

What's new at



EDITO

Fabien COISNE
CEO

*In the particular context of the sanitary and economic crisis of this year 2020, HYCOLE still continuing its development, both nationally and internationally, **with strong growth in our market shares in France and Italy and in Russia** where the largest breeding farm in the country has joined us to continue its own development, but also in many new countries wishing to develop meat rabbit production.*

I thank all our current and future customers, our loyal partners and all of our employees who have demonstrated exemplary dedication and professionalism.

As you can see from the following, we have continued our selection work with our partner Axiom within the framework of the GIS, with the VKE program in Hungary for genomic research of resistance to enterocolitis and with our internal teams with the goal that our breeders always better meet your expectations of economic performance, less medication, animal welfare and ease of management.

*The final objective: **to make you proud and happy of your job.***

*We have made internal investments in the structures necessary to continue our development for the years to come: Setup of a **new breeding in Hungary** for our male lines; **A females training** new building is planned for the beginning of the year 2021; **Equipment renewal for breeders** in our **breeding center** in Ribécourt-la-Tour.*

*We have also strengthened our team with the arrival of: **Frédéric Moumaneix** as Operation Manager and who will take over from me when I will leave. He will continue, I am sure, to carry with force the values of work, honesty and humility which have always been mine in the management of a company that manages life. **Elise-Marie Herbert** to manage HR and Export Sales Administration. **Vincent Dupont** as Production Manager.*

As you can see, we still believing in our business and our industry since our investment is permanent. In the years to come, you will always find us at your side to support you in the necessary changes in our profession.

Together we will win.

Happy new year to everyone.



January 2021



Genetic news

HYCOLE CONTINUES ITS DIVE INTO NEW TECHNOLOGIES

The genomic tool for resistance to EEL The VKE project



Two years ago, we presented the VKE project created in collaboration with Hungarian partners. The aim of this project is to **identify genes influencing resistance to EEL.**

The year 2019 and part of the year 2020, saw the second phase of the project come true: the breeding and phenotyping of almost 1,500 young rabbits of the white male line.

These phenotyping made it possible to determine areas of interest in the genome linked to resistance to EEL.

The project is ongoing and is currently challenging large groups of animals again in order to amplify and more precisely sequence these areas of interest. Hycole has sent more than 700 animals to continue in the progress of this project.

GIS Nord Sélection Pooling for more selection power

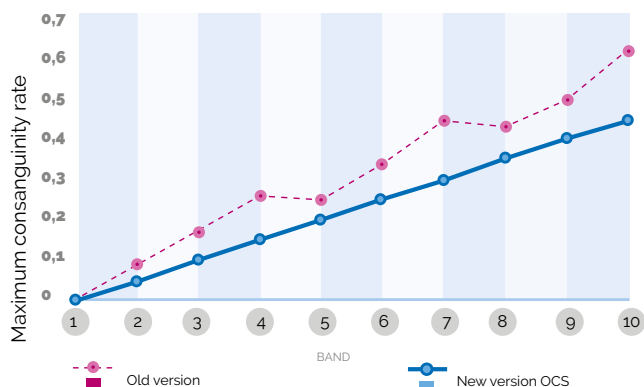


The Nord Selection Scientific Interest Group (GIS), created in 2015 in partnership with the pig breeding company Axiom, has brought together the R&D interests of the two companies and create new powerful tools, such as OCS (Optimum Contribution Selection).

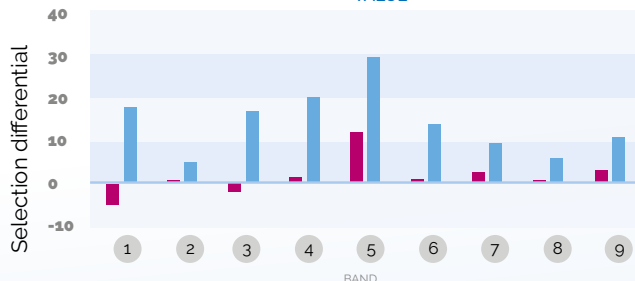
On the strength of this first project, the GIS is now embarking on the creation of software for **the automatic analysis of ultrasound images.** Our objective is to have a suitable and powerful tool for both types of animals which will open up new prospects for selection on carcass criteria, such as yield, but also intramuscular fat.



EVOLUTION OF THE CONSANGUINITY ON 10 BANDS



SELECTION DIFFERENTIAL IN POINTS OF GENETIC VALUE



OCS, an innovative tool

This work, carried out with the University Edinburgh Professor, Pong-Wong, is innovative because it first all makes **it possible to manage consanguinity continuously** and no longer afterwards but also and above all, to manage it **at the same time** that the genetic gain brought by each animal in a population! This tool will therefore be used to improve the annual genetic progress of our populations and thus **improve the farm productivity** using our genetics.

The OCS is therefore the first project of GIS Nord Selection and represents more than 3 years of work!



Europe

IN EUROPE, FOUNDATIONS ARE STRONG

Development in Hungary Hycole continues to invest!



We announced you last year a production potential increase for the **GP females** for the Italian market at our Hungarian sites. This year, we are continuing to develop our Hungarian center by **duplicating the White Male and GPC Male lines**.

A new building with 240 females of the White Male line and 220 of the C line was thus finalized at the start of 2020, in order to secure these lines which had until then only been present in our French center.

As with the D line, already present for more than 15 years in this subsidiary, these populations are totally linked to the French populations and managed by Hycole in France.



This development will massively **increase the number of performances obtained yearly and to give Hycole an even stronger power of selection on his male lines**.

In addition, the proximity between this new center and the slaughterhouse will make it possible to directly validate the results obtained on slaughter yield and notions of carcass qualities

In Italy, growth is continuing



Hycole hardly invests with its customers to improve production premises both by the building of new houses and in the new equipment setup to improve the environmental conditions or meet objectives animal welfare.

At the same time, 2020 confirms our position on the market and the recognition of the genetic and sanitary quality of our breeders with a 45% increase in breeding animals delivered over the first 3 quarters of the year compared to 2019.

Since now more than 30 years, our investments and works in Research and Development have enabled the HYCOLE female® to continue her genetic evolution and perfectly meet today's production goals.

Selection is a long-term work that does not allow to always change to get better but to go deeper in order to do better.

The same goes for our male lines, whose semen volumes sold have **increased by 53% with excellent results in terms of fertility, growth and yield.**

We take advantage of this newsletter to thank the many customers and partners who have chosen to work with us in 2020 and in particular **Mr Da Rios** who testifies below to the ease of management of our female and his satisfaction in using our genetics.

F.BERNINI CARRI, Head of Italian market



I started in rabbit meat production in 2019, when I took over a breeding that has closed. After doing the arrangement and passing the cages in welfare type WRSA, I chose to start with HYCOLE with 1,300 females in a single band at 49 days. I am happy with my choice and our efficient and constructive collaboration.
Mr. Da Rios, breeder in Veneto, Italy.



HYCOLE would like to thank Filippo, who takes care to his customers in Italy.

To support us in our development, Filippo has agreed to extend his expertise, in partnership with Elise, on the Spanish market pending the very imminent arrival of a **veterinary technical manager** to help him in the following of our customers.



USA



ULTRAMAR



International

A YEAR 2020 WHICH CONFIRMS HYCOLE'S INTERNATIONAL STATUS



CHINA



Hycole continues its expansion in the East

The largest Russian breeding trust Hycole for its development. More than 7,000 breeders including 2,200 GP left France during 4 weeks of deliveries, with the objective of putting into production the 14 houses of 1,000 females each.



MALAYSIA



Travel diary: Hycole on all continents

This year, HYCOLE has signed up an exclusive partnership and distribution contract with GOOD TREE GARDEN in **Malaysia**. Ideally based in South Asia and very close to the Philippines, the market is growing in these countries where rabbits offer a very interesting alternative to traditional meats.

Morocco is still loyal to us and despite the sanitary context, Hycole has been able to deliver to North Africa this year.

Let's go to the West, **Guadeloupe** and **Martinique** have also been able to benefit from the perseverance of our teams to be delivered this year.

Which brings us to the Americas and particularly the **United States** where Hycole rabbits now breed in **Texas!**

RINE

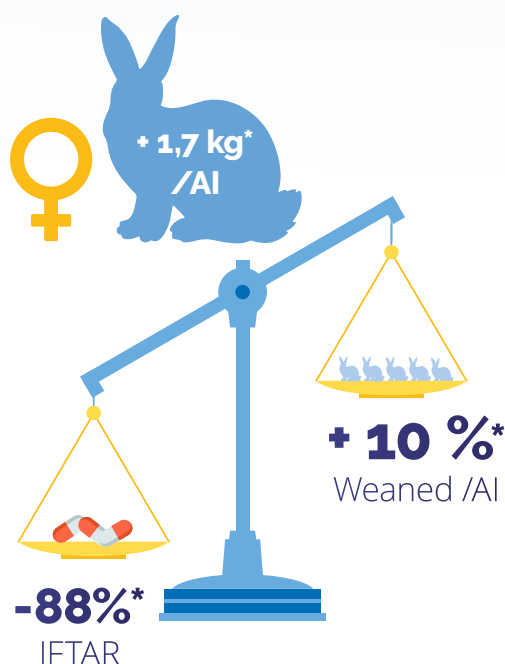
In France

CONFIDENCE IS STILL THERE

Remember during our *What's new at Hycole* 2020, we put forward the testimony of Sudrat, breeders who made the choice in early 2019 to change genetics for Hycole. A very good start of the GP kernel already allowed them to **regain confidence**.

Together, we set clear objectives and accurate and it is with pleasure and pride that they return to share the results and findings of their 1st year of production 100% genetic Hycole. The fundamentals of our genetics are clearly present through the numbers and their testimony. I'll let you discover all of this with them. Happy reading and good thinking.

L.HARDOIN, Head of France.



Gwenaël and Michèle SUDRAT 2 years already, "the female Hycole does not cheat!"

If we were to take stock of this year 2020, we would say it is very positive in many ways. We have improved all of our reproduction criteria, particularly the fertility of females in second AI.

Today we are very serene on AI days because we always have the right number of females to present. We have even reduced our number of AIs thanks to the regularity of our fertility and a very low female mortality.

Our reform criteria are now mainly technical. The progress in fattening is perhaps less telling but this will be our main focus of work for 2021. It is extremely encouraging to be able to set clear progress objectives thanks to the stability of our maternity.

To conclude, the HYCOLE female does not cheat. By respecting its needs, it offers you all its potential.

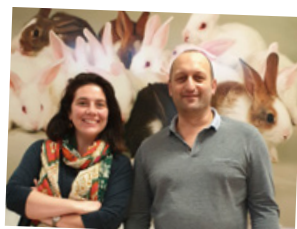
Arrivals

Frédéric MOUMANEIX

Frédéric is an agro engineer. He has a solid experience in breeding and also knows selection, for which he worked in broilers during his previous international experiences.

Elise-Marie HERBET and Vincent DUPONT

New girl and most experienced guy. Elise-Marie and Vincent form the new HR / Export and Production duo. Vincent will be celebrating his 24th birthday at Hycole this year.



I would like to thank Fabien for what he created and which he transmits to me in order to continue the Hycole development. By choosing your future, we are at the service of your success. I will be happy to meet you.

THE HYCOLE GENETICS IN 2019

	HYCOLE Farmers	«CLUB des 8»	Renaceb ⁽²⁾ (ITAVI)
Number of breeders	155	23	556
Number of AI	884 017	122 376	2 961 126
Does mortality (%)	2,9%	2,1%	3,6%
Birth rate (%)	84,7%	89,4%	83,5%
Number of born alive / Birth	10,22	10,78	10,12
Number of weaned / Birth	8,69	9,32	8,61
Number of weaned / AI	7,38	8,34	7,20
IFTAREpro <small>Antibiotics Use Index for Breeders</small>	0,41	0,33	0,51
Fattening mortality (%)	6,47%	4,69%	8,60%
Weight at 73 days (kg) ⁽¹⁾	2,51	2,56	2,46
Number of Kg produced / AI	17,26	20,27	16,19
Feed Conversion ratio	3,27	3,10	3,30
IFTACroissance <small>Antibiotics Use Index for Fattening</small>	0,21	0,16	0,23

(1) Weight at fixed age of 73 days, using after 70 days an ADG of 38gr to compare the performances

(2) Results of the French farms that use technical management

We communicate you the results of the "Club des 8" breeders (higher than 8 rabbits weaned / AI) because they reflect the potential of the HYCOLE genetics.



Select your future

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