



# Setting the Sheep Sector up for the future

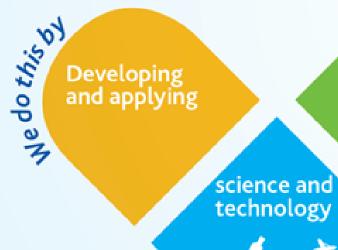
What has been done to date and a look towards the future

Kevin McDermott - Sheep Ireland Manager

#ISGC20



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



to ensure our farmers and our industry





make the most profitable and







## 

















## 2020













Galway Sheep



























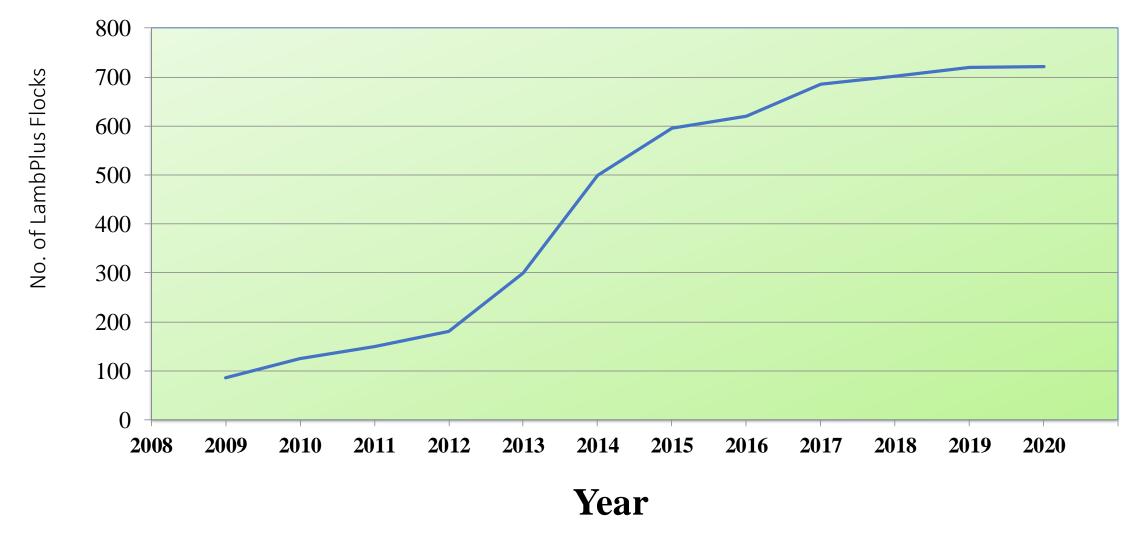
## The database in Action – For the industry





## No. of LambPlus flocks by year









## Proportion of Rams used Annually







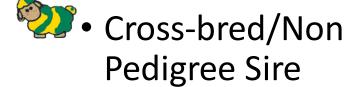




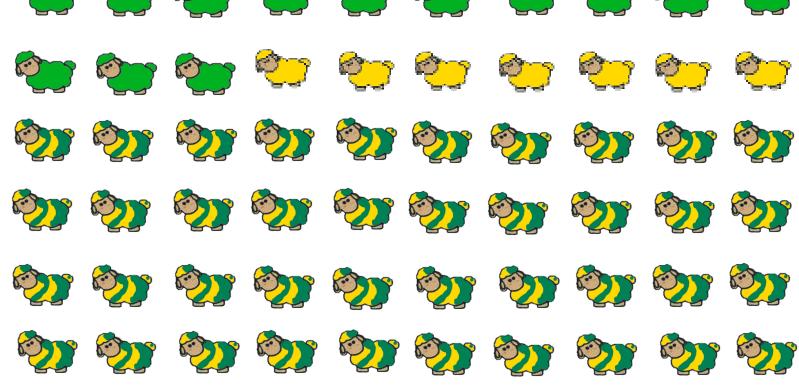








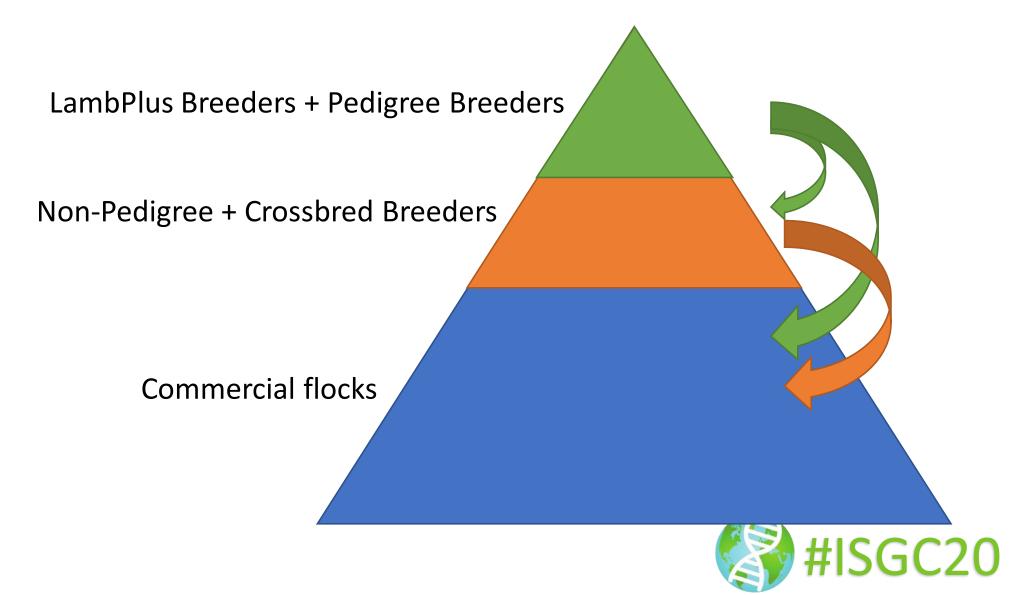








## The Trickle down effect!!



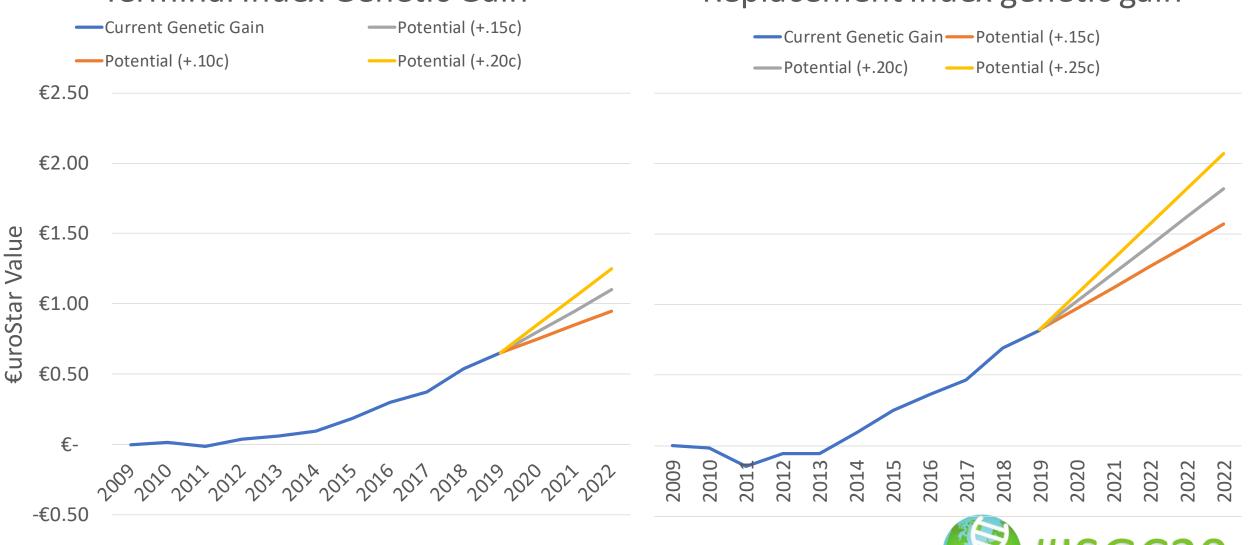


## Genetic Gain in Ireland since 2009



#### Terminal Index Genetic Gain

Replacement Index genetic gain

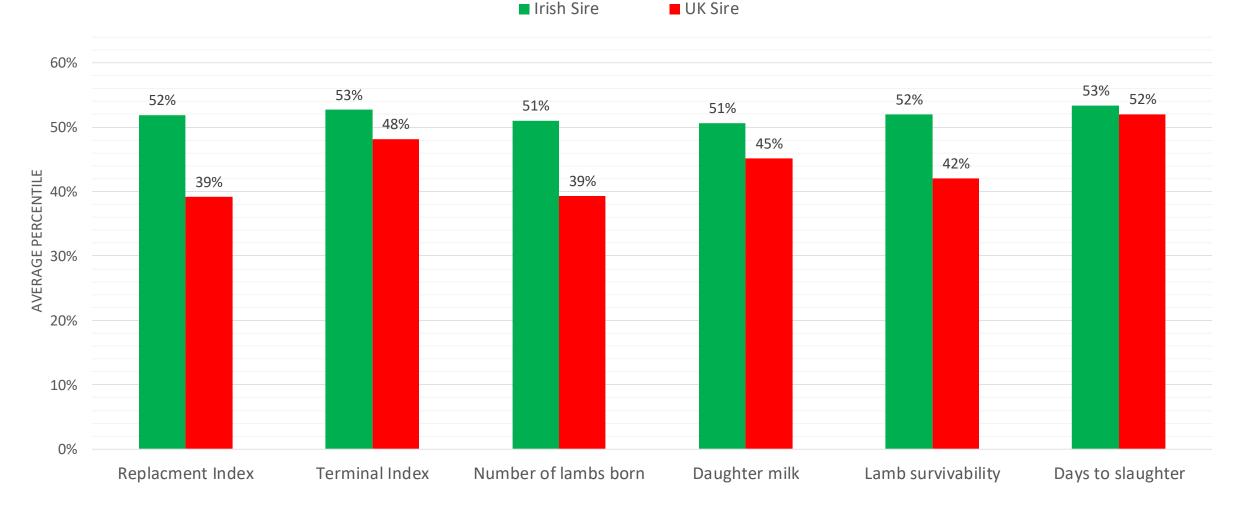






## Irish v UK Texel sires





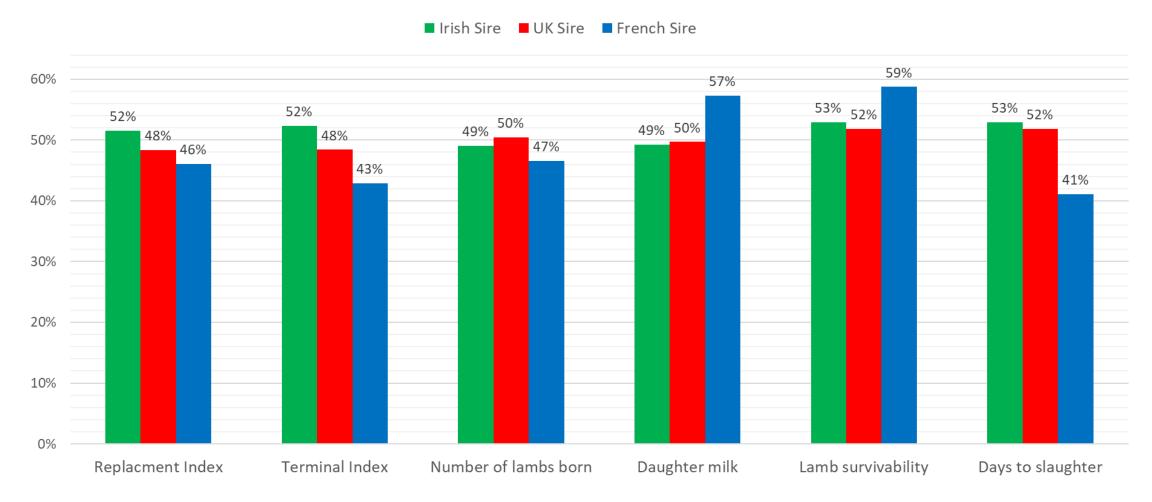
Graph based on five years of Texel lamb data (2015 – 2019)





## Sire Origin Effect - Charollais





Graph based on five years of Charollais lamb data (2015 – 2019, Based on 29,198 records)

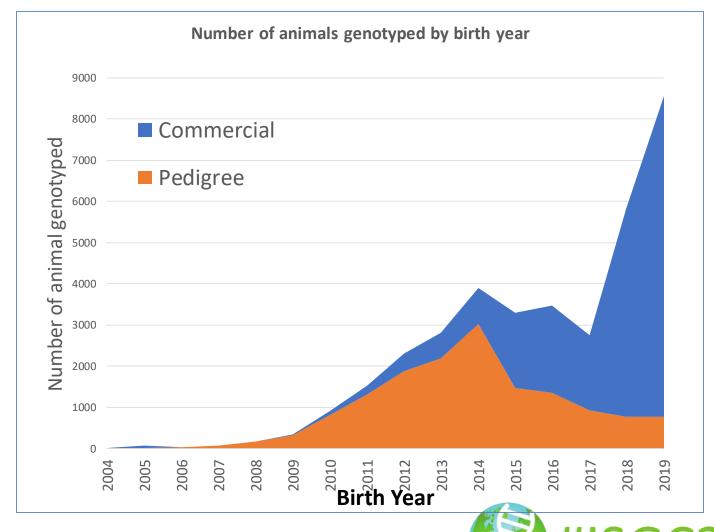






- We have positioned ourselves in a great place
- Central database is the key to harness the full benefits of genomics
- Ownness on
  - Sheep Ireland
  - Breed Societies
  - Breeders

## Genotyping







## Scrapie: Validation and Results





	Type 1	Type 2	Type 3	Type 4	Type 5
Belclare	70%	25%	4%	1%	0%
Charollais	81%	18%	1%	1%	0%
Suffolk	86%	14%	0%	0%	0%
Texel	45%	43%	11%	1%	0%
Vendeen	80%	19%	1%	0%	0%
Crossbred	63%	31%	4%	2%	0%
Average	71%	25%	4%	1%	0%

 Scrapie Type has no impact on an animals growth performance:

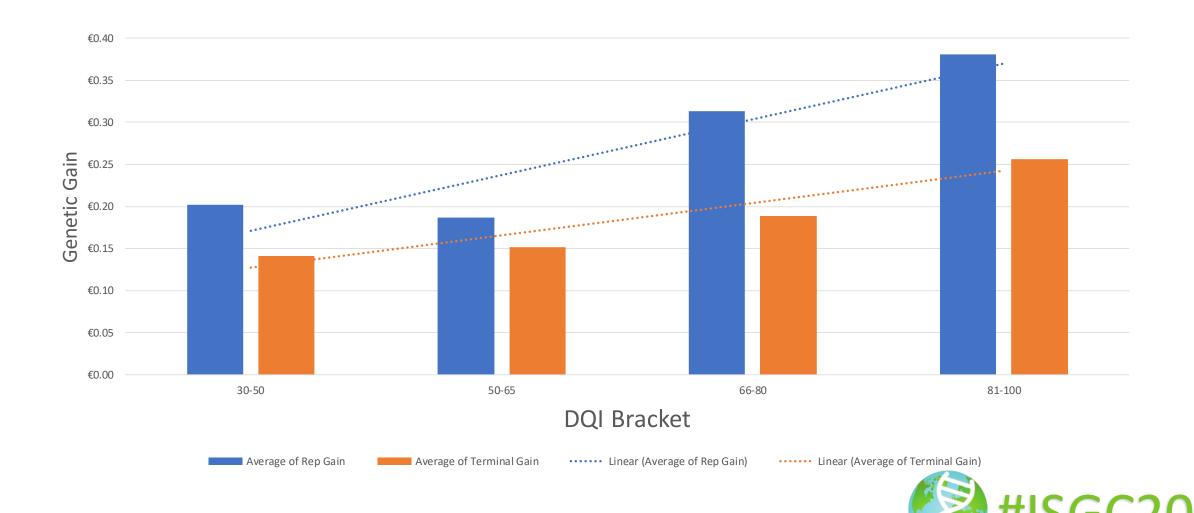
#### Scan Weight

- Type 1  $\rightarrow$  45.03kg (0.99)
- Type 5  $\rightarrow$  45.90kg (2.47)
- No significance





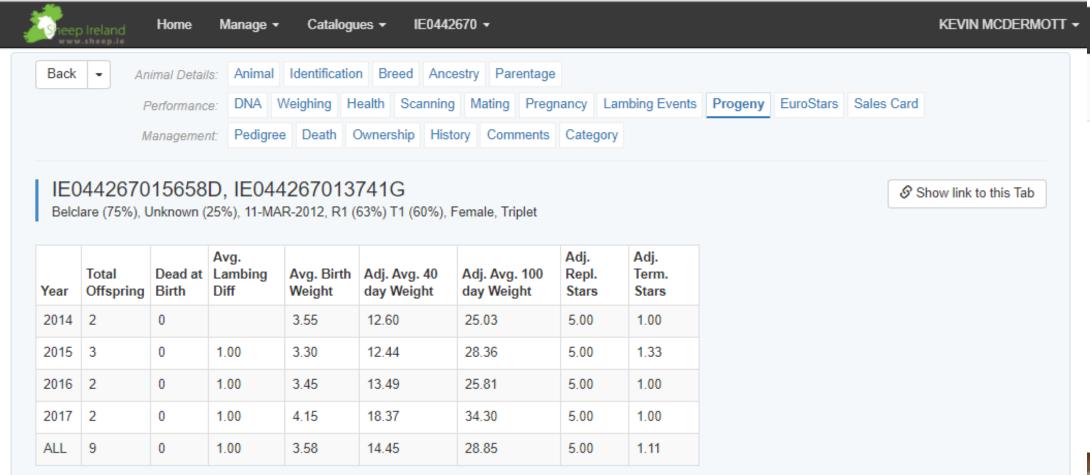
## High DQI flocks making more Genetic Gain







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### What Next?

- Continue to work with societies to increase the number of pedigree rams bred each year
- Continue to subsidise the cost of genotyping (to €15/Sample)
- Work with societies to increase the number of animals genotyped
- Increase the amount of Carcass data collected
- Increase the number of commercial records collected
- Establishing a baseline for GHG emissions in Sheep
- Lamb Eating Quality

