

Software offer from French farmer's organisations to support livestock

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





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



Animal health
data management



Advice

Performance
data record



Farm and herd
management

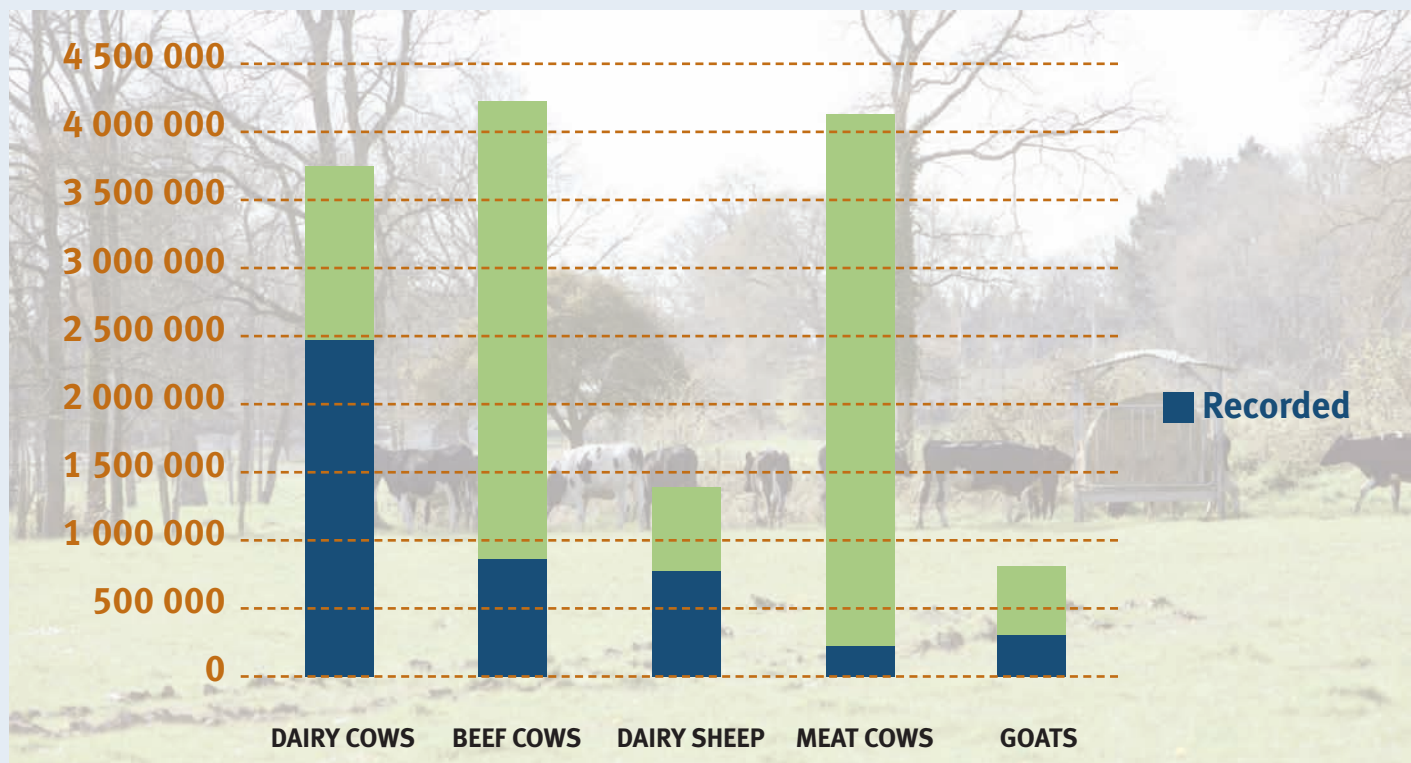


Applied
research





Technical services are provided to many farmers for different species





KEY ISSUES

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.

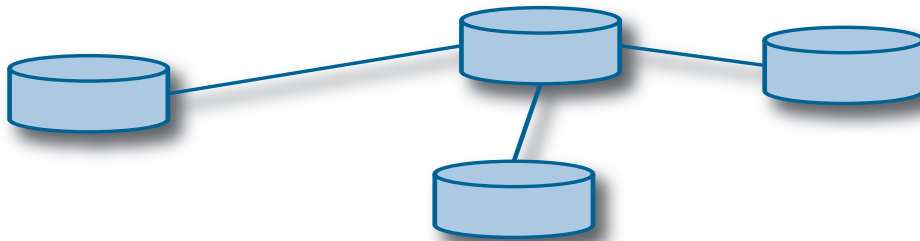
ORGANISATION FOR INFORMATION SHARING



Data are available:

- On line (Web service)
- File transfer

A network of synchronised data base with the same data model and the same rules for herd management.



Rights of each user are defined and implemented by the system

VERSATILE ICT ARCHITECTURE, BUSINESS SERVICES ARE AVAILABLE:



On line through internet:

- PC with widebroad stationary connection
- Smartphones with GSM 3G connection



Off line
on stationary
PC or on mobile
PDA.



With easy connection
to several automatic
devices (milking,
feeding..) and sensors,
RFID compatible.



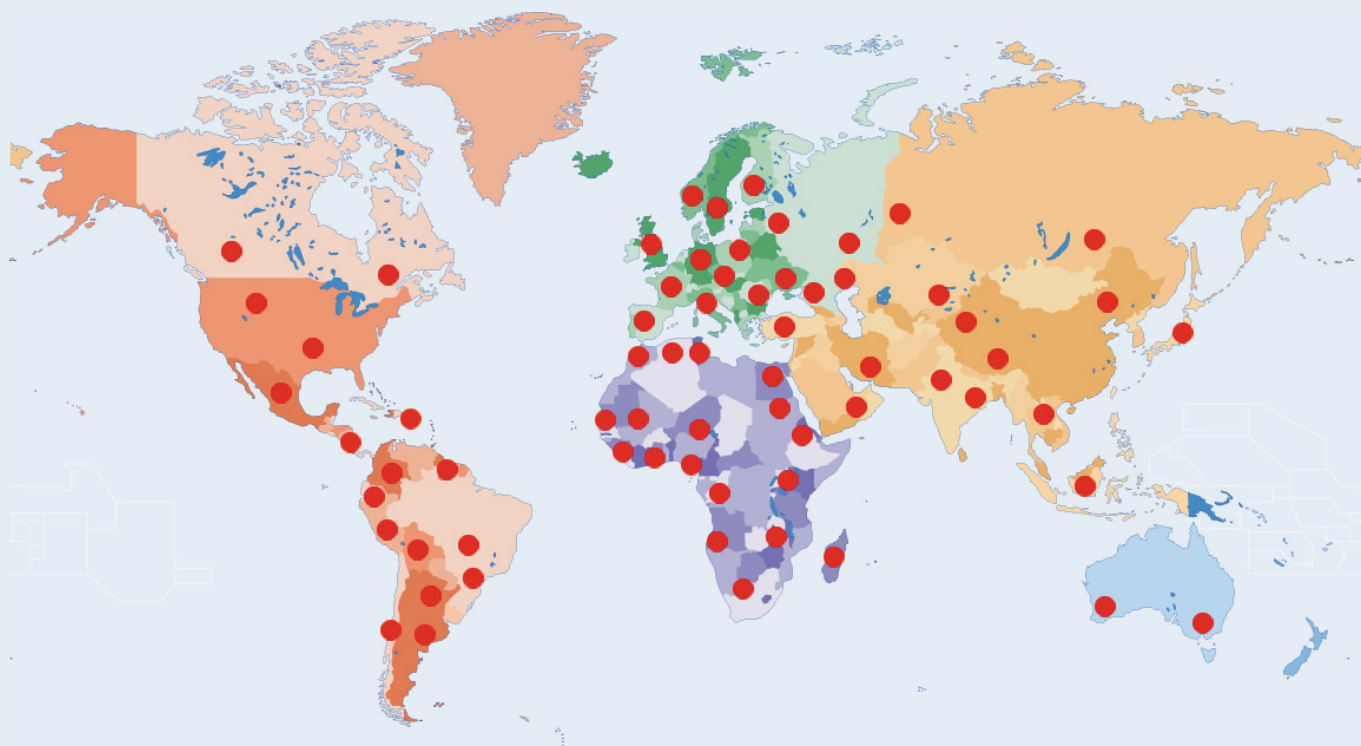
Based on components
implementing **more than
200 services available**
under different conditions

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 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 theme are now available for foreign users.