

# OviGen – the outputs

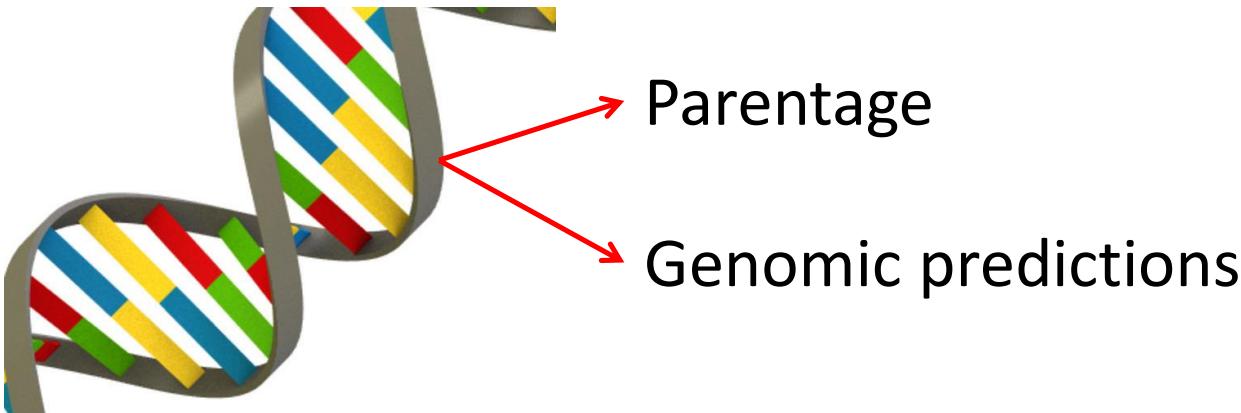
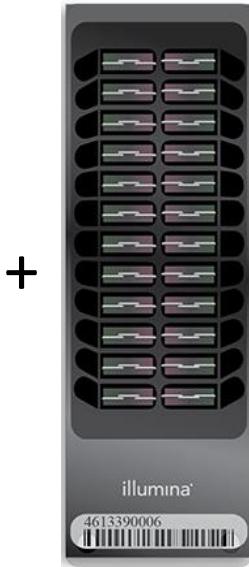
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# OviGen objective

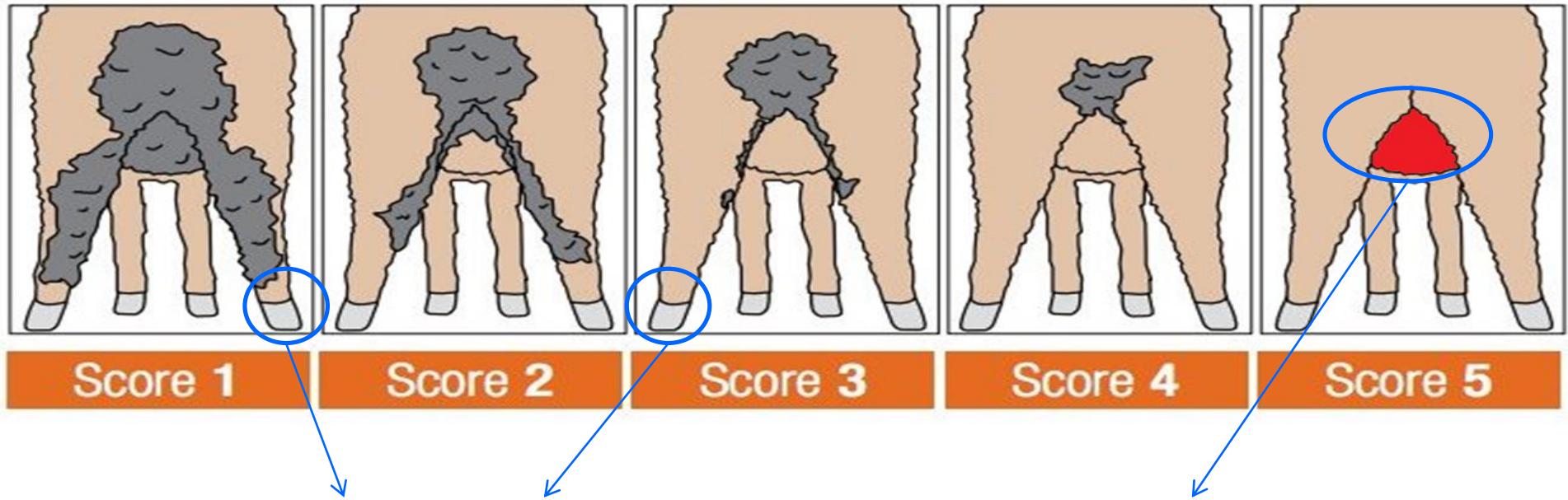


Parentage

Genomic predictions

# Health traits

Dagginess



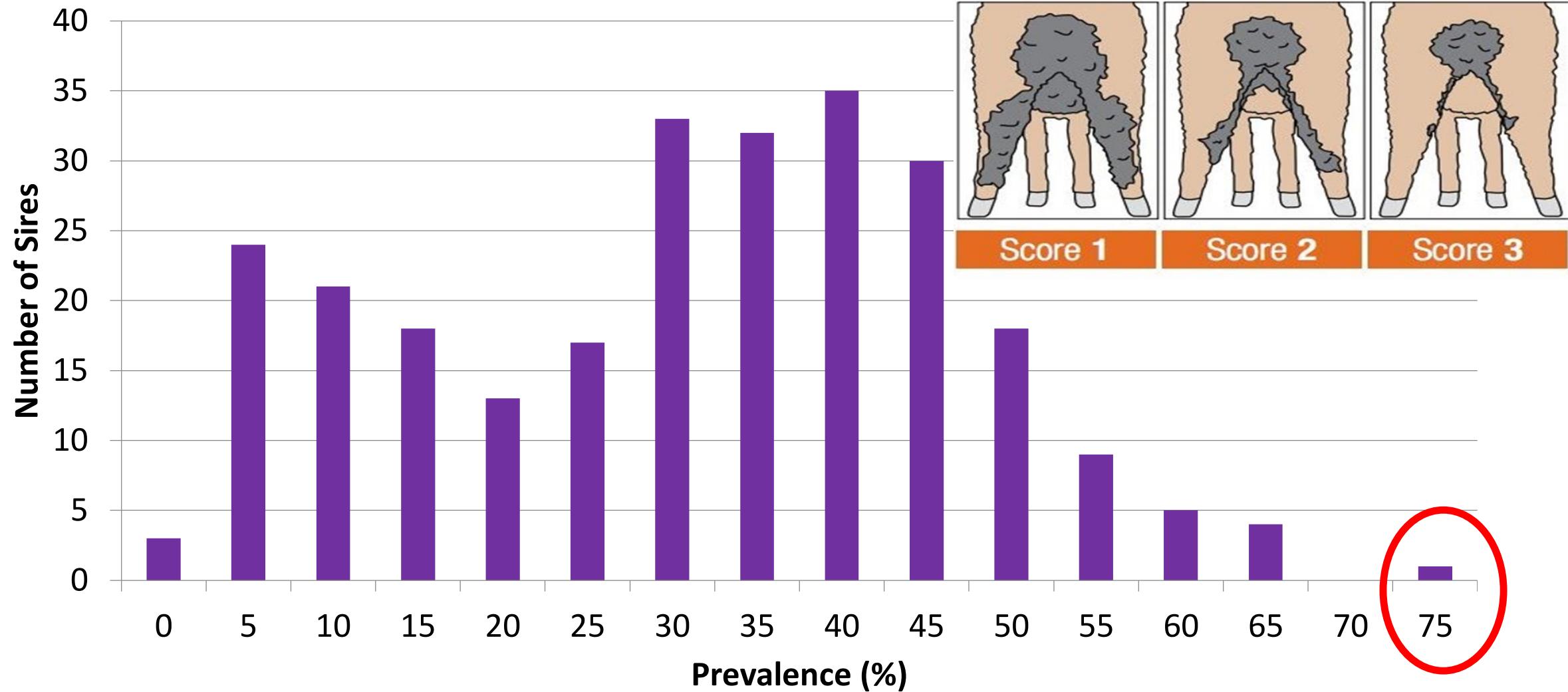
Lameness

- No = not lame
- Yes = any sign of lame

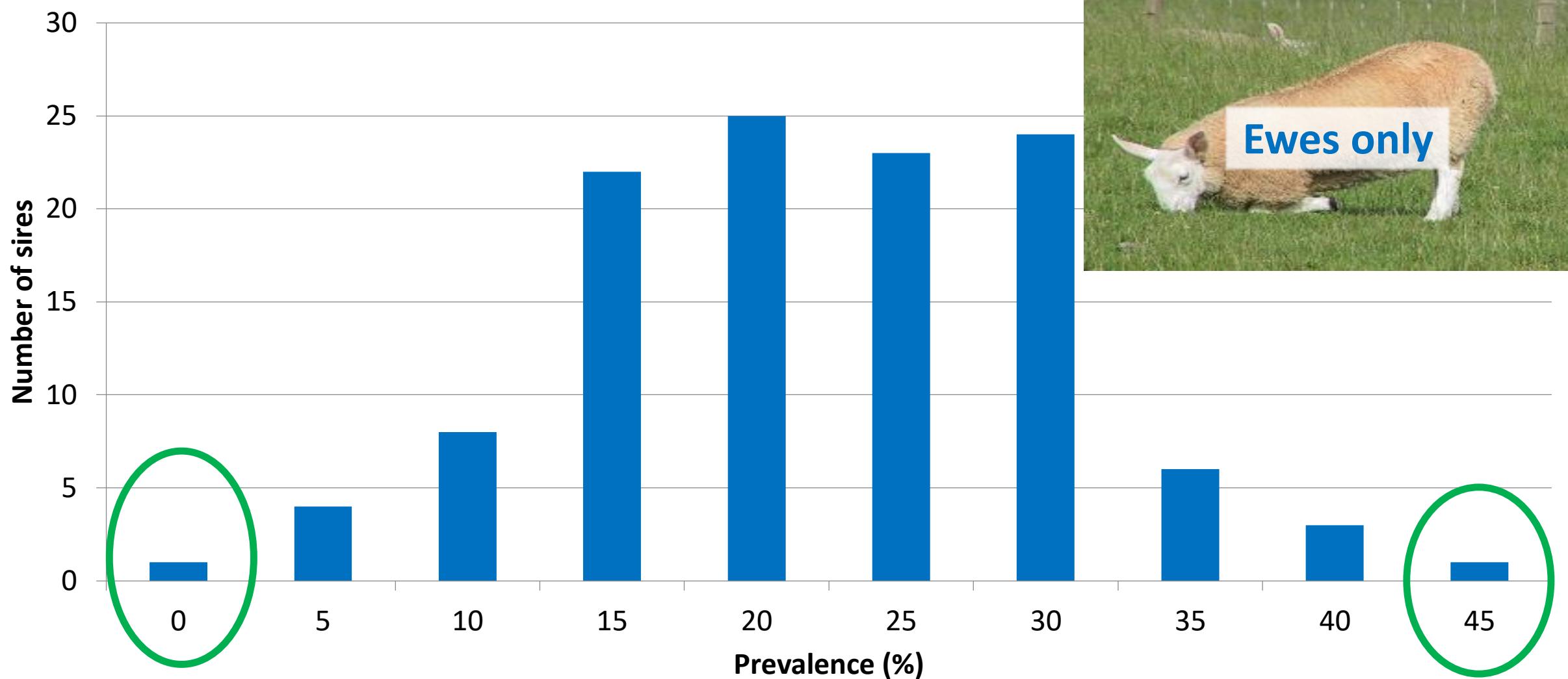
Mastitis

- No = no evidence of mastitis
- Yes = evidence of (historic) mastitis

# Sire prevalence - dagginess



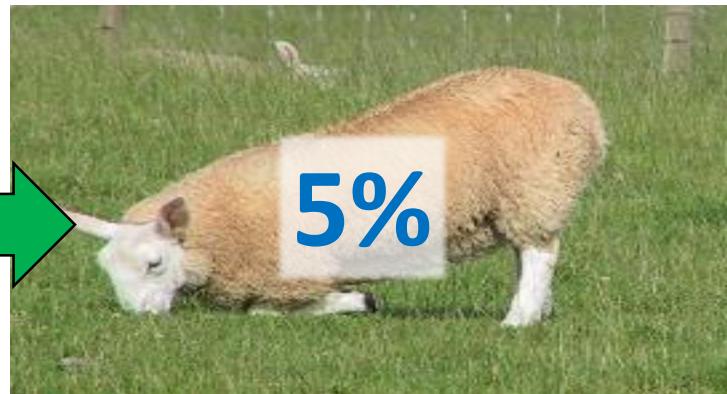
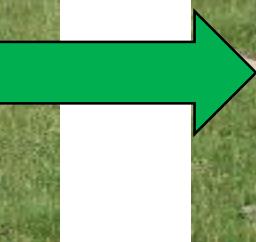
# Sire prevalence - lameness



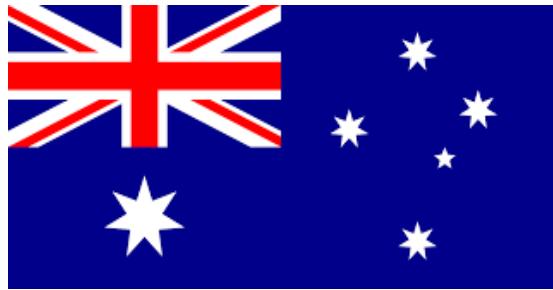
# Health index

Trait	Economic value	Relative emphasis (%)	
		Terminal	Replacement
Dagginess	-€0.34 (score)	1.15	0.17
Lameness – lamb	-€0.08 (%)	0.11	0.02
<b>Lameness - ewe</b>	<b>-€0.24 (%)</b>		<b>0.04</b>

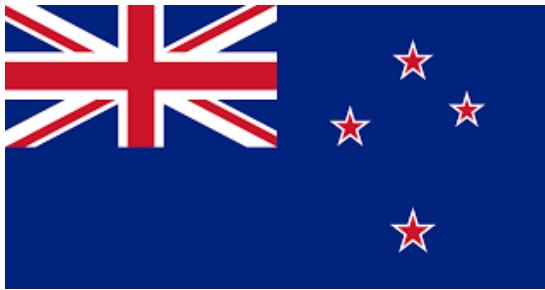
100  
ewes



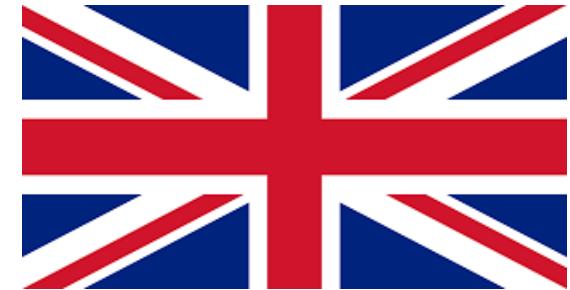
# Elsewhere...



Worm FEC



Worm FEC  
Facial Eczema  
Dagginess



Worm FEC



Lameness  
Dagginess

# Reducing the cost of genotyping

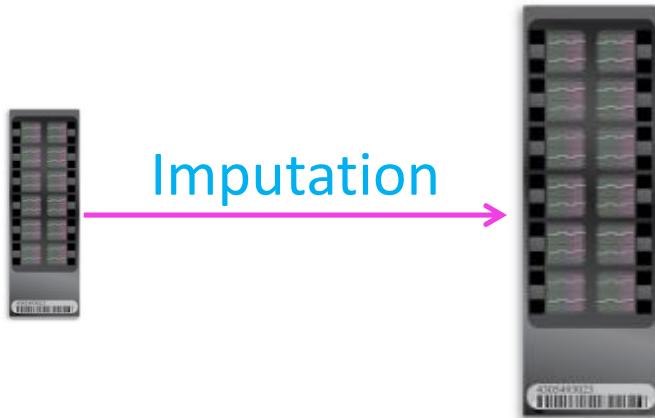


15,000 – 50,000  
DNA variants



50,000 DNA variants = €62.50  
15,000 DNA variants = €26.50

Aim: reduce the density of the panel without compromising genotype quality



Conclusion: at least  
**6,000** DNA variants  
required

Currently **€24.50** for  
50,000 DNA variants

↓  
Other genotyping  
technologies?

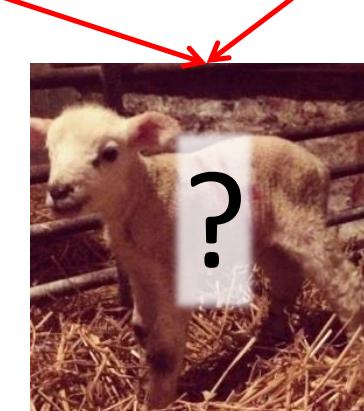
# Breed composition



50% CL : 25% CV : 25% SU

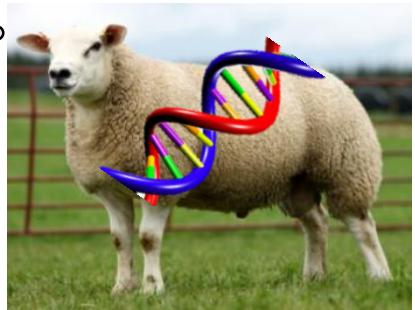
50% CL : 50% SU : 0% SU

50% CL : 0% CV : 50% SU

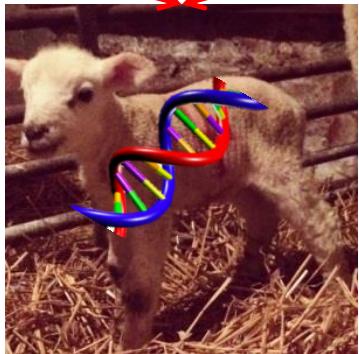


# DNA breed composition

Am I really a Texel?



Yes,  
97% Texel

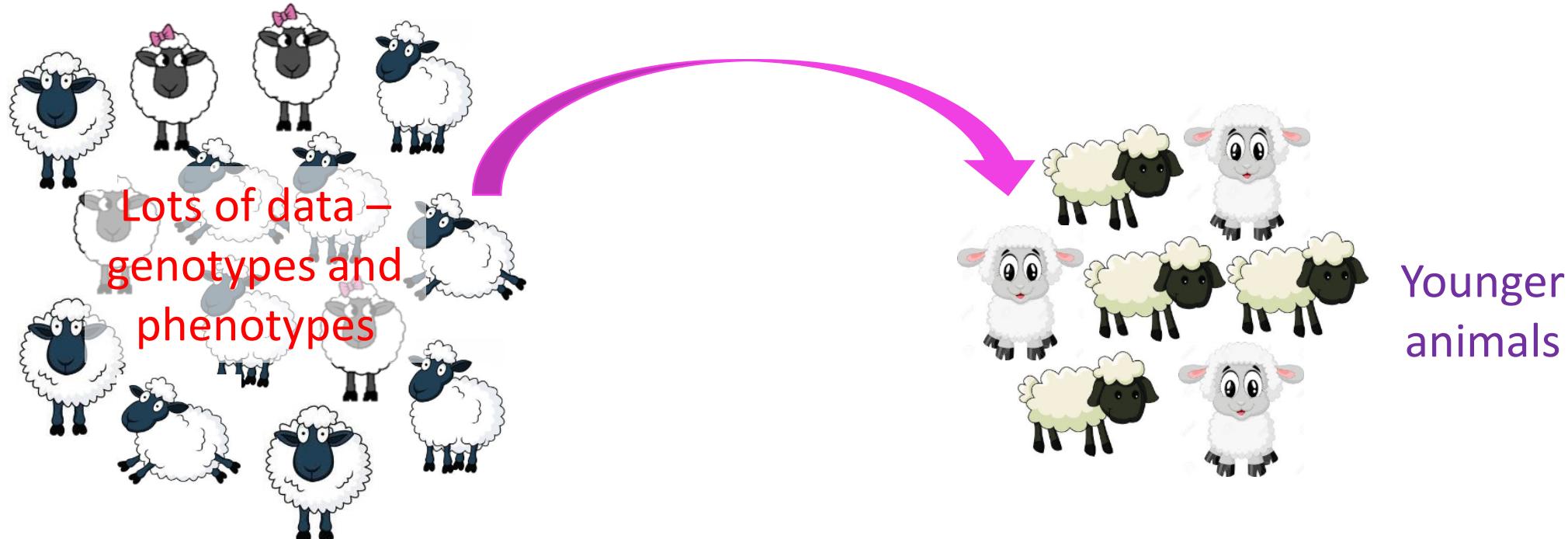


50% Charollais  
13% Cheviot  
37% Suffolk

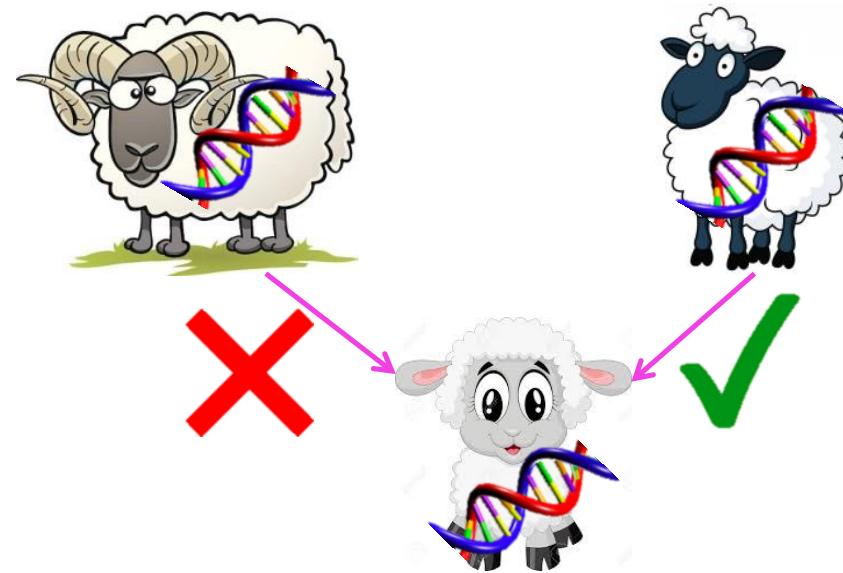


# Genomic predictions

- Non consistent across all traits
- Main issue – size of reference population



# OviGen achievements



A photograph of a rural landscape at sunset. The sky is filled with vibrant orange, yellow, and pink clouds. In the foreground, a green field is dotted with several sheep grazing. A large, leafy tree stands prominently in the middle ground on the right side. Bare trees are scattered across the horizon. The overall atmosphere is peaceful and pastoral.

# Questions?