

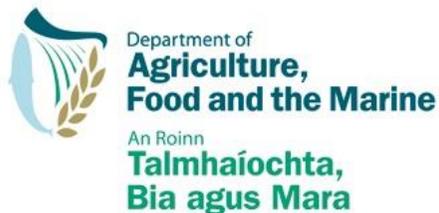


IRISH CATTLE BREEDING FEDERATION

# ICBF Database & Management Reporting



Mark Waters



# Introduction

- Background & Role of ICBF
- The National Database & Industry Links
- Data Recording
- HerdPlus<sup>®</sup> & Management Reports

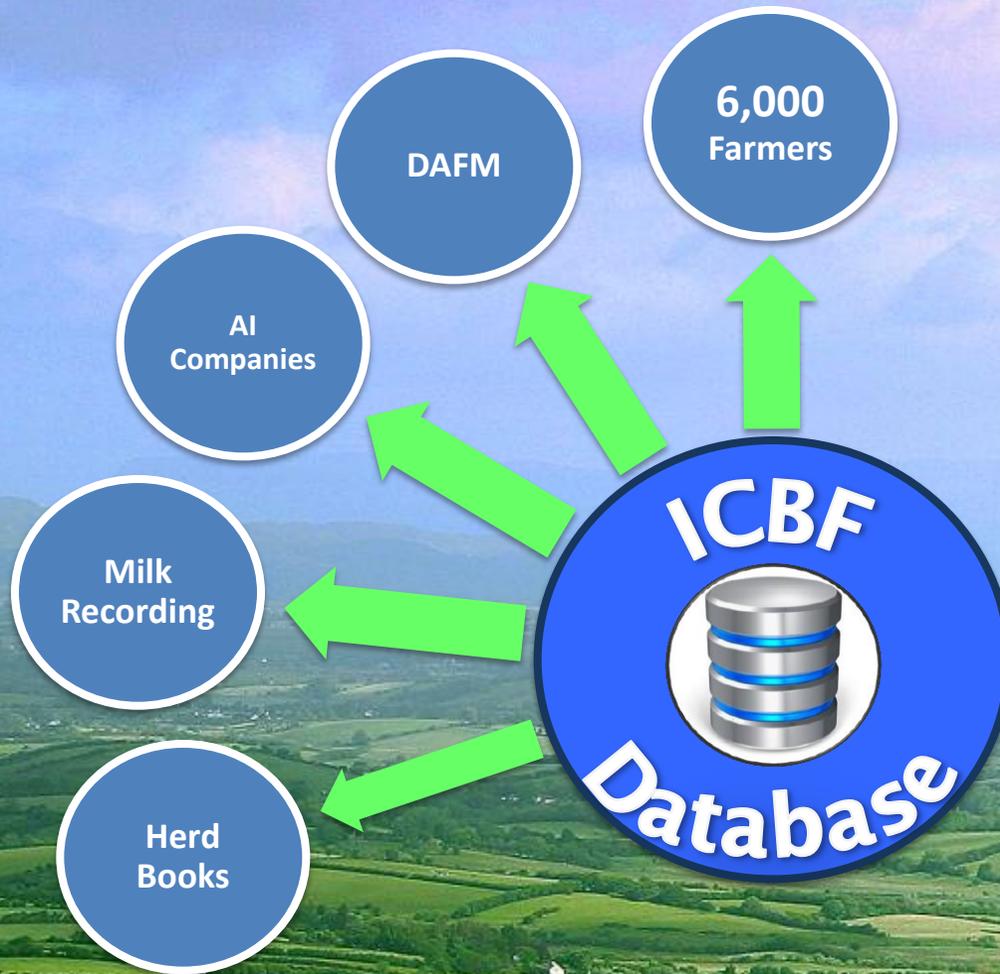
# ICBF Background

- ICBF Formally Established in 2000.
- Membership/Board: AI companies (18%), Milk Recording (18%), Breed Societies (18%) & Farmer Organisations (46%).
- Stakeholders in cattle breeding control decision making.
- Mission: *To achieve the greatest possible genetic improvement in the national cattle herd – Dairy & Beef.*

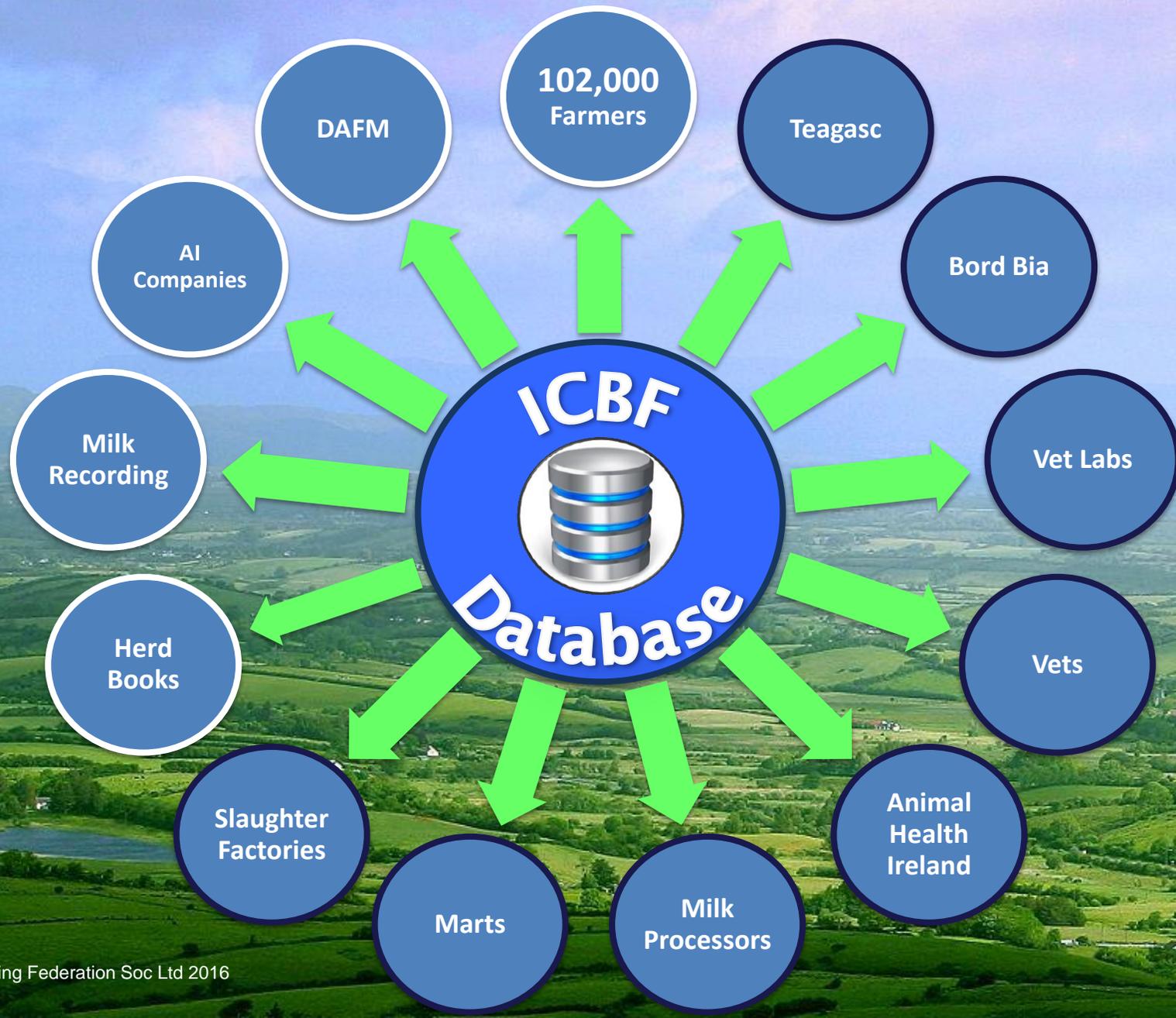
# Role of ICBF

- Focus on genetic improvement as a tool for improving future profit on Irish cattle farms.
- Establish & maintain a central database of performance data.
- Define a breeding goal and selection index (e.g. EBI & Euro-Star Index).
- Provide routine genetic evaluations for all relevant breeds and traits.
- Ensure a breeding scheme of optimal design is operating in Ireland (e.g. Gene Ireland).
- Ensure continuous improvement base on science.

# ICBF Database - 2000



# ICBF Database - 2016



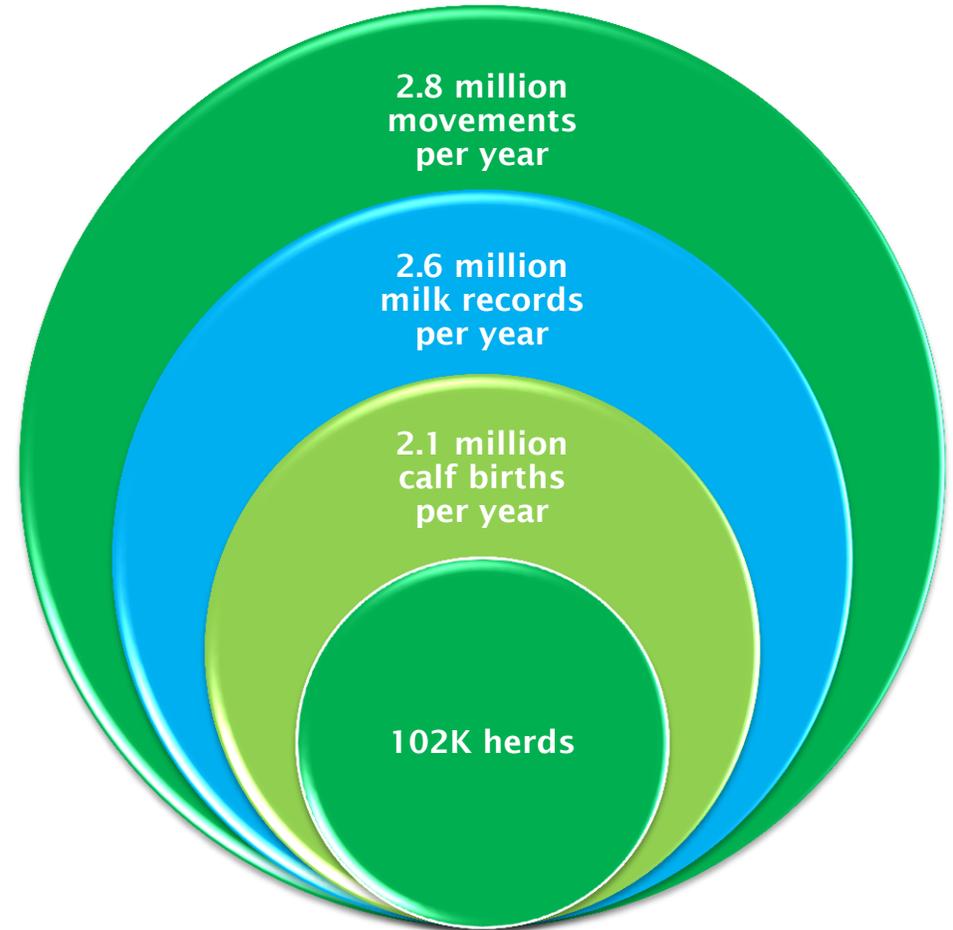


# What data do farmers record on ICBF

- Birth Registration
  - Sire, Calving Ease, Pedigree Name, Birth Weights
- Fertility Data
  - Heats, AI & Natural Serves, Pregnancy Diagnosis
- Dry-offs
- Health Events
  - Mastitis, Lameness, Scour, Pneumonia, etc.
- Liveweights
- Milking Speed (Tru-Test meters)
- Dept. of Agri. Schemes
  - Calf Docility & Quality
  - Dam Temperament, Docility & Milkability
  - Stock Bull Docility & Functionality, Culling Reasons

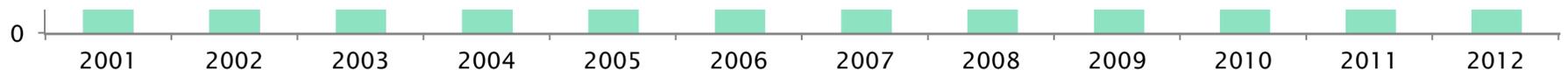
# Data in the ICBF Database

- Herds: 102k
- Live Animals: 6.2m
- Calving Records: 2.1m/yr
- Milk Recording: 2.6m/yr
- Farm Movements: 2.8m/yr
- AI Inseminations: 700k/yr
- Slaughter Data: 2m/yr
- BVD records: 2.1m/y
- Genomics: 8.6 billion



# Increase in Data recording

- 90% of the worlds data was created in the past 2 years
  - Mobile devices account for 17% - 27% by 2020
  - IOT accounts for 2%
- Volume of data in the world will double every 2 years
- ICBF examples:
  - Tully Feed Sensors
  - Health data – Liver Fluke, TB, Johnes
  - Spectra Data (OptiMir)
  - Genomics



# How do farmers record data on ICBF

- ICBF web site
- DAFM web site
- Farm software companies
- Animal Events Sheets
- Mobile Phones - Text Messages & Apps
- Handhelds:



AI & Linear Scoring



Scanning Data



Electronic Weighting Scales



# What is HerdPlus®

- Breeding information service which provides farmers with various reports and profiles on the performance of their stock
- These reports allow farmers gauge themselves against national averages and top performing herds e.g. Top 10%
- Other applications also available such as Dairy Sire Advice, Inbreeding Checker, Stock Reports
- 8,400 Dairy Herds, 12,750 Beef Herds.
- Cost - €60/year



# HerdPlus<sup>®</sup> Products

- Dairy HerdPlus

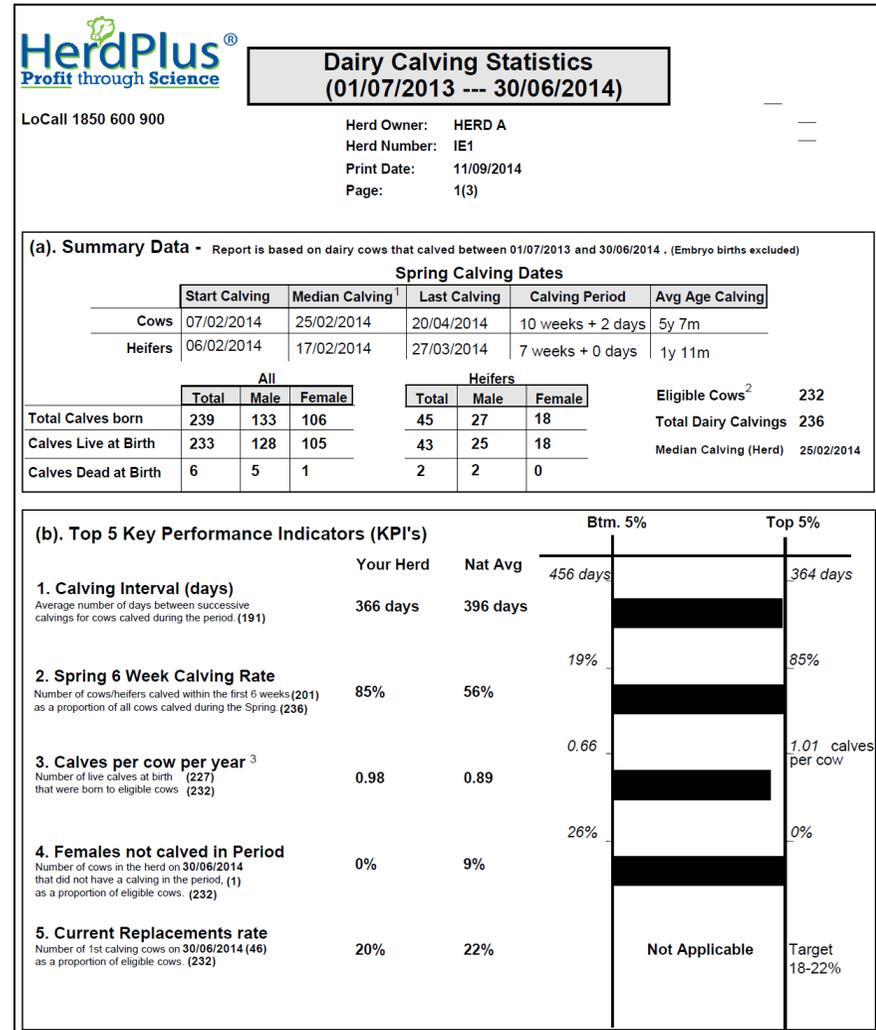
- EBI Report
- Sire Advice ✓
- Breeding Chart ✓
- Calving Report ✓
- Fertility Report
- Dairy Cow Report
- Pocket Notebook
- Herd Catalogue
- Stock Reports
- 5 Year Trend Report
- Discussion Group Reports ✓

- Beef HerdPlus

- Euro-Star Report
- Calving Report
- Suckler Cow Report
- Bull Tracker Report
- Pocket Notebook
- Herd Catalogue
- Stock Reports
- Weighing Report
- Slaughter Report
- Discussion Group Reports
- Beef Journal

# HerdPlus<sup>®</sup> Management Reports

- Allows farmer and/or adviser to summarise the herds performance and also benchmark against the national figures e.g. Dairy Calving Report;
- Allows performance of a herd to be assessed and identify areas for improvement;
- Key tool to allow a fast & cost-effective assessment of current performance;
- Provides a standardised approach to calculating the KPI's (Calving Interval, 6 week calving rate, calves/cow/year).
- Text reminders when reports are ready!



# Teagasc Discussion Group Reports

- Group report allows Teagasc advisors compare individual herds performance with group average and the group top performer;
- Major reduction of workload for advisor;
- More accurate data for constructive discussion.



## Discussion Group Dairy Calving Report

**Group Name:** MONITOR FARMS  
**Group Advisor:** AN Other

**Chairman:** AN Other  
**Secretary:** -

Name	Herd Id	Total No. of Calvings	Calving Interval (Days)	6 Weeks Calving Rate(%)	Calves per Cow per Year(%)	Females Not Calved(%)	Dead at Birth(%)
Farmer 1	IE1517166	187	374	82	0.98	2	0
Farmer 2	IE1514192	154	407	69	0.85	7	0
Farmer 3	IE1510137	122	373	68	0.98	0	2.4
Farmer 4	IE1418809	168	376	79	0.99	0	1.8
Farmer 5	IE2411956	166	373	86	0.98	0	4.7
Farmer 6	IE1510038	236	366	85	0.98	0	2.5
Farmer 7	IE2411030	100	377	67	0.95	2	3
Farmer 8	IE3415524	178	369	75	0.99	0	1.1
Farmer 9	IE1416542	329	370	77	0.98	0	3.9
Farmer 10	IE1512116	114	375	68	0.92	1	6.1
<b>Group Average:</b>		<b>182</b>	<b>374</b>	<b>76</b>	<b>0.96</b>	<b>1</b>	<b>2.6</b>
<b>Group Top:</b>			<b>365</b>	<b>87</b>	<b>0.99</b>	<b>0</b>	<b>0</b>
<b>Group Target:</b>							

# HerdPlus<sup>®</sup> Dairy Sire Advice

Which bulls should I choose to improve any weaknesses in my herd?

HerdPlus Dairy Sire Advice will help you to choose the most suitable bulls



# HerdPlus<sup>®</sup> Dairy Sire Advice

Traits		My Herd	Select Trait	
<b>Dairy EBI</b>	EBI	€ 200	<input checked="" type="checkbox"/>	Top 10% (267 Euros) ▾
	EBI Rel%		<input type="checkbox"/>	
<b>Sub Index</b>	Milk	€ 64	<input type="checkbox"/>	
	Fertility	€ 104	<input checked="" type="checkbox"/>	Top 25% (124 Euros) ▾
	Calving	€ -5	<input type="checkbox"/>	
	Beef	€ 29	<input type="checkbox"/>	
	Maint	€ 0	<input type="checkbox"/>	
	Management	€ 3	<input type="checkbox"/>	
	Health	€ -1	<input type="checkbox"/>	
<b>Milk Production PTA</b>	Milk (Kg)	172 Kg	<input type="checkbox"/>	
	Fat (%)	0.12 %	<input type="checkbox"/>	
	Prot (%)	0.08 %	<input checked="" type="checkbox"/>	Top 50% (.07 %) ▾
	Fat (Kg)	13.00 Kg	<input type="checkbox"/>	
	Prot (Kg)	10.00 Kg	<input type="checkbox"/>	
<b>Fertility PTA</b>	Calving Int	-5.50 days	<input type="checkbox"/>	
	Survival %	2.90%	<input type="checkbox"/>	

# HerdPlus® Breeding Chart



## Dairy Herd Breeding Chart

HerdOwner PAT CRONIN

NID IE14176

2008



Cow Tag	Cow FB	Cow EBI (E)	Milk (E)	Fert (E)	Cow Details						Proposed Bulls			PreServe Heat	Information					Preg Test Result		
					Cow's Sire	Mat Grand Sire	Lact No.	Date Calved	Calv Ease	T/A	Bull 1	Bull 2	Bull 3		Date	Date	Bull	Date	Bull		Date	Bull
IEFFTZ0054R	54	120	47	56	MAU		9	26-MAR-08	1		BWZ	RDU	GIO									
IEFFTZ0055P	55	94	20	59	LEW	OMR	9	16-MAR-08	1		BWZ	CZO	CBH									
IEFFTZ0068E	68	121	43	64	MAU	RSG	8				BWZ	RDU	GIO									
IEFFTZ0090M	90	93	59	19	JOS	KEM	9	01-MAR-08	2		WUZ	BWZ	CBH									
IE141763820127	127	138	45	76	LEW	WYT	7				BWZ	CZO	RDU									
IE141763880157	157	116	53	44	LEW	ARN	6				BWZ	CBH	WUZ									
IE141763860188	188	107	16	76	MAU	RSG	7	19-FEB-08	2		CZO	RDU	BWZ									
IE141763810217	217	84	13	71	AHD	ARN	5	12-FEB-08	1		CZO	RDU	GIO									
IE141763830219	219	80	37	51	AHD	ARN	6	05-FEB-08	1		RDU	CZO	GIO									



Animal ID, Ancestry & EBI, calving data

Suggested Matings

Record Heats & Serves

**Printed on A3 Sheets and put on the wall of the dairy/office**

# Summary

- The ICBF database is one of the most integrate cattle breeding databases in the world.
- Data is the lifeblood of ICBF – the more data; the higher the reliability.
- Collaboration is a key aspect of success in cattle breeding.
- HerdPlus is enabling Irish farmers make more profitable and efficient breeding decisions.

# Thank you for your attention



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