SmartLY

Secure data gathering & Federate breeder services

EILYPS

CONSEIL · EXPERTISE · ÉLEVAGE

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Eilyps

- Eilyps is a milk recording company from Brittany in France.

Dairy production
Data collection and advice

Beef production
Data collection and advice

Environnement
advice

Farm Buildings
Consultant

Chronicle

- 6 years ago, we developed an application on PDA - called SOCLE - to **replace paper use** in farms

- Today, EILYPS has created a new application for smartphones. It **includes several collection** modules: milking sample, health, specific order for analysis, and so on …

Business objectives

- **Avoid duplicate entries** (paper and electronic entries)
  - ▶ **Profit (EILYPS) : 15 min. /milking /advisor**

- **Secure** data gathering

- **Reduce operations** during milk recording

- Reduce **corrections within the chain** of data processing.
  - ▶ **Profit (EILYPS) : 17 K€**

- **Enhance faster data** for dairy farmers

Technical objectives

- Remain **open to technological developments** (OS and SmartPhone)

- Have a **scalable architecture**:
  - One action, one module (testing, order,…)
  - **Re-use modules** (partner application, farmer application, …)
  - Able to **adapt screens** for each customer requirement
  - Using **BYOD** (Bring Your Own Device) behaviours

- **Localise native** application (easy translation labels)

SmartLY

1	• Business approach
2	• Modular Architecture
3	• Economic Model
4	• Planning

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Data flow before

Data gathering on farms

| Paper list of milk quantity | Sampling | Data entry on Eilyps desktop software | Sending data to data base | Sample analysis | Data Base Synchroni-sation | Analyses and weight matching | Data Base Synchroni-sation | Data control | Data Enhance-ment |

Simplified data flow

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Modular Architecture

Based on ILYCO Platform

SmartLY

Common tools (Parameters, Users, Farms …)	
Milking	Testing
Health	Ordering
Activity	Catalogue
Advisor	…
Storage	
RFID	I/O

ILYCO

- Common tools
- Business Control
- Storage Buffer
- Web Services Proxy

Web Services

Data Base
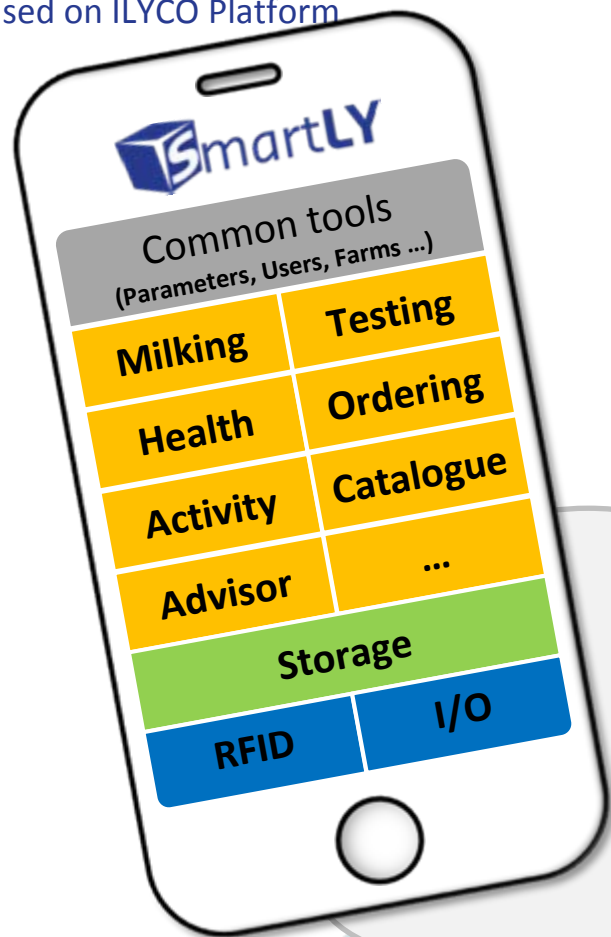
Milk Recording Module

- Collecting **all information** concerning milking :

  - Animal identification
  - Farm information
  - Date and time
  - Weight of milk

- Ready for all types of milking parlour

- Using **NFC technology** and RFID chip **MAINtag**
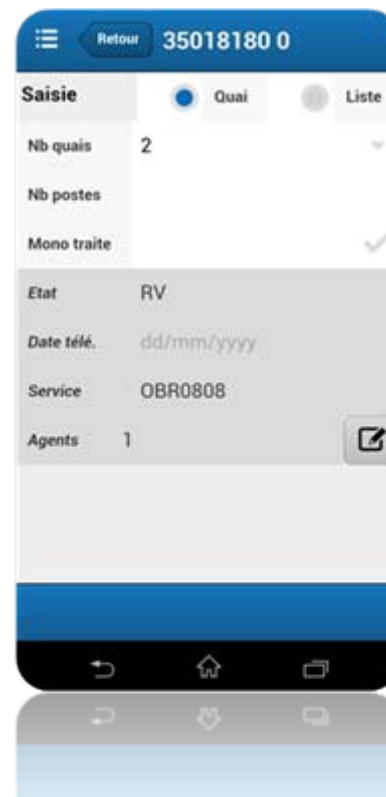
- Immediate transfer of data with Symetric DS Technology

Milk Recording Screenshots

Home Screen
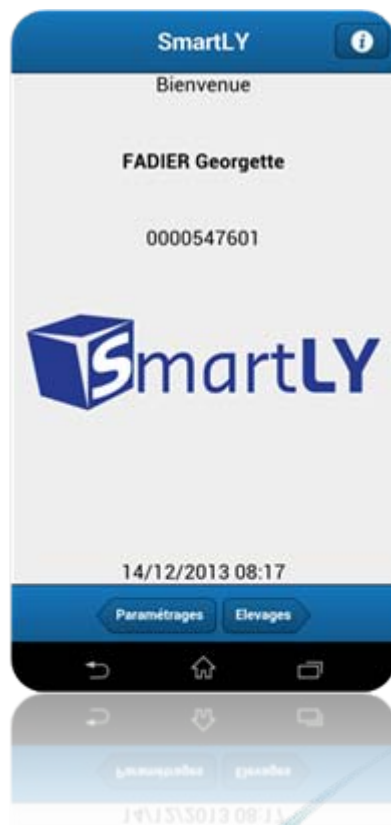
Farm parameters

Milk Recording Screenshots

Milking (Herringbone Parlour)   Milking (Herringbone Parlour)   Milk quantity

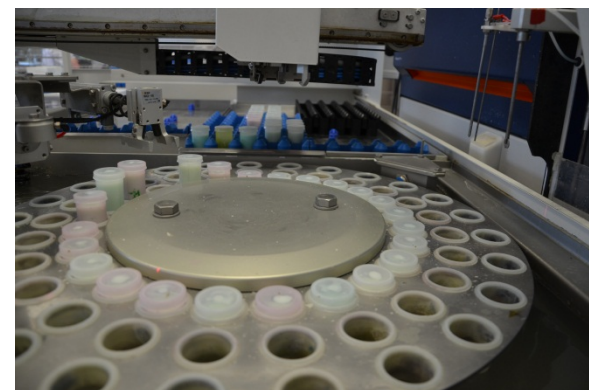# Milk Recording Screenshots

Animal (Liste mode)

Milk quantity

Specific Analyses Module

- Flag written on tag with NFC technology to:

  - **Choose analyses** (with management rules)
  - **Sort sample** in laboratory

- Supplementary module suitable for

  - Mechanical milk meters
  - Electronic milk meters
  - Robots

Specific Analyses Screenshots

Module selection for analyses	Writing module	Report

Electronic ID Module

- **Option with LF/HF reader** from Reyflex :

  - Read anklet
  - Write animal identification on milk meter
  - Recognize sample with milk meter tag
  - Write data collection on sample chips

- Module suitable for

  - Anklet
  - Eartag

Electronic ID Screenshots

Module selection for EID

Automatic Search

Identification

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2 possible formulas

	License	Service
*Smart*LY licence	✔	✔
Common settings(*)	✔	✔
Start-up support	✔	✔
Software Maintenance	✔	✔
SmartPhone NFC		✔
Data 250Go/month		✔
Samples dock		✔
Hardware maintenance		✔
RFID sample		
Interface with the existing Information System		

(*) Farms, animals, agents

2 possible formulas

- First level : **License**

    - SmartLY concept

    - Common tools with all parameters SmartLY needs to works

    - Support to set up in milk recording companies

    - Software maintenance

2 possible formulas

- Second level : **Services**

  - Including first level

  - NFC smartphone

  - Sample dock

  - Subscription data

  - Hardware maintenance

- Option : **sample and RFID tag**

Modules

	Cost*	Available
Milk module	4 €	April 2014
Health module	4 €	November 2014
Activity module	2 €	November 2015
Specific Analyses module	4 €	June 2015
Electronic Identification module	4 €	September 2015

*Available for 2015

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Planning 2014 2015

SRM
Eilyps

SRM
ACE

SRM
ECLA

SRM
CLASEL

2014

2015

Heath
Module

Specific
Analyses
Module

Electronic
Identification
Module

Activity
Module

R&D

Milk Recording Companies

SRM :Software Release Management

Thank you
for your attention