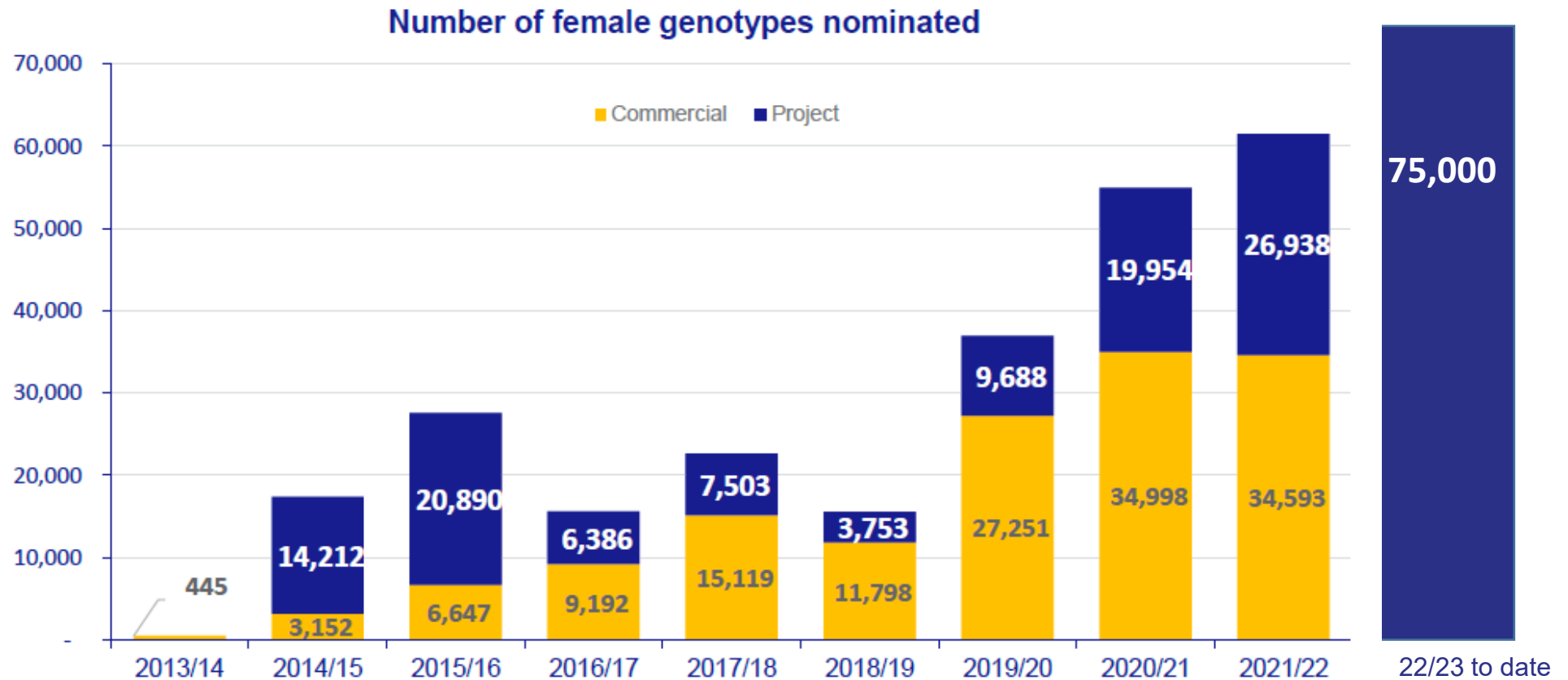


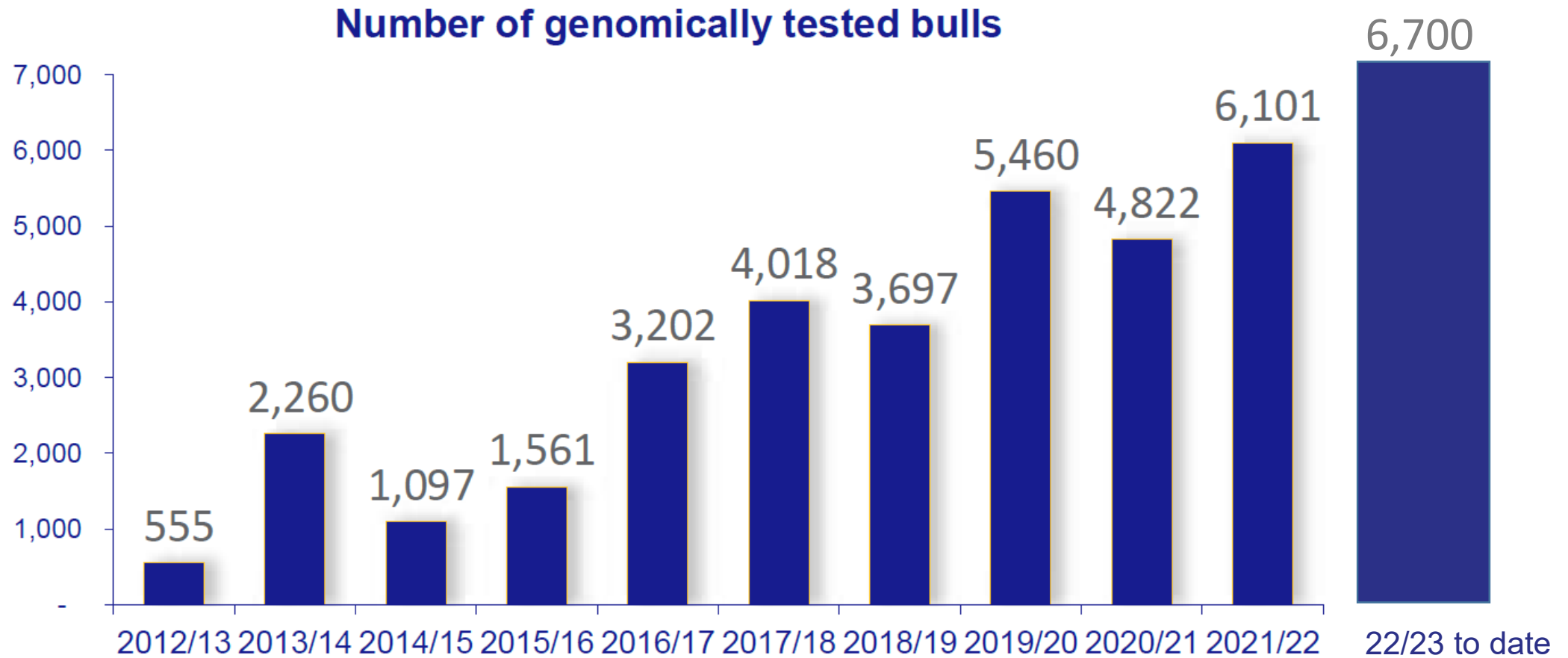


Accelerating Heifer Genomics

Metrics



Metrics



Accelerating heifer genomics

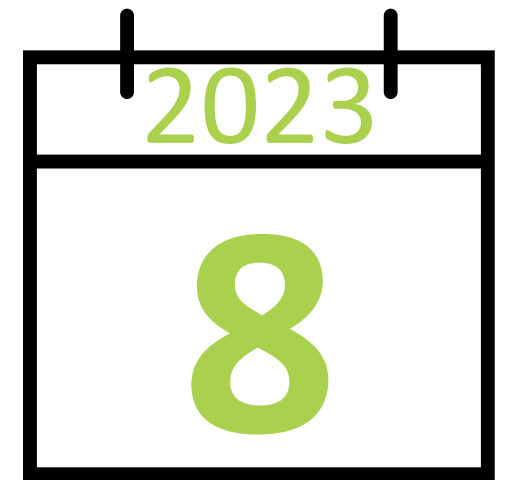
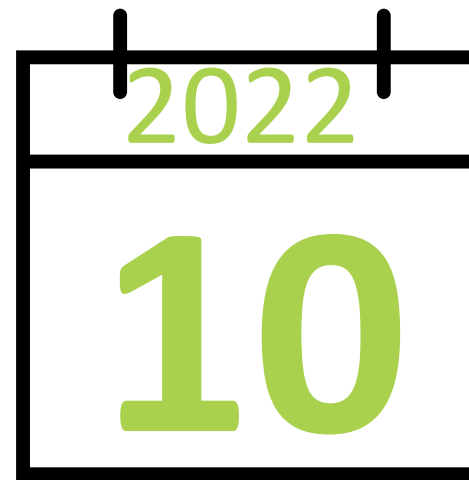
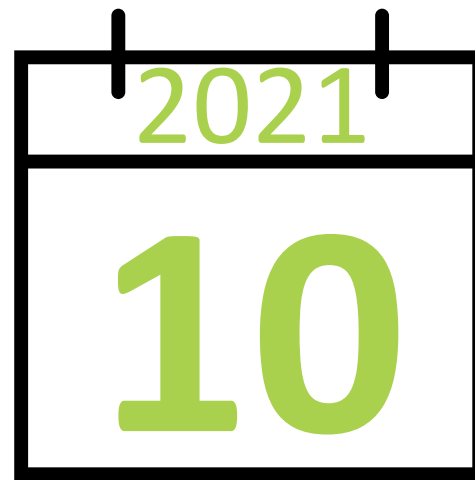
Faster results

Collaboration

Coms & extension



Average days between genotype loading and result delivery



Why don't animals receive results?

- 4% animals had an unresolved sire issue
- 2% animals had an unresolved dam issue
- 1% had an unknown breed

Dairy Australia animal husbandry genetics survey

2022 survey with 400 randomly selected participants

Aware genomics or genomic testing

93%

Currently genomically test heifer calves

17%

Not currently using genomically testing but have in the past

7%

Plan to genomically test heifer calves in the next 12 months

20%

Do not genomically test heifer calves and unlikely to do so

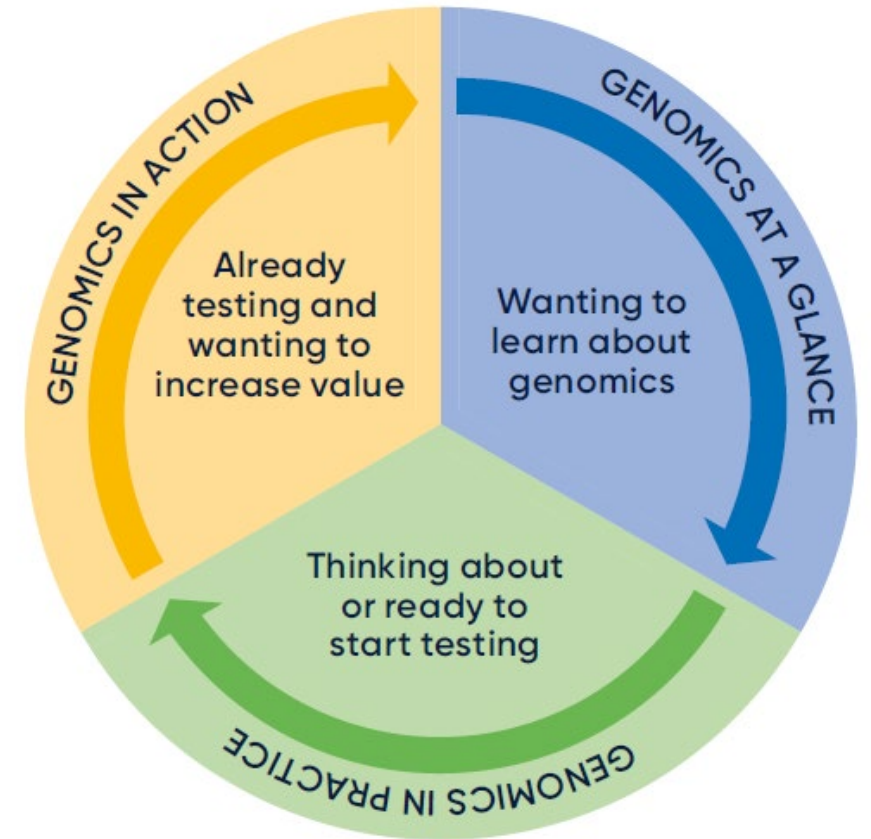
63%

Extension activities



Extension activities

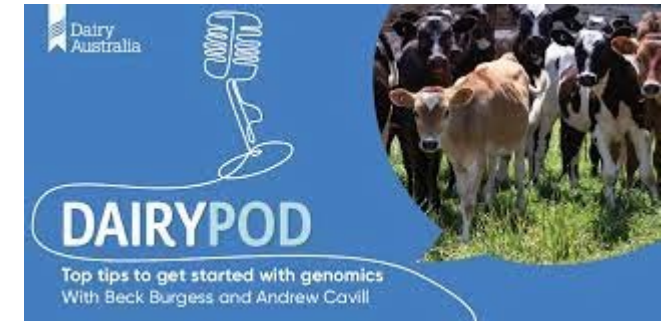
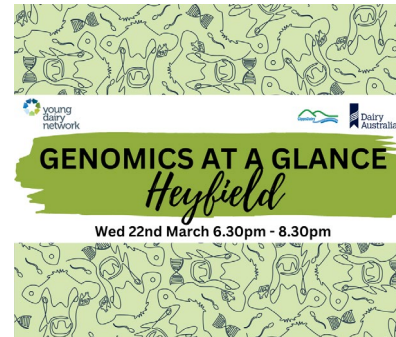
- 97% likely to take action (target >8)
- 9/10 would recommend to others
- *'We are seriously thinking about doing testing on our heifers'*
- *'I will be genomic testing my heifers as soon as possible to get the full advantage of it.'*



Make sure your customers don't miss out.

People, resources, support are available

- Rob Cooper
- Kristen Davis
- Debbie Twiss
- Shane Gardiner
- Peter Williams
- Peter Thurn





90,000

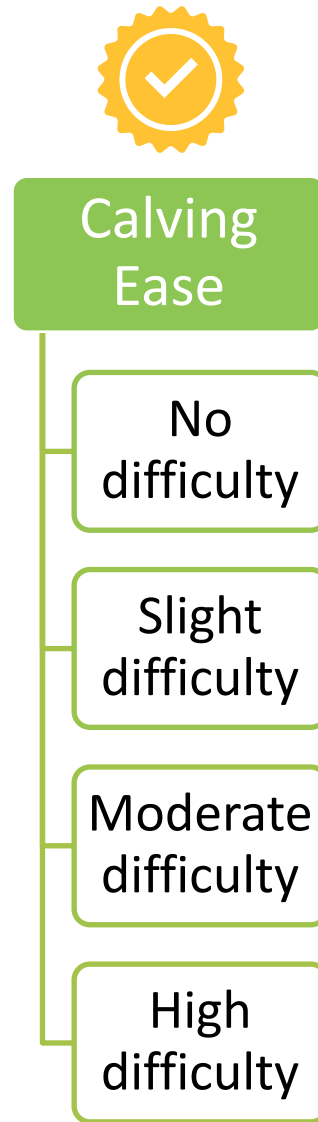
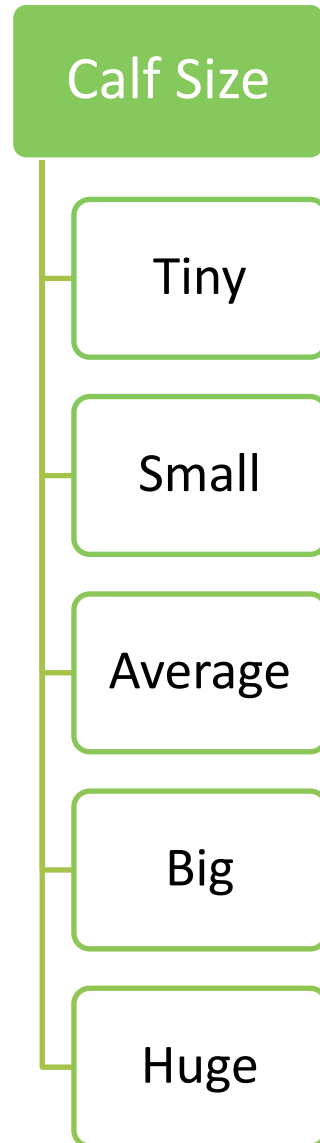
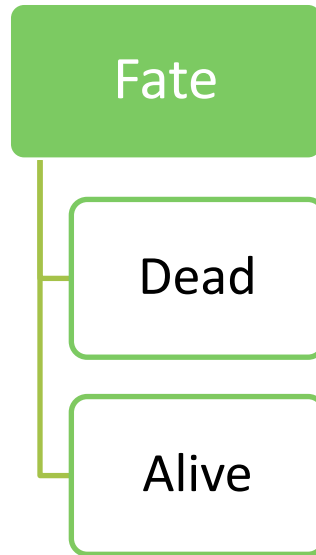


Stillbirth and pre-weaning mortality in Australian dairy cattle

M. M. Axford

M. Khansefid, M. Haile-Mariam, M. Goddard,
A. Chamberlain, J.E.Pryce,

Calf traits



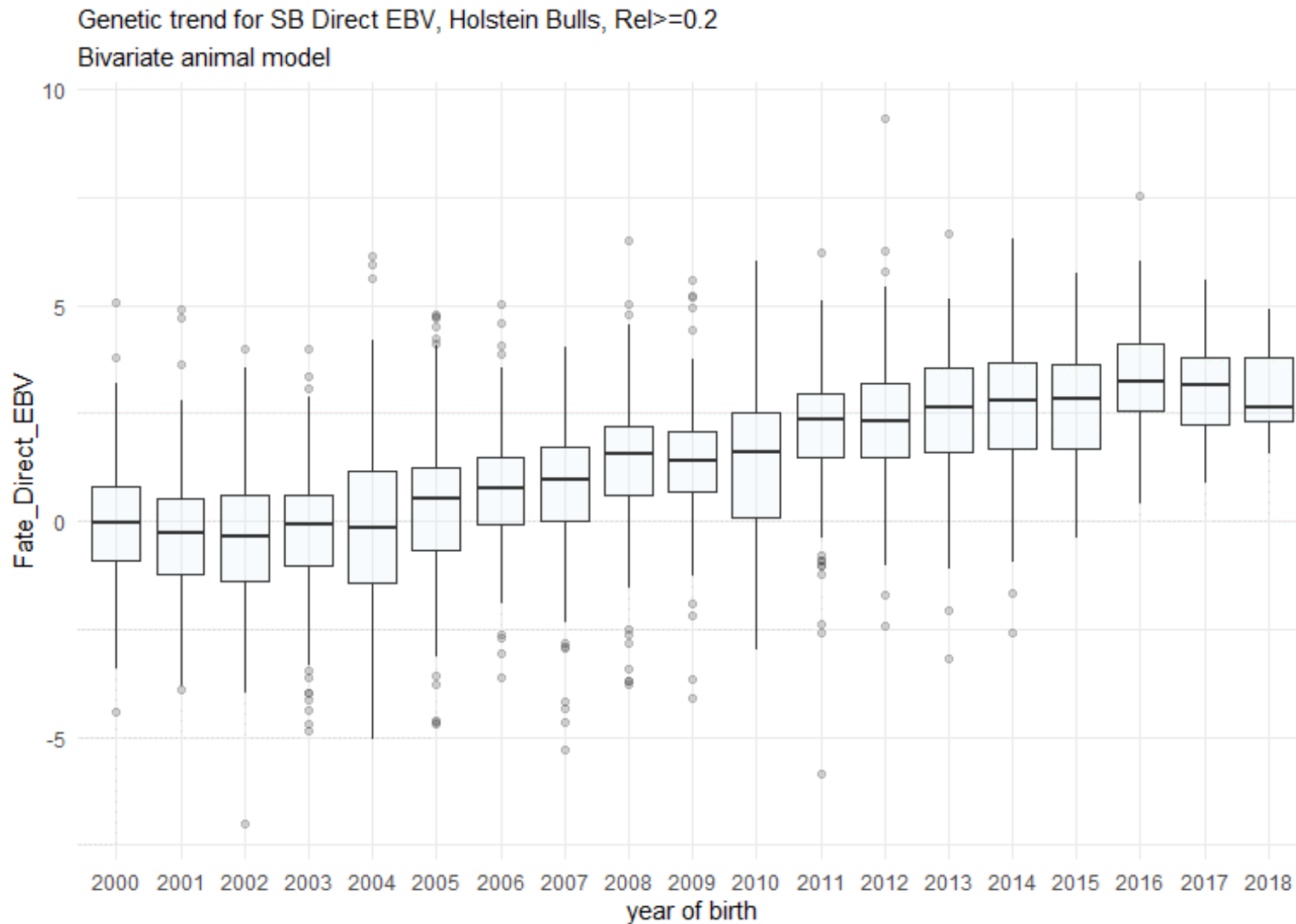


stillbirth maternal

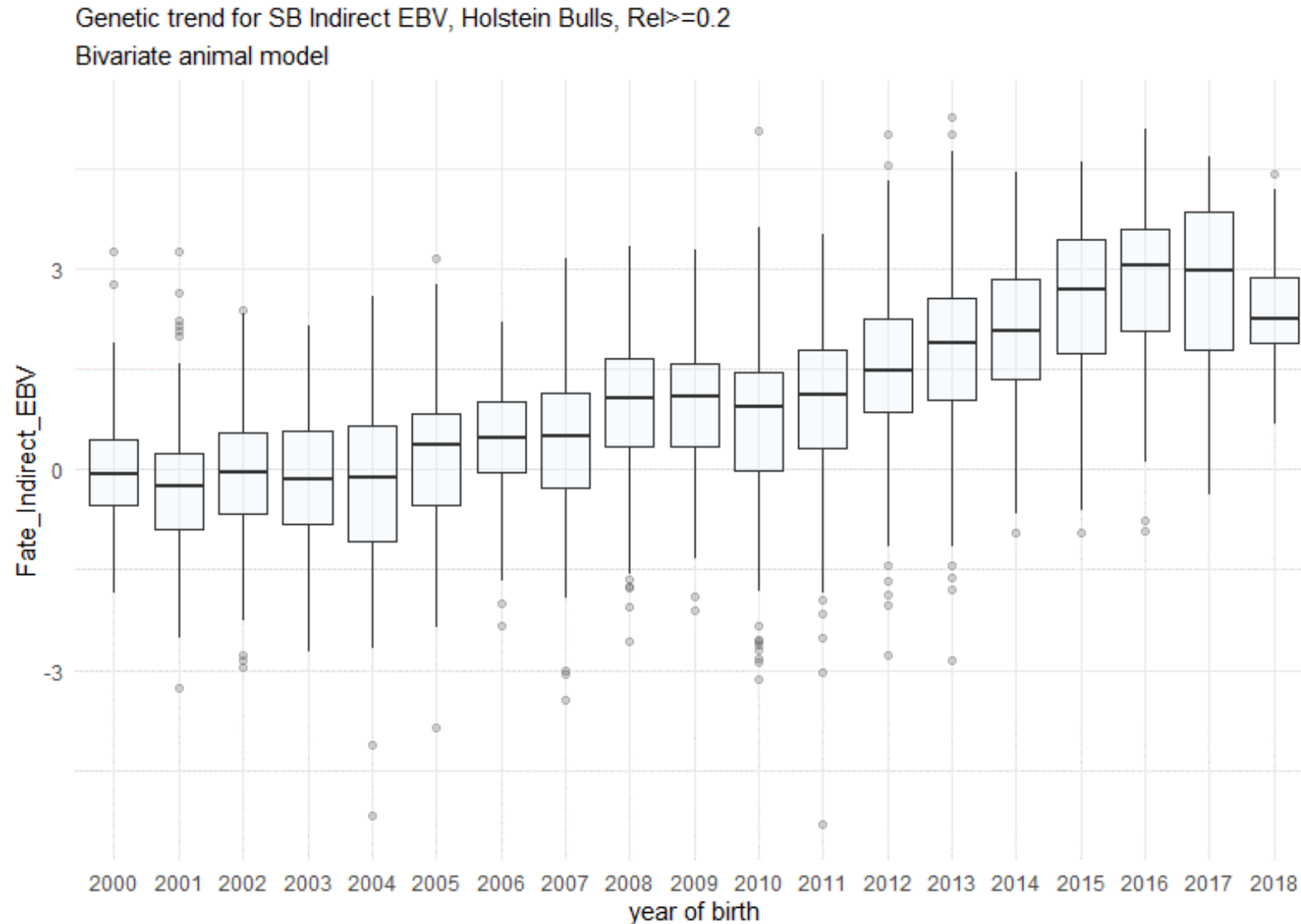
stillbirth direct

Pre-weaning
mortality

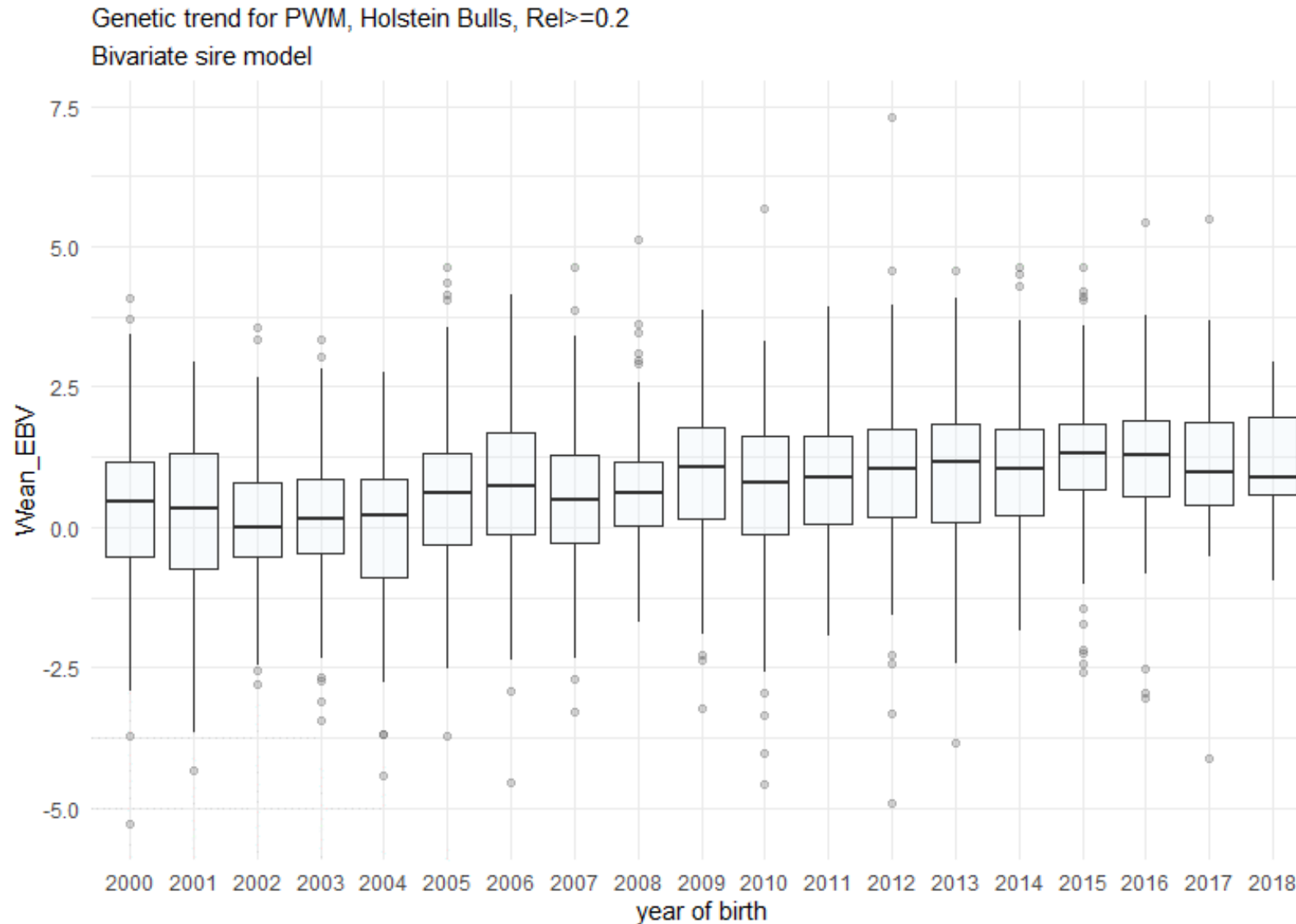
Genetic trend for Stillbirth Direct 2.5% improvement in 20 years



Genetic trend for Stillbirth Maternal ~3% improvement in 20 years



Genetic trend for Pre-weaning mortality ~0% improvement in 20 years



Bottom line

- There is genetic variation in calf health traits so we can breed for improved
 - Stillbirth direct
 - Stillbirth maternal
 - Pre-weaning mortality
- Validation, using gold standard Australian calf data, is the next step

Acknowledgments

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- Dr Amanda Chamberlain
- Dr Majid Khansefid
- Dr Mekonnen Haile-Mariam
- Prof Mike Goddard
- Dr Jo Newton

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- DairyBio
- DataGene
- Zoetis

