Session: Milk Recording Workshop: Modern Tools for Milk Recording Management

Title: Innovation and digitalisation. Towards automation of data collection.

Author(s): G. Augier / D. Saunier (France Conseil Elevage)
Milk recording in France

Distribution of protocol in France

A = 47,7% - AT et CZ = 27,6%
AR/BR = 13,0% - B by the breeder = 11,7%

Market share

61% of breeders – 64% of cows – 78% of milk production

32 798 breeders in milk performance

300 000 qualified cows for robot, with 70% in BR
A major challenge to take up

What solutions have been provided to modernize and innovate milk recording according to the type of farmer installation?

- Computerization in the milking parlour
- Monitoring for the milking parlour
- Automation of data collection with Milking Robot
Computerization in the milking parlour
Computerization in the milking parlour

**Benefit for the breeder**
- Customization of the service, advice in the choice of analyses

**Benefit during milking**
- Time saving, working comfort, breeder accessibility

**Benefit for the process**
- Sample Traceability and error reduction

Load farm & Select analyses
- Entry data on the PDA
- Write the tag RFID sample
Computerization in the milking parlour

Forecast of laboratory inputs

Deadline for return of results:
Gain of at least 1 day on average (from 3 to 2 days) at the France level

IN THE FARM

Resource optimization and analysis

AFTER MILK RECORDING

Data Transfer

Sorting and analyses

Processing and sending
Monitoring for the milking parlour
Centralized monitoring of data exchanges with decentralized storage per company.

Secure exchanges, informed consent from the breeder, high availability of the platform.

Ease of use by remote setting and updating.

Extension of the scope of data exchanged VS Ori-Automate.

Monitoring for the milking parlour.
Monitoring for the milking parlour

Interconnecting data to provide innovative services to breeders

Web and mobile application to record Milk meter checks

Milk meter Monitoring
Monitoring for the milking parlour

Monthly monitoring of meters

Graphical view by milk meter
Automation of data collection with Milking Robot
Automation of data collection with Milking Robot

- 1350 Ori-Collector® sold worldwide
- Universal sampler for all robot
- Worldwide distribution
- 5 models from 20 to 132 samples
- Sale provided by ICOMATEL - FCEL
- ICAR agreement
- Certification ISO9001
- Robustness
- Simplicity
- Universality
- Mobility
- Lightness
- Ease
Automation of data collection with Milking Robot

Organizations Information System

Automation milk recording process
Integration every 5 days of a milk calculated over 96 hours
Data exchange with robot
Advise with the farmer sensor
Conclusion
**Benefit for the breeder**
- More service & advise
- Follow the demand
- Start to use the sensor data

**Side Milk recording**
- More efficiency, traceability, reactivity
- Automation of data collection
- Customise the service

**Go to the future**
- Sensors will become a source of data for genetics
- It's up to us to guarantee the reliability of the sensors, to ensure their interconnections and to ensure the global monitoring

**Conclusion**