



FCEL at the Heart of development for the performance milk recording

ICAR 2011 Bourg en Bresse

- A. Context in France
- B. Solution Electronic Milk Meter mobile
- C. Solution PDA for recording
- D. Solution Software « Ori-Automate »



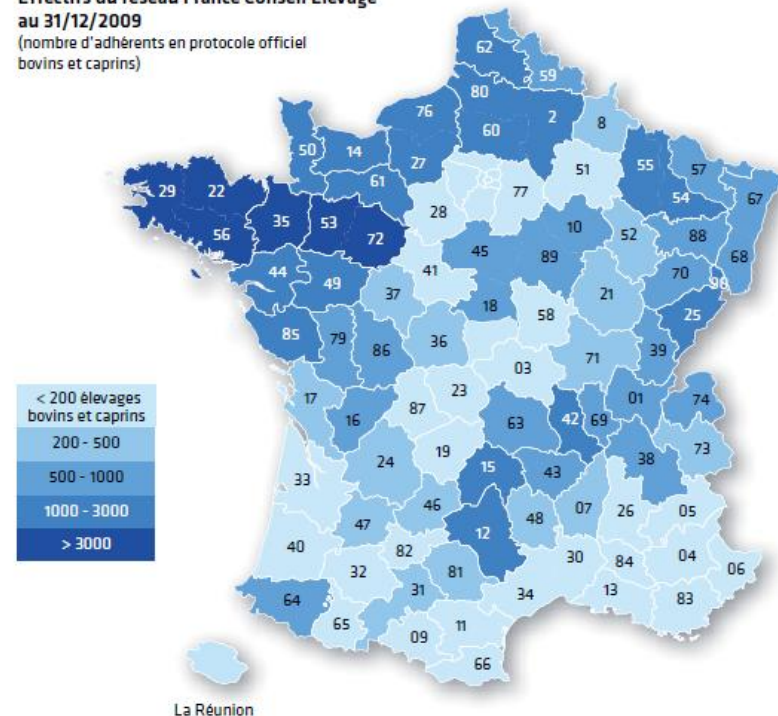
Who is FCEL in France?

- 50 888 Breeders (Cattle/Goat)
 - Cattle
 - 2 541 306 cows
 - 48 987 Breeders
 - 51,9 Average cowshed, (8221 kg/ 338j)
 - 68 % Cows in France (83% Milk production for Dairy)
 - Goat
 - 381 500 Animals
 - 1 900 breeders
 - 200 de Moyenne étable (842 kg/274 j)
 - 43% goats in France (51% milk production for Dairy)



- 74 Company for Advise breeders
 - 2322 operators
 - 1284 Engineers advisers
 - 187 Supervision of Staff

Effectifs du réseau France Conseil Élevage
au 31/12/2009
(nombre d'adhérents en protocole officiel
bovins et caprins)



- About the Market ?
 - Herd more and more bigger
 - Milking equipment more sophisticated
 - Milk Market no stable
 - Milk Quality can be better
 - The cost of the labour more expensive
 - A more mature technology
- All this points have permitted to modernize the milk recording organization



- Lactocorder de WMB
 - 2000 Devices (Cows and Goats)
 - 28 breeding company
 - Vial Washable in 50 ml
 - Tag RFID BF and Glass tag
 - Use in Control of performance
 - Protocol A, B, CZ (Cattle and Goats)
 - Milking Assistance (100)
 - Identification Automatic (Cow en Goat)
 - Pastern (with reader Commander)
 - Official Ear tag (Identification Individual or Archway)



- EMM of TruTest
 - 2300 Devices, 1500 in the field
 - 8 Breeding company
 - Vial Washable 40 ml
 - Tag RFID HF with Memory(Report)
 - Use in Control of performance
 - Protocol A and B (Cow)
 - Software of milking assistance
 - Pastern (with reader on DH)
 - Official ear tag (Identification individual or archway)



- Fcel has developed
 - Oriclef: software of link for Lactocorder and EMM
 - Management of the load and unloading on tools
 - Management of the Milk recording with correction
 - Flask washable 2 Models 40ml and 50ml
 - Integration of the RFID in the Vial
 - 450 000 vials
 - Management of the recycling of the vial
 - In association with laboratories
 - Wash, Conservative and Corking

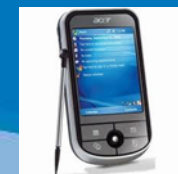


Oxygen Conseil Elevage has developed

- A PDA (50 PSION)
 - Seizure of the milk weights (or code of state)
 - Validation of the control
 - Forecast of tour
 - Seizure of the clinical mastitis
 - Creation of an electronic receipt
- Interfacing of the EMM



Data Circulation



SYNel

Record Official

TGLait

A.R.S.O.E

List of cows

Control
Validation

Record
Laboratory

Analysér

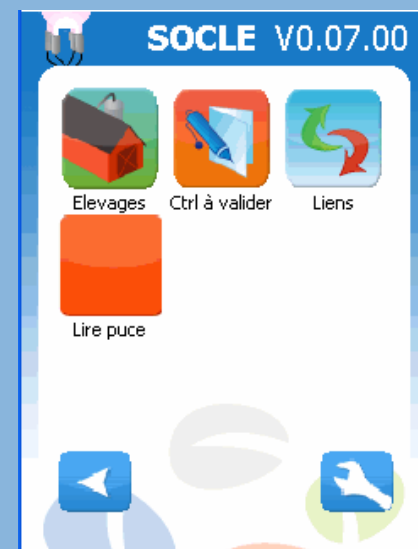
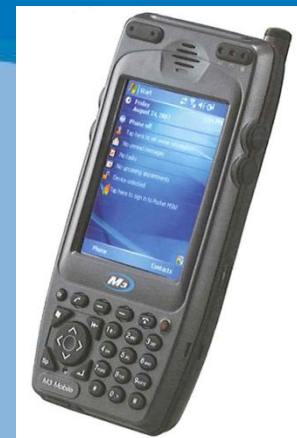


Reader RFID
on table

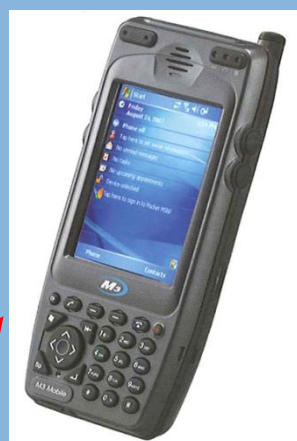


SOCLE from BCEL 35 and BCLO

- A PDA (525 devices)
 - Seizure of the milk weights (or code of state)
 - Reader RFID for Vials
 - Validation of the control
 - Seizure of the clinical mastitis
- Future evolution
 - Recovery the other information
 - Interfacing of the EMM DE TT



Data Circulation



List of cows

Control
Validation

A.R.S.O.E

Record Official

AGRAEL

SIEL BZH

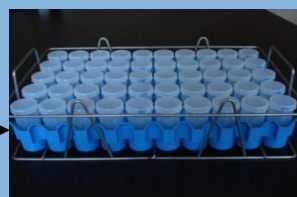
Washing Machine



Robot Ilas



Rack Ilas



Vial
EMM 40 ML



Profits of the solutions 1 and 2

- Valuation of the job for the agent
- No paper list
- No double Seizure
- Validation and correction of the control in farm
- Traceability of samples
- Results quickly for the breeder
- Automation of the data management
- Secure management of Vials / tags



France Conseil Elevage has developed an interface of communication with the automatons of the breeders:

- *Interface all the systems of the marks(brands) (Lely, Delaval, Gea, Boumatic, Fullwood)*
- *Exchange of the data: weight of milk, rate, fertility, feed, etc. ..*
- *Ascending and downward exchange, in automatic or manual, completely Autonomous interface*

Advantage: *Avoid to the breeder the double seizure Automatic Transfer of the data.*



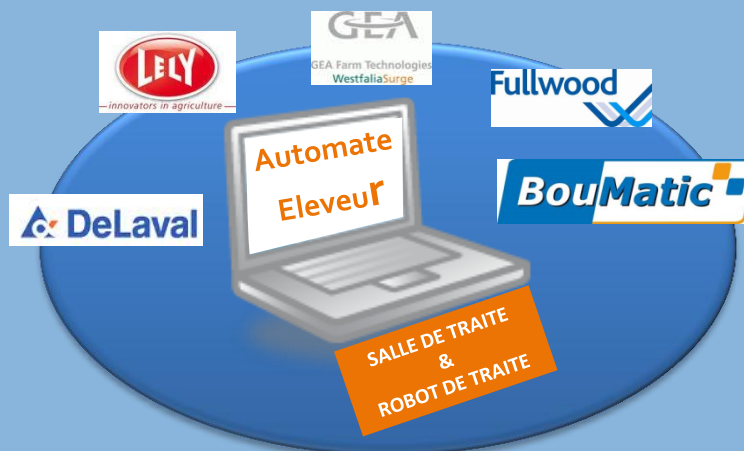
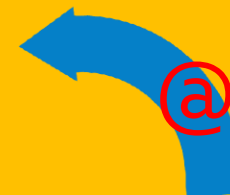
**IMPORT of the
DATA**



Information System of
the breeders
organization



**EXPORT of the
DATA**



Data Exchange

Version 1 (in November, 2010)

- Data exported by automatons:
 - Weight of milk in every draft(milking) / date / hour on the last 7 days
 - Date input-output UL
 - Date calving, drying up, heat, insemination, diagnosis of gestation
- Data imported
 - Data of inventory (N national of identification, Date of birth, race, N of group, Date of entry, and exit)
 - Milk Recording : Protein, Fat ,somatic cells counts.
 - Date calving, IA / SN

Version 2 (in December, 2011)

- Integration of new Manufacturers (Heat Time, Heat Box and Creavia)
- New data of the sensors, activity, conductivity, analysis.
- Complementation of the feed ration (OOPF and Robot)



Ori-Automate

Fichier Traitement ?

Système de traite

Fabricant / logiciel
Westfalia Surge / DAIRYPLAN version 5.2

Exploitation

Numéro
FR 63003035

Transfert

Date dernière importation
Date dernière exportation

Journal du transfert

Début du journal : C:\proftem\OriAutomate\Log\LOG_20101108000159_I.txt
 Chargement référentiel
 Vérification configuration
 Nettoyage du répertoire C:\proftem\OriAutomate\Import
 Nettoyage du répertoire C:\proftem\OriAutomate\Export
 Nettoyage du répertoire C:\proftem\OriAutomate\Tmp
 Nettoyage du répertoire C:\proftem\OriAutomate\Log
 Vérification traitement batch précédent en erreur
 Nombre de journaux signalant des erreurs : 0

Importation

Fichier XML (ou ZIP) I_FR 63003035.xml

Population concernée

Sexe ☐ Mâle ☒ Femelle

Agé de plus de 6 mois

Production ☒ Lait ☐ Viande ☐ Mixte

Autres événements

☐ Depuis jours
☐ Entre Select a date 15
 Et Select a date 15
☒ Depuis dernière importation

*	Information	Valid.	Utilisateur
<input checked="" type="checkbox"/>	Dossier Animal (Identifiant, Identité, Mouvement)	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	Vêlage	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	Insémination	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	Résultat d'analyse	<input checked="" type="checkbox"/>	

Exportation

Fichier XML (ou ZIP) O_FR 63003035_20101108000409.zip

Traite

Depuis 7 jours

Autres événements

☐ Depuis jours
☐ Entre Select a date 15
 Et Select a date 15
☒ Depuis dernière extraction

*	Information
<input checked="" type="checkbox"/>	Traite
<input checked="" type="checkbox"/>	Vêlage
<input checked="" type="checkbox"/>	Insémination
<input checked="" type="checkbox"/>	Chaleur
<input checked="" type="checkbox"/>	Diagnostic
<input checked="" type="checkbox"/>	Tarissement

☒ Dossier Animal (Identifiant, Vêlage, Insémination, Résultat d'analyse)

☒ Traite
☒ Vêlage
☒ Insémination
☒ Chaleur
☒ Diagnostic
☒ Tarissement



Thanks for your attention

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