THE GLOBAL STANDARD
FOR LIVESTOCK DATA

IRISH CATTLE BREEDING FEDERATION

Overview of Interbeef.

Thierry Pabiou (ICBF).

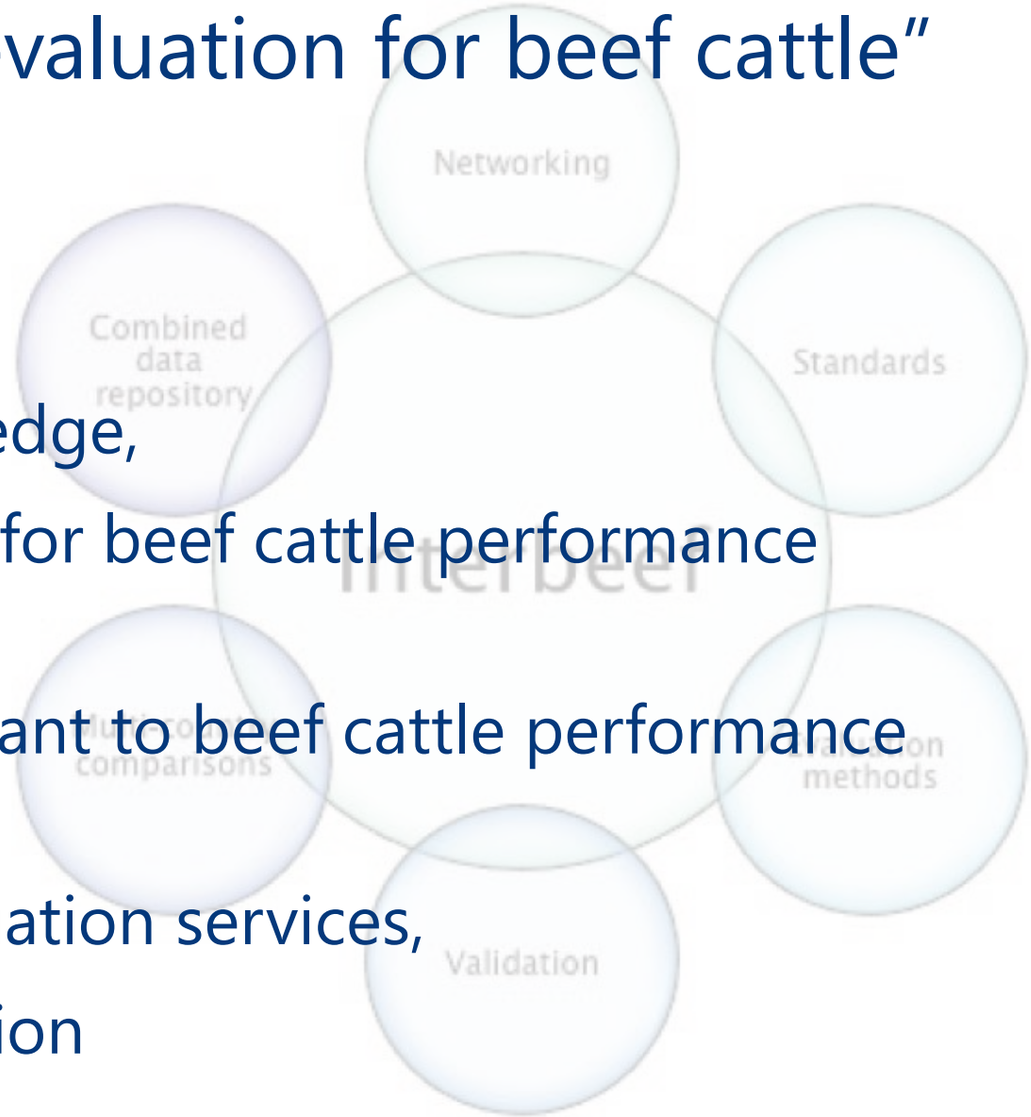
Department of
Agriculture,
Food and the Marine
An Roinn
Talmhaíochta,
Bia agus Mara

What is Interbeef.

"Some countries bringing together phenotypes and pedigree into a unique genetic evaluation for beef cattle"

5 objectives

- To provide a forum for sharing knowledge,
- To maintain guidelines and standards for beef cattle performance recording,
- To conduct international surveys relevant to beef cattle performance recording,
- To develop international genetic evaluation services,
- To facilitate the use of genomic selection



In the beginning

- 2001: EUBEEVAL
- 3 countries
- 2 breeds: Charolais & Limousin
- Plenty of motivation & energy!
  - Flat files
  - Solving ID issues

Interbeef today

- ICAR working group (2005)
- Business plan
  - Technical committee
  - Working group
  - Scientific committee
- Protected name (2010)
- Central IDEA database (2011)

Who's on board?

- 9 countries
- 5 breeds

- Plenty of projects
- Still plenty of energy!

Current evaluation

- 2 routine runs : January & September
  - 2 evaluations / run : calving & weaning weight
  - At the Interbull center
- 2 test runs : March & October
  - To ‘test’ changes in model, adding new traits/breed/country
  - At the Interbull center

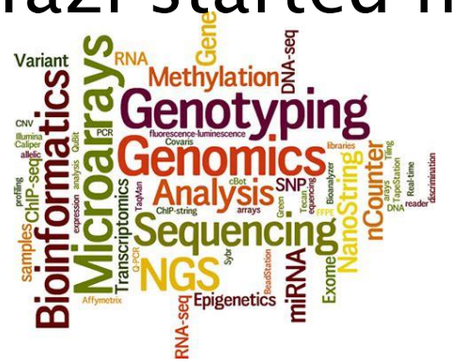
Interbeef phenotypes#

	Limousine			Charolaise			Simmental
	Wea. Weight	Calving score	Birth weight	Wea. Weight	Calving score	Birth weight	Wea. Weight
France	2,730,993	4,962,960	4,992,395	4,572,219	8,738,175	8,750,706	
Ireland+	213,462	214,350	19,532	332,171	222,072	38,320	30,802
Great Britain	137,274	154,984	204,011				
Germany	89,828			92,640			112,751
Switzerland	36,440			12,007			10,610
Czech Republic	12,679	17,756	17,756	39,320	59,149	59,149	
DFS*	91,628	281,185	211,645	173,423	298,493	271,760	72,675
Australia	67,160			72,389			

September 2018 routine run numbers except for Ireland & Australia (January 2019 routine run numbers)
+ Including data from crossbred calves
DFS* = Denmark, Finland, Sweden

In the pipeline

- 4 main current research partners:
  - Innovative research model.
- Current running research topics;
  - Female fertility
  - Carcass traits
- Hot topic
  - Central repository for phenotypes created April 2019
  - Using genomic information : Renzo Bonifazi started his PhD in September 2018 (WUR - NLD)



Why Is Interbeef important for Ireland => Finding the Best Bulls.

ICBF.com Irish Cattle Breeding Federation

Home | News | Genetic Evaluations | HerdPlus | Services | Publications | About ICBF

International Beef Evaluation (Interbeef)

International Beef Evaluation (Interbeef) Files Jan 2019

Weaning Weight (Jan 2019)

Calving Ease (Jan 2019)

- https://www.icbf.com/wp/?page_id=13498

Proofs available to AI companies & Breeders.

			Weaning weight				AI usage	
Evaluatic	Bull tag	Bull year of genotypir	Direct EBV	Direct Rel.	Maternal EBV	Maternal Rel.	Country of use as AI	Irish AI code
CHA	CHAFRAM007121321470		146	75%	123	61%	DFS,FRA,IRL	SUX
CHA	CHAFRAM007121216487		143	62%	122	37%	FRA	
CHA	CHAFRAM004807005638	2015	141	89%	133	76%	CZE,FRA,IRL	CH2218
CHA	CHAIRLM221222841193	2014	140	61%	96	28%		
CHA	CHAFRAM007957090255		140	75%	155	64%	CZE,DFS,FRA,IRL	S1207
CHA	CHAFRAM005895104725		139	77%	73	38%		
CHA	CHAFRAM004527660269		138	67%	122	46%	FRA	
CHA	CHAFRAM000393100604	2016	136	83%	99	72%	DFS,FRA,IRL	IGO
CHA	CHAFRAM005703555188	2016	136	74%	152	58%	CZE,FRA	
CHA	CHAFRAM005249296732		135	71%	144	55%	FRA	
CHA	CHAFRAM000314552066		135	55%	109	20%		
CHA	CHAFRAM005810401501	2015	135	84%	93	66%	FRA,IRL	SDA
CHA	CHAIRLM131485330266	2013	134	62%	90	15%		
CHA	CHAFRAM008592103408		134	77%	123	67%	CZE,DFS,FRA	

Conclusion

- Interbeef machinery is in place.
- Business model allows research to progress.
- Genomic is round the corner.
- Real power;
  - finding the best bull for farmers/industry.
  - In the most accurate way.