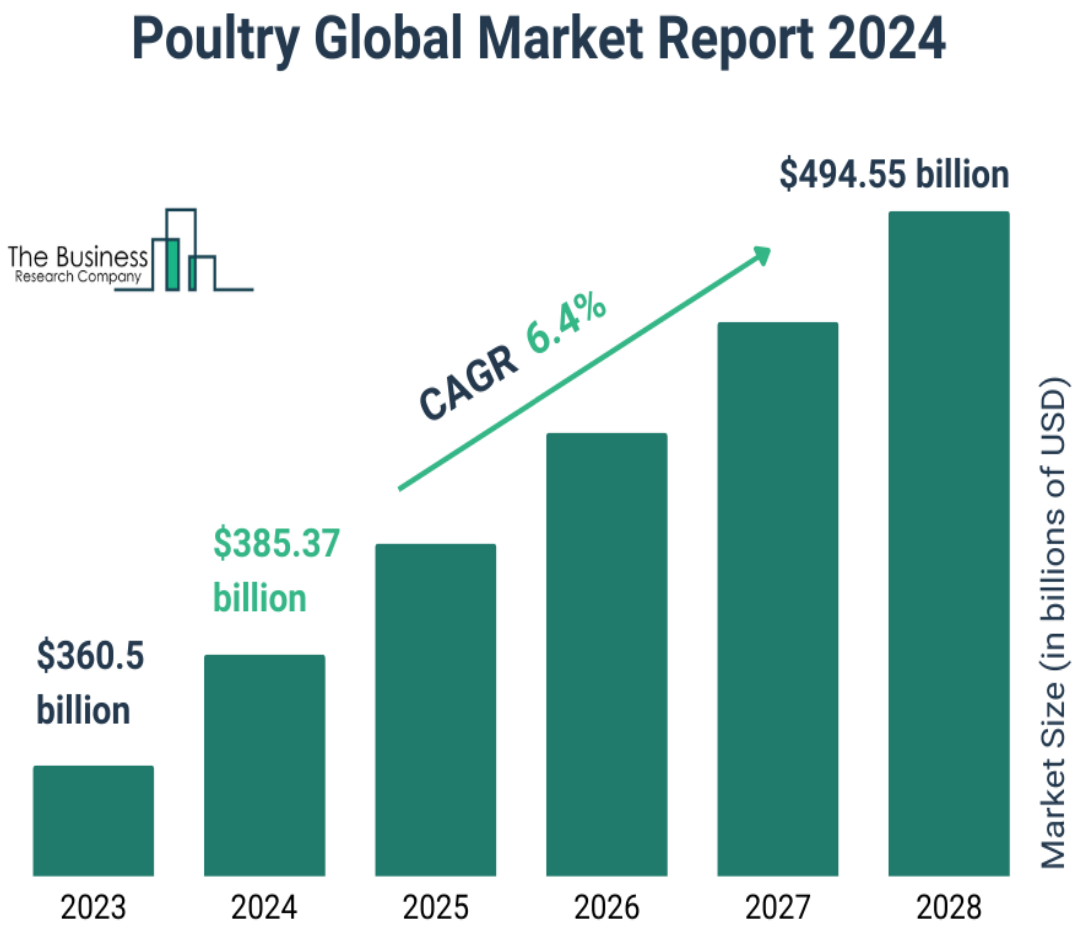
		Average 2019-21est	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
WORLD												
BEEF AND VEAL												
Production	kt cwe	70 556	72 217	72 937	73 339	73 784	74 220	74 690	75 139	75 539	75 956	76 384
Consumption	kt cwe	70 684	72 234	72 939	73 342	73 776	74 216	74 688	75 141	75 542	75 958	76 386
PIGMEAT												
Production	kt cwe	110 613	120 822	123 512	124 026	124 758	125 380	125 992	126 713	127 441	128 185	128 895
Consumption	kt cwe	110 471	120 819	123 440	124 024	124 757	125 378	125 988	126 710	127 435	128 184	128 893
POULTRY MEAT												
Production	kt rtc	132 476	135 929	137 777	139 715	141 848	143 808	145 748	147 725	149 733	151 788	153 850
Consumption	kt rtc	130 832	135 959	137 714	139 637	141 821	143 808	145 757	147 723	149 743	151 784	153 846
SHEEP MEAT												
Production	kt cwe	15 640	16 201	16 455	16 670	16 877	17 086	17 295	17 499	17 697	17 893	18 076
Consumption	kt cwe	15 695	16 209	16 463	16 678	16 884	17 093	17 302	17 505	17 704	17 899	18 081
TOTAL MEAT												
Per capita consumption[1]	kg rwt	34.1	35.2	35.4	35.4	35.5	35.5	35.5	35.5	35.5	35.6	35.6

Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database), http://dx.doi.org/10.1787/agr-outl-data-en.

Table C.11. World prices (cont.)

Real price

		Average 2019-21est	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
CEREALS												
Wheat[1]	USD/t	294.4	325.2	259.5	232.1	224.3	219.4	218.5	216.5	214.4	212.6	210.6
Maize[2]	USD/t	227.7	252.1	199.2	178.3	171.3	167.8	167.9	166.1	164.0	162.1	160.2
Other coarse grains[3]	USD/t	251.0	300.0	236.6	211.2	202.2	196.2	196.7	195.4	194.1	192.5	190.8
Rice[4]	USD/t	416.4	374.9	365.9	360.9	357.2	351.8	346.1	340.1	334.3	328.7	323.2
Distiller's dry grains[5]	USD/t	192.1	172.0	161.6	155.4	148.6	144.7	144.2	143.0	141.6	139.9	137.7
OILSEEDS												
Soybean[6]	USD/t	524.8	527.3	454.2	421.0	415.0	411.3	411.3	411.7	408.0	406.1	406.8
Other oilseeds[7]	USD/t	627.6	678.0	538.9	518.6	488.8	481.6	485.2	482.1	479.8	477.9	476.1
Protein meals[8]	USD/t	418.9	411.7	357.6	332.8	324.5	321.5	324.1	323.6	322.9	322.5	320.5
Vegetable oils[9]	USD/t	1 174.2	1 146.5	997.0	989.1	961.2	957.5	949.4	945.7	939.9	936.7	933.4
MEAT												
Beef and veal												
Price, EU[14]	USD/t dwt	4 339.4	4 876.3	4 205.1	3 794.6	3 743.5	3 696.0	3 659.9	3 611.9	3 575.9	3 537.2	3 492.6
Price, United States[15]	USD/t dwt	4 245.0	4 657.5	4 336.2	4 088.5	3 932.8	3 891.3	3 850.4	3 797.4	3 755.4	3 713.8	3 669.8
Price, Brazil[16]	USD/t dwt	4 626.7	5 241.3	4 492.0	4 052.9	4 006.4	3 962.6	3 921.4	3 868.1	3 830.9	3 791.3	3 744.3
Pigmeat												
Price, EU[17]	USD/t dwt	1 891.7	1 738.2	1 530.9	1 546.2	1 521.3	1 505.5	1 494.3	1 472.0	1 454.8	1 425.6	1 397.2
Price, United States[18]	USD/t dwt	1 660.2	2 104.4	1 650.4	1 534.4	1 426.3	1 419.7	1 410.2	1 387.4	1 364.9	1 335.9	1 304.1
Price, Brazil[19]	USD/t dwt	2 419.9	2 384.4	2 077.2	2 108.8	2 061.3	2 034.4	2 013.8	1 982.4	1 959.5	1 919.9	1 879.0
Poultry meat												
Price, EU[20]	USD/t rtc	2 228.3	2 302.9	2 150.8	2 130.5	2 130.3	2 126.0	2 122.8	2 098.3	2 068.3	2 040.7	2 013.4
Price, United States[21]	USD/t rtc	1 087.4	1 147.2	1 018.7	1 002.6	999.9	995.6	993.1	980.6	965.9	951.9	928.8
Price, Brazil[22]	USD/t rtc	1 597.8	1 703.1	1 510.0	1 486.3	1 482.5	1 477.0	1 474.5	1 457.3	1 435.6	1 415.3	1 394.6
Sheep meat												
Price, New Zealand[23]	USD/t dwt	5 036.5	4 671.6	4 500.2	4 426.1	4 373.7	4 340.7	4 316.1	4 269.9	4 245.0	4 205.6	4 151.9
FISH AND SEAFOOD												
Product traded[24]	USD/t	3 187.7	3 714.8	3 261.3	3 231.7	3 128.2	3 127.2	3 147.1	3 283.9	3 103.7	3 089.3	3 078.2
Aquaculture[25]	USD/t	3 119.5	3 520.0	3 113.0	3 111.9	3 042.0	3 064.9	3 100.1	3 240.7	3 095.1	3 106.9	3 119.1
Capture[26]	USD/t	1 939.2	2 085.5	1 893.5	1 872.2	1 819.4	1 810.0	1 809.6	1 857.5	1 775.7	1 760.9	1 747.7
Meal[27]	USD/t	1 497.4	1 466.3	1 356.1	1 380.7	1 206.6	1 212.8	1 262.3	1 328.3	1 250.0	1 256.6	1 263.6
Oil[28]	USD/t	1 966.7	2 176.0	1 853.2	1 713.6	1 519.2	1 494.4	1 490.1	1 737.8	1 599.6	1 611.4	1 623.2



Poultry Market Size 2024 And Growth Rate

The poultry market size has grown strongly in recent years. It will grow from **$360.5 billion in 2023 to $385.37 billion in 2024 at a compound annual growth rate (CAGR) of 6.9%.**

The growth in the historic period can be attributed to strong economic growth in emerging markets, rise in consumption of meat, low interest rates, increased awareness about the health benefits, and rise in disposable income.

Poultry Market Segmentation

1) By Type:

Chicken, Turkey, Ducks, Other Poultry

2) By Product Type:

Fresh/Chilled, Frozen, Ready-To-Cook, Ready-To-Eat, Other Product Types

3) By Nature:

Organic, Conventional

4) By Distribution Channel:

Supermarkets/Hypermarkets, Convenience Stores, Food Services, E-Commerce, Other Distribution Channels

Poultry Market Growth Forecast

The poultry market size is expected to see strong growth in the next few years. It will grow to **$494.55 billion in 2028 at a compound annual growth rate (CAGR) of 6.4%.**

The growth in the forecast period can be attributed to rise in consumption of protein, increasing government support, rapid urbanization and increasing population.

Major trends in the forecast period include technology advancements, organic poultry, camera-based weighing systems, use of artificial intelligence, increasing investments and strategic partnerships and acquisitions..

Lower input costs and affordability

Feed efficiency and cost reduction

Advancements in poultry nutrition and management practices have led to improved feed efficiency. Lower input costs—particularly for feed, vaccines, and medications—have made chicken production more economically viable. As a result, consumers benefit from affordable chicken prices, encouraging higher consumption.

The role of technology

Precision agriculture, genetic selection, and data-driven decision-making have revolutionized poultry farming. Farmers can optimize feed conversion ratios, reduce waste, and enhance productivity. These technological innovations contribute to the industry's growth.

Consumer behavior and price sensitivity

Chicken as the preferred protein

In an increasingly health-conscious world, chicken remains a popular choice. It is lean, versatile, and adaptable to various cuisines. As inflation eases and wages improve, consumers continue to prioritize affordability, making chicken an attractive option.

The Rise of convenience foods

Processed chicken products—such as nuggets, sausages, and ready-to-eat meals—have gained prominence. Convenience-driven demand further fuels the industry. As urbanization continues, time-strapped consumers seek quick, nutritious options.

Regional patterns and opportunities

Southeast Asia: a hotbed of growth

Countries like Indonesia, Vietnam, and Thailand are witnessing robust poultry demand. Rising incomes, population growth, and changing dietary habits drive consumption. Investments in infrastructure and supply chain logistics are critical for sustained growth.

Middle East and Latin America

These regions exhibit steady growth, albeit at levels slightly below the global average. **Urbanization, increased protein intake, and expanding middle-class populations contribute to poultry consumption.** Producers must balance supply with demand to avoid oversupply challenges.

Geopolitical challenges and input costs

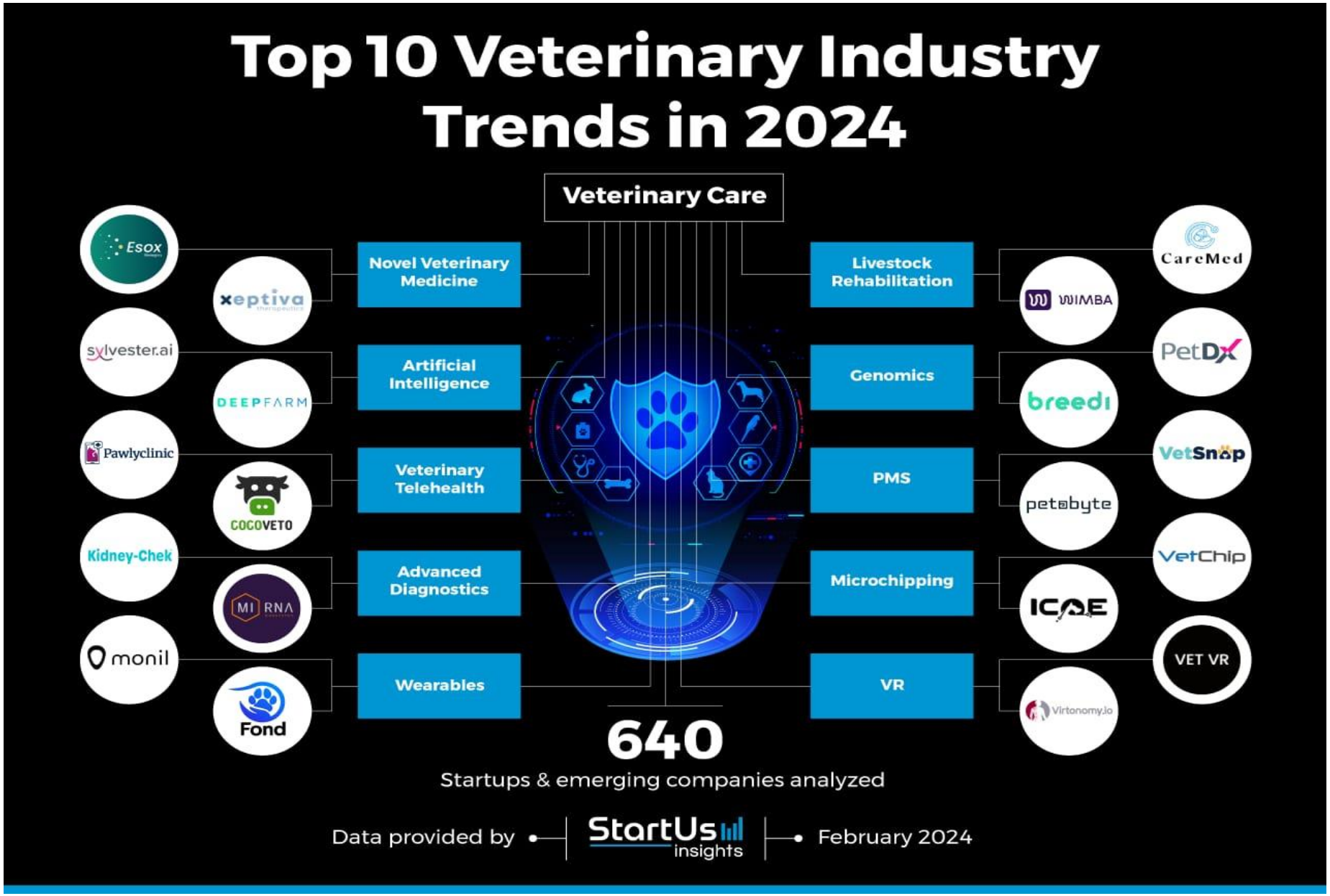
Navigating uncertainties

Global geopolitical tensions impact input costs. **The conflict in Ukraine disrupts grain markets, affecting feed prices. Additionally, climate risks and energy costs remain volatile.** Producers must adapt to these challenges while maintaining profitability.

Trade dynamics

Raw chicken vs. processed poultry

While raw chicken trade continues to expand, processed poultry faces hurdles. Foodservice markets in importing countries demand convenience and quality. Brazil, Thailand, and China, as major exporters, must address these preferences to sustain growth.



Top 10 Veterinary Industry Trends in 2024

1. Novel Veterinary Medicine
2. Artificial Intelligence (AI)
3. Veterinary Telehealth
4. Advanced Diagnostics
5. Wearable's
6. Livestock Rehabilitation
7. Genomics
8. Practice Management Systems (PMS)
9. Micro chipping
10. Virtual Reality (VR)

1. Novel Veterinary Medicine

Esox Biologics offers a Biologic Therapy

UK-based startup **Esox Biologics** develops ***Aquabody,*** a biologic therapy designed for aquatic environments to prevent diseases. **Tackling the overuse of antibiotics in aquaculture**, Aquabody combats antimicrobial resistance and preserves beneficial microbes.
The startup also offers rapid pathogen detection via automated qPCR, genome sequencing for microbial threat identification, and metagenomic analysis for comprehensive microbiome insights.

Xeptiva Therapeutics provides a Chronic Neuroinflammation Treatment

Uruguayan startup **Xeptiva Therapeutics** offers recombinant multi-target immunogens targeting neurogenic inflammation. These immunogens, designed as conformational isomers, mimic immunogenic epitopes without the biological activity of inflammatory mediators. The vaccination elicits antibodies against key inflammation mediators like growth factors and interleukins. They reduce chronic inflammation and symptoms like pain and itching in pets.
Xeptiva Therapeutics' product pipeline focuses on common pet ailments like osteoarthritis chronic pain and atopic dermatitis, improving the quality of life for aging pets. Its approach also emphasizes early detection and comprehensive treatment plans involving active owner participation. This enables personalized, effective pain management for companion animals.

2. Artificial Intelligence

Sylvester.AI enables Facial Cues-based Pain Analysis

Canadian startup **Sylvester.AI** makes Tably, an AI-powered API that interprets cats' facial cues to assess their pain levels. Trained on vet-approved pain scales, it analyzes key facial indicators like ear position and muzzle tension from photos. Moreover, the API utilizes various AI techniques, including object detection, image suitability detection, object extraction, image categorization, and result analysis.

To ensure accuracy, the company's algorithm first verifies the presence of a feline face in the image and only then proceeds to a more detailed AI analysis. This step minimizes errors and enhances the reliability of the results. The tool also aids in post-procedure care and ongoing health monitoring, providing cat owners and veterinarians with precise, reliable insights. This improves feline healthcare management, in-clinic andremotely.

DeepFarm facilitates Cattle Behavior Tracking

South Korean startup **DeepFarm** combines AI and animal science to innovate in the farming and livestock sector. Its AFA (AI for Animal) solution monitors and tracks cattle behavior. This AI-driven system provides real-time data notifications to farmers and managers, enabling the prediction and prevention of various issues associated with cattle rearing and management.

AFA also operates autonomously through embedded devices with cameras, eliminating the need for server-based image data analysis. This non-intrusive, stress-free approach improves farm productivity and aids in identifying and monitoring livestock behavior effectively.

3. Veterinary Telehealth

Pawlyclinic enhances In-Clinic Veterinary Services

Singaporean startup **Pawlyclinic** provides a platform for veterinarians to provide comprehensive care remotely. For example, it provides flexible work scheduling and digital storage, increases client interaction, and simplifies the review of medical records. Also, the platform offers medication prescription and delivery, as well as referrals for in-clinic care and diagnostic tests.
This way, the platform enhances in-clinic veterinary services and empowers pet parents to better manage their pets' health conveniently. In cases where teleconsultation is not suitable, vets refer pet parents to the startup's network of clinics, ensuring seamless and continuous care.

CocoVeto builds a Farm Animals Telemedicine App

France-based startup **CocoVeto** develops an app, *CocoFeed,* for breeders and rural veterinarians. It utilizes AI to address veterinarian scarcity and assist breeders in their transition processes. The app enables rapid response and provides thematic sheets on animal feed prevention, enhancing knowledge transfer to farmers. The agroecological-committed app further reduces production losses and offers enhanced support.
CocoVeto also offers a virtual assistant and video-conferencing service, accelerating pathology treatr
These solutions ensure legal security in breeder-veterinarian exchanges, simplify health monitoring
support innovative approaches in agricultural management. For breeders, the app reduces mor
through prevention, aids knowledge acquisition, and increases livestock income.

4. Advanced Diagnostics

Kidney-Chek aids in Kidney Issues Detection

Canadian startup **Kidney-Chek** offers a saliva test that measures salivary urea to identify potential kidney issues. The diagnostic tool changes color to signal health concerns, allowing for timely veterinary intervention. The startup also detects severe dehydration and other health issues. The tests can be performed at home with a mouth swab, providing results within minutes.

MI:RNA Diagnostics advances Animal Health Screening

UK-based **MI:RNA Diagnostics** develops two solutions – *NEMO Johne's Disease Screening* for cattle and *NEMO Cardiac Health Screening* for cats and dogs. The *Johne's Disease Screening* solution employs AI and statistical modeling to detect cattle in the pre-shedding or pre-clinical stage of Johne's disease from blood samples. Moreover, it allows vet doctors to better understand the resilience of the disease to protect the herd.

Its cardiac health screening solution for cats and dogs also identifies early-stage heart disease from a blood sample. For this, it utilizes miRNA profiling for precise diagnosis and management of conditions like myxomatous mitral valve disease (MMVD) in dogs and hypertrophic cardiomyopathy in cats. With high accuracy, sensitivity, and specificity, the startup offers an effective solution for early detection, breed screening, and pre-anesthetic evaluation.

5. Wearable's

Monil simplifies Animal Health Monitoring

Norwegian startup **Monil** aids in cattle farming with its virtual fencing system. The startup's technology enhances animal health monitoring, simplifies pasture management, and ensures efficient use of land. Its system includes a mobile app and a collar (the "clave") that allows farmers to set up virtual fences to establish grazing boundaries. This enables farmers to track animal movements in real time and receive instant alerts on any irregularities.

The startup enables farmers to better understand the grazing patterns and have a know-how of animal health and behavior. Further, Monil's app offers insights into the well-being, activity levels, and estrus cycles of livestock.

Fond Solutions streamlines Animal Habit Tracking

Indian startup **Fond Solutions** offers *FlufFit* which allows pet owners to monitor and manage dogs' activities by tracking their walking, playing, and sleeping habits to understand their sleep patterns with ease. Equipped with patent-pending technology, *FlufFit* measures the dogs' body temperature and assists in effective weight management. The device also connects the dogs to veterinarians, delivering health insights for proactive care.

This healthcare device translates complex data into simple daily insights accessible via a connected a result, it enables pet owners to better understand the physical and emotional health of dogs. The app personalized fitness goals based on the dog's breed, weight, and age, addressing the common issu obesity. Fond offers features like activity and sleep quality tracking, and vet-reviewed insights to diseases.

6. Livestock Rehabilitation

Caremed advances Shock Wave Lithotripsy for Urinary Stone Removal

Turkish startup **Caremed** provides *PetLith*, a urinary stone removal tech for animals. It utilizes an animal-specific extracorporeal shock wave lithotripsy system that features advanced robotic electrohydraulic therapy. This non-invasive**, pain-free solution breaks down urinary stones in animals**, offering a high level of precision and tissue protection during treatment.
Compatible with various X-ray and ultrasound systems, the system allows for accurate stone localization and tracking. *PetLith*'s collaborative robot arm further ensures precise targeting. *PetLith*'s user-friendly design, economical operation, and quick treatment times make it an efficient and cost-effective choice for veterinary lithotripsy.

Wimba offers 4D-printed Orthopedic Products for Animals

Polish startup **Wimba** offers *V-OP*, a range of 4D-printed orthopedic products for animals. For instance, its **carpus orthosis supports wrist joints and tarsus orthosis supports the ankle**. These products use the *Wimba Therapy System* which features adjustable fastening systems and a controlled motion and rehabilitation monitoring component.
The startup also has a *WimbaSCAN* smartphone app that simplifies measurement collection for plas and bands. *Wimba Boots* shields animals' paws from extreme temperatures and harmful elements salt, snow, and debris. *Wimba Prostheses* for limbs further provides a balanced and biomechanical solution for pets with limb impairments. Wimba's products thus address various animal conditio degenerative diseases to injuries.

7. Genomics

PetDx offers a Liquid Biopsy Test

US-based startup **PetDx** develops *OncoK9*, a liquid biopsy test that uses NGS for early multi-cancer detection (MCED) in dogs. It employs advanced genomic analysis and proprietary bioinformatics algorithms to detect cancer signals from a blood draw. Performed at PetDx's ISO-certified lab in San Diego, *OncoK9* uses Illumina NovaSeq 6000 instruments for its complex testing.
The *OncoK9* test process involves collecting a blood sample containing cell-free DNA from healthy and potentially cancerous cells. The sample undergoes centrifugation to separate its components, followed by extraction and sequencing of cell-free DNA. PetDx's specialized bioinformatics algorithms then analyze the data to identify cancer-associated genomic alterations. The final step is a clinical report sent to the veterinarian, to detect canine cancer early on.

Breedi specializes in Genetic Testing & Selection

Dutch startup **Breedi** offers genetic testing and genomic selection, including full-cycle genetic testing with estimated breeding value (EBV) and genomic breeding value (GBV). The service enhances farm profitability by improving animal productivity, fertility, and longevity. Additionally, it provides breeding centers with verified pedigrees and breeding tools. The service encompasses genotyping, productivity and health pr disease carrier detection, and inbreeding control, using advanced algorithms for breeding value calcu The startup also provides extensive support and training for staff in genomic selection, sampling tec and data utilization.

8. Practice Management Systems

VetSnap develops Controlled Drug Log Software

US-based startup **VetSnap** advances DEA compliance for veterinary practices with its digital controlled drug log software. This cloud-based solution transforms the traditional paper logbook into an automated, error-reducing system that integrates with PMS. It also simplifies inventory management by automatically flagging log errors, reconciling inventory levels, and integrating patient and client data. Accessible on any browser or mobile device, VetSnap's software eliminates the need for hardware and tedious software upgrades.
Key features of the software include efficient and controlled drug inventory management, real-time inventory breakdown, simplified logging and invoicing processes, and automated overnight drug log reconciliation with next-dayfixes

Petabyte offers Cloud-based Veterinary Practice Management

US-based **Petabyte** provides a veterinary practice management solution that offers actionable insights to improve productivity and patient care. The cloud-based software consolidates and analyzes data from the practice management system, marketing, CRM, ERP, and more. It cleanses, consolidates, and standardizes data utilizing a digital directory, AAHA accounting codes, and proprietary algorithms. The software then converts it into a secure, encrypted asset accessible only to the user.
Built-in dashboards and custom reporting tools further empower the teams with location-specific or wide visibility. Additionally, the report builder feature monitors KPIs, schedules emailed reports, and s to share insights. For enterprise-level analytics, Petabyte audits new acquisitions, generates custom and leverages the full capabilities on demand.

9. Microchipping

VetChip manufactures a Biosensing Microchip

Australian startup **VetChip** develops a biosensing microchip for continuous health monitoring. Implanted under the animal's skin, it tracks key biometric indicators like temperature, heart rate, respiratory rate, and oxygenation levels. The owner's smartphone wirelessly receives this data which the proprietary AI software analyzes to detect any health abnormalities. Owners receive automatic alerts about unusual health changes, thus enabling timely intervention.

The company's microchip also includes a location monitoring feature, making it a valuable tool for farming and agriculture. It integrates with smart farming practices, enhancing biosecurity, early disease detection, animal welfare, and yield optimization. VetChip's proactive health monitoring system thus ensures early intervention for improved animal health outcomes and disease management.

ICOE Pet provides Ultra-Wideband (UWB) Location Tracking

US-based startup **ICOE Pet** makes a microchip compatible with smartphones and existing scanners. It offers advanced features like real-time tracking, temperature monitoring, and heartbeat measurement. With smartphone scanning and ultra-wideband tracking, farmers reduce prolonged separation when the animals go missing.

Designed for a range of applications, the microchip enhances safety and health monitoring for pets, zoo animals, and wildlife. For instance, it facilitates remote health assessments in zoos and st livestock management with automated counting and health alerts. Further, the company's microch preventing human-wildlife conflicts and enhances the safety of marine life like manatees against boat strikes.

10. Virtual Reality

VET VR simplifies Animal Anatomy Study

Latvian startup **VET VR** allows students to learn animal anatomy through VR, offering an immersive and interactive 3D educational experience. This technology allows users to explore detailed models of animal structures, from bones and muscles to internal organs, enhancing comprehension and retention.
The startup's VR solution also allows learners to select and learn about specific anatomical parts with pop-ups, realistic virtual models, and model manipulation. Additionally, VET VR provides a VR training environment for veterinary procedures like TPLO surgery, allowing doctors to practice and repeat surgical steps in a life-like, risk-free setting. This learning tool enhances visual memory and offers a comprehensive, hands-on learning experience.

Virtonomy advances Digital Twin-based In-silico Trials

German startup **Virtonomy** develops a digital twin solution, *v-Patients*, providing an alternative to traditional in vivo and in vitro testing. Its database includes virtual human and animal patients derived from real CT scans. The solution further allows for the selection of specific populations based on various criteria such as disease, age, sex, and ethnicity.
Moreover, it features advanced 3D visualization, interactive implantation, accurate measureme
statistical shape models for analyzing different demographic groups and identifying worst-case an
These features aid in device design optimization, virtual patient cohort analysis, statistical population
and more.

Poultry Main Therapeutic Area

Pharmaceuticals
Antibiotics
Anticoccidial feed Additives
Anticoccidial Oral solution
Mucolytics

Vaccines

Agricultural
Feed Additives
Premixes (Mineral & Vitamins)
Immune Stimulants Oral sol
AntiMycotoxines Oral sol.
Amino Acids Oral sol.

Challenges

- Registration
- Specialty
- Counterfeit
- Costing
- Packaging
- Distribution

Small scale poultry farming

Competition
- High per-unit production cost
- Weak forward linkage among the small-scale farms

Rumors
- Respond more to rumors on commercial poultry and poultry products

Capital
- Lack resources
- No access to formal financial institutes to credit
- High rate for bank loans

Market
- Weak infrastructure
- Demand and supply miss-match
- Information gap on market stability and estimation

Supply chain
- Dependency on the dealers/agents for feeds, medicines, operational necessities

Veterinary and extension services
- Lack of skilled
- Poor access
- Less regulatory control
- Inadequate extension programs

Educational and knowledge
- No institutional training on poultry farming
- Lack of qualification and farming experience

Biosecurity
- Minimum biosecurity knowledge
- Less implementation performance

Ministry of Health
Central Administration for
Pharmaceutical Affairs
General Directorate of Registration
Veterinary Drugs Registration
Department

وزارة الصحة
الإدارة المركزية للشئون الصيدلية
الإدارة العامة للتسجيل
ادارة تسجيل الأدوية البيطرية

Kindly find below (version1 – dated 12/5/2016) for the guidance list of reference countries to be used in checking the reference of your product submitted for new request inquiry form

Name	Home page
EMEA	http://www.ema.europa.eu/ema/index.jsp?curl=pages/medicines/landing/vet_epar_search.jsp&mid=WC0b01ac058001fa1c
FDA	http://www.accessdata.fda.gov/scripts/animaldrugsatfda/
Australia	https://portal.apvma.gov.au/pubcris;jsessionid=x5v7gxmHUeaBh1cOi0d--12A
UK	https://www.vmd.defra.gov.uk/ProductInformationDatabase/Default.aspx
Canada	http://webprod5.hc-sc.gc.ca/dpd-bdpp/start-debuter.do?lang=eng
Japan	http://www.nval.go.jp/asp/asp_dbDR_idx.asp
IRELAND	http://www.hpra.ie/homepage/veterinary
Italy	https://www.vetinfo.sanita.it/j6_prontuario/farmaci/public/prodottomd/ http://www.salute.gov.it/farmaciVetWeb/FarmaciVetServlet
Germany	www.pharmnet-bund.de/static/de/index.html
France	http://www.ircp.anmv.anses.fr/
Swissmedic(Switzerland)	https://www.swissmedic.ch/arzneimittel/00156/00221/00222/00230/index.html?lang=en
Spain	http://www.aemps.gob.es/cima/fichasTecnicas.do?metodo=buscar
Sweden	https://lakemedelsverket.se/LMF/Lakemedel/Veterinara/?letter=A
Belgium1	http://www.fagg-afmps.be/fr/veterinaire/
Belgium2	http://www.bcfi-vet.be/nl/nldrugsearch.php
Austria	https://aspregister.basg.gv.at/aspregister/faces/aspregister.jspx?_adf.ctrl-state=16hd8zsrz4_4&_afrLoop=20307259760246721
Denmark	http://www.produktresume.dk/docushare/dsweb/View/Collection-72
Netherlands	http://db.cbg-meb.nl/ords/f?p=111:1:0:::SESSION:P0_DOMAIN,P0_LANG:V,EN
New Zealand	https://eatsafe.nzfsa.govt.nz/web/public/21
Portugal	http://medvet.dgav.pt/Pesquisar

Kindly note the following:

- The submitted request inquiry form should be matched to the Reference (The same Active ingredient, Strength, Dosage form, Route of administration).
  otherwise it will be considered as no reference.
- The submitted reference product should be **valid** (i.e. registered & marketed).
- Any modification on this list will be announced.

Tel.: +202 – 23684288 +202 – 23648769 +202 – 23640368 Ext.:1204 Fax: +202 - 23684194
Website: www.eda.mohp.gov.eg Version: 01 Email: regvet@eda.mohp.gov.eg

AH Target Customers

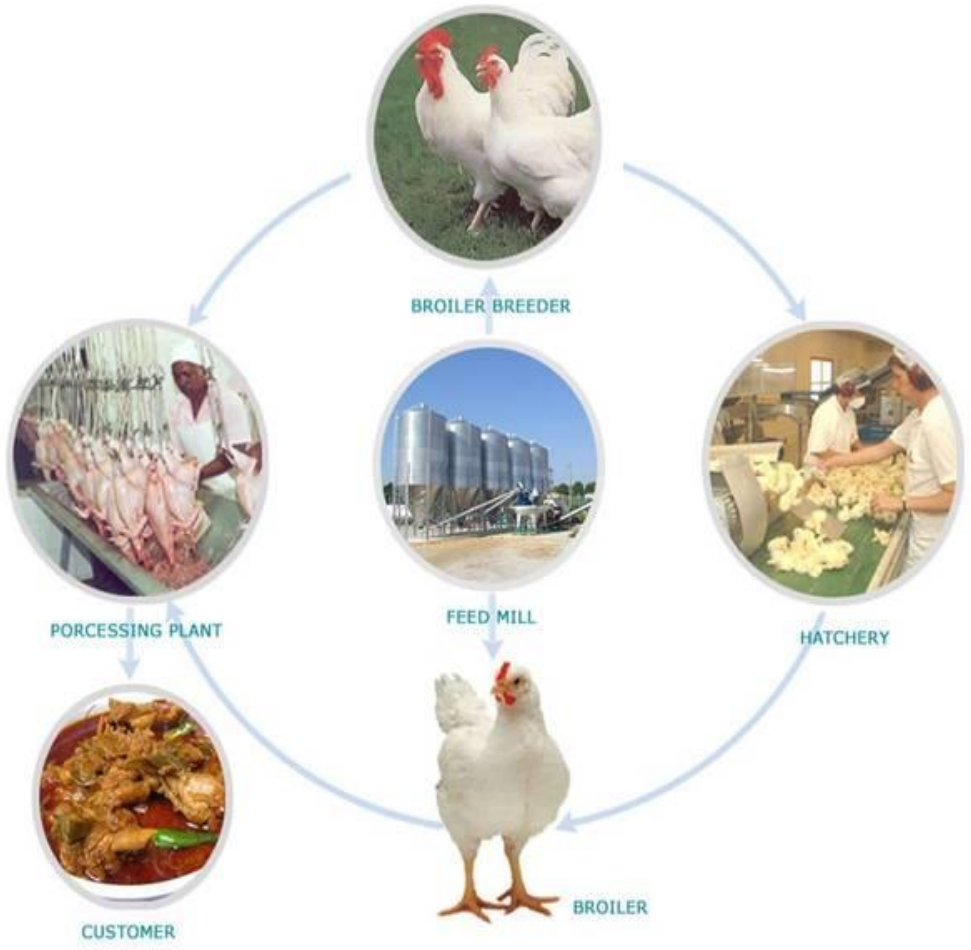
Consultants

Retailers

Distributers

Feed Mills

AH Target Customers



Key Accounts (Integrators)

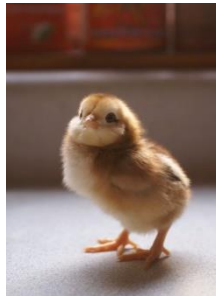
End Users

Egyptian Poultry Industry

13 B.

100 B.

3 Million



1.3 B. BR

Raw Material Importation 2022

8.5 MT

4 MT

Top Players


International
Veterinary Club
Sharpen your skills


IFT
CORPORATION


ATCO
PHARMA
Quality We Care


UNITED
BIOMED


IPC
INTERPHARMA
Food Safety For Better Health


DakahliaPoultry


NAGY AWAD
GROUP


Ghannam
FOR VETERINARY PRODUCTS


IMV
Intermedicavet
Where you can trust


MV
Multi Vita
Animal Nutrition®

Top National Manufacturing Companies

ATCO PHARMA
Quality We Care

EVA PHARMA
ANIMAL HEALTH

MEVAC

ARABCOMED
ارابكو ميد
Committed to Quality

WAKI PHARMA
Waki
WP
واكي فارما

DELTA PHARMA
VETERINARY SECTOR

PHARMA SWEDE

ADWIA
ادويا

Top Feed & Feed additives Manufacturing Companies

Cargill™

DSM

BASF
We create chemistry

ADM®

zoetis

EVONIK
POWER TO CREATE

Alltech®

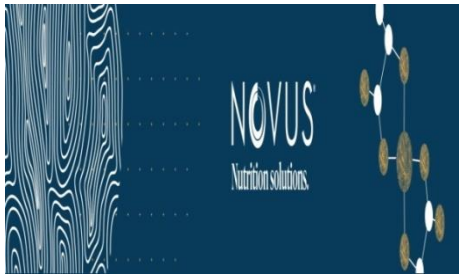
Elanco™

ADISSEO
A Bluestar Company

Top Feed & Feed additives Manufacturing Companies

KEMIN

DUPONT™



nutreco

ew | nutrition

ABVista

CHR HANSEN

Improving food & health

Phibro
ANIMAL HEALTH CORPORATION®

trouw nutrition
a Nutreco company

HUVEPHARMA®

Top Vaccine Producing Companies

zoetis

Elanco™

Boehringer Ingelheim

MSD Animal Health

HIPRA

Virbac

ceva

Top Vaccine Producing Companies

Global Top 20 Animal Health Companies in 2023

Company	Sales 2023
1. Zoetis	$8.08 Billion
2. Merck Animal Health	$5.55 Billion
3. Boheringer Ingelheim Animal Health	$4.89 Billion
4. Elanco	$4.7 Billion
5. IDEXX Laboratories	$3.8 Billion
6. Ceva Santé Animale	$2.3 Billion
7. Virbac	$2.5 Billion
8. Phibro Animal Health	$1.1 Billion
9. Dechra Pharmaceuticals	$1.6 Billion
Heska Corporation	$1.1 Billion

Global Top 20 Animal Health Companies in 2023

Company	Sales 2023
11. Vetoquinol	$1.5 Billion
Alltech	$2.3 Billion
Nutreco	$15.2 Billion
Cargill Animal Nutrition	$13.2 Billion
ADM Animal Nutrition	$9.6 Billion
Kemin Industries	$3.3 Billion
DSM Animal Nutrition & Health	$2.5 Billion
Novus International	$1.8 Billion
Adisseo	$1.6 Billion

Top 20 Poultry Producing Companies Worldwide (Approximate Revenue - 2023)

Tyson Foods (USA): $50 Billion (Poultry is a significant portion of their revenue)

JBS S.A. (Brazil): $53 Billion (Poultry is a key segment within their diverse portfolio)

BRF S.A. (Brazil): $10 Billion (Strong focus on poultry production)

Pilgrim's Pride (USA): $9 Billion (Primarily focused on chicken production)

Sanderson Farms (USA): $4 Billion (Primarily focused on chicken production)

Perdue Farms (USA): $13 Billion (Poultry is a major segment along with other proteins)

Koch Foods (USA): $3 Billion (Primarily focused on chicken production)

Charoen Pokphand Foods (Thailand): $18 Billion (Diversified, with poultry a major segment)

Japfa Ltd. (Singapore): $11 Billion (Poultry is a key segment within their diversified operations)

Wellhope Foods (China): $5 Billion (Poultry is a significant part of their business)

Top 20 Poultry Producing Companies Worldwide (Approximate Revenue - 2023)

Aviagen (UK): $1.5 Billion (Focus on poultry breeding and genetics)

Hubbard (USA): $1 Billion (Focus on poultry breeding and genetics)

Cobb-Vantress (USA): $1 Billion (Focus on poultry breeding and genetics)

Ross Breeders (USA): $1 Billion (Focus on poultry breeding and genetics)

Lohmann Animal Health (Germany): $1 Billion (Focus on poultry breeding and genetics)

IntAgra (Brazil): $1 Billion (Focus on poultry production and processing)

George's Inc. (USA): $1 Billion (Focus on poultry production)

FACC (France): $0.8 Billion (Focus on poultry production and processing)

Aramour (Brazil): $0.7 Billion (Focus on poultry production and processing)

Thank you!