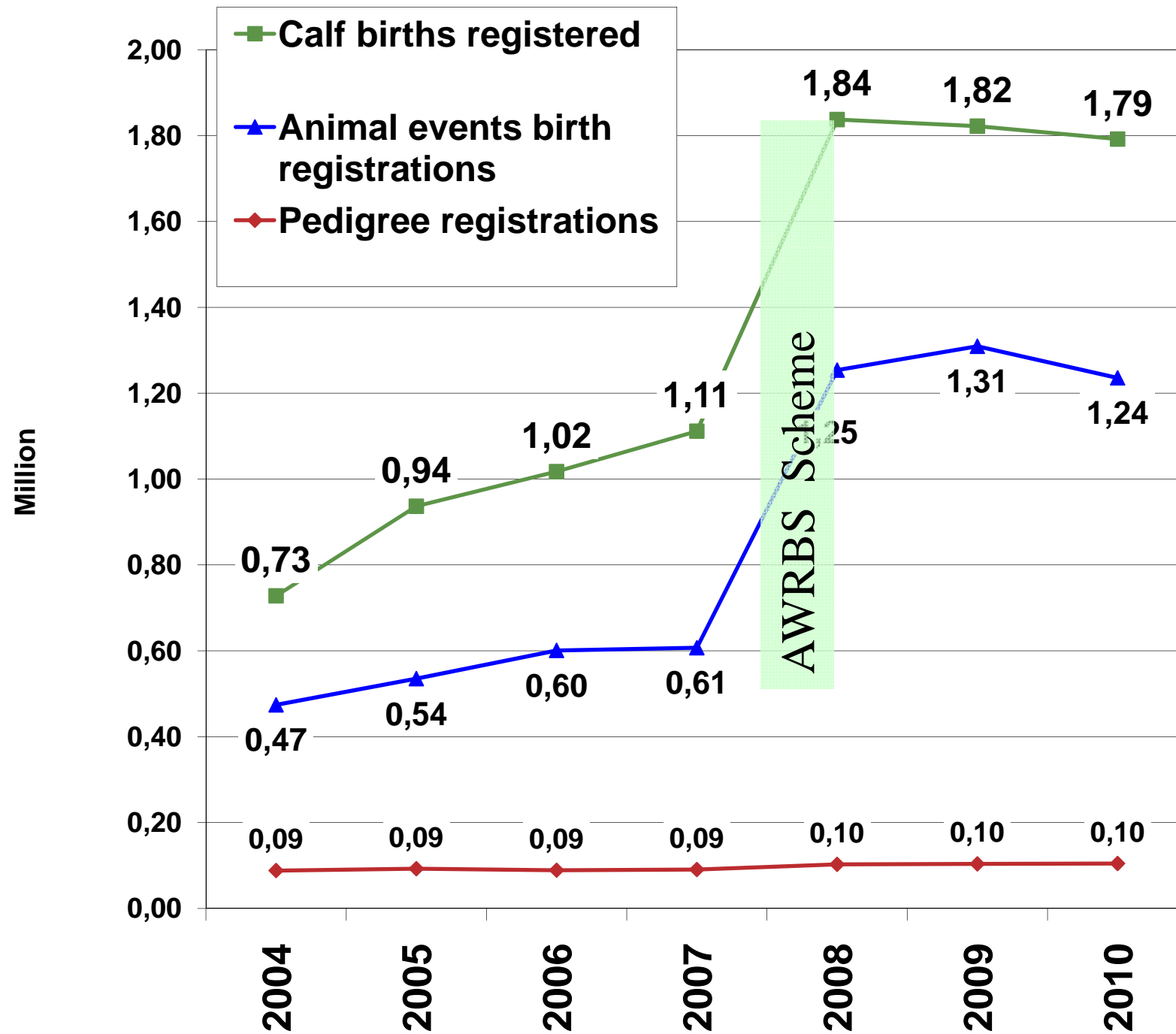


# Country update : Ireland

## On recent development in beef breeding

Thierry Pabiou  
(Genetic evaluation group - ICBF)

Presentation to InterBeef working group  
Monday 20<sup>th</sup> June 2011



# Overview Beef Evaluation

- Across breeds
- Run 4 times a year
- 4 modules
  - Calving ⇔ *scores, mortality, gest. length*
  - Beef ⇔ *weights, ccse weight, EUROP grades*
  - Fertility ⇔ *cal. Interval, survival, age 1<sup>st</sup> cal.*
  - Linears ⇔ *7 traits*

# Selection criteria

<b>AI Code:</b>	PDT	<b>Breed:</b>	LM (100%)	<b>Sire:</b>	<a href="#">MISTRAL / 1996010522</a>
<b>Animal Name:</b>	PRESIDENT	<b>Owner:</b>	NATIONAL CATTLE BREEDING CNTR	<b>Dam:</b>	GIROLLE / 4691110636
<b>Date of Birth:</b>	12-MAY-1999	<b>Date of Evaluation:</b>	Apr 2011	<b>Pedigree Status:</b>	<a href="#">PED</a>
<b>National ID:</b>				<b>MGS:</b>	<a href="#">CHEVRON / FR2387052222</a>
<b>International ID:</b>	LMSFRAM004633937476	<input type="button" value="Euro-star Index"/> <input type="button" value="Calving Traits"/> <input type="button" value="Weanling"/> <input type="button" value="Beef Carcass"/> <input type="button" value="Milk"/>			
		<input type="button" value="Linear Type"/> <input type="button" value="Pedigree"/> <input type="button" value="Fertility"/> <input type="button" value="Prev Eval"/>			

% Rank	Star Rating (within breed)	Index and Traits	€uro-Value	Data Reliability	Star Rating (across breed)	% Rank
62%	★★★★★	<b>Suckler Beef Value (SBV)</b>	€74	66%	★★★★★	61%
80%	★★★★★	Weanling Export	€60	65%	★★★★★	61%
96%	★★★★★	Beef Carcass	€107	84%	★★★★★	84%
35%	★★	Daughter Fertility	€-14	23%	★★	27%
1%	★	Daughter Milk	€-57	27%	★★	26%
<b>Other Key Traits</b>						
15%	★	Calving Difficulty (% 3 or 4)	6.86%	90%	★★	33%
9%	★	Gestation Length (Days)	4.67 Day(s)	14%	★	3%
92%	★★★★★	Docility (1-5 score)	0.04	78%	★★★★★	70%

Data Reliability: 40% - 60% = Average 20 - 40% = Below Average < 20% = Poor

# Emphasis on farmer recorded traits

- Animal Welfare, Recording, and Breeding Scheme
  - [...] sire, calf quality, calf survival, etc.
- Voluntary recording
  - Cow milkability



In place since 2008

# More health data


- TB resistance, Liver fluke...
- Vet systems...pilot project to record events & treatments
- ICBF ↔ dbase infrastructure  
Health Ireland [www.animalsd.ie](http://www.animalsd.ie)



Current research

# Making use of price recording

- Auction live-animal prices
  - Calves
  - Weanling
  - Post-weanlings
- Huge data
  - Around 70 places
  - 7 million raw prices on commercial cattle mainly

A green starburst graphic with multiple points, containing text.

Weanling prices  
used in GE  
since 2011

*McHugh et al. 2011 JAS*

# Using digital images



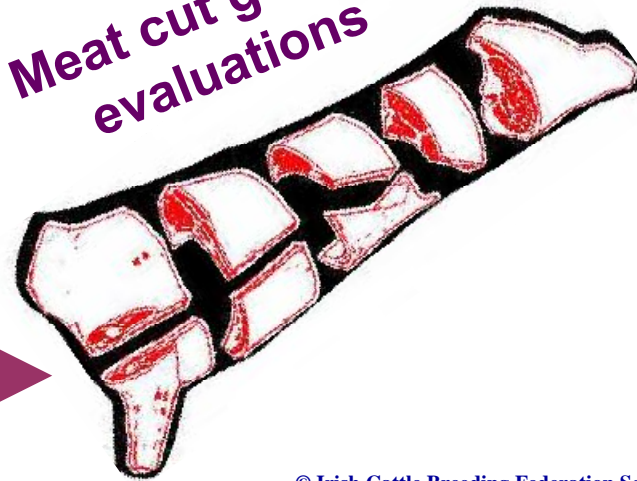
E+V grading machine

~ 428 variables

Prototype eval. in fall 2011

bf	Fat
	3
0	4
P	5

Meat cut genetic evaluations





# Genotyping for GS

Breed	Genotyped
AA	39
BB	38
CH	117
HE	40
LM	128
SIM	58
<b>Total</b>	<b>420</b>
<b>HF</b>	<b>+471</b>

- 736 (mainly) beef AI bulls with semen DNA
- Funded by more
- genotyping HD



# Conclusion

- Search for new phenotypes of interest
  - Making use of other database
  - Emphasis on farmer recorded traits
- New research
  - Health
  - GS