











Integration of Interbeef EBVs in the Irish evaluation

ECAC conference - 13/05/2021



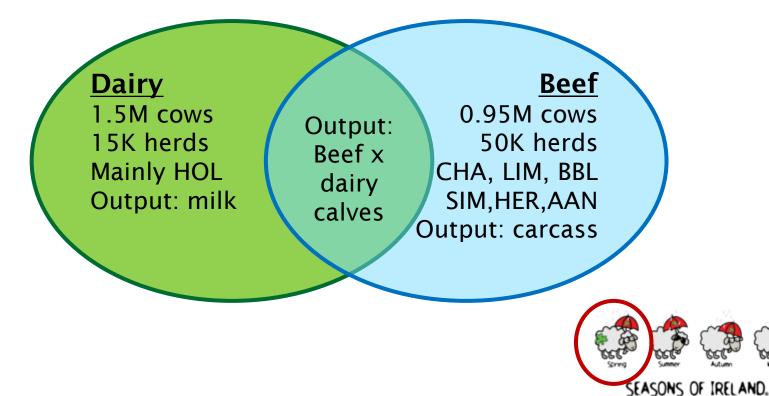
Thierry Pabiou - ICBF Ireland





Euroopa Maaelu Arengu Põllumajandusfond: Euroopa investeeringud maapiirkondadesse







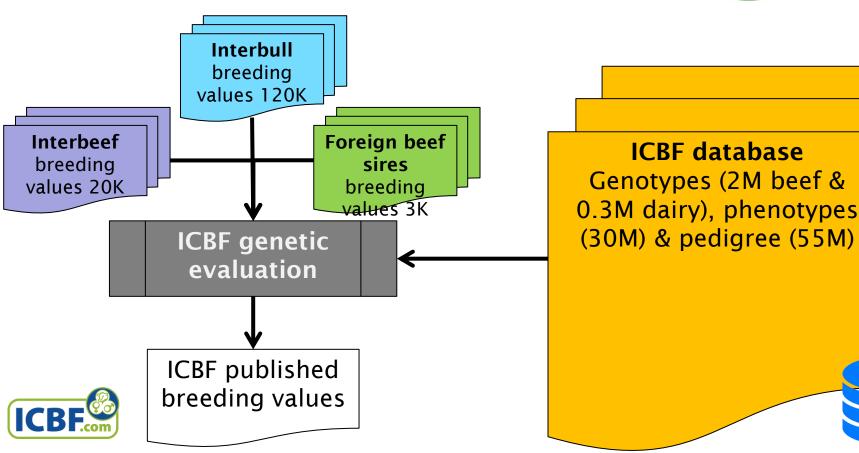






Euroopa investeeringud maapiirkondadesse













aapiirkondadess

- Give Irish farmers access to the best genetics
 - Integrating Interbeef breeding values (and all foreign data) into the national evaluation







Published method





Euroopa Maaelu Arengu Pollumaiandusfond: Euroopa investeeringud maapiirkondadesse



Animal Breeding and Genetics

J. Anim, Breed, Genet, ISSN 0931-2668

ORIGINAL ARTICLE

An integration of external information for foreign stallions into the Belgian genetic evaluation for jumping h Vandenplas et al. Genetics Selection Evolution 2014, 46:59

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RESEARCH

http://www.gsejournal.org/content/46/1/59

Contents list Unified method to integrate and blend several, potentially related, sources of information for Live journal homepage genetic evaluation

Review article

Strategies for comparing and combining amerent genetic and genomic evaluations: A review



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Open Access



Carcass data

'OSS





- Interbeef carcass pilot evaluation for Limousine
- October 2020
 - CHE 94K beef & dairy-cross
 - DFS 215K beef
 - GBR 89K beef & dairy-cross
 - IRL 900K beef &











- \cdot Creating pseudo-phenotypes from EBVs
 - DRP (DeRegressed Proof) = Parent Average +(EBV-PA)/rel(EBV|PA)
- · Creating weighing factor from reliability
 - **ERC** (Equivalent Record Contribution) build from pedigree and h^2 can be computes as $\lambda^*(rel/(1-rel.))$











Interbeef evaluation

- Computed DRP and ERC

Reduced national evaluation

- Compute DRP0 and ERC0

Compute DRP* (and ERC*) (free of x2 counting) for ~9K foreign sires with phenotypes and ERC* >0.5

Blend DRP* (weighed by ERC*) into reduced national evaluation



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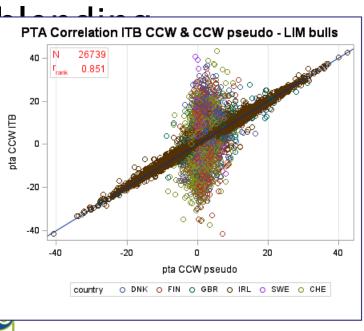


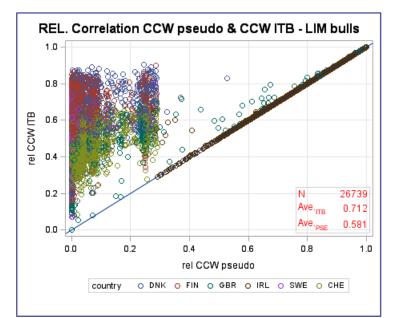


Pollumaiandusfond Furnona investeeringu naapiirkondadess



Carcass weight on IRL scale* before





*Limousin bulls with 10+ desc. in Intorboof



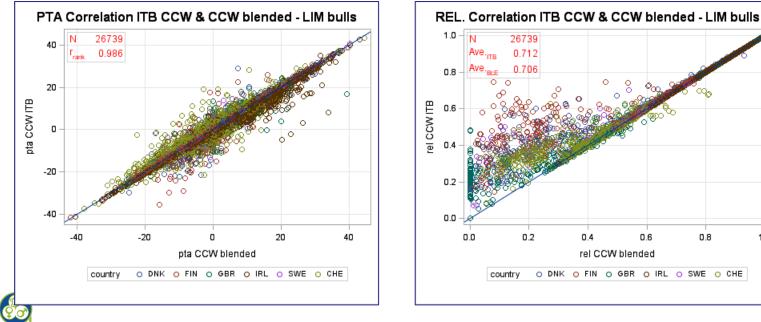




Euroopa Maaelu Arengu Põllumajandusfond: Euroopa investeeringud maapiirkondadesse

1.0

· Carcass weight on IRL scale* after blending



*Limousin bulls with 10+ desc. in









 9K sires with international information added to the national evaluation for carcass

- Increased reliability

- Integrating foreign data as DRP is efficient
 - Foreign data impact filters down to progenies via evaluation

