Reporting breed composition
Interbull Centre
Aim

- Accommodate in the existing system of pedigrees the possibility to consider additional information about breed composition existing at the national databases.
- Find an operational solution that preserves the authority of the national centers over pedigrees and keeps data consistency on the multiuser database.

Interbeef WG, Prague
Proposal

- Add "fake" parent IDs to the founder animals according to the national recorded breed composition in the Interbeef pedigree database.
- Fake ancestors would solely be used to estimate breed composition of the founder animals.

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How to build a fake ID:

- **BRD** – breed
- **CNT** – country providing information
- **S** – sex (M, F)
- **FAKE** – mandatory flag indicating this is not a real animal
- **00000000** – 8 digits numeric ID

Nov-13

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Example 1 – Founder known to be 50% CHA and 50% HOL

- **Current pedigree record:**
  601 XXXIRLM123456789012 UUUUUUUUUUUUUUUUUUU UUUUUUUUUUUUUUUUUUU UUUU

- **Including fake parents to the pedigree record:**
  601 XXXIRLM123456789012 CHAIRLMAKE0000000 HOLIRLFAKE00000001

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Example 2 – Founder known to be 25% LIM, 25% CHA and 50% SIM

- **Current pedigree record:**
  601 XXXIRLM123456789013 UUUUUUUUUUUUUUUUUUU UUUUUUUUUUUUUUUUUUU UUU

- **Including fake parents to the pedigree record:**
  601 XXXIRLM123456789013 SIMIRLMFAKE00000001 XXXIRLFAKE00000001
  601 XXXIRLF fake00000001 CHAIRLMFAKE00000002 LIMIRLFAKE00000001

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Rules for adding fake parents into the Interbeef pedigree

1. Only founder animals (unknown parents) can be assigned fake parents
2. Founders with a reported breed and without fake parents will be treated as purebred
3. The same 8 digits numerical part of the fake parent ID cannot be used for more than one founder animal (same fake parent cannot have more than 1 progeny)
4. National centers can only create fake IDs with their own country code
5. National centers can only add fake parents to founder animals over which they are the authoritative organization

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Rules for using fake parents IDs

1. Fake parents will be used for
   a. Determining breed composition
   b. Additional criteria for phantom groups
2. Fake parents will be excluded from pedigree extraction prior to genetic evaluations
3. Fake parents will show up in the animal query with a warning message
4. Even animals that do not have breed code=XXX will have their breed composition determined from the pedigree

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