Software offer from French farmer’s organisations to support livestock

L’expérience et le savoir faire
daus la mise en œuvre des solutions ICT
pour toutes les activités de l’élevage.

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LIVESTOCK FARMING IS FACING HIGH CHALLENGES:

- **Increase** in demand for **volume**, safe and healthy **food**, **sustainability**.

- **Increase in competition with agricultural sectors** (crop, poultry and pig...) and between countries in Europe and at global level.

- **Livestock farming** working conditions are **not attractive enough**.

These challenges cannot be addressed without Information and Communication Technology (ICT) applications.
COST AND VALUE OF MANY LIVESTOCK ACTIVITIES LARGELY DEPEND ON ICT APPLICATIONS:

- Selection and herd book keeping
- Traceability and animal marketing
- Farm and herd management
- Advice
- Animal health data management
- Applied research
- Performance data record

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Technical services are provided to many farmers for different species

- Dairy Cows: 4,500,000
- Beef Cows: 4,000,000
- Dairy Sheep: 3,500,000
- Meat Cows: 3,000,000
- Goats: 2,500,000
- Others: 2,000,000

Recorded
Farmer’s organizations provide their members with a wide range of services for:

- animal traceability,
- performance data recording,
- artificial insemination,
- animal health management
- advice, consultancy
- herd book keeping.
- type classification

More than 50% farmers are using ICT applications for herd management.

For instance 3000 robots

More and more automatic devices and RFID
A strong and old implication from farmer’s organisation in ICT applications

French farmer’s organizations have managed for more than thirty years a cooperative network whose mission is to provide both farmers and their organizations with ICT applications.
Advanced activities:
- Design
- Development of software
- Hosting of applications

Human abilities:
300 persons including about 150 specialists in software engineering.

Products and services are leaders on the French market of herd management applications, in competition with other ICT companies.
Information sharing between livestock organisations and farmers.

Provide livestock organisations and farmers with ICT products and services to support their activities.
Information sharing is a critical issue for ICT applications in livestock farming.

FACILITATE INFORMATION SHARING

- Several type of data are available and consolidated for cattle, sheep and goats of various breeds: animal traceability, parentage, performance data, pedigree, breeding value, health data...

- Data from more than 20 millions of animals from about 100,000 farms are managed.

- These data are also used for breeding value calculation for different species.
A network of synchronised data base with the same data model and the same rules for herd management.

Data are available:
- On line (Web service)
- File transfer

Rights of each user are defined and implemented by the system.
VERSATILE ICT ARCHITECTURE, BUSINESS SERVICES ARE AVAILABLE:

Off line on stationary PC or on mobile PDA.

On line through internet:
- PC with widebroad stationary connection
- Smartphones with GSM 3G connection

With easy connection to several automatic devices (milking, feeding..) and sensors, RFID compatible.
Based on components implementing more than 200 services available under different conditions

Development with **Java** or **Dotnet** technologies.
French ICT for livestock in the world
Conclusions

In a competitive market, French farmer’s organisations remain the leader for ICT applications for livestock.

ICT applications are implemented in order to:
- Facilitate information sharing
- Provide different species and activities with efficient tools and services.

Tools and services are used under different conditions under a SOA approach.

Tools and service are mainly used by French farmers and organisations but some of them are now available for foreign users.