GMACE



GMACE

- 2014 (1st half)
 - Fine tuning of methodology
 - Implementation runs
- 2014 starting in August
 - 1st routine run
 - Traits: same portfolio as MACE
 - Receipients of MACE results are required to make publicly available all results (traits) that they receive from Interbull

- No requirement to calculate Total Merit Index





Genomic Multiple Across Country Evaluation (GMACE)	December 2014
Countries	11
Evaluation breeds	1
Country-breed-trait combinations	331
Breed-trait evaluations	38
Submitted national estimated breeding values	14,975,470
Qualified national estimated breeding values	12,171,547
Calculated international estimated breeding values	135,578,888
Distributed international estimated breeding values	6,378,848



GMACE Rules

- Prerequisits for participation
 - a. National genomic system Interbull validated
 - b. National genomic evaluations approved in a test run
- In early 2014 rules for GMACE participation (re)defined
- Note: with SNP data multiple entries of gEBVs for the same bull possible
- Introduction of BCC information (= Bull controling country)
 - BCC determines if a bull can be incorporated and disseminated via GMACE
 - Intention:
 - Tool to decide from when on a (very young) bull gets GMACE EBVs on international scales, but one time in ever in
 - Filter for AI studs that do not want to have GEBVs for all of their bulls disseminated

BCC was used by US and Canada for the implementation runs and routine runs until December 2014

- In early runs a lot of conflicts → multiple countries claimed BCC for an individual bull
 - IB SC decided in May 2014 in Berlin, that in case of conflicts one country with a BCC = publishable overrules the BCC = non publishable



- ◆ Until december 2014 → DFS, DEU, NLD, FRA (multiple entries), POL, ITA, UK (also with some US bulls), AUS, BEL
- From April 2015 onwards:
 - + Spain, + Canada
- Specific case US
- ◆ Unlike CDN CDCB did not participate in test runs any more
 → no gEBVs from CDCB included
 BUT
 US AI bulls have gEBVs from CAN, ITA and UK
- CDN was assigned for some US bulls with a publishable = yes
- BUT only few US bulls
 - Concern has been expressed towards Interbull that they could have been selectively chosen
 - Good in GMACE, poor with use of SNP data in foreign evaluation systems