Australian Dairy Herd Improvement Scheme

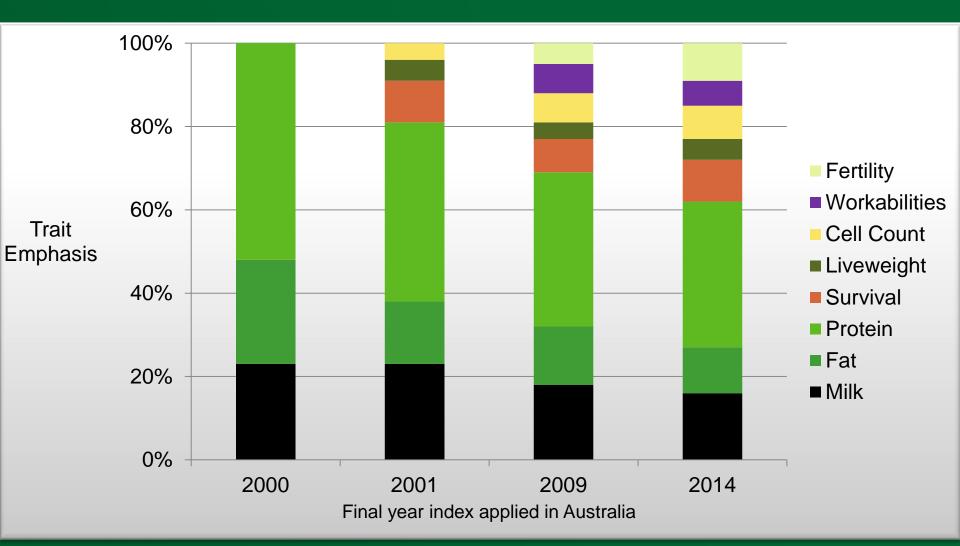
The story of Australia's new breeding indices

D.Abernethy, M.Axford, J.Pryce, G.Nieuwhof, Abacus Bio





Indices evolve over time

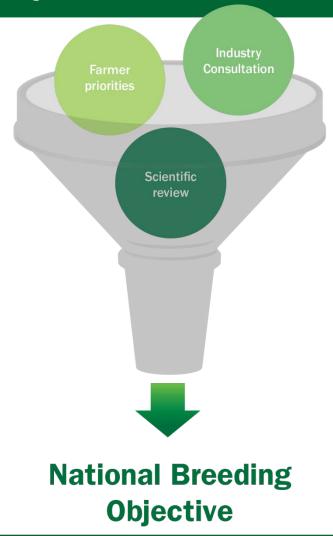




Current National Breeding Objective = Profit

The NBO review aims to

- 1) Is Profit still the focus
- 2) Produce an index (indices) that are based on sound scientific principles and is in line with overall objective and farmer preferences.





Farmer Input into NBO review



Farmwalk event

- 26 events on 46 farms throughout Australia
- >600 participants

National Breeding Objective Survey



1000 Minds™

- >600 farmer and service provider responses collected through;
 - Random phone calls
 - Volunteer participation







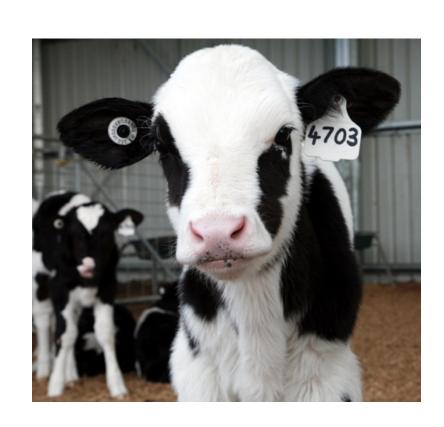


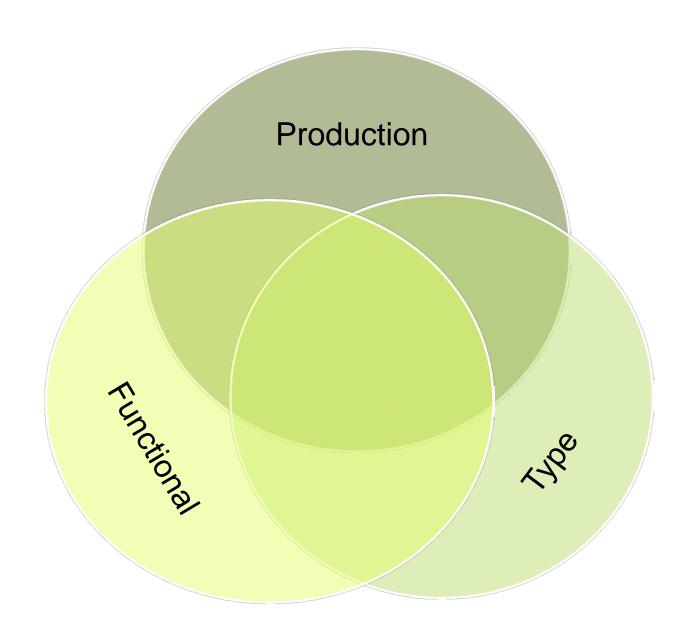


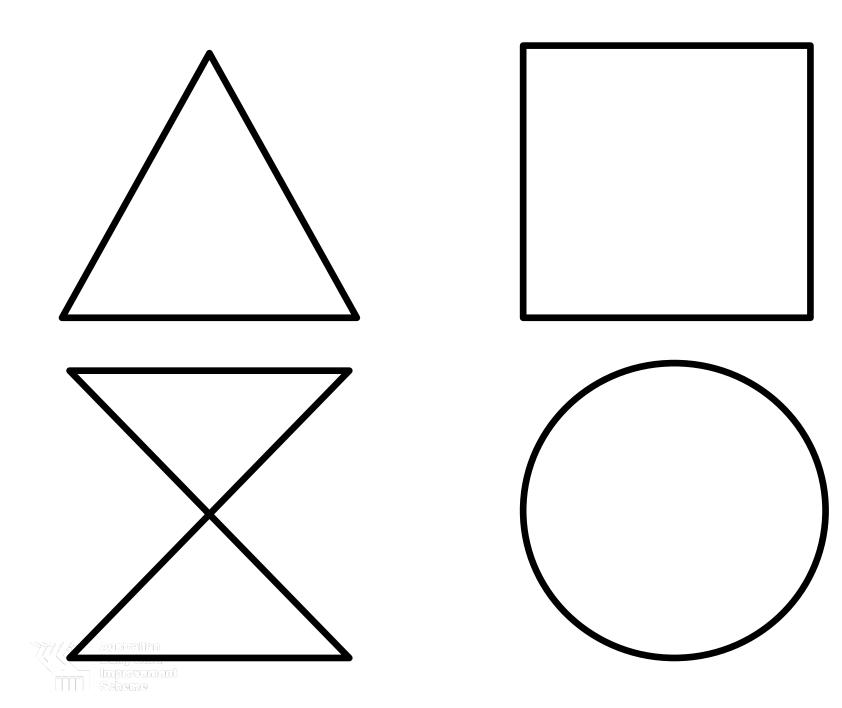
Mastitis 4.29 Lower number – Longevity 5.1 higher ranking by farmers Fertility 5.39 Udders 6.38 Lameness 6.49 Protein 6.91 Type 7.14 Feed Efficiency 7.26 Calving Difficulty 7.38 Temperament 7.81 Milking Speed 8.23 Late Lactation Yield 8.27 Live Weight 10.37

Key Outcomes from Survey

- Profit remains important
- Mastitis, longevity and fertility and protein rank highly
- Emphasis on improving confirmation (Type)
- Some differences seen in preferences







Introducing the New Indicies

Balanced Performance Index (BPI)

- Economic index
- Blends production, type and health traits for maximum profit
- In line with farmer preferences



Health Weighted Index (HWI)

Fast track fertility and mastitis resistance



Type Weighted Index (TWI)

Fast track type

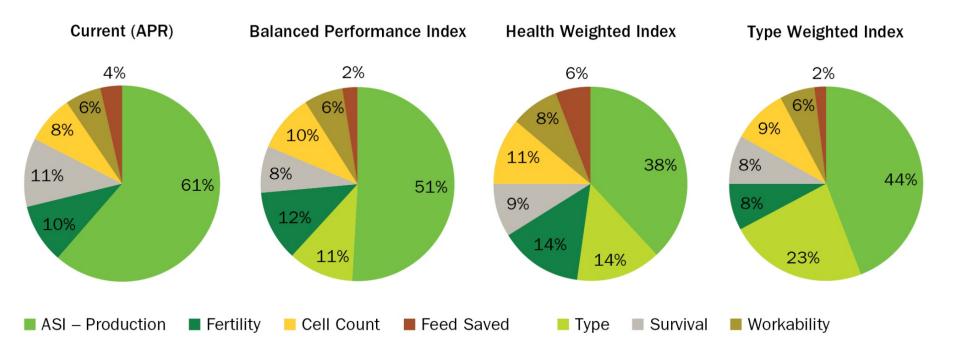


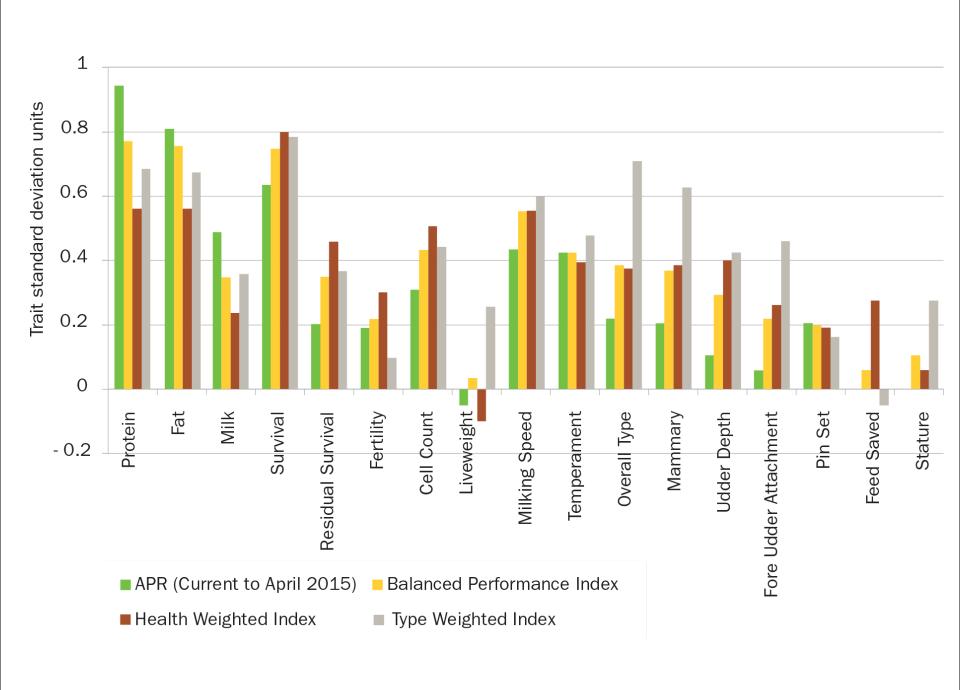


Economic values











Australian Indices. Tailor made for Australian farmers.

When breeding cows are you most interested in...

A balance of production, type and health traits to deliver maximum profit?

Your Index is...

Traits like fertility, mastitis resistance, feed saved and longevity?

Your Index is...

Overall type and mammary system?

Your Index is...

Balanced Performance Index

✓ Production

✓ Fertility

✓ Type

Health Weighted Index

√ Fertility

✓ Less Mastitis

✓ Improved Longevity

Type Weighted Index

✓ Overall type

✓ Improved udders

✓ Production

What's their real efficiency?



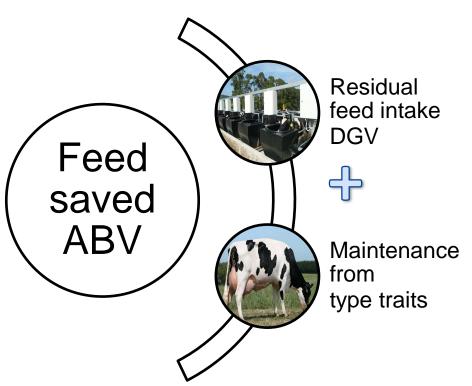


6890 litres/year 600 kg liveweight 20 kg DM/d of feed 6890 litres/year 600 kg liveweight 19 kg DM/d of feed

Cow B is more efficient than cow A 1 kg/d at \$0.3/kgDM is worth \$110/cow/year



Construction of Feed Saved ABV



 Holsteins – Residual Feed Intake plus maintenance

Other breeds – maintenance requirements

Example Feed Saved ABVs



Holstein RPI FEED SAVED		
TTOTSCCIII	BPI	FEED SAVED
BULL ID	BALANCED PERFORMANCE INDEX	FEED SAVED ABV
Α	336	- 43
В	320	- 147
С	302	- 4
D	301	110
E	285	2
F	282	- 6
G	277	72
Н	277	- 26
I	274	18
J	268	111
	\$ profit/cow/year	kg feed saved











Impact ads

Hearts and minds comms Invest in opinion leaders

Tools are cool

Working Together



ABVS DON'T BE NUTS GET INTO THEM!

BPI, TWI, HWI - THE ABC OF MORE BUCKS IN YOUR BANK

Faccae. Name perio doi uptio. Ita smincte inveliquo ersperibea volestion eat quam, voluptate minctesciet faccaec eaquatquam int explitium aspei idipsunti rectota ipid essimus id uita qui doi um explamut a et piaborum ilquam hic tem quo od quia sitate posae dissitas ut tacium vent vendam fuga. Nem archii moiessime voio doi ores doi um faccatur simasimo dis destium uta nis

Thank you

ADHIS Team

 Daniel Abernethy, Michelle Axford, Peter Williams, Sarah Saxton, Gert Nieuwhof, Kon Konstantinov, Tim Hancock

NBO Task Force

 Joanne Dickson, Graeme Gillan, Patrick Glass, Daryl Hoey, Mike Huth, Ray Kitchen, James Neal, Matthew Radford, Matthew Shaffer, Peter Thurn

Science Team

 Jennie Pryce & a team of 13 scientists from DEPI-V, AbacusBio and University of New England

Farmwalk Team

- The team of 26 families and 16 farm consultants who hosted Australia's Longest Farmwalk
- Dairy Australia Extension Co-ordinators

Resourced by

- Dairy Australia
- DEPI-V and Dairy Futures CRC

With support from

- Australian Dairy Farmers
- Regional Development Programs
- NHIA, breed societies, bull companies and resellers

With input from

- Australian Dairy Products Federation
- MLA
- Red Sky
- Dairy Farm Monitor Project
- 27 private consultants, veterinarians, nutritionists, herd improvement advisors and an epidemiologist



Industry Partners



Australian
Dairy Herd
Improvement
Scheme







