



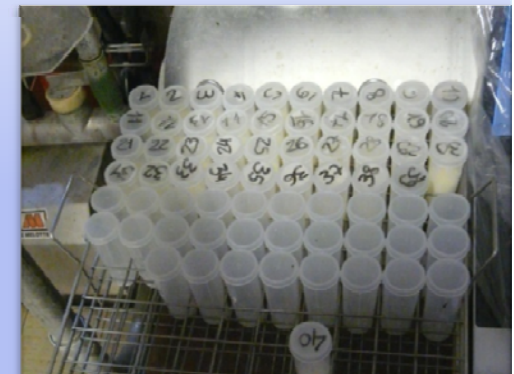
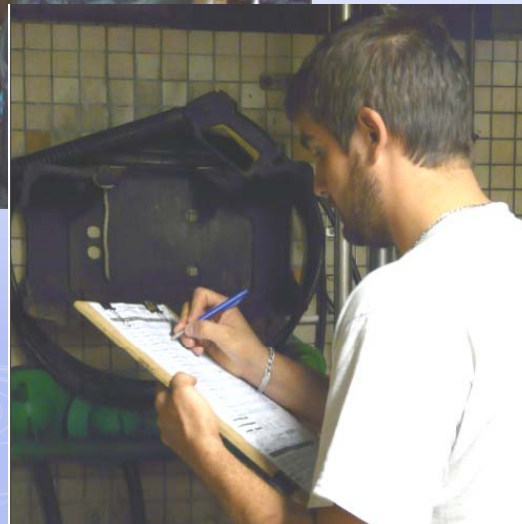
Global management of milk recording service with FIDOCL

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Rencontres internationales
des Professionnels de l'élevage
ICAR 2011 BOURG en BRESSE - FRANCE



Historical way of sampling and datas collecting on farm



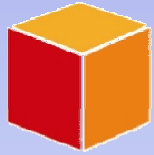


RFID Introduction

TARGET

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





Demands of new analysis

QMS

Quality Management System



Numbering = hand writing
connected to animal's Id
=> MISTAKES



New analyses on one milk sample

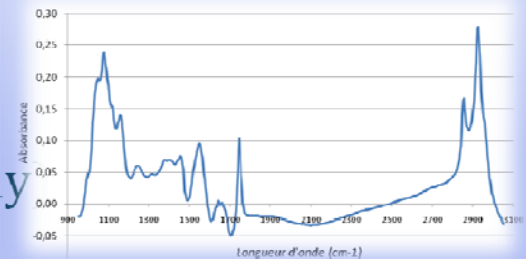


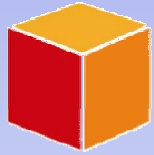
Fat, P, Cells

+ pH, lactose, Uréa, Fat acids

+ spectres IR

(In calve check, fertility, acétonemy)





RFID choice

- ▣ 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

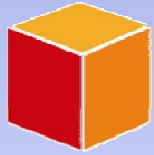
□ RFID ear's tag



□ RFID pastern's tag

- Soft, simple
- Stand alone
- Intermediate solution





RFID: Vials & PDA

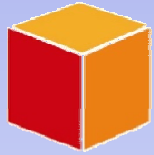
VIALS



PDA

Fonctions : Reader RFID LF
+ GPRS





Coherent Chain

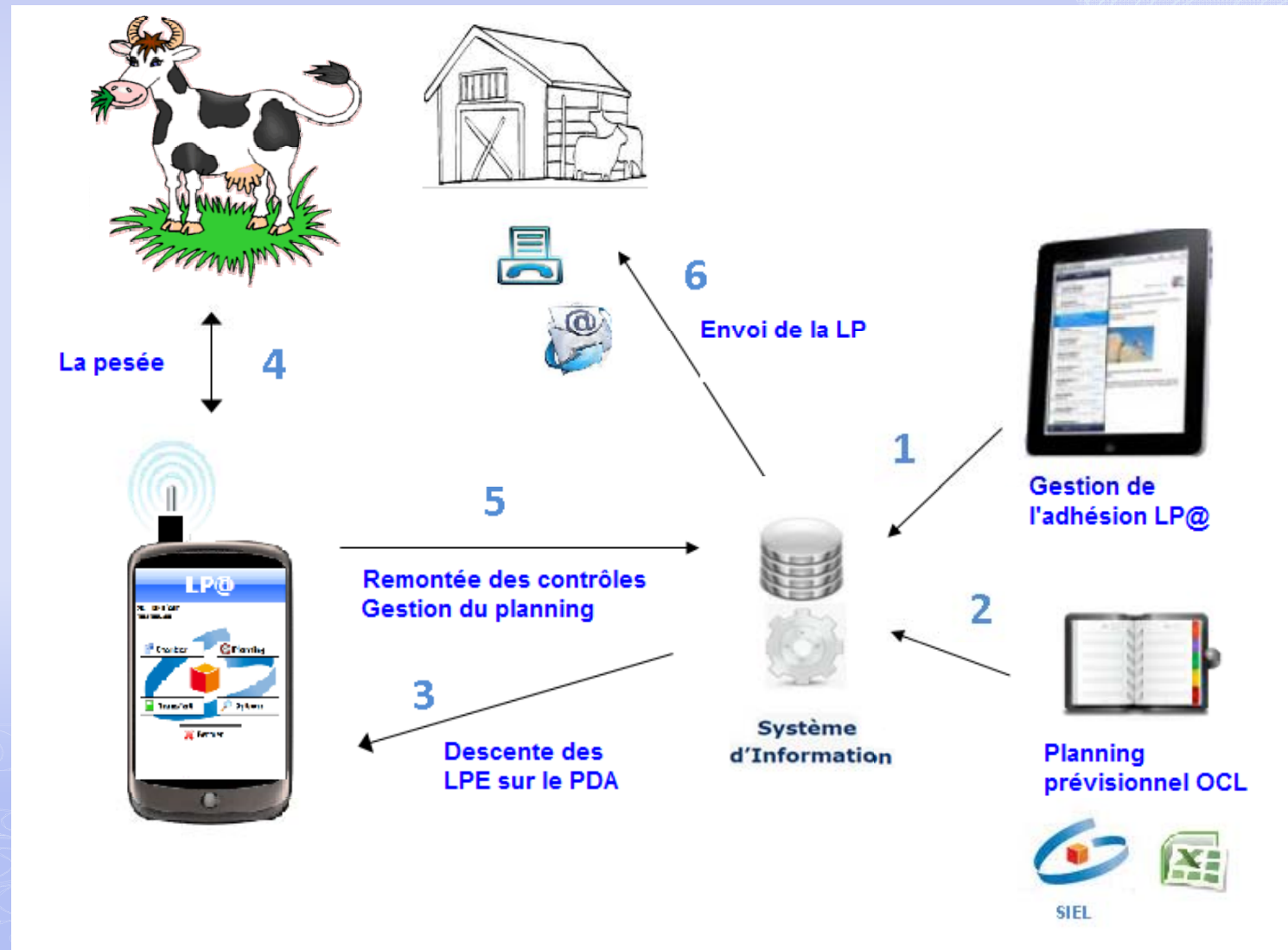
RFID LF

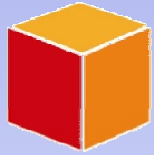
pastern tag – recycled vial – analyser – vial's washer





Information track





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

[EARL DU MOLESON 010 .]

♥ Traites

Nb ☐ 1 ☒ 2 ☐ 3

dont (flacons) ☒ 1 ☐ 2 ☐ 3

♥ Lecture électronique (RFID)

Animal ☒ Oui ☐ Non

Flacons (du panier) ☒ Oui ☐ Non

Saisie ☒ normale ☐ roto

Chantier Pesée Compléments Fin



Tasks on the farm

Extra datas to record

- ❑ Mastitis
- ❑ State of fatness
- ❑ Milk tank datas

Saisie d'une mammite

♥ Animal

Animal : AVOINE / 2280

♥ Date et sévérité de la mammite

Date : 23/11/2010

Sévérité : ☒ Locale ☐ Globale

Annuler Valider

Saisie du code état

♥ Animal

Animal : BICHETTE / 1426

Etat préc. :

Etat calculé :

Lait de la traite :

♥ Code état et date

Code état : V - Vêlage

Date : 23/11/2010

Annuler Valider

Infos du tank

♥ Avant la traite

Lait du tank (litres) :

Nb de traites :

Lait écarté (litres) :

♥ Après la traite

Lait du tank (litres) :

Lait écarté (litres) :

Annuler Valider



Washing and recycling of the vials

Started November 2010

Washing of the
vial's basket

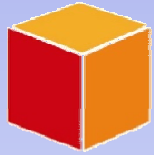


Cork - up



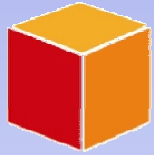
Bronopolage



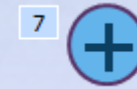
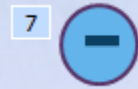


Test & Deployment of the LP@

- 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

automatic washing
machine

□ PDA

1 handset device /agent

□ Pastern tag

2,5 € / tag /animal

COST => + 0,5 € /cow / year



Situation 2011

BRETAGNE

LP@

NORD - PAS DE CALAIS

LP@

RHONE-ALPES
AUVERGNE

Animals
+ vials
+ LP@