



R&D Snapshot

Faster genetic gain using genomic selection

Investigators: Dr Rob Banks and Dr Susanne Hermesch, Animal Breeding and Genetics Unit, University of New England

Purpose:

- To inform industry of the opportunities and challenges around using genomic selection technologies in the Australian pork industry

Take home messages:

Genomic selection in the Australian pork industry

- There is scope for improvement in rates of genetic progress in Australian pig populations however, implementing genomic selection will increase costs of a breeding program, mainly due to genotyping costs
- Genetic gain may increase by 10 to 50%, which could increase the annual genetic gain by \$0.25 to \$1.25 per pig, for superior breeding programs
- Further research is recommended for a pooled or industry approach to develop a reference population in order to exploit the power of genomic selection for the Australian pork industry

Additional information:

- For further information or a copy of the full report, please contact Dr Robyn Terry at robyn.terry@australianpork.com.au on 0427 423 869

APL Project 2015/064 – Development of an Industry Discussion Paper on Opportunities and Challenges around genomics, including genomic selection, for the Australian Pork Industry

