



CBV: Commercial Beef Value

Margaret Kelleher

mmkelleher@icbf.com

ICAR 2024

Session 1A

*Decision Support Tools of the Future –
Promoting Sustainability Farm Management*



An Roinn Talmhaíochta,
Bia agus Mara
Department of Agriculture,
Food and the Marine

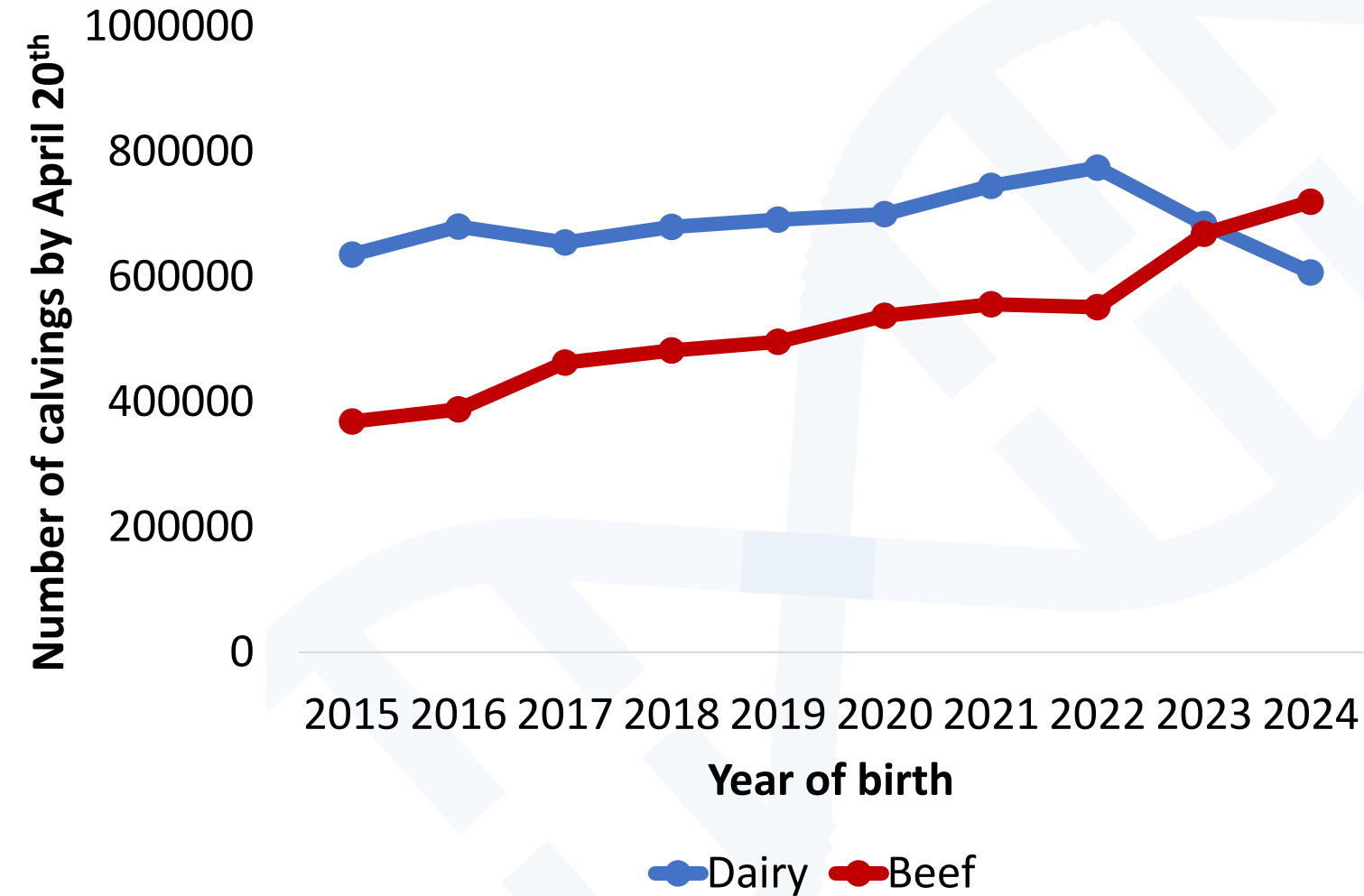


AgTech - it's in our DNA

Who will leave
more profit??



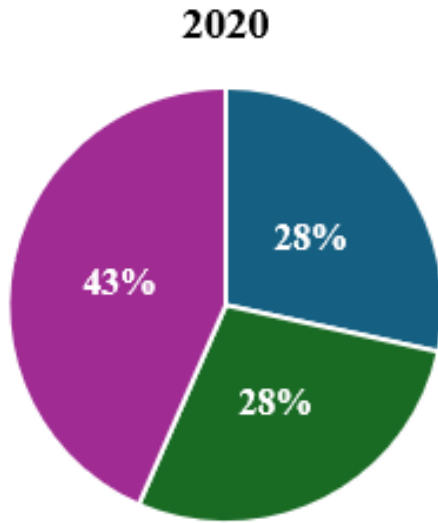
New trends emerging



1. Dairy-beef increasing
2. Timing of beef use earlier
3. More precision in mating decisions

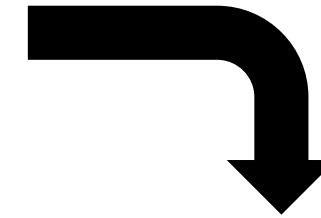


Calf crop trends

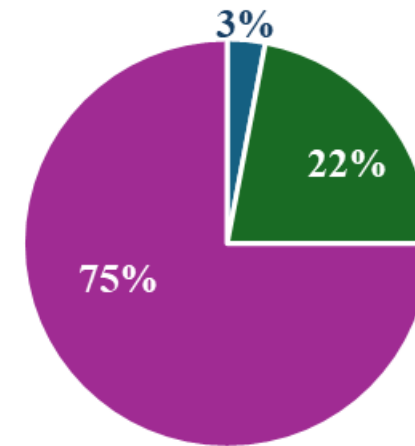


■ Dairy males ■ Dairy females ■ Beef from dairy

- Dairy males displaced by dairy-beef
- Sexed semen adoption increasing
- Projections: approximately 75% of calf crop from dairy will be dairy-beef



2030??



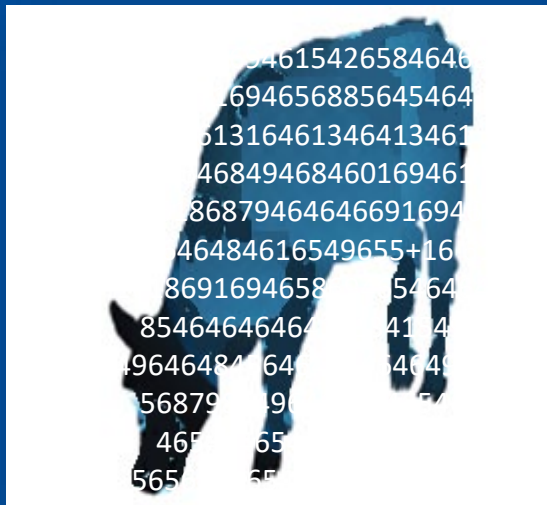
1. Who will rear them?

2. Are they good quality and how does the farmer know??

Tools to improve profitability



Genetic merit indices for
breeding



Decision support tools for
management

Genetic merit indices



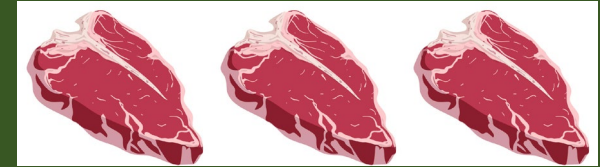
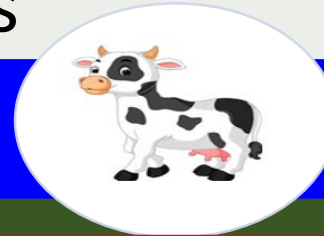
**Breeding
indices**



Purpose: To breed
dairy replacements

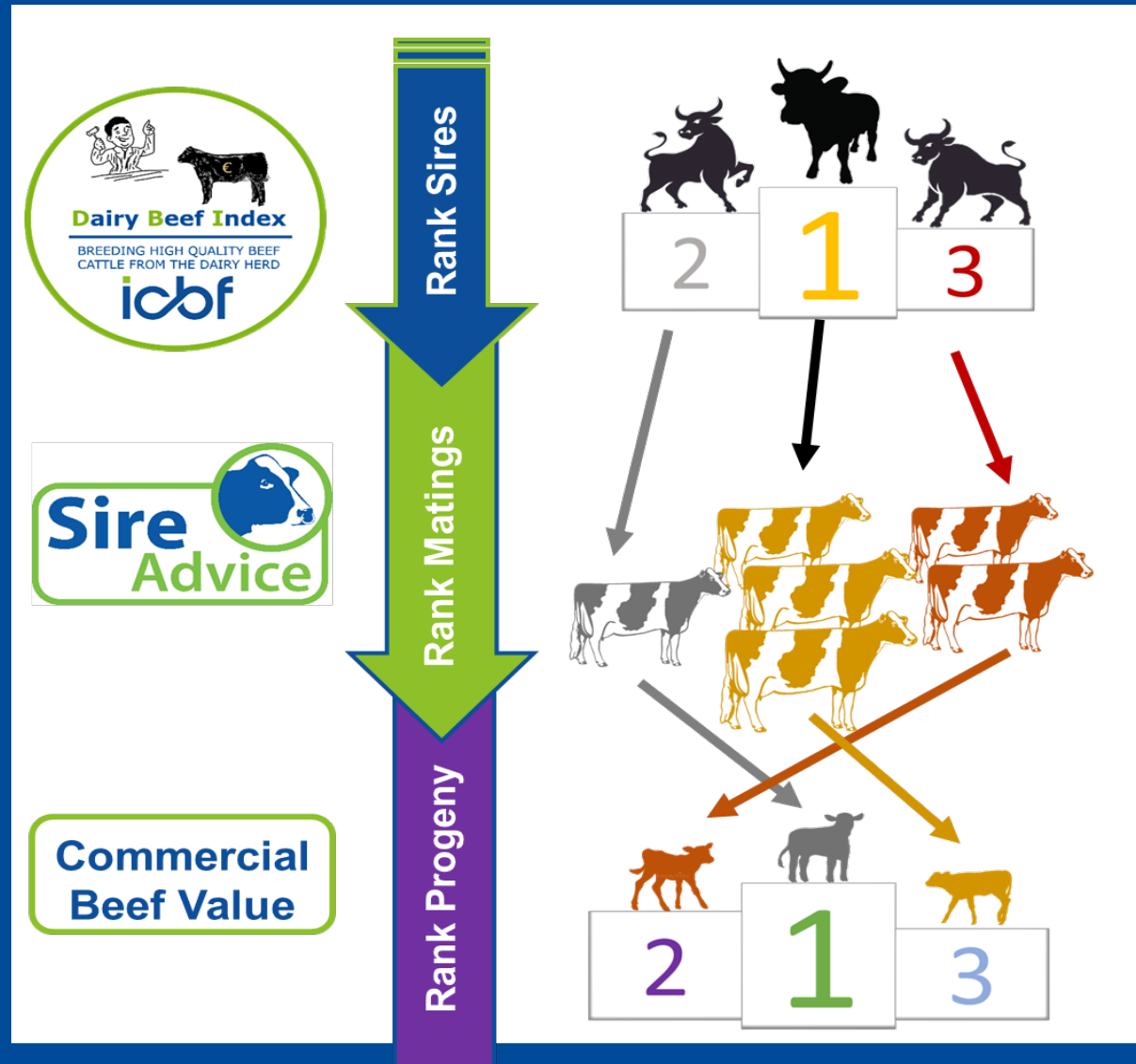
Using: Dairy sires

EBI



Decision support tools

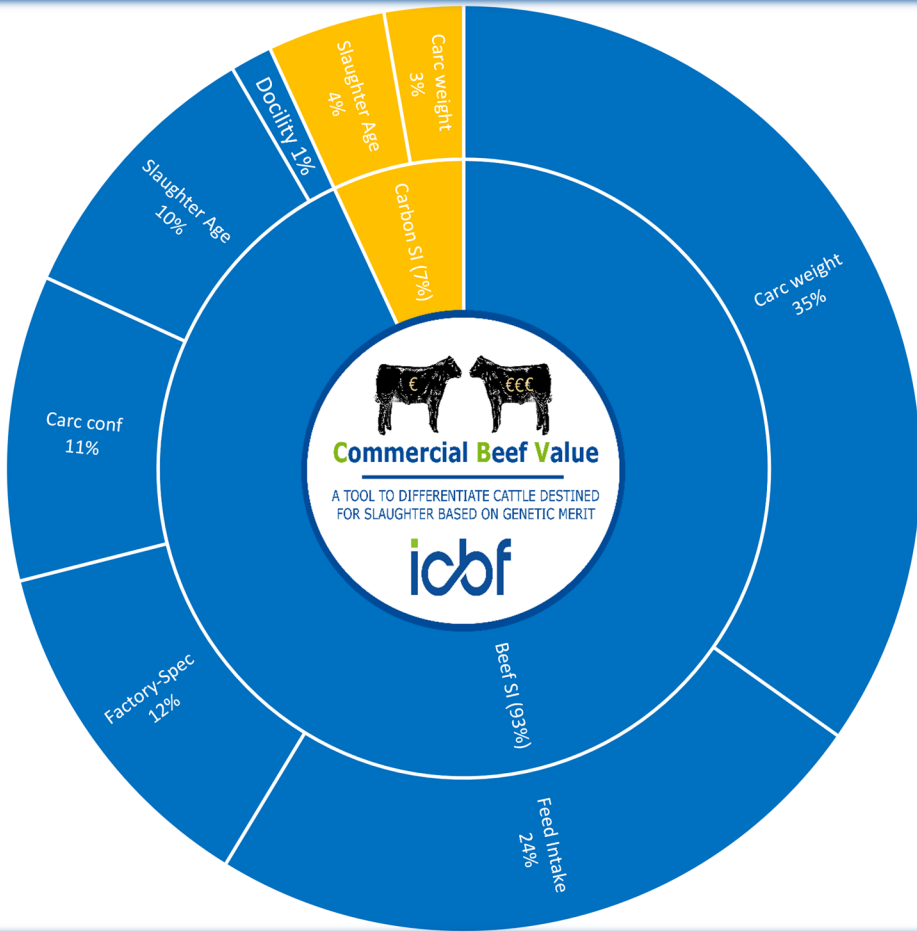
Management tools



Ross Evans
22nd May

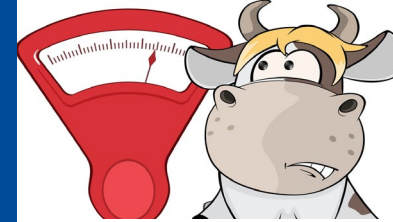
The evolving landscape of beef from the dairy herd: A perspective from Ireland

CBV: Commercial Beef Value



Tool for beef farmers to give a better insight into non-breeding animals profit potential

TRAITS



Carc



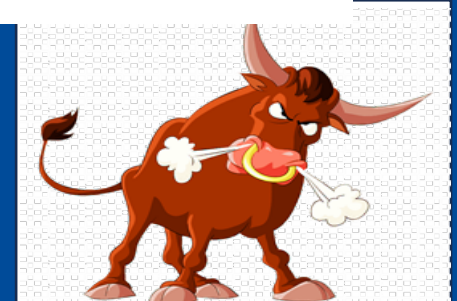
tion



F



Age at finish



Docility

Commercial Beef Value (CBV)


Star Ratings & Breed Types

icbf	CBV Star-rating Percentiles*				
	★★	★★★	Average	★★★★	★★★★★
Across Breed	€23	€89	€134	€192	€261
Suckler	€199	€237	€251	€265	€293
Dairy x Beef	€52	€72	€82	€93	€125
Dairy X Dairy	-€19	-€4	€2	€8	€21
* Based on the Sep 2023 evaluation					

- 3 x breed types
- More informative for farmers

Commercial Beef Value (CBV)

Breed Percentiles

	2023 Born Dairy x Beef Calves (dairy dams mated to beef sires)				
Sire Breed	★★	★★★	Average	★★★★	★★★★★
Angus	€53	€66	€72	€79	€98
Aubrac	€112	€126	€132	€139	€160
Blue	€122	€150	€160	€169	€187
Charolais	€139	€159	€167	€177	€200
Friesian	-€11	€2	€7	€12	€25
Hereford	€40	€54	€61	€69	€90
Limousin	€137	€152	€159	€168	€192
Simmental	€70	€87	€97	€108	€132

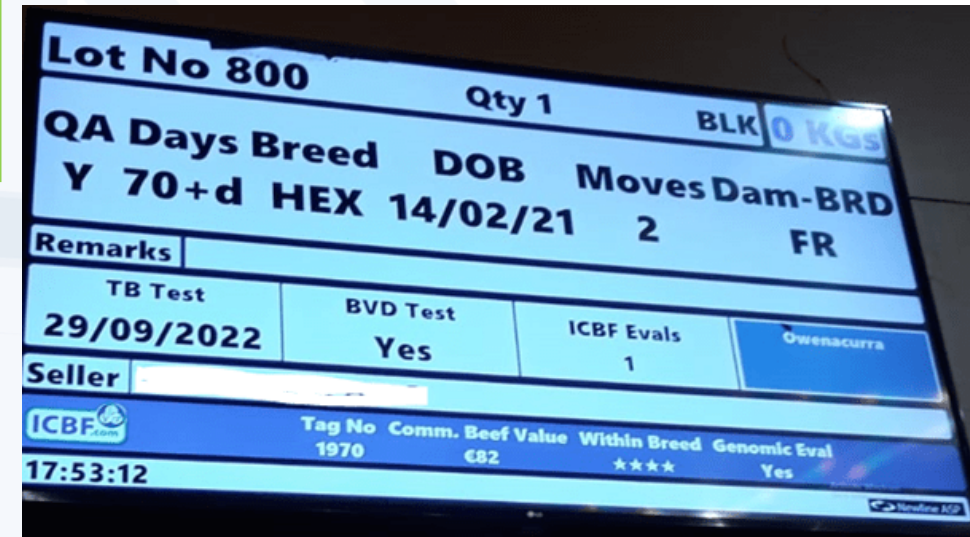
Advice to farmers: Use this table as a guide when buying calves based on CBV

Where to find CBV?

Auction
houses

Mark Waters

Session 9: Unlocking Genetic Potential: The National Genotyping Programme for Ireland's Cattle Herd



Commercial Beef Value

www.icbf.com -> Herdplus members

Showing 1 to 63 of 63 entries

Hide filters

Jumbo	Animal Number	Breed	From Date	To Date	Dam	Sire	Genc	Genc	Non-Gen	Bri	From	From	From	From	From
Jumbo	Animal Number	Breed	From Date	To Date	Dam	Sire	Genc	Genc	Non-Gen	Bri	To	To	To	To	To
Animal Details											Commercial Beef Value				
Jumbo	Animal Number	Breed	Birth Date	Sex	Dam	Sire	Genomic Eval	Geno Sire Verified	Non-Geno Sire Pass	Breed Type	Value €	Star Ranking (Across Breed)	Star Ranking (Within Breed Type)	Carcass Weight (kg)	Carcass Conformation (1-15 scale)
4931	3722	AA (63%), HO (31%)	11-APR-24	M	372	AA4603	N	N	Y	Dairy x Beef	132	★★★★★	★★★★★	5.8	0.14
4934	3722	AA (50%), HO (44%)	16-APR-24	M	IE	AA2163	N	N	Y	Dairy x Beef	109	★★★★★	★★★★★	-1.1	-0.08
4938	3722	AA (50%), HO (31%)	19-APR-24	M	IE	AA2163	N	N	Y	Dairy x Beef	96	★★★★★	★★★★★	0.0	0.13

Validation: Phenotypic analysis

A: Dairy steers finished in 2023

CBV Rank	Calf Price	Finishing Price	Finishing Age
Top 10%	€99	€1,538	817

B: AA X FR steers finished in 2023

CBV Rank	Calf Price	Finishing Price	Finishing Age
Top 10%	€249	€1,763	778

Btm 10%	€56	€1,263	833
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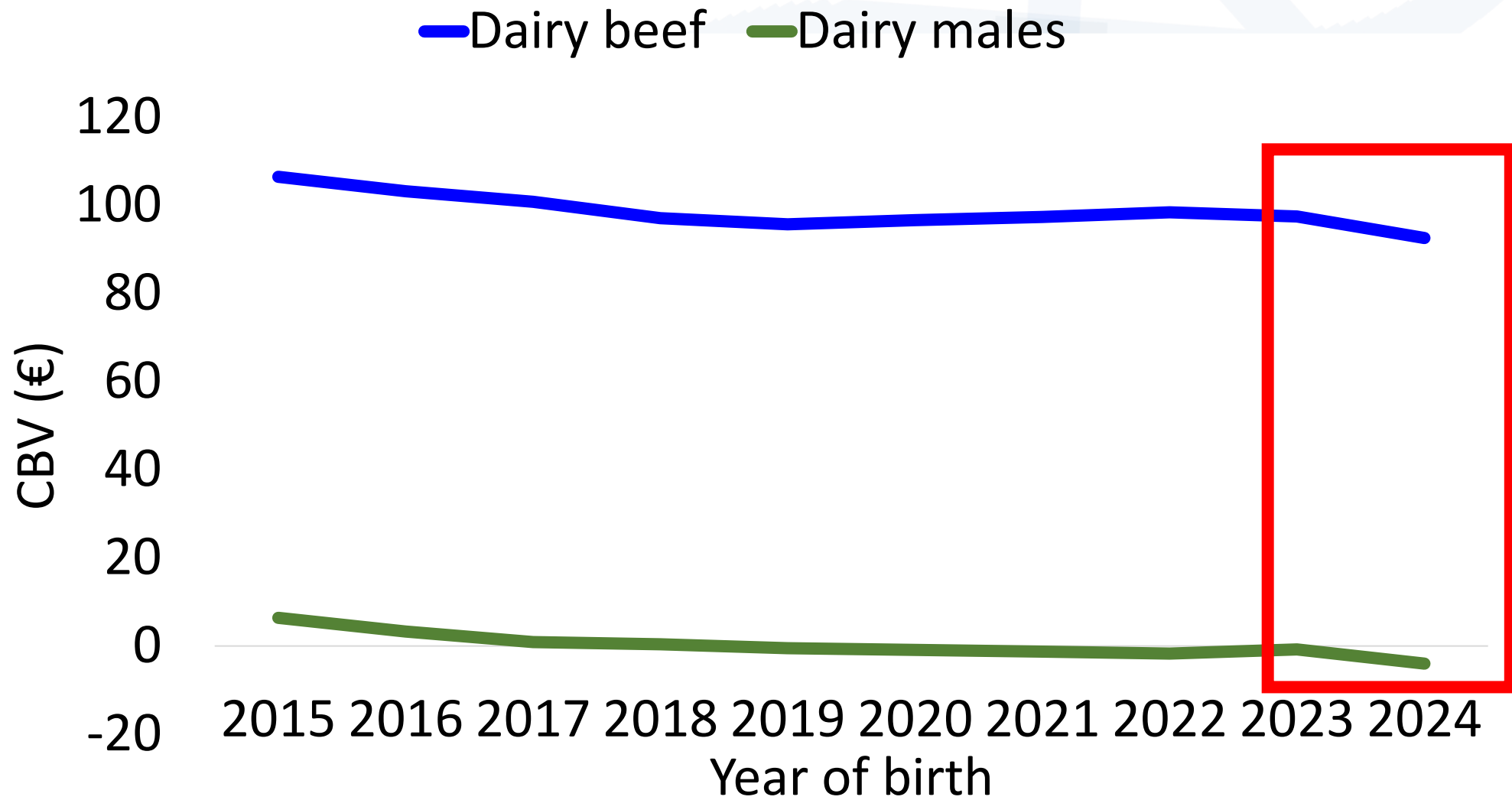
Btm 10%	€191	€1,490	831
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Validation: Teagasc Research Trial

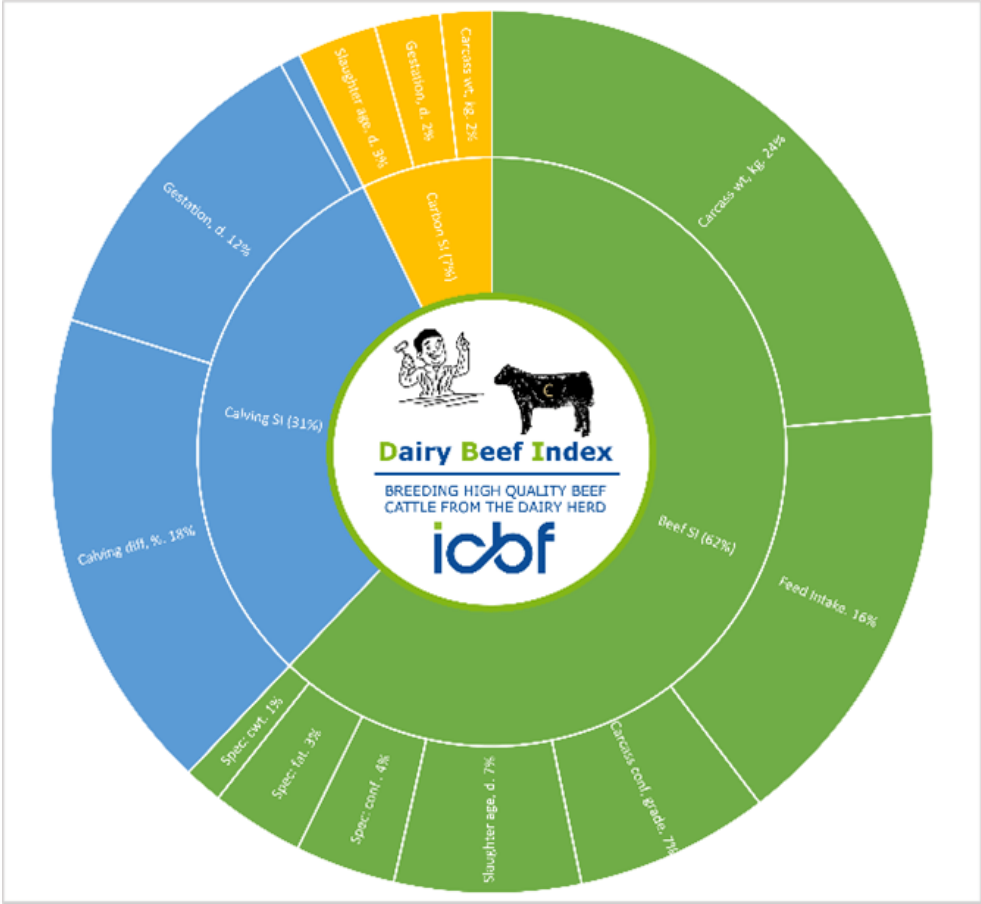
Animal group	CBV
HF	-€1
High AA (high beef sub index AA €107)	€95
Low AA (low beef sub index AA €65)	€61

Source: Nicky Byrne, Teagasc Grange

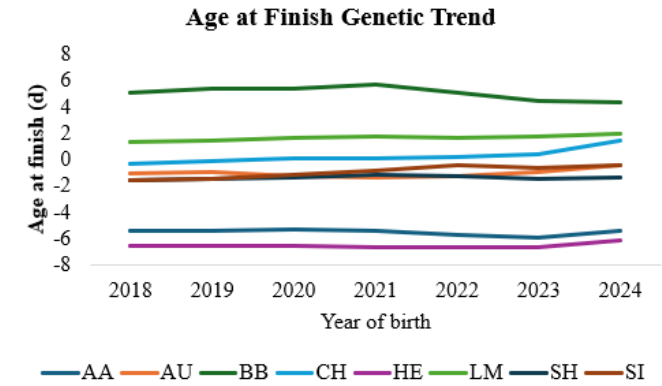
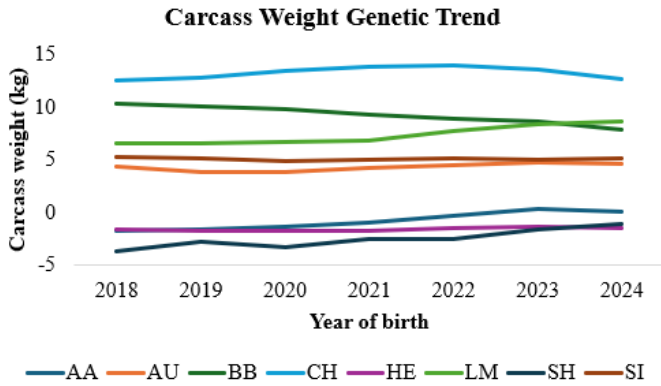
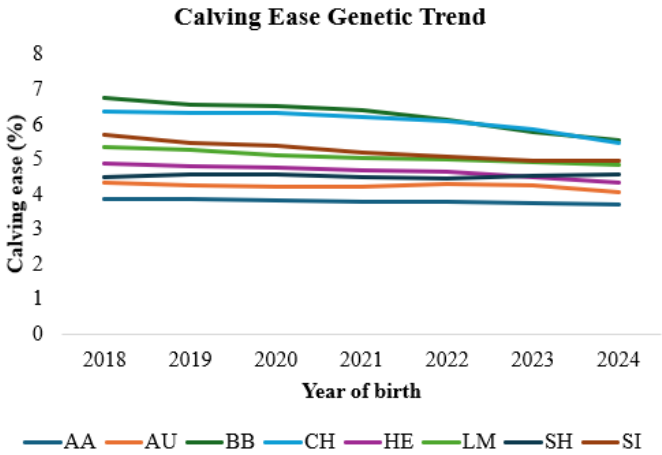
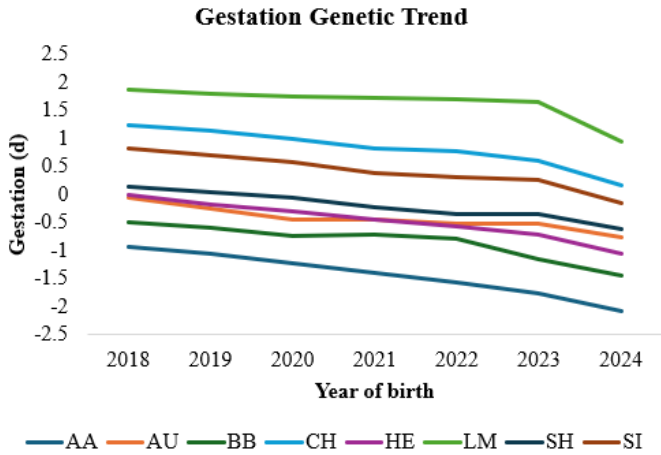
Job done??



Dairy farmers selection decisions



Calving related traits improving



Beef related traits stagnant or declining

Minimum Beef Bull Requirements to achieve High CBV progeny

Siobhan Ring, ICBF

Required:

- Dairy Herd EBI Scorecard: Beef SI
- Beef SI of Beef Bull’s DBI

Herd Number: D3250947 (Eval Nov 2022)	Your Herd	National Average	National Top 10%	Your National Rank	Star Rating ¹
Herd EBI	€202	€159	€194	95%	*****
Milk Sub-Index (Milk, Fat & Protein)	€ 60	€44	€60	91%	*****
Fertility Sub-Index (Calving Interval & Survival)	€ 97	€66	€82	97%	*****
Carbon Sub-Index	€ 2	€7	€14	20%	*
Calving Sub-Index (Gestation, Calving Difficulty, Mortality)	€ 32	€28	€37	77%	****
Beef Sub-Index (Carcass Weight, Conformation & Fat)	€ -4	€-2	€4	39%	**
Maintenance Sub-Index (Cow Liveweight)	€ 7	€13	€20	7%	*
Management Sub-Index (Milking speed & Temperament)	€ 2	€1	€3	79%	****
Health Sub-Index (SCC, Mastitis, & Lameness)	€ 4	€6	€9	30%	**
¹ Star Rating: * = 1 - 20% ** = 21 - 40% *** = 41 - 60% **** = 61 - 80% ***** = 81- 100%					

Table. Min required DBI Beef SI of (AA/HE) beef bulls to achieve a 4* or 5* CBV dairy-beef calf categorized by dairy herd ranking on EBI Beef SI

Herd Rank on Dairy Beef SI (EBI)	Herd Dairy Beef SI (EBI)	Beef Bull Beef SI (DBI) to achieve CBV of:			
		€80 [4*CBV]	€93 [4*CBV]	€123 [5*CBV]	€176 [5*CBV]
Average of 1* Herds	-€13	€86	€99	€129	€182
Average of 2* Herds	-€5	€78	€91	€121	€174
Average of 3* Herds	-€2	€75	€88	€118	€171
Average of 4* Herds	€0	€73	€86	€116	€169
Average of 5* Herds	+€4	€72	€82	€112	€165

Summary

1. Who will rear them?

2. Are they good quality and how does the farmer know??

- Rearers can influence change in this area by using CBV
- Future improvements;
 - Advance the CBV
 - Increase adoption rates
 - Dairy-Beef Welfare scheme



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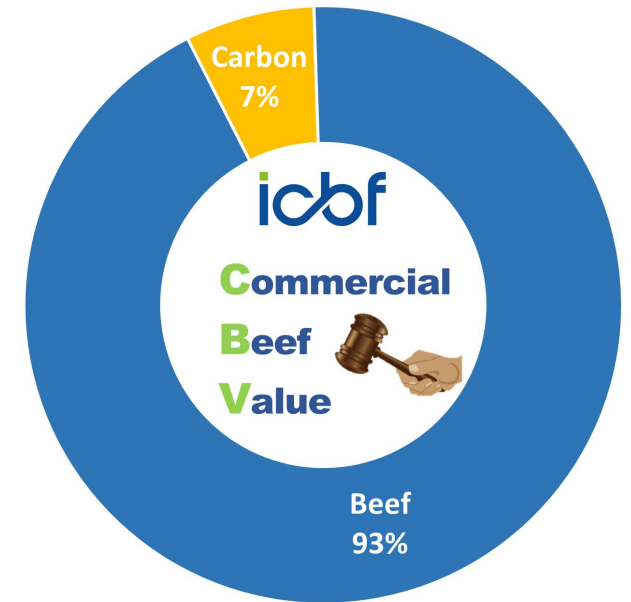
animal

Volume 15, Issue 2, February 2021, 100077



Formulation of a decision support tool incorporating both genetic and non-genetic effects to rank young growing cattle on expected market value

F.L. Dunne^{a, b}, R.D. Evans^c, M.M. Kelleher^c, S.W. Walsh^b, D.P. Berry^a



Take home messages;

- ☐ CBV is a tool for beef farmers to leverage information when buying stock
- ☐ Potential to drive the needed change where breeders respond effectively to industry demands

Our Farmer & Government Representation



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Food and the Marine



Our AI & Milk Recording Organisations



Our Herdbooks



Acknowledging Our Members



Thank you!

