



ROBUST RESULTS

UPDATE BOVANS WHITE

Gosse Veninga

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The BOVANS White today

- **Flat egg weight curve**
- **Superior egg production**
- **Robust and easy to manage**
- **Exceptional balanced bird**
- **Strong bottom line results**

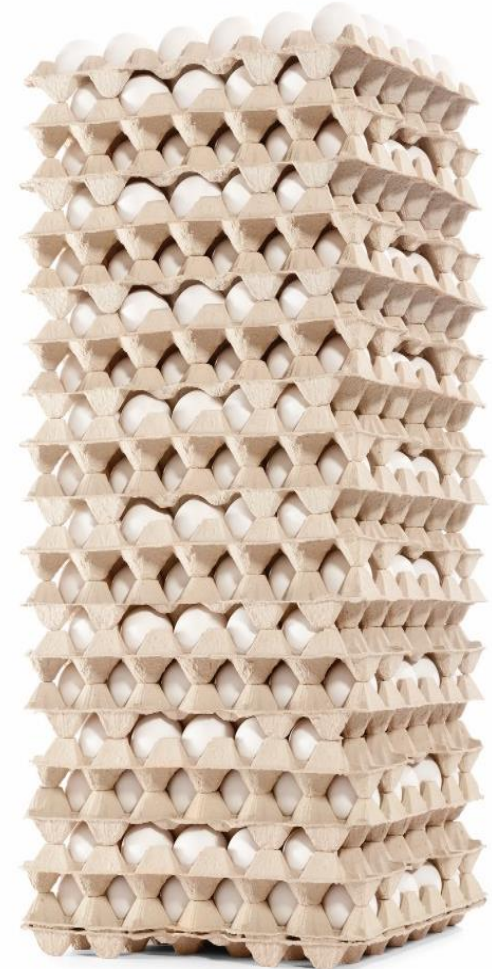
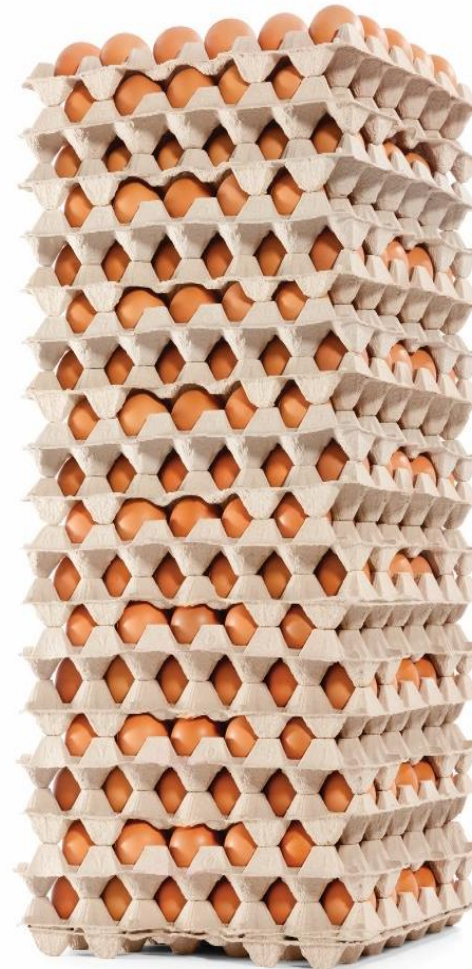




Starting with a general overview...



Our focus: 500 1st Quality eggs per hen housed in 100 weeks...



What have we realized in the last 10 – 20 years?

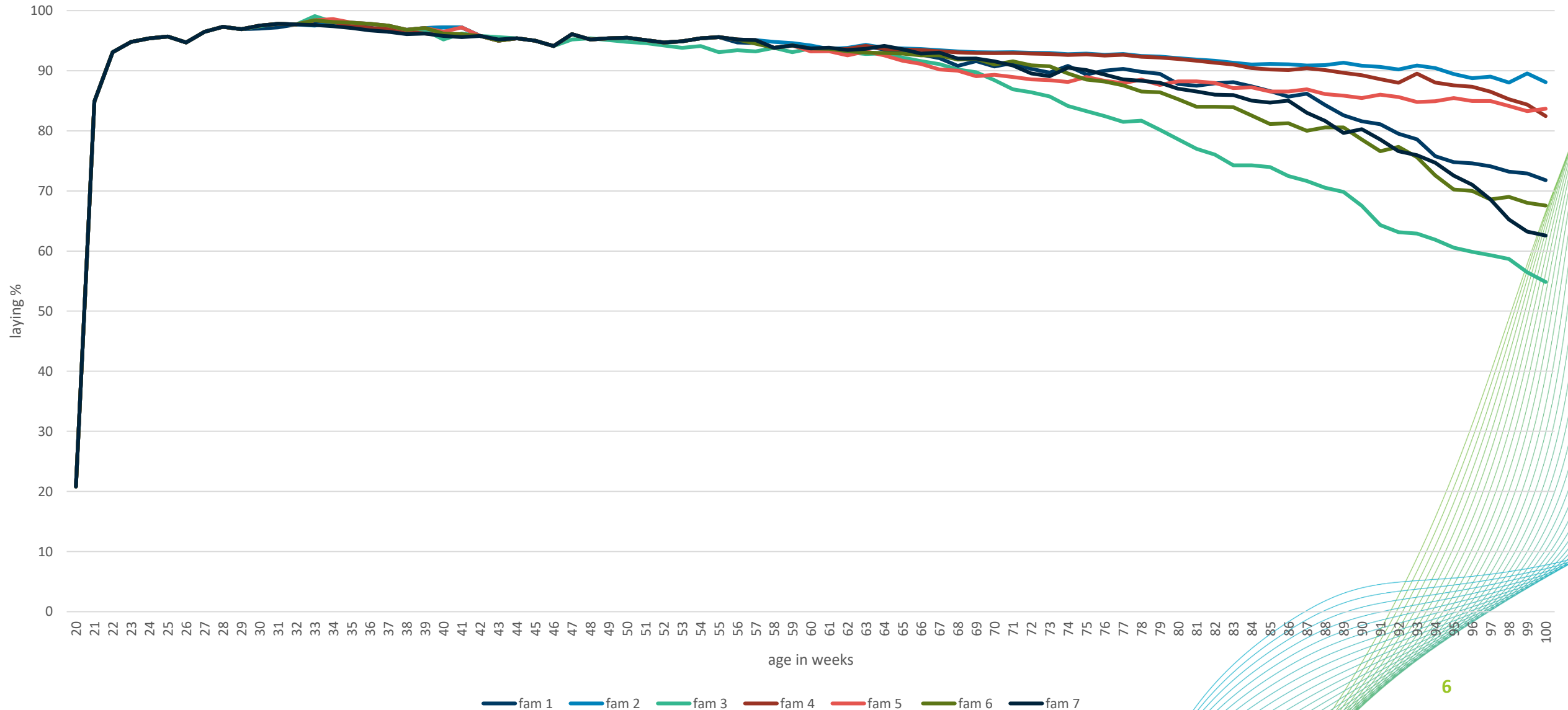
- Persistency of egg production
- Liveability +++ (good performance under field conditions)
- Egg shell quality (until 100 weeks)
- Flat egg weight curve

4 key components to realize most # 1st Quality eggs
(per hen housed)

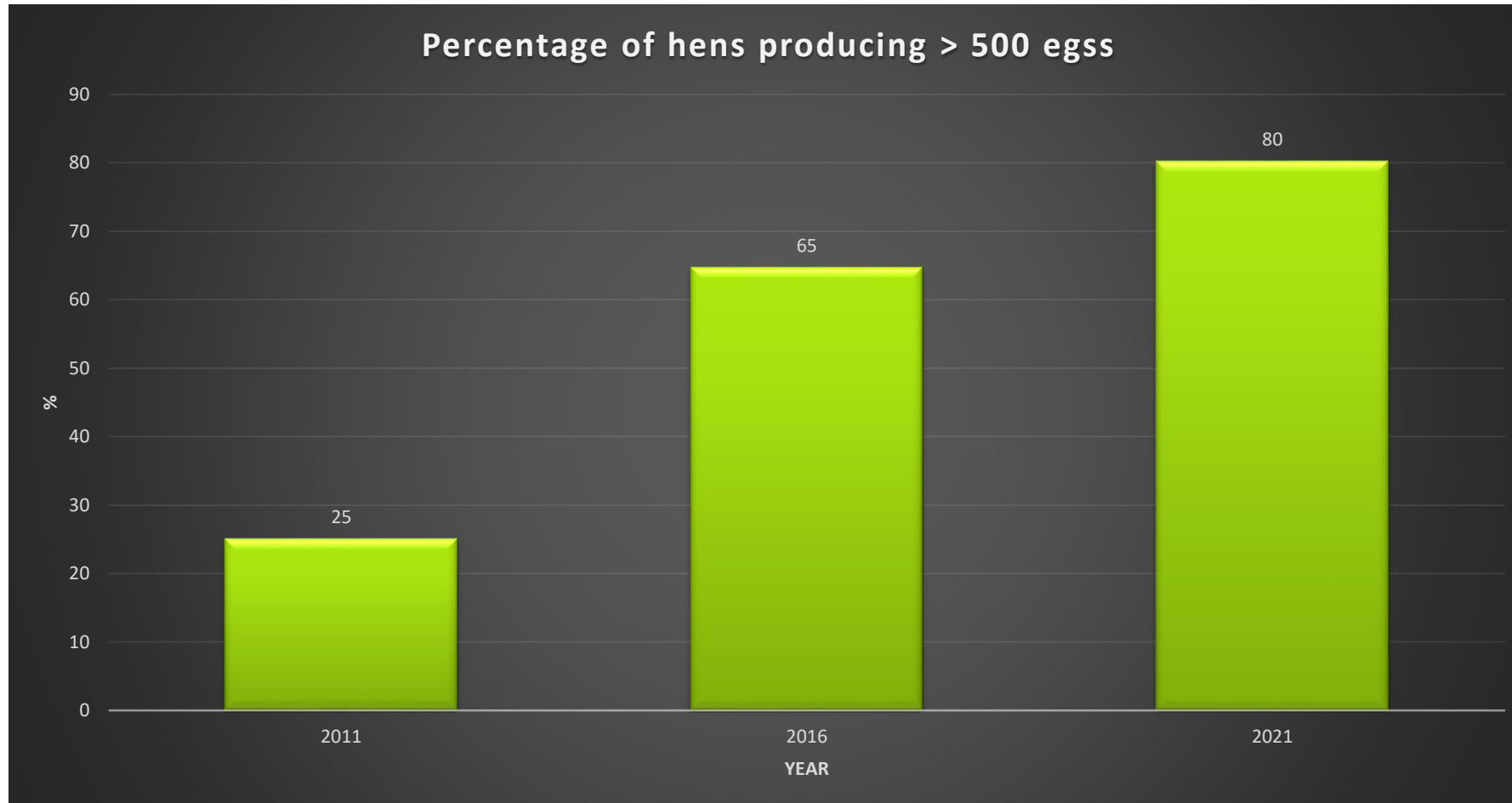


Today's breeding program

breeding program up to 100 weeks of age



Development of birds producing > 500 eggs – White (until 100 weeks)



Improving livability: breeding the “social” hen

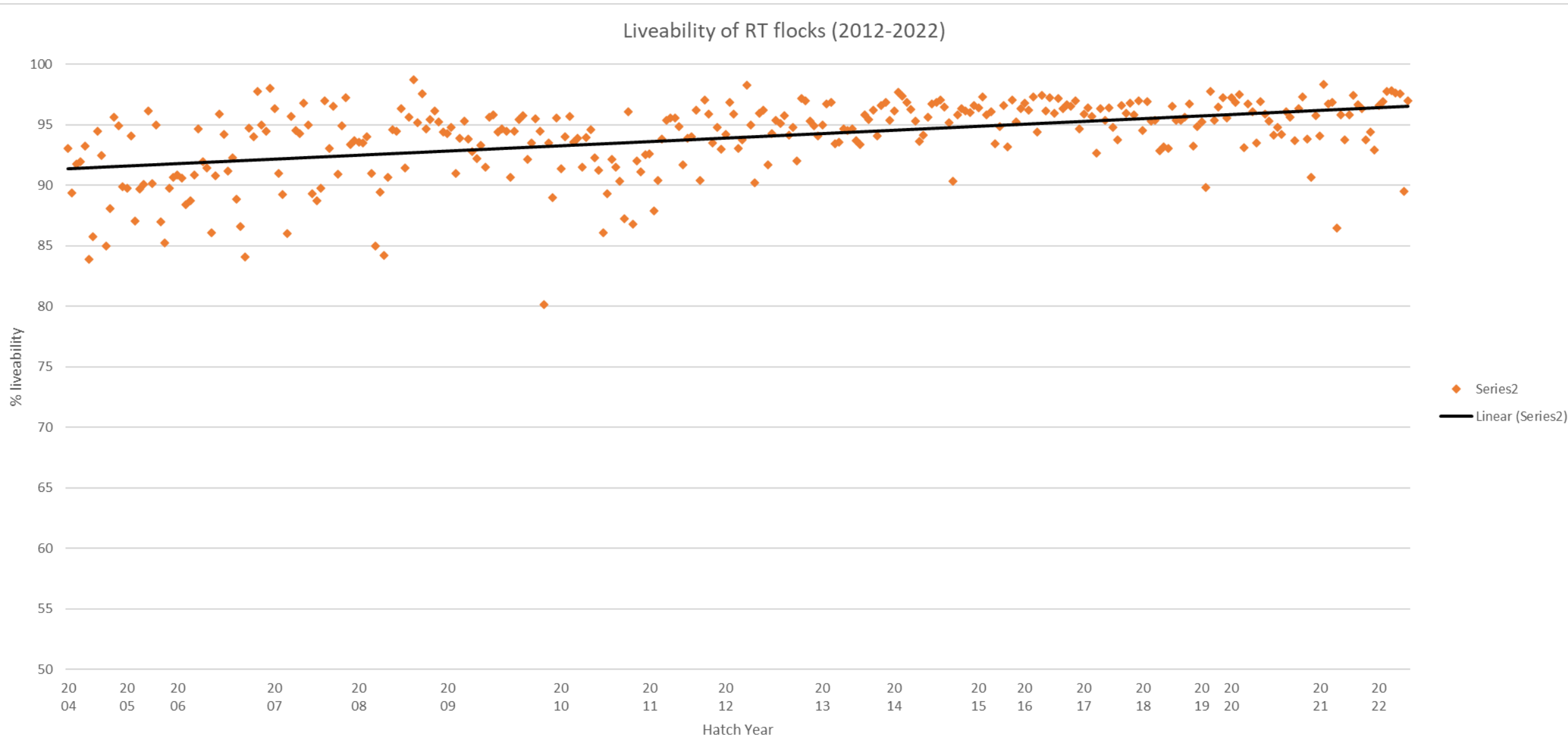
Challenging the birds via their environment:

- Different bird densities
- Different light intensity
- Intact beaks

Goal: to identify the “Social” families with good production and use these families as parents for future generations



Phenotypic trend: Liveability at 80 wks (RT flocks 2004-2022)

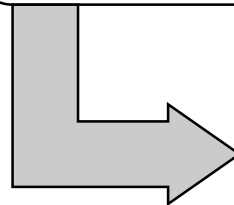




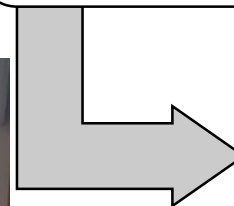
Focus on hatchability



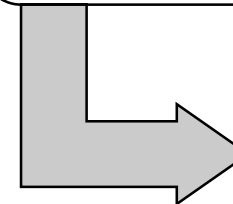
Egg
collection



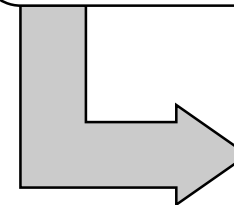
Egg printer



PhotoBox in
hatchery



Storage in
database

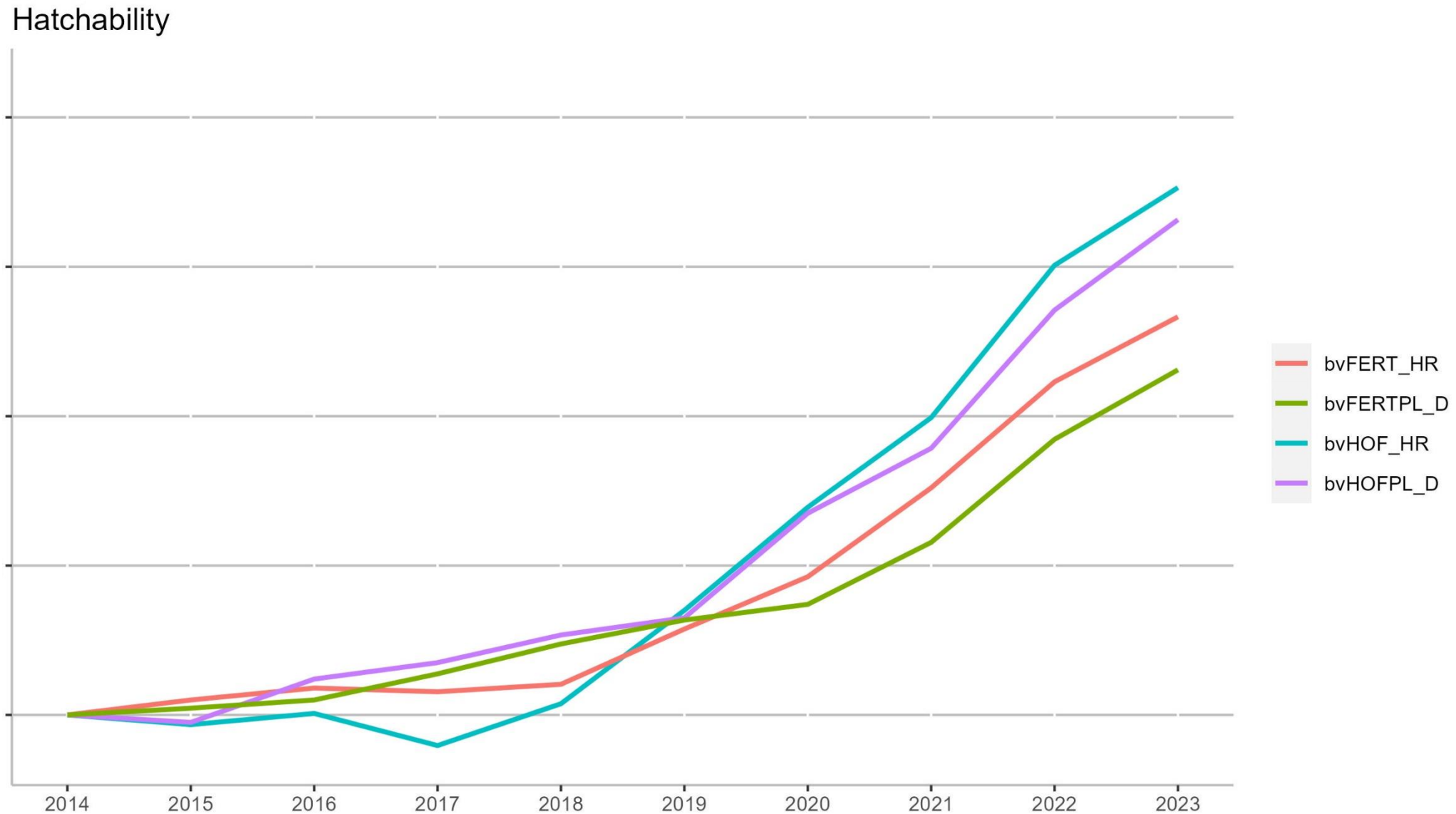


Hatchability
Data use for
business



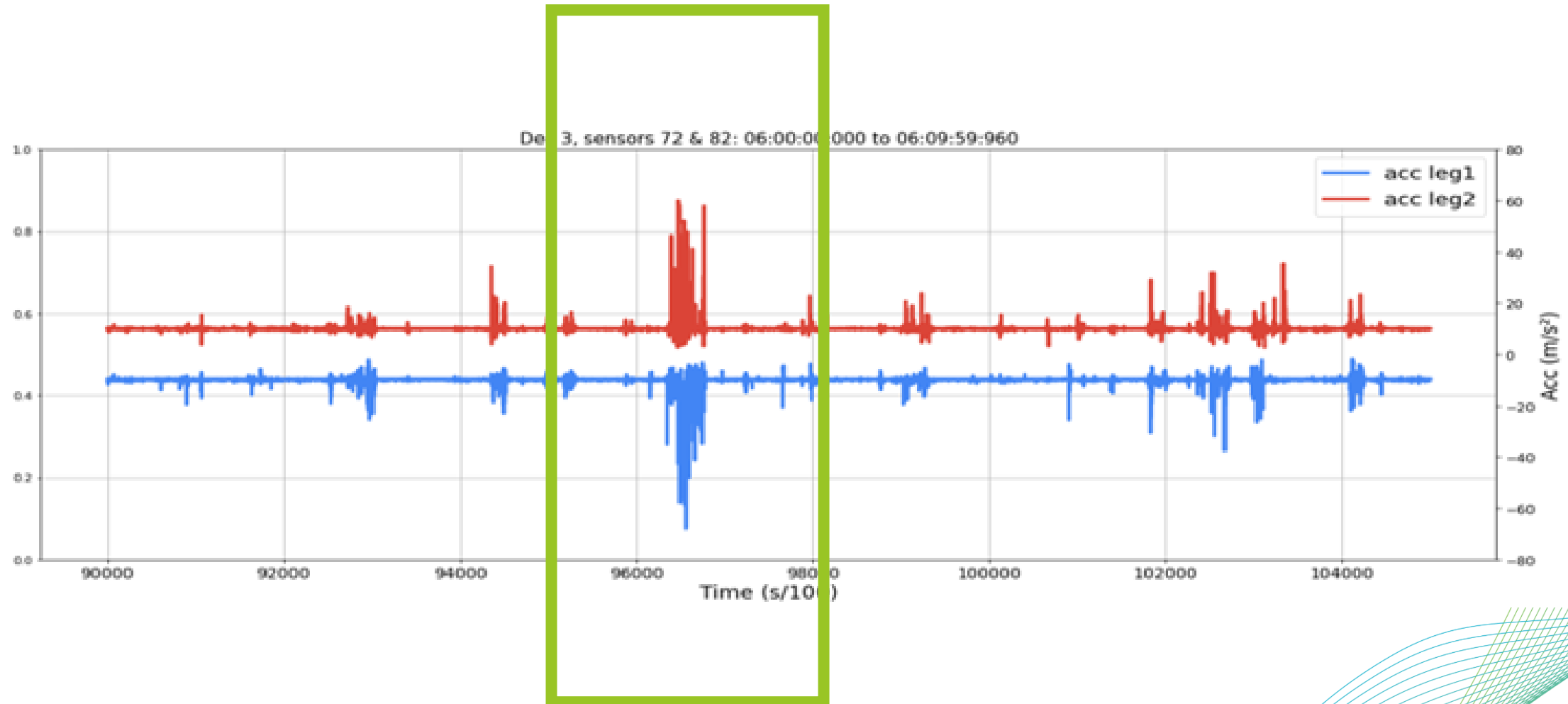
2. Genetic trends - examples

1. Hatchability traits female lines





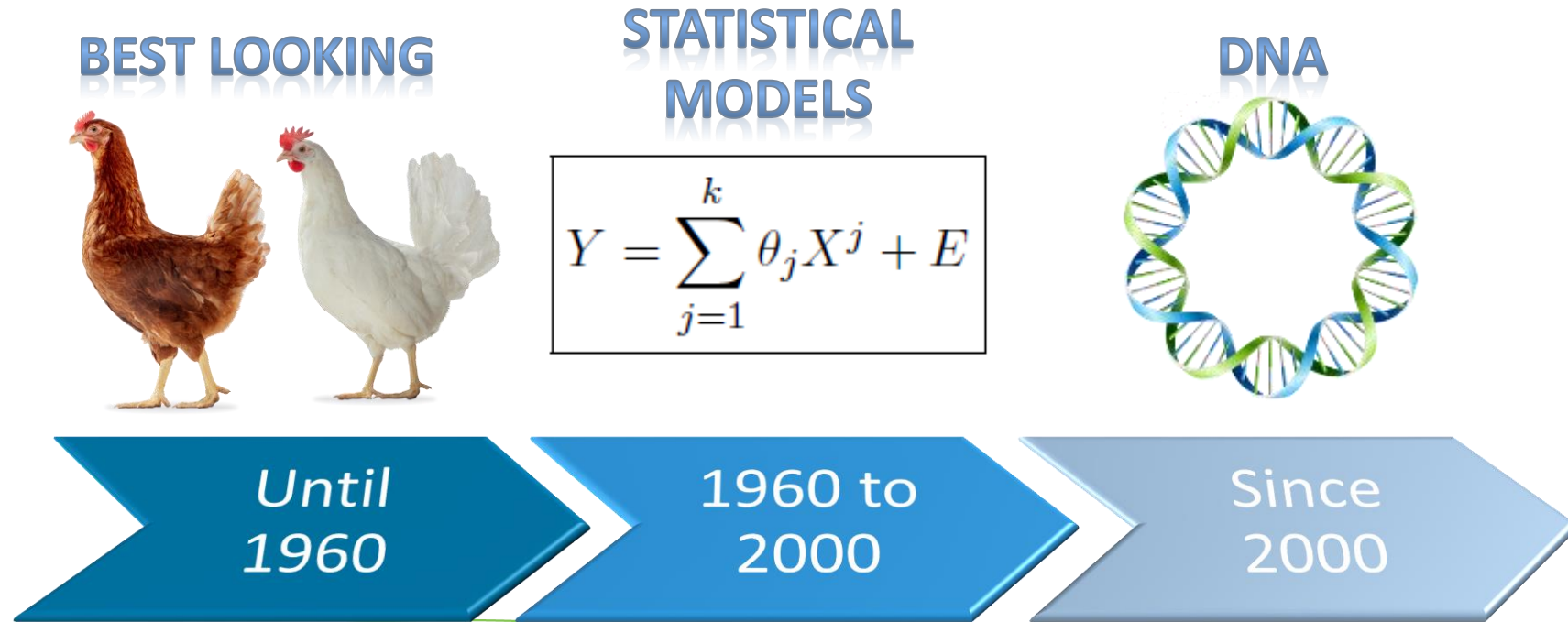
Detection of a mating



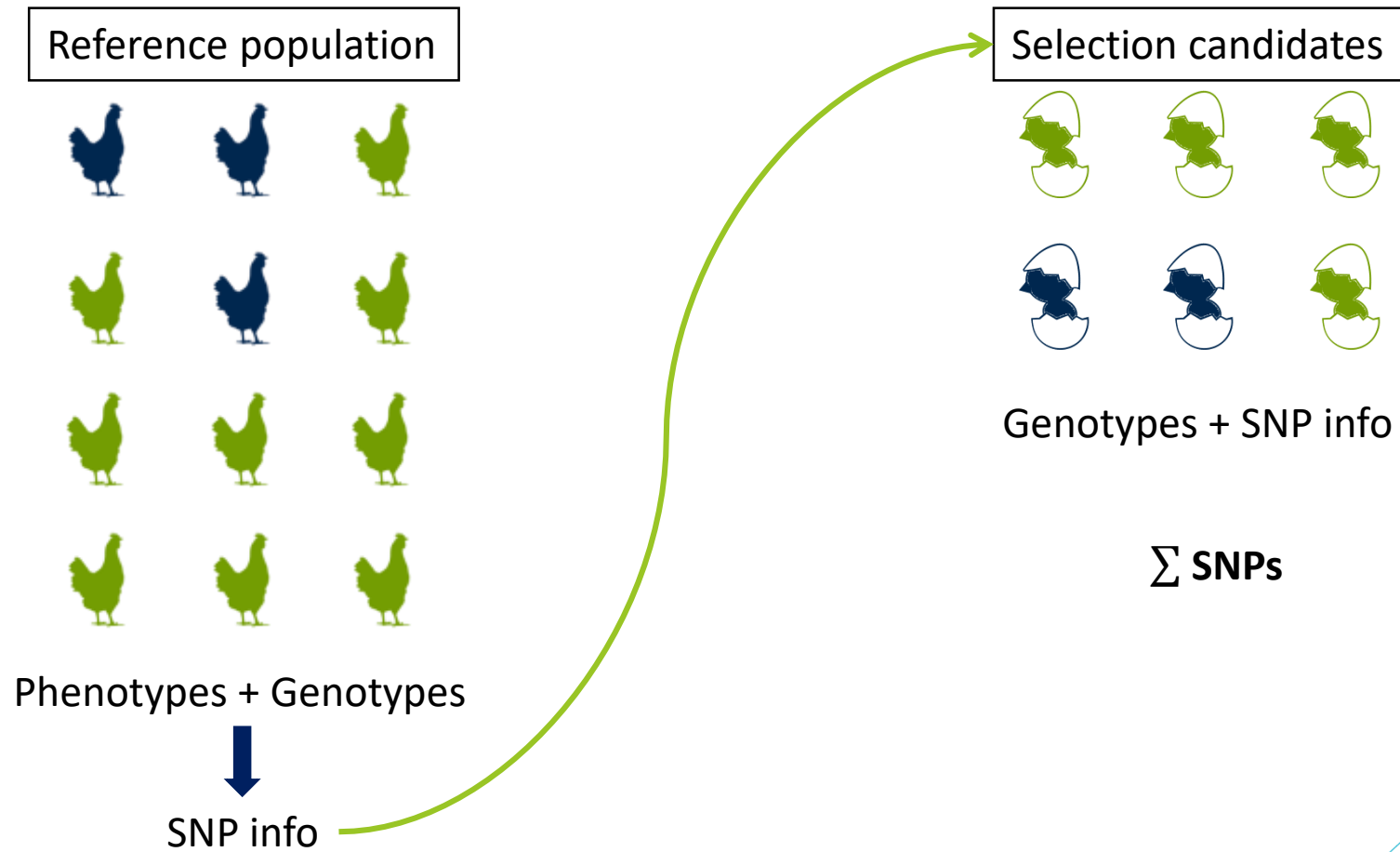


Genomics

Evolution of genetic improvement by selection



Genomic selection



Genomic selection



G-BLUP



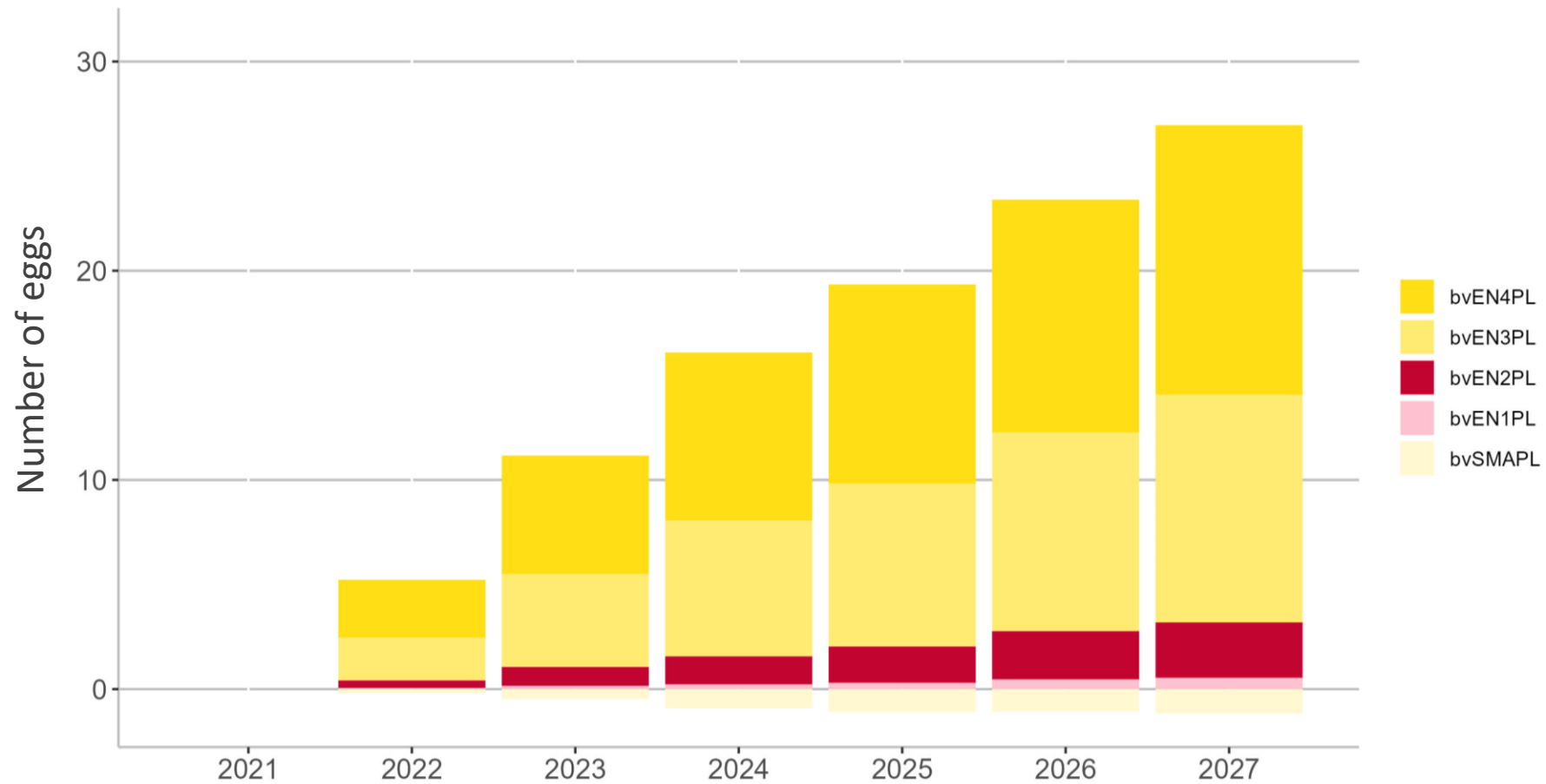
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Genetic Trends

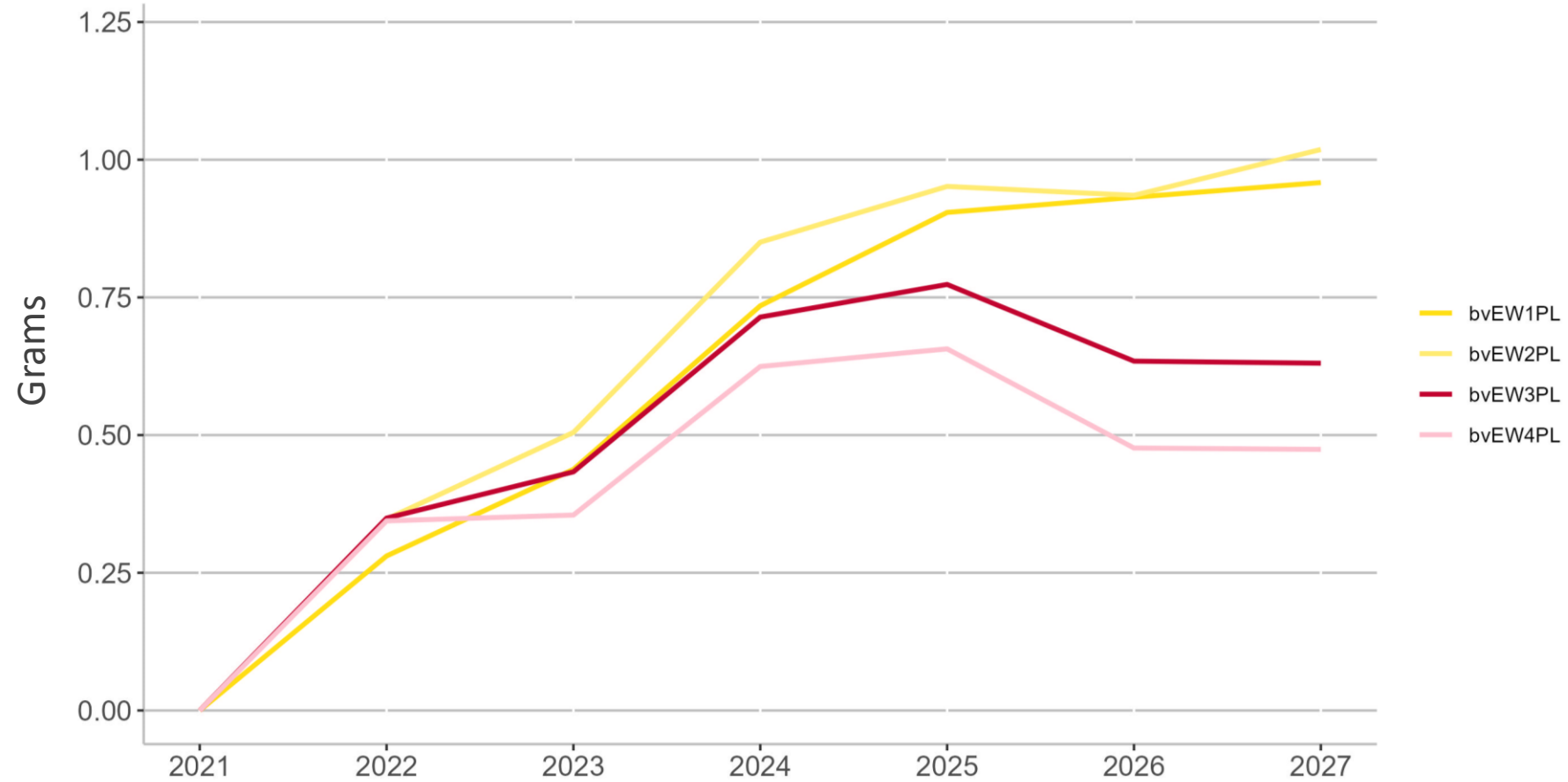
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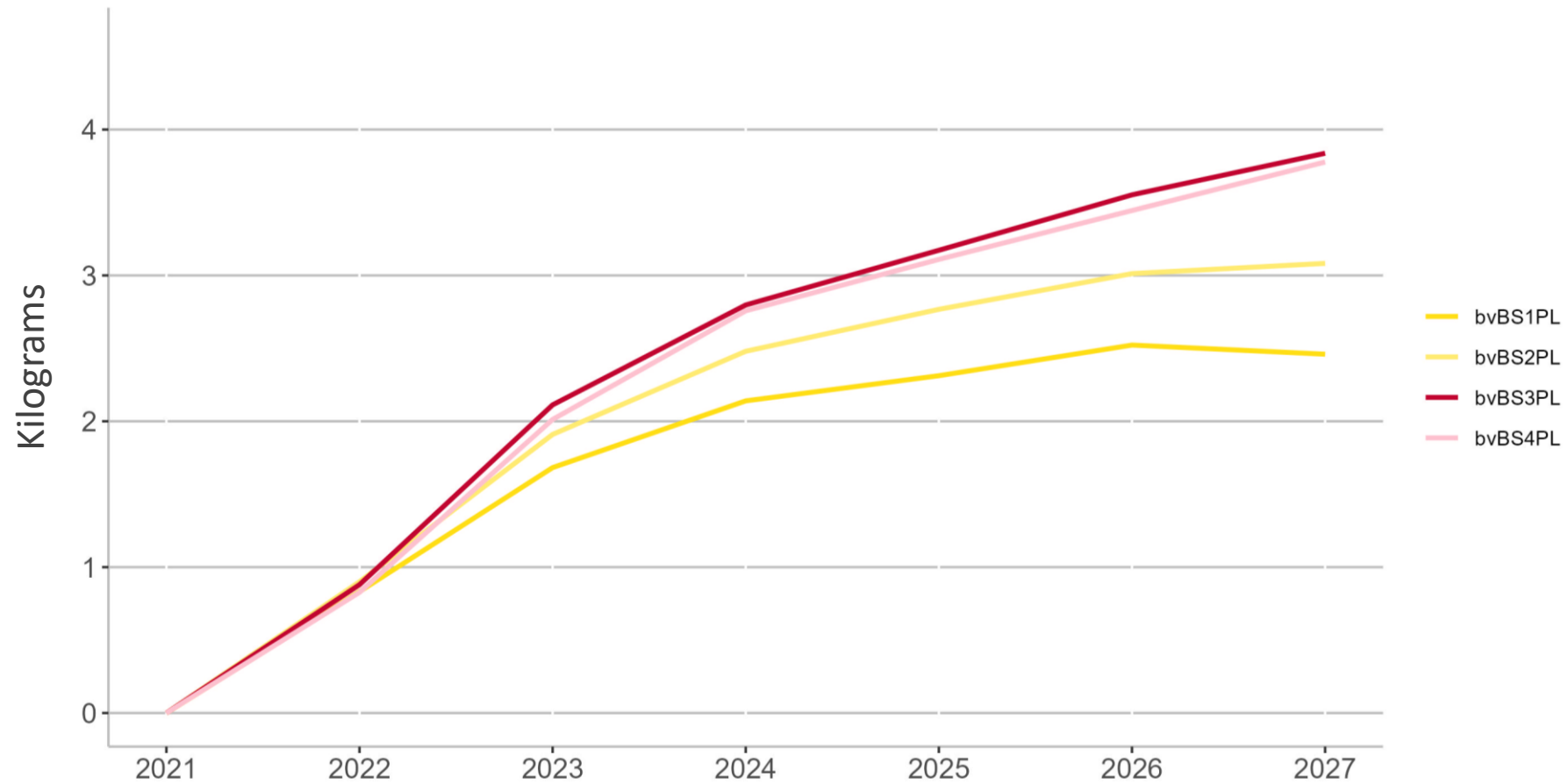
Egg Production



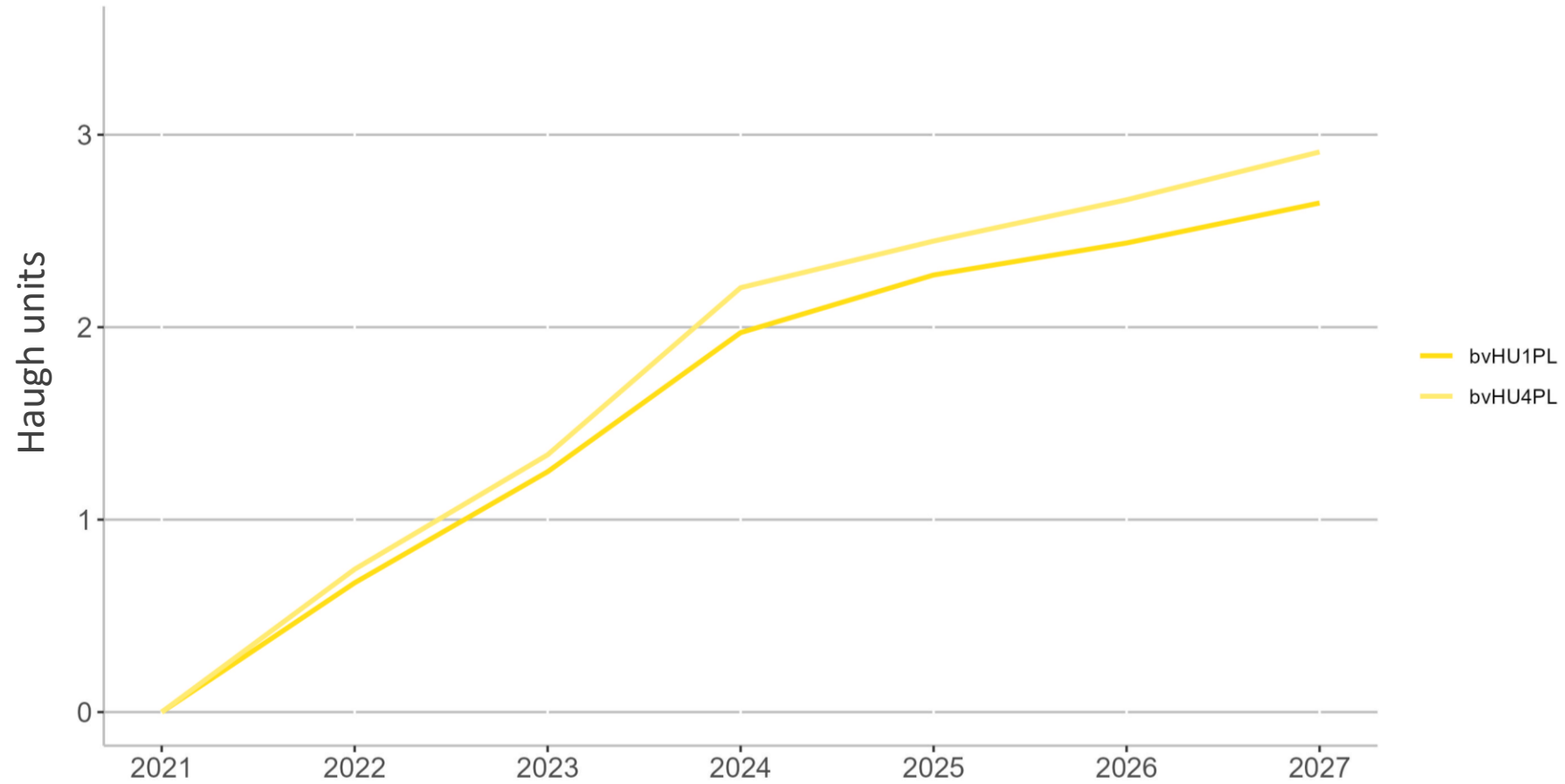
Egg Size



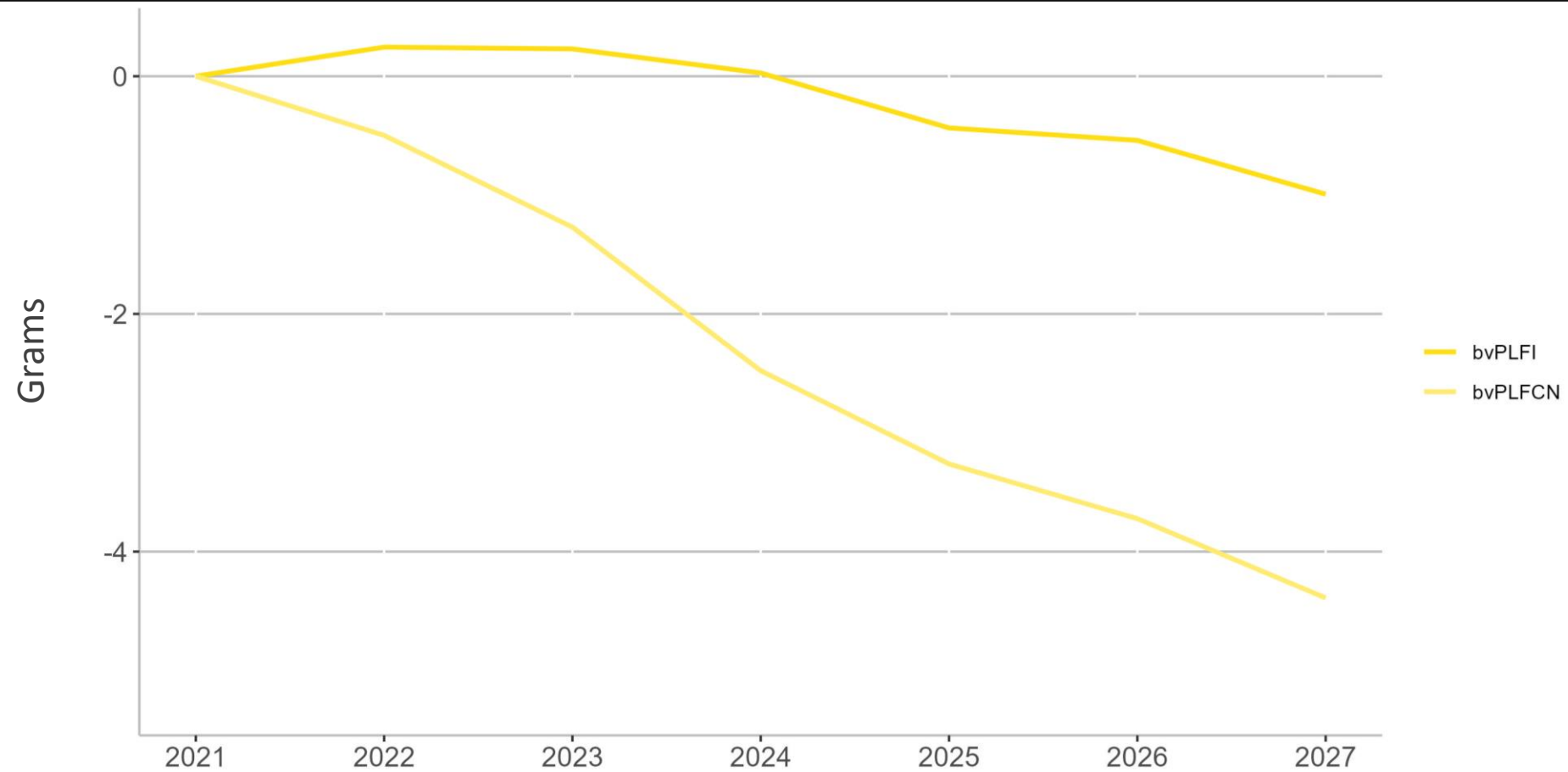
Egg Shell Strength



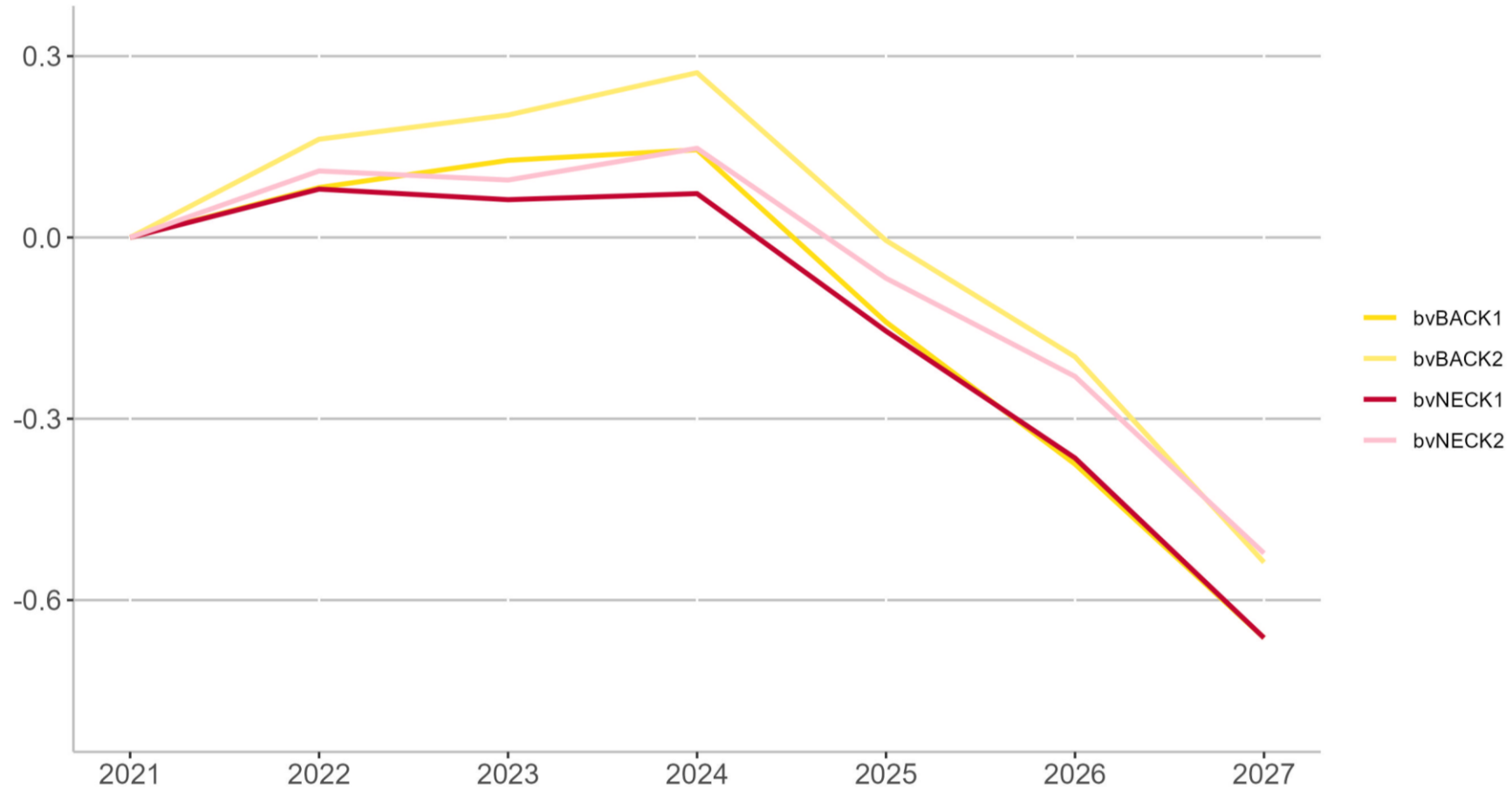
Haugh Units



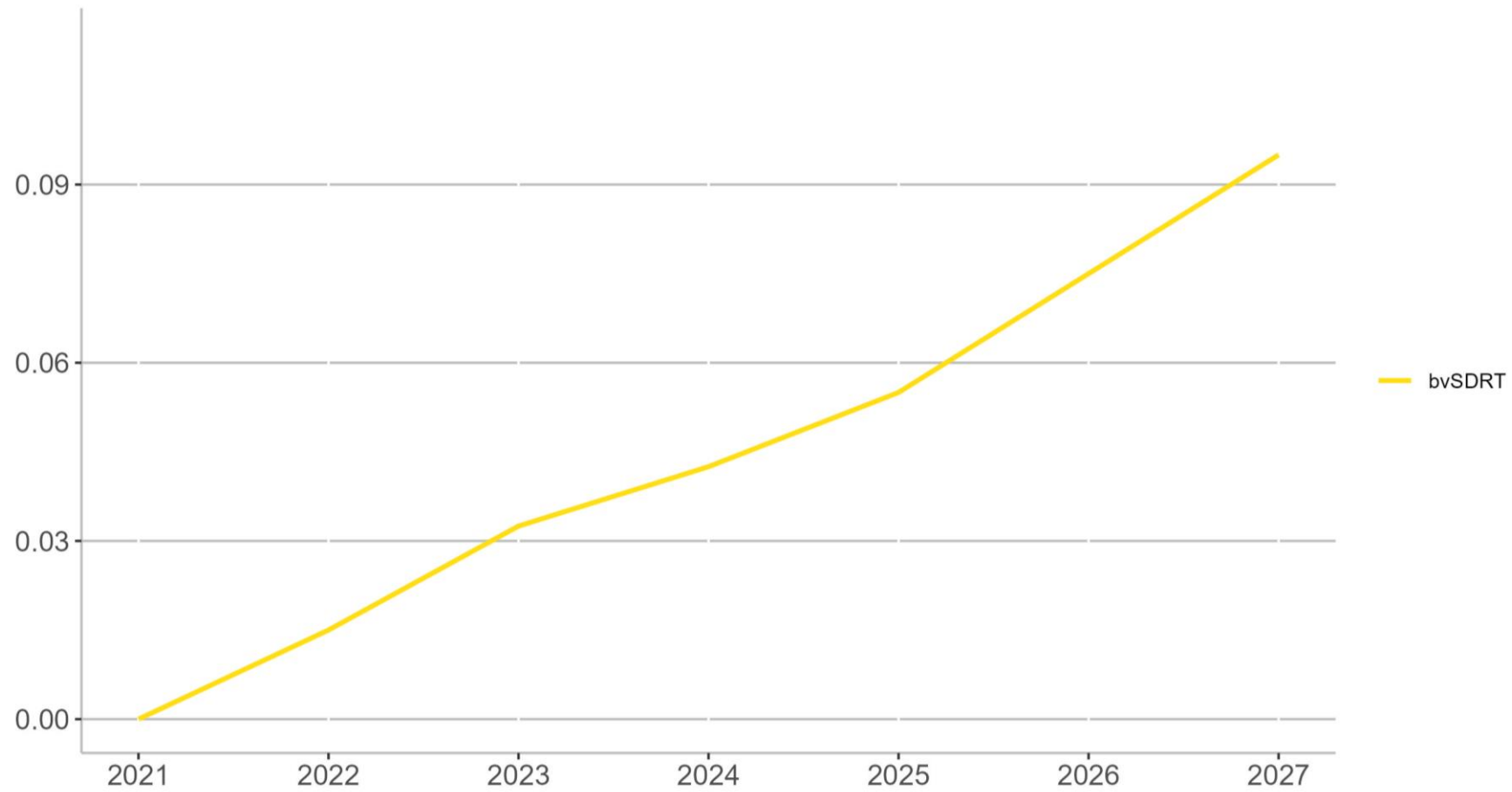
Feed Conversion



Feathering



Survival

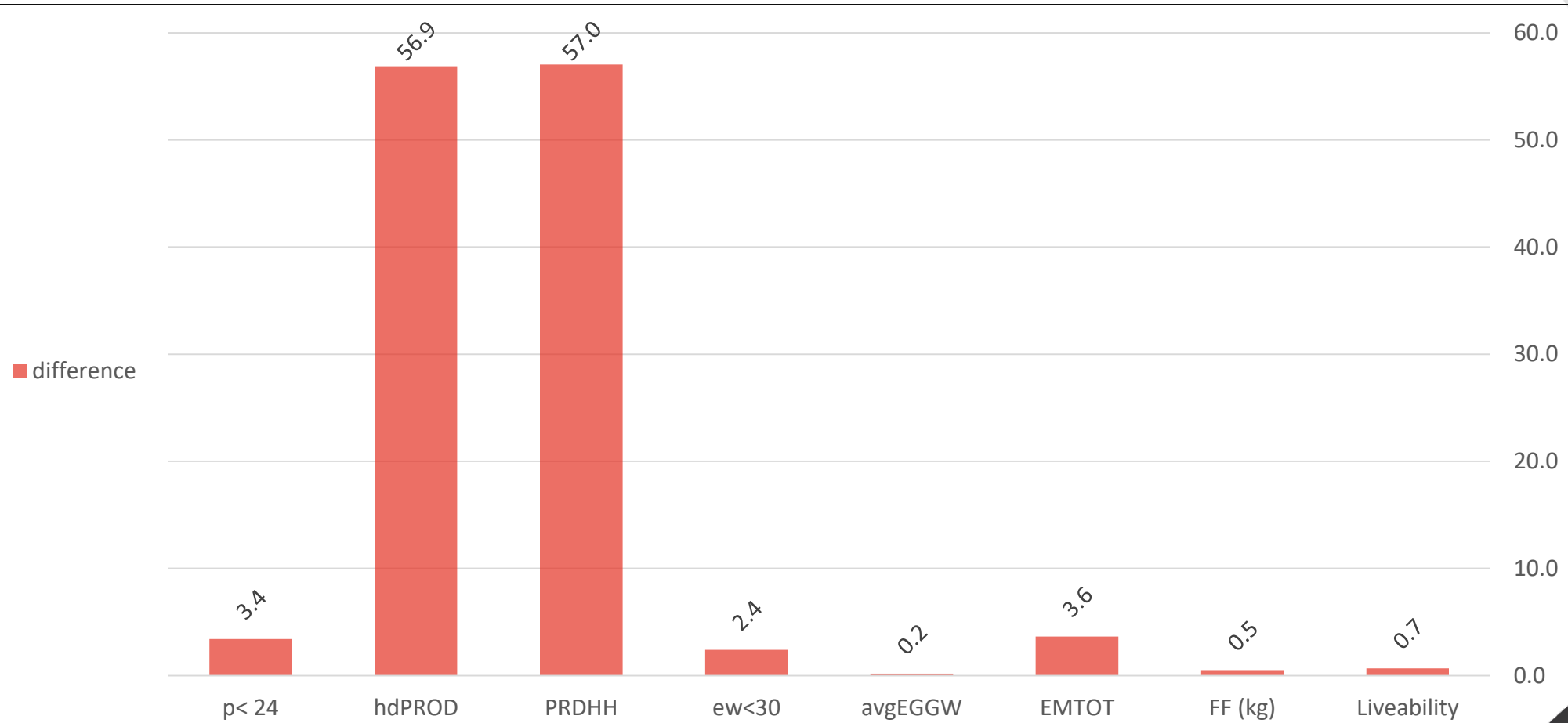




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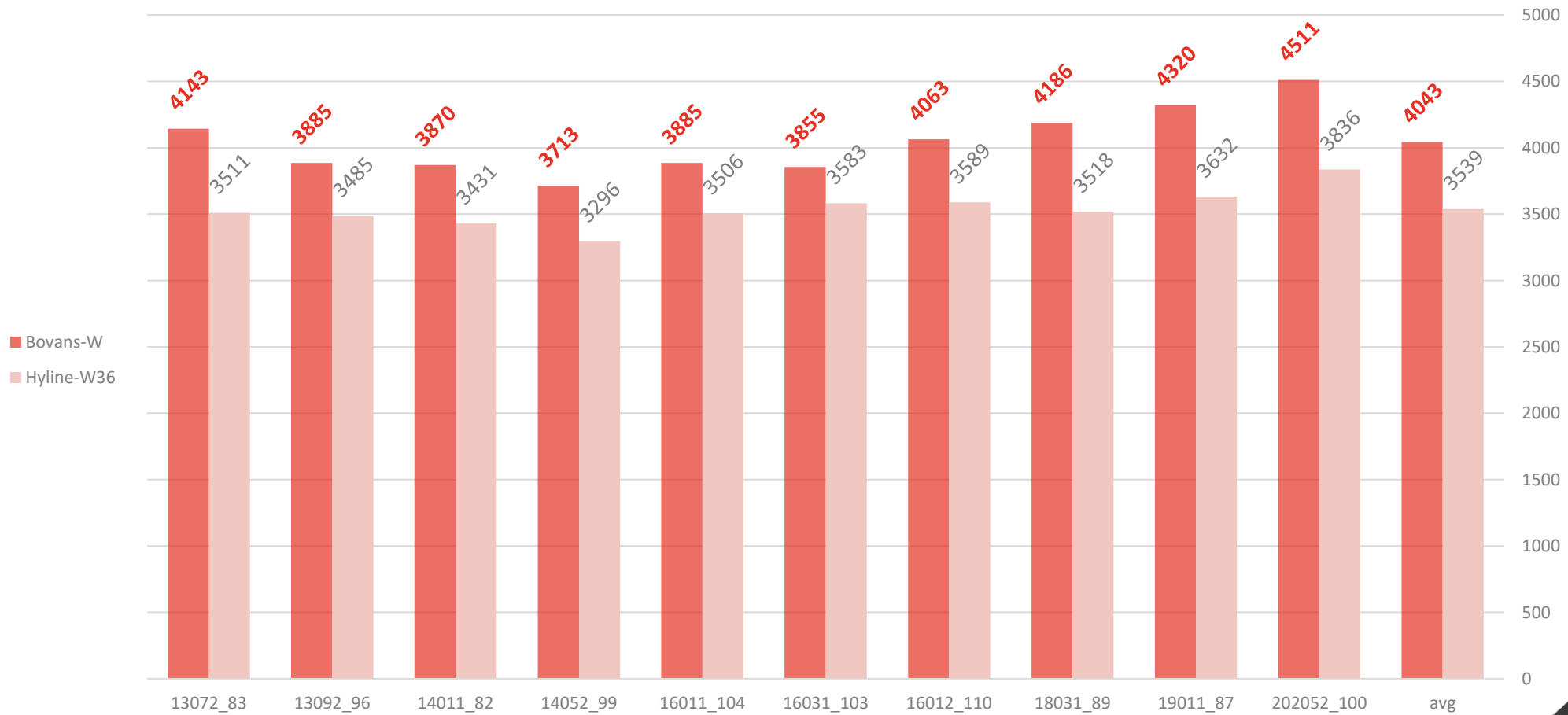
Recurrent Test Comparisons

Difference Bovans White vs. Hyline-W36

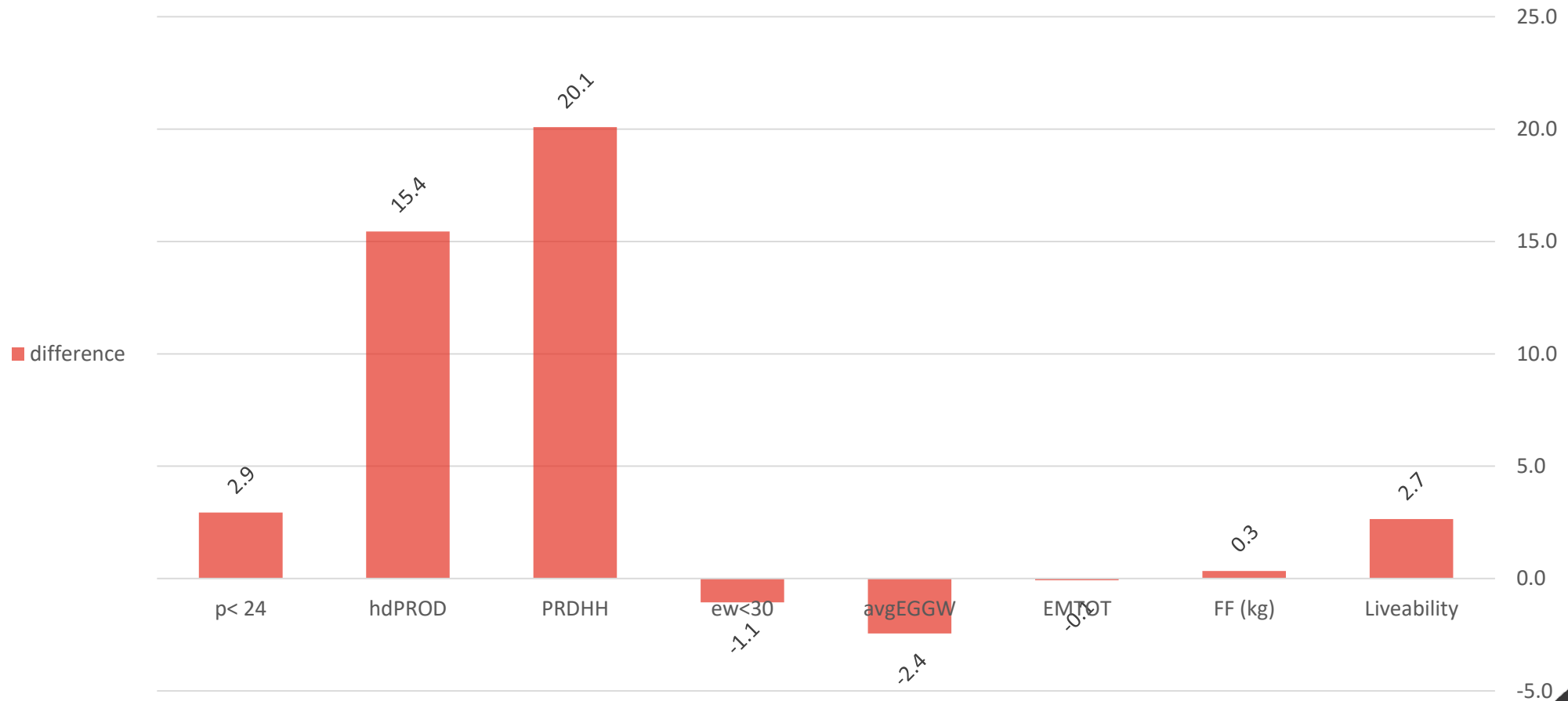


Breaking Strength

Bovans White vs. Hyline-W36

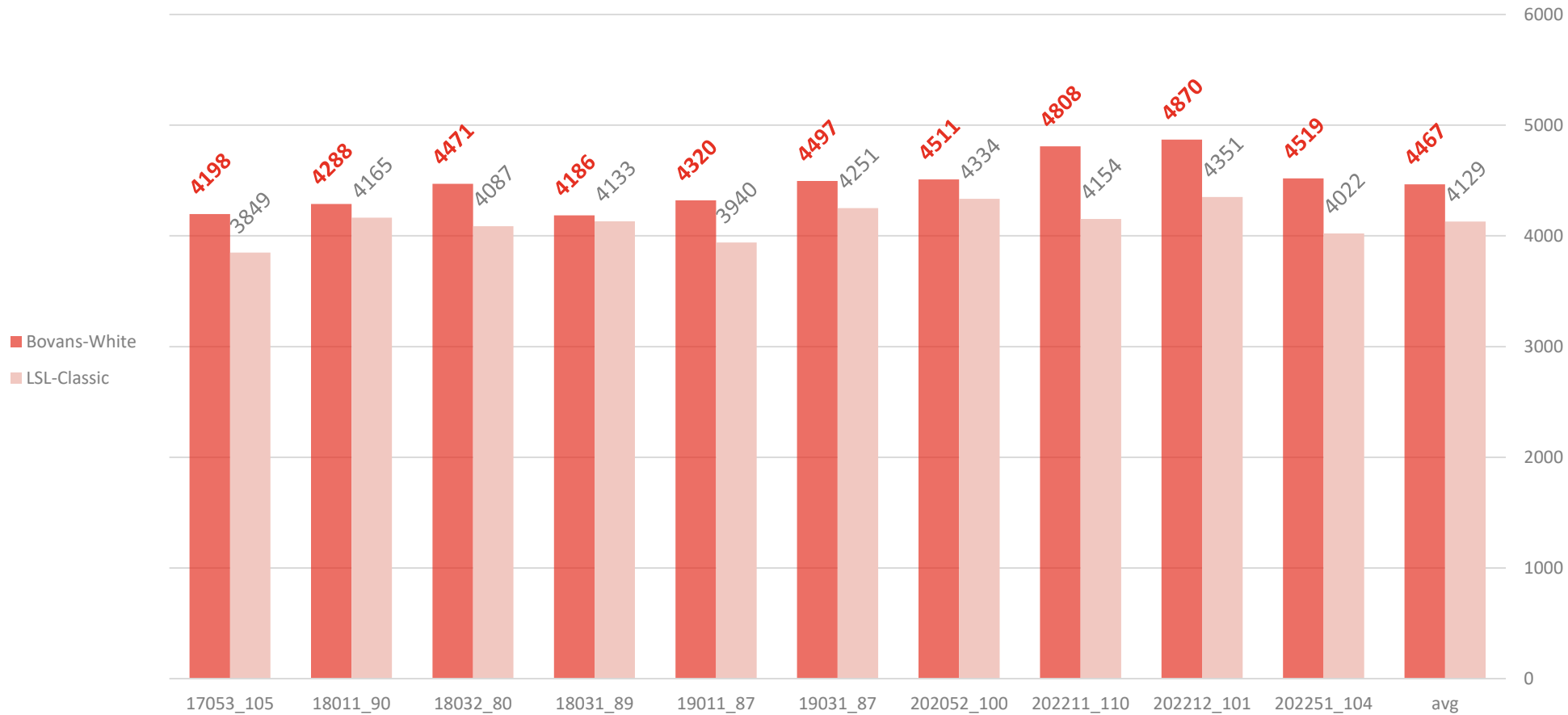


Difference Bovans White vs. LSL Classic



Shell Breaking Strength

Bovans White vs. LSL-Classic



Recent data of one company (7M CS)

3c. White Breeds 80W on Egg Quality

- Data 2021-2023

White breeds
80 Weeks

	DKW	H&N White	Lohm Lite	LSL Clsc	Novog C+L
Number Flocks	121	13	20	13	10
Av. Eggweight	59,9	59,9	60,2	60,4	61,5
Total Eggs HH	390,1	387,1	393,8	381,2	374,1
Breakingstrength	36,2	34,8	35,2	34,7	35,4
Seperate 2 ^e grade per Hen Housed	6,4	9,0	10,5	11,8	5,9
Sorted 2 ^e Grade MOBA500 HH	18,8	25,3	26,4	28,1	23,8
Leakers HH	0,6	0,7	0,7	0,9	0,8
Total 1 ^e Grade Eggs HenHoused	364,3	352,1	356,2	340,4	344,7

3d. White Breeds 90W on Egg Quality

- Data 2021-2023

White breeds
90 Weeks

	DKW	H&N White	Lohm Lite	LSL Clsc	Novog C+L
Number Flocks	102	6	12	10	7
Av. Eggweight	60,2	61,2	60,8	60,7	62,2
Total Eggs HH	442,7	438,5	438,9	427,0	427,2
Breakingstrength	34,6	32,5	32,4	33,9	33,3
Seperate 2 ^e grade per Hen Housed	7,5	12,1	9,7	17,9	5,3
Sorted 2 ^e Grade MOBA500 HH	23,2	30,9	34,7	34,6	31,6
Leakers HH	0,9	1,0	1,2	1,3	1,3
Total 1 ^e Grade Eggs HenHoused	410,9	394,6	393,3	373,2	389,1

3e. White Breeds 100W on Egg Quality

- Data 2021-2023

White breeds
100 Weeks

	DKW	H&N White	Lohm Lite	LSL Clsc	Novog C+L
Number Flocks	57	2	1	3	1
Av. Eggweight	60,5	61,4	60,7	60,6	62,2
Total Eggs HH	492,4	486,9	497,3	463,8	434,8
Breakingstrength	33,8	32,5	29,0	31,3	32,0
Seperate 2 ^e grade per Hen Housed	8,0	7,7	7,0	19,9	10,6
Sorted 2 ^e Grade MOBA500 HH	28,4	32,7	58,1	66,3	46,1
Leakers HH	1,3	1,3	3,3	3,3	2,6
Total 1 ^e Grade Eggs HenHoused	454,6	445,1	428,9	374,4	376,7

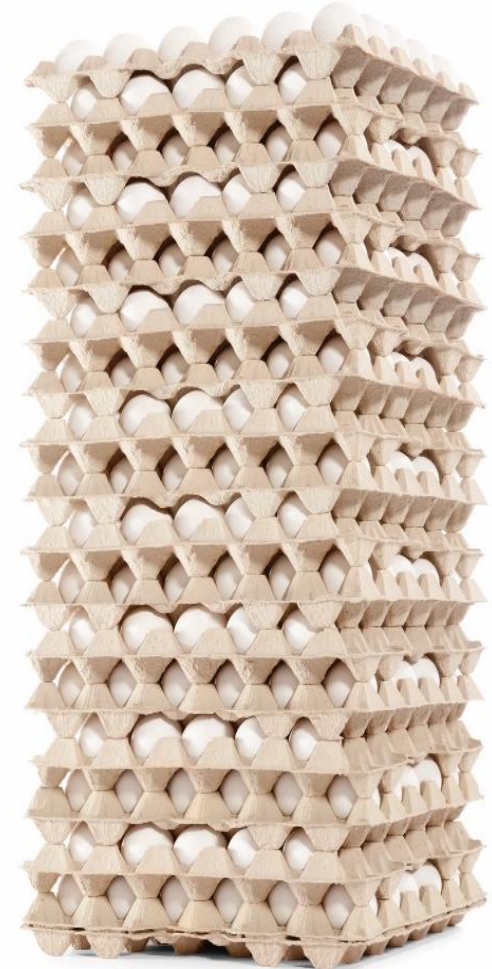
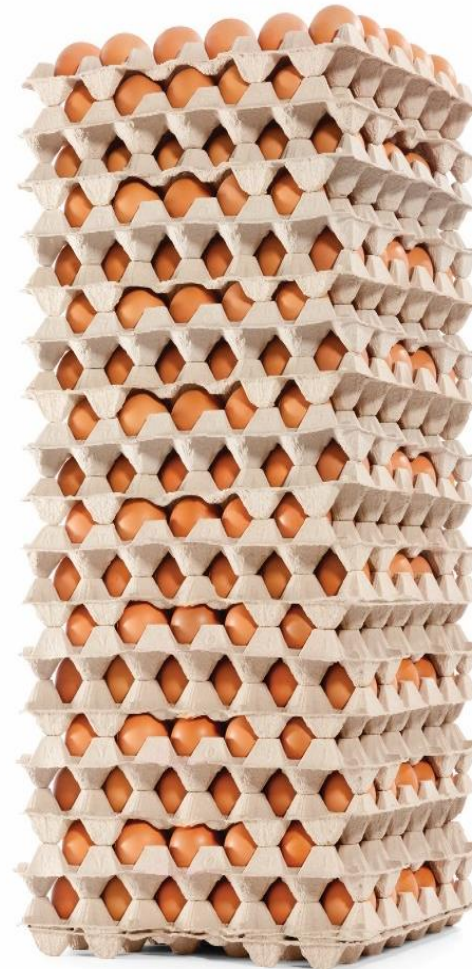
3b. Brown breeds on Egg Quality (80W)

• Data 2021-2023

Brown 80 weeks

	Bovan Brwn	H&N Brwn	Loh.B Clsc	Loh.B Lite	Nov.B Clsc	Nov.B Lite	Brwn 90 W
Number Flocks	1	1	7	4	1	8	5
Av. Eggweight	61,3	60,4	60,6	60,1	59,6	61,0	61,1
Total Eggs HH	390,0	360,3	359,5	372,3	385,8	366,6	411,1
Breakingstrength	36,0	36,0	36,3	36,0	34,1	35,3	34,0
Seperate 2 ^e grade per Hen Housed	3,4	3,0	8,5	7,2	22,4	5,7	8,9
Sorted 2 ^e Grade MOBA500 HH	13,3	21,9	26,6	20,2	33,3	23,9	27,1
Leakers HH	0,4	0,5	1,5	0,6	1,0	1,0	1,4
Total 1 ^e Grade Eggs HenHoused	371.9	334,1	322,9	344,3	329,0	336,1	373,6

Our focus: 500 1st Quality eggs per hen housed in 100 weeks...



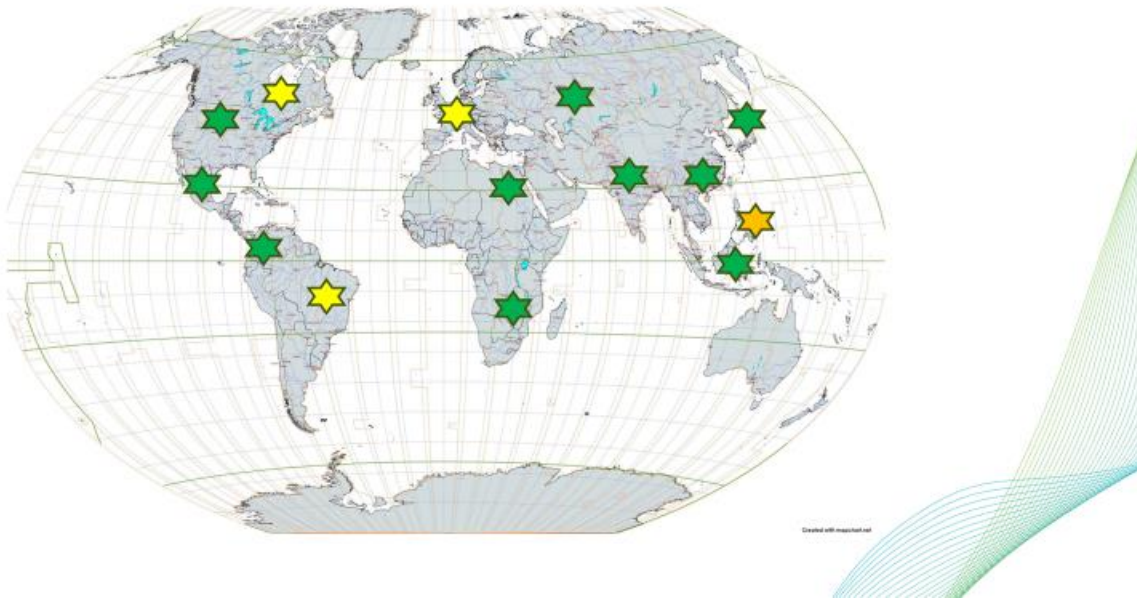
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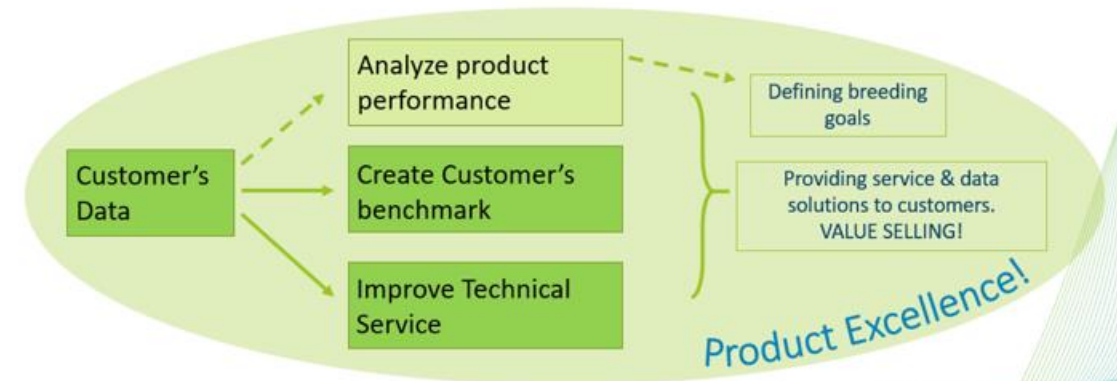
More focus on: “To realize the genetic potential at Customer level”

Regions with RT testing worldwide



Flock data

- Data support >> to realize the genetic potential at customer level
- Data services - next to genetic products - will become a component of genetic companies
 - Improved technical service WITH “real-time” flock data



Gracias por su atención!



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