The effect of Piétrain sire on the performance of the progeny of two commercial dam breeds: an intervention study

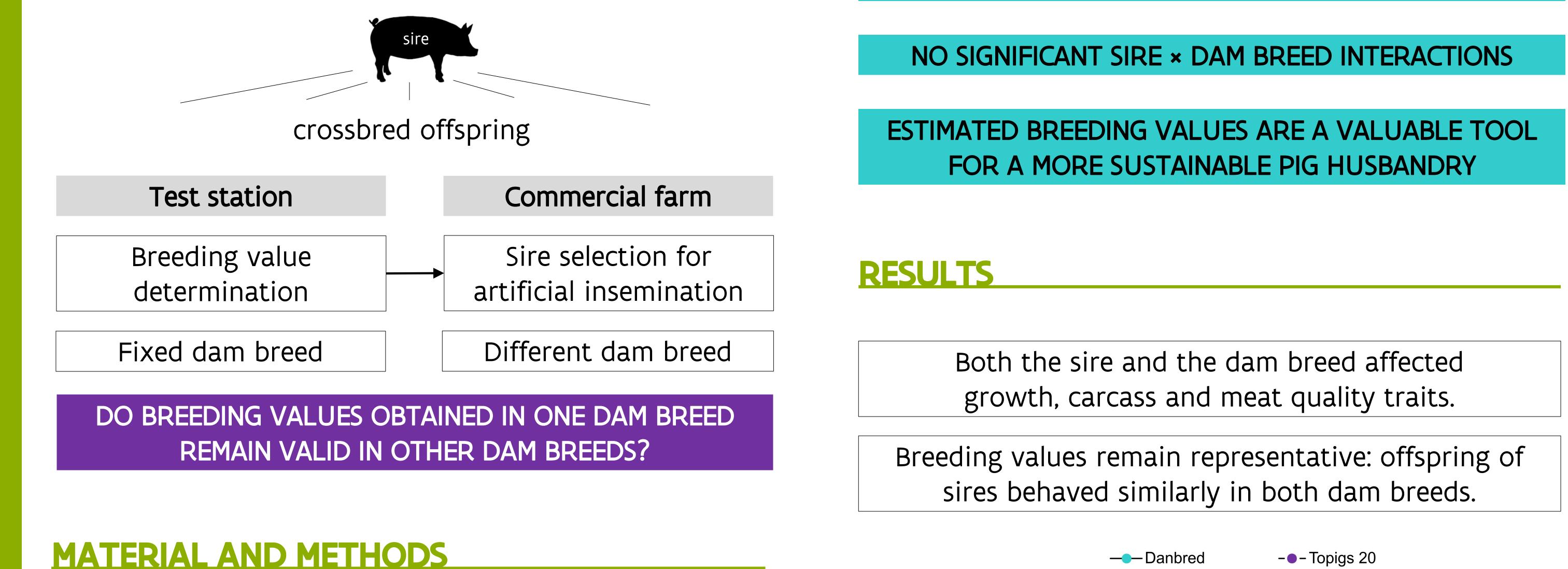
C. De Cuyper¹, S. Tanghe¹, S. Janssens², A. Van den Broeke¹, J. Van Meensel¹, M. Aluwé¹, B. Ampe¹, N. Buys², <u>S. Millet¹</u> ¹ILVO (Flanders Research Institute for Agriculture, Fisheries and Food), Scheldeweg 68, 9090 Melle, Belgium ²Livestock Genetics, Department Biosystems, KU Leuven, Kasteelpark Arenberg 30, 3001 Heverlee, Belgium

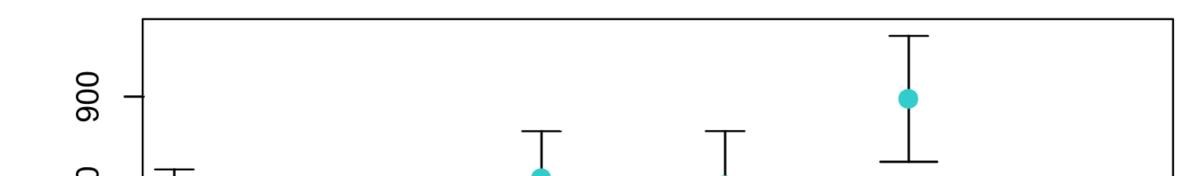
INTRODUCTION AND AIM

CONCLUSIONS

Genetic evaluation of Piétrain sires in Flanders

MAIN EFFECTS OF SIRE AND DAM BREED ARE MOST IMPORTANT





Animals

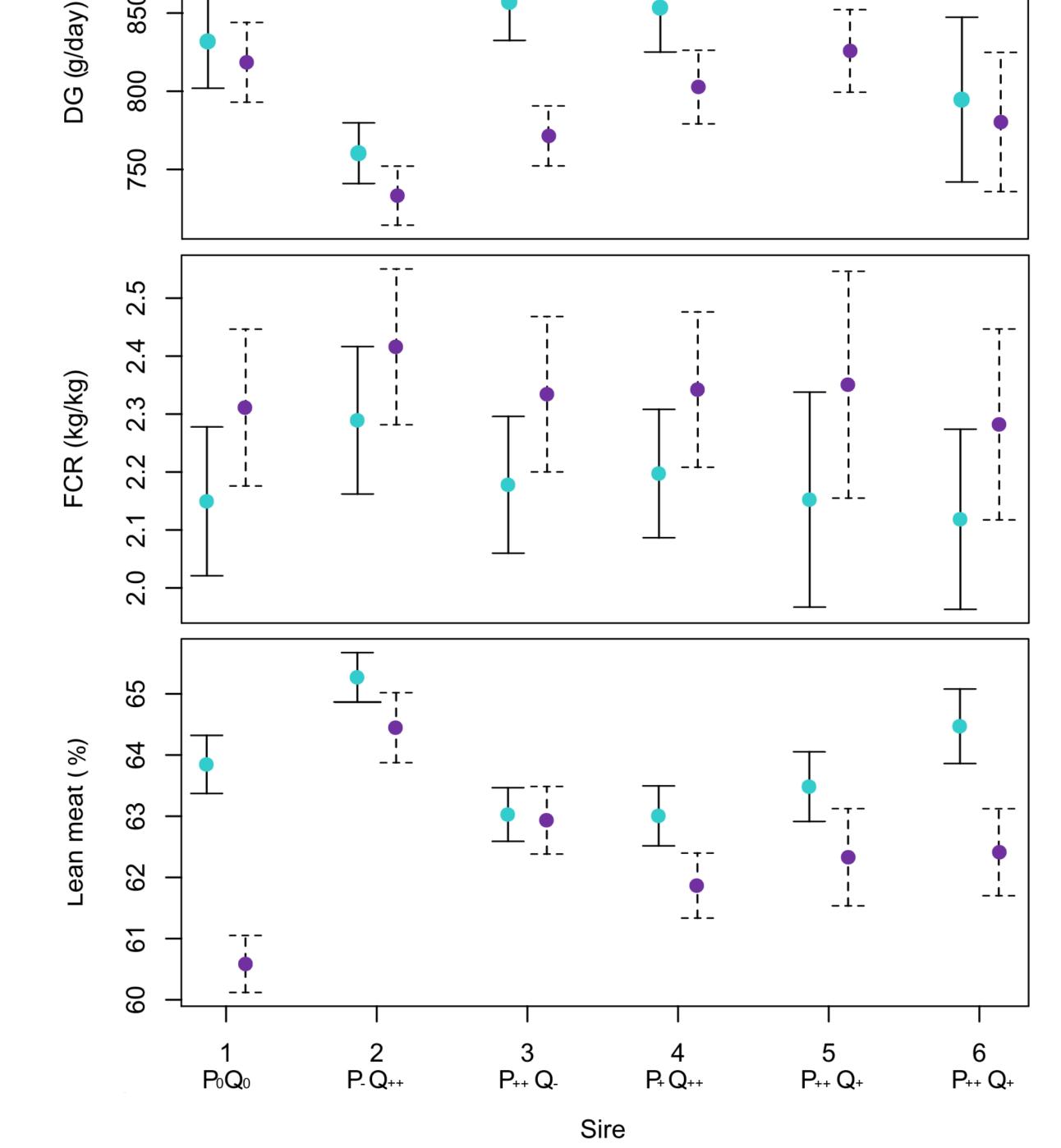
5 sires with contrasting breeding values for performance (P) and carcass quality (Q)

Table 1 Estimated breeding values for daily gain (DG), feed conversion ratio (FCR) and carcass quality (CQ) of selected Piétrain sires with corresponding code for growth performance (based on DG and FCR) and carcass quality, varying from poor (-), average (0), moderate (+) to good (++)

Sire	Code	DG (g/day)	FCR (g/kg)	CQ (points)	Accuracy	Index ¹
1	P_0Q_0	37	0	1.1	0.858	105.4
2	P_Q ₊₊	-42	81	28.8	0.856	116.6
3	$P_{++}Q_{-}$	117	-178	-10.5	0.840	123.8
4	P ₊ Q ₊₊	16	-55	18	0.848	125.5
5	P ₊₊ Q ₊	73	-103	1.9	0.863	121.7
6 ²	$P_{++}Q_{+}$	85	-165	0.6	0.848	128.8

¹According to the Flemish pig book (VVS, 2014) ²In the second round, sire 5 was replaced by sire 6

- 2 commercial dam breeds (Danbred and Topigs 20)
- *n* = 354 progeny (2 rounds)
- 6 full sibs (3 gilts + 3 barrows) per pen, 12 pens per sire



Measurements

Evaluation of growth performance, carcass and meat quality parameters of fattening pigs (20 – 114 kg).



Flanders

is agriculture and fisheries

VLAIO project IWT100871





Figure 1 Average daily gain (DG), feed conversion ratio (FCR) and lean meat percentage for the different sire by dam breed crossings. Bars represent standard errors (SE).