



IRISH CATTLE BREEDING FEDERATION & SHEEP IRELAND

The new infrastructure for cattle and sheep breeding in Ireland.

Brian Wickham
Chief Executive
ICBF & Sheep Ireland



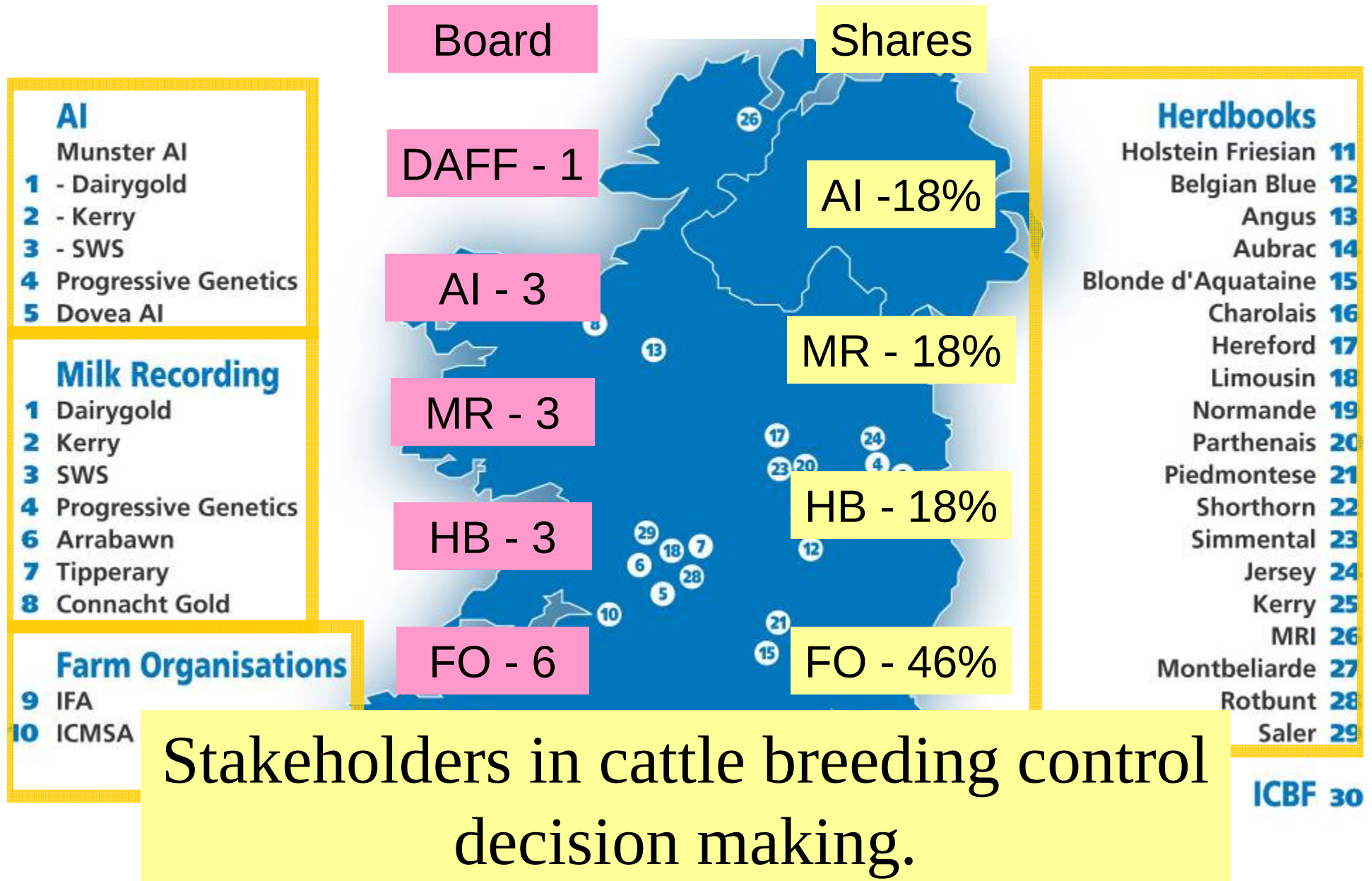
Content

- Background
- Data & Information Sharing
- ICBF's National Database
- Genetic Evaluation System
- Funding
- Benefits

Irish Cattle Breeding Federation Society Limited (ICBF)

- *Established with interim Board in 1997*
- *Commenced operations in 1998*
- *Current structure in 2000*
- *Mission: achieving the greatest possible genetic improvement in the national cattle herd - Dairy and Beef*

MEMBERS, BOARD & SHARES - ICBF



Data & Information Sharing Agreement

- Contributors retain ownership
- Farm data through “Animal Events”
- Electronic sharing of data collected
- Data for research
- Integrated genetic evaluations
- Herd owner controls access
- Information for service providers
- HerdPlus® - information of herd owner
- User-pays & full cost recovery

Database – single source – without duplication

Source of data	Type of data
Farms	Animal events – birth, calving, weights, docility,
DAFF – official system	Registrations, movements, deaths, exports ...
Meat Factories	Slaughter (date, weight, grade ...), Images
Marts	Sale (date, weight, price ...)
AI	Insemination (date, sire)
Milk Recording	Milk weight
Laboratories & Milk Processors	Milk composition, disease test results, genotypes
Linear scoring	Weights, scores – beef & dairy
Genetic evaluations	Breeding values, reliabilities, indexes ...

Database Information

– single source – to many users

Users	Type of Information
Service providers: - Milk recording - Herd Book - AI Stud & Field - Advisory - Veterinarians - Milk processors - Researchers	• Customer profiles • Service details • Genetic evaluations • Herd Books • Discussion Groups & Farmer Reports • Elite animals • Research results • Active AI bull lists • Raw data files for research
Farmers direct	• HerdPlus®- genetic evaluations, reports • GROW®- reports • GEN€ IRELAND®- progeny test
General public: www.icbf.com	• Statistics, Reports, Publications ... • Genetic Evaluations

Beef Genetic Evaluations

- [Cattle Statistics](#)
- [Annual Reports](#)
- [Academic Papers](#)
- [Glossary](#)

[Learn more about ICBF](#)

- [Contact Information](#)
- [Costs and Benefits](#)
- [The Database](#)
- [Members](#)
- [Structure](#)
- [International Representation](#)
- [Legal and Privacy](#)

ICBF Website

www.icbf.com

Any comments on the new icbf website can be submitted [here](#)

bull search

Online Services

User name

Password

[Log In](#)

[Where do I get my username and password?](#)

[Experiencing problems - Click Here](#)

Bull Search

Search by:

☐ AI Code, Tag, Herd Book

☐ NMTT

☐ Name or part of name

[Search](#)

Beef Bull Euro-Star Evaluation

€uro-Star Rating (ICBF, April 2010)

AI Code:	CF52	Breed:	CH (100%)	Sire:	HERMES / HME	
Animal Name:	DOONALLY NEW	Owner:	NATIONAL CATTLE BREEDING CNTR	Dam:	INTRUSE / 7193100567	
Date of Birth:	18-JAN-1997	Date of Evaluation:	April 2010	MGS:	CAMPAGNARD / 1887109836	
National ID:		€uro-star Index	Calving Traits	Weanling	Beef Carcass	Milk
International ID:	CHLFRAM007197126709	Linear Type	Pedigree	Overall Index		

% Rank	Star Rating (within breed)	Index and Traits	€uro-Value	% Rank
94%	★★★★★	Suckler Beef Value (SBV)	€131	94%
98%	★★★★★	Weanling Export	€108	99%
99%	★★★★★	Beef Carcass	€176	99%
1%	★	Daughter Fertility	€-81	1%
1%	★	Daughter Milk	€-121	1%
Other Key Traits				
11%	★	Calving Difficulty (% 3 or 4)	11.28%	5%
99%	★★★★★	Gestation Length (Days)	.79 Day(s)	78%
92%	★★★★★	Docility (1-5 score)	0.14	93%

Data Reliability: 40% - 60% = Average

20 - 40% = Below Average

< 20% = Poor

Overall Index –
SBV in €

Sub Indexes –in
€

Key traits
phenotype units

Dairy Genetic Evaluations

- [Cattle Statistics](#)
- [Annual Reports](#)
- [Academic Papers](#)
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Dairy Bull EBI Evaluation

Code:

SCOT / SBM

Animal Name:

Date of Birth: 01-SEP-1992

Date of Evaluation: April 2010

MGS: [SIR C VALOR / 6501811754](#)

Animal ID:

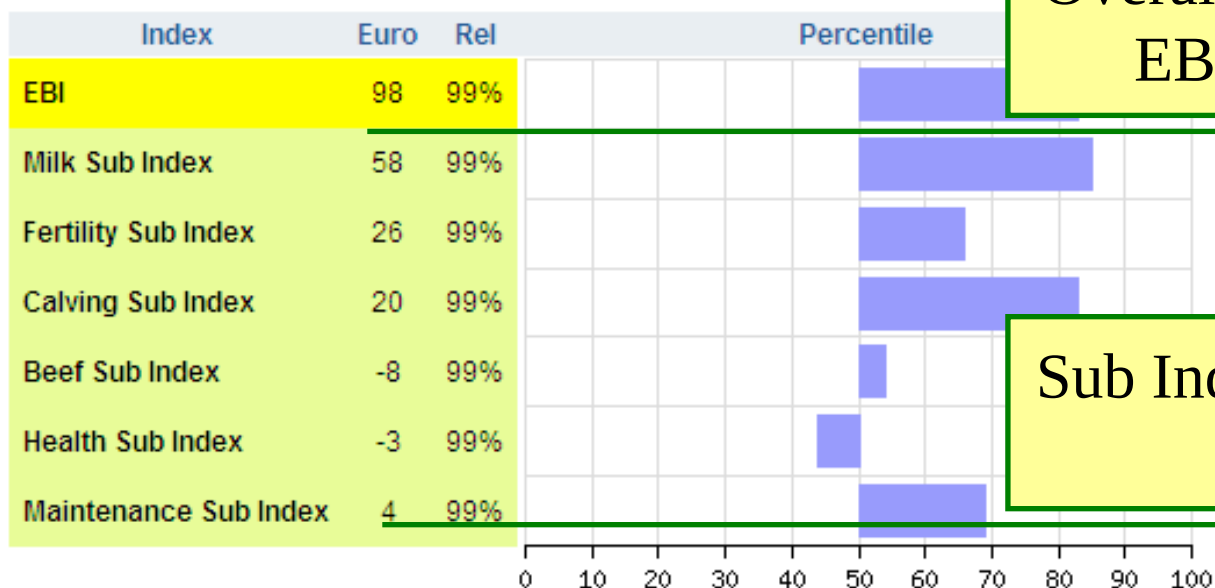
EBI Summary	Milk	Fertility	Calving	Beef
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International ID: HOLDEUM001021231601

Health	Type	Pedigree	Prev Eval
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For more understanding EBI, PTA's and Breeding Values - [Click Here](#)

Overall Index –
EBI in €



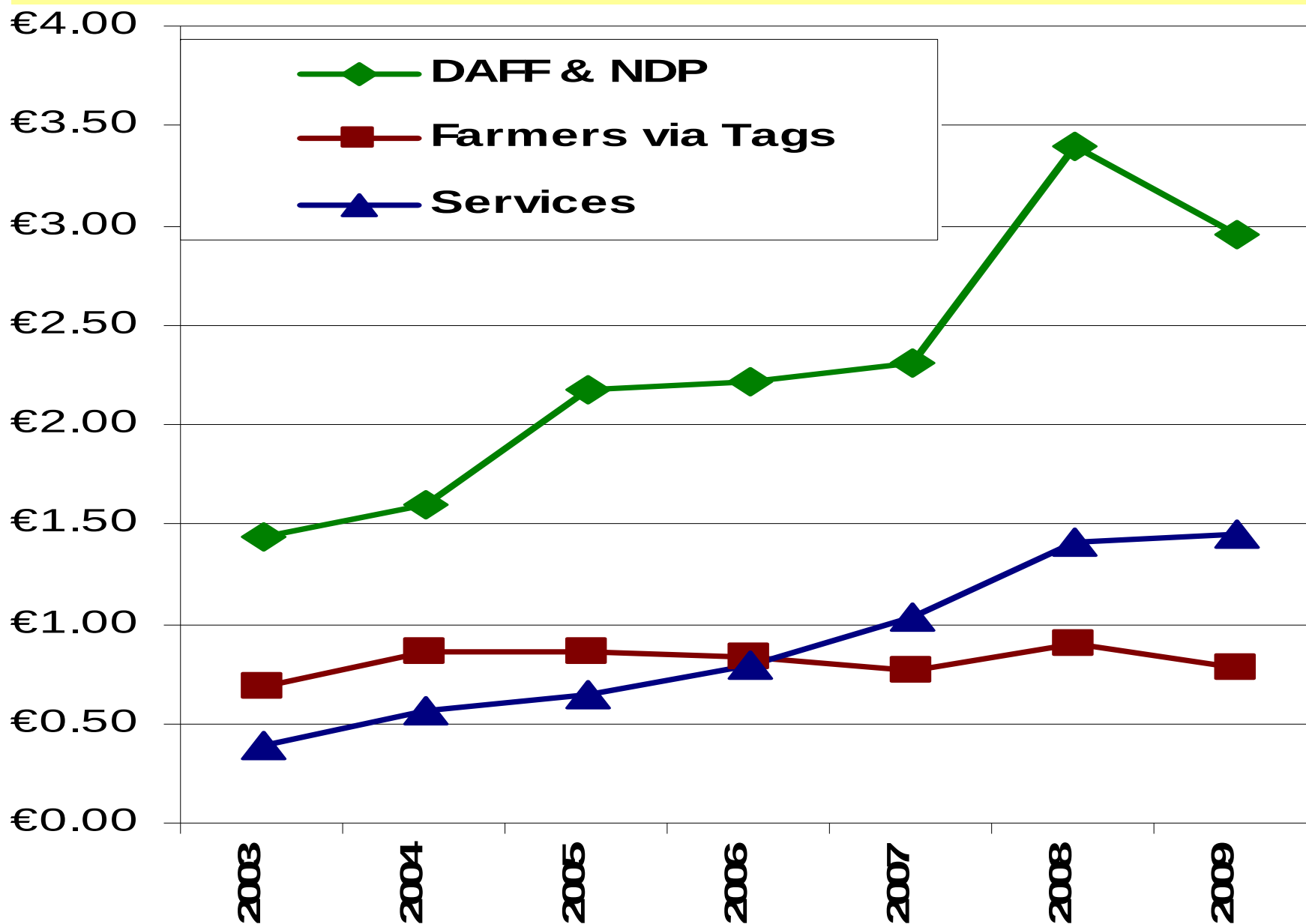
Sub Indexes –in
€

Index	PTA	Rel	Percentile
173	99%		More
11	99%		More
10	99%		More
0.08	99%		More

Calving Sub Index	PTA	Rel	Percentile
Dir. Calv Diff. (%)	3.32	99%	
Mat. Calv Diff. (%)	10.02	99%	
Gest Len (Days)	-2.14	99%	
Calf Mort (%)	-0.65	99%	

Key traits
phenotype units

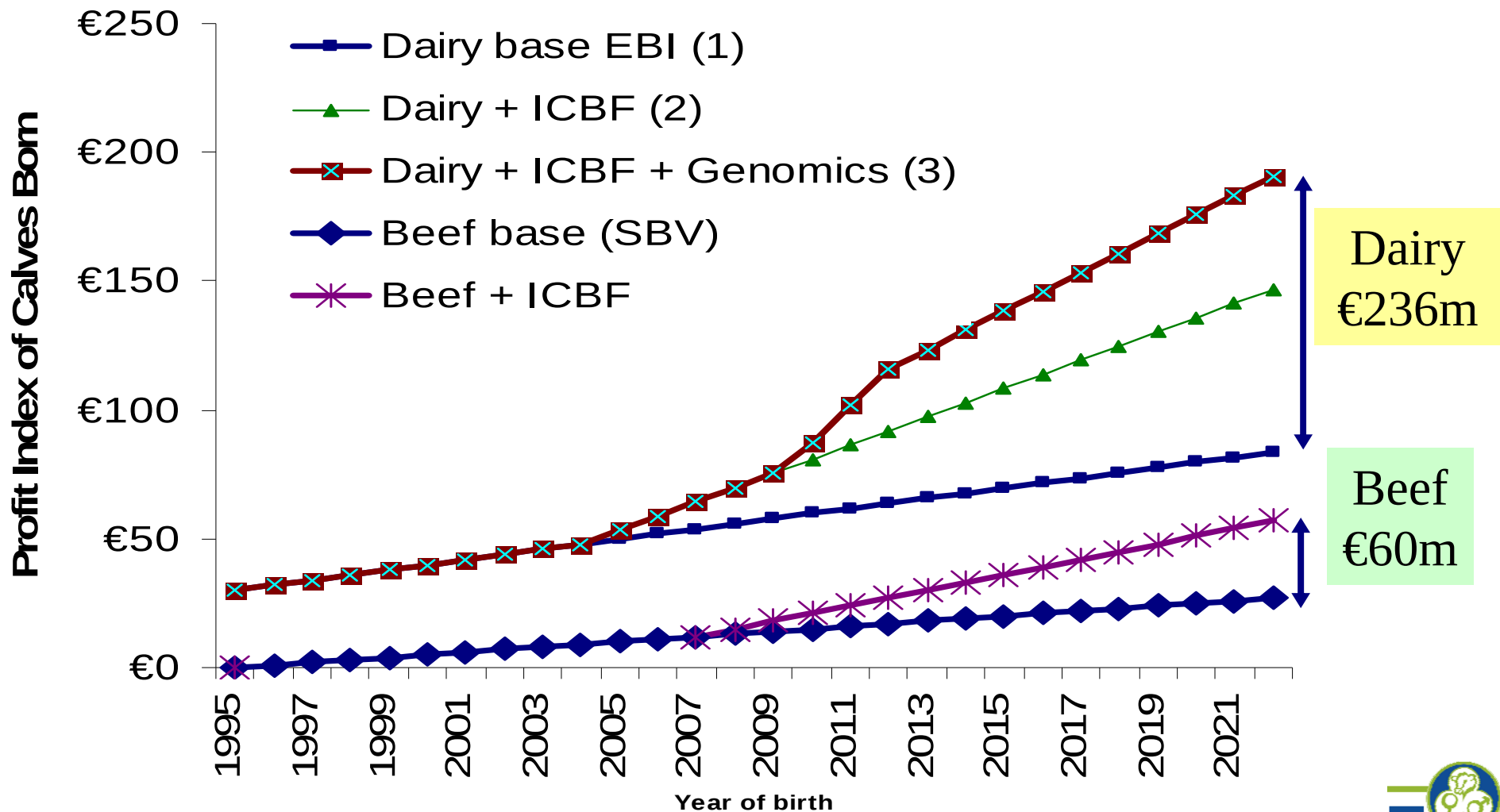
ICBF INCOME SOURCES (million)



Benefits to Stakeholders

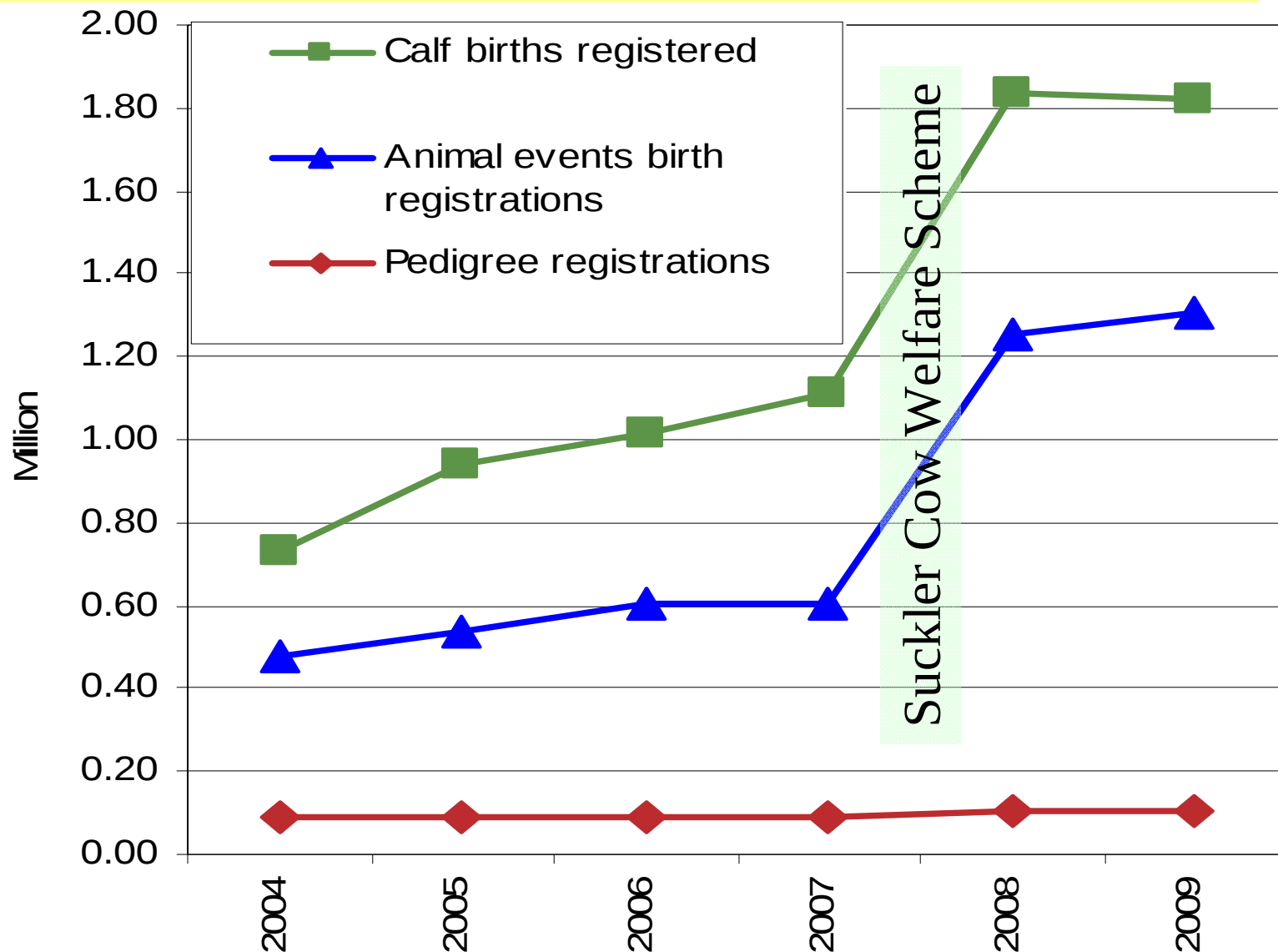
- State
 - cost savings (€1.35m)
 - taxation (€2.27m)
 - research, education, knowledge transfer
- Community
 - Industry – processors, suppliers
 - Consumers
 - Society
- Farmers
 - Service users – now & future
 - Non users of services - now & future
- Breeding Industry

Projected Impact of ICBF on Genetic Gain of Dairy & Beef Calves Born in Ireland.



Growth of Participation

– 90% of calves born in 2009



Conclusions

- Animal breeding is a unique and powerful tool for improving the profitability of cattle and sheep farming in Ireland.
- Irish animal breeding has been transformed through a unique partnership between farmers, the breeding industry and DAFF.
- New technologies, market imperatives and economic pressures are providing the motivation for this transformation to be continued.
- Continued investment will give excellent returns.
- The model established for animal breeding has potential to achieve substantial progress areas such as plant breeding, animal health and product quality.

ICAR 2012 CONFERENCE

**CORK
IRELAND**

Mon 28th May
- Fri 1st June 2012

www.icar2012.ie

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- Fri 1st June 2012



www.icar2012.ie