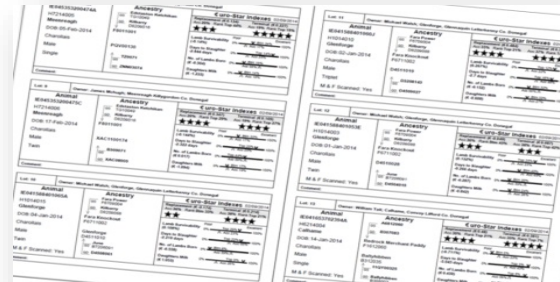


Bringing the sheep industry together



Kevin McDermott
Manager – Sheep Ireland

Our Why & How



We exist to benefit our farmers, our agri-food industry and our wider communities

We do this by

Developing and applying

science and technology



to ensure our farmers and our industry



make the most profitable and



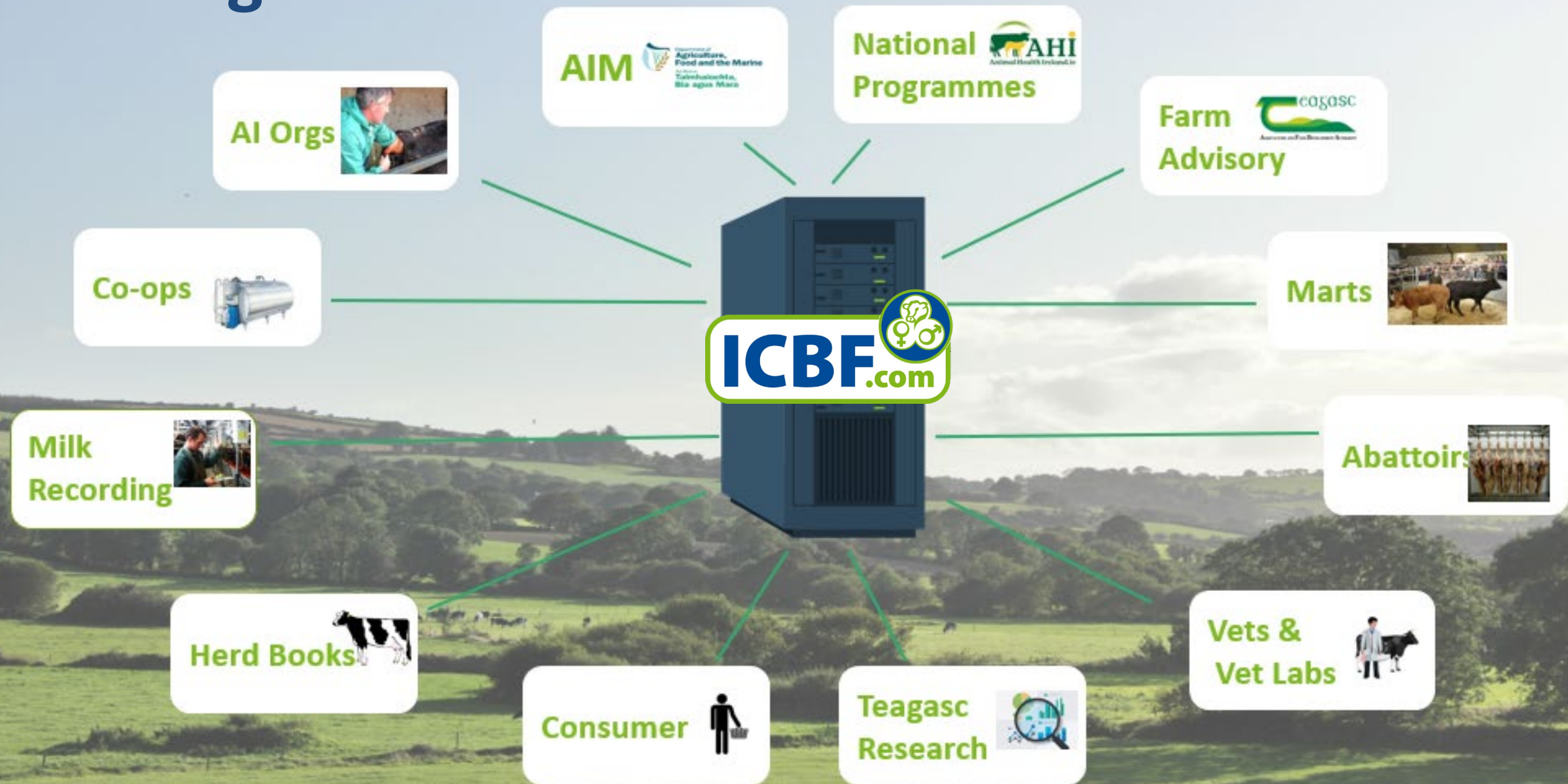
sustainable decisions



Sheep Industry buy in



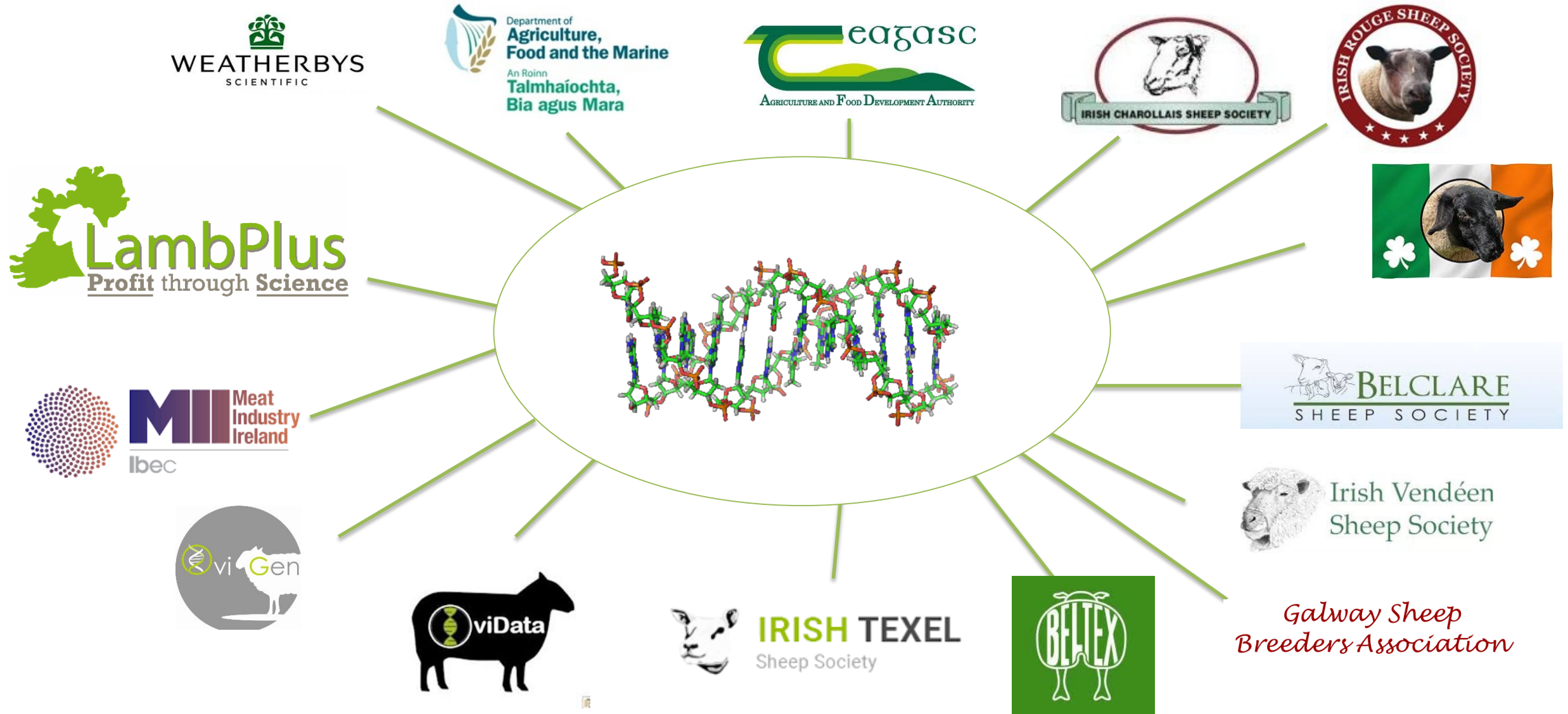
Learning from the best!!



Replicating a similar model

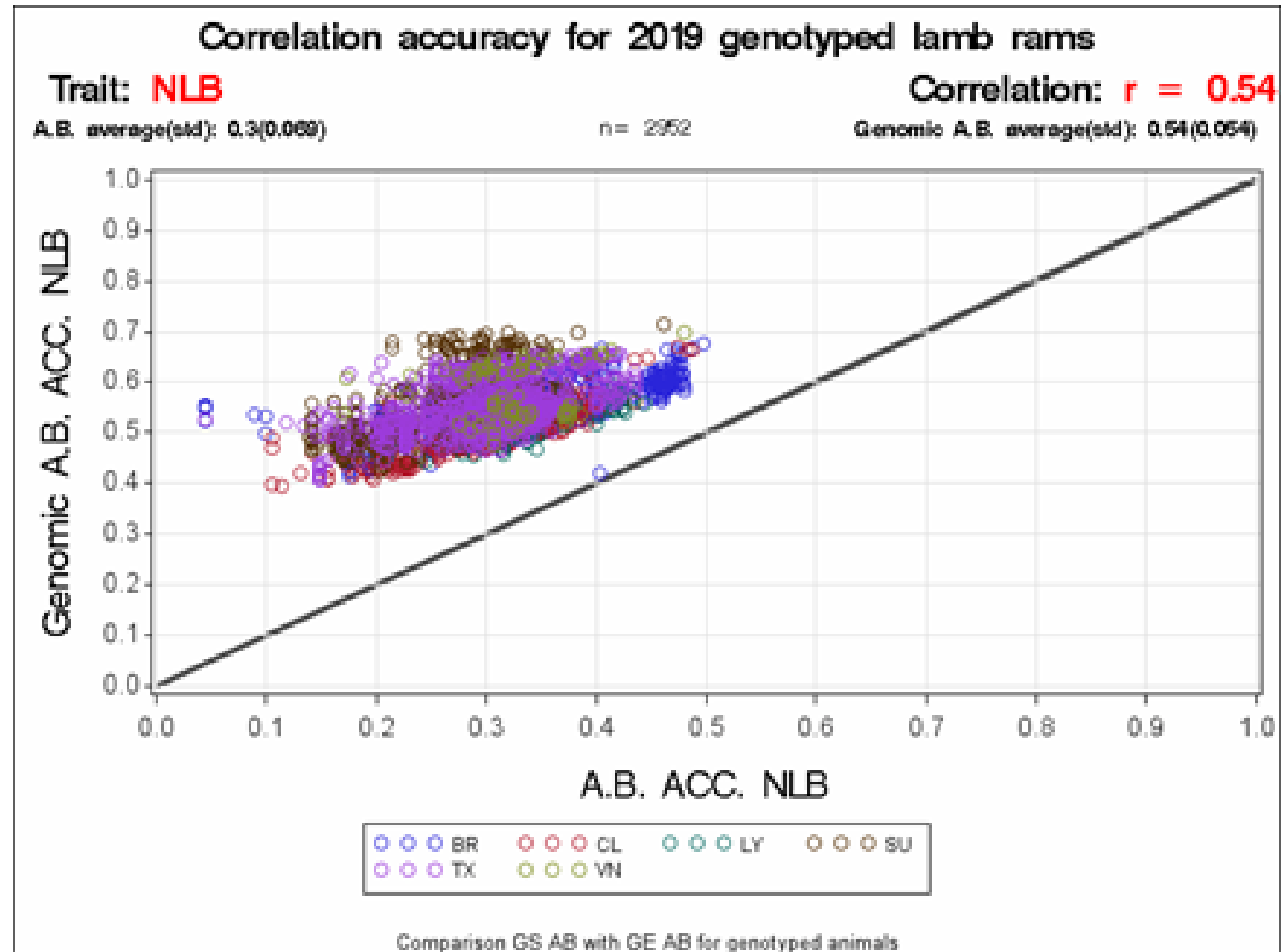


The database in Action – Introducing Genomics



The database in Action – Introducing Genomics

- Increase in Acc% of 24%
- More informed breeding decisions at an earlier age
- Giving commercial farmers more confidence



The database in Action – For the industry

Owner: John, Colm And Michael Mchugh (DQI: 96%); Cnoc Glas, Lisnashannagh, Carrickmacro
 Breeder: John, Colm And Michael Mchugh; Cnoc Glas, Lisnashannagh, Carrickmacross, Co. M

Animal

IE043743106703H
 HUI1906703
Greenhill Chieftain

DOB: 02-Mar-2019
 Texel
 Male
 Twin
 Parentage DNA Verified

M & F Scanned: Yes

Ancestry

GS Knap You'Re The Man
 CKP1600794
 GD Thornville
 UVI13044

↓

Thornville Alberto
 UVI1701330

Greenhill
 HUI1705698

GS Hillcrest Wagner
 YZI15003
 GD Greenhill
 HUI15032

EuroStars

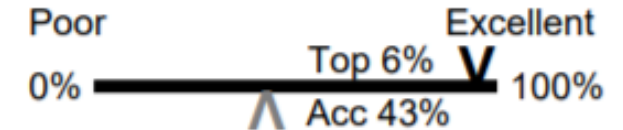
13/11/2019

Replacement (€1.57) Terminal (€1.76)
 Acc 43% Rank Top 4% Acc 47% Rank Top 4%



Lamb Survivability

(0.97%)



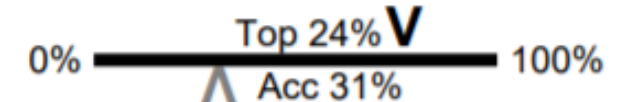
Days to Slaughter

-12.38 days



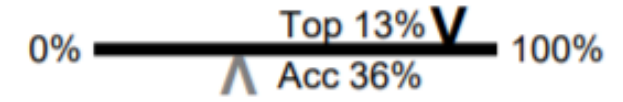
No. of Lambs Born

(€-1.01)



Daughters Milk

(€1.39)



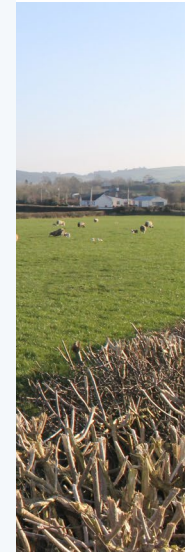
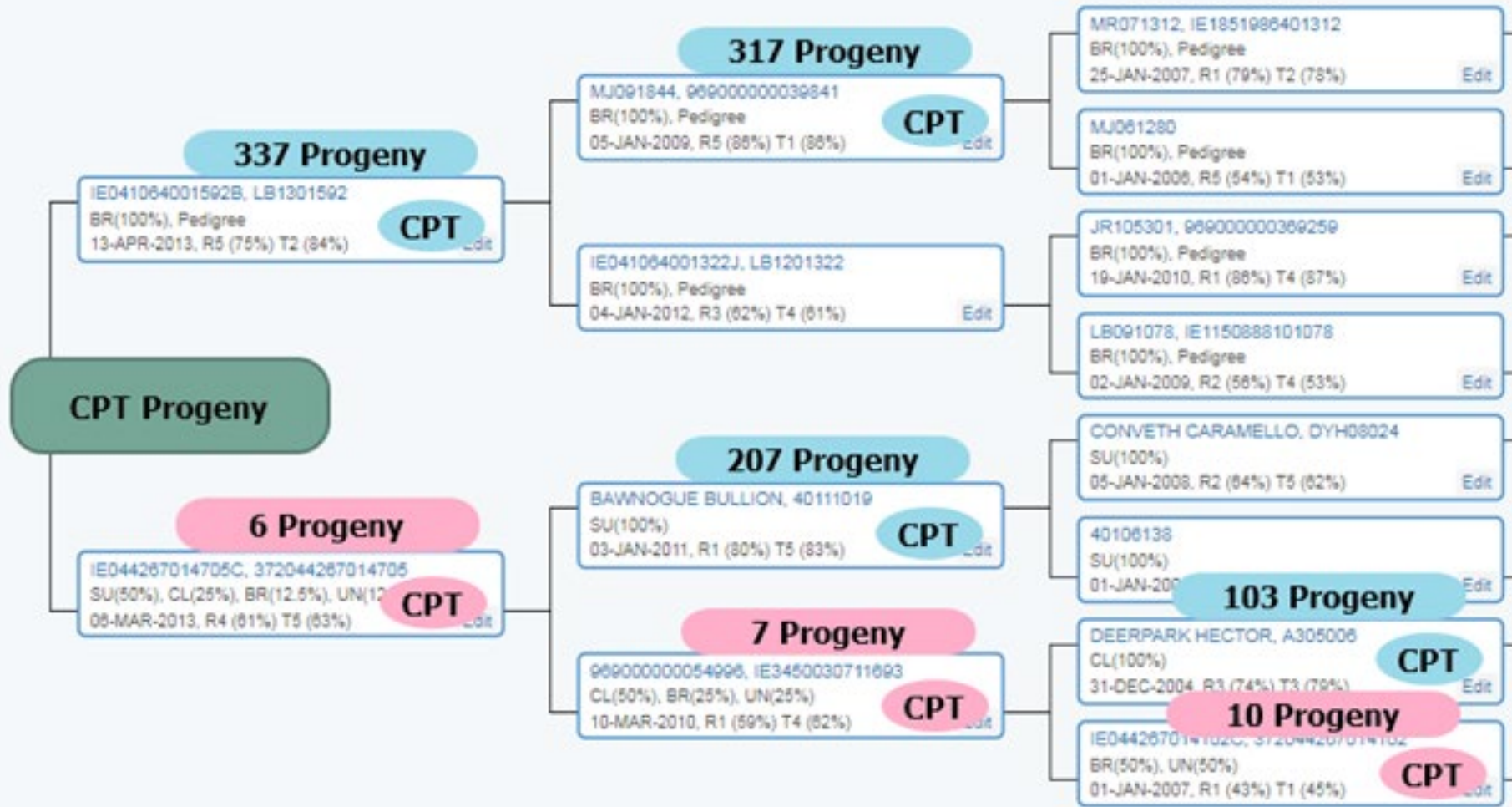
Comment:

Central Progeny Test

IE044267020411F, 372044267018647, IE044267018647D

Belclare (56.25%), Suffolk (25%), Charollais (12.5%), Unknown (6.25%), 08-MAR-2016, R5 (51%) T5 (56%), Female, Twin

Show link to this Tab



Show link to this Tab

12 3% Edit

3% Edit

59 7% Edit

78 3% Edit

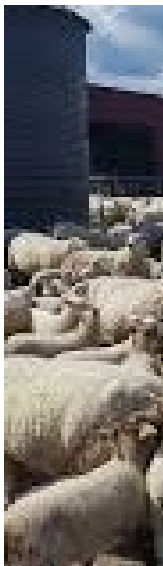
YH06024 2% Edit

rogeny Edit

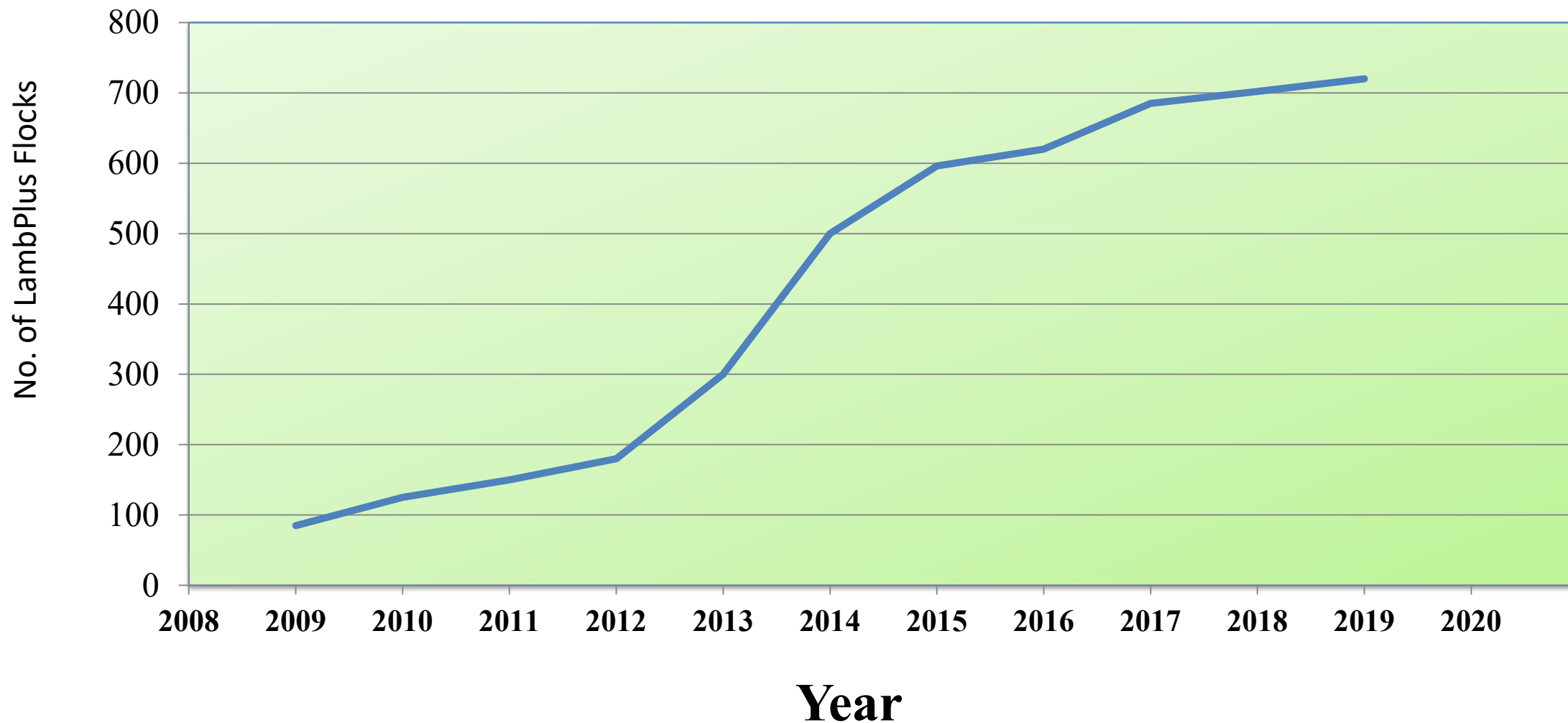
5006 CPT Edit

rogeny Edit

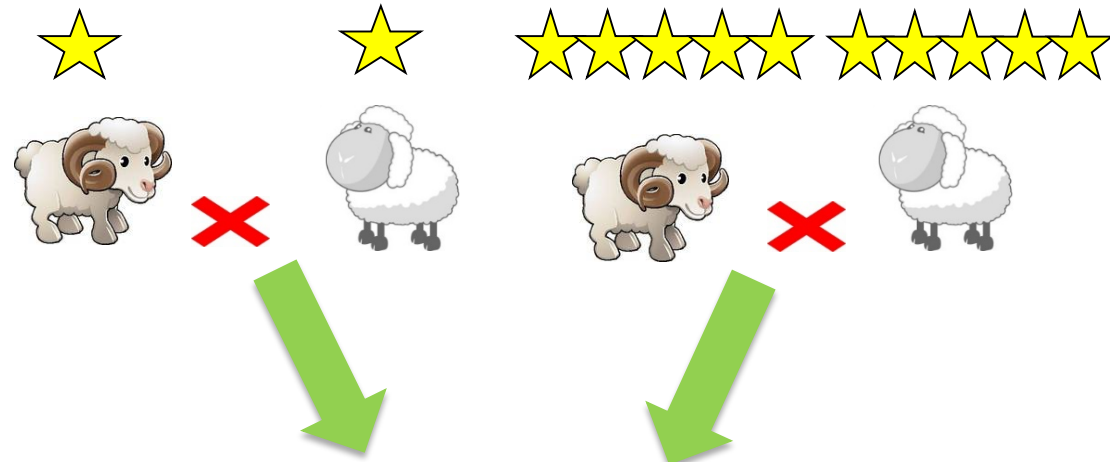
5% CPT Edit



No. of LambPlus flocks by year

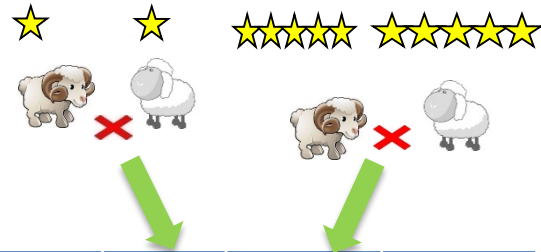


Validation in performance



Index	Trait	★	★★★★★	Difference
Replacement	Lamb Mortality (%)	10.65%	9.45%	-1.20%
	Number of lambs born	1.92	1.97	0.05
	Ewe mature weight (kg)	78.7	76.8	-1.9
Terminal	Lambing Difficulty (%)	23.06%	18.17%	-4.89%
	40 Day weight (kg)	18.1	20.2	2.10
	Weaning weight (kg)	31.9	34.5	2.60

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Extreme Scenario

- Fully recorded flock
- 1 Star X 1 Star
- 5 Star X 5 Star

Difference in Profit of **€20/ewe**

Normal Commercial Flock

- Non-recorded ewes and lambs
- Using 5 Star rams VS 3 Star

Difference in Profit of **€5/ewe**

Why now is the time to back breeding

- EBV's have never been more accurate in Ireland

“Errors using inadequate data are much less than those using no data at all.”

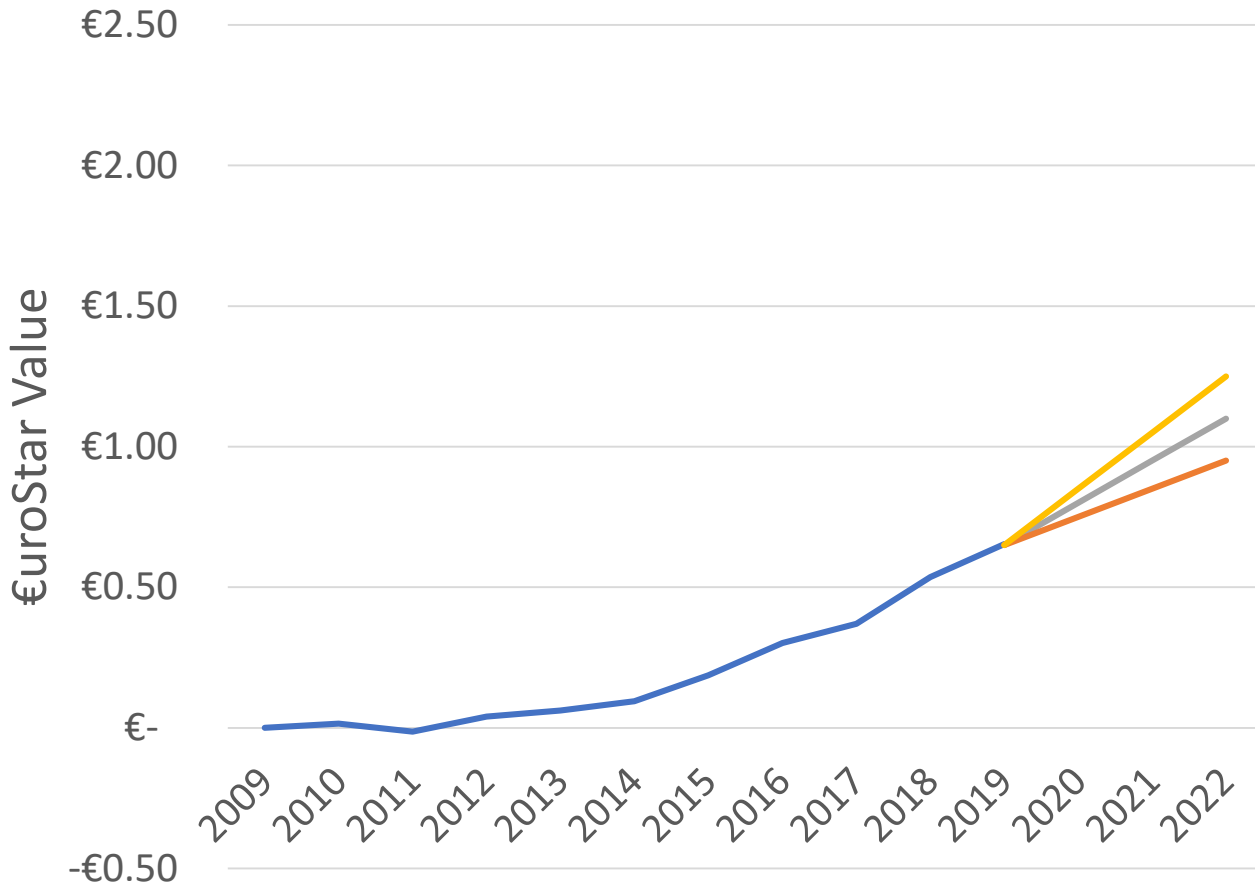
– Charles Babbage

- Increase pressure to reduce Emissions
 - Ewe mature size and litter size driving factors in reducing GHG emissions /kg of lamb
- Increasing number of part-time farmers
 - Need more robust and healthier ewes

Genetic Gain in Ireland since 2009

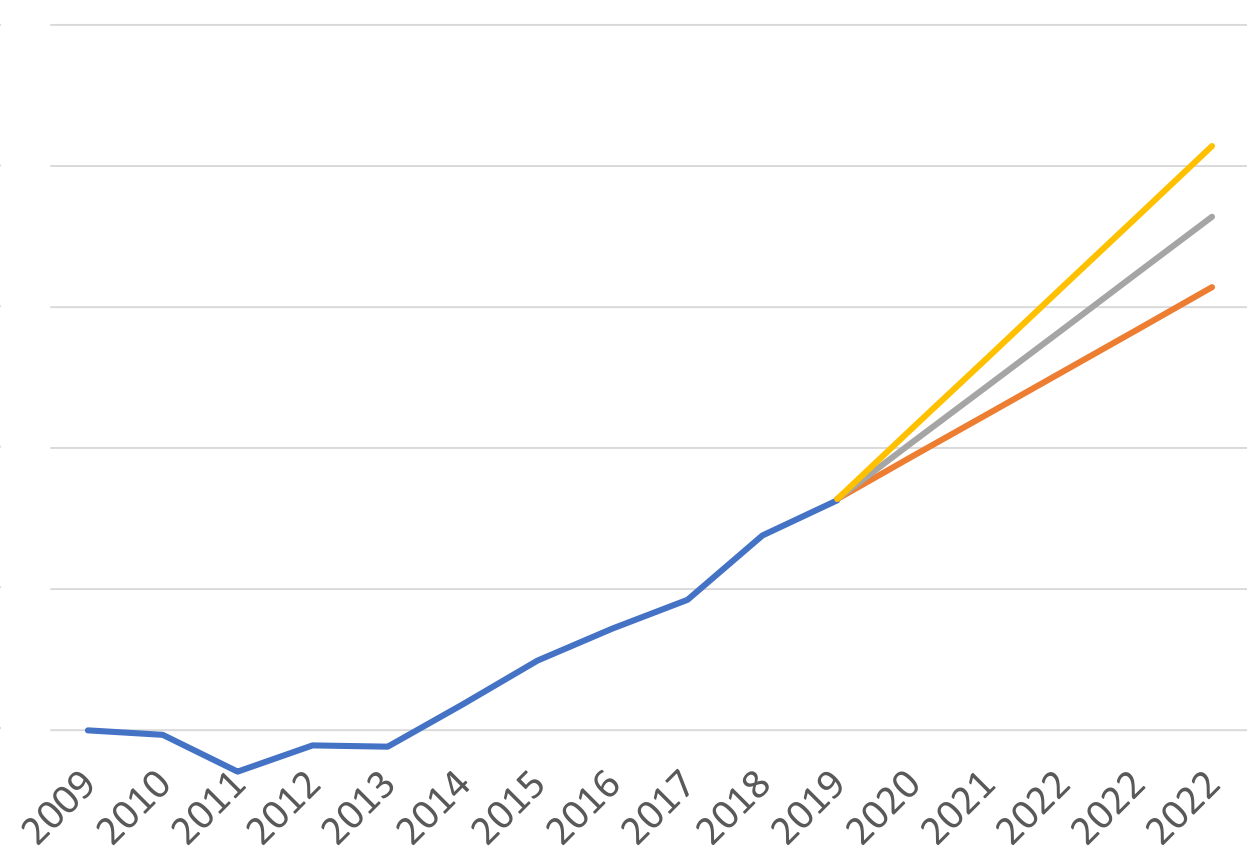
Terminal Index Genetic Gain

— Current Genetic Gain — Potential (+.15c)
— Potential (+.10c) — Potential (+.20c)



Replacement Index genetic gain

— Current Genetic Gain — Potential (+.15c)
— Potential (+.20c) — Potential (+.25c)



What do the next 10 years hold?

- An even greater integration of the database into the industry to maximise the value of each piece of data
- International Genomic Evaluations
- Routine genotyping of all pedigree registered animals
 - Matching rams to flocks based on pooled flock genotype result!!
 - Allowing commercial farmers to monitor gain without recording
- More Commercial farmers EID recording and demanding EuroStar rated recorded rams



Thank You!!

