

# The 100% French swine selection

For several years, Nucléus has been committed to an intense selection programme in order to satisfy all sections of the pig industry. The company shareholders (two French cooperatives: Cooperl and Fipso) are totally involved in pig slaughtering and in meat processing activities, which is why Nucléus have focused a significant part of their breeding goals on carcase yields and meat quality.

[nucleus-sa.com](http://nucleus-sa.com)

Nucléus has over 30 years' experience in genetic improvement and is the number one in France. The company works to provide added value for all members of the pig chain, including pig producers, slaughterhouses, and meat processors. Four breeds are selected: Large White by Nucléus, Landrace by Nucléus, Piétrain by Nucléus and Duroc by Nucléus with a high focus on the creation of genetic progress.

To reach this goal, Nucléus with its shareholders have invested in large GGP populations (more than 4,000 GGP sows in female line population and more than 1,000 GGP sows in sire line population), have secured the sanitary and biosecurity of the farms by the air filtration system, have developed different genomic tools and lastly have made a great investment in its information system to collect and analyse big quantities of data.

Their information system combines collaboration with IFIP (French Technical Institute in pig production) and INRA (French

National Research Institute in Agronomic Research) and development of their own different applications: Smart Sow and Smart Pig to ensure the traceability of the information with data stored in the Cloud – Deltapig for the specific genetic work.

Based on the sharing of information, they have also developed specific research programmes on animal welfare, on the feed efficiency in relation to the microbiota, on the analysis of different biomarkers, their database is strong and robust, fed by data coming from farms (selection, multiplication, production), testing station, slaughterhouses and the processing industry.

Their core business is to link all this data in a zootechnical and genetic model to ensure genetic progress.

Working with Nucleus allows you to have access to pure breed animals coming from their top herds, to have access to fresh and frozen semen, and to share methods and data in order to benchmark the performances of different farms and crossings.

In 2020, 30% of the pure breed animals imported in China were coming from their pure breed populations, meaning that Nucléus have the capacity to provide large quantities of animals for the population of new farms.

In 2020, they exported frozen semen to different destinations (Asia, China, South America) and this activity is in continuous growth.

In this way, they can extend their exportation of animals and maintain the health and genetic progress in a GGP farm far away from France.

Working with Nucleus is entering into a community of different solutions – a world of solutions.

