

90th Marketing Club

23rd Cairo

52nd Business Club

Animal Health Marketing

(Egyptian Market Insights)

Tuesday 9-5-2023

9 PM EGY 9 PM KSA 10 PM UAE

FOUNDER & HOST

Dr.Mahmoud Bahgat



INSTRUCTOR

Dr.Mahmoud Samy

Marketing Director
FLARE PHARMA GROUP

Animal Health Market Overview

Mahmoud Samy
Marketing & Technical Director

1. Introduction
2. Role of Veterinarians
3. Market Price Challenges
4. Poultry Market Top Players
5. Poultry Market In Numbers
6. Development of the global industry.

Mahmoud Samy

Marketing & Technical Director

Veterinary medicine _ Cairo University

I Have an 16 Y experience in Both Human sector (Delta pharma , Hikma Egypt , MNB Qatar , Covidien Libya) & Animal health sector within ATCO pharma Egypt where i held the position of Senior Product Manager for Feed additive sector. My last position is Marketing Manager for EVA Pharma Animal Health Sector.

My current position is Member of the Board of Director at FLARE PHARMA GROUP.

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.



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.

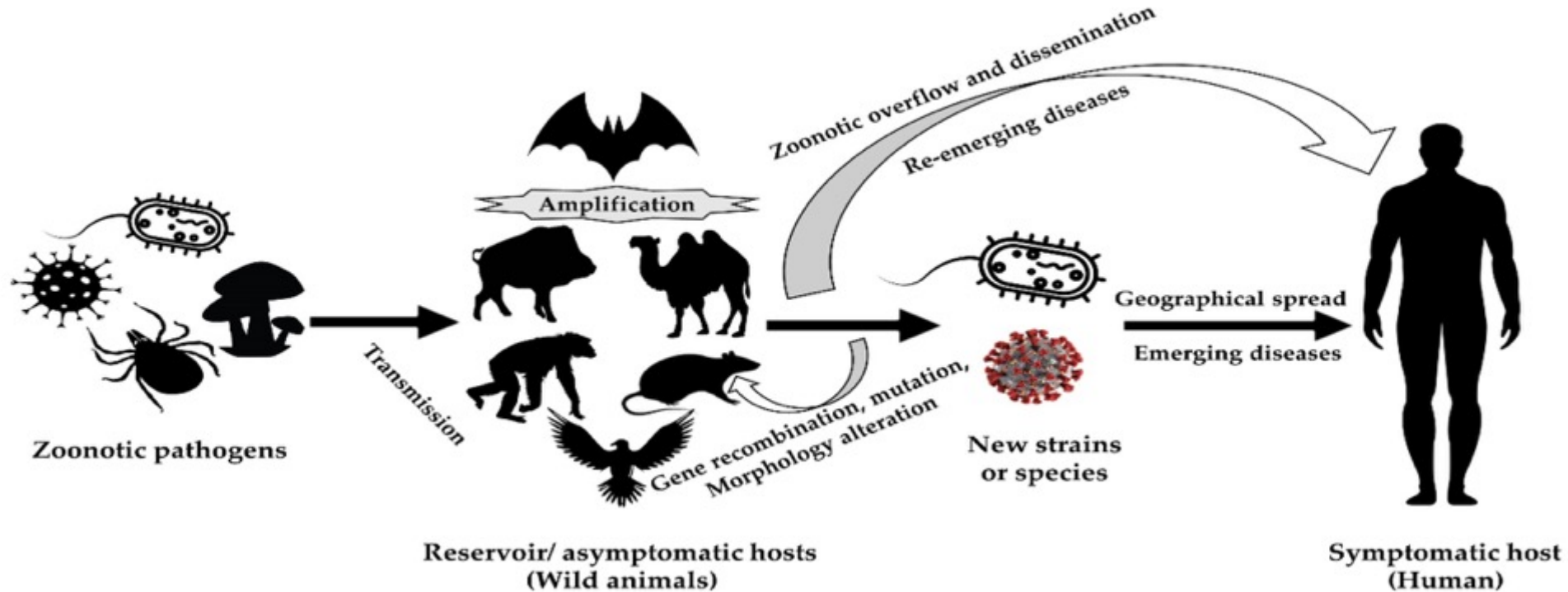


Role of Veterinarians



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.



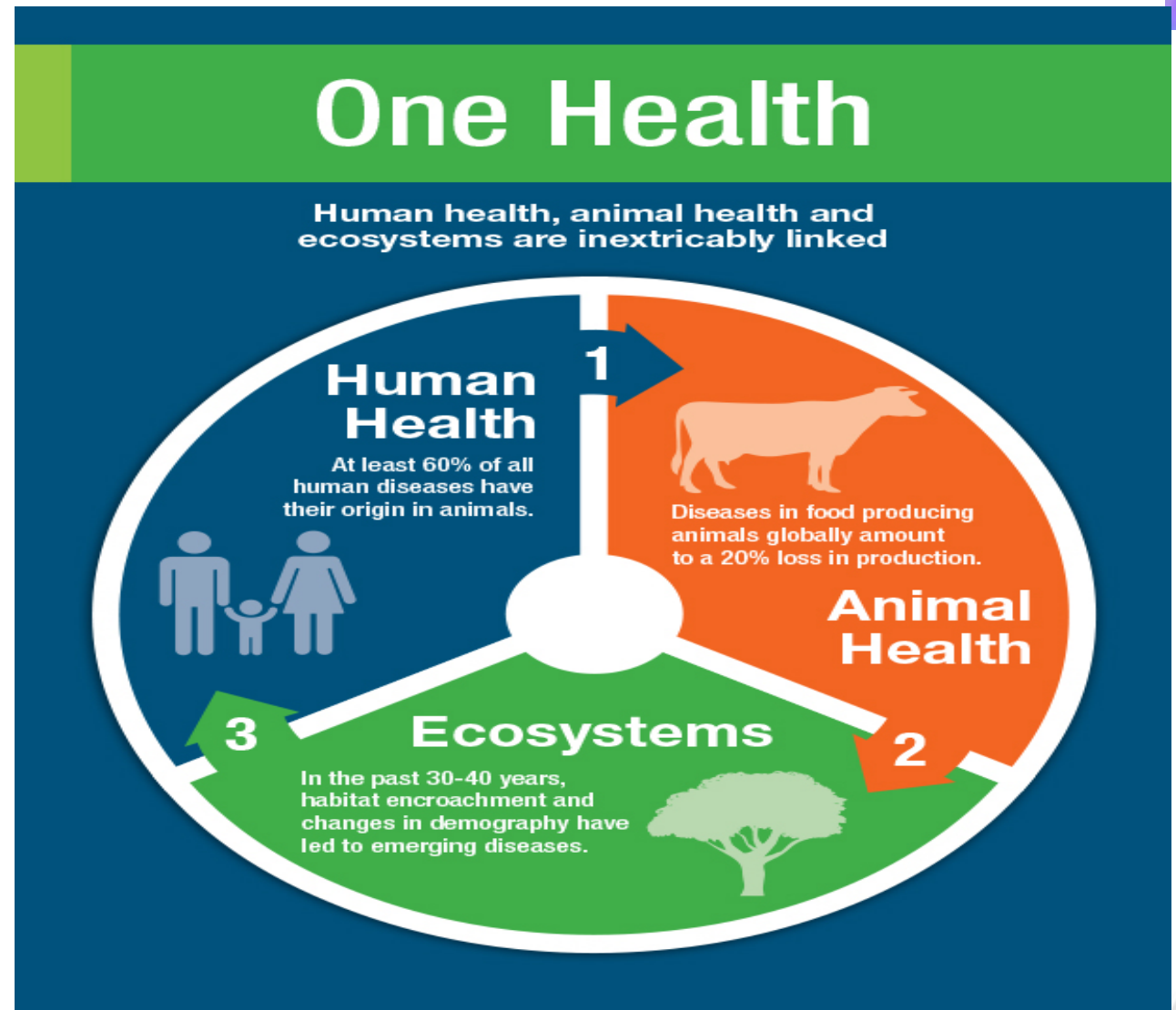
Using a One Health Approach to Protect Health for All



CDC experts are working to change the way we approach public health. Specifically, CDC wants people to know that human health isn't just about humans—it's **closely related to the health of animals** (including pets, wildlife, and livestock) **and the environment** that we share—an approach known as One Health. In 2018, experts from CDC's One Health Office helped **strengthen global health security** and capacity to prevent zoonotic diseases by collaborating with partners to conduct One Health Zoonotic Disease Prioritization Workshops in multiple countries and, for the first time, regions.



CDC – Centers for Disease Control and Prevention



Using a One Health Approach to Protect Health for All



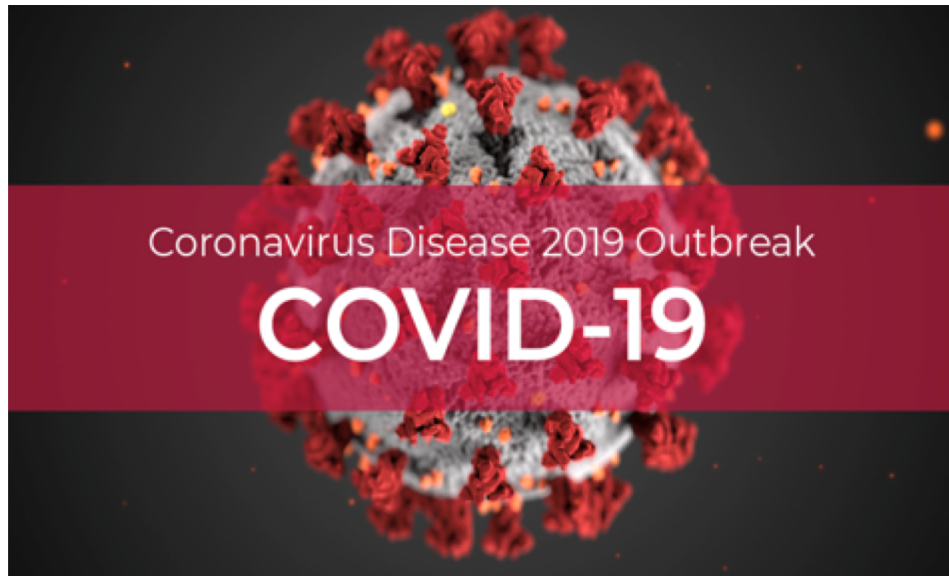
The **first regional workshops** were held for the Economic Community of West African States, which includes 15 member countries, and for US southern land border states. These regional workshops reflect the increased interest among partners to work together at the regional level **to prepare for shared threats** to people, animals, and the environment. CDC's One Health experts also facilitated national workshops in Mozambique, Ghana, and Uzbekistan. In Uzbekistan, they pilot tested a new toolkit to help the country develop a One Health strategy to prevent the diseases identified as being high priorities.

Commonly prioritized diseases worldwide include rabies, brucellosis, anthrax, and viral hemorrhagic fevers like Ebola and Marburg. By prioritizing the **zoonotic diseases that pose the biggest health threats**, countries can more efficiently build their laboratory capacity, conduct disease surveillance, plan outbreak response and preparedness activities, and create disease prevention strategies to reduce illness and death in people and animals.

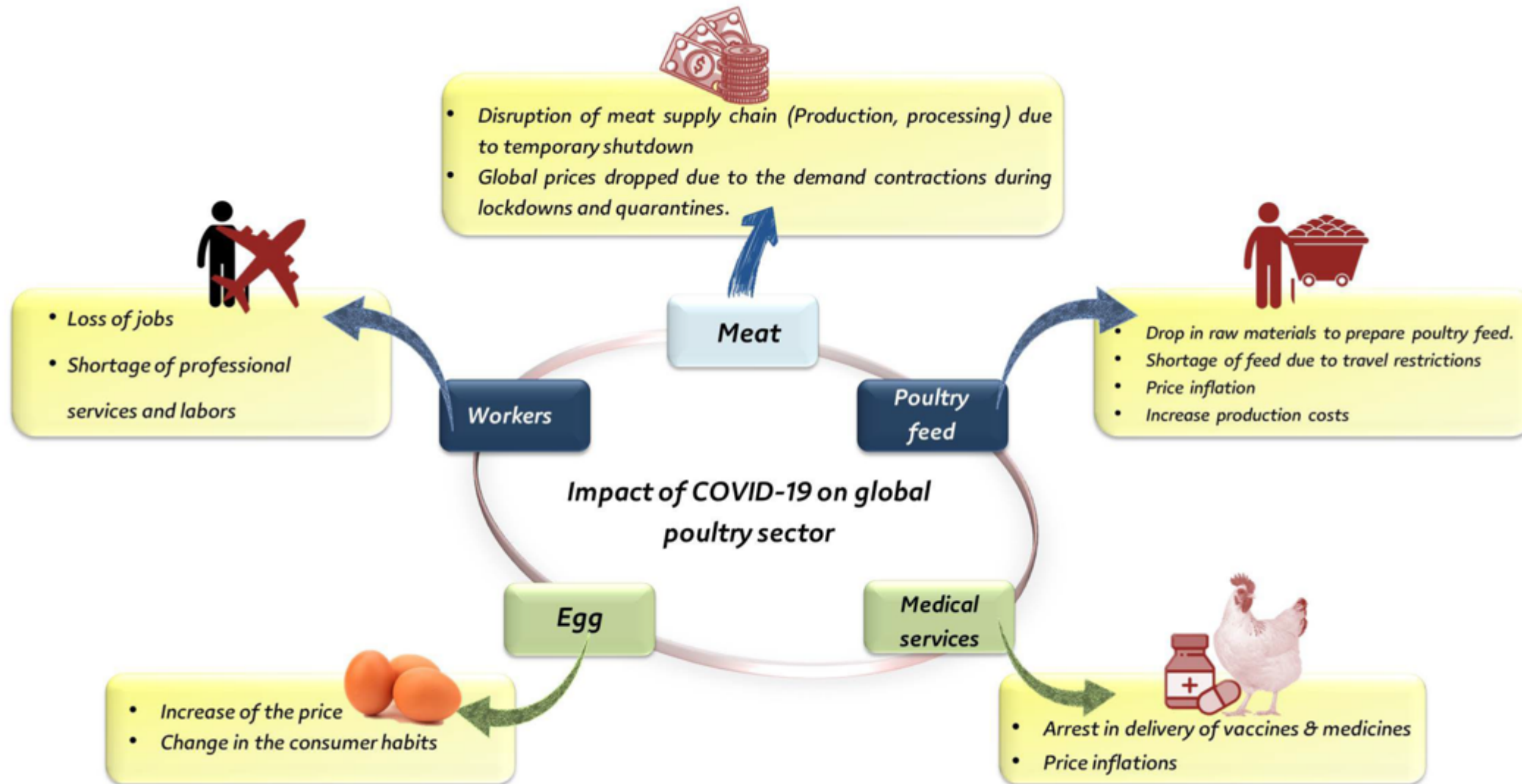
Source: <https://www.cdc.gov/>



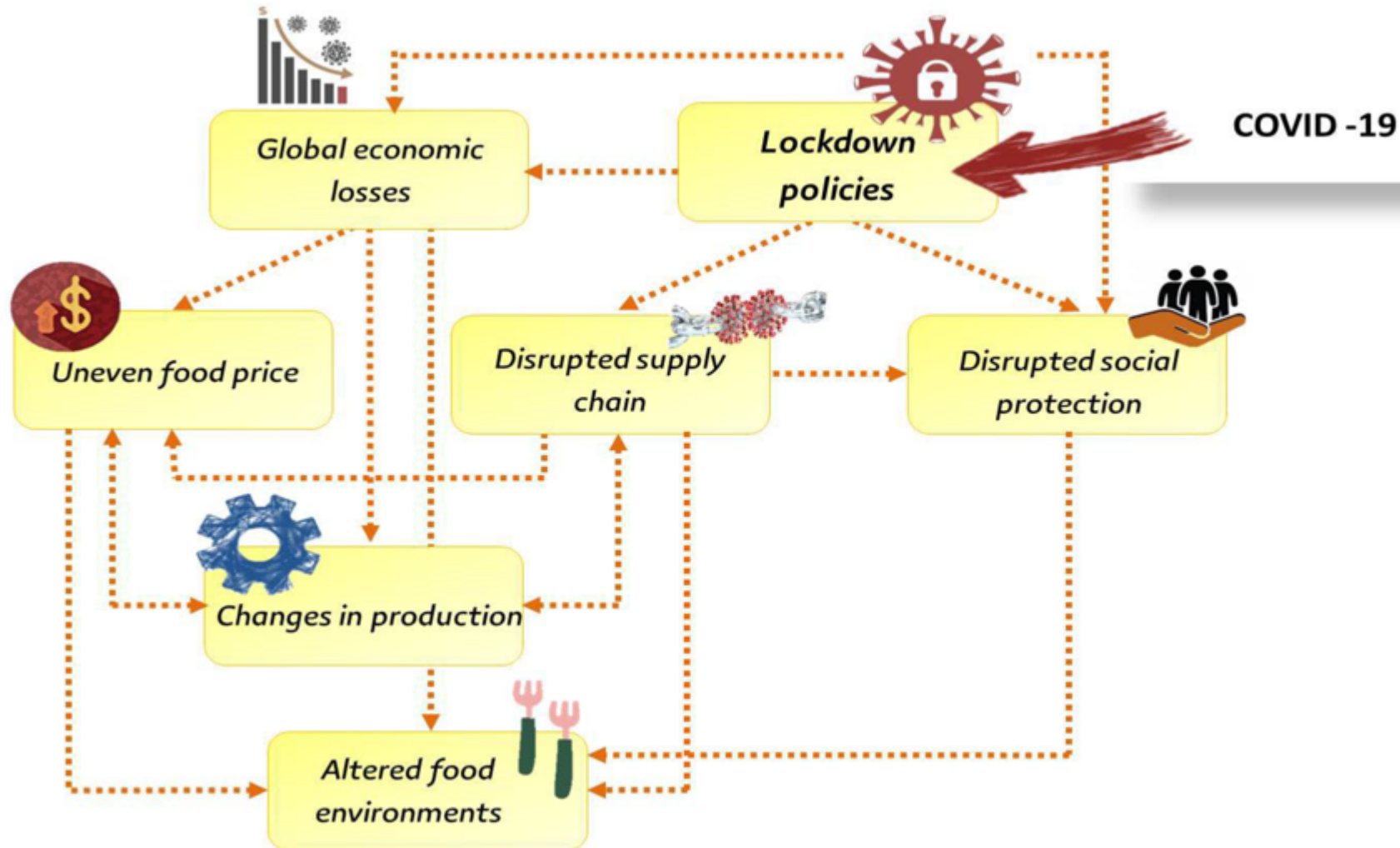
Introduction



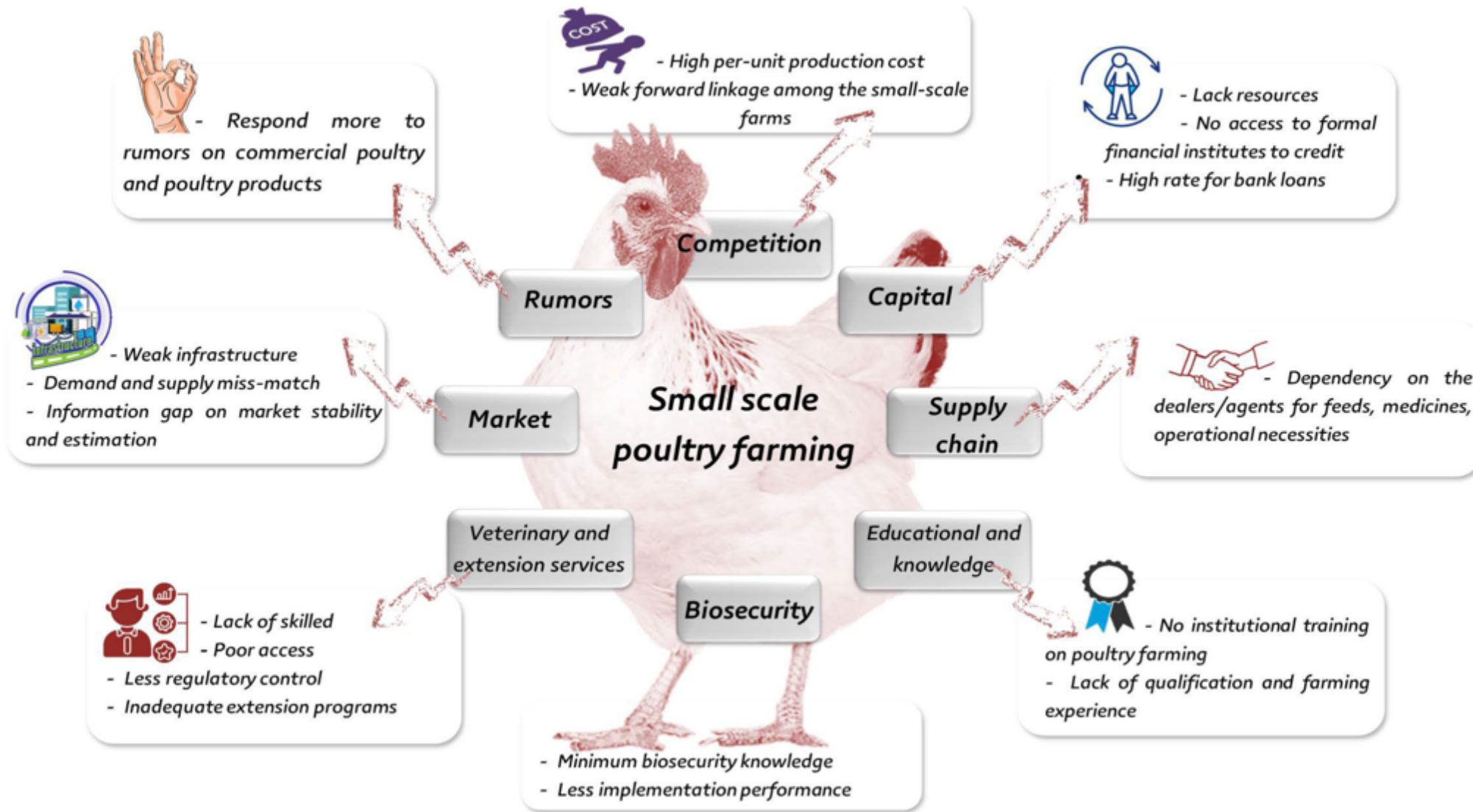
Introduction



Introduction



Introduction





Poultry

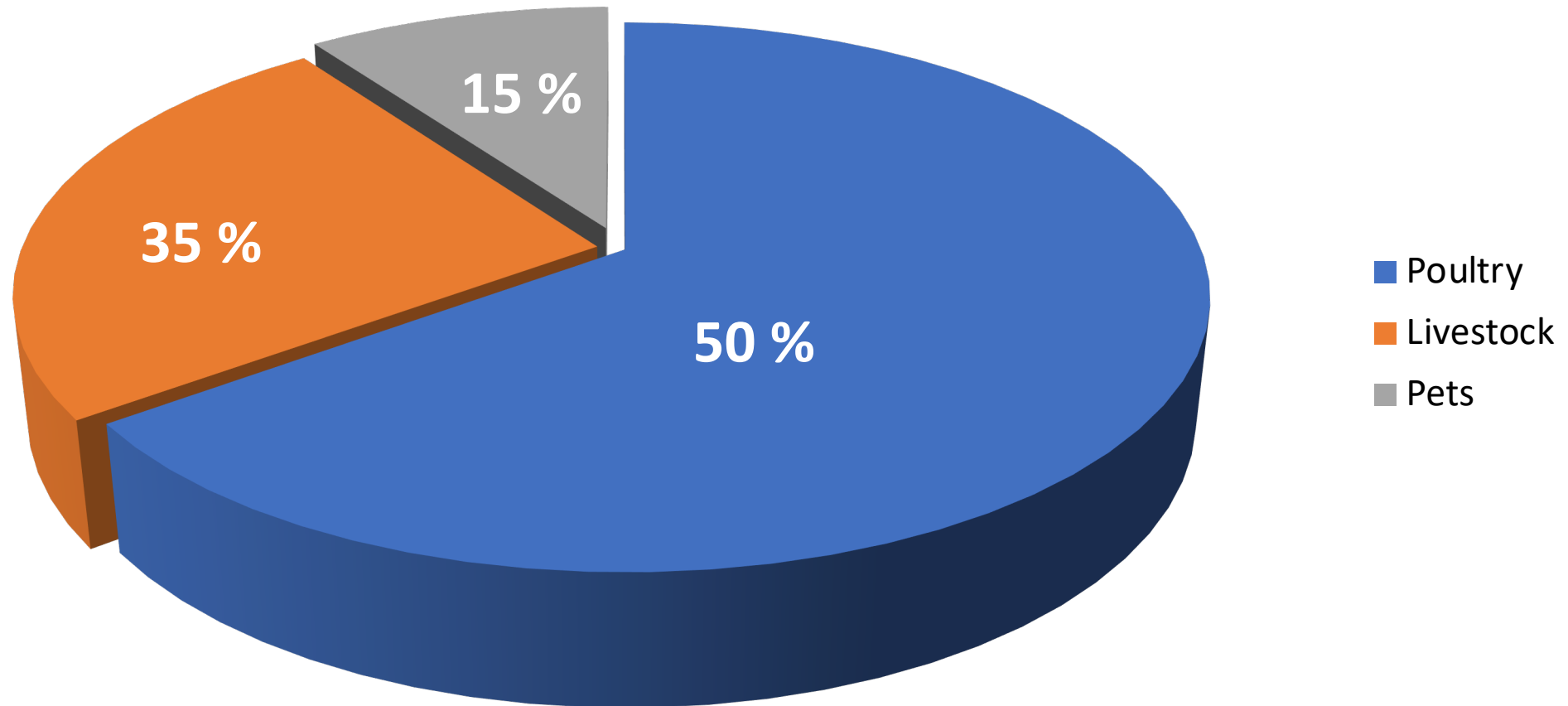


Large Animal

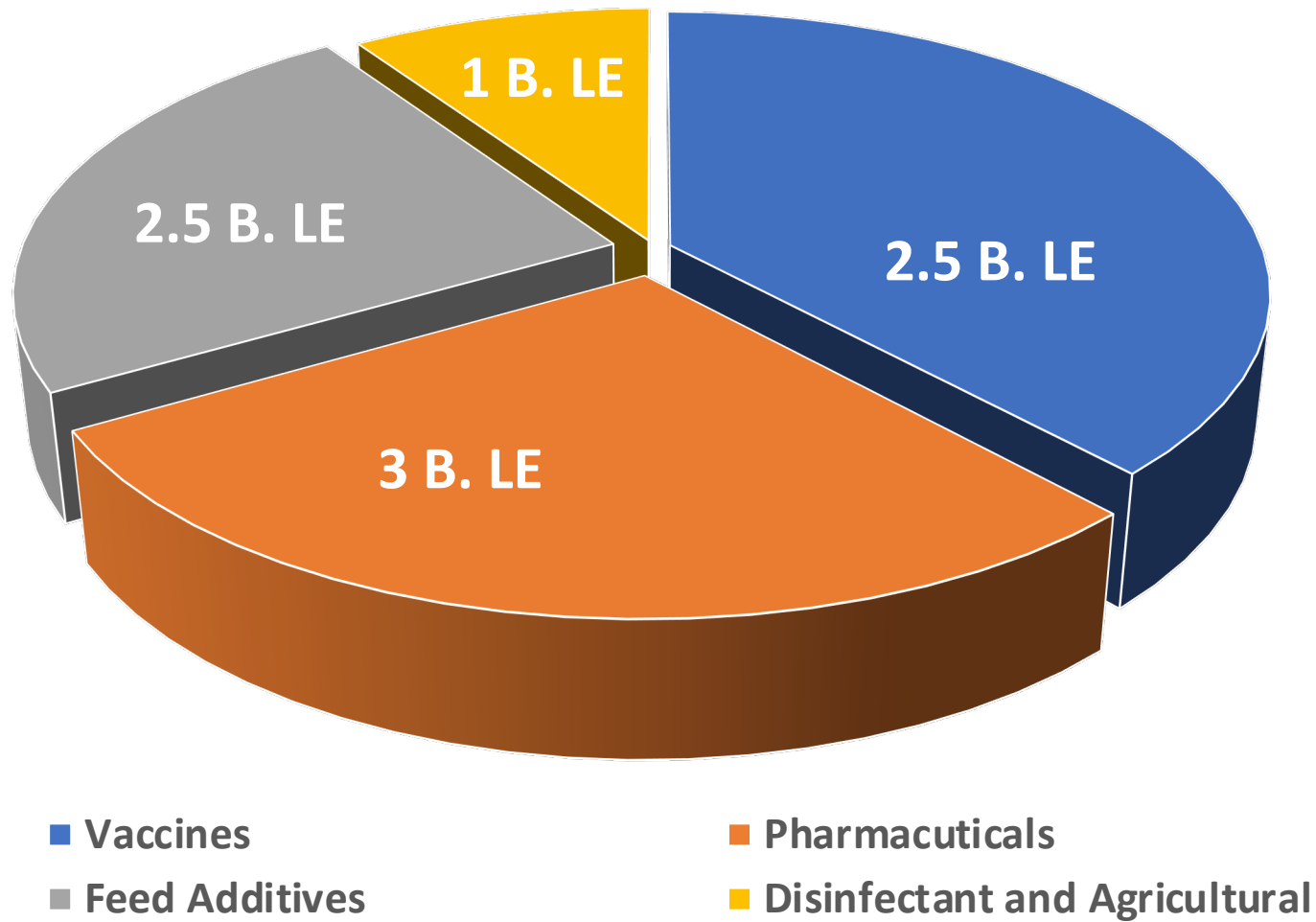


Companion

Market Sector (Values)



Market Values / Main Categories 2022



Poultry Main Therapeutic Area



Pharmaceuticals
Antibiotics
Anticoccidial feed Additives
Anticoccidial Oral solution

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



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
EMA	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/i6_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://aspreregister.basg.gv.at/aspreregister/faces/aspreregister.jspx?_afdf.ctrl-state=16hd8zsrz4_4&_afdfLoop=20307259760246721
Denmark	http://www.produktresume.dk/docshare/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.



AH Target Customers



Consultants



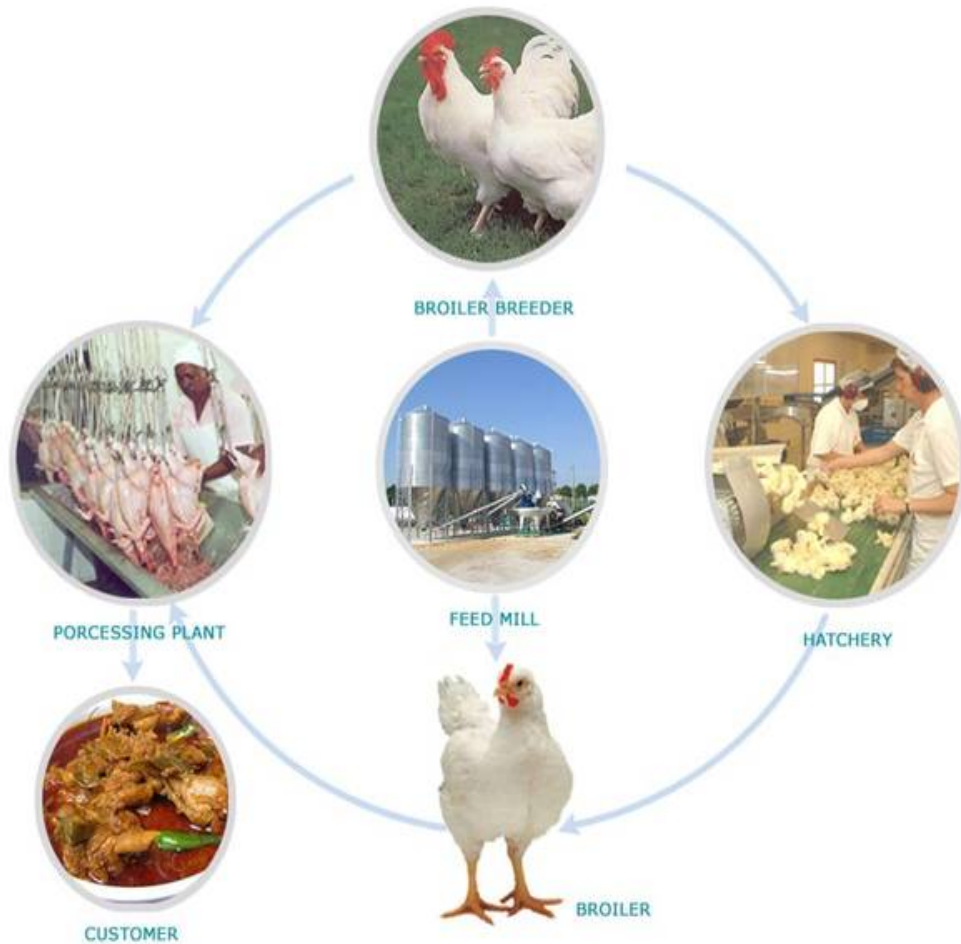
Retailers

Distributers

Feed Mills



AH Target Customers



Key Accounts (Integrators)



End Users

Egyptian Poultry Industry



13 B. / Y



100 B. / LE



3 Million

1.3 B. BR / Y



Raw Material Importation 2022



8.5 MT

60 %



4 MT

30 %

Corn

Soya Oil

↑ 48.6 %

↑ 60 %

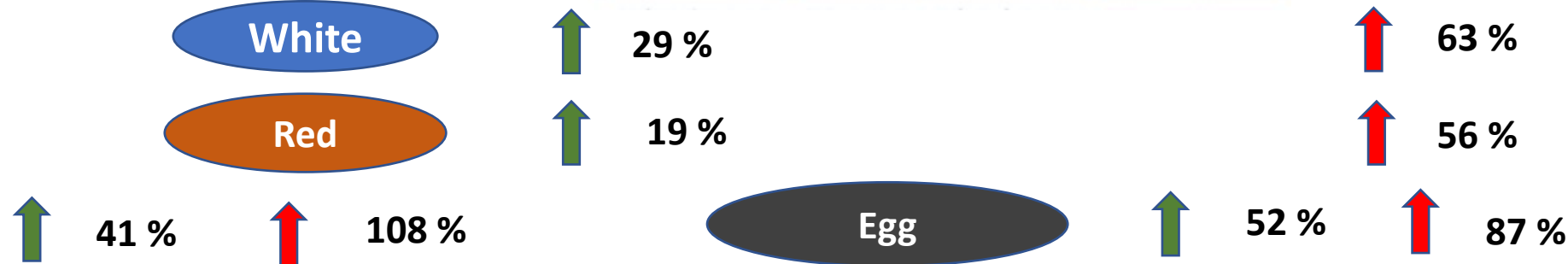
 **137 %**

 **82 %**

اسعار السلع النهائية End prices اليوم 2021/04/ 26			
ملاحظات	متوسط السعر بالجنينة	اسم السلعة	
كيلو مزرعة Kg farm	31	الابيض White	الدواجن Poultry
كيلو للمستهلك Kg consumer	34		
كيلو مزرعة Kg farm	36	الاحمر Red	Poultry
كيلو للمستهلك Kg consumer	40		
Kg	50	القائم Live Cattle	اللاحوم Meat
Kg	110	مذبوح مشطي Beef meat	Meat
طبق 30 مزرعة Package 30	34	الابيض White	البويض Eggs
طبق 30 مستهلك Package 30	39		
طبق 30 مزرعة Package 30	35.5	الاحمر Red	Eggs
طبق 30 مستهلك Package 30	40		
جنية / كتكاتوت Kg	10	ابيض White	الكتكاتوت ODOC
جنية / كتكاتوت Kg	6	ساسو Saco	ODOC
كيلو بقر Kg	8	لين بقرى	الالبان Milk
كيلو جاموسي Kg	13	لين جاموسي	Milk

اسعار السلع النهائية End Products Prices اليوم 2022/04/ 26			
ملاحظات	متوسط السعر بالجنينة	اسم السلعة	
كيلو مزرعة Kg farm	40	الابيض White	الدواجن Poultry
كيلو للمستهلك Kg consumer	45		
كيلو مزرعة Kg farm	43	الاحمر Red	Poultry
كيلو للمستهلك Kg consumer	50		
Kg	75	القائم Live Cattle	اللاحوم Meat
Kg	160	مذبوح مشطي Beef meat	Meat
طبق 30 مزرعة Package 30	48	الابيض White	البويض Eggs
طبق 30 مستهلك Package 30	52		
طبق 30 مزرعة Package 30	54	الاحمر Red	Eggs
طبق 30 مستهلك Package 30	58		
جنية / كتكاتوت Kg	10	ابيض White	الكتكاتوت ODOC
جنية / كتكاتوت Kg	8	ساسو Saco	ODOC
كيلو بقر Kg	8.5	لين بقرى	الالبان Milk
كيلو جاموسي Kg	14	لين جاموسي	Milk

اسعار السلع النهائية End Products Prices اليوم 2023/04/ 26			
ملاحظات	متوسط السعر بالجنينة	اسم السلعة	
كيلو مزرعة Kg farm	64	الابيض White	الدواجن Poultry
كيلو للمستهلك Kg consumer	73		
كيلو مزرعة Kg farm	67	الاحمر Red	Poultry
كيلو للمستهلك Kg consumer	75		
Kg	150	القائم Live Cattle	اللاحوم Meat
Kg	260	مذبوح مشطي Beef meat	Meat
طبق 30 مزرعة Package 30	100	الابيض White	البويض Eggs
طبق 30 مستهلك Package 30	108		
طبق 30 مزرعة Package 30	101	الاحمر Red	Eggs
طبق 30 مستهلك Package 30	109		
جنية / كتكاتوت Kg	12	ابيض White	الكتكاتوت ODOC
جنية / كتكاتوت Kg	9	ساسو Saco	ODOC
كيلو بقر Kg	16.5	لين بقرى	الالبان Milk
كيلو جاموسي Kg	24	لين جاموسي	Milk



مصر لمعلومات و التجارة ميسيت MIST Misr Information Services & Trading	أسعار الاعلاف Feed Prices اليوم 2021/04/26
متوسط السعر Average Price	الاعلاف Feeding
8350	بادي 23% Starter
8250	نامي 21% Grower
8150	ناهي 19% Finisher
7900	بادي نامي Starter Grower
7200	بياض 18% Production
7050	بياض 17% Production
6950	بياض 16% Production
6750	بياض 14% Production

مصر لمعلومات و التجارة ميسيت MIST Misr Information Services & Trading	أسعار الاعلاف Feed Prices اليوم 2022/04/26
متوسط السعر Average Price	الاعلاف Feeding
10,800	بادي 23% Starter
10,700	نامي 21% Grower
10,600	ناهي 19% Finisher
10,300	بادي نامي Starter Grower
10,000	بياض 18% Production
9,650	بياض 17% Production
9,500	بياض 16% Production
9,250	بياض 14% Production

مصر لمعلومات و التجارة ميسيت MIST Misr Information Services & Trading	أسعار الاعلاف Feed Prices اليوم 2023/04/26
متوسط السعر Average Price	الاعلاف Feeding
28,500	بادي 23% Starter
27,700	نامي 21% Grower
27,500	ناهي 19% Finisher
27,300	بادي نامي Starter Grower
23,200	بياض 18% Production
22,950	بياض 17% Production
22,900	بياض 16% Production
22,600	بياض 14% Production

Feed



30 %



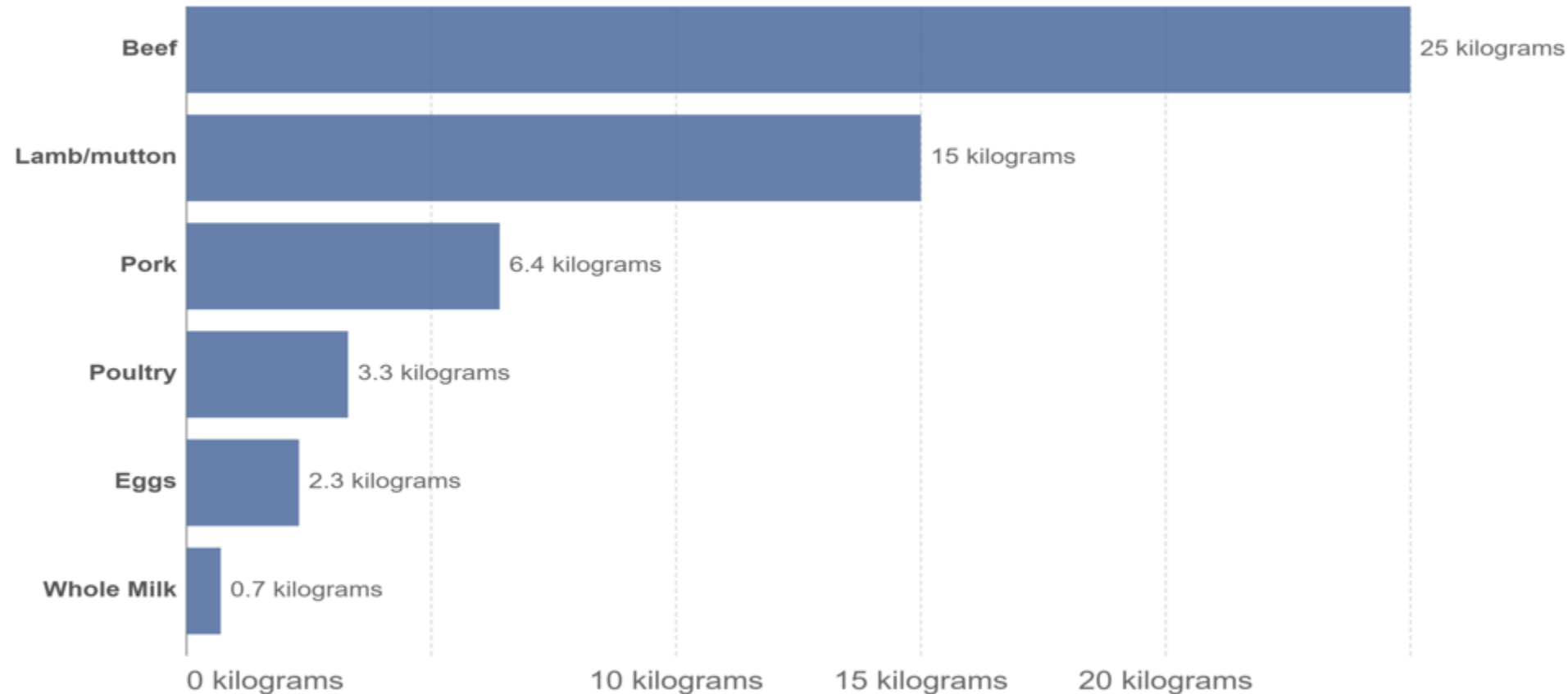
164 %

Feed required to produce 1 kg of meat or dairy product

Feed required to produce one kilogram of meat or dairy product

Quantity of animal feed required to produce one kilogram of meat, egg or milk product. This is measured as dry matter feed in kilograms per kilogram of edible weight output.

Our World
in Data



Source: Alexander et al. (2016). Human appropriation of land for food: the role of diet. Global Environmental Change. OurWorldInData.org/meat-production • CC BY

Broiler Economic

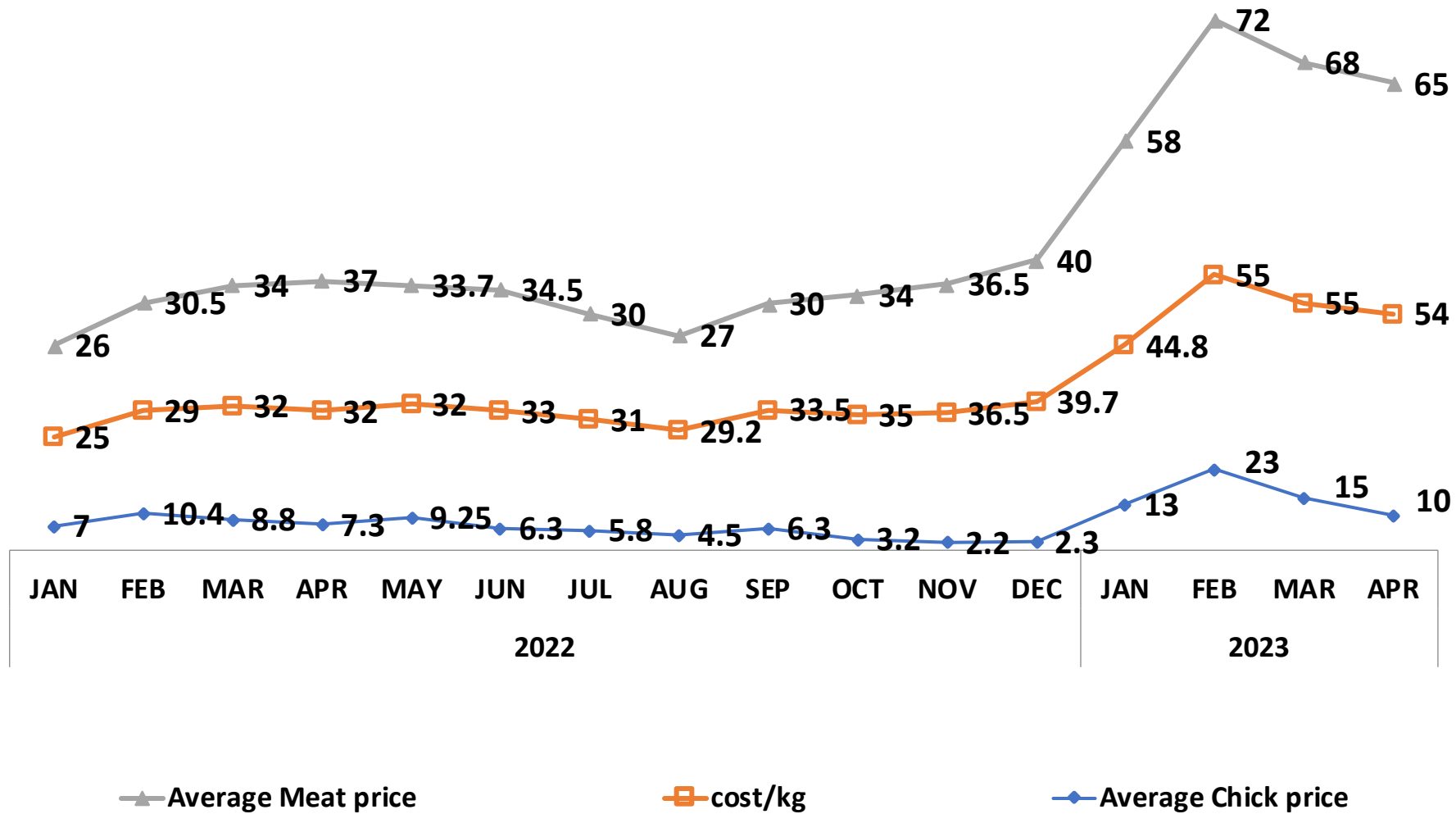


Item	Cost / LE
Feed	90 / 3 Kg 70%
Day old Chick	15
Medication & Vaccines	10
Labor, Electricity & Bed	5
Heat	5
Risk	5
For Production / 2 Kg	130 _ 140 LE / 3.7 \$
1Kg	1.85 \$

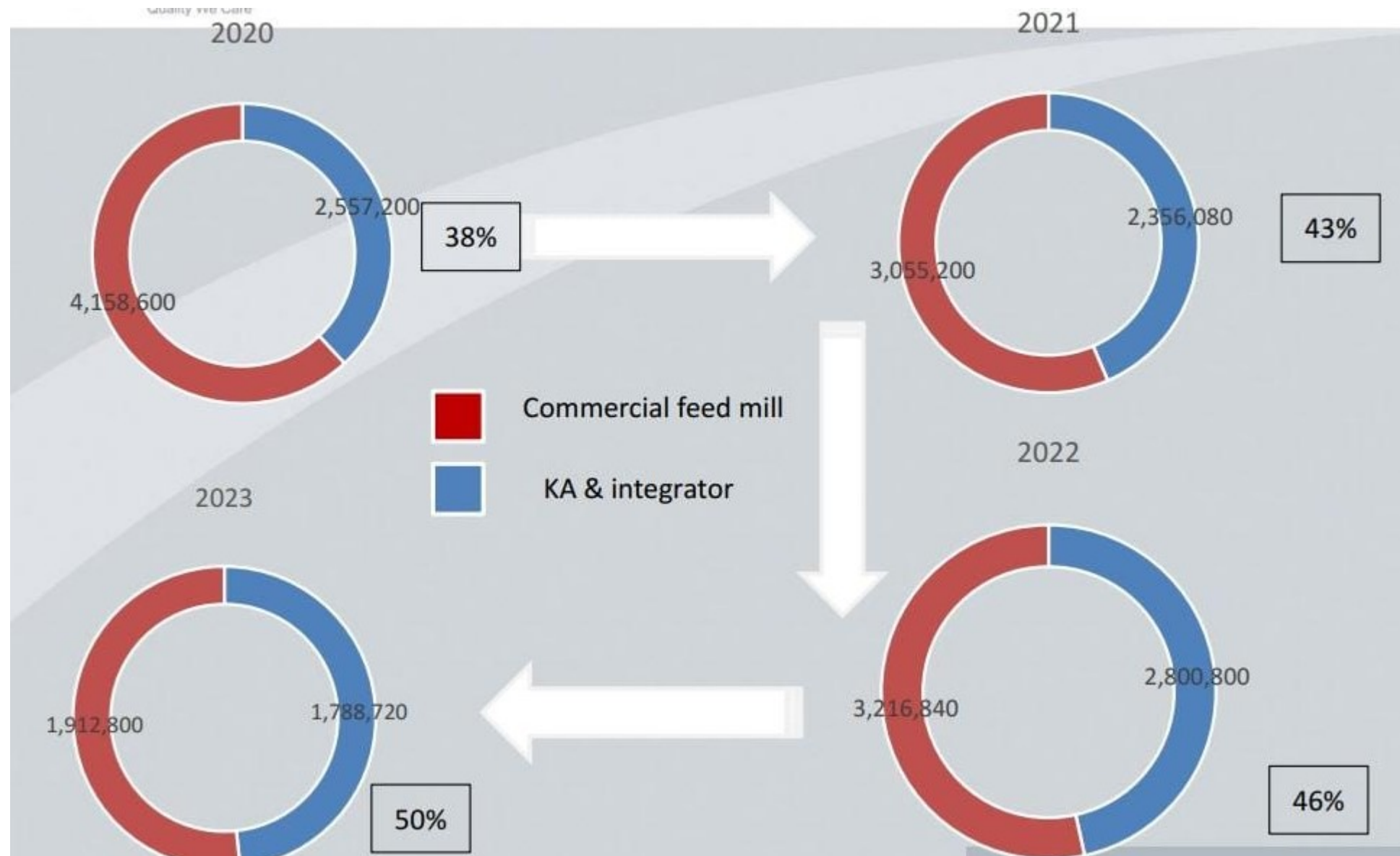
55 LE / Kg
1.57 \$



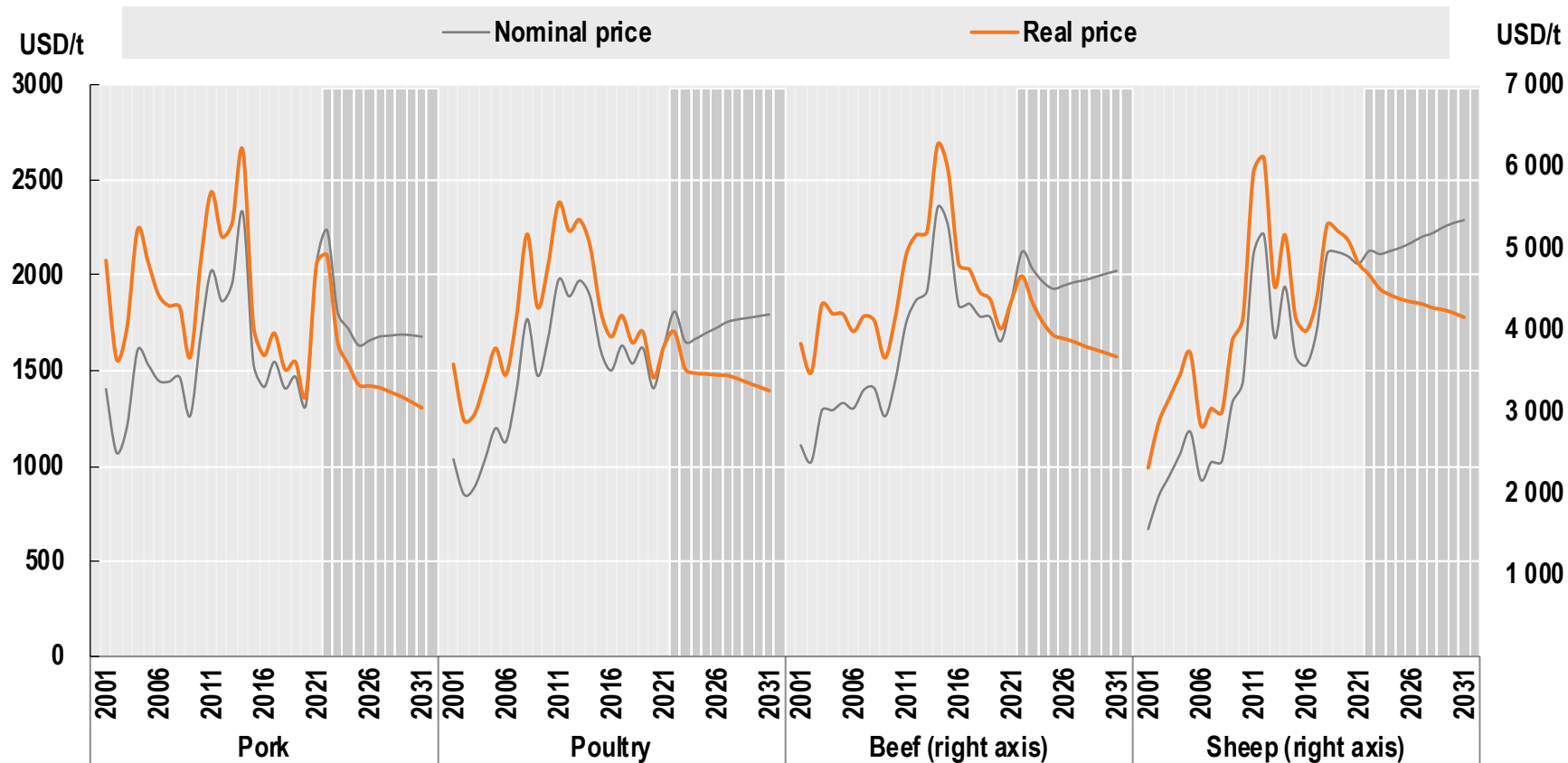
Broiler Economic



Market Reshape 4 Years



World reference prices for meat -rising in nominal, but falling in real terms



Nominal Price
1809.9

Real Price
1703

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

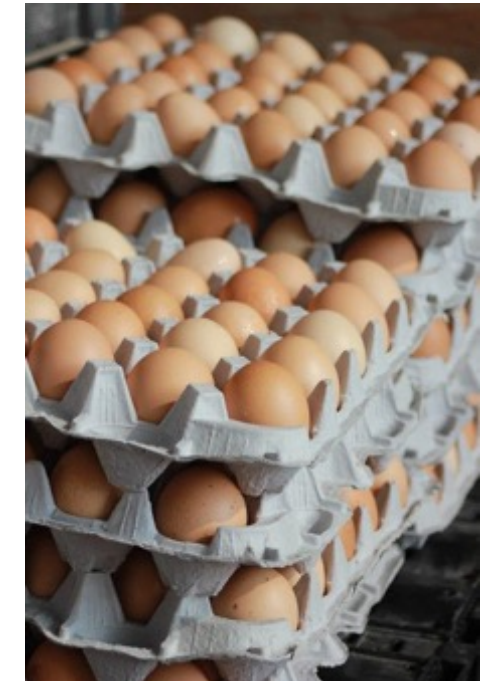
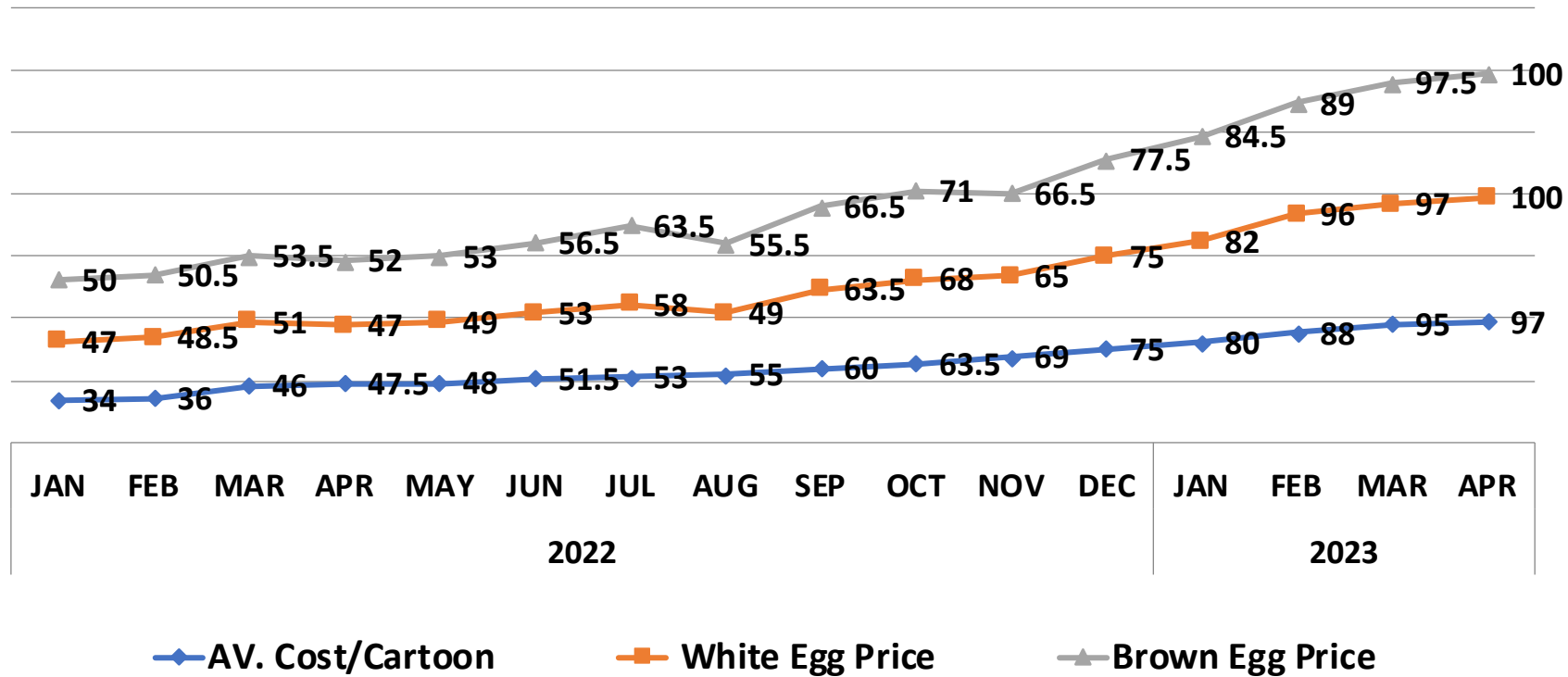
Source: OECD/FAO (2021), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database), <http://dx.doi.org/10.1787/agr-outl-data-en>.

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

Layer Economic



Top Distributers



Top National Manufacturing Companies



Top Feed & Feed additives Manufacturing Companies



Top Feed & Feed additives Manufacturing Companies



KEMIN

DUPONT™



ew | **nutrition**



Improving food & health



Top Vaccine Producing Companies











Top Vaccine Producing Companies



Global Top 20 Animal Health Companies in 2021









Company		Sales (million) 2021 – LC	Sales in 2021 in USD Mill.	Sales (million) 2020 – LC	Change over 2020
1. Zoetis		\$7,776	\$7,776	\$6,675	16.5%
2. Merck Animal Health		\$5,568	\$5,568	\$4,703	18.4%
3. Boehringer Ingelheim Animal Health		€ 4,295	\$5,080	€ 4,121	4.2%
4. Elanco		\$4,765	\$4,765	\$3,273	46.0%
5. IDEXX Laboratories		\$3,026	\$3,026	\$2,532	21.0%
6. Ceva Santé Animale		€1,430e	\$1,691	€1,300e	10.0%
7. Virbac		€ 1,064	\$1,259	€ 934.20	13.9%
8. Phibro Animal Health		\$833.40	\$833.40	\$800.40	4.1%
9. Dechra Pharmaceuticals		£608.0	\$819.10	£515.1	18.0%
10. Huvepharma		€ 631.10	\$746.40	€ 586.10	7.7%



Global Top 20 Animal Health Companies in 2021



Company		Sales (million) 2021 – LC	Sales in 2021 in USD Mill.	Sales (million) 2020 – LC	Change over 2020
11. Vetoquinol		€ 521.30	\$616.50	€ 427.50	21.9%
12. Kyoritsu Seiyaku		¥60,200	\$528.10	¥57,104	5.4%
13. Hipra		€ 379	\$448.20	€ 346	9.5%
14. CAHIC		CNY2,682	\$415.70	CNY2,446	9.6%
15. Nippon Zenyaku Kogyo		¥42,861	\$381.80	¥40,760	5.2%
16. Norbrook Laboratories		£231	\$313.40	£212	9.0%
7. Tianjin Ringpu		CNY1,978	\$306.60	CNY1,962	0.8%
18. Bimeda		\$270.6e	\$270.60	\$246e	10.0%
19. Jinyu Group		CNY1,717	\$266.10	CNY1,518	13.1%
20. Qingdao Yebio Bioengineering		CNY1,671	\$259.00	CNY1,753	-4.7%



Top Animal Health Companies



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At a glance

Supporting our people

100%

The score Cargill has received on the HRC Corporate Equality Index for the last 18 years

2nd

Year in a row we achieved gender pay equity on average among professional-level employees globally*

46%

Women on our Executive Team, nearly reaching gender parity

*After considering appropriate factors expected to influence an individual's pay such as country, job, tenure, pay band and bonus, men and women in professional-level roles performing the same or significantly similar work are on average paid the same. The most recent analysis included all professional-level employees, except those in trading and sales roles on commission or direct-drive incentive plans.

Supporting our business

Announced or completed deals:

Announced a 50-50 joint venture with Continental Grain to acquire U.S. poultry producer Sanderson Farms*

Agreed to purchase the performance-technologies business of U.K.-based Croda, a leading maker of bio-based products

Took a stake in the major Latin American salmon producer Multi X

Bought Aalst, one of Asia's top chocolate companies

Investments to modernize our global network of facilities:

\$300M

Announced a partnership with HELM to build 1,4-butanediol (BDO) facility in North America

\$150M

Opened new plant to make pectin in Brazil

\$100M

Completed upgrades to two cocoa processing locations in West Africa



Opened House of Chocolate in Belgium



Added additional capacity for palm refining in Malaysia, edible oils in India, and the expansion of an animal nutrition innovation center in North America

Supporting our communities

\$163 million distributed to our partners and local communities, including:

\$40 million to support humanitarian relief efforts in Ukraine and neighboring countries

\$20 million in new or expanded partnerships to improve food security and more than **\$11 million** to programs that support farmer livelihoods

\$12 million to drive racial equity in education and nutrition for children of color from low-income families in our hometown. Thanks to the Cargill Foundation, every Minneapolis high school student will receive one-on-one college and career guidance counseling through a partnership with Achieve Twin Cities

And the Cargill Cares Employee Disaster Relief Fund disbursed **\$14 million** across 32 countries to help team members worldwide who were dealing with financial hardship due to COVID-19; and catastrophic, personal or natural disasters including support for our employees in Ukraine as well as their colleagues in other countries who sheltered them

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About Cargill

We connect farmers with markets, customers with ingredients, and families with daily essentials – working across industries – from the foods you eat, to the floors you walk on.

\$165 billion
in revenues

Our global operations



Food Ingredients & Biobased



Animal Nutrition & Health



Protein & Salt



Agricultural Supply Chain



Financial Services & Metals



We are
155k
employees

Operating in
70
countries

Selling to
125
countries

With more than
157
years of
experience

Cargill™



Top Animal Health Companies



Sales

€87.3 billion
(2021: €78.6 billion)

EBIT before special items

€6.9 billion
(2021: €7.8 billion)

ROCE

10.0%
(2021: 13.7%)

Sales by segment and Other

Chemicals

€14.9 billion
(2021: €13.6 billion)

Materials

€18.4 billion
(2021: €15.2 billion)

Industrial Solutions

€10.0 billion
(2021: €8.9 billion)

Surface Technologies

€21.3 billion
(2021: €22.7 billion)

Nutrition & Care

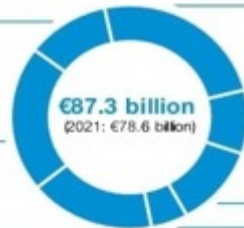
€8.1 billion
(2021: €6.4 billion)

Agricultural Solutions

€10.3 billion
(2021: €8.2 billion)

Other

€4.4 billion
(2021: €3.7 billion)



Sales and employees by region (by location of company)

EUROPE



35.8

Sales (billion €)

67,958

Employees

NORTH AMERICA



24.3

Sales (billion €)

16,036

Employees

ASIA PACIFIC



21.3

Sales (billion €)

20,452

Employees

SOUTH AMERICA, AFRICA, MIDDLE EAST



5.9

Sales (billion €)

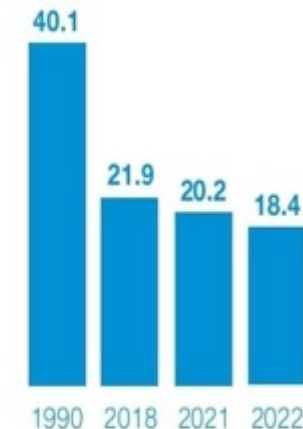
7,035

Employees

BASF
We create chemistry

Greenhouse gas emissions

(million metric tons of CO₂ equivalents)



Capital expenditures (capex)

€4.1 billion
(2021: €3.4 billion)

Research and development expenses

€2.3 billion
(2021: €2.2 billion)

Employees at year-end

111,481
(2021: 111,047)

Personnel expenses

€11.4 billion
(2021: €11.1 billion)

Key figures for the Evonik Group

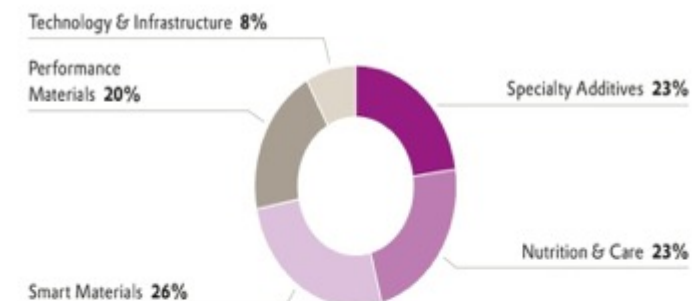


T01

in € million	2018 ^a	2019 ^a	2020	2021	2022
Sales	13,267	13,108	12,199	14,955	18,488
Research & development expenses	437	428	433	464	460
Adjusted EBITDA ^b	2,150	2,153	1,906	2,383	2,490
Adjusted EBITDA margin in %	16.2	16.4	15.6	15.9	13.5
Adjusted EBIT ^c	1,361	1,201	890	1,338	1,350
Income before financial result and income taxes, continuing operations (EBIT)	1,049	1,086	819	1,173	942
ROCE ^d in %	10.2	8.6	6.1	9.0	8.3
Net income	932	2,106	465	746	540
Adjusted net income	1,014	902	640	986	1,054
Earnings per share in €	2.00	4.52	1.00	1.60	1.16
Adjusted earnings per share in €	2.18	1.94	1.37	2.12	2.26
Total assets as of December 31	20,282	22,023	20,897	22,284	21,810
Equity ratio as of December 31 in %	38.6	41.1	38.8	42.1	50.7
Cash flow from operating activities	1,760	1,321	1,727	1,815	1,650
Cash flow from operating activities, continuing operations	1,474	1,352	1,736	1,815	1,650
Cash outflows for investments in intangible assets, property, plant and equipment	948	880	956	865	865
Free cash flow ^e	526	472	780	950	785
Net financial debt as of December 31	-2,907	-2,141	-2,886	-2,857	-3,257
Lost time injury rate (LTI-R) ^f	0.17	0.24	0.16	0.19	0.25
Process safety incident rate (PSI-R) ^g	1.08	1.10	1.45	0.48	0.49
No. of employees as of December 31	32,623	32,423	33,106	33,004	34,029

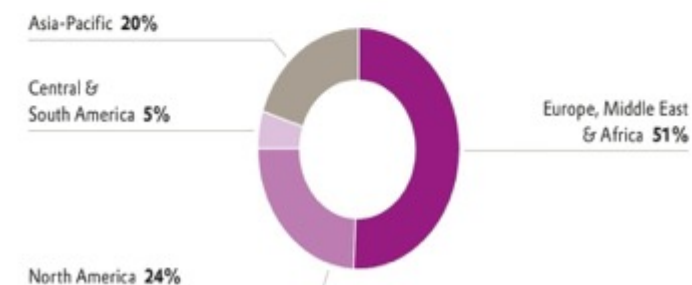
Sales by division

C01



Sales by region^a

C02



^a By location of customer.

Consolidated financial statements

Consolidated income statement

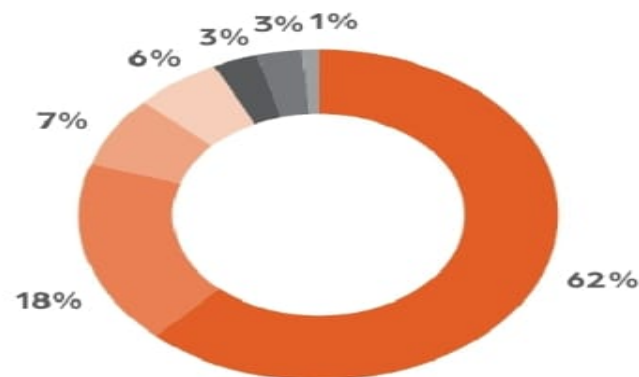
x € million	Notes	2022	2021
Continuing operations			
Net sales	5	8,390	7,269
Cost of sales	5	(5,700)	(4,657)
Gross margin		2,690	2,612
Marketing and sales	5	(1,235)	(1,172)
Research and development	5	(295)	(274)
General and administrative	5	(534)	(475)
Other operating income	5	107	82
Other operating expense	5	(51)	(62)
Operating profit		682	711
Financial income	6	71	24
Financial expense	6	(159)	(124)
Profit before income tax expense		594	611
Income tax expense	7	(124)	(123)
Share of the profit of associates and joint ventures	10	12	16
Other results related to associates and joint ventures	10	(7)	326
Net profit from continuing operations		475	830
Net profit from discontinued operations	3	1,240	850
Net profit for the year		1,715	1,680
Of which:			
- Attributable to non-controlling interests	17	15	4
- Dividend on Cumulative Preference Shares	16	6	6
- Available to holders of ordinary shares	16	1,694	1,670
Earnings per share (EPS) total (in €):			
- Net basic EPS	2	9.80	9.68
- Net diluted EPS		9.77	9.63
Earnings per share (EPS) continuing operations (in €):			
- Net basic EPS	2	2.64	4.76
- Net diluted EPS		2.63	4.74



zoetis

2022 Financial Highlights

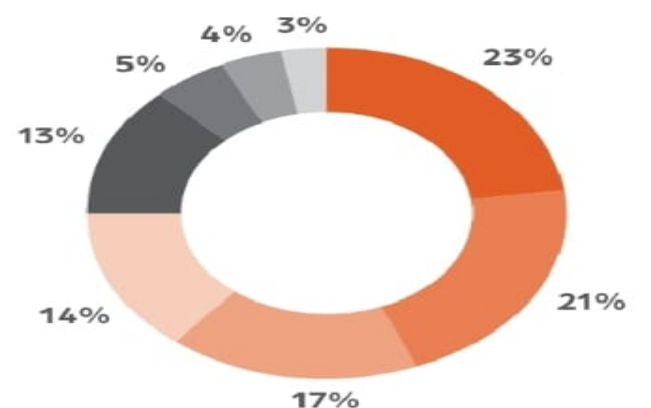
Revenue by Species*



■ Dogs and Cats¹ 62%
■ Cattle² 18%
■ Swine² 7%
■ Poultry² 6%
■ Horses¹ 3%
■ Fish² 3%
■ Sheep and Other² 1%

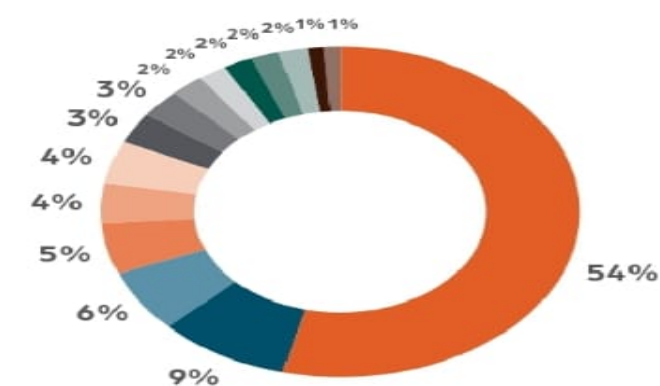
¹ Companion Animal 65%
² Livestock 35%

Revenue by Product Category*



■ Parasiticides 23%
■ Vaccines 21%
■ Dermatology 17%
■ Anti-Infectives 14%
■ Other Pharmaceuticals 13%
■ Medicated Feed Additives 5%
■ Animal Health Diagnostics 4%
■ Other Non-Pharmaceuticals 3%

Revenue by Markets*



■ United States 54%
■ China 5%
■ Brazil 4%
■ Australia 4%
■ Canada 3%
■ United Kingdom 3%
■ Germany 2%
■ Japan 2%
■ Chile 2%
■ Mexico 2%
■ France 2%
■ Spain 1%
■ Italy 1%
■ Other Emerging Markets 9%
■ Other Developed Markets 6%

Top Animal Health Companies



Revenue by Product Concentration



■ Top Ten Product Lines 49%
(Top Five make up 37%)
■ All Other 51%

Revenue Growth and Adjusted EBIT Margin



○ Adjusted EBIT Margin**

* Revenue charts by species, product category and market exclude revenues associated with Client Supply Services and Human Health, which represented 1% of total 2022 revenue.

** Adjusted EBIT margin (a non-GAAP financial measure) is defined as adjusted net income attributable to Zoetis excluding (i) interest expense and interest income and (ii) income taxes (all as included in adjusted net income), expressed as a percentage of revenue.

† Adjusted net income and its components and adjusted diluted earnings per share (non-GAAP financial measures) are defined as reported net income attributable to Zoetis and reported diluted earnings per share, excluding purchase accounting adjustments, acquisition-related costs and certain significant items.

‡ Represents operational growth (a non-GAAP financial measure), which is defined as growth excluding the impact of foreign exchange. Reported revenue growth, including the impact of foreign exchange, was 7% for 2020, 16% for 2021, and 4% for 2022.

§ Zoetis Market Research, Dec. 2022.



\$Millions (except per share data)

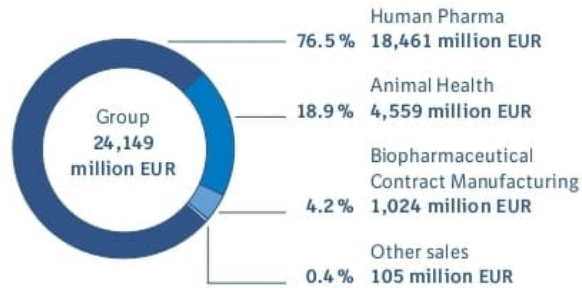
	2020	2021	2022
Revenue	\$ 6,675	\$ 7,776	\$ 8,080
Net Income Attributable to Zoetis	\$ 1,638	\$ 2,037	\$ 2,114
Adjusted Net Income Attributable to Zoetis [†]	\$ 1,844	\$ 2,240	\$ 2,297
Diluted Earnings Per Share	\$ 3.42	\$ 4.27	\$ 4.49
Adjusted Diluted Earnings Per Share [†]	\$ 3.85	\$ 4.70	\$ 4.88
Net Cash Provided by Operating Activities	\$ 2,126	\$ 2,213	\$ 1,912
Research & Development Expense	\$ 463	\$ 508	\$ 539



Top Animal Health Companies



Net sales by business



Net sales by businesses (in million EUR)

	2022	2021	Change	currency-adjusted
Human Pharma	18,461	15,294	+ 20.7 %	+ 13.6 %
Animal Health	4,559	4,295	+ 6.1 %	- 0.5 %
Biopharmaceutical Contract Manufacturing	1,024	917	+ 11.7 %	+ 11.1 %
Other sales	105	112	- 6.3 %	- 7.9 %

Animal Health: Net sales by region (in million EUR)

	2022	2021	Change	currency-adjusted
USA	2,016	1,819	+ 10.8 %	- 1.2 %
EUCAN	1,218	1,179	+ 3.3 %	+ 1.3 %
ALAMEA	1,035	955	+ 8.4 %	+ 5.9 %
TCM	290	342	- 15.2 %	- 19.4 %

Animal Health: Net sales top 4 products (in million EUR)

	2022	2021	Change	currency-adjusted
NEXGARD*	1,064	916	+ 16.2 %	+ 8.0 %
FRONTLINE*	401	418	- 4.1 %	- 10.1 %
HEARTGARD*	323	307	+ 5.2 %	- 5.2 %
INGELVAC CIRCOFLEX* / FLEXCOMBO*	236	253	- 6.7 %	- 9.7 %

Our top-selling animal health medicines come from the pet business: the antiparasitic NEXGARD* recorded sales growth of + 16.2% (currency-adjusted + 8.0%) to 1,064 million EUR in 2022 and therefore remained the highest-selling product family in the portfolio of the Animal Health division in the 2022 financial year. With the growth products NEXGARD* SPECTRA and NEXGARD* COMBO, the NEXGARD* family became one of the top-selling brands in the animal health industry in 2022 and was able to reach the milestone of more than one billion EUR in sales.



Top Animal Health Companies



For the Year Ended June 30	Segments			Change				Percentage of total		
	2022	2021	2020	2022 / 2021	2021 / 2020			2022	2021	2020
	(\$ in millions)									
Animal Health	\$ 607	\$ 546	\$ 527	\$ 61	11 %	\$ 19	4 %	64 %	65 %	66 %
Mineral Nutrition	260	221	214	39	18 %	6	3 %	28 %	26 %	27 %
Performance Products	76	67	59	9	13 %	8	14 %	8 %	8 %	7 %
Total	<u>\$ 942</u>	<u>\$ 833</u>	<u>\$ 800</u>	\$ 109	13 %	\$ 33	4 %			

For the Year Ended June 30	Species			Change				Percentage of total		
	2022	2021	2020	2022 / 2021	2021 / 2020			2022	2021	2020
	(\$ in millions)									
Poultry	\$ 319	\$ 297	\$ 301	\$ 22	7 %	\$ (4)	(1)%	34 %	36 %	38 %
Dairy	186	169	163	17	10 %	6	4 %	20 %	20 %	20 %
Cattle	127	106	94	21	20 %	12	13 %	13 %	13 %	12 %
Swine	80	79	81	1	1 %	(2)	(2)%	8 %	9 %	10 %
Other ⁽¹⁾	230	182	161	48	26 %	21	13 %	24 %	22 %	20 %
Total	<u>\$ 942</u>	<u>\$ 833</u>	<u>\$ 800</u>	\$ 109	13 %	\$ 33	4 %			

For the Year Ended June 30	Regions ⁽²⁾			Change				Percentage of total		
	2022	2021	2020	2022 / 2021	2021 / 2020			2022	2021	2020
	(\$ in millions)									
United States	\$ 562	\$ 495	\$ 472	\$ 67	13 %	\$ 23	5 %	60 %	59 %	59 %
Latin America and Canada	191	166	159	25	15 %	7	4 %	20 %	20 %	20 %
Europe, Middle East and Africa	122	114	112	8	7 %	2	2 %	13 %	14 %	14 %
Asia Pacific	67	58	57	9	15 %	1	2 %	7 %	7 %	7 %
Total	<u>\$ 942</u>	<u>\$ 833</u>	<u>\$ 800</u>	\$ 109	13 %	\$ 33	4 %			

Animal Health net sales by product group and regions were:

For the Years Ended June 30	Product Groups			Change				Percentage of total		
	2022	2021	2020	2022 / 2021	2021 / 2020			2022	2021	2020
	(\$ in millions)									
MFAs and other	\$ 362	\$ 330	\$ 322	\$ 32	10 %	\$ 8	2 %	60 %	60 %	61 %
Nutritional specialties	157	143	129	14	10 %	13	10 %	26 %	26 %	25 %
Vaccines	88	73	75	15	21 %	(2)	(3)%	15 %	13 %	14 %
Animal Health	<u>\$ 607</u>	<u>\$ 546</u>	<u>\$ 527</u>	\$ 61	11 %	\$ 19	4 %			

For the Years Ended June 30	Regions ⁽¹⁾			Change				Percentage of total		
	2022	2021	2020	2022 / 2021	2021 / 2020			2022	2021	2020
	(\$ in millions)									
United States	\$ 248	\$ 227	\$ 214	\$ 21	9 %	\$ 13	6 %	41 %	42 %	41 %
Latin America and Canada	175	151	148	24	16 %	3	2 %	29 %	28 %	28 %
Europe, Middle East and Africa	120	110	109	10	9 %	1	1 %	20 %	20 %	21 %
Asia Pacific	64	58	56	6	10 %	2	4 %	11 %	11 %	11 %
Total	<u>\$ 607</u>	<u>\$ 546</u>	<u>\$ 527</u>	\$ 61	11 %	\$ 19	4 %			



Vetoquinol's key figures for 2022:

2022 turnover:
€ 540 million

Essential*
products turnover:
€ 304 million

Breakdown of
group turnover by
activity:

Pets **68%**
Livestock **32%**

* Vetoquinol key products.



€540m
Group sales
+3.6%
(reported data)



€304m
Essentials sales
+4.5%
(reported data)



€118m
EBITDA
21.9% of sales



€63m
Cash flow generation

In Q4 2022, Vetoquinol recorded sales of €135m, up 0.9% on a reported basis and down 2.4% at constant exchange rates compared to the same period last year. The strategic territories of the Americas and Asia/Pacific grew by 9.7% and 9.5% respectively on a reported basis; Europe was down 8.2%. Sales of Essential products were stable in the last three months of 2022.

The Group's cash position at the end of December 2022 is positive, reflecting an improvement in working capital in the second half of the year.

€m	2022	2021	Change (reported data)	Change (constant exchange rates)
Q1 Sales	135	128	+5.5%	+2.2%
Q2 Sales	136	127	+6.7%	+1.8%
Q3 Sales	134	132	+1.4%	-4.5%
Q4 Sales	135	134	+0.9%	-2.4%
Aggregate 12-month sales*	540	521	+3.6%	-0.8%

* non-audited data



Top Animal Health Companies



Product Sales

Total Company sales, including sales of the Company's top pharmaceutical products, as well as sales of animal health products, were as follows:

(\$ in millions)	2022	2021	2020
Total Sales	\$ 59,283	\$ 48,704	\$ 41,518
Pharmaceutical	52,005	42,754	36,610
Keytruda	20,937	17,186	14,380
Gardasil/Gardasil 9	6,897	5,673	3,938
Lagevrio	5,684	952	—
Januvia/Janumet	4,513	5,288	5,276
ProQuad/M-M-R II/Varivax	2,241	2,135	1,878
Bridion	1,685	1,532	1,198
Alliance revenue - Lynparza ⁽¹⁾	1,116	989	725
Alliance revenue - Lenvima ⁽¹⁾	876	704	580
RotaTeq	783	807	797
Simponi	706	825	838
Animal Health	5,550	5,568	4,703
Livestock	3,300	3,295	2,939
Companion Animals	2,250	2,273	1,764
Other Revenues ⁽²⁾	1,728	382	205

⁽¹⁾ Alliance revenue represents Merck's share of profits, which are product sales net of cost of sales and commercialization costs.

⁽²⁾ Other revenues are primarily comprised of miscellaneous corporate revenues, including revenue hedging activities, as well as revenue from third-party manufacturing arrangements.



Elanco's commitment to our Innovation, Portfolio and Productivity (IPP) strategy



Faced with a challenged macro-environmental landscape, we remained focused, executing with intention on our Innovation, Portfolio and Productivity (IPP) strategy.

We significantly advanced our innovation pipeline, expanded our portfolio, drove productivity gains across all areas of the company and positioned the business for acceleration in 2024 and beyond.



- 1** Generated revenue of \$4.4 billion, with Adjusted EBITDA of \$1.017 billion and Adjusted EPS of \$1.11 for the full year 2022.
- 2** Expanded Adjusted EBITDA margin by 80 basis points in 2022.
- 3** Delivered approximately \$360 million in cumulative Adjusted EBITDA synergies in 2022 from the Bayer acquisition, exceeding our expectations.
- 4** Reduced gross debt by approximately \$500 million in 2022, ending the year with net leverage of 5.5x. Debt paydown remains our key capital allocation priority.
- 5** Gained eight new product approvals in major markets, with differentiated feline innovations like Zorbium, Advantage XD and Bexacat, and important geographic expansions like Credelio for dogs in China.
- 6** Contributed \$133 million in revenue from innovation in 2022, an incremental \$61 million year over year.
- 7** See a path to U.S. approval for six products with blockbuster potential by the first half of 2024.

Top Animal Health Companies



Companion Animal Group

The following table presents revenue by product and service category for CAG: .

Net Revenue (dollars in thousands)	For the Years Ended December 31,		Dollar Change	Reported Revenue Growth ⁽¹⁾	Percentage Change from Currency	Percentage Change from Acquisitions	Organic Revenue Growth ⁽¹⁾
	2022	2021					
CAG Diagnostics recurring revenue:	\$ 2,660,280	\$ 2,534,562	\$ 125,718	5.0%	(3.4%)	0.1%	8.2%
<i>IDEXX VetLab consumables</i>	1,057,236	1,006,781	50,455	5.0%	(4.3%)	—	9.3%
<i>Rapid assay products</i>	313,667	296,852	16,815	5.7%	(1.7%)	—	7.3%
<i>Reference laboratory diagnostic and consulting services</i>	1,178,113	1,123,656	54,457	4.8%	(2.9%)	0.3%	7.4%
<i>CAG Diagnostics services and accessories</i>	111,264	107,273	3,991	3.7%	(4.5%)	—	8.2%
CAG Diagnostics capital - instruments	147,326	149,140	(1,814)	(1.2%)	(4.7%)	—	3.5%
Veterinary software, services and diagnostic imaging systems	251,187	206,258	44,929	21.8%	(1.0%)	7.9%	14.9%
Net CAG revenue	<u>\$ 3,058,793</u>	<u>\$ 2,889,960</u>	<u>\$ 168,833</u>	5.8%	(3.3%)	0.7%	8.4%

(1) Reported revenue growth and organic revenue growth may not recalculate due to rounding.



Top Animal Health Companies



Income statement

in € thousand	Notes	2022	2021	Variation
Revenue from ordinary activities	A21	1,216,187	1,063,965	14.3%
Purchases consumed ²	A22	-421,192	-359,137	
External costs ²	A23	-235,527	-195,442	
Personnel costs		-321,907	-291,130	
Taxes and duties		-14,188	-14,249	
Depreciations and provisions	A24	-42,610	-36,358	
Other operating income and expenses	A25	5,796	5,522	
Current operating profit before depreciation of assets arising from acquisitions¹		186,559	173,171	7.7%
Depreciations of intangible assets arising from acquisitions	A24	-3,743	-4,311	
Operating profit from ordinary activities		182,816	168,861	8.3%
Other non-current income and expenses	A26	-3,296	-1,235	
Operating result		179,519	167,626	7.1%
Financial income and expenses	A27	-3,077	-8,519	
Profit before tax		176,443	159,107	10.9%
Income tax	A28	-55,649	-43,612	
Share from companies' result accounted for by the equity method	A7	525	196	
Result for the period		121,319	115,691	4.9%
attributable to the owners of the parent company		121,967	113,162	7.8%
attributable to the non-controlling interests		-648	2,529	-125.6%
Profit attributable to the owners of the parent company, per share	A30	€14.44	€13.40	-16.9%
Profit attributable to the owners of the parent company, diluted per share	A30	€14.43	€13.38	-16.9%

¹in order to provide a clearer picture of our economic performance, we isolate the impact of the allowance for depreciations of intangible assets resulting from acquisitions. This turned out to have a material impact considering the latest external growth that took place through acquisitions. Therefore, our income statement shows a current operating profit, before depreciation of assets arising from acquisitions (see note A24)

²in order to disclose a more meaningful information, we have reclassified production subcontracting expenses from the "external costs" line to the "purchases consumed" line in the income statement. The reclassification between these two components of profit amounts to €8,023 k for the 2021 financial year



Top Animal Health Companies



As Reported	2022 Existing £m	2022 Acquisition £m	2022 Consolidated £m	2021 £m	Growth at AER Consolidated %	Growth at CER Consolidated %
Revenue	669.4	12.4	681.8	608.0	12.1%	13.8%
Gross profit	377.0	7.8	384.8	345.9	11.2%	12.9%
Gross profit %	56.3%	62.9%	56.4%	56.9%	(50bps)	(40bps)
Operating profit	93.7	1.8	95.5	84.0	13.7%	16.2%
EBIT %	14.0%	14.5%	14.0%	13.8%	20bps	30bps
Profit before tax	75.8	1.8	77.6	74.0	4.9%	7.8%
Diluted EPS (p)			53.40	51.03	4.6%	7.5%

	2022 £m	2021 £m	% Change at AER	% Change at CER
CAP	508.4	442.6	14.9%	16.0%
Equine	49.5	44.8	10.5%	12.1%
FAP	78.8	77.0	2.3%	6.0%
Subtotal Pharmaceutical	636.7	564.4	12.8%	14.3%
Nutrition	35.0	31.7	10.4%	15.1%
Other	10.1	11.9	(15.1%)	(12.6%)
Total	681.8	608.0	12.1%	13.8%

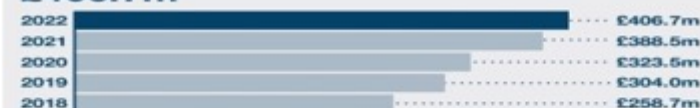
Revenue by Product Category (at AER)



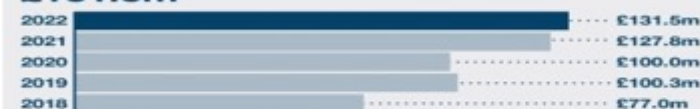
● CAP	74.6%
● Equine	7.2%
● FAP	11.6%
● Nutrition	5.1%
● Other	1.5%

Financial Review

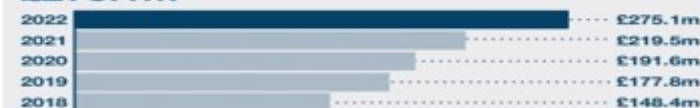
EU Pharmaceuticals Revenue £406.7m



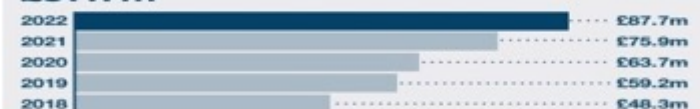
EU Pharmaceuticals Underlying Operating Profit £131.5m



NA Pharmaceuticals Revenue £275.1m



NA Pharmaceuticals Underlying Operating Profit £87.7m



Companies to Watch Out for in 2023



Alivira Animal Health – an API as well as formulations business almost exclusively focused on Food Animals (especially in formulations) is inching towards USD 200 Million mark. While the company, based out of India follows a different fiscal year (April – March), 2022 could see it climbing the ranks. Its been a business built largely via acquisitions and currently owned by The Carlyle Group – may yet again surprise with another acquisition in 2023

PetIQ – an interesting company which derives its business through retail of other companies' products, has made the right moves by acquiring few brands from Perrigo and combines a few of its own differentiated generics to move up the value chain.

Ouro Fino Saude Animale – a Brazilian company is making a huge comeback having recorded 24% growth in 2021 and hungry for some more

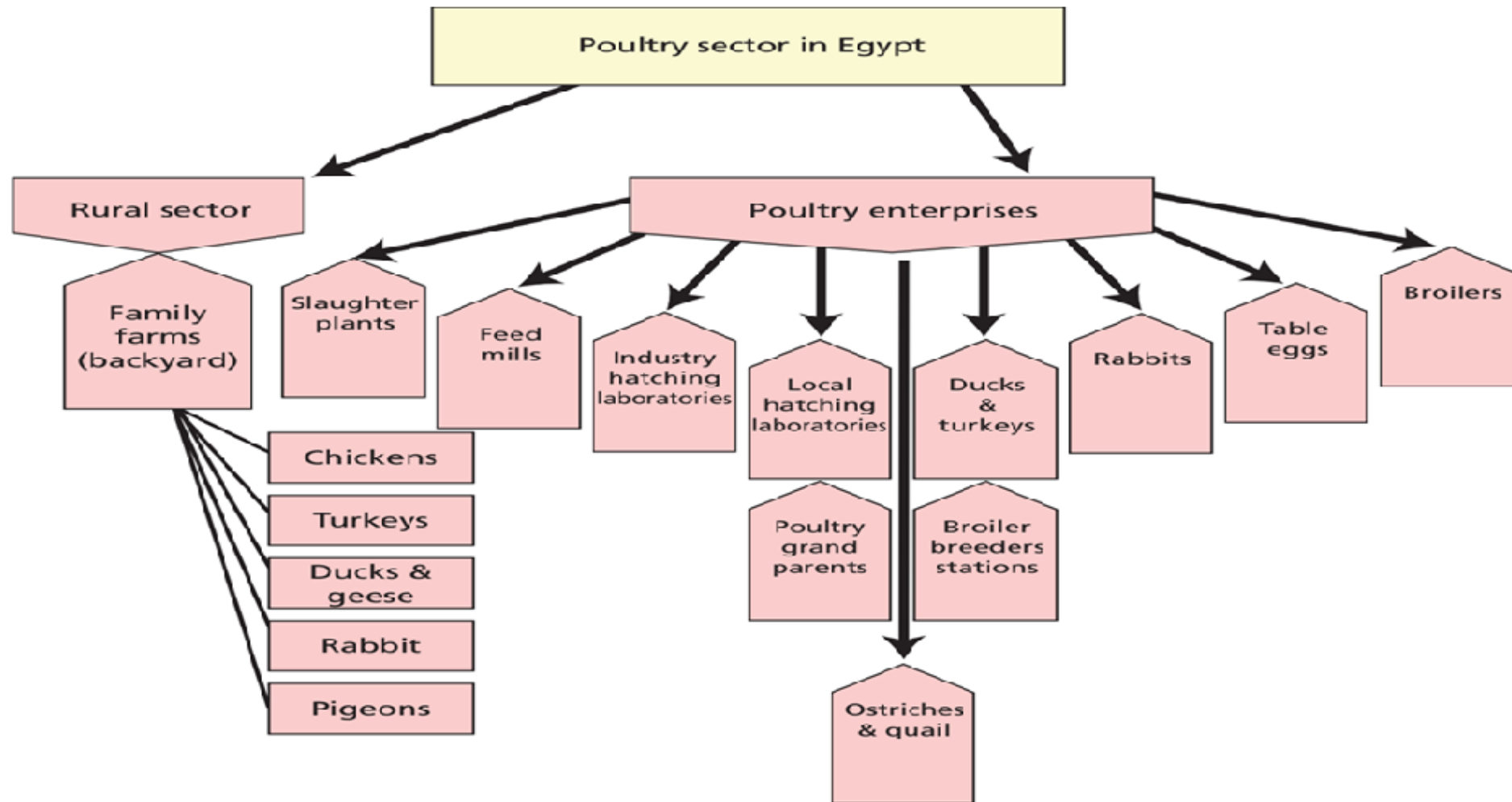
Argentina's poultry vaccines manufacturer (also other formulations) – **Biogenesis Bago** too could soon be in league of USD 200 Million Turnover companies

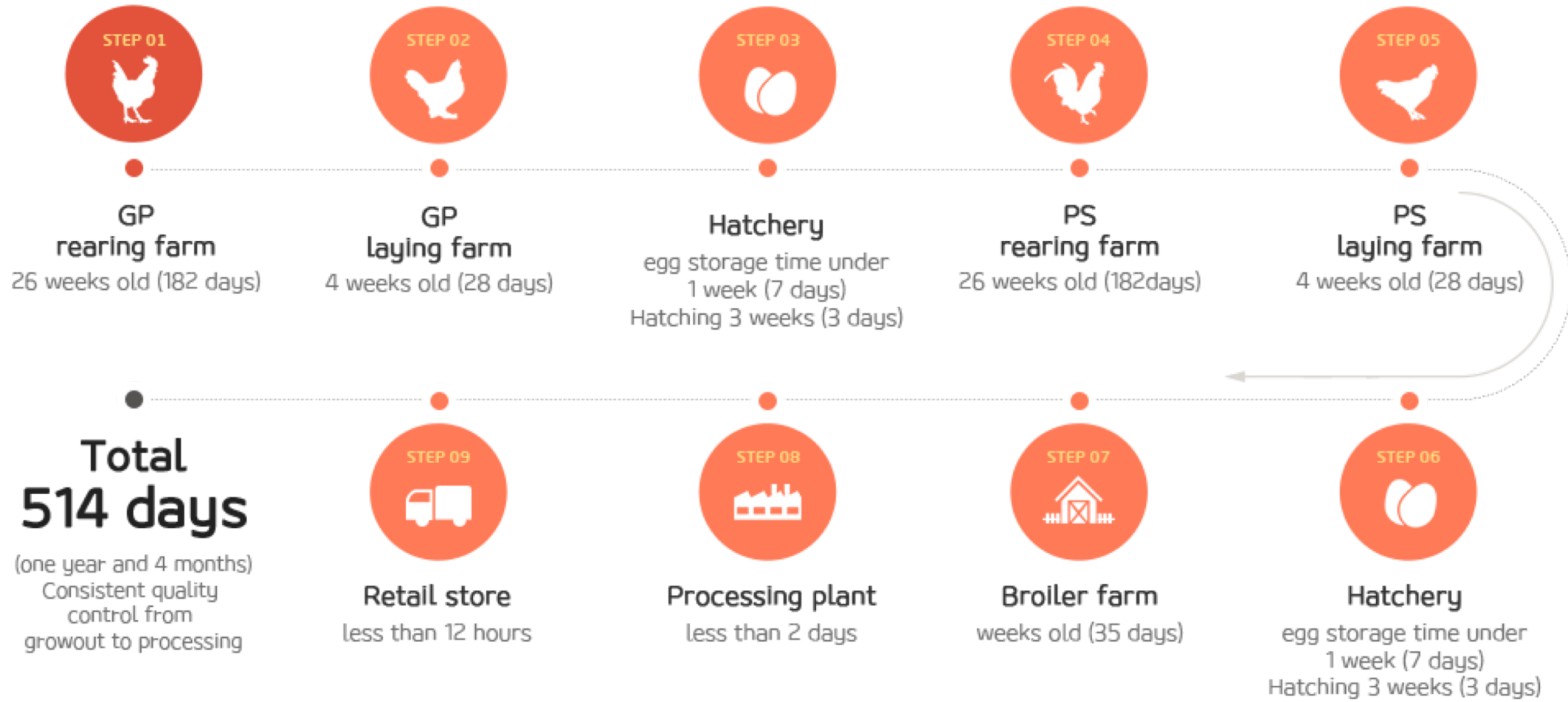
Heska – a Companion Animals Diagnostics and Digital Imaging solutions company with certain unique supplements for Allergy testing and Allergy Management may again surprise in 2022 with its stupendous growth rates of the past.





Egyptian Poultry industry



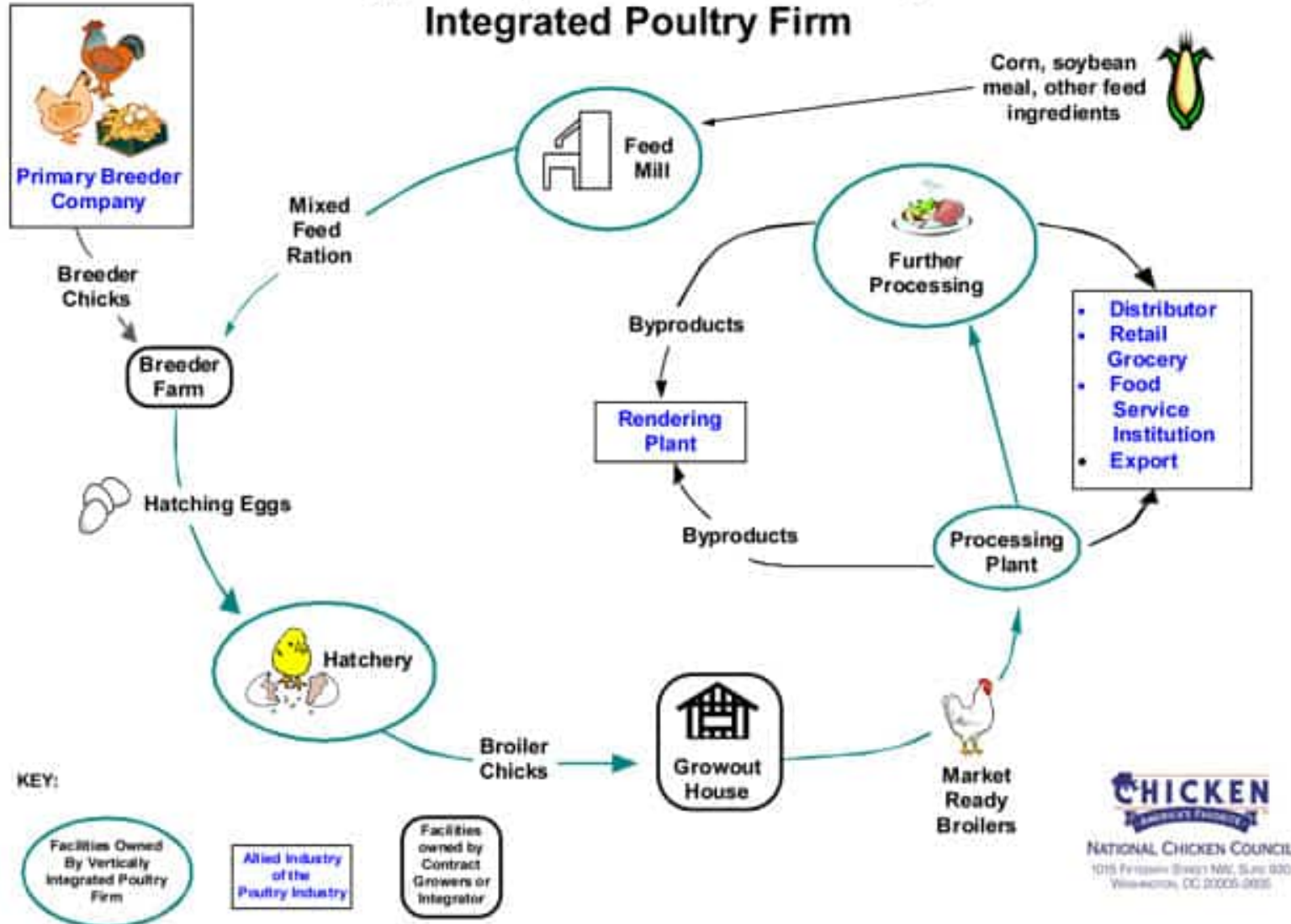


? **PS means** chicken producing eggs for production of chicks.

? **GP means** upper level breeder that delivers PS.



Typical Operation of a Vertically Integrated Poultry Firm



Egyptian Poultry Industry :Current Situation 2022 Population

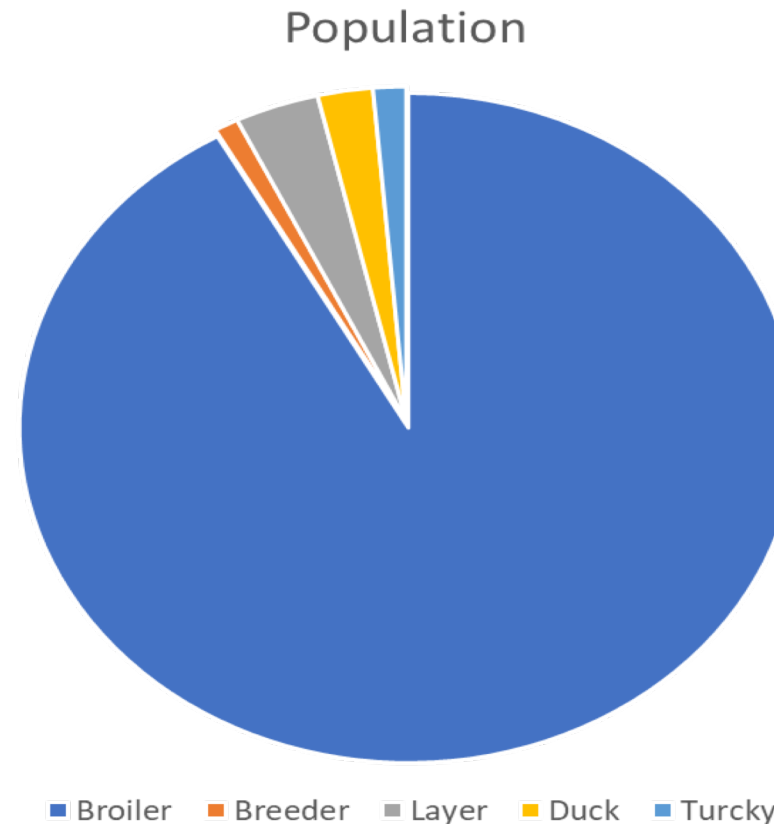
Broiler 1100 - 1300 m.

Breeder 9 GOVS* - 14 m.

Layer 38 GOVS* - 42 m

Duck 35 m. GOVS* / 75 m

Turkey 15 m.



**300 Million Birds
reared as a backyard
chickens**

Egypt's annual consumption of poultry is around 1,2 billion birds, the equivalent of around 1125 million tons of poultry meat.
Source : OECD- FAO - OIE

Grand Parents



Year	Month		CPC	Al Wadi	Elwatania	Koheia	Elkanana	Misr Group	Tiba	Total
2021	1	Jan	20,000		19,000					39,000
	2	Feb				10,000			16,000	26,000
	3	Mar	20,000	15,000	19,000		13,000			67,000
	4	Apr				10,000				10,000
	5	May	20,000	10,500	19,000					49,500
	6	Jun					13,000	13,000		26,000
	7	Jul			19,000					19,000
	8	Aug	15,000	24,000						39,000
	9	Sep			19,000		13,000			32,000
	10	Oct							13,000	13,000
	11	Nov	15,000		19,000					34,000
	12	Dec		15,500			13,000			28,500
2021			90,000	65,000	114,000	20,000	52,000	13,000	29,000	383,000

383,000



Breeders



Year	Month		Local	Total
2021	1	Jan	1,068,850	1,068,850
	2	Feb	1,093,656	1,093,656
	3	Mar	1,094,299	1,094,299
	4	Apr	1,529,440	1,529,440
	5	May	1,203,316	1,203,316
	6	Jun	1,178,625	1,178,625
	7	Jul	1,321,514	1,321,514
	8	Aug	1,023,719	1,023,719
	9	Sep	1,326,236	1,326,236
	10	Oct	1,158,698	1,158,698
	11	Nov	1,140,729	1,140,729
	12	Dec	1,422,563	1,422,563
2021			14,561,645	14,561,645

14,561,645



Broilers

Year	Month		Local
2021	1	Jan	107,134,148
	2	Feb	109,745,744
	3	Mar	109,349,426
	4	Apr	134,546,801
	5	May	102,712,883
	6	Jun	100,038,936
	7	Jul	124,352,238
	8	Aug	99,872,451
	9	Sep	127,183,329
	10	Oct	101,769,522
	11	Nov	107,127,329
	12	Dec	137,587,529
2021			1,361,420,337

1,361,420,337

Egyptian Poultry Farm Insights

The majority of broiler production (close to 50%) is small-scale production (farms with less than 15000 birds per cycle)

Farm with old and very basic production equipment and intensive use of hand labor, poor biosecurity, high FCR, high mortality, ununiformed stock.

- The internal poultry market in Egypt is substantial and will likely grow by more than 30% in the next 10 years. It is protected by 30% import tax for poultry.
- It is currently dominated by live poultry sales.
- When buying at Live Bird Market the consumers are looking for fresh, properly (according to HALAL principles) slaughtered poultry at reasonable price

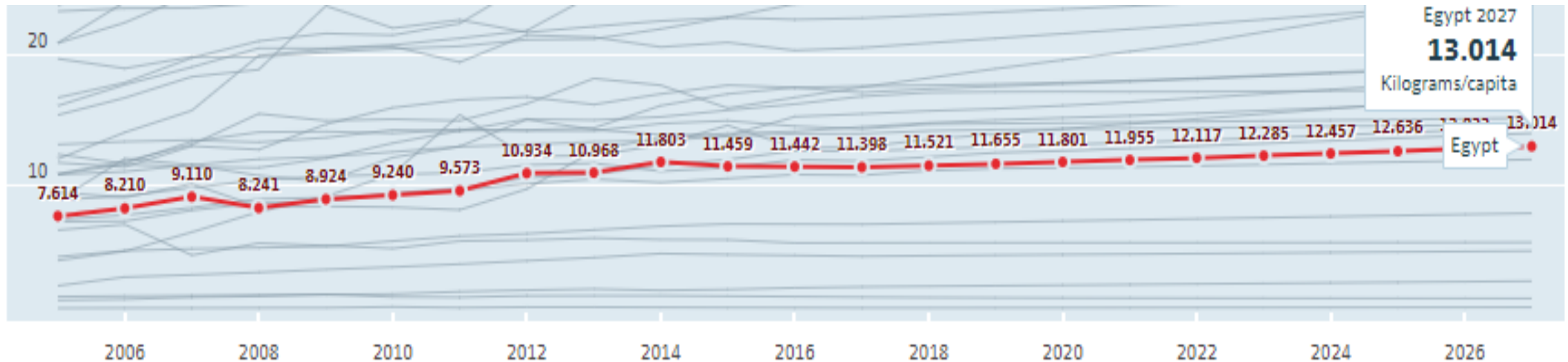
Categories of farms in Egypt	No. of farms
Farms with 5 thousand to less than 25 thousand bird spaces	5000
Farms with 25,000 to less than 100,000 bird spaces	14000
Farms with 100,000 bird spaces or more	1250
Total	20250

*Source: FAO

Poultry meat consumption in Egypt



- Poultry consumption in Egypt sits at 12.117 Kg/capita/year (2022) rising only to 13.014 Kg/capita/year in 2027.



Meeting Basic Consumer Expectations



Quality of the
product in all
respects



Fresh meat
produced at an
acceptable price



Food Safety
and
Traceability

Basic consumer requirements for standard chicken meat
products

Poultry marketing challenges in Egypt



- **The main objective has to be the transformation of LBM into the chilled poultry meat market which will require additional significant investment into slaughtering capacities and cold chain.**
- **In addition the category 2 and 3 farms will have to change their production practices and greatly improve biosecurity to be able to fit into the new system offering to the market more uniformed healthy flocks that will not be rejected by the slaughterhouses.**



- **One of the biggest challenges that will be faced by the industry is becoming more cost efficient.**
- **Egypt's WTO commitment will put additional pressure on the broiler poultry industry that will have to benchmark its cost of production and final price offered to consumer against the global poultry producing countries.**
- **National marketing campaign targeted at promoting consumption of domestically produced and industrially slaughtered chilled poultry meat (this will mean consumer category development) will help to protect Egyptian broiler industry using pure marketing tools**



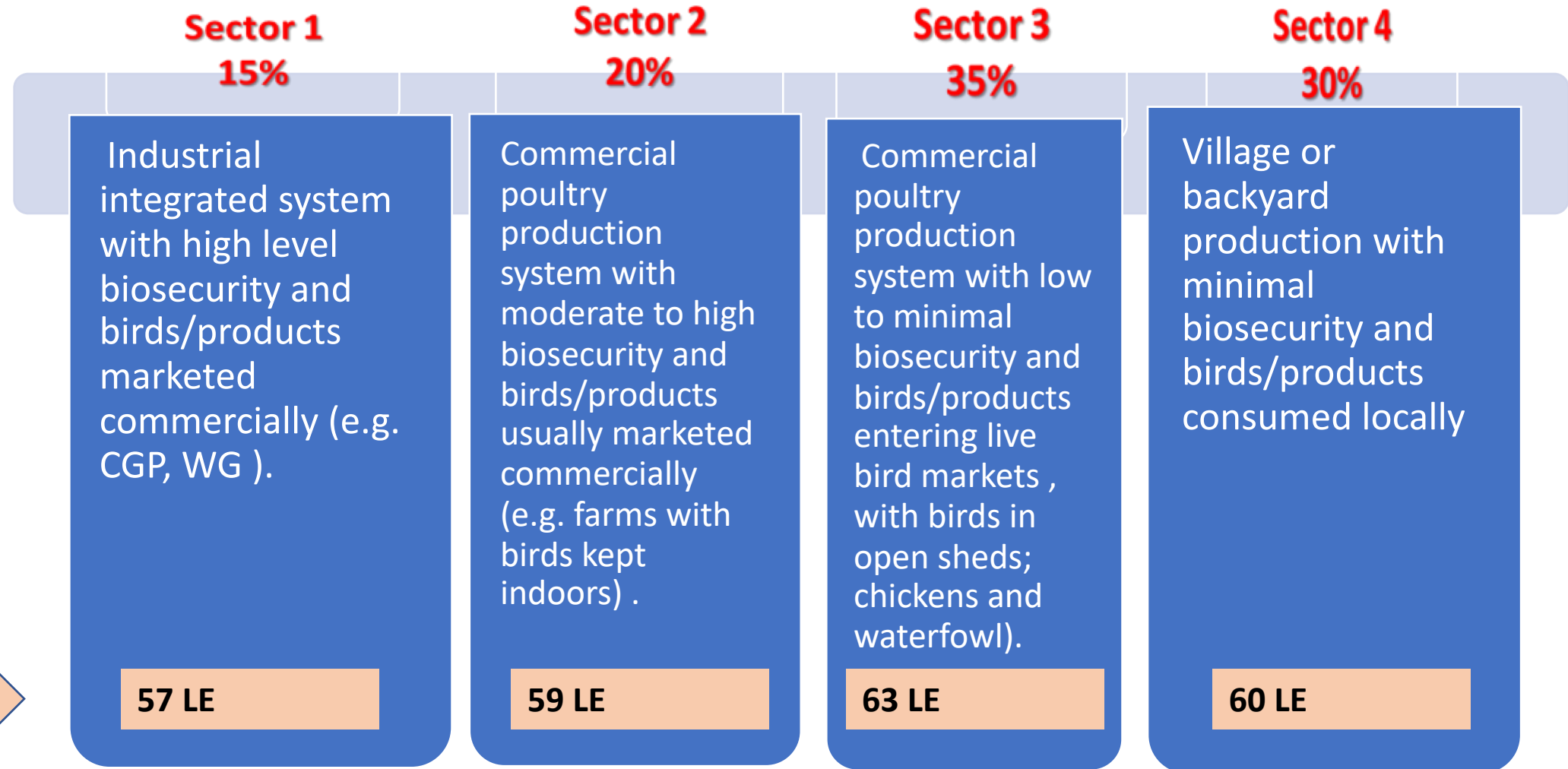
Chamber of Food Industries
غرفة الصناعات الغذائية

- Europe (Euro-partnership agreement)
- Arab Countries
- African Nations (COMESA)
- Turkey
- QIZ

- **The recent banning of antibiotics use as a poultry growth promoter presents a major growth opportunity for poultry feed plant.**
- **Farmers will now be compelled to seek new products to Fasten the growth of their poultry. Unless an effective alternative to antibiotics is found.**
- **This leaves room for greater growth of local poultry suppliers and feeds producers as well.**



Main Poultry Sectors



50 % of broiler production is small scale (Sectors 2-3)

The integrated Companies are growing and establishment (Cairo 3A, CPC , Al Watania Group). (Sector1)

6 cycles rather than 5 or even 9 cycles per year.

Intensive use of hand labor.

Poor Biosecurity , high mortality, high FCR , ununiformed stock (Sector 3-4)

AI consumer scare, poultry meat import policy change, etc.

The tremendous price fluctuations and availability of poultry meat to final consumers.

Annual Poultry per capita in Egypt was around 13.6 kg.

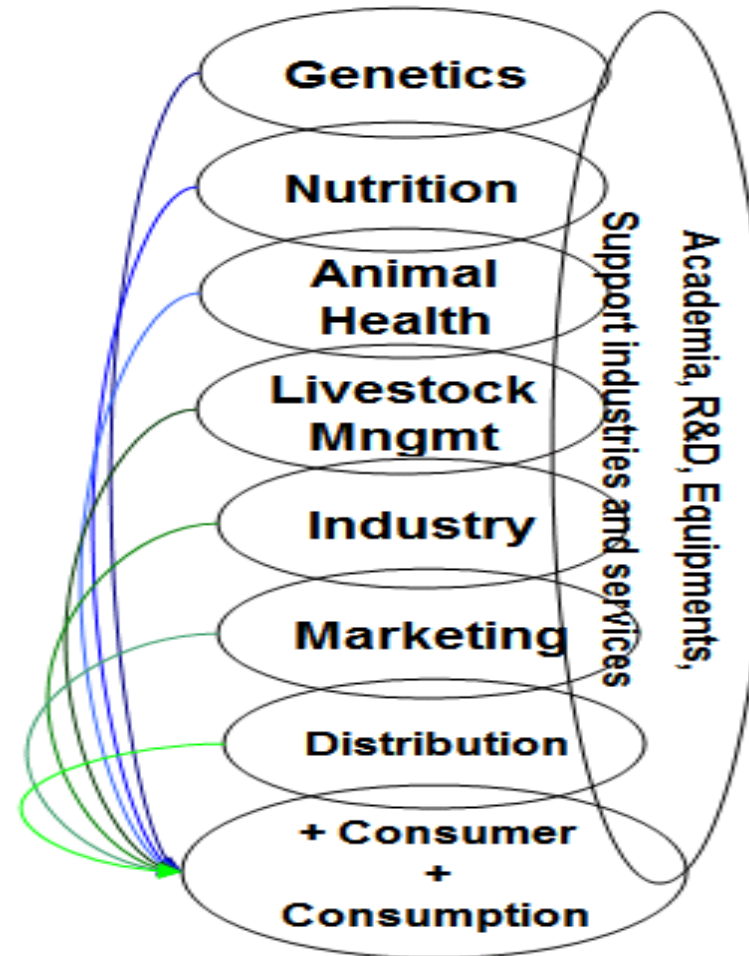
(Over 80%) hard currency (\$) share in the cost of broiler meat production. Currency risk

Biological risk (AI, disease) , as well as consumer attitude risks.

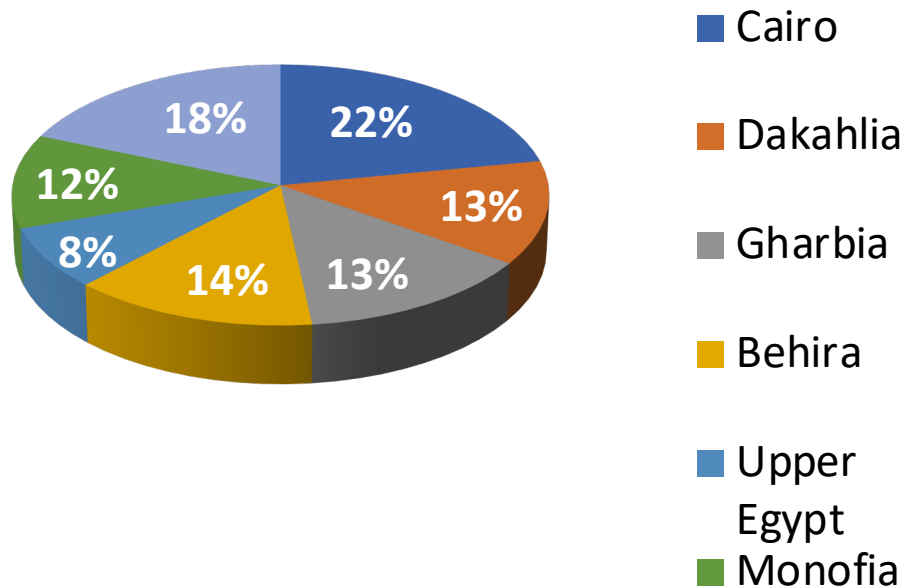
- **600 feed mills**
 - **Egg laying hens consume around** **producing 7.3 million tons**
 - **100 feed mills non fully functional** **18% 745 Tons**
 - **The average live slaughter weight of** **1.8 kg/bird**
 - **FCR close to** **1.5 kg of feed / 1kg of live weight gained.**
 - **Broilers consume** **4 M Tons**
 - **Broiler Feed Add**
 - **70% Anticoccidial Feed Add .**
 - **85% AntiClosterdials**
 - **85% AntiMycotoxins**
 - **75 % Emulsifiers , Enzymes**

Next 30 years

Vertical cooperation in the chain



Market Potential (Feed Mills)



Annual / Ton	Capacity / Ton	Area	م
1.020.000	85.000	Gharbia	1
960.000	80.000	Dakahlia	2
840.000	70.000	Monofia	3
1.380.000	115.000	Elsharkia	4
1.020.000	85.000	Elbehria	5
1.620.000	135.000	Cairo	6
540.000	45.000	Upper Egypt	7
7,380,000	615,000	Total	

- There are 360 hatcheries that are operational.
Capacity 2279 M. eggs/year.
- There are 65 hatcheries that are not operational with capacity of 245 m. eggs
- There are also 549 operational municipal بلدية hatcheries that support backyard farmers with annual hatching capacity of 247 million eggs.
- In addition, there are 413 municipal hatcheries that are not operational with annual hatching capacity of 136 million eggs.

*** 500 slaughterhouses units in 2021.**

Divided into :

- * 200 units (65%) Manual slaughterhouses**
- * 62 Units (20%) Semi-automated slaughterhouses**
- * 47 Units (15%) Modern automated slaughterhouses**

*** The slaughtering capacity is 2 million birds per day at two shift.**

(9%) Only 87 million have been slaughtered by the slaughterhouses. The rest was consumed by the LBM.

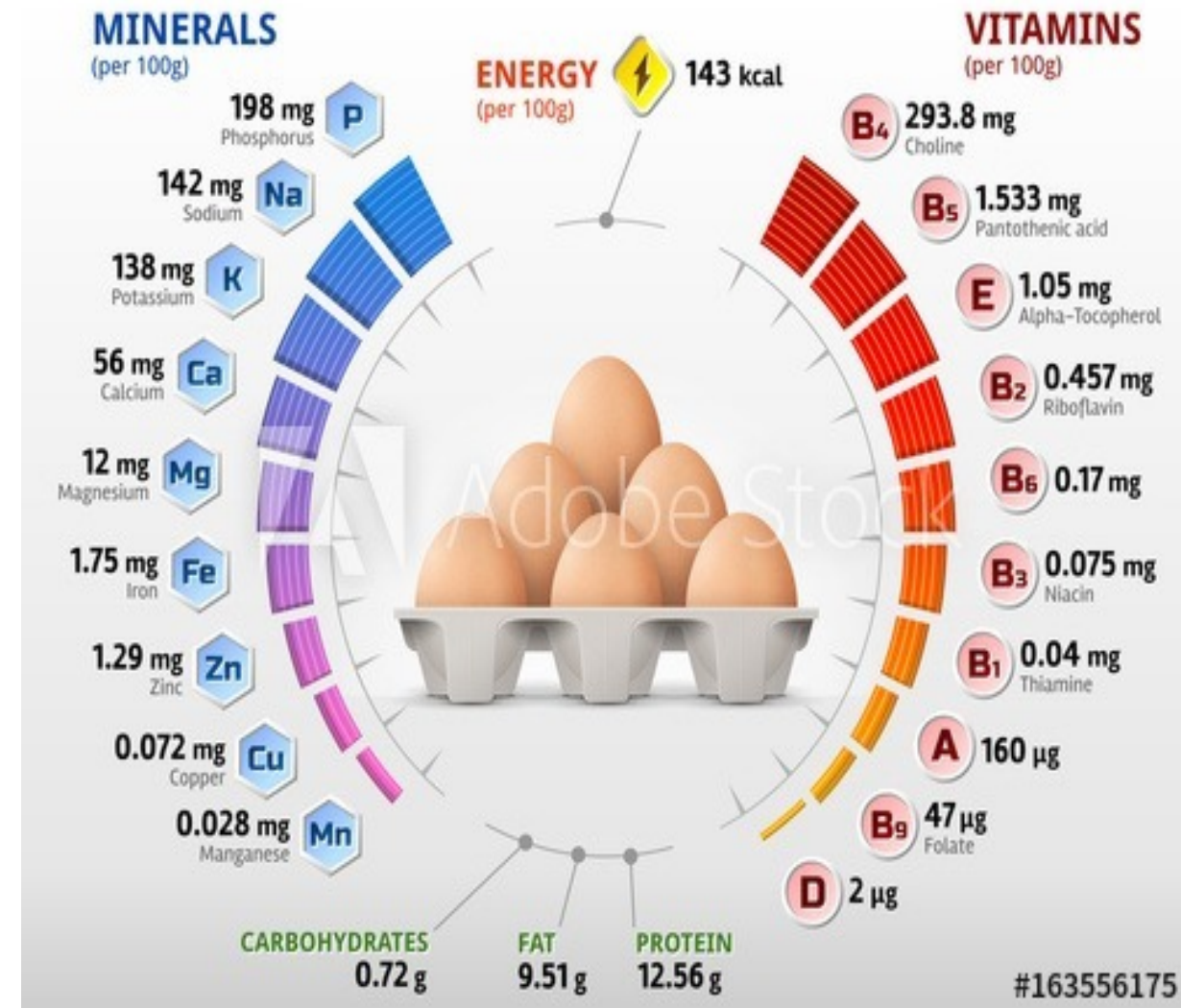
- * Also lack cold storage capacity.**
- * Around 70-80% of broiler production is marketed through LBMs**
- * LBM is still Consumer preferred.**

LBM* Lean Body Mass

Slaughter Houses

- ✓ **Manual slaughterhouses are the most common throughout the country, totaling 200 units, i.e. 65% of the total number of poultry slaughterhouses in Egypt.**
- ✓ **There are also 62 semi-automated slaughterhouses, 20% of the total number of poultry slaughterhouses.**
- ✓ **As for modern automated slaughterhouses, there are only 47 slaughterhouses, 15% of the total number of poultry slaughterhouses in Egypt.**
- ✓ **The slaughtering capacity of all slaughterhouses is indicated to be around 2 million birds per day at two shift operating schedule according to the Egyptian Poultry Association.**

Adverting the facts



**Invest in Poultry marketing, allocate budget
and create a vision based on updated
survey on consumers.**

**Drive & create the market trends not just
following them**

Encourage heavier wt. production with solving health problems and demand creation

Invest in Updating Biosecurity level (Mortality & Letter)

Creating new models for small farm contracting with slaughter house

Facilitate farm registration , well planned long term change to fresh slaughter chickens

Update the QC code for imported chickens to include meat age, Antibiotic free & Soya Bean DNA Free

Focus on children and teenagers for right consumption of Poultry protein

Campaigns to face rumors (hormones, fertility)

Communicating and using the healthy food trends and diet experts

World Poultry Meat Production Trend 2019-28



Poultry meat is projected to constitute **47%** of the protein consumed from meat sources, followed by pig, sheep and bovine.

Globally, protein availability from poultry is projected to grow **16%** by 2031

Poultry production continues to slowly grow over the next decade.

Production of poultry meat is set to rise from just over **121 million metric tons** over the average of the base period 2019 to more than **141 million metric tons** by 2028

FIGURE 2. WORLD POULTRY MEAT PRODUCTION AND CONSUMPTION PROJECTIONS TO 2028

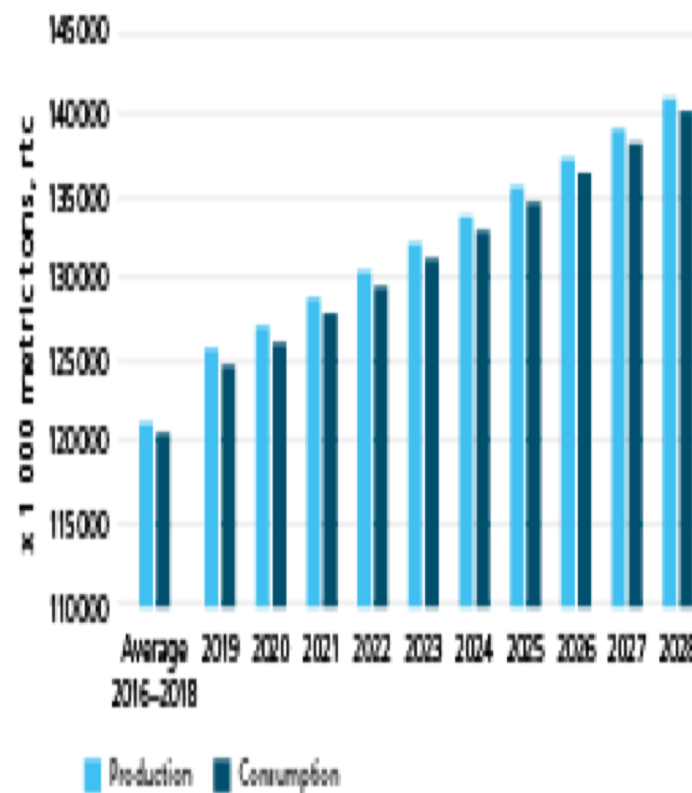
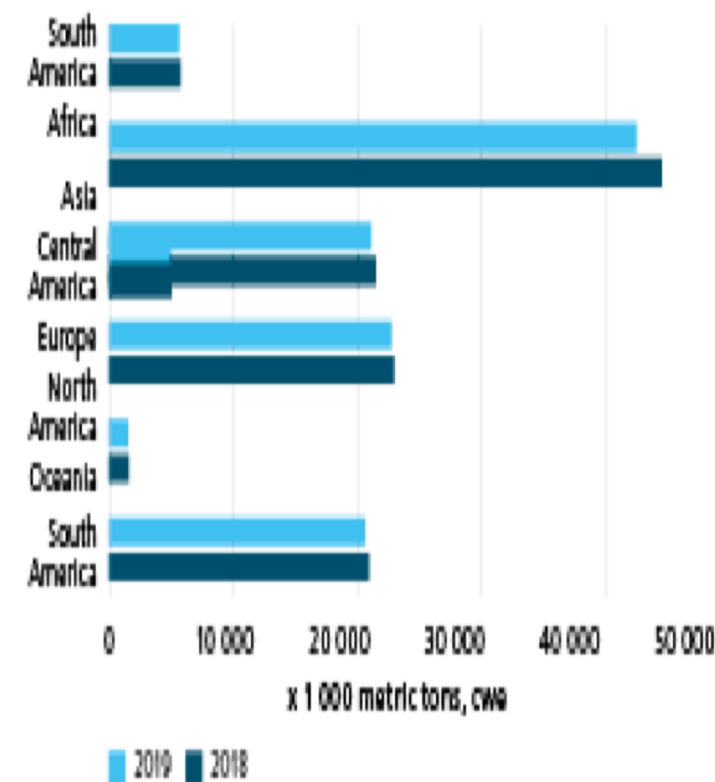


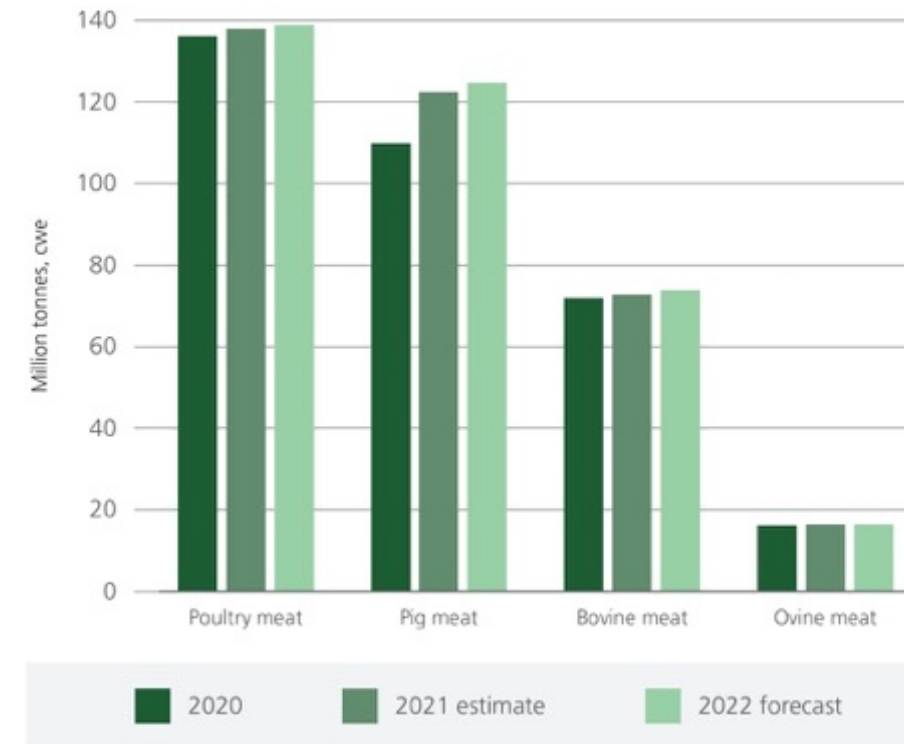
FIGURE 3. POULTRY MEAT PRODUCTION BY REGION 2018 VS. 2019



Global meat production is likely to expand, but global trade might fall

World meat production is forecast at 360 million tonnes (in carcass weight equivalent) in 2022, up by 1.2 percent from 2021. Much of the expansion is foreseen to originate from the rising output in Asia, mainly pig meat in China, and in South America, notably bovine and poultry meat, with relatively stable production elsewhere, to be primarily offset by expected declines in Europe.

Figure 3. Global meat production by type

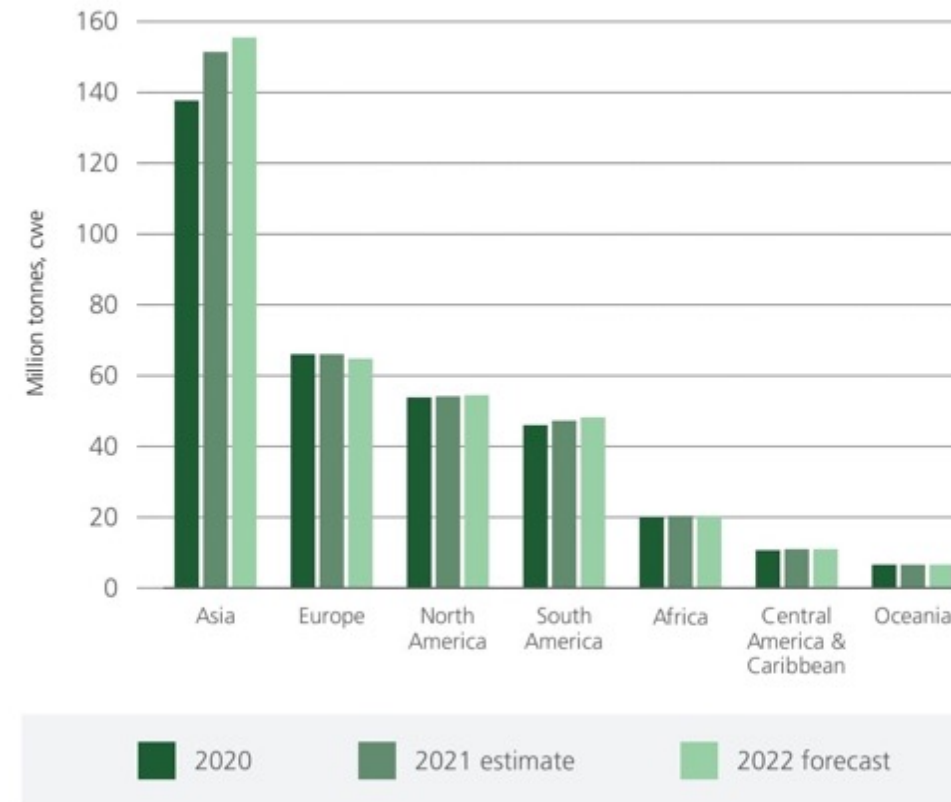


Source: FAO.

Global meat trade in 2022 is forecast to reach 41.6 million tonnes, down by 0.8 percent from 2021, principally reflecting a projected decline in meat imports by China by as much as 20 % year-on-year.

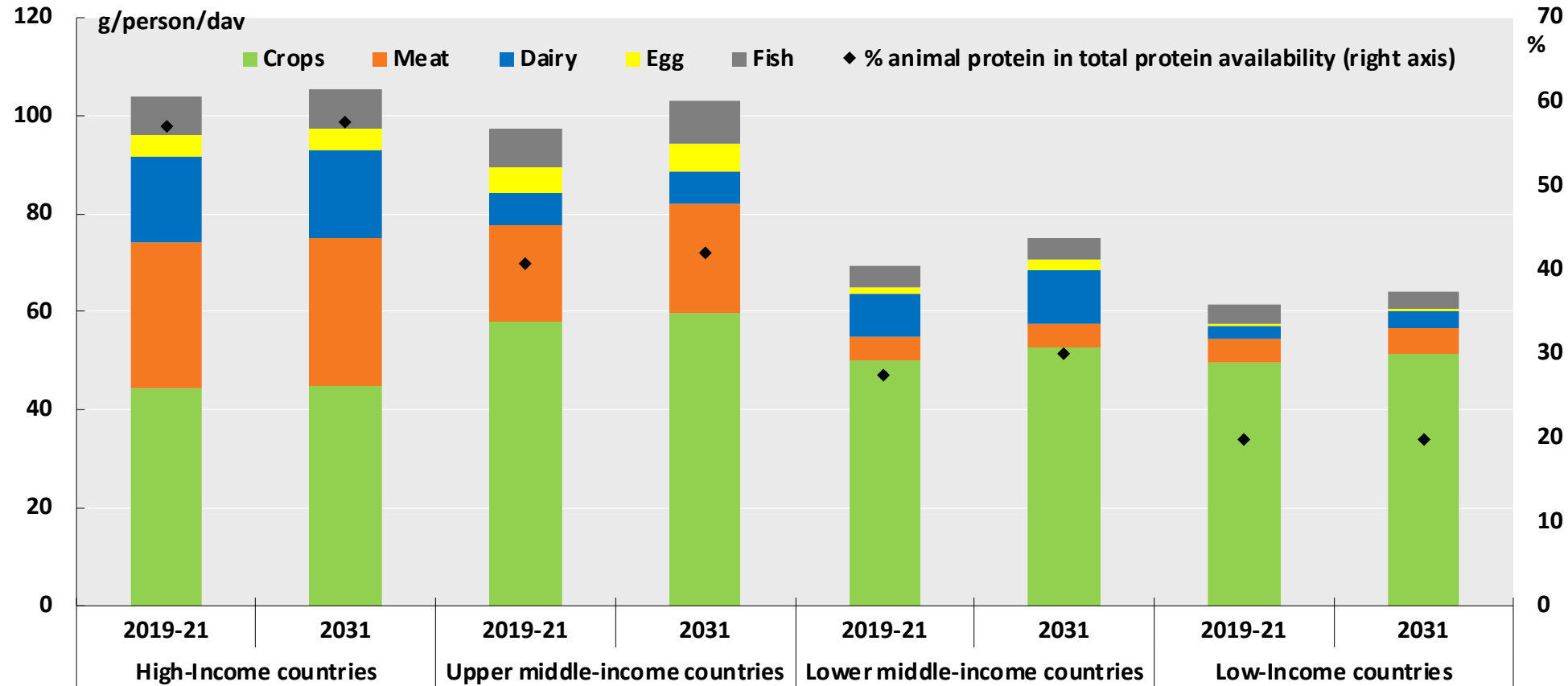
The decline is expected based on the steep increase in domestic availability

Figure 4. Global meat production by region



Source: FAO.

Per capita protein availability, by country income group



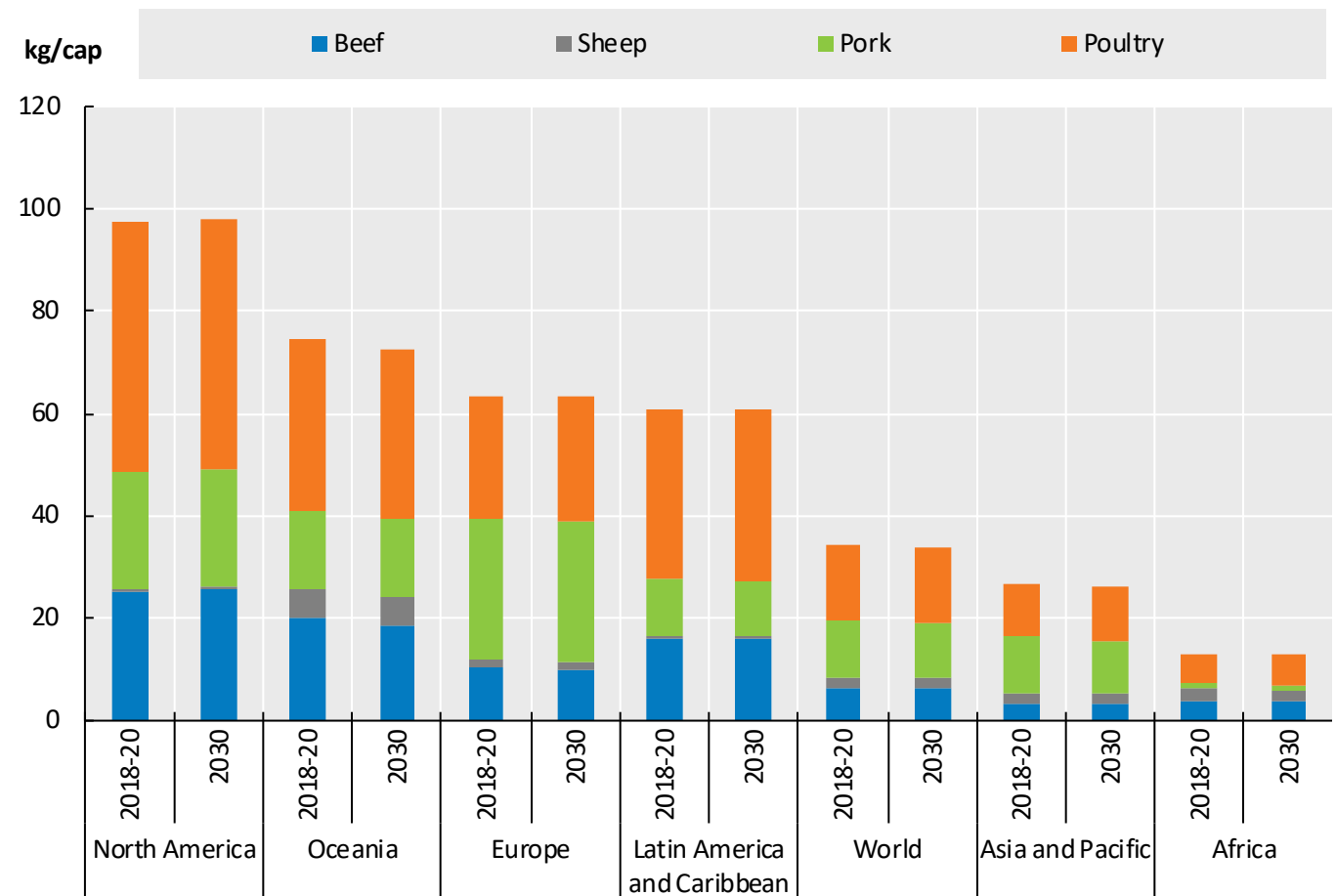
Source: OECD/FAO (2022), "OECD-FAO Agricultural Outlook", OECD Agriculture statistics (database), <http://dx.doi.org/10.1787/agr-outl-data-en>.

World poultry meat consumption trend 2022 Vs. 2030



		Beef	Sheep	Pork	Poultry
North America	2018-20	25.428	0.502	22.915	48.650
	2030	25.498	0.482	22.909	49.086
Oceania	2018-20	20.098	5.669	15.348	33.542
	2030	18.645	5.367	15.226	33.410
Europe	2018-20	10.173	1.552	27.637	24.148
	2030	9.993	1.523	27.359	24.321
Latin America and Caribbean	2018-20	16.158	0.624	10.764	33.367
	2030	15.963	0.623	10.578	33.665
World	2018-20	6.413	1.824	11.422	14.785
	2030	6.331	1.821	10.884	14.975
Asia and Pacific	2018-20	3.494	1.986	10.820	10.305
	2030	3.477	1.989	10.070	10.615
Africa	2018-20	3.873	2.258	1.136	5.754
	2030	3.743	2.256	1.103	5.627

Meat consumption per capita: Continued rise of poultry and fall of beef



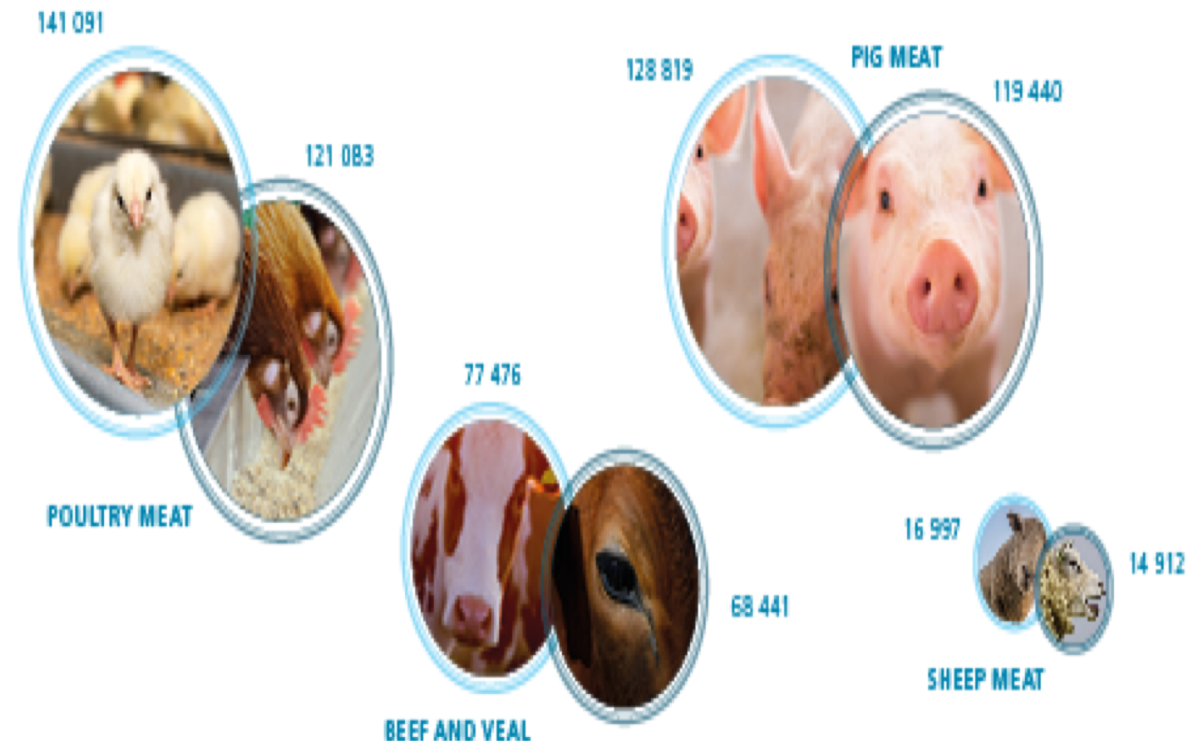
Global meat production by species 2027 projection compared to average of 2015-17 production x 1,000 metric tons



FIGURE 1. GLOBAL MEAT PRODUCTION BY SPECIES 2028 PROJECTION COMPARED TO AVERAGE OF 2016-2018 PRODUCTION (1,000 METRIC TONS, CWE OR RTC)

Poultry will continue to lead in the meat type produced over the next 10 years, thanks to the fact that its short production cycle allows producers to respond quicker than other meats to market demands and production benefits that make it more sustainable for the environment than some other Animals.

By 2028, some **141 million metric tons** of poultry meat are projected by FAO to be produced, with pig meat forecast at almost **129 million metric tons**, beef and veal production at nearly **77.5 million metric tons** and sheep meat at just **17 million metric tons**



Poultry Meat import & export growth % by region 2021

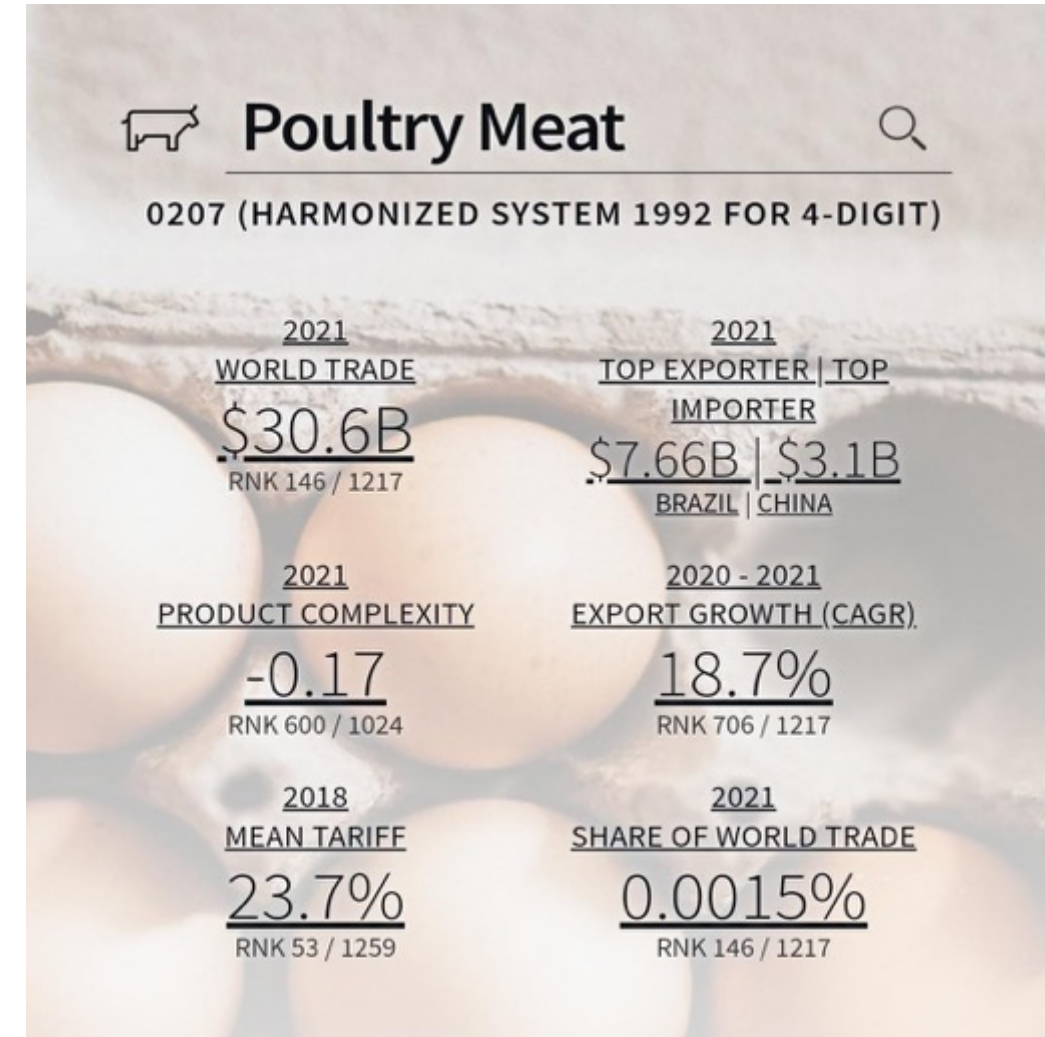
In 2021, the top exporters of **Poultry Meat** were [Brazil](#) (\$7.66B), [United States](#) (\$4.8B), [Poland](#) (\$3.12B), [Netherlands](#) (\$2.57B), and [Germany](#) (\$1.01B).

In 2021, the top importers of **Poultry Meat** were [China](#) (\$3.1B), [Germany](#) (\$2.08B), [France](#) (\$1.6B), [United Kingdom](#) (\$1.42B), and [Mexico](#) (\$1.41B).

The world's **total poultry meat exports** in 2022 are forecast to expand by **2.8** percent at **16.2 million tonnes**, compared to 2021, driven by expected higher imports by the **United Kingdom**, the **United Arab Emirates**, the **European Union** and **Iraq**, partially offset by declines mainly concentrated in **China** and **Saudi Arabia**.
(FAO 2022)

Source:

[https://oec.world/en/profile/hs/poultrymeat#:~:text=Historical%20Data&text=In%202021%2C%20the%20top%20exporters,and%20Mexico%20\(%241.41B\).](https://oec.world/en/profile/hs/poultrymeat#:~:text=Historical%20Data&text=In%202021%2C%20the%20top%20exporters,and%20Mexico%20(%241.41B).)



WATT**Poultry**.com **WORLD'S**
TOP POULTRY COMPANIES

WORLD'S TOP 10 BROILER PRODUCERS

RANK	Head slaughtered annually (broilers, millions)	Company	Country
1	4,426.0	JBS S.A.	Brazil
	2,008.0	Seara	Brazil
	1,526.0	Pilgrim's Pride Corp.	United States
	580.0	Pilgrim's de México	Mexico
	312.0	Moy Park Ltd.	United Kingdom
2	1,900.0	Tyson Foods	United States
3	1,732.0	BRF	Brazil
4	1,101.0	Wen's Food Group	China
5	695.0	Wellhope Agri-Tech	China
6	685.0	CP Group	Thailand
7	655.0	Koch Foods Inc.	United States
8	635.0	Sanderson Farms Inc.	United States
9	627.0	Industrias Bachoco	Mexico
	130.0	OK Foods Inc.	United States
10	625.0	Cargill	United States
	252.0	Cargill Proteína Latinoamérica	Honduras
	114.0	Cargill Proteína Latinoamérica	Colombia
	56.0	Cargill Proteína Latinoamérica	Honduras
	48.0	Tip-Top Industrial	Nicaragua
	34.0	Corporación Pipasa (Cargill)	Costa Rica
	180.0	Cargill Meats Asia	Thailand
	144.0	Cargill Meats Europe	United Kingdom
	49.0	Cargill China	China

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EUROPE'S TOP 10 BROILER PRODUCERS

Head slaughtered
annually

RANK	(broilers, millions)	Company	Country
1	578.5	LDC	France
2	520.0	2 Sisters Food Group	United Kingdom
3	492.0	MHP (Myronivsky Hliboproduct)	Ukraine
4	468.0	Plukon Food Group	Netherlands
	27.2	Grupo VMR	Spain
5	350.0	Gruppo Veronesi	Italy
6	350.0	PHW Group	Germany
7	346.8	Resource Agribusiness Group	Russia
8	322.4	Cherkizovo Group	Russia
9	312.0	Moy Park Ltd.	United Kingdom
10	250.0	Amadori	Italy

ASIA'S TOP 5 BROILER PRODUCERS

RANK	Head slaughtered annually	Company	Country
	(broilers, millions)		
1	1,101.0	Wen's Food Group	China
2	695.0	Wellhope Agri-Tech	China
	54.0	Henan Shuanghui Investment & Development Co., Ltd.	China
3	685.0	CP Group	Thailand
4	607.5	Japfa Ltd.	Singapore
5	517.0	Suguna Foods	India

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WATTPoultry.com **WORLD'S**
TOP POULTRY COMPANIES

AFRICA'S TOP 10 BROILER PRODUCERS

RANK	Head slaughtered annually (broilers, millions)	Company	Country
1	280.0	Astral Foods	South Africa
2	197.0	RCL Foods Ltd.	South Africa
	8.0	<i>Yo Kuku</i>	<i>Uganda</i>
3	90.0	Cairo Poultry Co. (CPC)	Egypt
4	80.0	Sovereign Food Investments	South Africa
5	75.0	Country Bird Holdings Ltd.	South Africa
6	58.0	Arab Poultry Breeders Co. (Ommat)	Egypt
7	50.0	Daybreak Farms	South Africa
8	43.7	Quantum Foods	South Africa
9	30.0	Alf Sahel s.a.r.l.	Morocco
10	20.0	Chi Farms Ltd.	Nigeria

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SOUTH AMERICA'S TOP 10 BROILER PRODUCERS

Head slaughtered
annually

RANK	(broilers, millions)	Company	Country
1	4,426.0	JBS S.A.	Brazil
	2,008.0	Seara	Brazil
2	1,732.0	BRF	Brazil
3	300.0	Aurora Alimentos	Brazil
4	275.0	Lar Cooperativa AgroIndustrial	Brazil
5	250.0	San Fernando	Peru
6	200.0	Copacol	Brazil
7	195.0	Agrosuper Group	Chile
8	160.6	Granja Tres Arroyos	Argentina
9	153.9	C Vale - Cooperative Agroindustrial	Brazil
10	149.6	Redondos SA	Peru

TOP US BROILER COMPANIES, *MILLION LBS. RTC*

Production numbers based on weekly average slaughter in continental U.S. plants during 2022

Rank	Company	Million lbs. RTC	Million head
1	Tyson Foods	206.68	37.653
2	Pilgrim's Pride Corp.	161.30	30.000
3	Wayne-Sanderson Farms*	145.60	20.700
4	Mountaire Farms Inc.	65.10	8.200
5	Perdue Foods	63.02	12.310
6	Koch Foods Inc.	62.10	13.400
7	Peco Foods	33.80	4.953
8	George's Inc.	31.50	6.600
9	House of Raeford Farms Inc.	30.18	3.850
10	Amick Farms LLC	30.00	3.700

* July 2022 - Wayne Farms acquires Sanderson Farms and becomes Wayne-Sanderson Farms

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WATTPoultry.com **WORLD'S**
TOP POULTRY COMPANIES

MIDDLE EAST'S TOP 10 BROILER PRODUCERS

Head slaughtered
annually

RANK	(broilers, millions)	Company	Country
1	603.4	Arab Company for Livestock Dev. (ACOLID)	Saudi Arabia
2	300.0	Al-Watania	Saudi Arabia
3	200.0	Al-Fakieh Poultry Farms	Saudi Arabia
4	195.0	Almarai Co.	Saudi Arabia
5	160.0	Erpiliç	Turkey
6	146.0	Keskinoğlu	Turkey
7	121.0	Beypiliç	Turkey
8	110.0	Şenpiliç Gıda Sanayi	Turkey
9	90.0	Abaloğlu Group	Turkey
10	90.0	Banvit	Turkey

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WATT**Poultry**.com **WORLD'S**
TOP POULTRY COMPANIES

OCEANIA'S TOP 7 BROILER PRODUCERS

Head slaughtered
annually
(broilers, millions)

RANK		Company	Country
1	222.5	Inghams Enterprises Pty. Ltd.	Australia
2	208.0	Baiada Poultry	Australia
3	75.0	Turosi	Australia
4	58.0	Tegel Foods	New Zealand
5	44.0	The Golden Cockerel Group	Australia
6	35.3	Hazeldene's	Australia
7	15.0	P H Van Den Brink	New Zealand

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WATT**Poultry**
.com **WORLD'S**
TOP POULTRY COMPANIES

SOUTH AMERICA'S TOP 10 EGG PRODUCERS

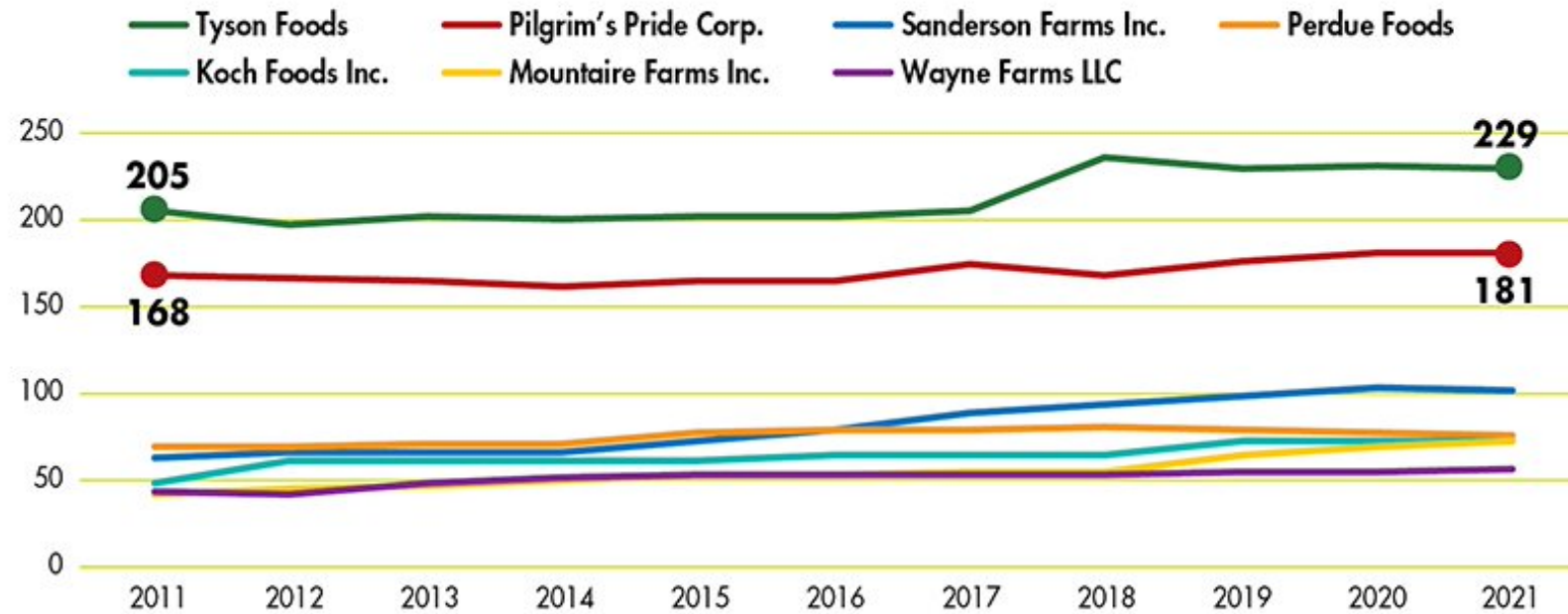
RANK	Layers (millions)	Company	Country
1	11.5	Granja Mantiqueira	Brazil
2	10.0	Granja Faria	Brazil
3	10.0	Granja Yabuta	Brazil
4	7.0	Incubadora Santander	Colombia
5	5.0	Ademar Kerckhoff (Kerovos)	Brazil
6	4.8	Avícola La Calera	Peru
7	4.2	Agropecuaria Río Bravo	Peru
8	4.2	Granja Almeida	Brazil
9	4.0	Grupo El Tunal	Venezuela
10	3.3	Nutriavícola SA	Colombia

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WATT PoultryUSA Top Companies survey, 2022

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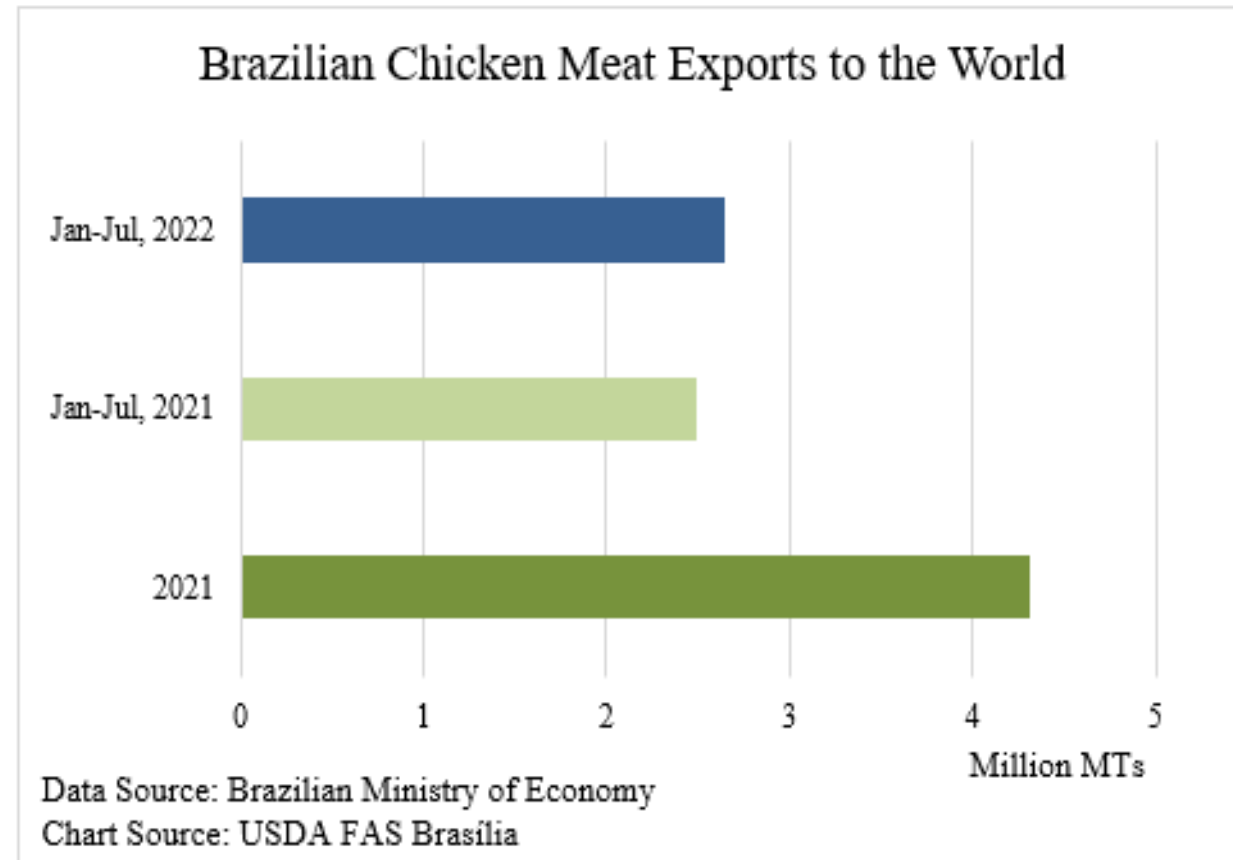
TOP 7 BROILER COMPANIES SLAUGHTER VOLUME 2011-2021, *million lbs. total liveweight*



BRAZIL Chicken Meat Exports 2022

Brazilian broiler exports reach a new record of 4.85 million tonnes in 2022, according to [ABPA \(Brazilian Association for Animal Protein\)](#). This would be **5%** more than in 2021 when the country exported 4.6 million tonnes.

Brazil's exports to the Arab world reached **\$17.74 billion** in 2022, according to recent reports released by the Arab Brazilian Chamber of Commerce.



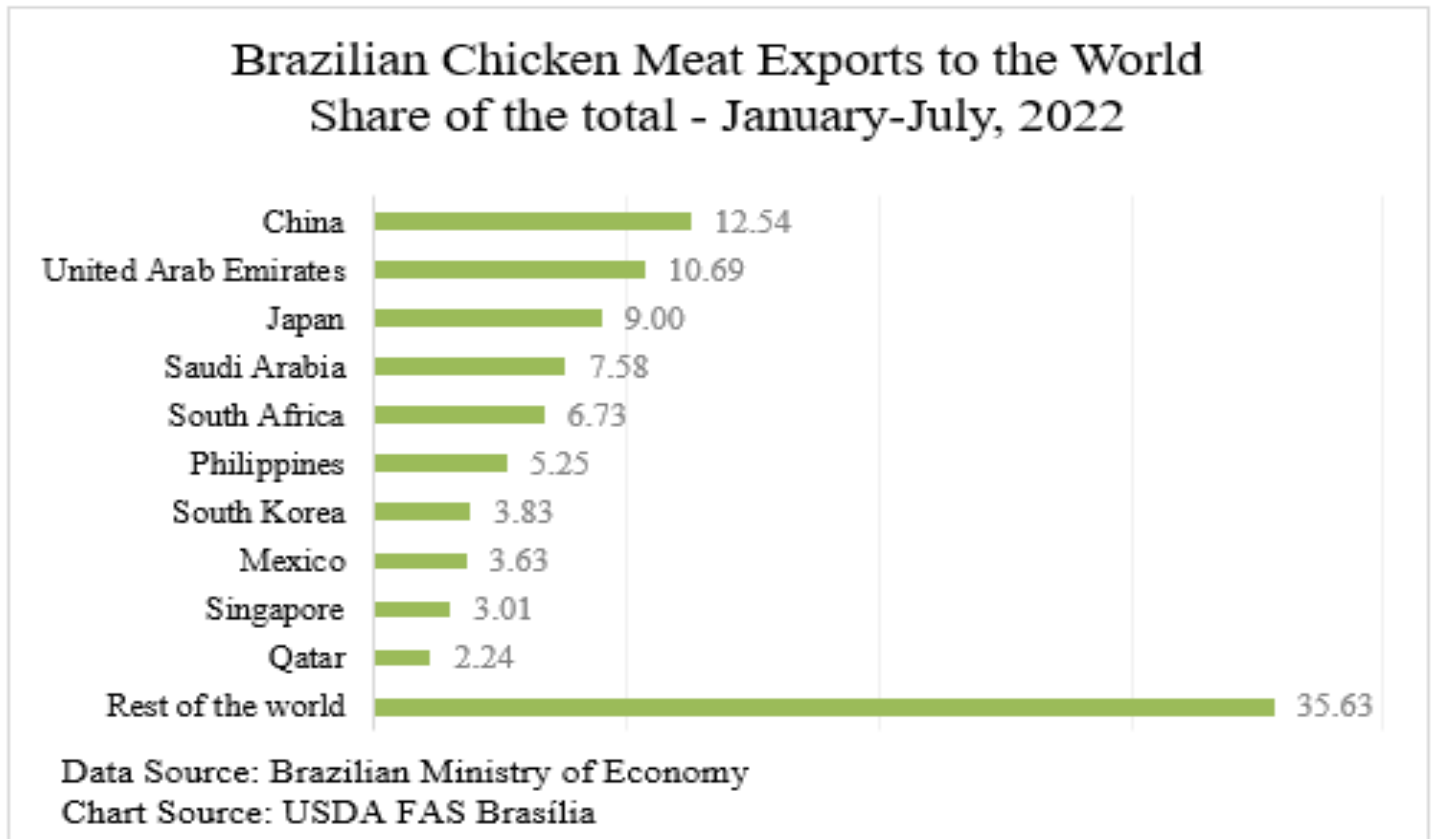
Local production Vs. imported

- Brazil is the biggest current supplier of imported poultry meat with its share of close to 90% .
- Producers in Brazil achieve cost of production around \$ 1,3 / kg of dressed meat.
- This means that vertically integrated Egyptian poultry producers are theoretically competitive on the domestic market with the most efficient global poultry producers even under the free market conditions

*Source: FAO

BRAZIL Chicken Meat Exports 2022

In 2021, the top five markets for Brazilian chicken exports were China, Japan, the United Arab Emirates (UAE), Saudi Arabia, and South Africa, in that order. From January to July 2022, this order is currently the following: China, UAE, Japan, Saudi Arabia, and South Africa.



BRAZIL Chicken Meat PRICES / Production Cost 2022

the average price for chilled chicken was R\$ 7.27 (**US\$1.42**) per kilogram and R\$ 7.21 (**US\$1.41**) per kilogram for frozen chicken.

As a comparison, in 2021, the average price for chilled chicken was R\$ 7.19 (**US\$1.34**) per kilogram and a record R\$ 8.60 (US\$1.60) per kilogram in mid-September.

In comparison, in 2020, the record price had been R\$ 6.51 (**US\$1.26**). For frozen chicken, the average price during 2021 was a bit lower at R\$ 7.05 (**US\$1.31**) per kilogram, and the record price was R\$8.55 (US\$1.59) per kilogram, also in mid-September.

Poultry Production Costs - July, 2022		
Item	Value difference compared to previous 12 months	Percentage of total
Nutrition (feed)	+0.78%	72.27%
Day-old chick	+2.31%	14.75%
Labor	+0.14%	3.67%
Transportation	+0.16%	1.62%
Depreciation	+0.78%	2.64%
Capital Cost	+0.49%	2.02%
Electric Energy/ Bed/ Heating	+0.38%	1.65%
Maintenance/ Financial/ Funrural	+0.25%	0.84%
Diverse/ Others	+0.01%	0.17%
Sanity	+0.21%	0.36%
Total	+5.51%	100%

Data Source: EMBRAPA Swine and Poultry, ICPFrango

Chart Source: USDA FAS Brasilia

BRAZIL Chicken Meat Exports 2022

As the world's largest exporter of halal animal protein, Brazil continues to seek to increase its exports to the Arab world.

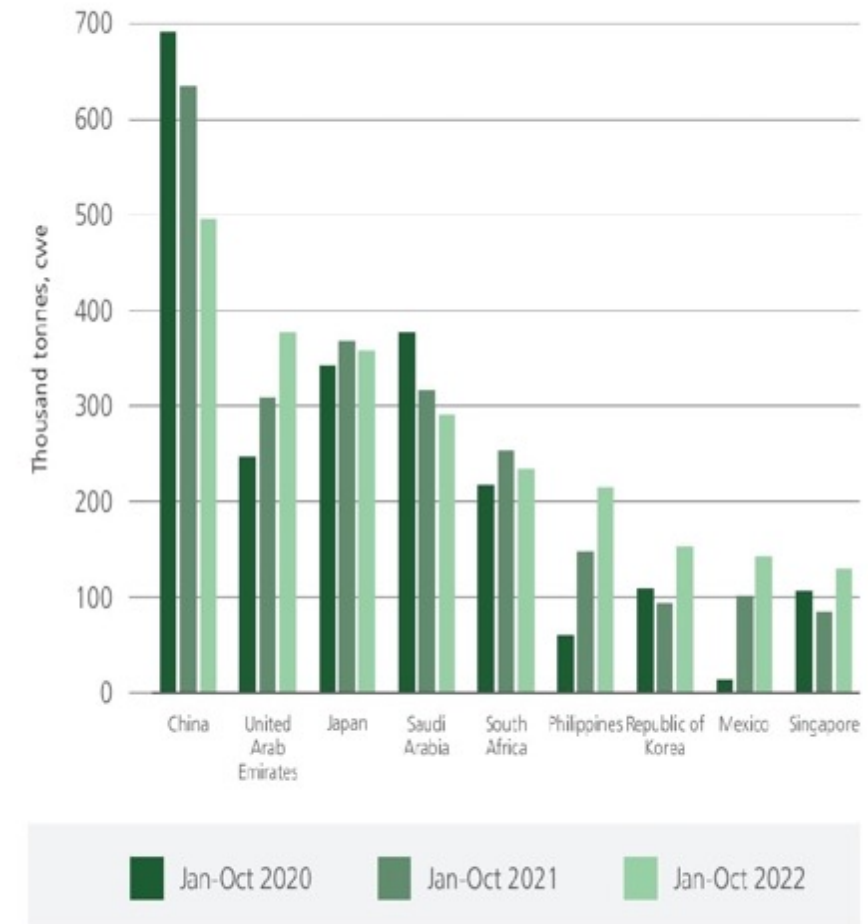
It currently exports halal chicken to **58 countries**, according to the Poultry World. Per ABPA data, halal chicken exports represented close to 50 percent of Brazil's overall exports of chicken in 2021, with 1.915 MMT exported.

From January to July, 2022, Brazil has exported over **845 thousand metric tons** of chicken meat to the Middle East, representing **32%** of all its exports – this includes all types of chicken meat exports, not only halal products.

The exports to the region in the first seven months of 2022 are almost nine percent higher than the same period in 2021. As a comparison, in 2021, it exported 1.35 MMT to the region in the entire year.

Brazil's top ten export markets for January to July 2022 include three Middle Eastern countries – **UAE (top 2)**, **Saudi Arabia (top 4)**, and **Qatar (top 10)**. Brazilian companies are constantly thinking of ways to expand access to the Arab-Muslim communities.

Figure 7. Brazil poultry exports by major destinations



Source: FAO, based on Trade Data Monitor (TDM).

BRAZIL Chicken Meat Exports 2022

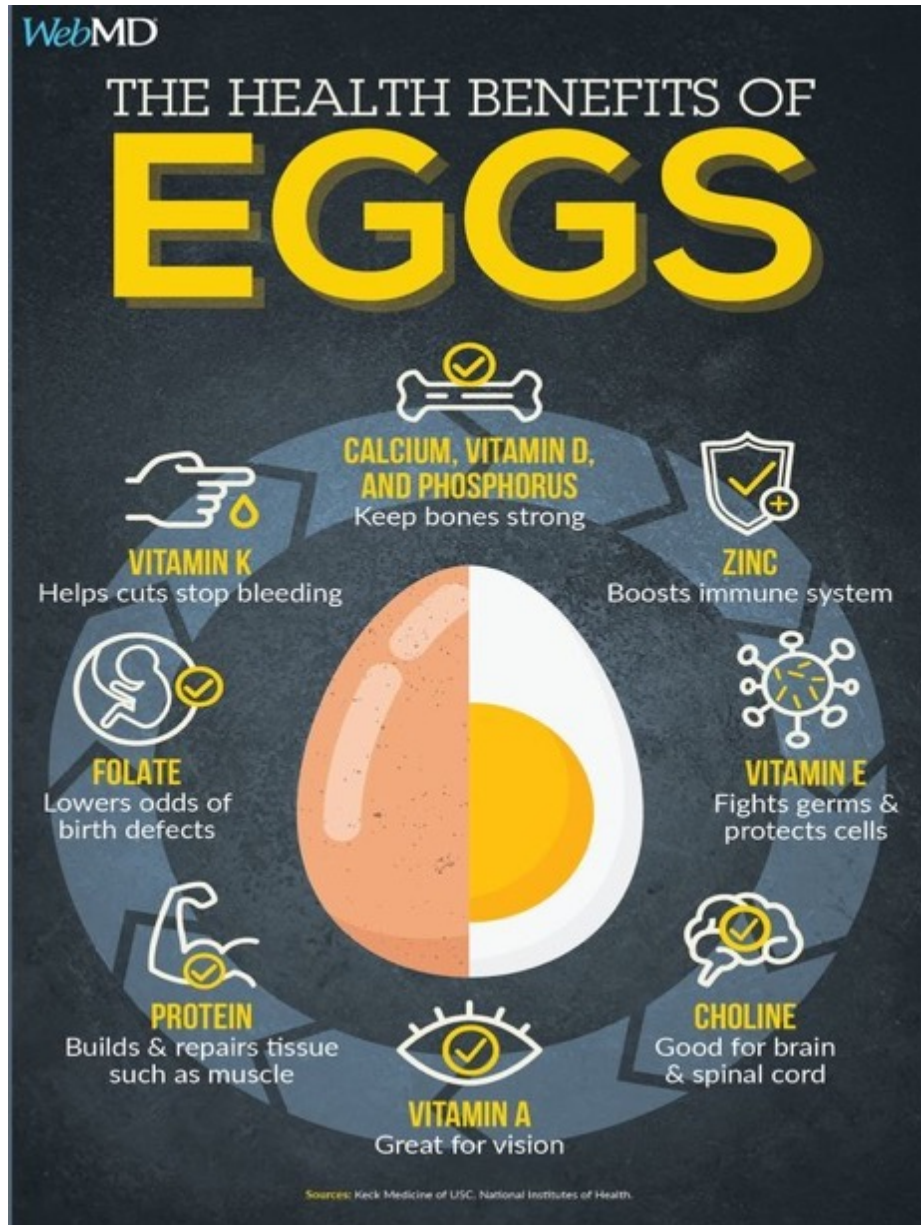
The UAE is, according to ABPA, the largest importer of Brazilian halal animal protein in the world and has recently surpassed Japan as the second largest destination overall for Brazilian chicken meat exports.

Brazil has exported over **282 thousand metric tons** to the country in the first seven months of 2022, a value over 100 thousand metric tons larger than that in the same period in 2021. Thus far this year, Brazilian exports to the UAE rose over 66 percent in volume.

Brazil is currently the largest supplier of chicken meat to the UAE, distantly followed by the United States, which has a six-fold smaller export number to the country thus far in 2022. In a July interview to the press, the president of ABPA noted that “the Emirates are not the new China, but rather a great re-export hub to the regions of Asia and Middle East” due to its strategic location.

WebMD

THE HEALTH BENEFITS OF EGGS



CALCIUM, VITAMIN D, AND PHOSPHORUS
Keep bones strong

VITAMIN K
Helps cuts stop bleeding

ZINC
Boosts immune system

FOLATE
Lowers odds of birth defects

VITAMIN E
Fights germs & protects cells

PROTEIN
Builds & repairs tissue such as muscle

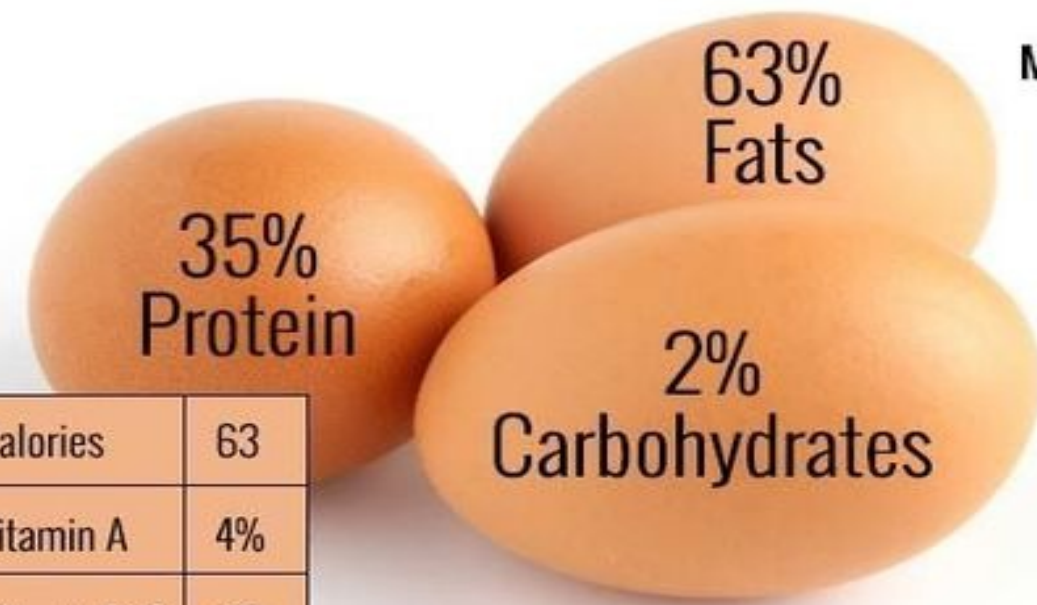
CHOLINE
Good for brain & spinal cord

VITAMIN A
Great for vision

Sources: Keck Medicine of USC, National Institutes of Health.

EGG NUTRITION FACTS

1 medium-sized egg contains



Minerals such as:

- Thiamin
- Riboflavin
- Calcium
- Selenium
- Magnesium
- Iron
- Fluoride

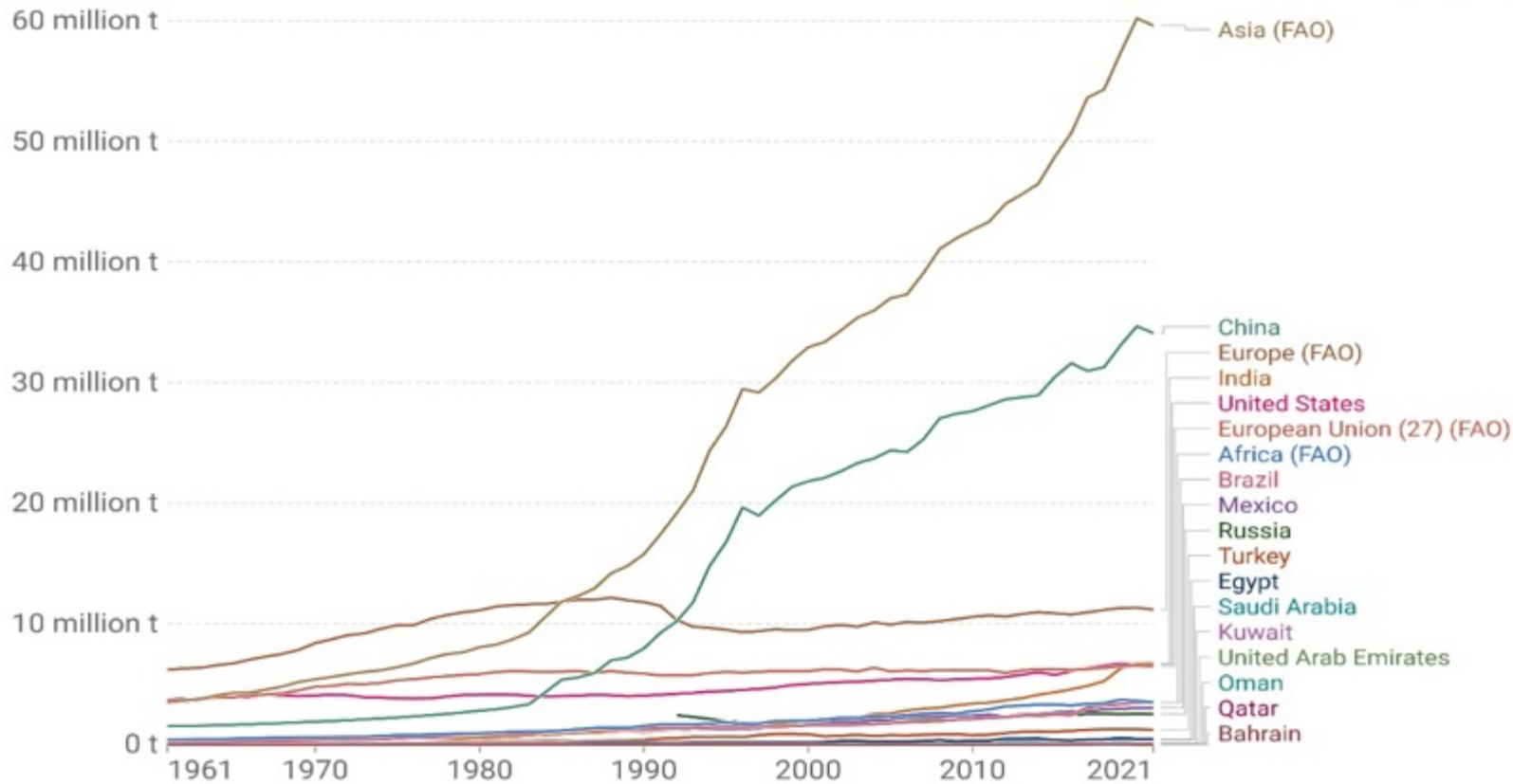
Calories	63
Vitamin A	4%
Vitamin B12	9%
Vitamin D	4%
Vitamin E	2%

It's OK to eat about 3 eggs per day and that 2 to 6 yolks are OK to consume in a given week.

World egg production 1961 - 2021



Egg production, 1961 to 2021



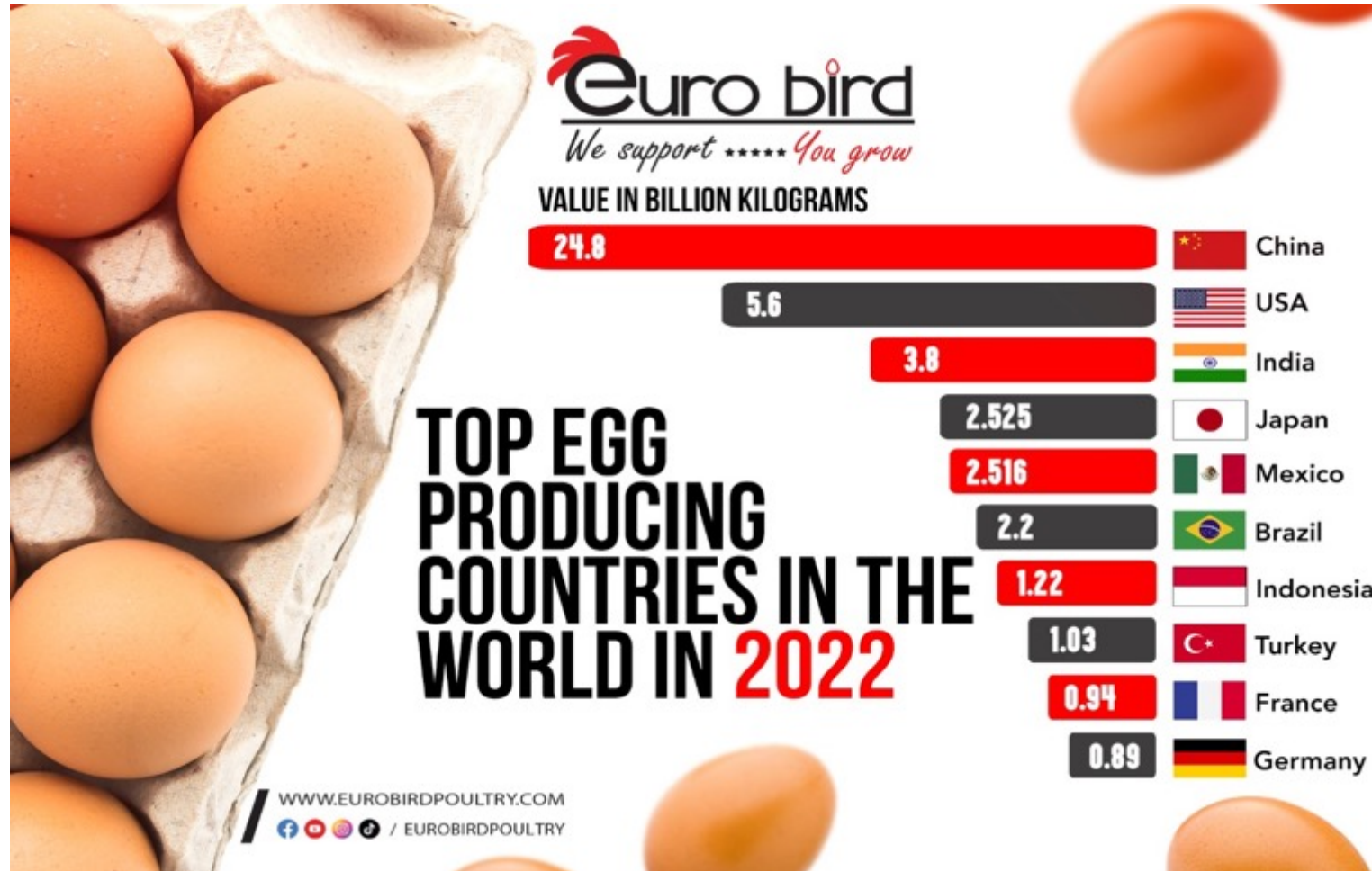
Source: Food and Agriculture Organization of the United Nations
Note: Figures include eggs derived from all domesticated or farmed birds.

OurWorldInData.org/meat-production • CC BY

2021

Asia (FAO)	59.61 million t
China	34.09 million t
Europe (FAO)	11.16 million t
India	6.71 million t
United States	6.64 million t
European Union (27) (FAO)	6.47 million t
Brazil	3.48 million t
Africa (FAO)	3.48 million t
Mexico	3.05 million t
Russia	2.52 million t
Turkey	1.21 million t
Egypt	412,950.40 t
Saudi Arabia	348,241.12 t
Kuwait	77,625.78 t
United Arab Emirates	56,035.01 t
Oman	28,655.00 t
Qatar	9,360.60 t
Bahrain	3,940.48 t

Top egg producing countries worldwide

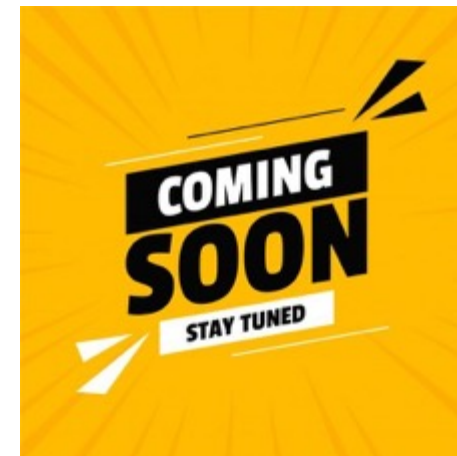


WATTPoultry.com **WORLD'S**
TOP POULTRY COMPANIES

WORLD'S TOP 10 EGG PRODUCERS

RANK	Layers (millions)	Company	Country
1	46.8	Cal-Maine Foods	United States
2	36.0	Proteína Animal (PROAN)	Mexico
3	27.6	Rose Acre Farms	United States
4	22.0	CP Group	Thailand
5	20.6	Beijing Deqingyuan Agricultural Technology Co. Ltd.	China
6	20.0	Hillandale Farms	United States
7	20.0	Ise Inc.	Japan
8	20.0	Versova Holdings L.L.P.	United States
9	15.3	Arab Company for Livestock Development (ACOLID)	Saudi Arabia
10	14.5	Daybreak Foods	United States

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Thank you!





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(Egyptian Market Insights)
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