



GenoCells: Control the quality of your milk and your replacements thanks to genomics


Jean-Bernard DAVIERE

Research & Development Manager

Pierre Lenormand

Research and Development Ingeneer





GenoCells®
determine with high
reliability the somatic
cells count from the
DNA analysis of a
sample of milk
mixture

ALL +

 **Peace of mind & control of the situation**


You have regular monitoring of the cell count of all your cows, you do your sampling whenever you want and at the frequency you want

 **Simple & practical**

A simple sample of bulk tank milk for all your milking cows, taken directly from your farm by a haulier

 **Cost effective & hence profitable**

On the quality of your milk : thanks to better anticipation and reactivity on the monitoring of cellular levels


 **On the genetic potential of your herd : thanks to the knowledge of the indexes of your females, you manage the replacements of your herd from your best genetics and that from the first mating**

GenoCells® in figures

95% of
farmers
recommend
GenoCells®



More than
100,000
females
genotyped
since 2018



10 distributors
in France



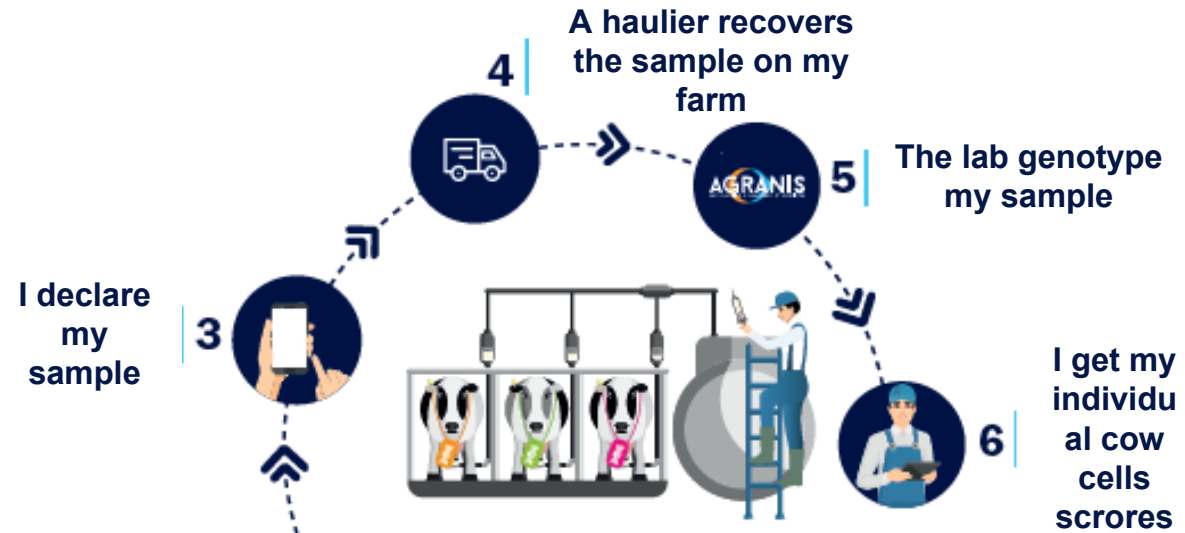
425 users of
GenoCells



4 user
countries in
the world



GenoCells®, How it's working ?



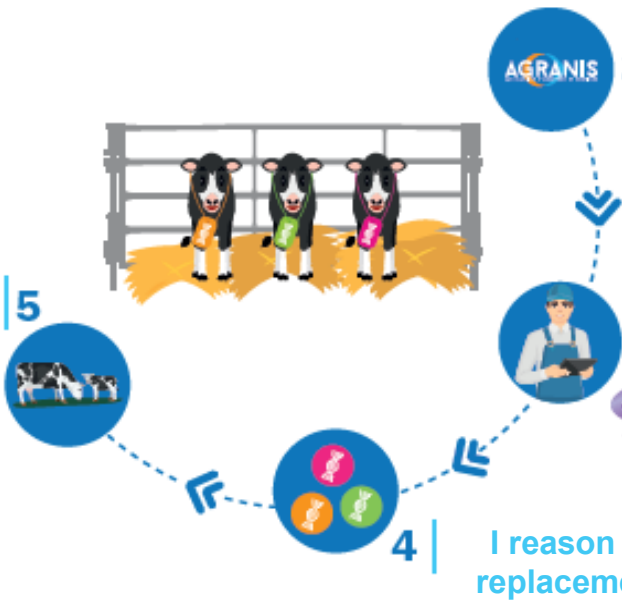
The lab genotype my animals

I receive my results



I reason my replacements

I use GenoCells® from the beginning of lactation



New advances in GenoCells® service





Always satisfy the need



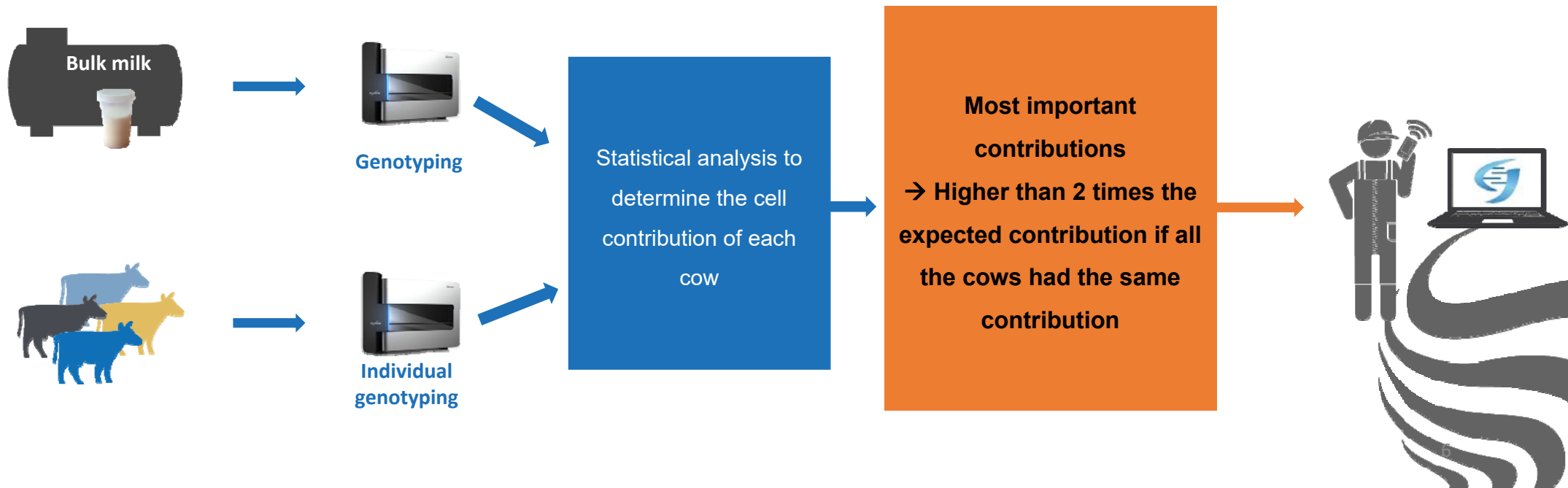
- > For **large herds**, the need is different : « **Just look after the trouble cows** »
 - > Quick view of the cow with problems to **manage the bulk tank** to have less penalties
 - > **Detect as soon as possible** the problem to have **a better medical care** and **better recovery**
 - > **Easy to do** even for herds with more than **several thousand cows**
 - > Possibility to have a **high frequency** of sampling





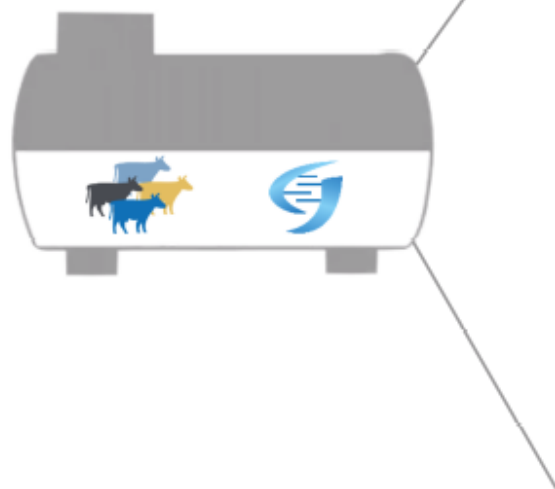
By using the cells contribution

- > **With** the knowledge of which cows are in the bulk tank, GenoCells® determine **the SCC for each cow** in the bulk tank. The farmer has to give in addition the milk yield for each cow.
- > **Without** the knowledge of which cows are in the bulk tank, GenoCells® determine the DNA proportion so the **cells contribution of the most responsible** ones only. The farmer can only take a sample from his bulk tank in this case.

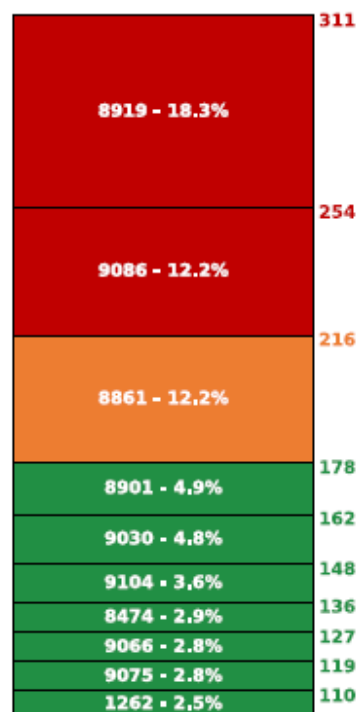




By using the cells contribution : New GenoCells[®] dashboard



CE tank projetées
milliers/ml



LISTE DES VACHES NOUVELLEMENT CONTRIBUTRICES

IDENTITE			Lactation		5 dernières contributions				
N° Travail	Nom	Race	N°	Stade	17/05/22	21/04/22	03/04/22	12/03/22	28/02/22
8901		66	4	83	4.9	0.9	2.1	0.7	
9030		66	3	256	4.8	0.4	1.6	0.8	5.1
9104		66	2	162	3.6	0.8	4.1	1.2	2.7
1262	MIMOLETTE	66	2	234	2.5	0.4	0.9	1.8	0.8
8465	PREMIERE	66	2	112	2.2	0.3	0.7	0.1	0.6

LISTE DES VACHES TOUJOURS CONTRIBUTRICES

IDENTITE			Lactation		5 dernières contributions				
N° Travail	Nom	Race	N°	Stade	17/05/22	21/04/22	03/04/22	12/03/22	28/02/22
8919		66	4	139	18.3	43.1	12.1	9.3	9.0
8861		66	5	45	12.2	4.4			
9086	ORAGE	66	3	76	12.2	5.6	3.4	4.6	
8474	PILE	66	1	257	2.9	4.4	3.6	12.3	1.3
9066		39	3	74	2.8	2.5	23.7	1.9	
9075		66	3	92	2.8	5.4	8.2	7.1	24.7
1351	NAPIA	66	2	294	2.4	4.3	2.5	2.0	7.3





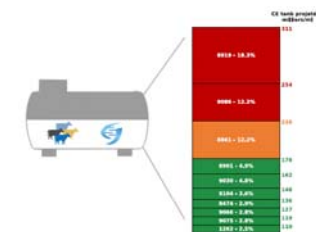
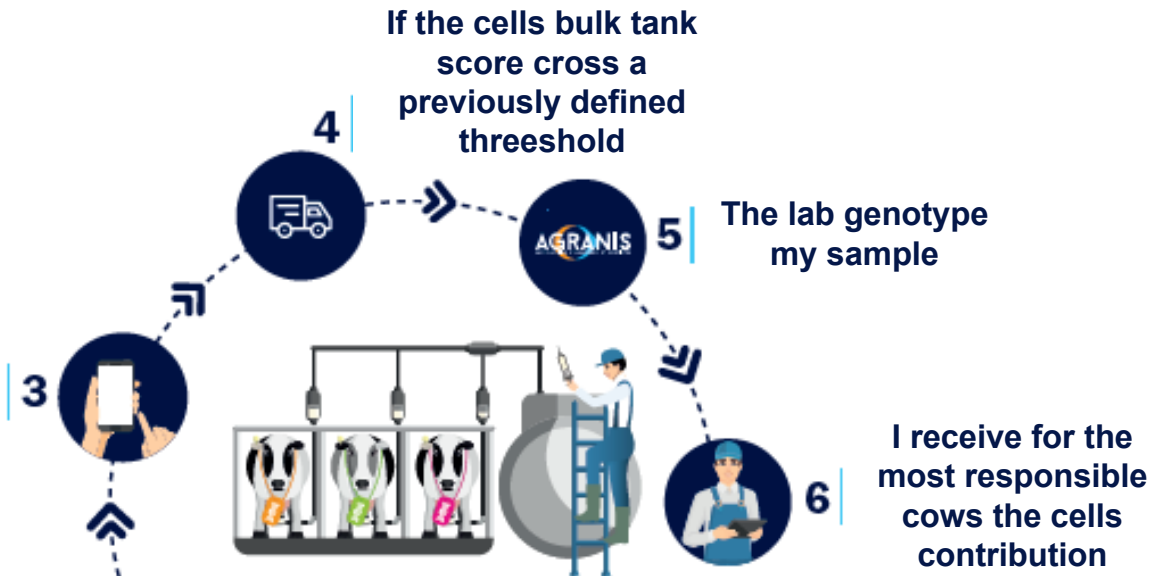
By using the cells contribution : Target blockchain



1
All my herd has to be genotyped

I have nothing to declare

Milk processor take milk from bulk tank as part of milk payment





Perspectives



- > **Work for herds with more than 1000 cows**
- > **Answer to the cells management of big herds** or in small ruminant. Work in progress for small ruminant
- > **New patent based on sequencing** will give us others perspectives



**Thank you for your
attention !**

To go further, come see us at our
stand

