



19. Milk Recording Workshop Modern Tools for Milk Recording Management

Title presentation

Innovation and digitalisation. Towards automation of data collection

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Abstract

In France, livestock consultancy firms are competing with each other in ingenuity to shape tomorrow's data collection processes. There are 4 main areas of development:

- Computerisation of milking parlour data collection. In addition to the use of TTHI (Mechanical milk-meter), most companies have equipped their agents with data entry software running on smartphones allowing on-line data collection. This system, coupled with an RFID chip integrated into the vials, enables laboratories to know precisely which analyses are to be carried out on each sample and to anticipate the volumes of analysis the day before arrival. This technology is a source of performance and traceability.

- Robot data management. Robotisation has won over our campaigns over the years. The France Conseil Elevage network first accompanied this development by creating its own Ori-Collector universal sampler. It is now available in several models and can be found all over the world.

But it was necessary to go even further. The renovation of the exchange system with the automats was the 2nd important innovation that France has achieved. With the DataHub 360°, the FCEL network is now able to connect to all the automats, both through the CLOUDs and directly with the farms' PCs. This system is a real source of added value for the customer. It provides a triple advantage:

- o It simplifies the operations of recording information in the robot.
- o Enable it to interconnect the technologies it owns to facilitate their use
- o Give them the benefit of modern tools for enhancing the value of their PLC data.

- Automation of data processing. The third innovation of the France Conseil élevage network is its desire to bring the process of milk recording performance checks with robots into a new era. We are moving towards a cohabitation with :

- o Milk recording performance checks with spaced deadlines, carried out with Ori-Collector, combined with automatic data recovery and semi-automatic processing.



o Automated and regular (daily or weekly) milk recording checks, evaluating the quantities of milk for genetics and the data from the analysers for advice (as long as the analysers are not ICAR approved).

- Enhancement of data and simplification of monitoring operations.

The milk meter is the farmer's first tool, used every day and in all conditions. It is clear that annual monitoring is necessary but far from being sufficient. The France Conseil Elevage network has therefore deployed a monthly monitoring system to track the accuracy of meter information. It thus makes it possible to detect malfunctions at an earlier stage and to replace a substantial part of the checks on farms (operational on milking parlours - 2022 for milking robots).