

Breeding values: your tool for looking under the hood of your next sire

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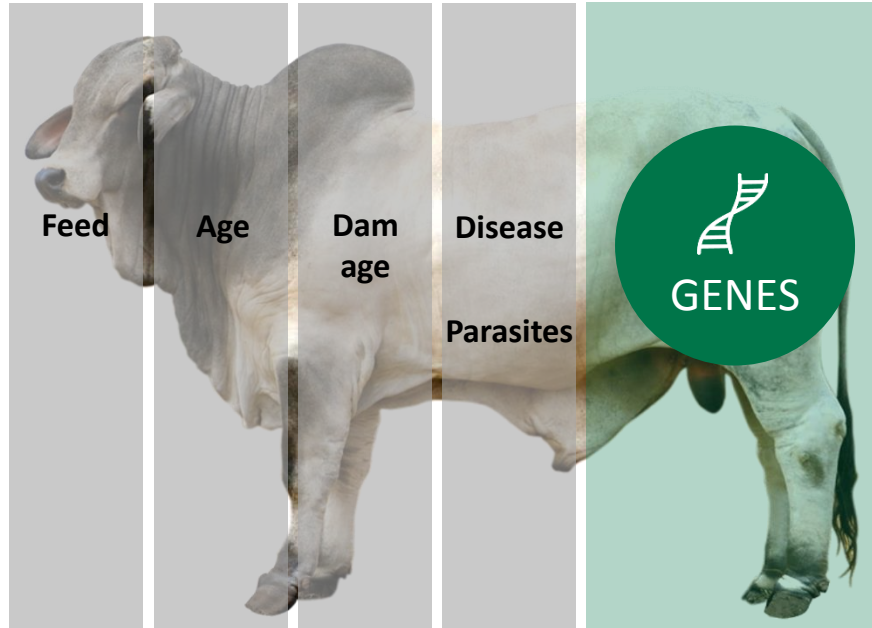


1. Why breeding values matter

1.1 What influences an animal's performance?

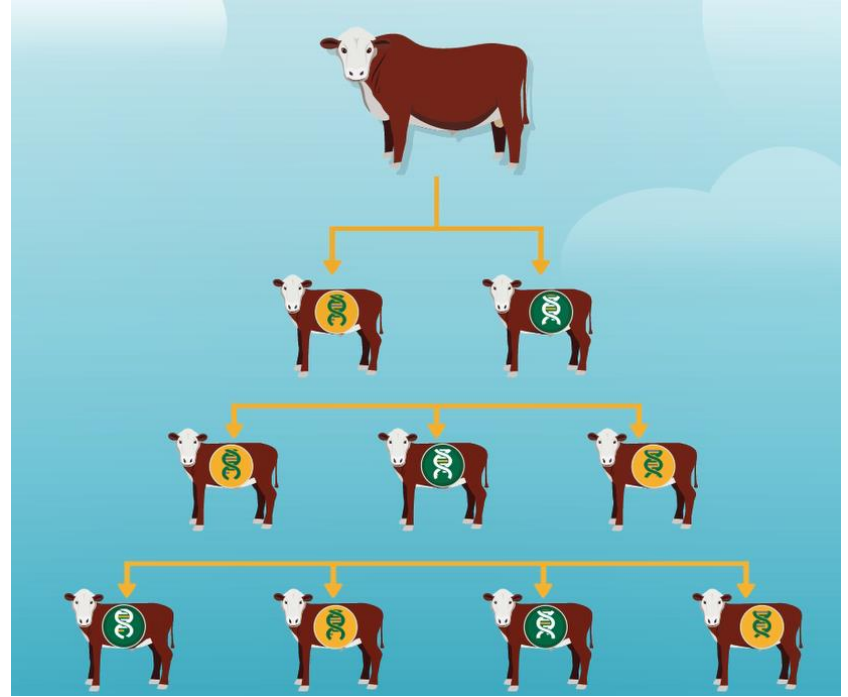
1.2 Looking under the hood

1.1 What influences an animal's performance?



Remember: the basics have not changed.

1.2 Looking under the hood



We can't see many profit drivers. That's what breeding values are for.

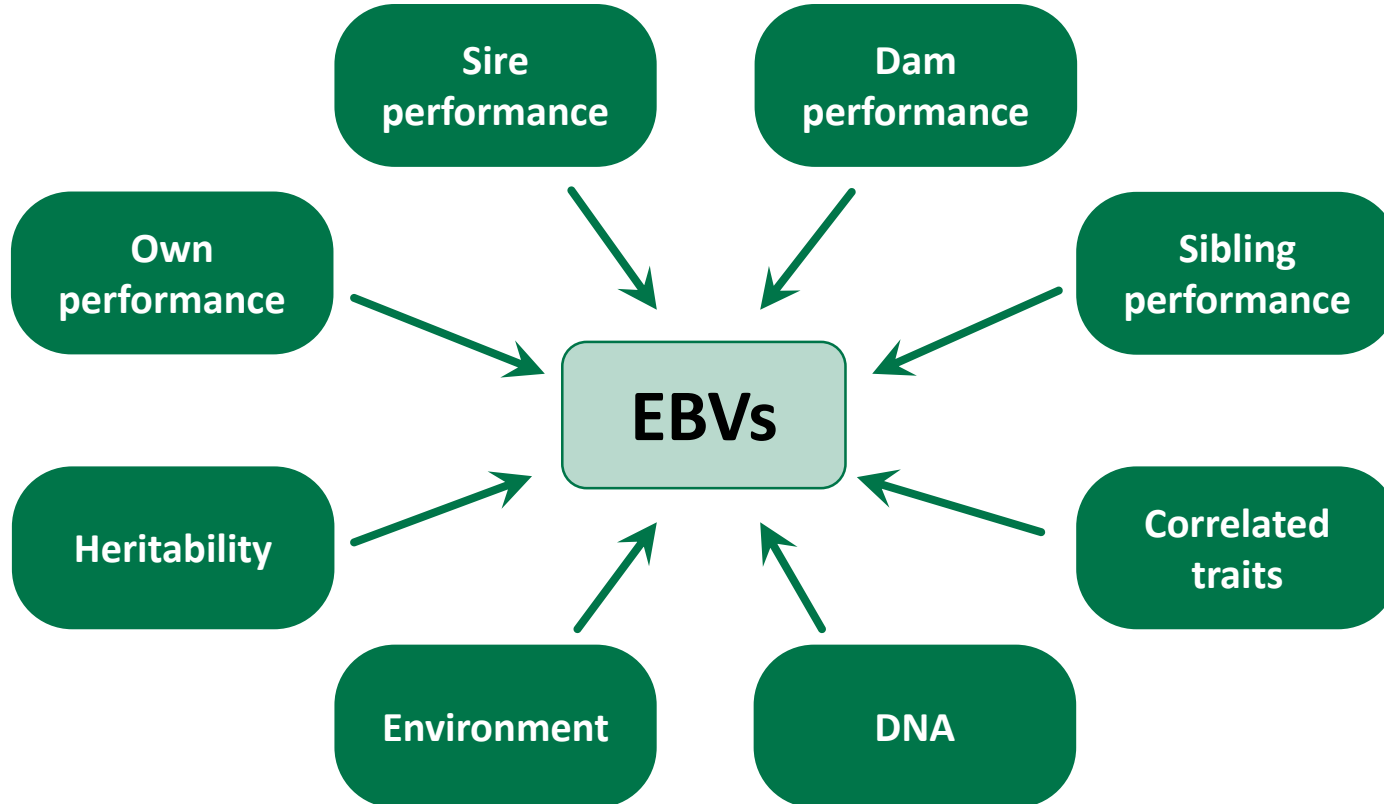
1. Summary

Breeding values help remove non-genetic factors that impact the way a bull looks on sale day.

2. How breeding values help with buying bulls

- 2.1 Estimated breeding values
- 2.2 Available traits
- 2.3 Compare two bulls
- 2.3 Designing a breeding objective
- 2.4 Linking your business to genetics

2.1 Estimated breeding values



2.2 Available traits



Fertility

- Days to calving



Calving ease

- Calving ease daughters



Growth traits

- 400 day weight
- Mature cow weight



Carcass traits

- Carcass weight
- Intramuscular fat



Temperament

- Flight speed

2.3 Compare two bulls

400 day weight	Bull A	Bull B
EBV	+36	+24
Accuracy	65%	67%
Percentile	15%	60%
Breed average	+ 26	+26

Bull A vs Bull B

$$36 - 24 = 12\text{kg}$$

$$12/2 = \underline{6\text{kg}}$$

Bull A will have progeny that are on average 6kg heavier than progeny from Bull B.

2.4 Designing a breeding objective



Environment



Target market

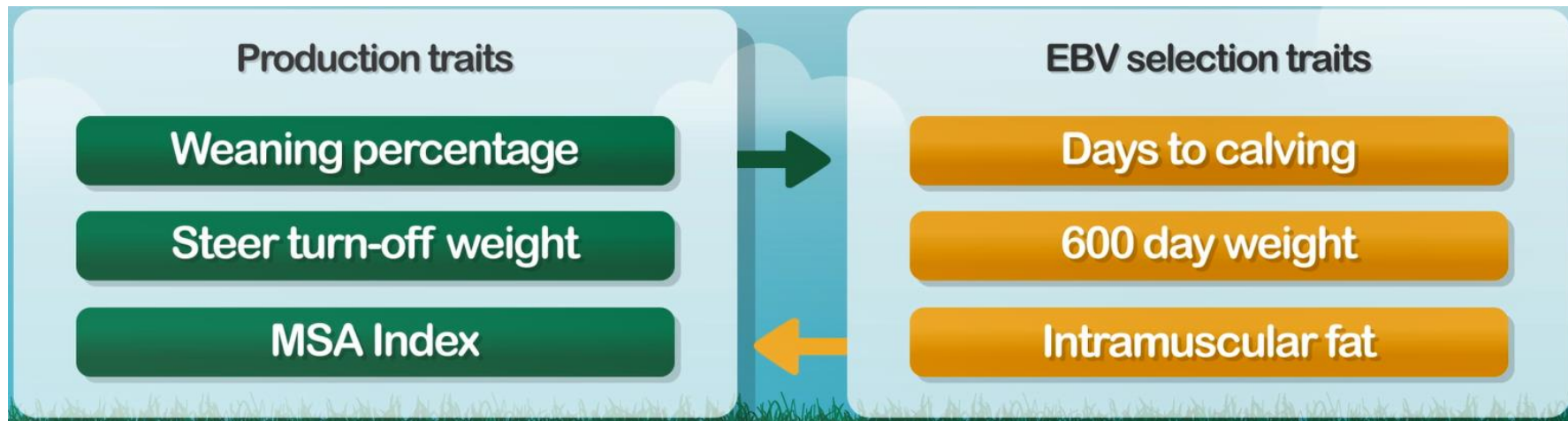


Herd performance



Profit drivers

2.5 Linking your business to genetics



Matching production traits with EBVs is a key step to find the right bulls for you!

2. Summary

Writing a breeding objective helps you work out which breeding values to use.

A woman with short brown hair, wearing a white cowboy hat and a grey jacket over a blue and white checkered shirt, stands in the center of the frame. She is smiling slightly. In the background, a herd of brown cattle is visible, slightly out of focus. The setting appears to be a rural field with trees in the distance.

3. Kara Knudsen



 **KNUDSEN**
CATTLE

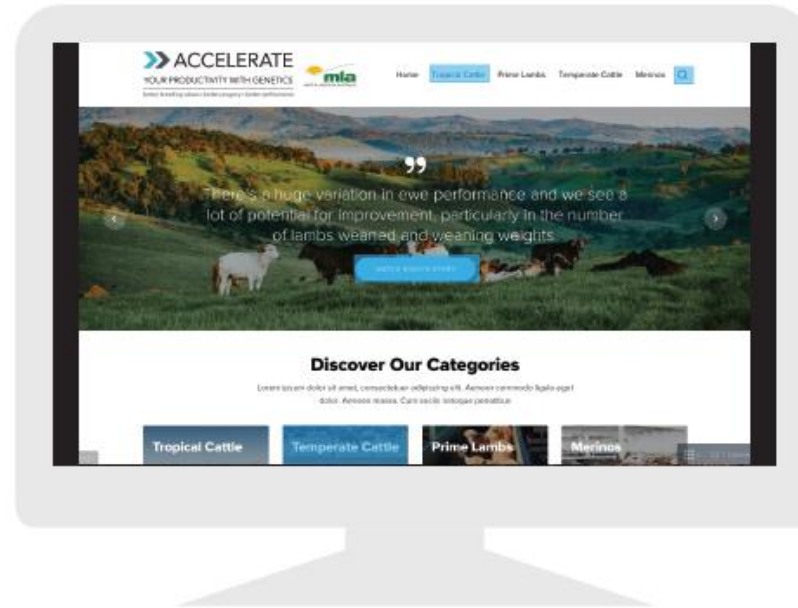


4. Next steps

4.1 The genetics one-stop-shop

4.2 Short courses and other resources

4.1 A new one-stop-genetics shop



4.2 Short courses and other resources

bred**well** fed**well**

mla.com.au/events

Breeding EDGE Workshop

mla.com.au/events



tbts.une.edu.au



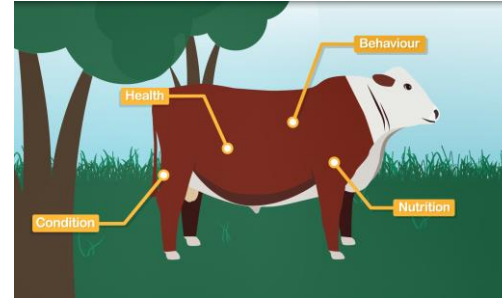
sbts.une.edu.au

5. Sneak peek

5.1 Selecting a high-performing sire

5.1 Selecting a high-performing sire

DATE	CATEGORY: KEEPER2										PT	WKS	GP	D1 AGE	D2 AGE
	DOB	EEV 200	EEV 400	EEV 600	EEV 80	EEV DTC	EEV 100	EEV 120	EEV 140	EEV 160					
24/07/13	14	17	24	12	-7.6	33	31	006-3770	006-3678	26	C2	3	2.8		
17/07/13	23	27	39	2.7	-4.9	39	36	006-3770	009-7617	26	C1	2.7	2.8		
22/07/13	16	19	33	0.6	-6.4	38	34	006-6039	006-8952				2.8		
18/07/13	17	21	28	2.1	-12.3	43	44	006-3770	07-4729	26	C1	2.9	2.8		
17/07/13	15	21	28	1.2	-5.4	33	29	006-3770	05-3285	24	C1	2.9	2.8		
16/07/13	16	20	31	0.6	-11.9	47	43	003-1716	10-8545	26	C2	2.8	2.8		
7/08/13	20	26	35	0.2	-6.5	38	34	10-8087	10-7696	22	C1	2.8	2.8		
12/07/13	21	24	33	2.3	-9.6	40	40	006-3770	00-7239	22	C2	2.4	2.4		
08/13	20	32	43	1.6	-5.6	37	33	006-3770	08-5533	24	C1	2.2	2.4		
08/13	22	25	43	3.9	-11.9	60	65	11-9017	11-9017						
08/13	16	21	32	3	-11.9	60	65	11-9017	11-9017						



Shopping List

PRIMARY SHORTLIST

Animal name / ID

SIRE A
M023

☐ BULL CHECK ☐ TEMPERAMENT ☐ STRUCTURE ☐ EDVs

SIRE B
M001

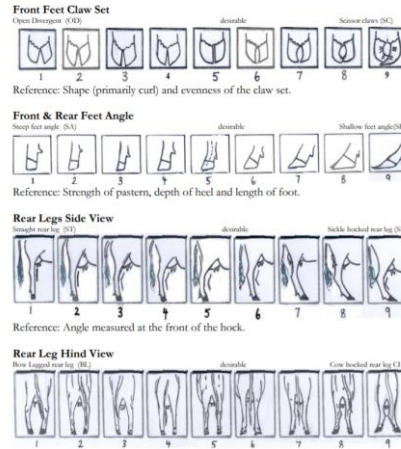
☐ BULL CHECK ☐ TEMPERAMENT ☐ STRUCTURE ☐ EDVs

SIRE C
M008

☐ BULL CHECK ☐ TEMPERAMENT ☐ STRUCTURE ☐ EDVs

SIRE D
M010

☐ BULL CHECK ☐ TEMPERAMENT ☐ STRUCTURE ☐ EDVs



DOCUMENTATION

- Brand** ✓
- Management tag** ✓
- Animal movement records**
LPA National Vendor Declaration ✓
- Other relevant information** ✓

5. Summary

Do your homework before going to the sale.

Breeding values: your tool for looking under the hood of your next sire

1. Breeding values help remove non-genetic factors that impact the way a bull looks on sale day.

2. Writing a breeding objective helps you work out which breeding values to use.

3. Do your homework before going to the sale.



ACCELERATE

YOUR PRODUCTIVITY WITH GENETICS

better breeding values > better progeny > better performance