



France's strategy for a more profitable beef & sheep industry

Session B1 : Information for Profitable Beef & Sheep Farming - Strategy & Information Services
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Introduction and context

France is an important bovine and ovine meat producer in Europe

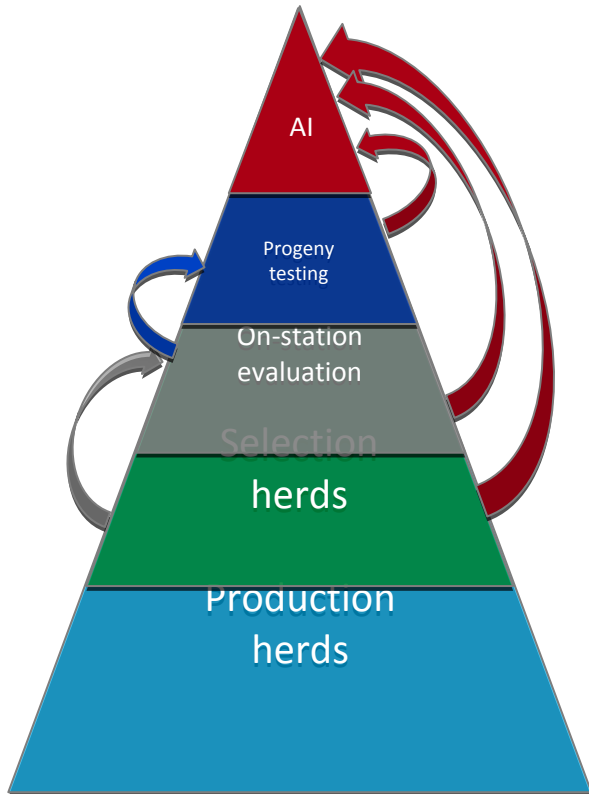
	Beef cattle	Meat sheep
Number of suckling females	4 100 000	4 050 000
Number of breeders	102 000 (> 5 cows)	52 000
Meat production (million tons)	1,591 (1,383 beef meat)	0,102
Rank in EU	1 st	3 rd





French genetic programs in beef cattle and sheep

(FGE 2011)



	Meat sheep	Beef cattle
Nb of progeny tested males / year	195	81
Nb of evaluated young males / year	3 853 (2500)	2 254 (290)
Nb of females in the recording scheme	281 735 7%	937 915 21%
Nb of suckling females	4 050 000	4 100 000





Management of French data

▶ French genetic organizations are developed an information system (SNIG) for each species:

- ▶ To centralize all data to manage genetic programs,
- ▶ To share data between all organizations,
- ▶ To modernize the database management system.

▶ For cattle

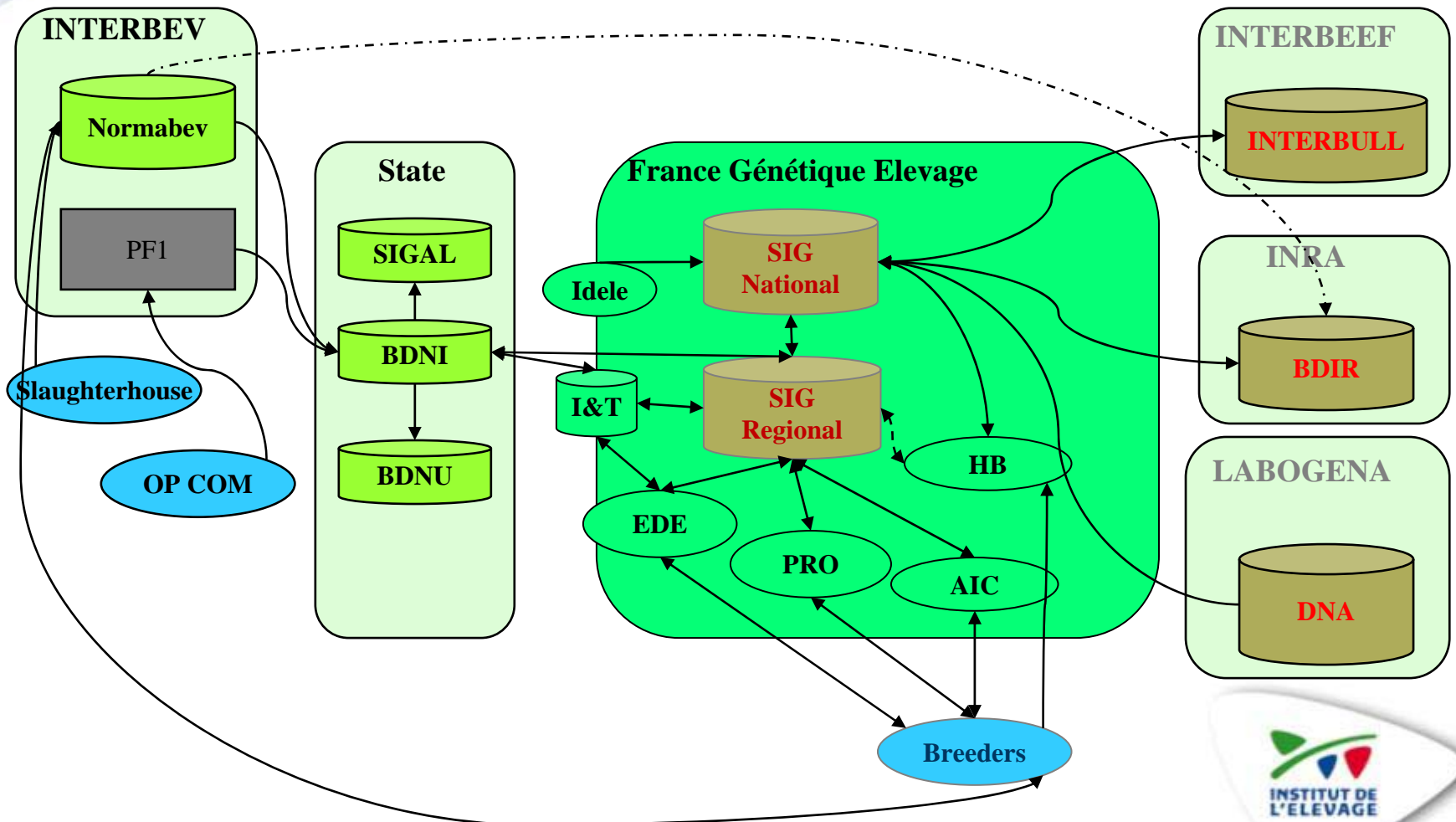
- ▶ only one database called SIG

▶ For sheep

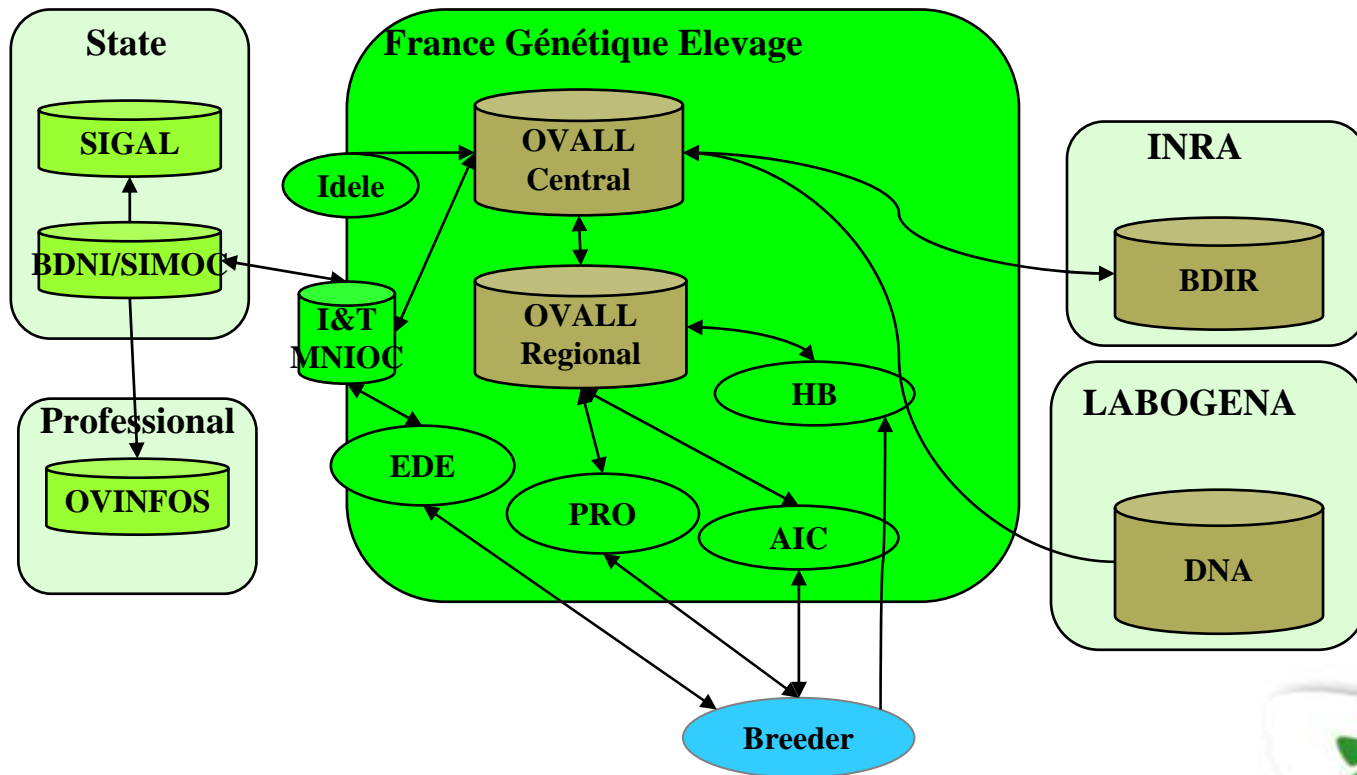
- ▶ two genetic information systems
- ▶ OVALL is the genetic information system for meat sheep



The genetic information system for cattle = SIG



The genetic information system for meat sheep = OVALL





French strategy for the future

▶ The main goals are:

1. to reform all SNIG in a common national genetic information system: in order to simplify the management and to expect to save money
2. to exchange even more with other databases: in order to valorise the maximum of the collected data which have an interest
3. to have a common system for all ruminants to exchange with all farmers: in order to develop the automatic exchanges with all breeder's software
4. to develop custom built services for hosting particular data: in order to develop new collects of data



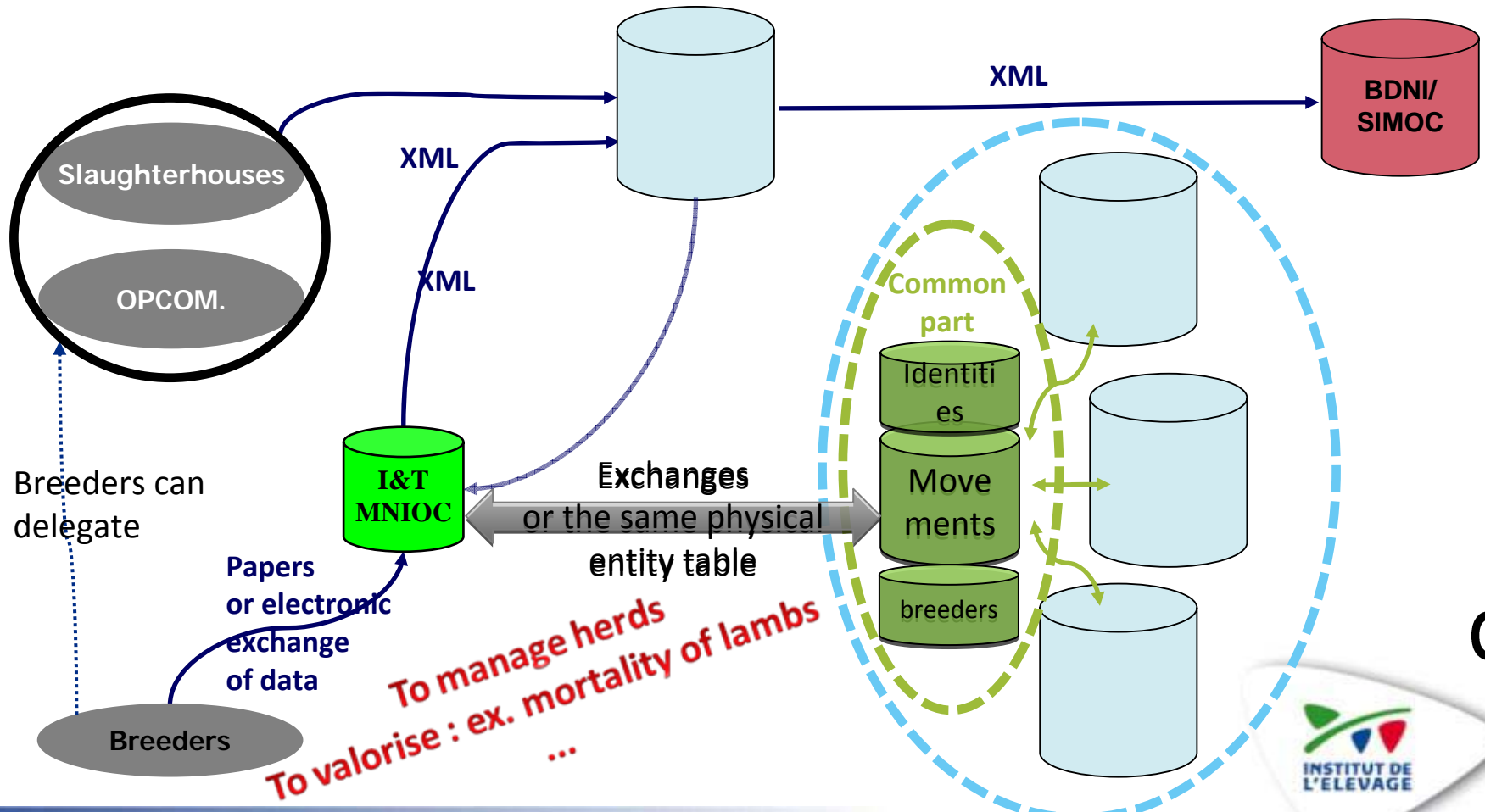
To reform all SNIG in a common genetic information system

- ▶ **All evolutions are made in order to establish later a common information system for all ruminants**
- ▶ **For example in sheep :**
 - ▶ On-station evaluation of the young rams: we created a common part between the genetic information systems of dairy sheep and OVAL. This common database use the software of OVAL but can manage the young rams of the dairy programs.
- ▶ **for example for all ruminants :**
 - ▶ Management of all EBVs: the aim is to manage for example EBVs in beef cattle and in meat sheep with the same method ...



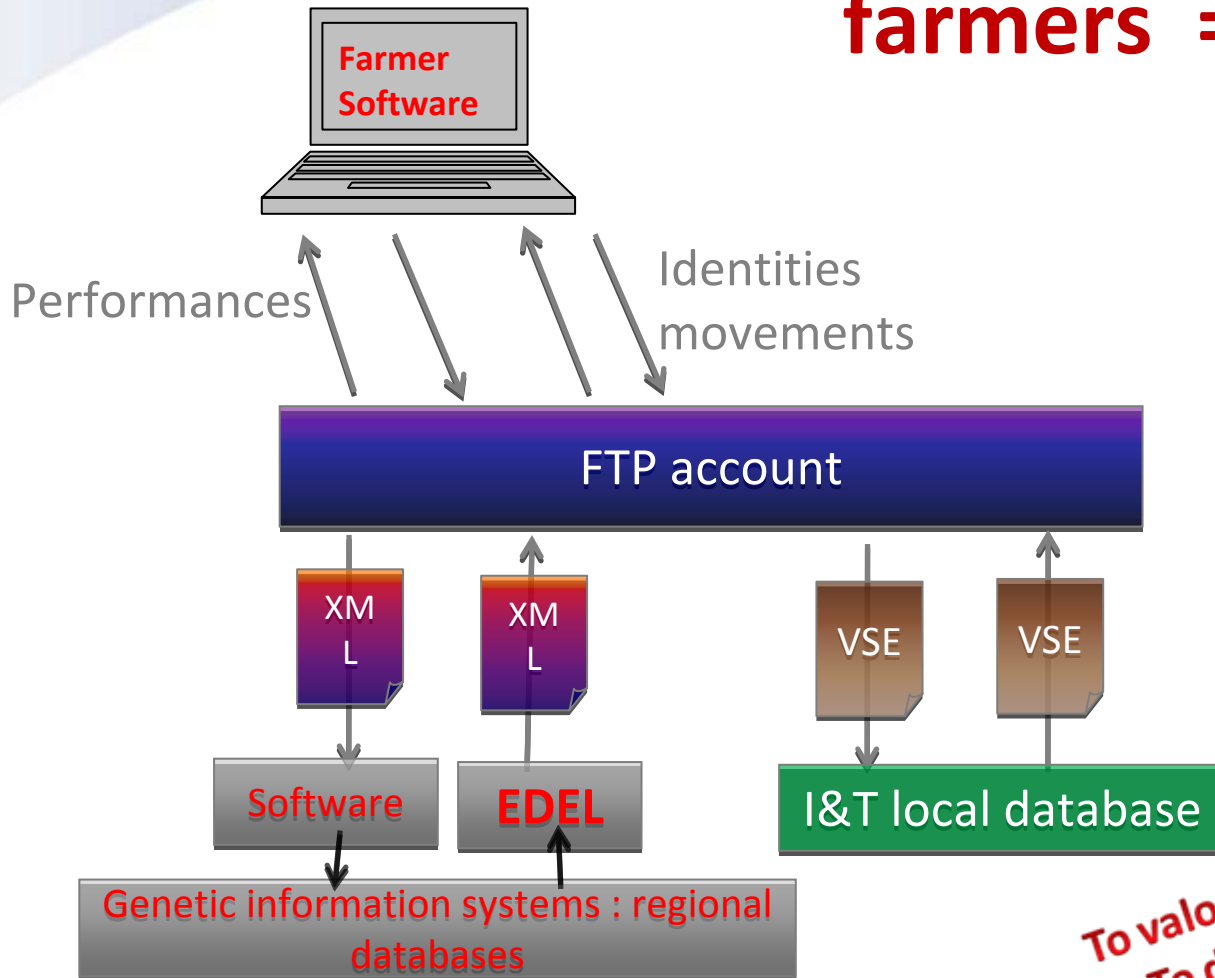
Exchange even more with other databases

▶ Example : Project in 2012 for the management of the small ruminant traceability





To have a common system to exchange with all farmers = EDEL



For the livestock management:

- Exchanges using XML standard and FTP account
- Just for the data of bovine I&T , using an old standard (VSE, in ASCII format)

*To valorise, to improve the collects,
To develop new collects of data*





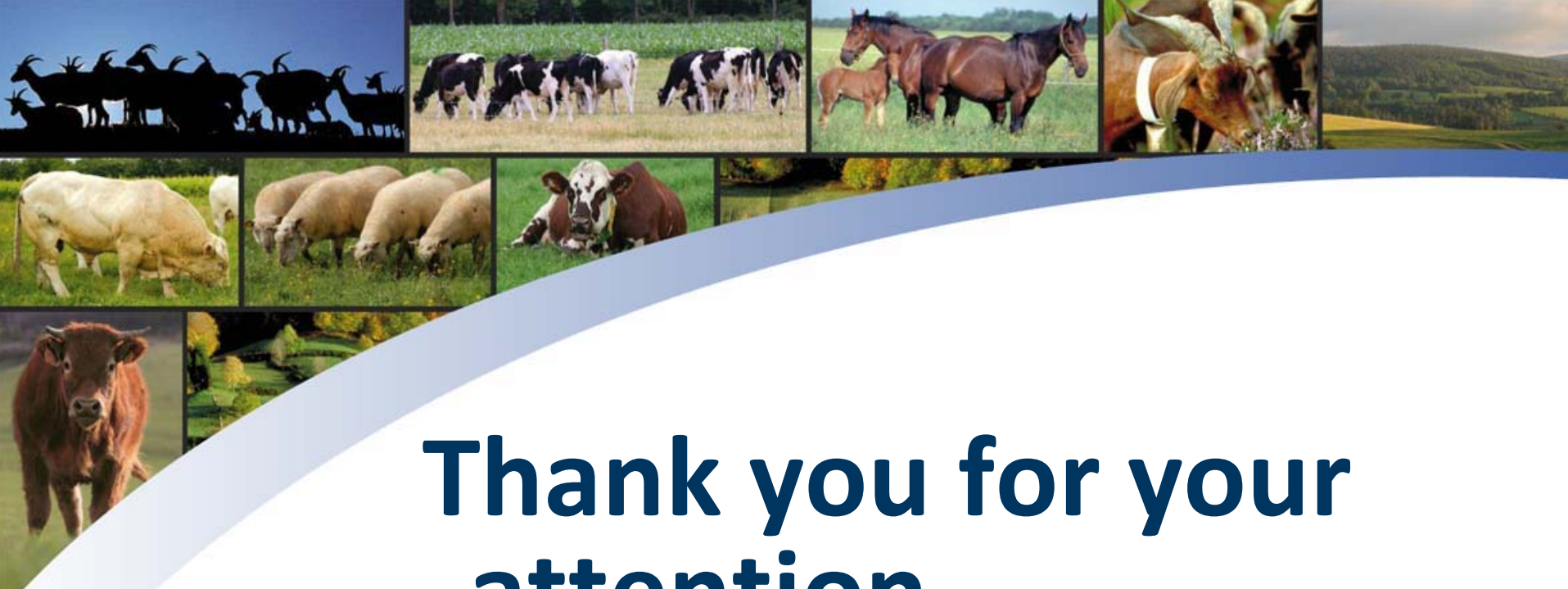
To develop custom built services for hosting particular data

- ▶ We are working about genomic evaluations
- ▶ And FGE and the French genetic organizations want to develop collection of new data
 - ▶ But all the new data are not shared between all the genetic organizations
 - ▶ So French organizations need a custom built services for hosting particular data
- ▶ **A custom built services for hosting particular data:**
 - ▶ using the same standards with the genetic information system
 - ▶ validating the data with all the data of the genetic information system
 - ▶ having a good management of access rights
 - ▶ The challenge is to facilitate the new genetic evaluations and the management of these data depending on the agreements between the organizations

Ex. sanitary data



- ▶ **The arrival of new technologies in computing or in genetics (like genomics) imposes some evolutions in the strategy of FGE**
- ▶ **French genetic organizations need to develop valorisations of all interesting data collected in other databases in order to increase the profitability**
- ▶ **To achieve this, FGE want:**
 - ▶ to develop exchanges between databases, with the breeder's software
 - ▶ to built a common genetic information system for all ruminants
 - ▶ to keep collective genetic databases , but FGE need to offer a solution to all the genetic organizations for the collect of new private data
- ▶ **Especially for the beef cattle, FGE must have a reflexion about the management of genotypes**



**Thank you for your
attention**

