



IRISH CATTLE BREEDING FEDERATION

Inclusion of Xbred in InterBeef genetic evaluations



Research proposal prepared by ICBF genetic team
for InterBeef Meeting 21/11/2013



Background

- InterBeef evaluations
 - 2 breeds LIM CHA
 - Pure breed genetic evaluations
- Some countries may have data on commercial animals
 - IRL : 60% weaning weight records are commercial data

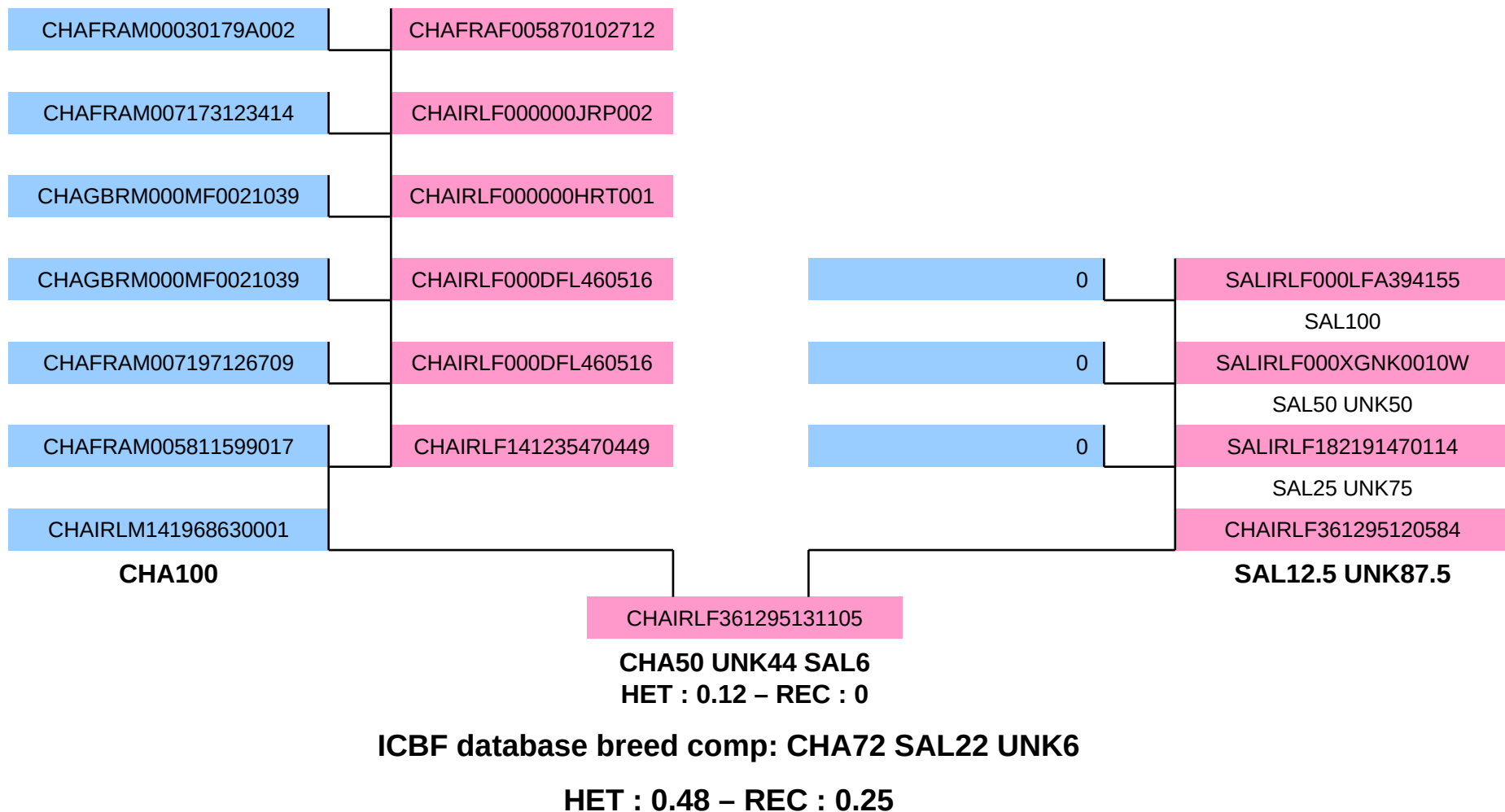
Integration of Xbred data

- Major steps
 1. How to store Xbred info in IDEA
 2. Uploading Xbred data
 3. Re-estimation of parameters involving Ireland (& others)
 4. Adapting InterBeef model
 - Correcting for het. & rec.
 - Correcting for breed composition

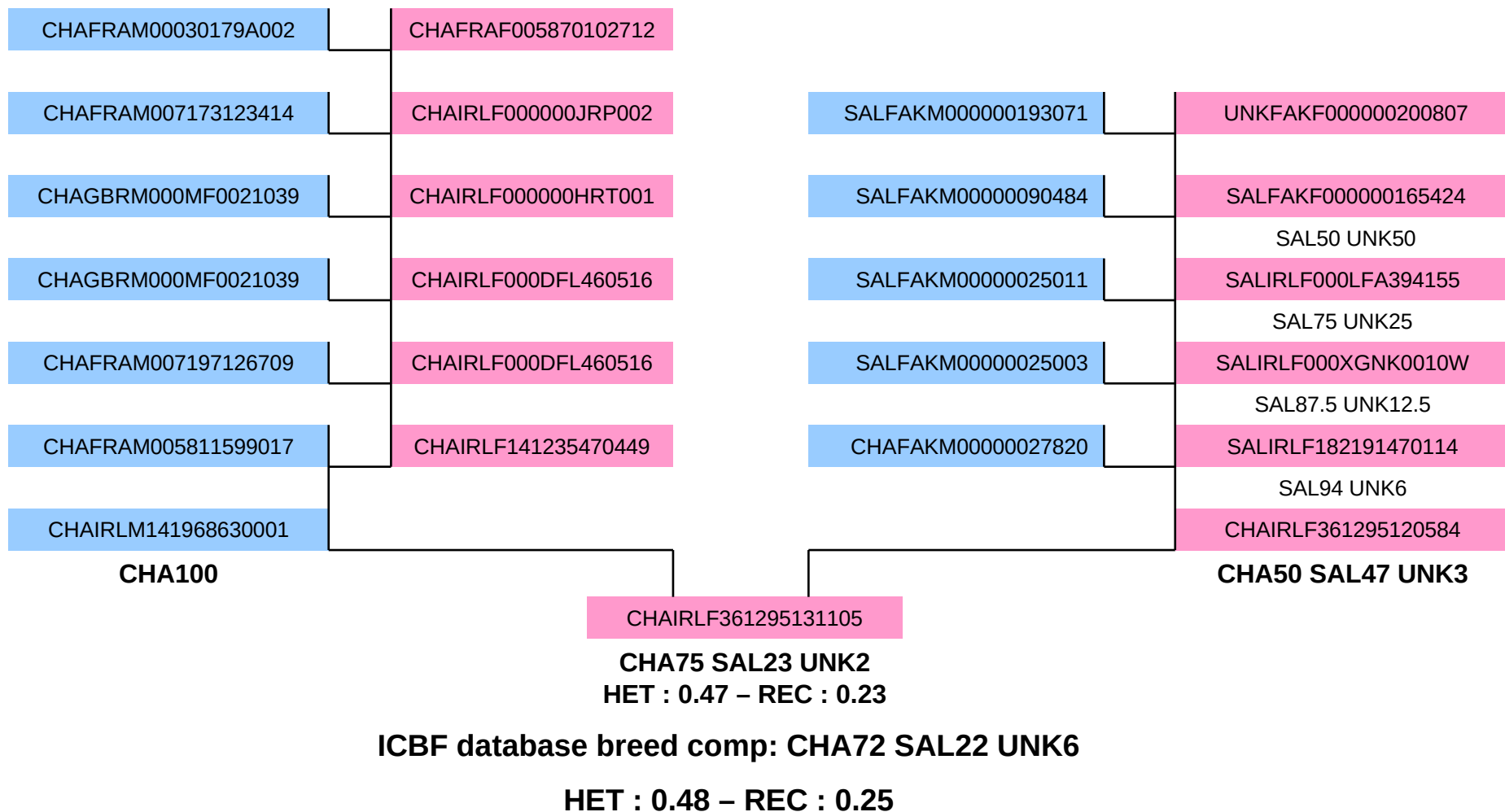
Xbred info. Challenge

- Need to know the breed composition
 - het. & rec. coefficients
 - Phantom pedigree grouping
- At IDEA level:
 - Using current IDEA info
 - Tested in 03/2013 – not enough details in international tag
 - Create breed composition table
 - New file exchange logistic
 - Expand Xbred founders pedigree
 - Creating pseudo-ancestors for Xbred founders

Creating pseudo-ancestors 1/2



Creating pseudo-ancestors 2/2



Handling Xbred info.

- Building Xbred founders back-pedigree seem to be working
 - Will help in allocating animals to phantom groups
 - Currently running het & rec calculations
 - Comparison with national estimates
 - A note will summarise the work done

Future plan : now $\Rightarrow$ spring 2014

- Finish testing the breed composition process by creating back-ancestry for Xbred founders (IRL)
- Validate international tag format for dummy ancestors (InterBeef + groups)
- Upload Xbred data + pedigree (IRL)
- Run new set of genetic parameters for IRL with Xbred records (IRL)