Interbeef Update.

Interbeef – Overview.

• A sub-group of ICAR.
• Objective; Developing and promoting the national and international evaluation of beef cattle.
• Governance; Working Group and Technical Group.
• Operations; ICAR contracts Interbull centre for the provision of services.
• Status; Currently 13 members and growing!

Pedigree-38M records  $\rightarrow$  Database
Live Weight-10M records  $\rightarrow$  Database
Calving Traits-33M records  $\rightarrow$  Database

8M estimated breeding values & reliabilities published

In 2020, Interbeef provided official international breeding values across 13 countries and 5 beef breeds.

Aberdeen-Angus  Limousin  Charolais  Simmental  Hereford
Research undertaken by members; Ireland, Germany, Czech Rep, Netherlands, Australia & Interbull Centre.

Utilizing the Interbull structure (co-ordination, phenotypes, pedigrees, genotypes).

Effective and efficient way to develop new services.
Highlights for 2020.

- New members => Latvia & Slovenia.
- New fee structure.
- Expansion of routine services => New trait/breed/country combinations.
- Interbeef webinar (Dec 2020); Working together for international evaluations of beef cattle.
  - Pilot evaluation service.

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**Interbeef Country Pilot run**

- **Simple** assumed genetic correlation with other countries
- **Fast** calendar defined with the country
- **Cheap** 1000€ per breed-trait combination
- **Valuable** Estimate the possible gain of international evaluation on EBV and reliabilities (non-publishable)

=> Opportunity to **try the Interbeef process**

"you try before you buy"
Plans for 2021+

- New members => Italy & Estonia.
- Global Hereford project with ABRI-Breedplan.
- New carcass evaluations.
  - Beef from the dairy herd.
- GenTore (EU funded project).
  - New age at slaughter.
- New female fertility evaluations.
- Animal data exchange platform.
  - Exchange ID, pedigree, performance & genotypes.
- International semen exchange => genetic gain.
- Preparation for International genomic evaluations.

Inclusion of genomic data in Interbeef evaluations

Renzo Bonifazi, J. Vandenplas, J. ten Napel,
R. F. Veerkamp, M. P. L. Calus

- R&D nearing completion.
- LM breed, 7 countries, 330k 17k genotypes.
- Goal of bring forward as a routine service 2022+
**INTERBEEF TODAY**

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<tr>
<th>Standards</th>
<th>Sets guidelines for the identification, recording and genetic evaluation of beef cattle.</th>
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<tr>
<td>Combined data repository</td>
<td>Uses a shared platform (the Interbull Data Exchange Area) to ensure a fully automated validation process of each member’s data.</td>
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<td>Evaluation methods</td>
<td>Provides a support network for members that helps ensure the latest developments in genetic evaluation methods are used.</td>
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<td>Validation and traits</td>
<td>Offers a pilot and test run service to incorporate new members, breeds and traits.</td>
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<td>Multi-country comparisons</td>
<td>Provides country specific unbiased results (twice per year), to help enhance national and international beef breeding programs.</td>
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<td>Sharing knowledge</td>
<td>Provides members with a vibrant, interactive forum for the sharing of knowledge ideas. This includes at least two meetings per year.</td>
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- See ICAR & Interbull websites for more information (brochure, reports & seminars...).
- Come join a vibrant, growing group of people/orgs with a common purpose => national and international beef (& dairy beef!) improvement.