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## SIEL web and an innovative software: MIL'KLIC

*S. Quemener*

*SIEL, 42, rue de Châteaudun 75009 Paris  
(Corresponding author: [stephan.quemener@littoral-normand.fr](mailto:stephan.quemener@littoral-normand.fr))*

SIEL is an association of French MRO's which decided to develop a new software. This software is aimed to advisors and breeders for collecting datas and get a better collecting process.

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### Introduction

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Presentation of SIEL

SIEL is an association of French MRO's which represent :

- 32 MRO's
- 13 300 breeders
- 780 000 cows

These bodies developed a new application called MIL'KLIC.

The association is composed through its members of :

- 360 advisors
- 732 weighers
- 100 staff

The area of use of the application is shown in red on the map reprinted in figure 1.

We use Mil'Klic through a web interface. Breeders and advisors have the same tools. Farmers use the application in online mode only and advisors use the application on connected and / or disconnected mode. It depends if they have an internet connection.

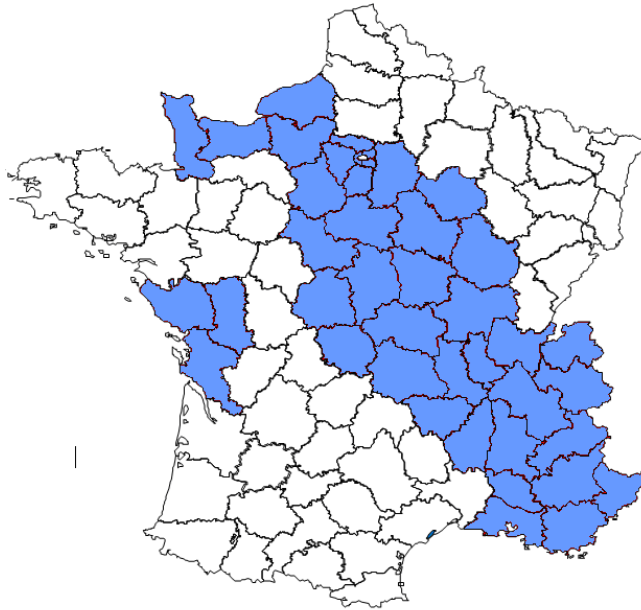
The data collection comes from :

- Paper : the persons who do the milk recording use at this moment a list of cows
- Smartphone : we are going to develop a new application on a smartphone support
- ORI-AUTOMATE and ORIGINAL robot
- Others sources of information from the French genetic information system (insemination, animal identification, ...)

Mil'Klic is an online application in line with the overall SIEL database and calculated based on known data. It allows alert, identify, analyze and compare data from one farm to groups. Mil'Klic also keeps track of its breeding events and lactating dairy herd.

Mil'Klic formats playful and interactive outcomes for members and advisors. The valuation was built around the various technical topics related to the dairy herd

- " The control results
- " Analysis stage of lactation



*Figure 1. Geographic areas of action of SIEL.*

- Food alerts
- Economic valuation of the ration techno
- Udder alerts
- Reproduction alerts

For each theme a complete history of the 13 last test results used to complete the analysis.

A complete "Dossier animal" classifying the events of the animal by category (Identity, Production, Repro / Calving, Health fattening state) provides a graphical view of events on the life of the animal.

A unique feature called "E-Conseil" allows the counselor to file specific alerts to visited pages to maintain a link between the advisor and the farmer visits between 2 boards.

Comparisons of groups are present on the screens results of control, distributed power and udder alerts. The groups are managed Mil'Klic. The group composition is from the farm and features an automatic recalculation of farms affected the comparison group to place 1 to week.

The data groups (averages) are, however, updated every night. The average of a group therefore is the average of the last inspection of the group's farms (moving average) as shown on figure 12

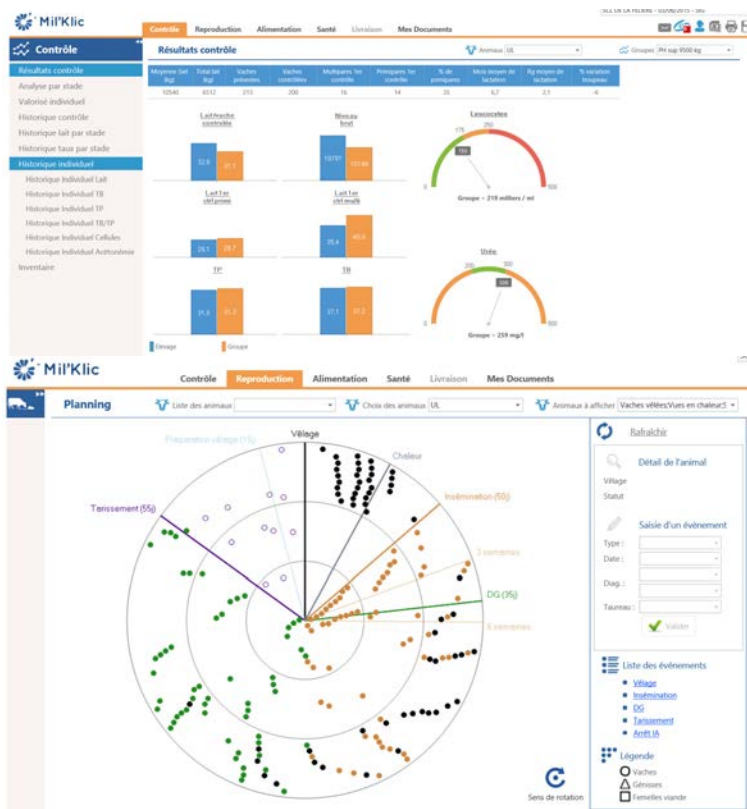


Figure 2. Example of Reports generated by Mil'Klic.

The next evolutions of Mil'Klic :

- Milk production forecast.
- Nutrition tool.
- Pregnancy diagnosis.
- Smartphone application for farmers to have warnings.

Next developemts for Mil'Klic