POULTRY ASIA
06 07 08 SEPTEMBER 2023
SETIA CITY CONVENTION CENTRE

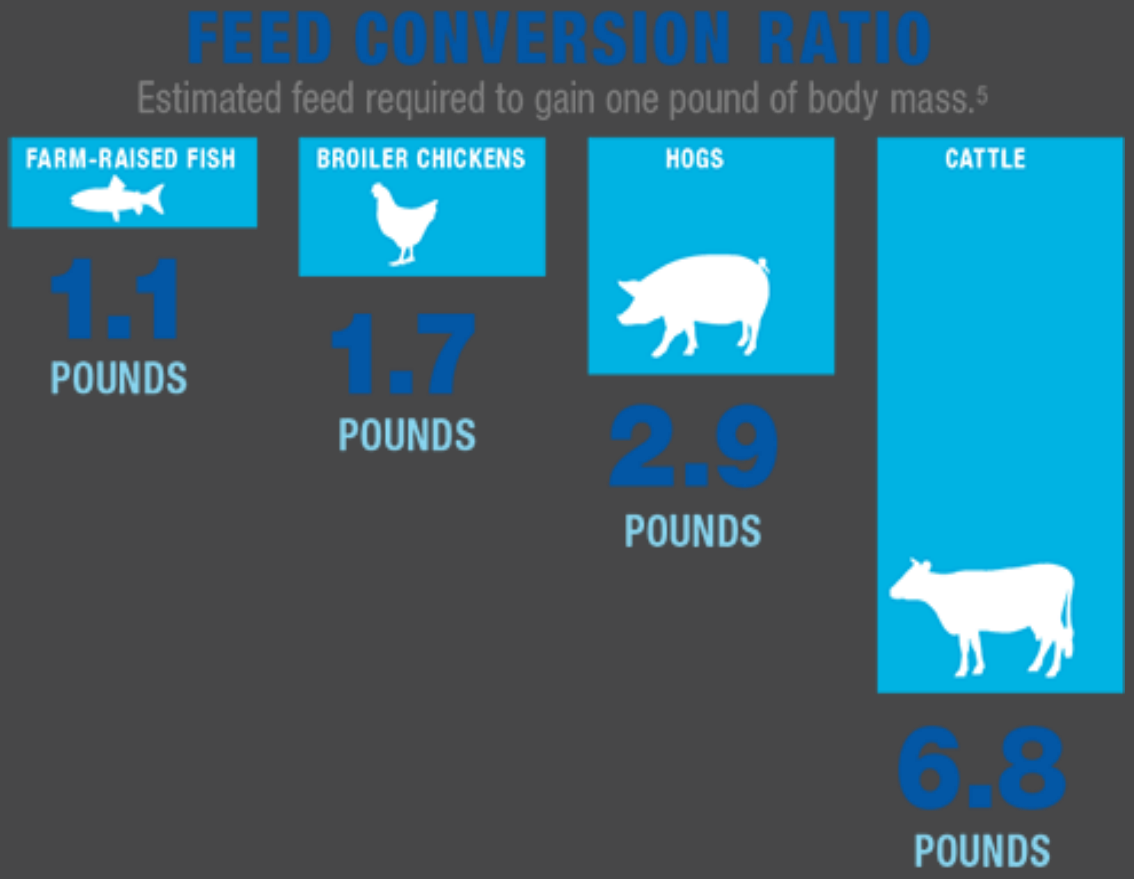
Maximizing profit with a smart poultry farming solution

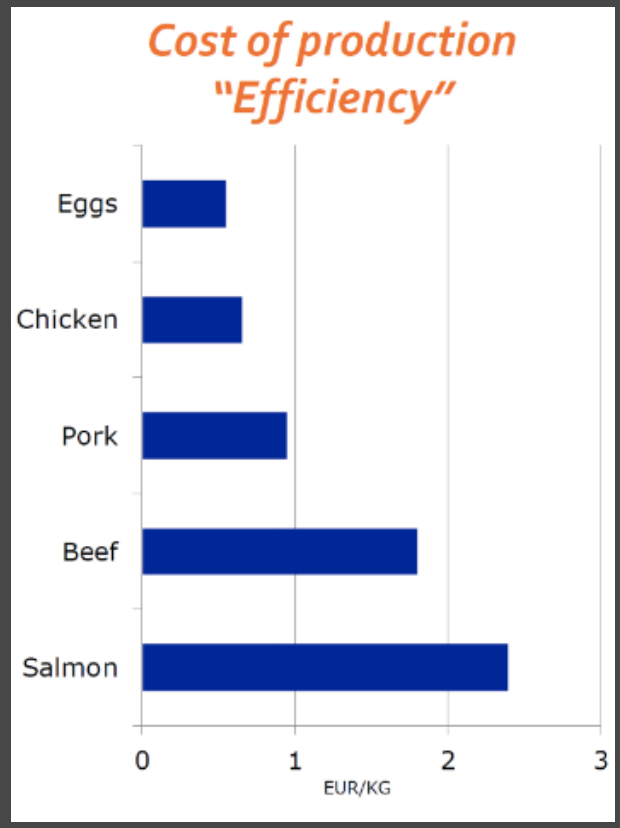
Pieter Brons
Sales Manager

PoultryPlan
TURNS YOUR DATA INTO GROWTH

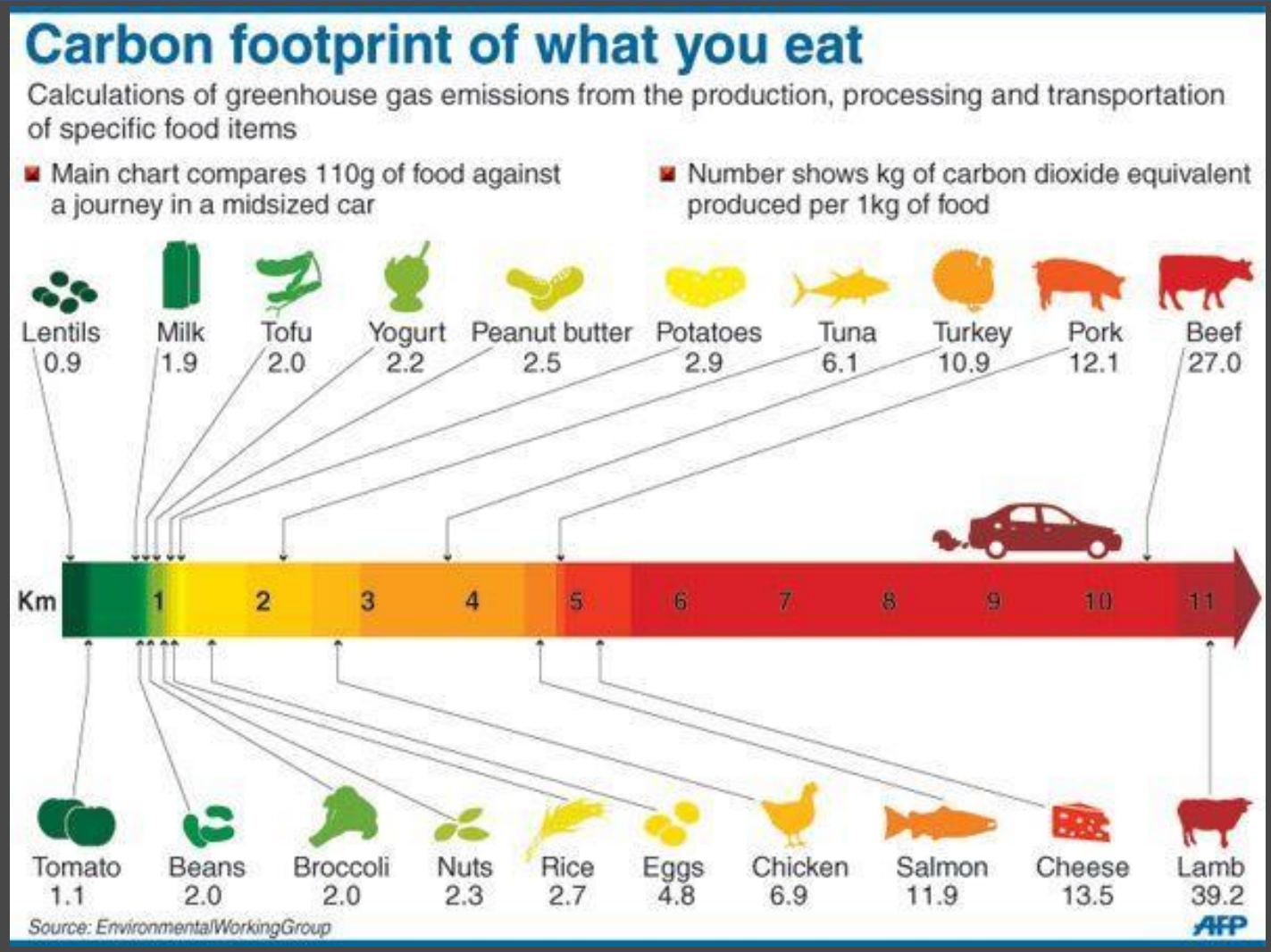
iDIMENSION

Maximizing profit with a smart poultry farming solution





- Most efficiënt source of animal proteine for human consumption;
- Short production cycle and favourable feed conversion

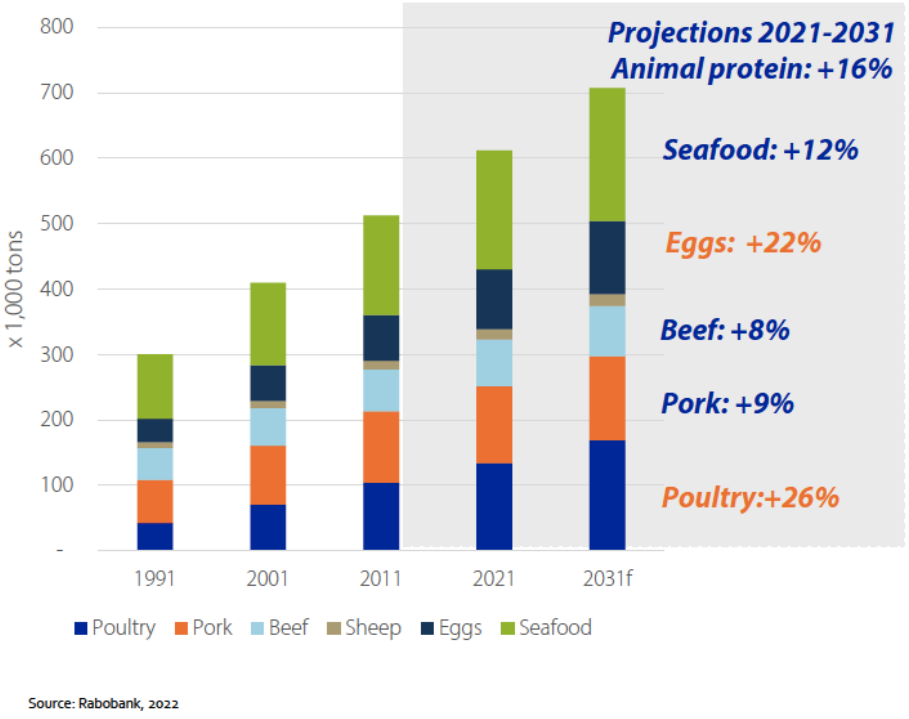


- Low carbon footprint

Global animal protein consumption 2031: +16%

Poultry and eggs the winning protein, but in changing investment perspective

Global protein market 2022-2030



Source: Rabobank, 2022

Long term investment perspective

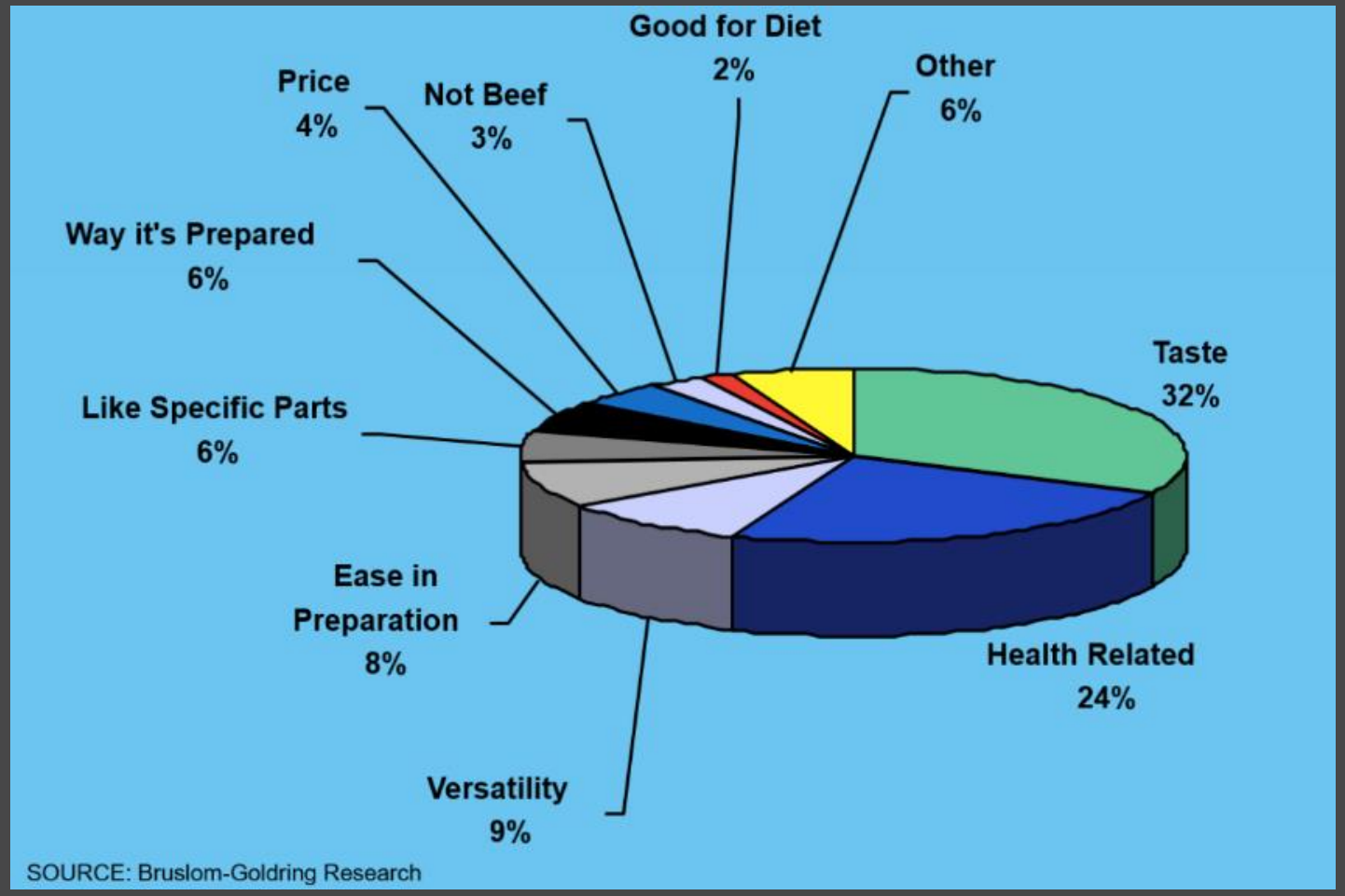
Chicken the winning protein
- Chicken the fastest growing proteins
- Alternative protein will grow fast but from small base
- 85% of growth in emerging markets

Social driven change
- Feeding the world
- Food security
- Food or fuel
- More concepts, meat alternatives – but slower growth?
- Sustainable and climate friendly

Changing supply chains
- More local and customer driven
- More online, digital and smart
- Food security

More consolidation and internationalisation
- Industry to consolidate and integrate
- Relocation of the industry

- Global poultry production is expected to continue to grow.
- As demand for meat and eggs is driven by growing populations, urbanisation and rising incomes.

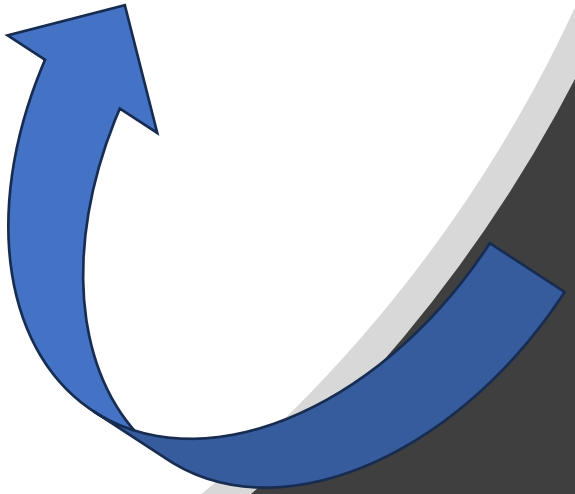


- No religious restrictions
- Favourable animal protein source

- Poultry represent a threat to human health, especially as a vector of infectious diseases, AI.
- Antibiotic resistance.
- Poultry is a large consumer of natural resources (land, water, raw materials for feed).
- Climate change and water pollution.

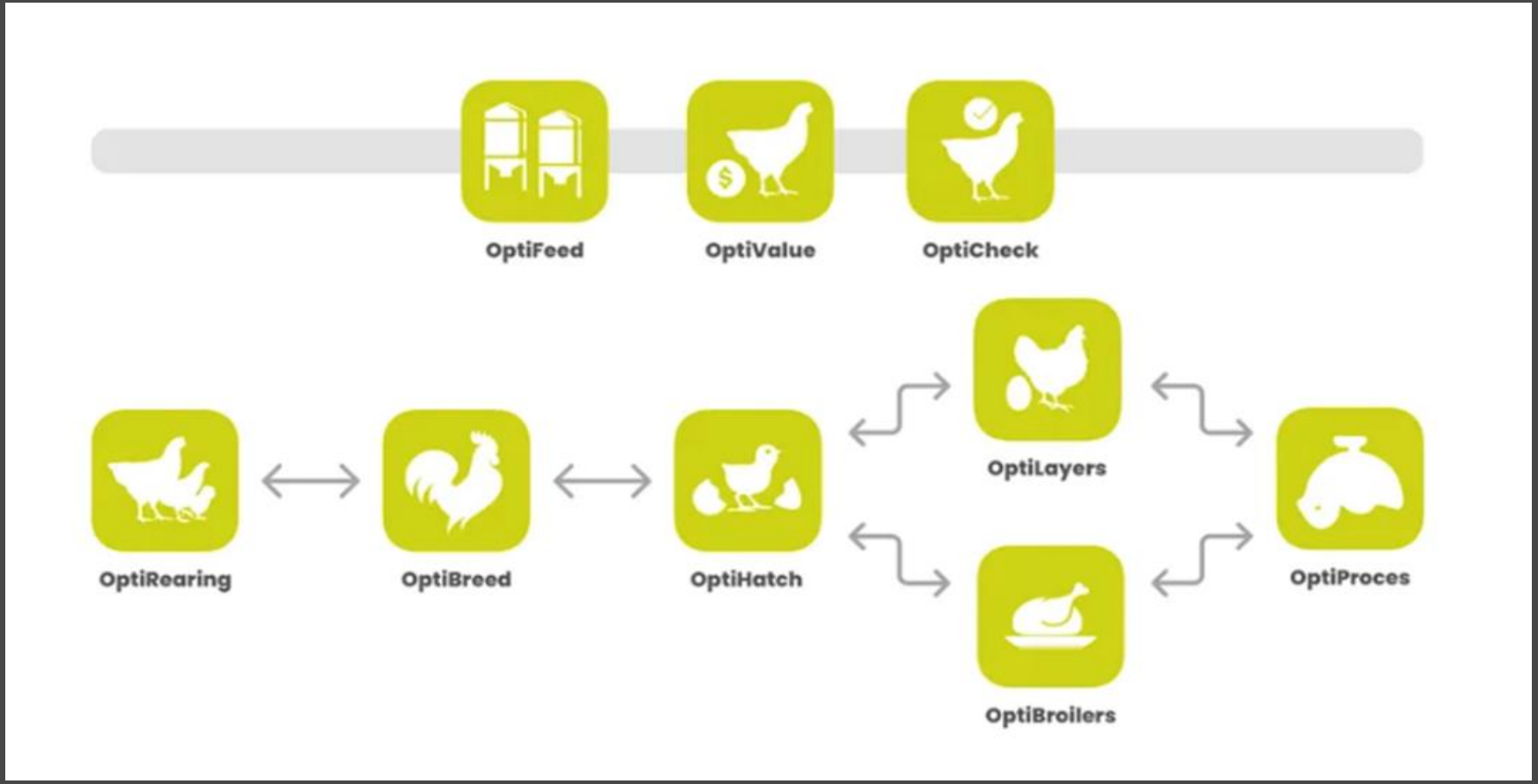
How to deal, and overcome these Challenges?

- No losses in the chain
- Tracking and tracing
- Antibiotic control
- Efficient use of raw materials
- Turn your Poultry Chain upside down



Facilitating a sustainable and profitable poultry production

- How to optimize efficieny in the poultry chain?
- Optimizing per step and over steps in the chain

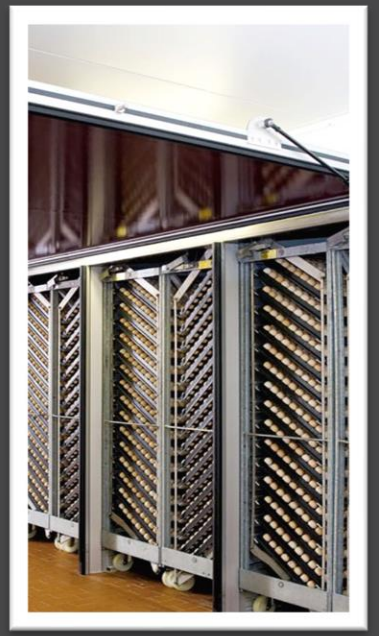


PoultryPlan

PoultryPlan turns the Poultry Chain upside down!

Breeders
When produce the breeders?

Hatchery
When do you need the eggs?



Broilers
When do I need the chicks?

Processing
What weight broilers do you need?

Impressions of a Smart Poultry Farm Solution

Facilitating a sustainable and profitable poultry production

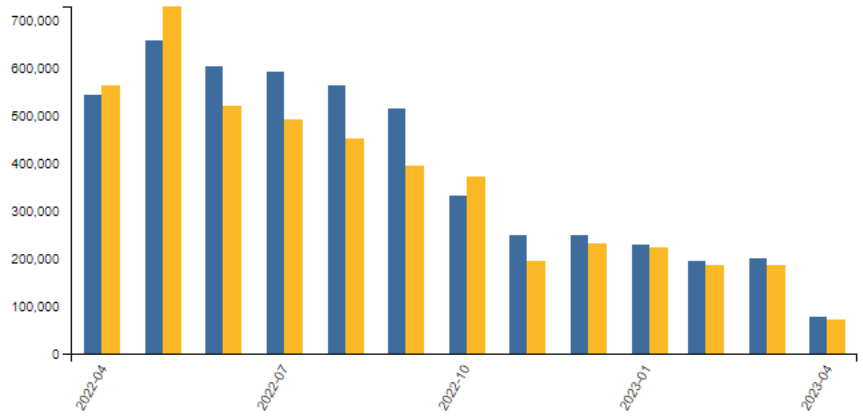
Rearing
Parentstock
Flock set up
Flock set up
Parentstockfarm
Overviews
Forecast
Results
Hatchery
Layers
Egg packing
Broilers
Processor
Feedmill
Orders
Planning
Transport
Basic data
Messages
Reporting
Financial
Documents

Total

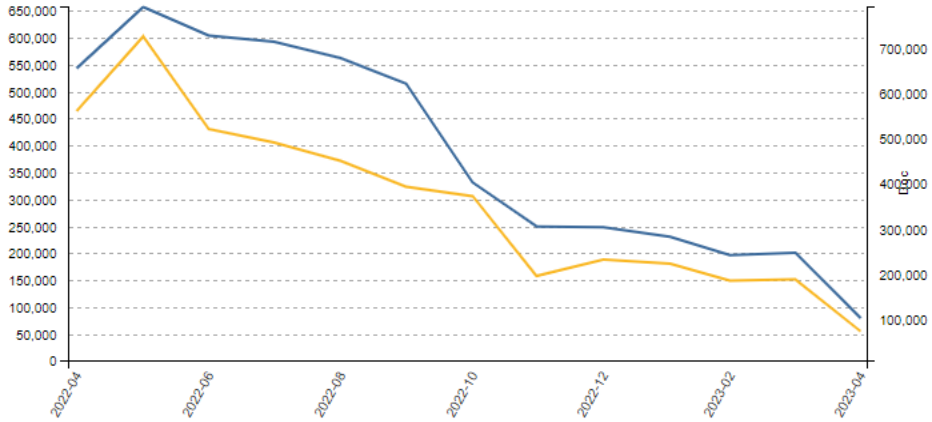
				Expected		Feed (kg)		
Year	Month	Week	Day	Hatching eggs	Doc	Total	Females	Males
2022	4			543.282	561.969	58.624	44.873	13.751
2022	5			656.932	727.097	12.986	0	12.986
2022	6			603.970	521.671	12.852	0	12.852
2022	7			592.416	492.113	13.560	0	13.560
2022	8			562.309	451.111	7.989	0	7.989
2022	9			514.857	393.622	2.540	2.540	0
2022	10			331.663	372.899	47.600	47.600	0
2022	11			249.800	195.659	50.100	50.100	0
2022	12			248.110	231.691	51.670	51.670	0
2023	1			230.690	222.981	51.130	51.130	0
2023	2			196.280	185.497	45.720	45.720	0
2023	3			201.140	187.868	50.140	50.140	0
2023	4			79.680	72.413	20.840	20.840	0

Long term planning:
Hatching eggs
Simulation flocks
Expected no DOC's
Needed feed

Hatching eggs production - Total



Hatching eggs production - Total



Broilers – Planning birds to Slaughterhouse

PoultryPlan ★ BROILERS ▸ O… Rob Giesen

- Rearing
- Parentstock
- Hatchery
- Layers
- Egg packing
- Broilers
  - Flock set up (farmer)
  - Flock set up
  - Broilerfarm
  - **Overviews**
  - Results
- Processor
- FeedPlan
- Orders
- Planning
- Transport
- Basic data
- Messages
- Reporting
- Financial
- Documents
- Admin

Active flocks | Mortality first week | Pests | Backlog tasks | Backlog barn data | Control barn data | Barn occupancy | Cycles | **Forecast weight**

Broilerfarm	Barn	Breed	Date of birth	Measurement date	Day	Processor
BarrieBroilerFeedmillPlanning	Stal 1	Cobb 500 FF, As Hatched	17-09-2022	21-09-2022	5	
WimBroiler	Stal 1	Ross 308 FF, As Hatched	08-08-2022	12-09-2022	36	
RobBroilerfarm3	RobBarn1	Ross 308 FF, As Hatched	01-09-2022	01-09-2022	1	RobProcessor1
BarrieBroiler1	Barn1	Ross 308 SF, As Hatched	14-07-2022	21-07-2022	8	
BarrieBroiler2	Broiler2Stal1	Ross 308 FF, As Hatched	26-02-2022	28-02-2022	3	BarrieProcessorLilydale
BarrieBroiler1	Barn1	Ross 308 FF, As Hatched	27-02-2022	28-02-2022	2	BarrieProcessorPollon
BarrieBroiler1	Barn3	Ross 308 FF, As Hatched	27-02-2022	28-02-2022	2	BarrieProcessorPollon
BarrieBroiler2	Broiler2Stal1	Ross 308 SF, Female	12-01-2022	13-01-2022	2	
Broilerfarm1	Barn 1	Cobb 500 FF, As Hatched	27-12-2021	29-12-2021	3	BarrieSLAUGHTER
BarrieBroiler2	Broiler2Stal1	Hubbard Efficiency, As Hatched	03-11-2021	09-11-2021	7	
BarrieBroiler2	Broiler2Stal1	Ross 308 SF, As Hatched	10-10-2021	13-10-2021	4	
BarrieBroiler2	Broiler2Stal2	Ross 308 SF, As Hatched	13-08-2021	21-08-2021	9	
Flattorp1	Flattorp house 1	Arbor Acres Plus FF, As Hatched	02-06-2021	15-07-2021	44	
BarriesBroilerFarm	Stal 1	Ross 308 SF, As Hatched	15-07-2021	15-07-2021	1	BarrieSLAUGHTER
BarriesBroilerFarm	Stal 1	Ross 308 SF, As Hatched	15-07-2021	15-07-2021	1	

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Date	Day	Body weight (gr)	Standard	Number end	Standard
11-10-2022	45	3.148	3.207		
10-10-2022	44	3.055	3.112		
09-10-2022	43	2.960	3.015		
08-10-2022	42	2.865	2.918		
07-10-2022	41	2.769	2.821		
06-10-2022	40	2.673	2.723		
05-10-2022	39	2.577	2.625		
04-10-2022	38	2.481	2.527		
03-10-2022	37	2.385	2.430		
02-10-2022	36	2.290	2.332	20.000	
01-10-2022	35	2.200	2.235	20.000	
30-09-2022	34	2.100	2.138	20.000	
29-09-2022	33	2.020	2.041	20.000	
28-09-2022	32	1.925	1.946	20.000	
27-09-2022	31	1.850	1.851	20.000	
26-09-2022	30	1.750	1.757	20.000	
25-09-2022	29	1.640	1.664	20.000	
24-09-2022	28	1.520	1.573	20.000	
23-09-2022	27	1.400	1.483	20.000	
22-09-2022	26	1.300	1.395	20.000	
21-09-2022	25	1.275	1.309	20.000	
20-09-2022	24	1.200	1.225	20.000	
19-09-2022	23	1.120	1.142	20.000	
18-09-2022	22	1.050	1.062	20.000	
17-09-2022	21	975	985	20.000	
16-09-2022	20	900	910	20.000	

Planning of broilers for processing plant

- **actual- and expected number of broilers**
- **actual- and expected body weight**
- **Actual and expected quality of broilers**

Rearing
Parentstock
Layers
Broilers
FeedPlan
Inventory
Orders
Transport
Overviews
Planning
Results
Basic data
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Documents

Consumption

Location type: Broilerfarm | Farm | Next days: 7 | Include processed | Select

Farm	Rep.	Flock	Prescription	Placed	Shipped	Shutoff	Time	Housed	Current	Age	Bin	Performance	Feedcode	Stock (kg)	Schedule	Remark
Broilerfarm3	GU	167		11-05-2022	16-06-2022			20.000	20.000	16	Bin A	101 %	BRG01	-8.097	Organic Broiler East Feedschedule	

	Age	Date	Bin	Feed group	Feedcode	Stock adjustment (Begin day)	Stock driver (Begin day)	Draft	Orders	Feed intake (kg)	Stock (kg) (End day)	Invoice number
mo		09-05-2022	Bin A (45.000)	Broiler Starter	BRS01	+	+	+	APPROVED 3.000	0	3.000	IN1251123
tu		10-05-2022			BRS01	+	+	+		0	3.000	
we		11-05-2022			BRS01	+	+	+		0	3.000	
th	1	12-05-2022			BRS01	+	+	+		0	3.000	
fr	2	13-05-2022			BRS01	+	+	+		282	2.718	
sa	3	14-05-2022			BRS01	+	+	+		363	2.355	
su	4	15-05-2022			BRS01	+	+	+	RESTOCK	444	1.911	
mo	5	16-05-2022			BRS01	+	+	+		545	1.366	
tu	6	17-05-2022			BRS01	+	+	+		626	740	
we	7	18-05-2022			BRS01	+	+	+		707	33	
th	8	19-05-2022			BRS01	+	+	+		808	-775	
fr	9	20-05-2022			BRS01	+	+	+		909	-1.684	
sa	10	21-05-2022			BRS01	+	+	+		989	-2.673	
su	11	22-05-2022		Broiler Grower	BRG01	+	+	+	RESTOCK	1.090	-1.090	
mo	12	23-05-2022			BRG01	+	+	+		1.191	-2.281	
tu	13	24-05-2022			BRG01	+	+	+		1.292	-3.573	
					BRG01	+	+	+		1.393	-4.966	
					BRG01	+	+	+		1.515	-6.481	
					BRG01	+	+	+		1.616	-8.097	
					BRG01	+	+	+		1.717	-9.814	
					BRG01	+	+	+		1.838	-11.652	
					BRG01	+	+	+		1.939	-13.591	
					BRG01	+	+	+		2.060	-15.651	
					BRG01	+	+	+		2.181	-17.832	
					BRG01	+	+	+		2.282	-20.114	
					BRG01	+	+	+		2.403	-22.517	
					BRG01	+	+	+		2.504	-25.021	
					BRG01	+	+	+		2.626	-27.647	
mo	26	06-06-2022			BRG01	+	+	+		2.747	-30.394	
tu	27	07-06-2022			BRG01	+	+	+		2.848	-33.242	
we	28	08-06-2022			BRG01	+	+	+		2.969	-36.211	
th	29	09-06-2022			BRG01	+	+	+		3.070	-39.281	

Feed order forecasting based on:
- Locations & bins
- Flocks (number, breed)
- Feed product range
- Standards for FCR per breed

Feed consumption, available stock per day per barn is displayed.

Automatic feed order proposal by PoultryPlan. Moment and quantity.

PoultryPlan

Dashboard Rearing - Manager | General User

Rearing
- Flock set up
- Flock set up
- Rearingfarm
- Overviews
- Financial
- Results

Parentstock
- Flock set up
- Flock set up
- Parentstockfarm
- Overviews
- Financial
- Results

Hatchery

Layers

Egg packing

Broilers
- Flock set up
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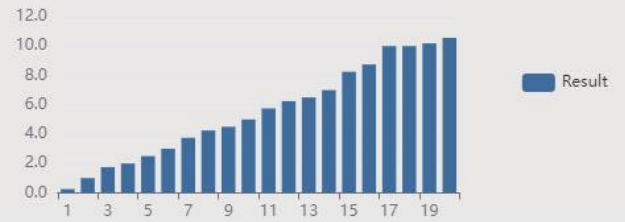
Processor

FeedPlan

Results

RearingGPS1 - House1 (271) | Mortality % cum.



Dashboard

Mortality % cum. | Date data: 23-05-2023

Day	Rearingfarm	Barn	Res.	Std.
119 (week: 17)	RearingLayers1	Barn 1 (birds: 16.065)	4,4	4,5
133 (week: 19)	RearingLayers2	Barn 1 (birds: 16.266)	1,8	4,9
119 (week: 17)	RearingLayers3	Barn 1 (birds: 6.359)	9,1	4,5
70 (week: 10)	RearingPS1	Barn 1 (birds: 35.459)	1,7	2,9
70 (week: 10)	RearingPS1	Barn 1 (birds: 3.042)	6,4	2,9
140 (week: 20)	RearingPS2	Barn 1 (birds: 3.996)	0,0	1,9
140 (week: 20)	RearingPS3	Barn 1 (birds: 3.992)	0,0	

Pages [1 / 3] : 1 2 3 Next Last Number: 20

Backlog tasks (81)

Plan date	Location	Task
25-09-2019	RearingPS2	IB 4-91
25-09-2019	RearingPS3	IB 4-91
29-09-2019	RearingPS2	Take blood sample
29-09-2019	RearingPS3	Take blood sample
24-10-2019	RearingPS2	Bursa Plus
24-10-2019	RearingPS3	Bursa Plus

Pages [1 / 14] : 1 2 3 4 5 6 7 8 9 10 11 12 13 14 Next

Backlog barn data (20)

Rearingfarm	Cycle	Barn	Entered up to	Days backlog
RearingLayers3	258	Barn 1	04-02-2020	1204
RearingPS2	242	Barn 1	11-02-2020	1197
RearingPS2	242	Barn 2	11-02-2020	1197
RearingPS2	242	Barn 3	11-02-2020	1197
RearingPS3	243	Barn 1	11-02-2020	1197

Pages [1 / 4] : 1 2 3 4 Next Last

Control barn data

Rearingfarm	Cycle	Barn	Date	Warning

No data found

Messages

01-03-2022

Training program for Feedmill employees

We will be hosting a course for the new feedmill employees, during this coarse we

How to use

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PoultryPlan

TMD: Meat Production

PoultryPlan

Broilers Farm Monitor Pro

- Broilers
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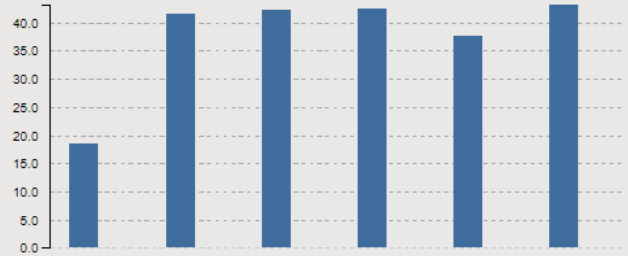
Hatch results

Hatch %



Dashboard

Body weight

Date data: 05/24/2022

Broilerfarm	Day	Barn	Result	Selection
Broilerfarm2	42 (week: 7)	Barn 2 (birds: 17,649)	2,957	-1.92 %
Broilerfarm1	37 (week: 6)	Barn 1 (birds: 14,685)	2,549	-0.89 %
Broilerfarm3	42 (week: 7)	Barn 1 (birds: 18,000)	3,013	-0.07 %

Pages [1 / 3]: 1 2 3 Next Last Number: 8

Locations expecting orders

Broilerfarm 2

Farm	Flock	Bin	Feedcode	Stock (kg)
[redacted]	Bin 2	Bin 2	22561	9.116
[redacted]	Bin 11	Bin 11	22561	5.196
[redacted]	Bin 13	Bin 13	22561	5.146
[redacted]	Bin 14	Bin 14	22561	5.146
[redacted]	Bin 15	Bin 15	22561	5.146
[redacted]	Bin 2	Bin 2	22321	10.446
[redacted]	Bin 1	Bin 1	22561	6.069
[redacted]	Bin 2	Bin 2	22561	6.069
[redacted]	Bin 3	Bin 3	22561	6.695
[redacted]	Bin 4	Bin 4	22561	8.787
[redacted]	Bin 3	Bin 3	22321	6.642
[redacted]	Bin 1	Bin 1	22561	8.226
[redacted]	Bin 3	Bin 3	22561	8.530
[redacted]	Bin 12	Bin 12	22591	-
[redacted]	Bin 2	Bin 2	22561	3.757
[redacted]	Bin 1	Bin 1	22591	-
[redacted]	Bin 6	Bin 6	22561	3.451
[redacted]	Bin 21	Bin 21	22561	3.608
[redacted]	Bin 22	Bin 22	22561	4.727

Pages [1 / 2]: 1 2

Current capacity

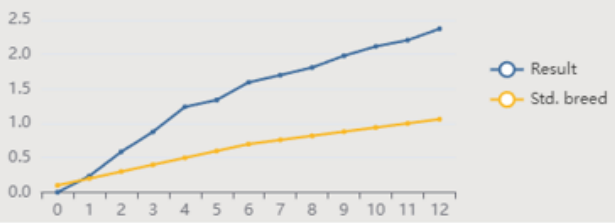
HatcheryBroilers1

Name	Type	Cap.	Occ.	Available	%
Chicken Storage 1	Chicken Storage	120.000		120.000	100 %
Chicken Storage 2	Chicken Storage	120.000		120.000	100 %
Hatcher 1	Hatcher	150.000	5.662	144.338	96 %
Hatcher 2	Hatcher	150.000		150.000	100 %
Setter 1	Setter	200.000	3	199.997	100 %

Pages [1 / 2]: 1 2 Next Last Number: 6

Results

Farm 4 - Shed 44 (B2116) Mortality % cum.



By monitoring the weight, feed intake and water intake a better performance will be achieved.

How to use

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TMD: Egg Production

PoultryPlan

PoultryPlan

Broilers Farm Monitor Pro

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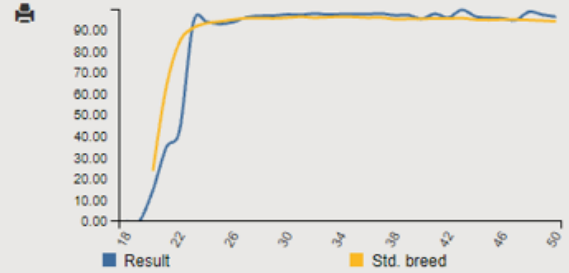
Results

House1 (Layerfarm1, batch: 212) | Laying %



Dashboard

Laying percentage

- Laying percentage
- Mortality percentage
- Feed per bird per day (gr)
- Egg per bird per day cum.
- Egg weight
- Body weight

Date data: 04-10-2021

		Result	Rel. to std. breed
341 (week: 49)	House1 (birds: 4.859)	83,9	
341 (week: 49)	House2 (birds: 5.807)	83,3	
341 (week: 49)	House3 (birds: 4.864)	83,6	

Locations expecting orders

Broilerfarm | 2

Farm	Flock	Bin	Feedcode	Stock (kg)
[redacted]	Bin 2	Bin 2	22561	9.116
[redacted]	Bin 11	Bin 11	22561	5.196
[redacted]	Bin 13	Bin 13	22561	5.146
[redacted]	Bin 14	Bin 14	22561	5.146
[redacted]	Bin 15	Bin 15	22561	5.146
[redacted]	Bin 2	Bin 2	22321	10.446
[redacted]	Bin 1	Bin 1	22561	6.069
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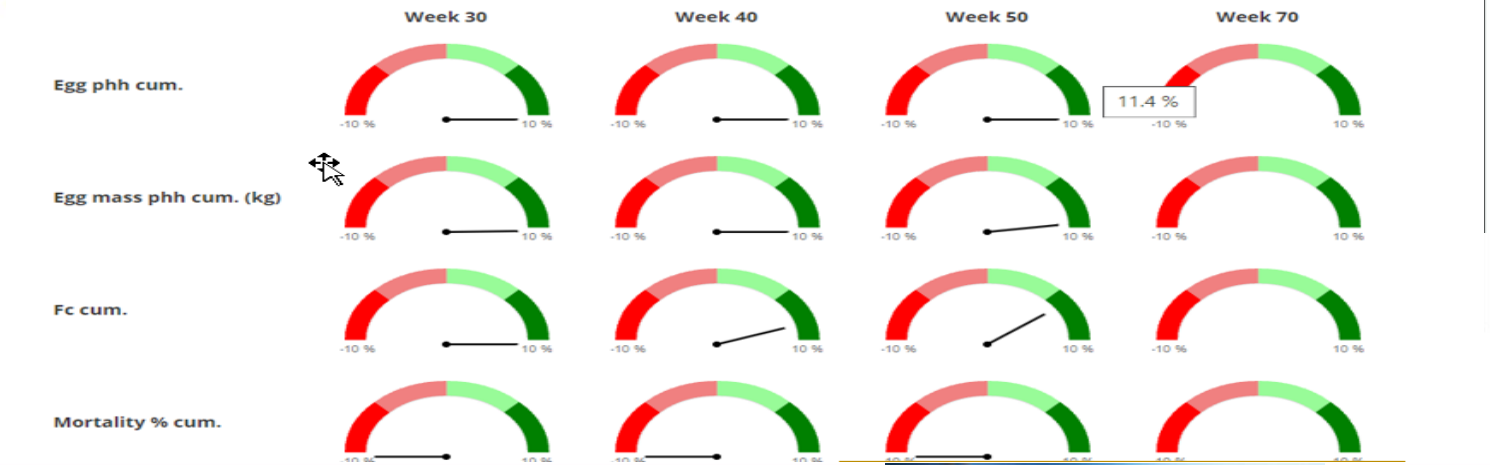
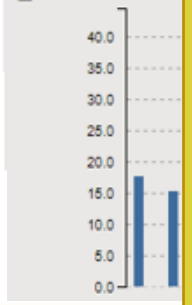
[redacted]	Bin 3	Bin 3	22561	6.695
[redacted]	Bin 4	Bin 4	22561	8.787
[redacted]	Bin 3	Bin 3	22321	6.642
[redacted]	Bin 1	Bin 1	22561	8.226
[redacted]	Bin 3	Bin 3	22561	8.530

Flock * 70: Lohmann LSL Classic, Commer | Batch * 212: House1 | Born from | Born up to | Select



Hatch results

Hatch %



By monitoring several kpi's it is expected that the hatchability will improve.

How to use

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Maximizing profit with a smart poultry farming solution

Potential gains:

- Improve hatchability with 2% brings €150.000,-- or MYR 755.400,-- for a hatchery with a capacity of 500.000 eggs per week.
- 5% less feed costs through better planning.
- Less weight loss through better transport planning, brings 200.000 kg's for a processing plant of 200.000 broilers per day.
- 2% lees empty shackles through better live bird planning, brings € 250.000 or MYR 1.260.000 for an abattoir of 200.000 broilers per day.

Thank you for your attention!

Questions?

POULTRY ASIA
06 07 08 SEPTEMBER 2023
SETIA CITY CONVENTION CENTRE