Global management of milk recording service with FIDOCL

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Historical way of sampling and datas collecting on farm
RFID Introduction

TARGET

- Better traçability
- Time saving for the Milk
- Recording Agent
- IT management => 0 paper
- Simplication of the B protocol (by farmer)
- Recording Cost control
Demands of new analysis

QMS
Quality Management System

Numbering = hand writing
c connected to animal’s Id
=> MISTAKES

New analyses on one milk sample

Fat, P, Cells
+ pH, lactose, Uréa, Fat acids
+ spectres IR
(In calve check, fertility, acétonemy)
RFID choise

- RFID high frequency 13,56 Mhz (HF)
- RFID low frequency 134,2 Khz (LF)

SAME FREQUENCY: CONFIRMED
RFID LF for both: animal + sample

😊 ONE frequency = ONE reader
😊 But less use in the industry...
« Animal’s » RFID

- RFID ear’s tag
- RFID pastern’s tag
  - Soft, simple
  - Stand alone
  - Intermediate solution
RFID: Vials & PDA

VIALS

PDA

Fonctions: Reader RFID LF + GPRS
Coherent Chain

RFID LF
pastern tag – recycled vial – analyser – vial’s washer
Information track

1. Gestion de l'adhésion LP@
2. Planning prévisionnel OCL
3. Descente des LPE sur le PDA
4. La pesée
5. Remontée des contrôles Gestion du planning
6. Envoi de la LP

Système d'Information
Tasks on the farm

Before the milking

- **Milking’s parameters**
  - Nb of milking (from the protocol)
  - Nb of samples

- **RFID parameters**
  - Animal’s RFID or not
  - Sample’s RFID or not

- **Recording type’s parameter**
  - « roto » or « regular parlor » mode
Tasks on the farm

Extra datas to record

- Mastatis
- State of fatness
- Milk tank datas
Washing and recycling of the vials

Started November 2010

Washing of the vial’s basket

Bronopolage

Cork-up
Test & Deployment of the LP@

- Tests in 2010
- Deployment in 2011
- Difficulties =
  - RFID LowFrequency devices
  - still waiting for all-in-one PDA-phone-RFID reader
Budget

- **Logistics**
  - less paper
  - GSM cost
- **Vials / washing**
  - less new vials
  - less destruction
  - evacuation of old vials
- **PDA**
  - automatic washing machine
- **Pastern tag**
  - 1 handset device /agent
  - 2.5 € / tag /animal

**COST** => + 0.5 € /cow / year
Situation 2011

NORD - PAS DE CALAIS

BRETAGNE

LP@

RHONE-ALPES

AUVERGNE

Animals
+ vials
+ LP@