

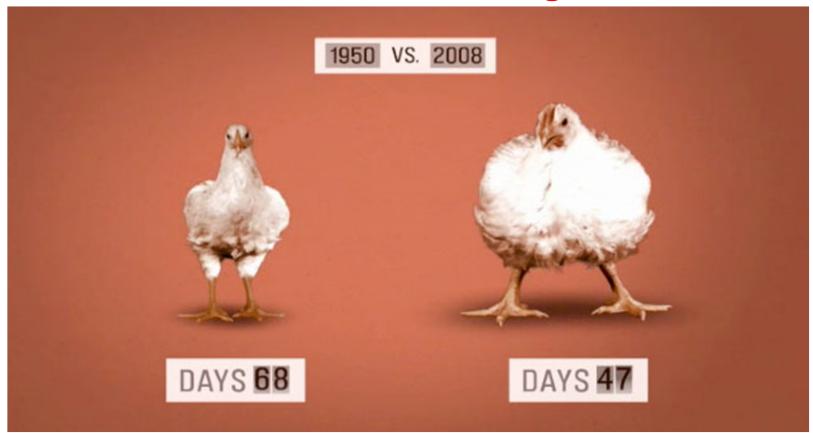
IRISH CATTLE BREEDING FEDERATION

ICBF – Simplifying Animal Health With Technology



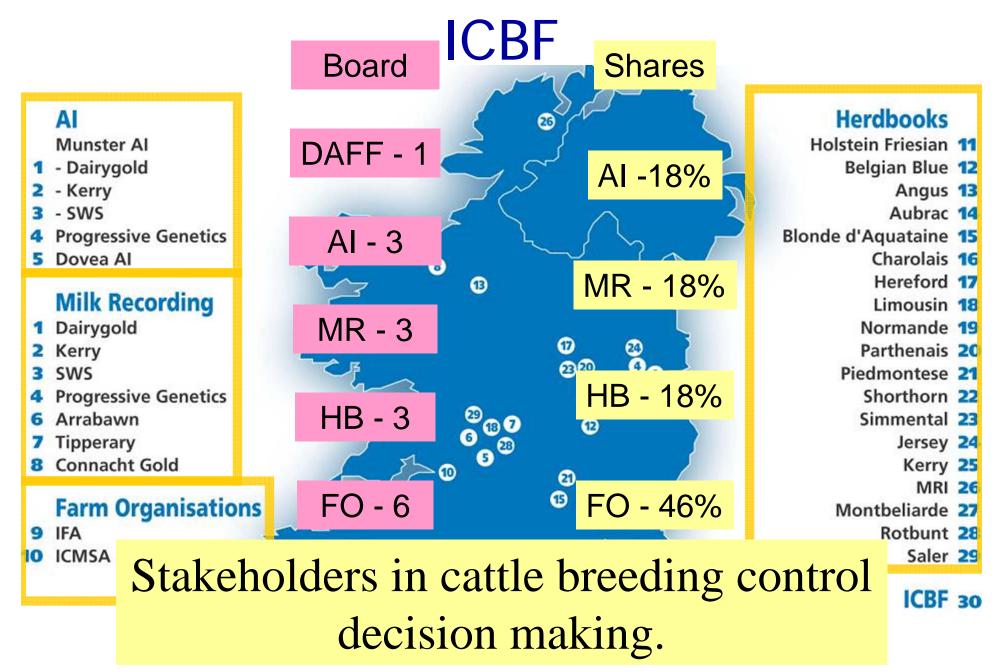
Breeding....

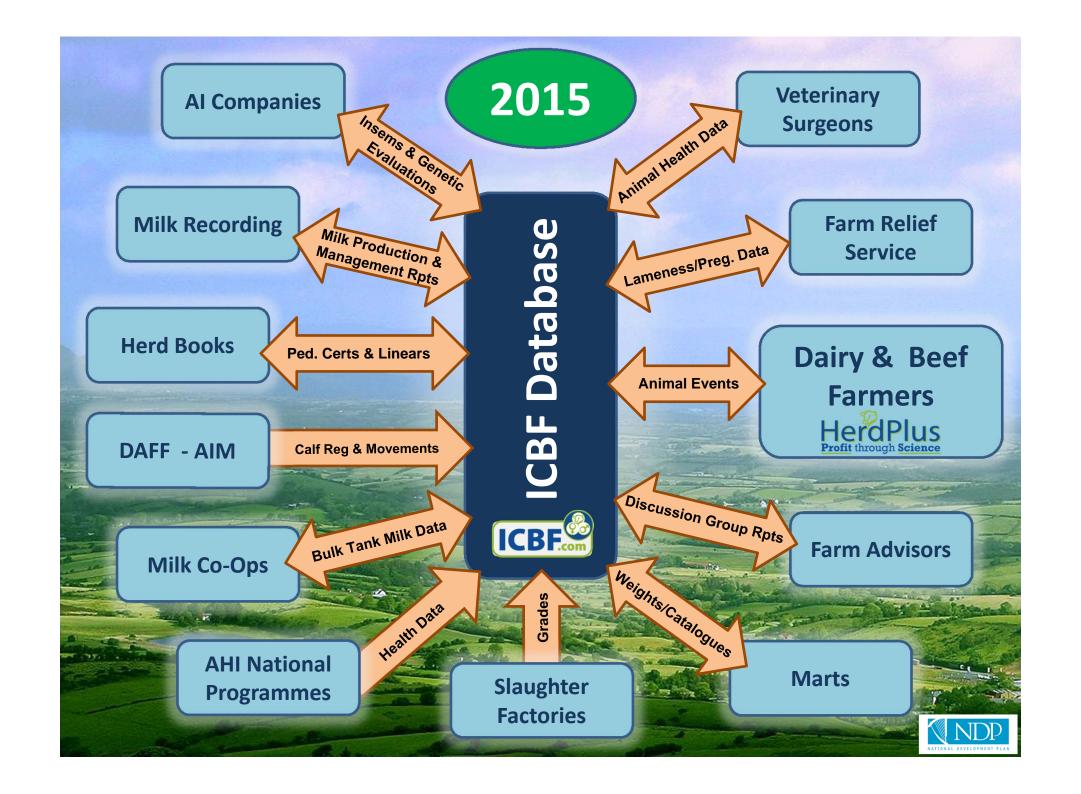
Same amount of feeding......



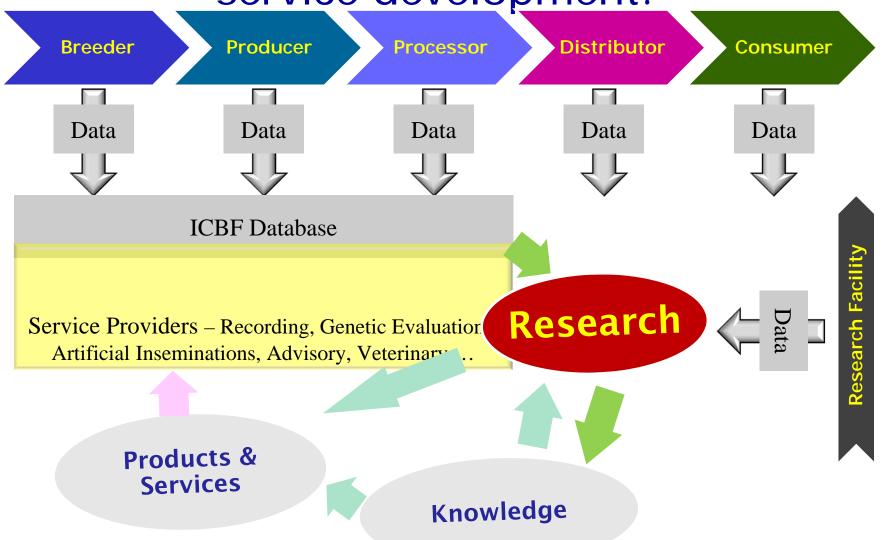


MEMBERS, BOARD & SHARES -





Irish Model – research, innovation and service development.





National/International Considerations

We support:

In order to get:

ICAR Standards & Guidelines



Data from other sources we can trust

Interbull (dairy) & Interbeef (beef)

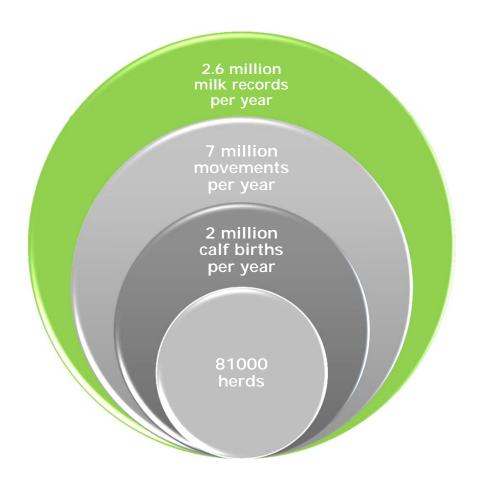


Genetic evaluations from other countries we can trust

Standardisation is key for powerful data

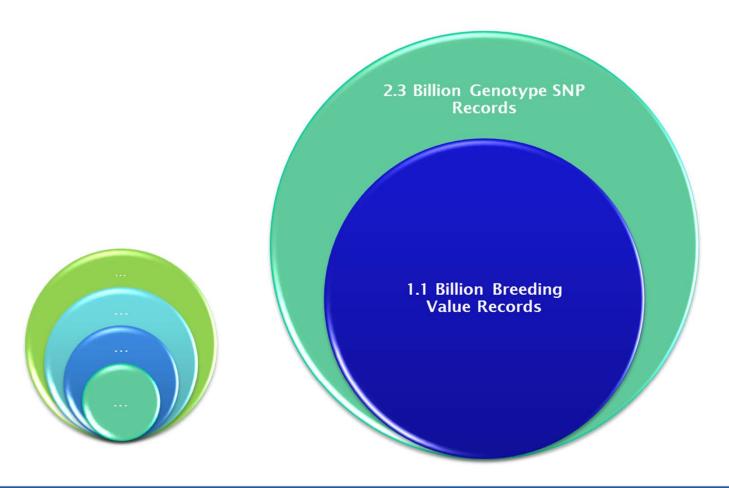


Size of Regular Data Set





Size of Larger Data Sets



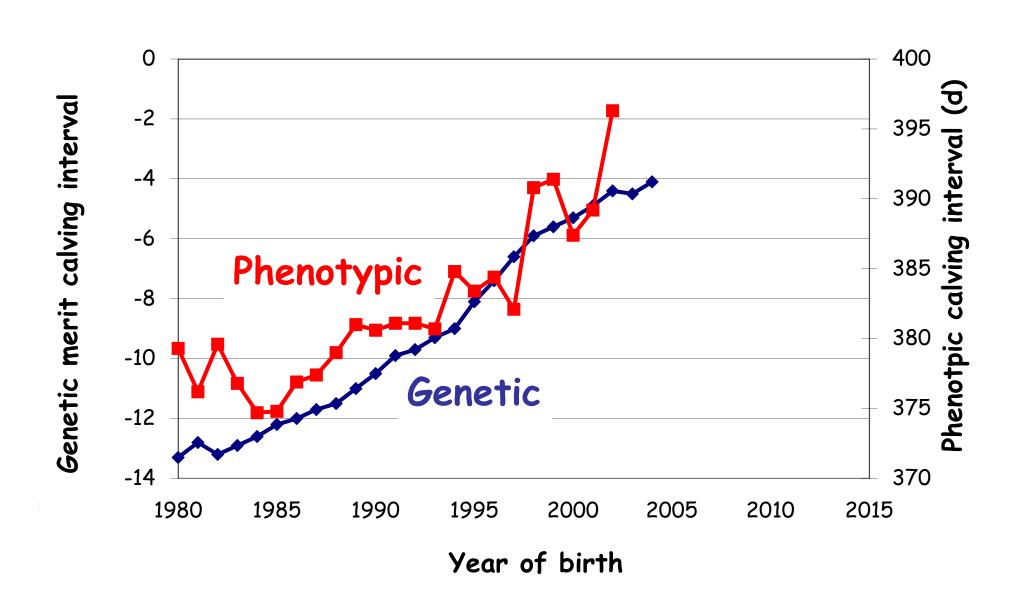


Genetics and disease

- "Genetics has nothing to do with disease"
- "It's all management"
- "Breeding is too slow"
- "We can eradicate it"



The power of breeding!!!!



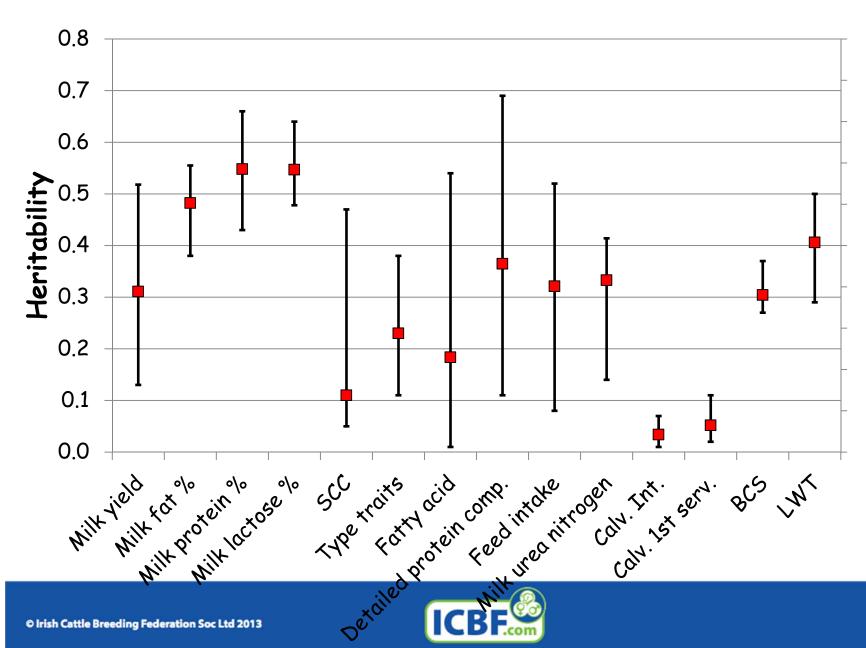
Characteristics of the ideal cow

- 1. Produce a large quantity of high value product
- 2. Good reproductive performance
- 3. Good health status
- 4. Good longevity
- 5. Does not eat a large quanti
- 6. Easy to manage
- 7. God Product quality
- 8. Lov Feed intake & environment
- 9. Res Animal health & disease

Cannot be taken in isolation



The Majority of Traits are Heritable



Why genetics??

 Genetics contributed ~50% of change in performance in most populations

Genetics creates the potential

Management realises the potential

Disease destroys the potential

Easy to manage a genetically healthy cow to be unhealthy but difficult/expensive to manage a genetically unhealthy cow to be healthy





MIR Implemenation



To develop innovative bio-models and predictive equations for building web applications to provide dairy farmers and their consultants with new information and decision making tools like:

Pregnancy diagnosis
Predictor of the ability to conceive
Heats detector
Mastitis predictor
Acidosis detector
Energetic balance calculator
Methane gauge



Breeding and Health

Genetics creates the potential

Management realises the potential

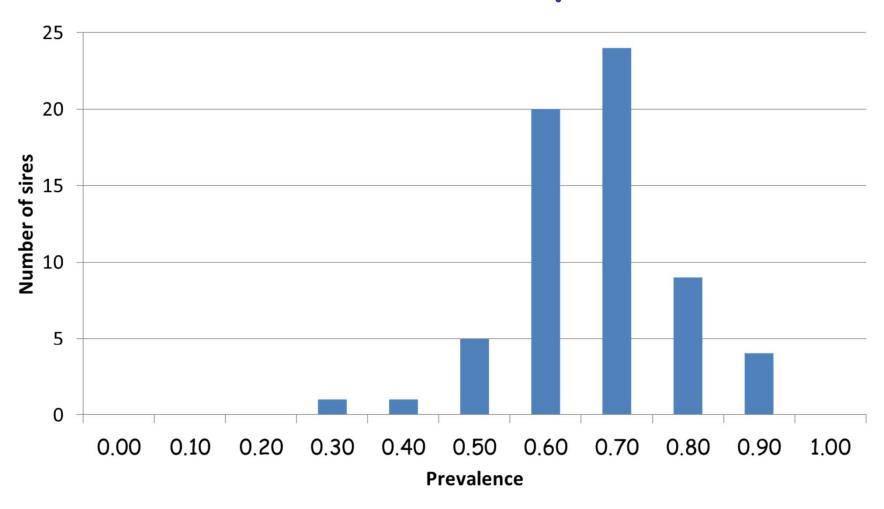
Disease destroys the potential

Animal health is the "new fertility" ...and breeding has a role in its control

Data, Data, Data........

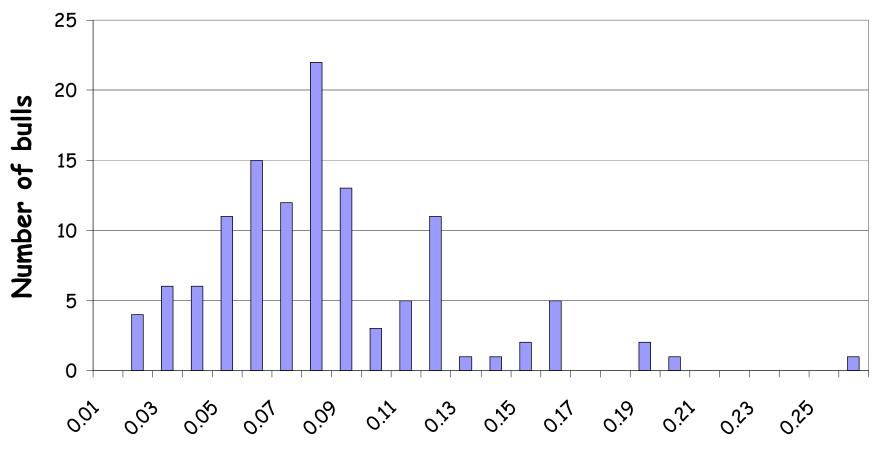


Liver fluke - sire prevalence





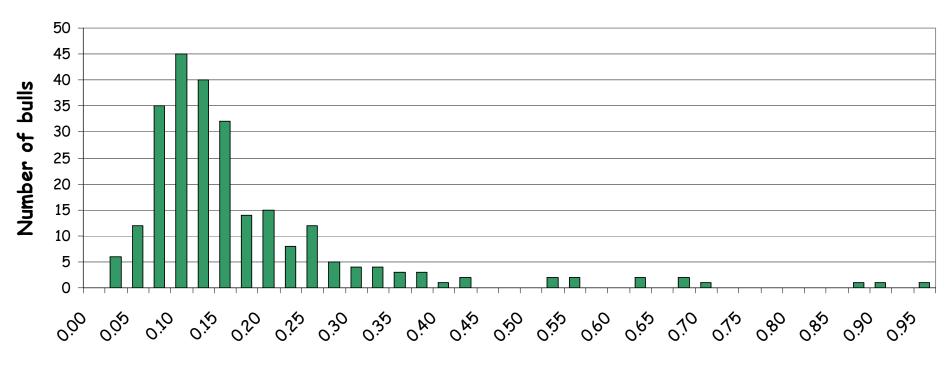
BVD - sire prevalence



Prevalence



TB - sire prevalence





Take home messages

- Considerable exploitable genetic variability in health/quality traits
- Animal health is going to become the next biggest "thing"
- Building links to take all usable data for a sustainable national herd
- Need to ensure that the farmer benefits from the data gathered on his/her farm
- Ireland well positioned structurally



Acknowledgements

- DAFM
- AHI
- Teagasc (Donagh Berry)

