A computerized consent management tool for breeders: why, how?

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Genetic improvement involves many different actors. In France:

- **Professional bodies**
  - Performance recording organizations (ECEL, OCPV)
  - Insemination agencies (EMP, ES)
  - Identification and pedigree recorders (EDE)
  - Breeding societies (OS)
  - Technical institute (idele)
  - Meat interbranch organisation (Interbev)
  - Computer regional centers (ARSOE)

- **State agencies**
  - Ministry in charge of agriculture
  - National Agronomical Research Institute (INRA)

Since 2006, most of them are clustered in an interbranch organization: "France Génétique Elevage" (FGE)
FGE is in charge of « Genetic Information System »

By extension of Interbranch agreement “on recording and management of SNIG data” (Decree of 31/10/2016)

Content: zootechnical data

- **Breeders’ data**
  - Holding identification number
  - Name
  - Address

- **Animals’ data**
  - Identity and movements
  - Reproductive events and certified filiations
  - Milk and meat performance
  - Morphological scores and qualifications
  - Genetic values
  - Public insemination males data
Context and Place of Breeder’s Consent

- A system originally designed to organize data collection and consolidation
  - Emphasis on the reliability data recording first of all to estimate sound breeding values
    - Computerized management of data collectors agreement
    - Wide data access to promote cross-valuation
  - The issue of the access to data has been left to the responsibility of local actors ([field and / or computer centers])
2006: Agricultural Guidance Act
- End of monopoly zones for animal insemination
- Creation of “France Genetique Elevage” agreed as an interbranch organization
- State’s progressive disengagement
- SNIG decree of 12 September 2007

2010s: Data, the new rising value!
- Restructuring of actors
- Data as a commercial issue
- Basic for breeder’s council (for all actors)
- Multiplication of possible sources with new equipment (robots, sensors ...)
- GENOMIC breeding values

2014: Animal performance recording open to competition

2016: EU Regulation 2016-679 “on the protection of natural persons with regard to the processing of personal data and on the free movement of such data”

Data access becomes a crucial issue!
Some regulatory information about obligation of consent

- **Special characteristics of certain data**
  - Personal data
  - Data subject to industrial and commercial secrecy

- **Application to genetic data**
  - Animal data are personal since they can be linked to a holder
  - Inventory data characterize the production of a holding and therefore belong to the industrial and commercial secrecy

These characteristics are at the origin of the obligation of consent for animal data!
Breeder’s consent on genetic data

Requirements of the SNIG decree about access to data

- The decree refers to the "Informatique et Liberté" law of 1978. By default, breeder’s consent is necessary.

In fact, collecting consents from breeders has always been a reality (via membership contracts in particular) but they are not recorded in the collective database.

France Génétique Elevage commitment: Enforcing rules on breeders’ consent for data access

- Need to know which consents have really been collected. Recording into database is the only way!

Need for an effective computerized management tool for breeder’s consent.
The new computerized consent management tool

A batch database updating module encapsulated in a Web Service

- **Batch module** ➔ Possible integration in global batch treatment for contracts recording

- **Web Service (WS) = Normalized technique to make 2 computers cooperate** ➔ Possible integration in client applications like Internet portals, PC software, private information system

➔ Adaptive and efficient with different operational collect procedures!
Consent recording

Accessible to:
- All organizations already providing data to the system *(empowered organizations)*
- Breeders

Allows:
- Providing organizations to record consents they’re granted and consent to a third-party organization
- Breeders to record consents they grant
- To all, to close consents

Mock-up of recording screen
Web Service EDEL « Consent management »

Consents and regulatory access rights consultation

- Open to organizations and breeders
  - For an organization: lists the farms from which it can access data
  - For a breeder: lists the organizations having access to his data

- Specifying the characteristics of the right:
  - Species: cattle, goat, sheep
  - Data family: performances, pedigree, insemination, embryo transplant
  - Breed
  - For which use
  - Recording modalities

Mock-up of consultation screen
Future of the tool : impact of new EU zootechnical regulation ?

- Regulation doesn’t mention data management
- Responsibility of genetic improvement is entrusted to breeding societies

Data collect and management will always be necessary and data access will still (or even more) be an issue !

- As data status (personal or commercial) will remain the same, collecting and managing consents will still be an obligation.

Even if collective organization changes, need for a modern, adaptive and efficient tool will remain !
Thank you for your attention!

We stay at your disposal.

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