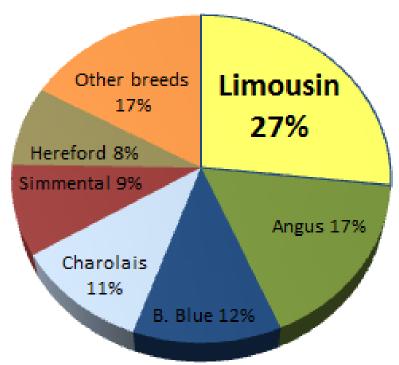
Adding Value in the Supply Chain



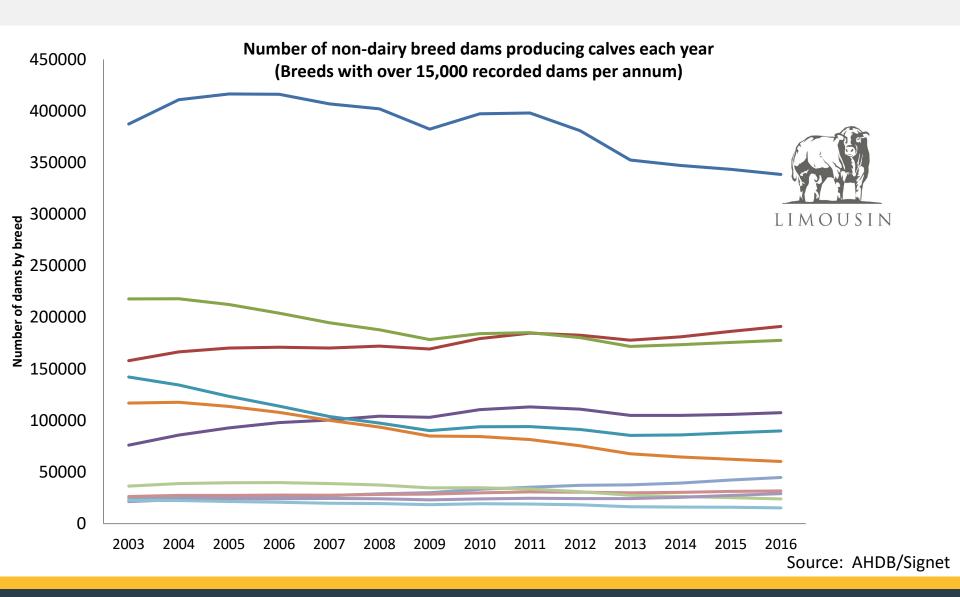
16th November 2019

Quick Background:



Proportion of GB Prime Slaughter by Breed: BCMS 2016





10 Year Plan of Breed Improvement

Commercial sector demands will change over time – markets, pricing structures and trading environments.

Outcome

Creation of a population of market-relevant genetics that deliver key income opportunities across all supply chain sectors

Consistent supply of volumes of beef to the market within reqd. specification

Growth of Limousin market share

New markets and income streams for Limousin breeders

10 Year Plan of Breed Improvement

Commercial sector demands will change over time – markets, pricing structures and trading environments.

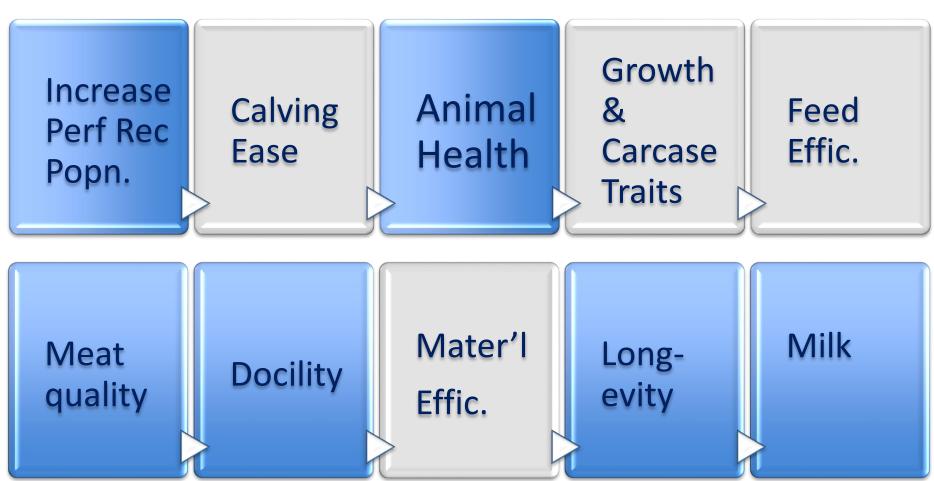
As the breed changes, the Improvement Plan...

- ensures the change is addressing industry need and is desirable
- helps prioritises and plan investment from within BLCS and from external sources
- Is valued amongst funding and project partners

10 Key Areas...



10 Key Areas...



Myostatin

Research demonstrates +ve relationships with:

Meat yield – up to 19% increase

Meat Quality: increased tenderness, reduced fat content and a higher proportion of polyunsaturated fats.

Feed efficiency: lower intake per kg meat

Calving ease: production and welfare values

Carcase Trait GEBVs: A First in UK

- £1.5m project funded by Govt
 Technology Strategy Board
- BLCS, ABP and SRUC are partners
- To use VIA measurements, BCMS records and information from DNA in breeding values to identify superior genetics for carcase traits

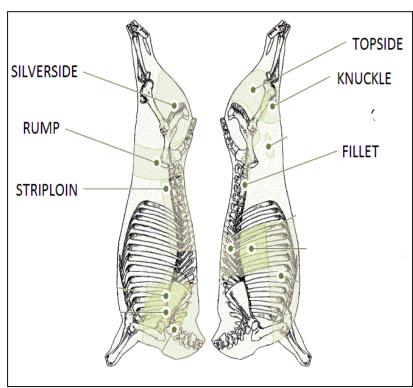




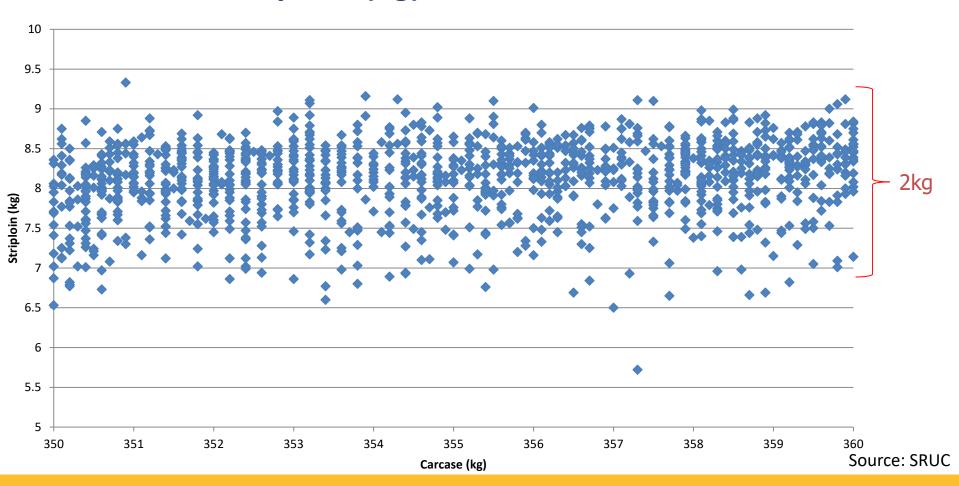
The New Traits...

- ✓ Age at Slaughter
- ✓ Carcase Weight
- ✓ 6 Primal Cuts...

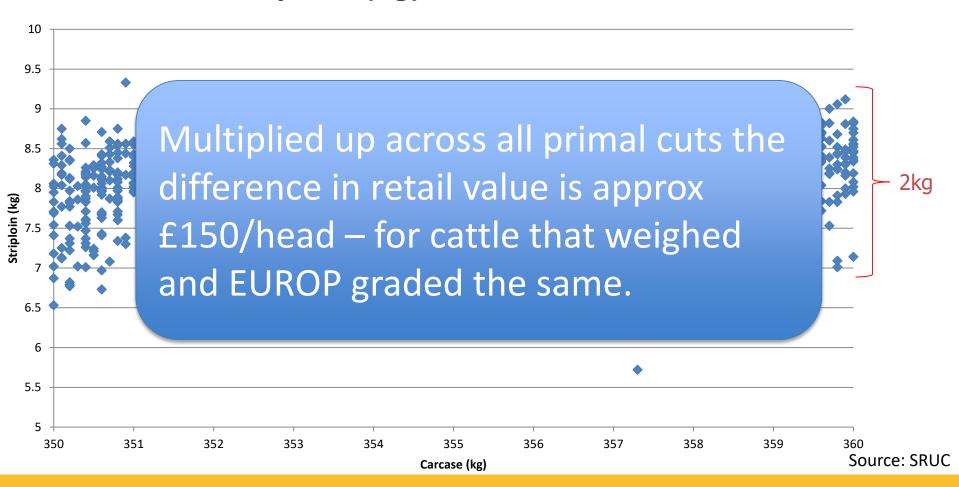




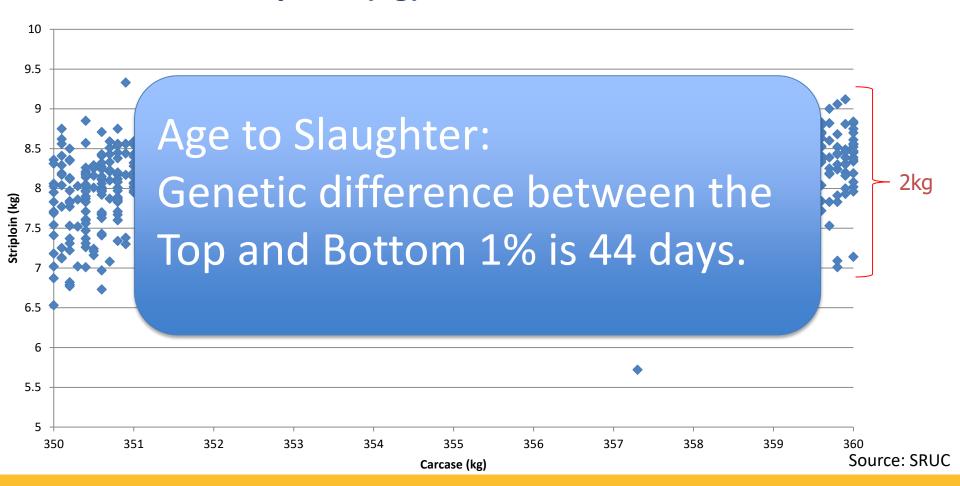
Variation in Striploin (kg) – Carcase Weight 350-360kg



Variation in Striploin (kg) – Carcase Weight 350-360kg



Variation in Striploin (kg) - Carcase Weight 350-360kg







New Limousin GEBVs for...

Age at 1st
Calving

Calving Interval



Longevity

Calf Survival

Some Interim Findings...

- ✓ Nationally 5% lower heifer replacement rate
- ✓ Nationally 2% higher Longevity at 8 years of age
- ✓ Nationally up to 1.5% lower Calf Mortality
- The GEBVs are providing opportunity to extend these differences further still
- SRUC studies have previously valued re-breeding success at approx £42/cow pa

Feed Efficiency

- £1.75m funded DEFRA & AHDB
- SRUC & AHDB as partners. Industry consortium.
- Limousin the primary breed.



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Commercial Significance Finishing Cattle



£19/head lower feed cost to gain 100kg LW 12% saving

Over a 180 day feeding period, saving ~£50/hd



Feed Efficiency

- £1.75m funded DEFRA & AHDB
- SRUC & AHDB as partners. Industry consortium.
- Limousin the primary breed.

Commercial Significance
Breeding Herd



Feed saving £100 per cow/calf unit per year (SRUC/Stabilisers)



Feed Efficiency

- £1.75m funded DEFRA & AHDB
- SRUC & AHDB as partners. Industry consortium.
- Limousin the primary breed.
- GEBVs possible
- Establishing data collection beyond project



The plan taking shape...

Carcase
Quality
£150/calf

Age to
Slaughter
£88/calf

Female Fertility £42pa

Feed
Efficiency
£50/calf £100/cow



Adding Value in the Supply Chain

Commercial Value

Highest % in new and evolving market specifications

Low Cost of Production

Efficient dams, efficient sires, best use of resource

GENETICS FOR



THE SUPPLY CHAIN

Ethical Production

rates, disease solutions, calf survival, lower carbon emissions