

AIR

Interbull and Interbeef potential services for African countries

JAPIE VAN DER WESTHUIZEN

SOUTH AFRICAN STUD BOOK AND ANIMAL IMPROVEMENT ASSOCIATION



ICAR Technical bodies



Sub-Committees

Animal
Identification

Interbull

Milk Analysis

Recording
Devices

Working Groups

Animal Fibre

Data
Exchange

Animal Care

AI

Breed
Associations

Interbeef

Conformation
Recording

Milk
Recording

Developing
Countries

Genetic
Analysis

Functional
Traits

Goat
Performance

Sheep
Recording

Parentage
Recording

Brief Background



Interbull = ICAR Permanent Sub Committee

Interbeef = ICAR Working Group

Well established terms of references

Built on ICAR's Guidelines for AIR

Extensive network of scientists, bodies and networks

Main focus = international genetic evaluation of farm animals for economically important traits

Expertise give opportunity for African Countries to tap into





Interbull

Established in 1983 by ICAR, EAAP and IDF

Established the International Bull Evaluation Service

Structured cooperation platform for genetic evaluation of dairy breeds worldwide

1993 MACE service (currently GMACE for Holstein)

Essential asset of the animal breeding and genetics community

81 populations of 6 breed groups, representing 32 countries from all continents, 40 different traits

Unique network of industry and academy, science and market, exporters and importers, partners and competitors



SA STAMBOEK
STUD BOOK



Interbull

Major transformation in Dairy genetics due to the use of genomic information

Interbull provides the forum and the means for both the scientific community and the dairy sector to develop solutions for the challenges ahead.

Interbull is made by its collaborators and for its collaborators

- Co-responsible for the achievements





Interbull objectives (terms of reference)

Facilitating communication

Documenting genetic evaluation systems

Facilitating international genetic evaluation

Providing international genetic evaluation services to members

Providing advisory services to members

Coordinating international research

Publication

Formation of technical working groups

Operating the Interbull Centre.





Interbeef

Experience demonstrated international collaboration in cattle breeding can be very successful.

Created a forum for international genetic evaluation services & share research results, discuss operational experiences & tackle a technology challenges

Help beef producers make more informed decisions on importation and possible exports of seedstock by fair comparison of genetic merit .

Challenges faced by many countries and beef cattle populations

Exporters of seedstock need information to identify beef cattle genetics desired in particular animal populations.

Trade potentially a tool for enabling beef cattle farmers to address problems related to comparing beef cattle across international borders.



SA STAMBOEK
STUD BOOK



Interbeef

Interbeef's success is based on a high level of data exchange:

- pedigrees,
- phenotypes, in due course,
- genotypes.

Data sharing under the Interbeef model operate efficiently and protect the interests of the service users.

Interbull Centre provides the infrastructure and pivot point for services.



Potential for services to African countries



Knowledge base on basic and advanced **application of AIR systems**, suitable for the Continent and especially individual countries.

Application of the ICAR and especially the latest FAO **guidelines** on the application of AIR, but fitted to the needs and resource limitations of individual countries.

General **knowledge base** on animal breeding and genetics, including application of molecular genetics, such as genomics.



Potential for services to African countries



Setting up and application of **breeding objectives** within constraints of natural resources & economic realities of individual countries.

Sourcing appropriate genotypes (individual animals) suitable for the physical and economic environments, based on the setting of objectives and global diversity of genetic resources.

Setting up appropriate schedules & plans to incorporate breeds and other populations into the **regular services** of Interbull and Interbeef.

Assistance in **access to Genomic Profiles** suitable for the establishment of reference populations on the Continent.



THANK YOU



Group questions

1. What are your immediate requirements for AIR
2. How will this integrate in your current systems/database
3. Where can you benefit from ICAR/Interbull/Interbeef interaction

JAPIE VAN DER WESTHUIZEN

JAPIE@STUDBOOK.CO.ZA

WWW.STUDBOOK.CO.ZA

WWW.LOGIX.ORG.ZA

WWW.SADAIRYBULLS.COM

