



## French Report

INTERBEEF WG - May 28th, 2012

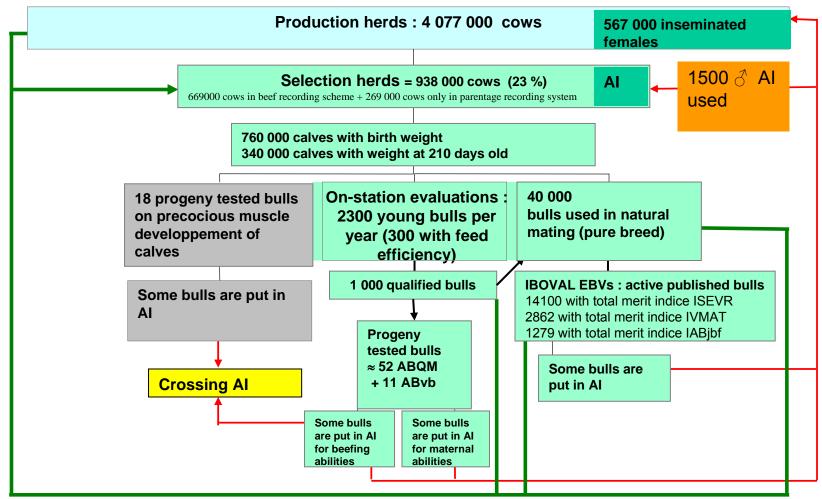






## Overview of the French beef cattle program







## IBOVAL – pre-weaning evaluations (E. Venot)



# Traits and EBVs

- Calving ease (maternal effect of calving conditions : AVel) and birth conditions (direct effects of BW and calving conditions : IFNAIS)
- Weaning weight at 210d : direct effect (CRsev), maternal effect (ALait)
- Morphology: muscular development (DMsev), skeletal developement (DSsev) and Bone slimness (FOSsev)
- Total merit indices: ISEVR (production) and IVMAT (herd replacement)

## What's new ?

- New EBV for Limousine : calving ease (AVel) since 2012
- Evolution of the model for the birth data in Salers
- New chain of calculation : end of automation of the process to product all EBVs
- Bonne slimness (FOSsev): new EBVs for Blonde d'Aquitaine, Gasconne and Bazadaise in 2013



### IBOVAL – post-weaning evaluations (MN Fouilloux)



## Traits and EBVs

- Heifer growth (CRpsf): weight at 24 months,
   BLUP multitraits model with W210d, W12m, W18m and W24m
   Charolais, Blonde, Maine Anjou (ROU)
- Commercial carcass traits: young bulls at slaughter
   Carcass weight and slaughter age in a composite index called
   ICRCjbf and carcass conformation score (CONFjbf).
   Total merit economic index = IABjbf
   BLUP multitraits model with weaning traits
   Charolais, Maine Anjou, Blonde, Limousine, Salers and Parthenaise

# What's new ?

- Since 2011: new database NORMABEV (5 millions carcass data per year)
- More breeds involved: Parthenaise for heifer growth in 2013,
   Salers for carcass traits since 2012
- Other beef productions considered: a study is started about valorisation of veal production data
- Heifer morphology around 2 years in 2013: Muscular Development , Skeletal Development , Functional abilities



### New EBVs for the French breeders



#### Productive life

- · Preliminary studies have been done :
  - Fertility: first Al success for heifers, and for primiparous
  - · Reproductive efficiency: number of calvings at a given age
  - Longevity for hardy breeds

#### Docility

- Two traits: Number of movements during calf weighing and calf behavior towards human during morphological scoring
- More than 120 persons trained to collect during calf weighing and morphological scoring: first collects in 2012

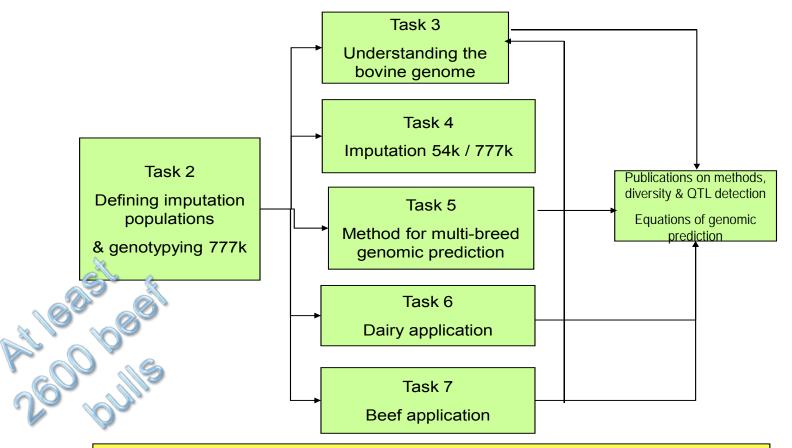
### Genomic: the GeMBAL project

- Constitution of founder populations in order to impute medium density genotypes (54K) into high density (777K) for all the 19
   French breeds (beef and dairy cattle)
- Development of tools, methodology and applications for multibreed genomic prediction : on all traits recording on farm for cattle
- Better knowledge of the structure of the bovine genome : characterization of bovine diversity and traces of selection



## Genomic: tasks of the GeMBAL project





Task 1

Coordination across tasks and partners, reports & steering comittee meetings



## Numbers of genotypes (777K chip) – task 2



Beef cattle Breeds	AUB	SAL 23	BAZ 24	LIM 34	CHA 38	ROU 41	PAR	GAS	BLA 79	тот
Number of genotypes	254	245	87	447	666	148	299	163		2636

Dairy cattle Breeds	АВО	RED	BWS	BRE	TAR	SIM	MON	NOR	vos	FLA	HOL	тот
Number of genotypes	199	41	99	29	181	124	527	532	53	42	241	2068
+ Eurogenomics											541	