

#### IRISH CATTLE BREEDING FEDERATION

# Beef Data Recording In Ireland

Current Experience & Future Potential of an Industry Integrated National Database

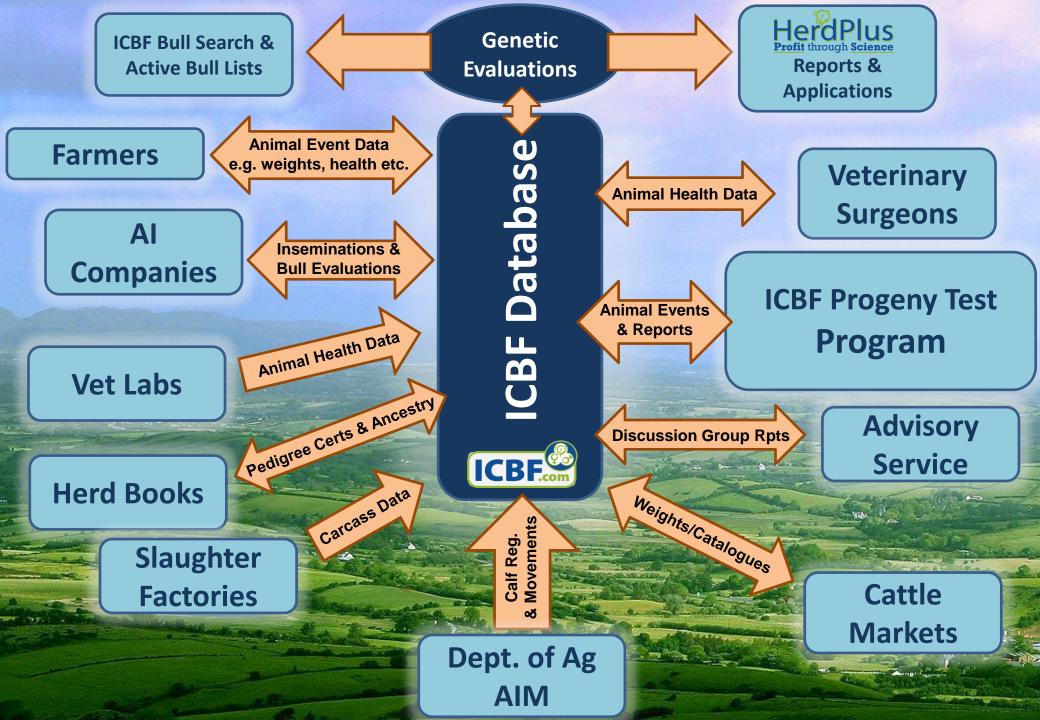






Chris Daly ICBF





# Most Significant Data Flow



- Births & Deaths
- Animal Movements
- Animal Events



# Irish Beef Cow Herd

#### The Numbers

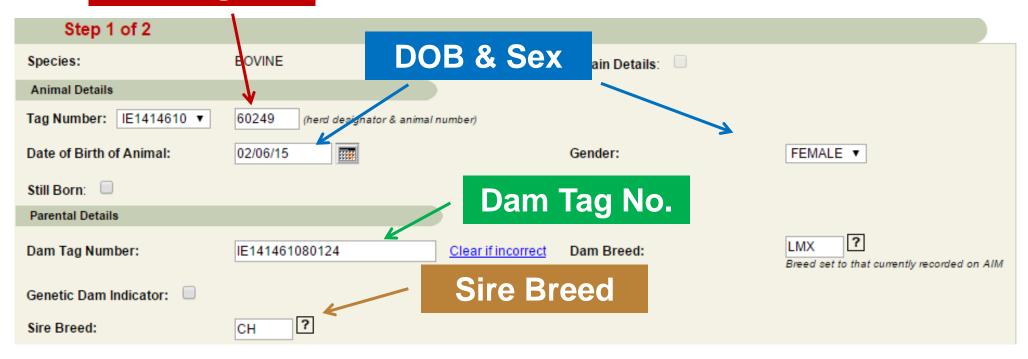


- Approx. 1 million beef cows in 60,000 herds (17 cows/herd)
- Ranging in herd size from 1 250.



## What's Recorded at Birth

### Calf Tag No.

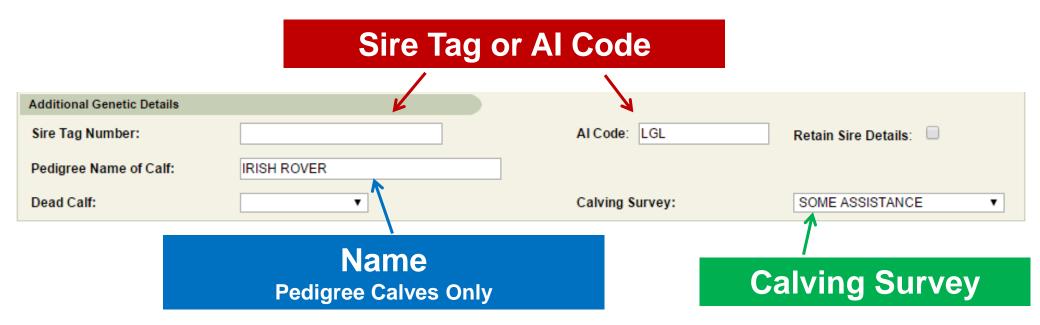


# **All Compulsory Data**



### What's Recorded at Birth

#### Additional Data

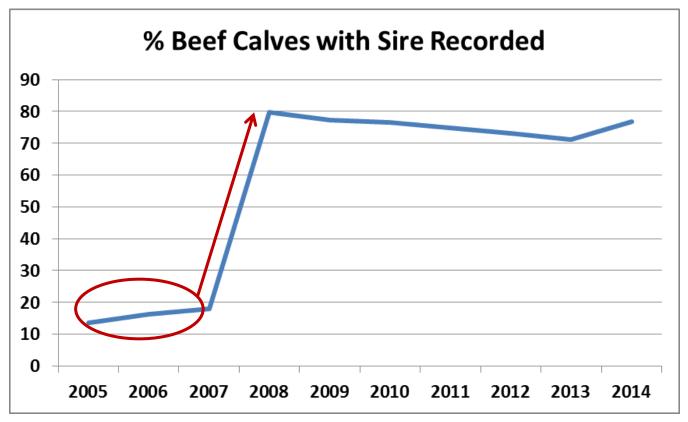


## **All Optional Data!!**



# Beef Sire Recording in Ireland

#### All beef calves born 2005-2014



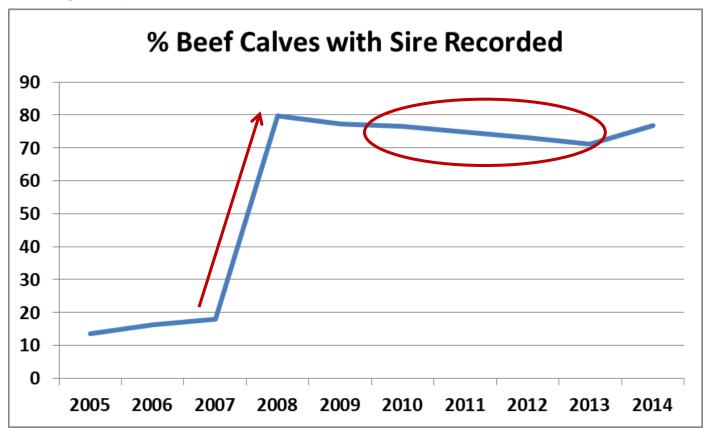
- Pre 2008 less than 20% calves.
- 2008 increased to 80% calves.
- What caused sudden increase?!!



### Suckler Cow Welfare Scheme

#### 2008-2012

- Cow & calf welfare and data recording €80 per cow.
- Sire recording key component.



Effect of reduction of payment to €40 mid scheme.



#### Data Availability **Primary Traits** Weight Slaughter Conformation **Carcass** Data **Factories** Fat Health Age 1<sup>st</sup> Calving **Birth Dates Dam Tag** Calving Int. Compulsory **Death Dates** Survival Dept. of Ag **Link Ancestry AIM System** Extra Data **Sires Calving Difficulty Calving Surveys Direct & Maternal** Other Surveys

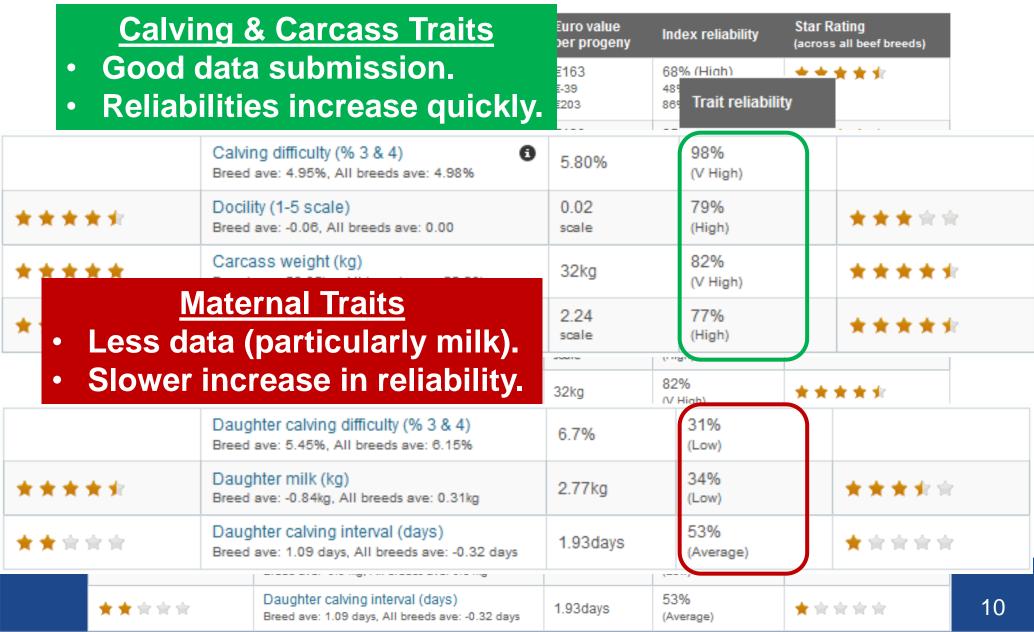
### What about Milk?!?

**Docility, Quality** 

& Health Data

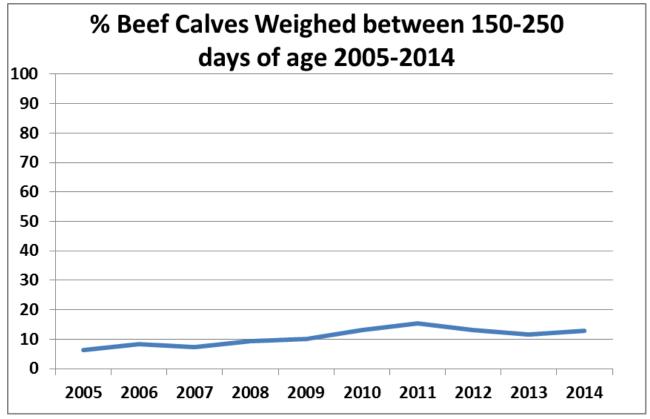
# Irish Beef Index

#### **Euro-Stars**



# Challenge

#### Milk: The Problem Trait



- Low levels of weighing of suckler beef calves (<20% in 2014).</li>
- Weighing equipment expensive.
- Laborious. Poor facilities & land fragmentation.



### Solution

#### Milk

- No major increase in on-farm weighing likely.
- Free weight recording not sustainable.
- Farmer cow milk scores (1-5) now being submitted.



High correlation between scores and weaning weights ~0.9



## Solution

#### Milk: Profile of an Irish Al Bull



- Limousin bull Ardlea Dan.
- Born 2008.
- Entered stud 2010.
- 20,958 progeny.

- 734 daughters calved.
- Only 30 maternal weaning weights.
- 117 daughter milk scores!!
- Much faster increase in trait reliability.



# Challenge

#### Farmer Data Recording

Farmers

Animal Event Data
e.g. weights, health etc.

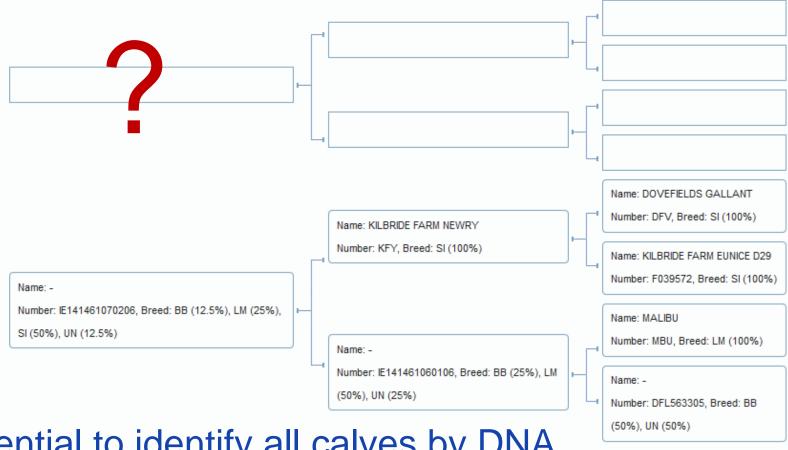
ICBF Database

- Still ¼ of calves born in 2014 with no sire.
- What will happen in the absence of financial incentives?!?
- Education & awareness.



# Genotyping

#### Solution to a Problem



- Potential to identify all calves by DNA.
- Will only require date of birth at registration.



### **Future**

#### Beef Data & Genomics Program (BDGP) 2015-2020

- Most comprehensive yet.
- Payment per hectare (~€80-€90 per cow).
- Requirements
  - Record Data e.g. sires, calving surveys etc.
  - Genotype 60% of herd each year.
  - Introduce high index breeding stock into herd.
- Has secured vital data flows.

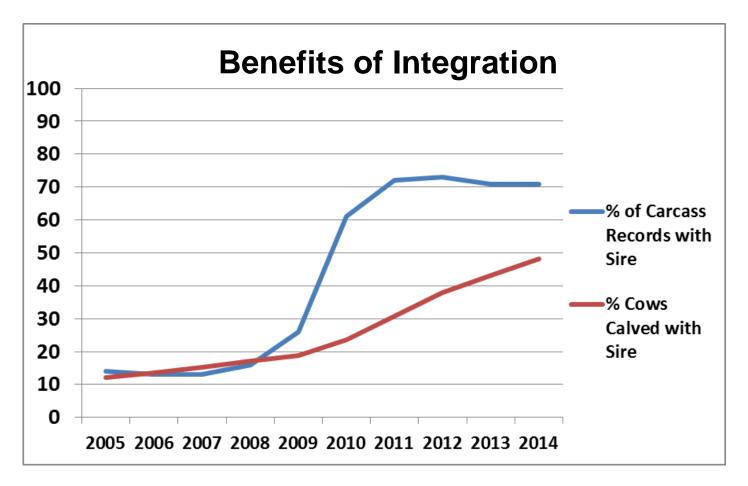








# Summary



- Huge benefits to ICBF database from industry integration.
- Education Increase awareness & engagement with farmers.



# Acknowledgements

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# **Thank You**

