



***Genetics and productivity
- as means of reduce greenhouse gas
emissions in pig productions***

SUSTAINABILITY

Balanced pig breeding for improved global sustainability

Aiming to achieve genetic gain to produce more while using fewer resources is key to achieving a more sustainable production of pork in future, and contributing to this goal is a fundamental premise for DanBred's balanced pig breeding program.

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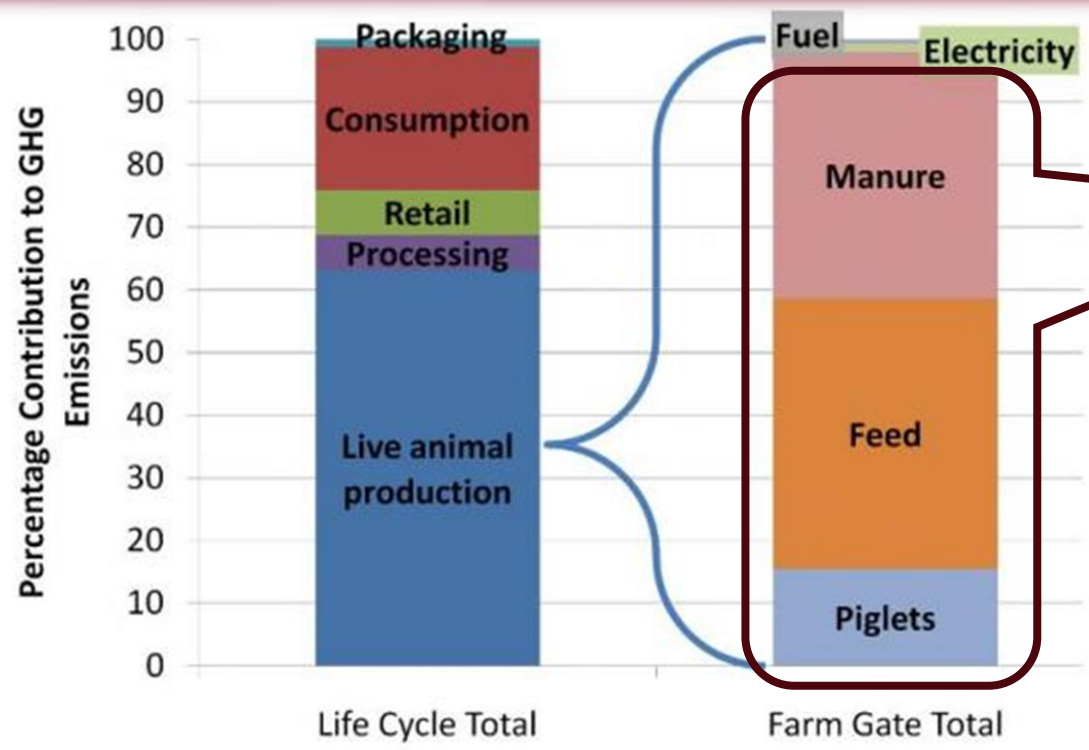
Genetic selection is a tool perfectly suited to improving sustainability. Firstly, because the key breeding goal of DanBred's breeding program is to produce more using fewer resources, and secondly because any genetic improvements made are cumulative and mostly permanent.

Given current growth rates of DanBred finishers, **each improvement of 0.1 kg feed/kg growth in feed conversion is estimated to reduce CO2 emissions by approximately 10 kg per pig.**

When litter size is increased, the number of sows needed to produce the same number of piglets is reduced. This reduces the need for sow feed, with effects similar to those described for feed conversion and growth.

Genetic selection for survival leads to similar benefits, as it also reduces the number of sows needed to produce the same number of piglets, while also reducing feed waste. **1% improvement on survival reduces CO2 emissions by 0.5 kg per pig.**

These are all examples of how DanBred indirectly selects for sustainability, and the efficiency and productivity of the DanBred Hybrid and DanBred Duroc are tangible testaments to the success of the DanBred breeding program.

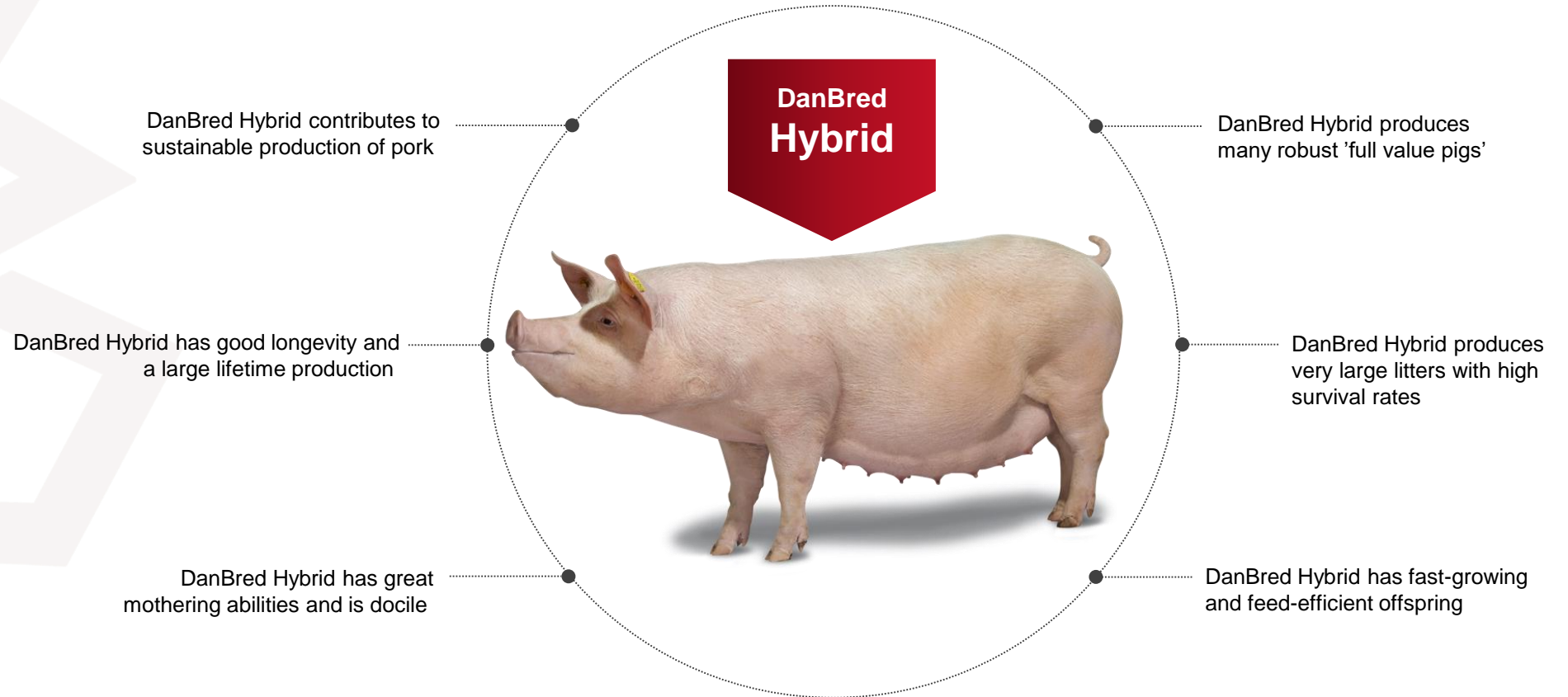


The part that's influenced directly through genetics and productivity

Figure 1. Relative contribution from different phases of the supply chain to the cumulative GHG

Picture source: lpeic.org

DanBred Hybrid. Prolific and productive optimal finishers



DanBred Landrace & Yorkshire Breeding Goal (2022-)

Productivity

Piglet and weaner growth

Finisher growth

Feed conversion

Killing out

Lean meat percentage

60%

Robustness

Piglet survival

Conformation

Longevity

34%

Reproduction

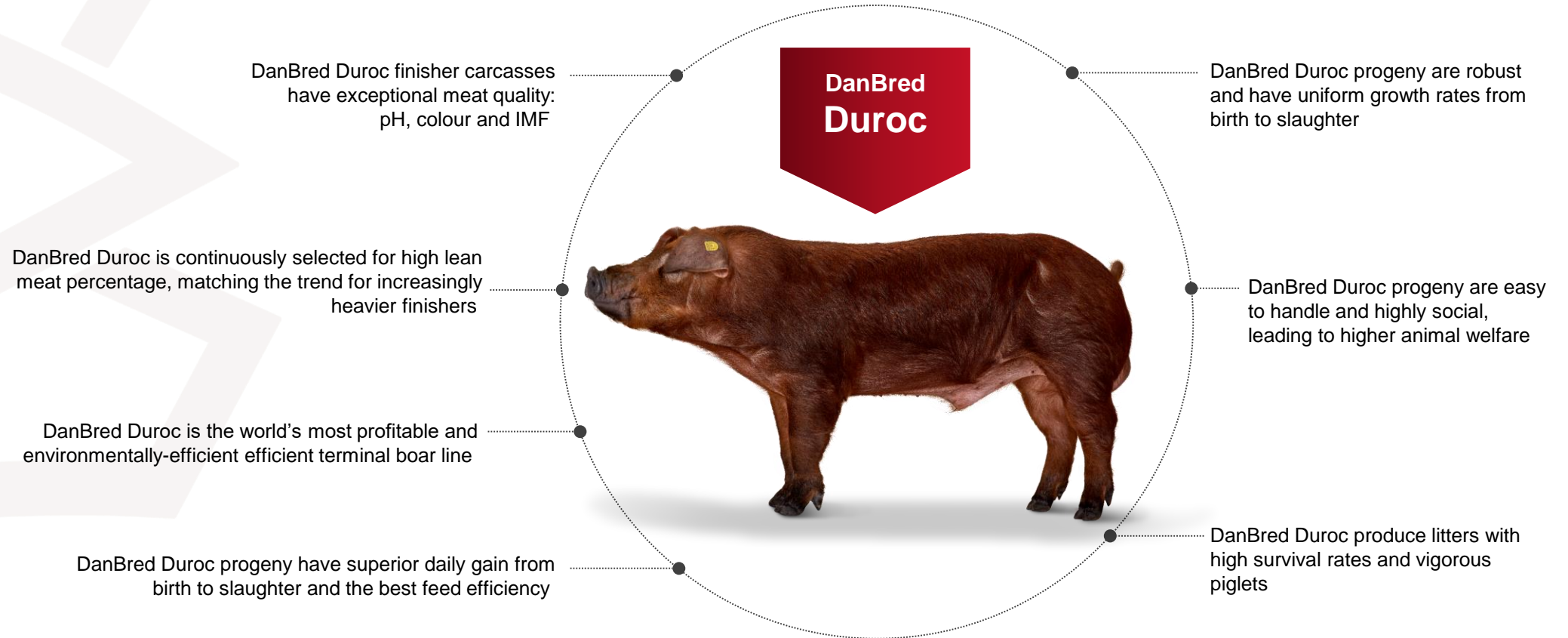
Litter size

6%



* Yellow markings have positive impact on GHG emmissions

DanBred Duroc. More pork for fewer costs



DanBred Duroc Breeding Goal (2022-)

Productivity

Piglet and weaner growth

Finisher growth

Feed conversion

Killing out

Lean meat percentage

79%

Robustness

Piglet survival

Conformation

20%

Reproduction

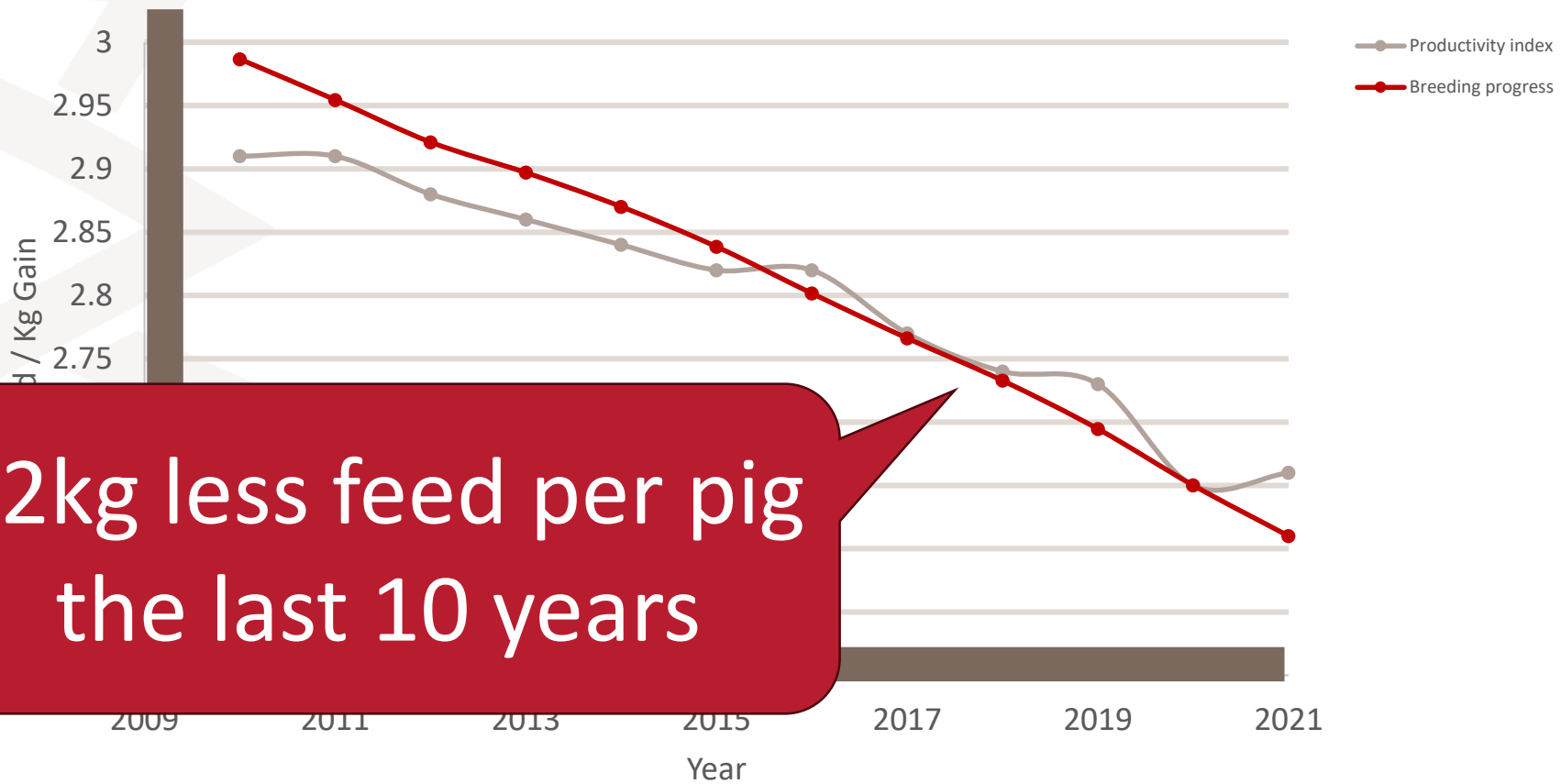
Litter size

1%



* Yellow markings have positive impact on GHG emmisions

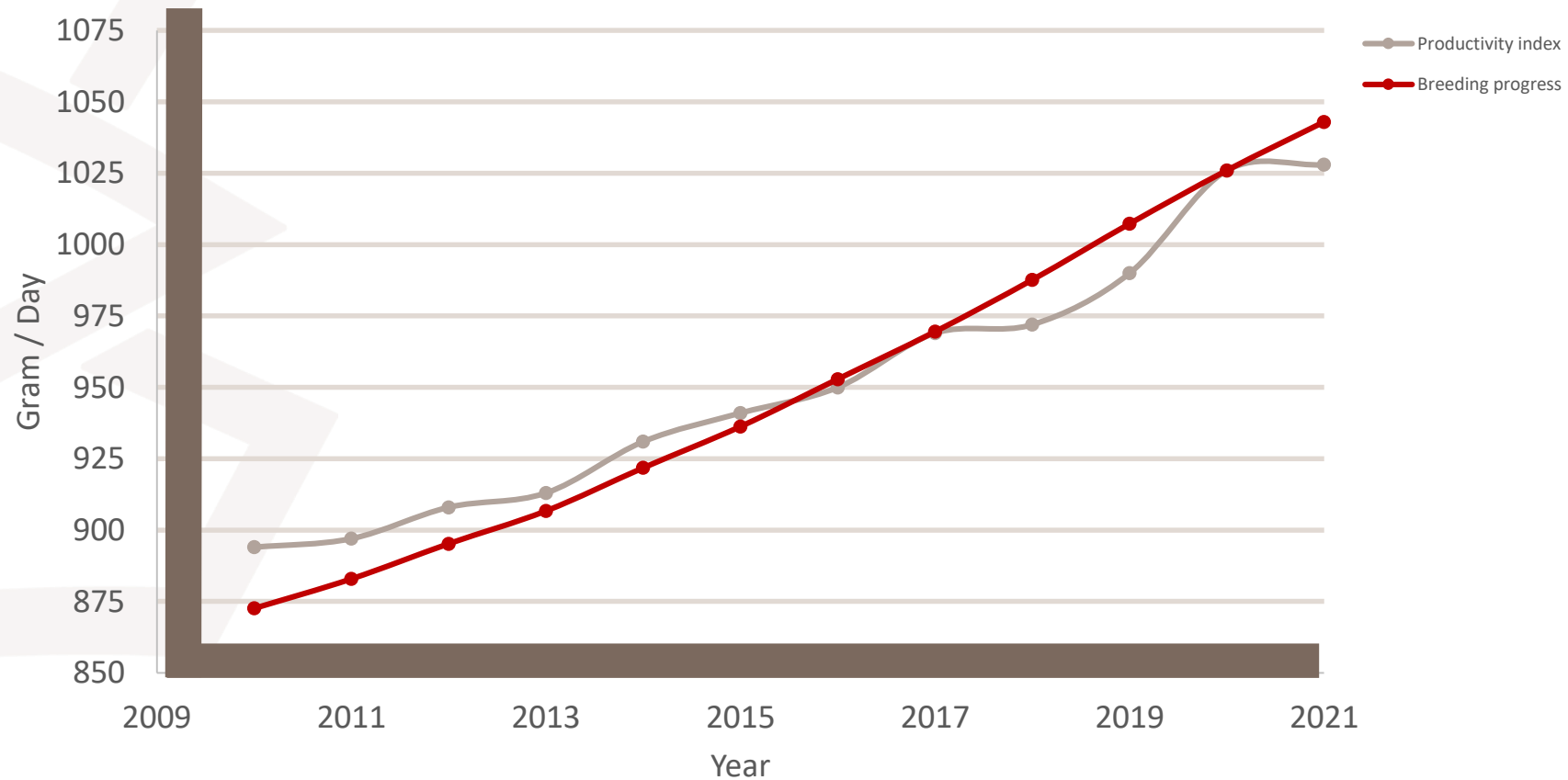
Feed Conversion Ratio (FCR), 30-115 kg



22kg less feed per pig
the last 10 years



Documented Results. Average Daily Gain, 30 kg - slaughter





Global reach
Leverage the DanBred potential anywhere