

IRISH CATTLE BREEDING FEDERATION

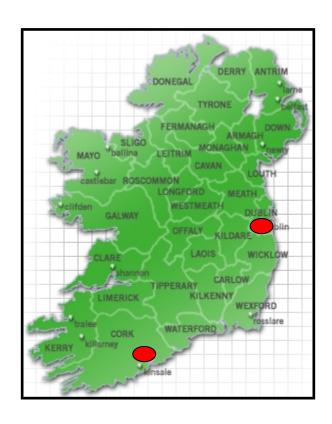
Using integrated solutions to achieve high levels of performance recording in Beef Herds

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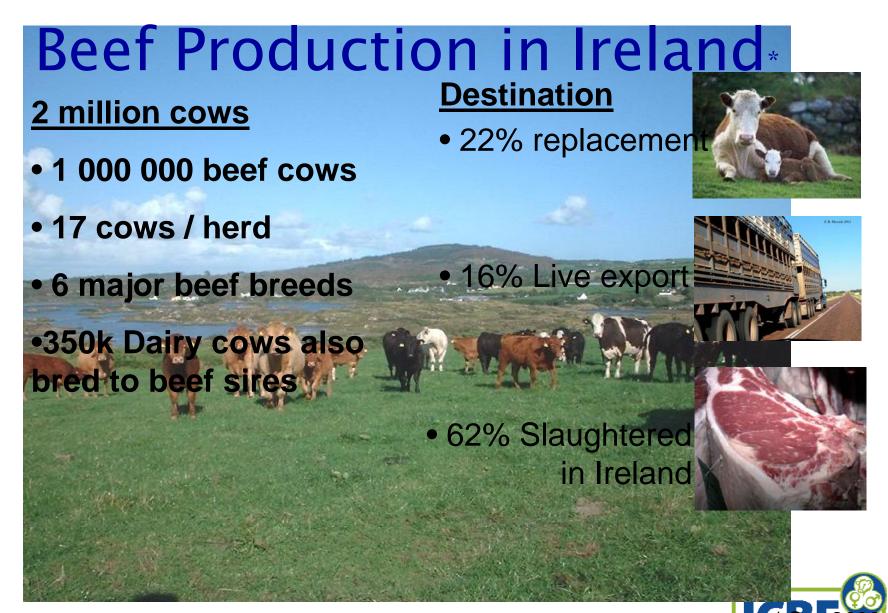
2nd June 2010 Riga, Latvia



A quick look on the map







Key Components To Successful Integration

- There are a number of key components to achieving high levels of performance recording falling into three categories
 - Systems
 - Processes
 - Culture of cooperation across the industry
- Inevitably, success is dependent on synergy between the systems and processes, which is supported by the appropriate culture.



Key Components To Successful Integration

- Ireland's Dept of Agriculture Systems
- Setting up of ICBF and the cattle breeding database
- Animal Events recording
- Animal Welfare, Recording and Breeding Scheme
- A culture of sharing and cooperation



Systems - Dept of Agriculture (DAFF)

- In 1996, the concept of a lifetime identifier (tag) was introduced in Ireland. This would allow a multitude of identifiers of animals to be replaced over time by one form of identification
- The identification and registration system was complimented by a comprehensive animal movement system (CMMS)
- These systems were very well implemented in Ireland by DAFF and its agents, and have since been fundamental to the integration of data across systems.
- These systems are the subject of on-going improvement programmes under the Animal Identification and Movement System (AIM).
- DAFF have facilitated the use of the data for cattle breeding purposes

Systems - Central Cattle Breeding Database

- In 1998, Irish Cattle Breeding Federation (ICBF), with Dr.
 Brian Wickham as chief executive was set up
- Having set up the organisation, the first main task was to set up the central cattle breeding database
- This was a significant task, with data and processes from over 30 different sources needing to be consolidated
- The following slide gives a geographical overview of those shareholders involved in the set-up of ICBF.



One Database, Many Partners less duplication and cost for farmers

AI Munster AI

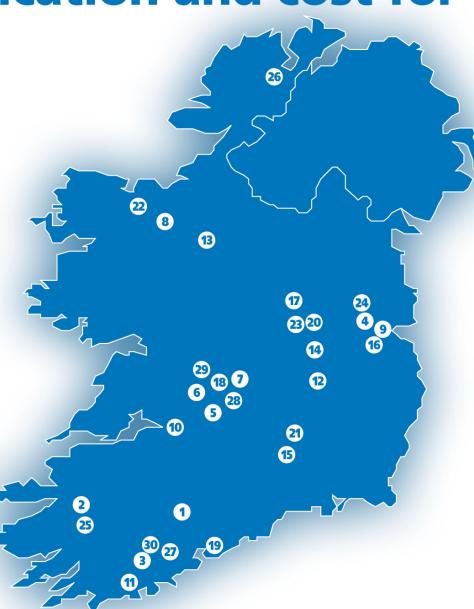
- 1 Dairygold
- 2 Kerry
- **3** SWS
- **4** Progressive Genetics
- 5 Dovea Al

Milk Recording

- 1 Dairygold
- 2 Kerry
- 3 SWS
- 4 Progressive Genetics
- 6 Arrabawn
- 7 Tipperary
- 8 Connacht Gold

Farm Organisations

- 9 IFA
- 10 ICMSA



Herdbooks

- Holstein Friesian 11
 - Belgian Blue 12
 - Angus 13
 - Aubrac 14
- Blonde d'Aquataine 15
 - Charolais 16
 - Hereford 17
 - Limousin 18
 - Normande 19
 - Parthenais 20
 - Piedmontese 21
 - Shorthorn 22
 - Simmental 23
 - Jersey 24
 - Kerry 25
 - **MRI 26**
 - Montbeliarde 27
 - Rotbunt 28
 - Saler 29

ICBF 30

Animal Events Recording

- Prior to the setting up of ICBF, there was no mainstream process for recording the sires of calves at birth.
- · In 2002, Animal Events recording was launched.
- It's key objective was to allow mainstream recording of sires at birth, and remove duplication
 - White cards
 - Pedigree birth cards
 - Al calving survey
 - Milk/Beef Recording
 - Enrollment
 - Calving Dates
- The following slide gives an example of the original Animal Events sheet



				urn completed forms every 7 days			
	Section 1a – Details for National Bovine Animal Birtl		Pedigree name to	Section 1b - E	Section 1b - Extra Calving Details		
	2 0	Dam of Calf Details	trigger herd book	ving tails	Pedigree Name of	Calf	
AE line No.	Date of Event Day Month	Dams Ear Tag Number Breed of Dam	umber of Dam		Herdbook Registration Only Note: Profix Not Required		
01			registation	2 3 4			
02			10515001011	2 3 4	1 1 1 1 1 1		
03			M 7	2 1 2 3 4			
04			X 7 1	2 1 2 3 4			
05			X 7	2 1 2 3 4			
06		This is the few	m ugod by oottle breed	lina			
07		I ms is the for	m used by cattle breed	ung			
08		herds to regis	ster calves (for DAF, h	erd			
09		ncrus to regis	ici carves (for DAF, fi	CIU			
10		book and performance recording). There					
	Note: Always circle the a	-			rn dead.		
	Date of Event Within Her- of Anima	is also an elect	ctronic version produced by			thers	
	Day Month Freeze Brand T			•	PD Weight	Dry- Off Came of call or or Weam form death	
11		the most wide	ly used farm managen	nent	DØ	1 2	
12		DC poolsogo	DAF on line systems	o wo		1 2	
13		PC packages.	DAF on-line systems	are			
14		alc	o now available				
15 16		also ab spilos		1 2 3			
17			1 2	1 2 3		11 2	
18		Z Recording an event on an anima	1 2	1 2 3	1 2	1 2	
19		Observed Line Name	1 2	1 2 3		21 22	
20.	1 1		1 2	1 2 3	1 2	1 2	

DECLARATION FOR NATIONAL BOVINE Declaration of owner/keeper of Herd in which animal was born: I herby declare that the details given by me in all sections of this Application form to be true and accurate:

ANIMAL BIRTH REGISTRATION This application to be completed by owner/keeper of the Herd in which animal was born, at the time of tagging, and posted immediately to the registration service

Signature of herd owner:______ Dute: _____

"Please record all caiving events. Only those that result in the birth of a live calf will be used for National Borine Autoral Birth Registration. Those Goat result in the birth of a dead calf will be used by ICBF for cattle breeding purposes only. Please record dead caives by leaving the calf ID field (law 5 digits of the calf say) bleats.

Animal Welfare, Recording, and Breeding Scheme (AWRB)

- Launched on Jan 1st 2008
- Has revolutionised beef performance recording in Ireland
- Brought over 40k herds into main-stream recording through the roll-out of Animal Events
- Has both a welfare and breeding focus
- Is sustainable
- Electronic and Paper based recording

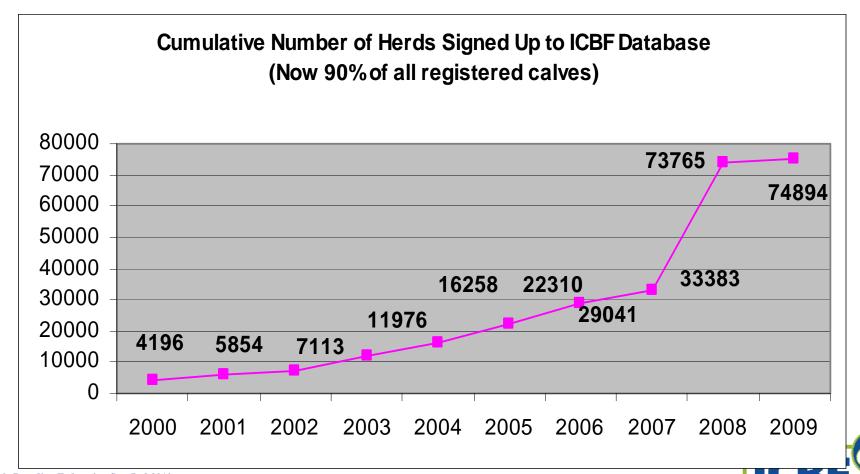


Key Elements of the Suckler Cow Welfare Scheme

- Driven by DAFF and Farmer Representative Organisations
- <u>Sire</u> of calf and calving ease recorded at birth via Animal Events
- Disbudding by 21 days
- Recording of castrations
- Meal feeding introduction min 4 weeks prior to weaning, 2 weeks after weaning
- · Calf quality and calf docility scores at weaning
- From a cattle breeding perspective, the results have been dramatic.



ICBF Database has 90% coverage of breeding animals in Ireland



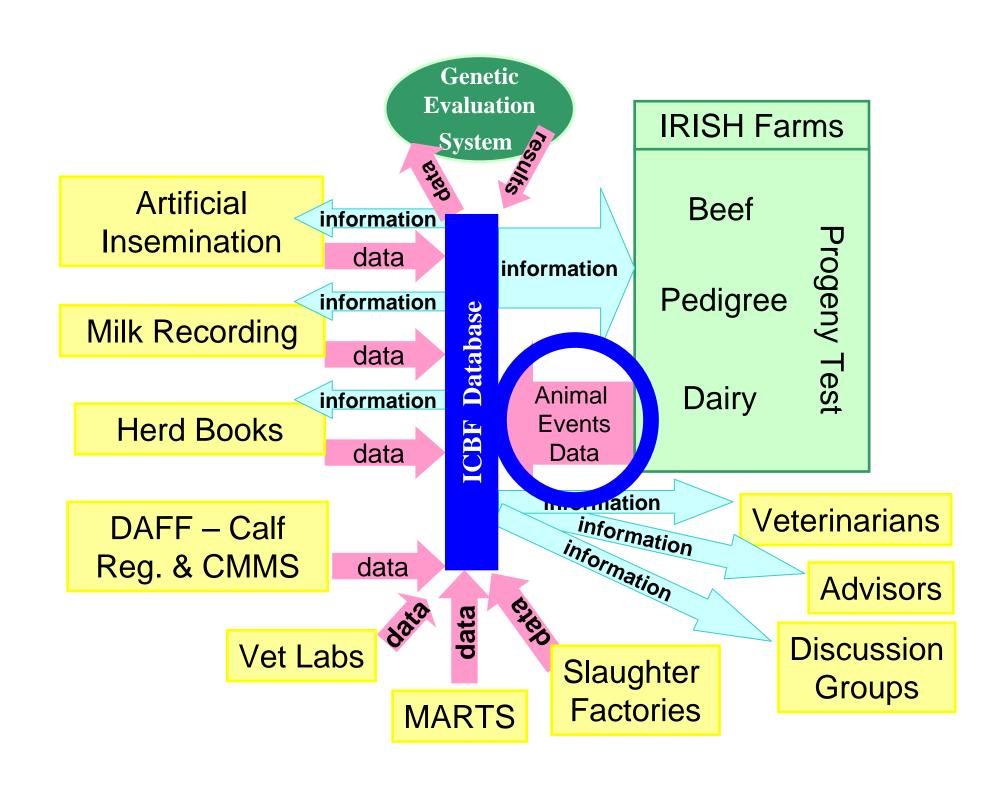
Fostering and Developing a Culture of Sharing and Cooperation

- Having a culture of 'working together for the benefit of cattle farmers' is critical in order to maximise the benefit of systems and processes.
- The culture of sharing has been fundamental to ICBF since its inception.
- ICBF's status as a 'non-profit' making entity has been helpful in this regard.
- Government support though the Dept of Agriculture in terms of data sharing has been hugely beneficial
- Farmers and their cooperatives have been very supportive

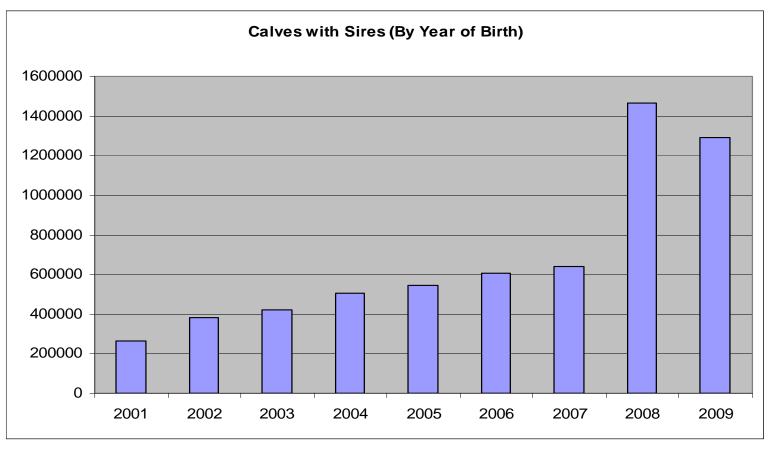
 each of the 75,000 herd-owners have given individual
 permission to access their data for cattle breeding
 purposes

The Result (so far)



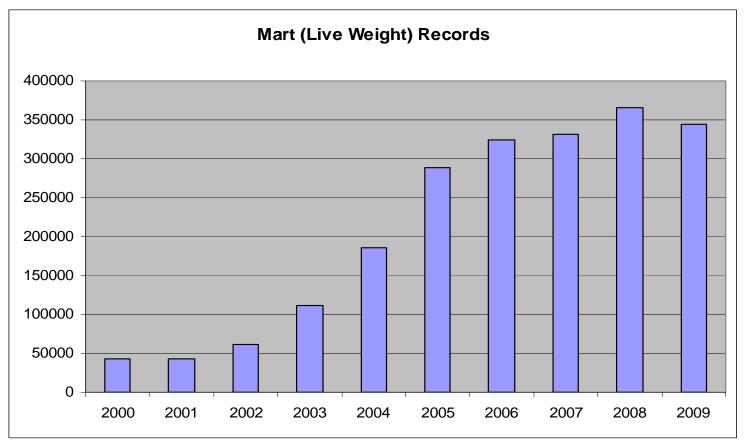


Sire Recording Levels – Dramatic Increase



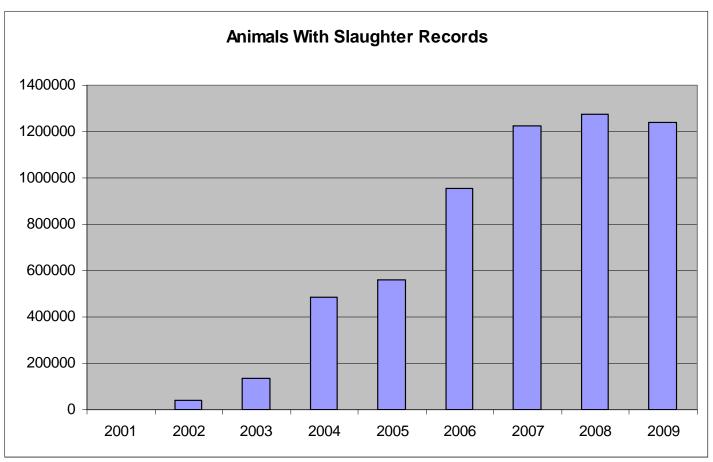


Live-Weight Recording Levels – Dramatic Increase



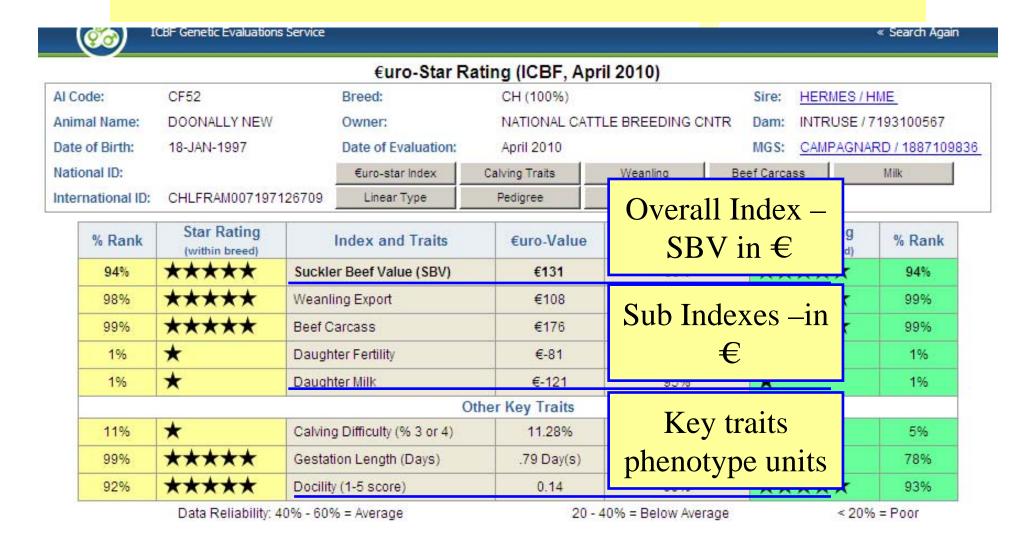


Slaughter Weight Recording Levels - Dramatic Increase





Beef Bull €uro-Star Evaluation





The Next Stage



Key areas to progress further

- Increase the number of live-weight records
- Develop the integration with laboratories to the next level to assist with health performance recording



In Summary....

- A central cattle breeding database has removed duplication across the cattle breeding industry and provided a platform to improve farm profitability through breeding
- A supportive DAFF has helped create a synergy between regulatory data and cattle breeding
- Creating a culture of sharing of data across the industry removes duplication and cost, and increases value

