



ICAR : a Professional NGO involved in standardisation

in the field of ruminants production

Introduction



- ▶ A long story of use of data in the field of animal production (ruminants)
 - ▶ 50's genetic purpose
 - ▶ 70's traceability
 - ▶ 90's input for management
 - ▶ 10's genomic selection, precision farming



Large data volume



**IDENTIFICATION
BOVINE**

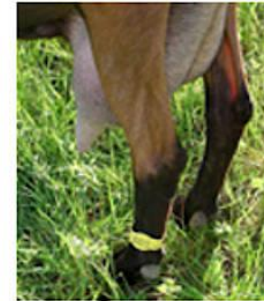


Example of the French genetic **annual** input for ruminants



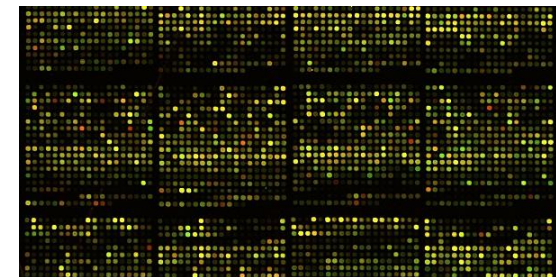
► Identification

- 31 M tags
- 20 M of cattle movements



► Performance recording (cattle)

- Since 30 years
 - 26 M milk recording/year
 - 7.2 M artificial insemination/year
 - 3.2 M certified parentage/year
- Since 2010
 - 0.1 M genotypes/year (+30% / year)
 - 10 000 to 60 000 SNP/animal



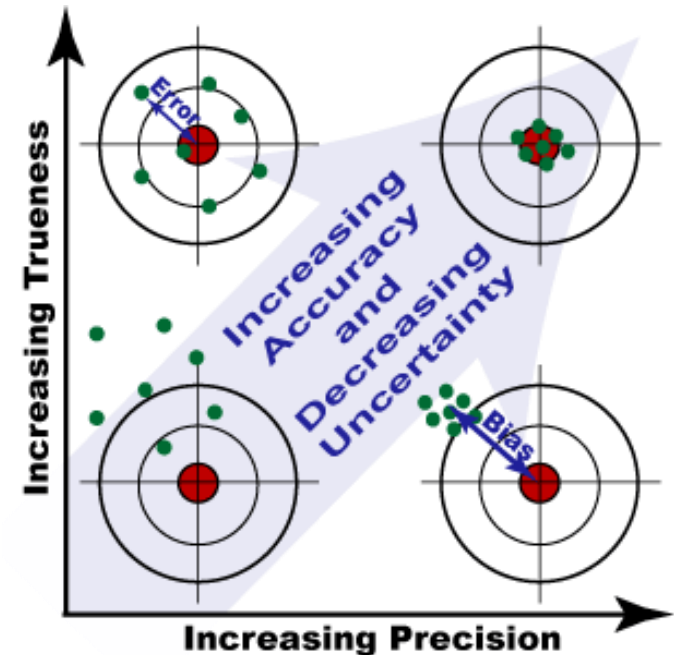
Introduction



- ▶ Support (management, estimation of breeding value...) is efficient only if raw data are accurate and unbiased



- ▶ This idea is at the basement of international NGO ICAR in the 50's
 - ▶ International Committee for animal Recording





ICAR story-timeline

1951

ICAR ESTABLISHMENT



1

1988 **ICAR
GENETIC EVALUATIONS**

2

1991
MILK METER CERTIFICATION

3

4

2001
**SERVICE - ICAR
REGISTRATION AND
LOGO PROTECTION**

2007
**ICAR
AS ISO
REGISTRATION
AUTHORITY**

5

6

2016
**ICAR NEW
STRATEGY**



**THE GLOBAL
STANDARD FOR
LIVESTOCK DATA**

SHARED STANDARDS IN

- ANIMAL IDENTIFICATION
- GENETIC EVALUATIONS
- GUIDELINES
- RFIDS DEVICES IN ID
- MILK METERS
- MILK PROFICIENCY TESTS
- GENETIC LABORATORIES

FOR A GLOBAL SYSTEM

Scope and facts



- ▶ ICAR's core products and services are
 - ▶ Guidelines for data collection and processing
 - ▶ A worldwide standard
 - ▶ Evaluation Services
 - ▶ breeding value
 - ▶ Certification Services
 - ▶ Tags and RFID for animal ID, milk meters, laboratories
 - ▶ Seminars and workshops





▶ Thank you for your attention



THE GLOBAL STANDARD
FOR LIVESTOCK DATA

Network. Guidelines. Certification.