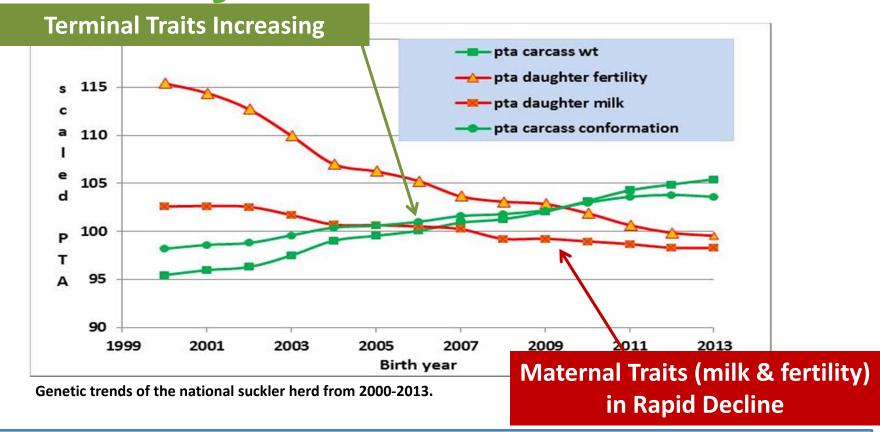


# Why Gene Ireland?





Past

- Huge emphasis on terminal traits
- Breeding heavier cattle with more muscle
- Maternal traits have suffered dramatically

**Future** 

# Gene Ireland Breeding Profitable Suckler Cows



# What is the Goal?



# Reverse the decline in maternal traits in the national suckler herd









Identify the best genetics in pedigree herds to breed

maternally strong bulls







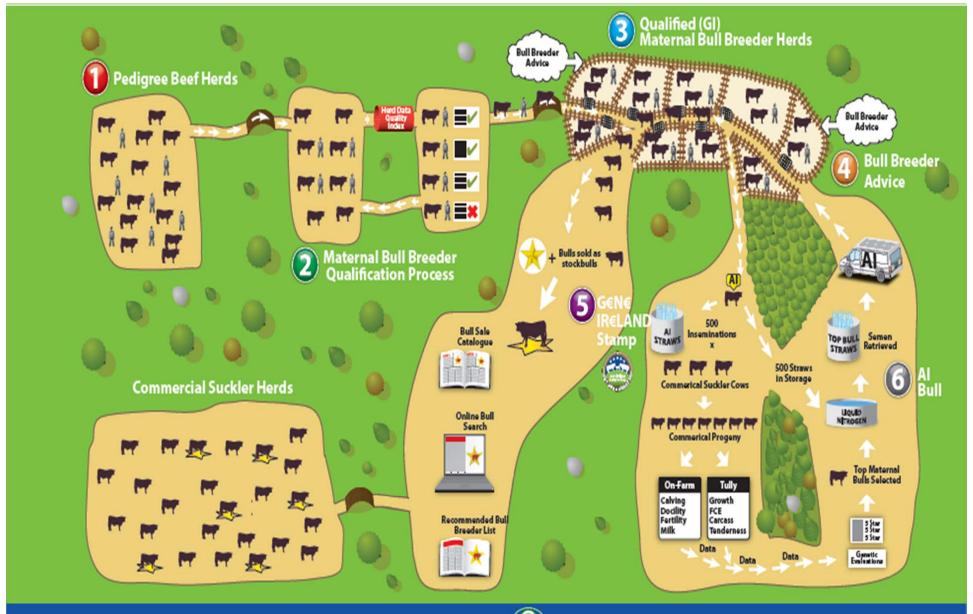






Disseminate these genetics to commercial herds via AI and stock bulls

#### **G€N€ IR€LAND Overview**





#### 1. Pedigree Breeders

- Over 5000 Pedigree Beef Breeders in Ireland (12 breeds)
- Producing over 10,000 pedigree bulls/annum
- Program is open for Pedigree Breeders to join at any time.
- Committee set up for each breed made up of:
  - Commercial Suckler Farmers
  - Pedigree Breeders
  - Breed Societies
  - Teagasc



#### 1. Pedigree Breeders

• Currently 225 Breeders signed up to the program

(Jun'14)

D	reed	OKC	D	roods
D	reeu	<b>E15</b>	D	reeds

38 Angus

9 Aubrac

3 Belgian Blue

4 Blonde d'Aquitaine

45 Charolais

9 Hereford

60 Limousin

10 Parthenaise

5 Saler

6 Shorthorn

23 Simmental





1.Pedigree Breeders



- Pedigree breeders undertake to do two things:
  - 1. Record high levels of accurate data on their pedigree stock.
  - 2. Place more emphasis on maternal traits when choosing bulls to mate with their cows.
- Pedigree Breeder's Data records are checked for their accuracy e.g. insemination records etc.
- The Stamp is awarded when the herd's data reaches a certain level.

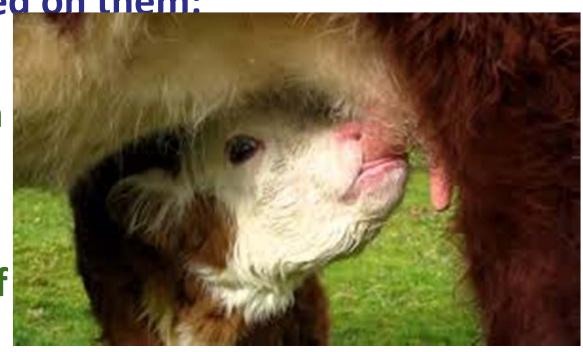


#### 2. Identify Bull Mothers

 All females in participating pedigree herds are Scored & Weighed.

Extra data collected on them:

- Udder Suspension
- Teat Size
- Teat Placement
- Width & Length of





# 2. Identify Bull Mothers

		Animal Deta		Ancestry Details								€uro-Star Index											
Jumb	00:	WANDA					HCJ	J				-		in Bree	ed	Economic Inc	lexes	Inde	x R	lel%	Ac	ros	ss Breed
Offici	Official Tag: IE311030820481					Sire's Sire	HILLCREST JEROME ET			*	* * * *		Maternal	€16	8 :	35%	* :	<del>*</del> :	* * *				
Δnim	Animal Name: MARSHA WANDA							NWQ00	)66E			*	★ ★ Terminal				€56	3	31%	* :	k		
~	Allilla Nalle WARSHA WANDA					Sire's Dan		MONADUFF JESSE								Dairy Beef	L						
Date of Birth:		15/01/2008										Expected Progeny Performance											
Bree	d:	SI (100%)		Sire	e:	IE2718229	50043	3								Calving Difficult	ty (%3&4)	5.7	% :	32%			
		,				CLOONDROON NUGGET				* * * * *			*	Docility (1-5 sca	le)	+0.1	8 5	54%	* :	<b>*</b> :	* * *		
		Pedigree Registered			n:	IE291364110185			*	×		Carcass Weight (Kg) +18 Kg 37%					* :	*					
		19/08/2008				BOYHER S	SNOWFLAKE				* * * *				Carc Conf. (1-1	+1.5	1 :	31%	* :	*			
Weig	hed:	19/08/2008				D 1 - 0 i	IE12	212855	20112							Expected Da	aughter	Breed	ing P	erfor	man	се	
BLU	P Index	(Reliability 45%)				Dam's Sire	•	CORLESMORE KIRK								Daught Calv Dif	5.79	6 :	29%_				
ми	JSCLE	SKELETAL	DOCILITY	,		Dam's Dan	IEYVMF0018E			* * * *				Daught Milk (Kg		9.7 K	-	_	*	<del>*</del> .	* * *		
	107	104				Dain's Dai	BOY	BOYHER HELEN				* *				Daught Calv Int.	0.76 D		28%	*			
		Calvina	0 =4:1:4.	. Danfa										. Ii	. 0								
		Calving	& Fertility	/ Perro	orma	ance			Ι		200	VV	eal	niinç	Jā	Carcass	2.6	. 6	anc	e			
	Calving	•		Calving		Current		Sire	Age				Pri	€ ce/Kild	0	Calf Quality	*	Ag	ge at		rcas	.   (	Carcass
	Date	Number	Survey	Interval	Sex	Status	Sire	Breed	days	Kgs	Kg/Da	y*					Docili	ty (m	onth	s) &	Fat		Weight
1	03/07/201	10 <b>S11</b>	84	ET	М	Exported	S682	SI	185	321	1.52	┪				Excellent	V.Qu	iet		Τ		Т	
2	05/07/201	10 IE1710598 <b>302</b>	81	ET	F		S682	SI	183	320	1.53	1				Excellent	V.Qu	iet		+		+	
3	15/09/201	10 IE1710598 <b>802</b>	86 Normal		F	Sold	S749	SI	274	365	1.19	7				V.Good	Quie	et		$\top$		$\top$	
4	19/09/201	11 IE1710598 <b>903</b>	37 Difficult	368	F	In herd	AIF	SI	276	423	1.39	1				Excellent	V.Qu	iet					
	06/10/201			382	М		S682	SI	243	427	1.59					Excellent	V.Qu						
6		13 IE1710598 <b>104</b>		ET	F		S682	SI	190	331	1.53					V.Good	V.Qu	iet					
7	13/02/201	14 IE1710598 <b>104</b>	86 Normal	494	М	In herd	S1037	7 SI															

Marsha Wanda – the dam of one of the 2014 Gene Ireland Young Bulls - KDZ



#### 2. Identify Bull Mothers





- Curaheen Dickens (KDZ) Curaheen Warrior x Marsha Wanda.
- Ploughing Championship 2013 Norbrook Champion Bull
- Gene Ireland Youngbull Spring 2014
- Milk in the backpedigree Hillcrest Jerome.
- Bloodline has bred well.
  - Full Brother: Curaheen Buck €6100 to the pedigree Simmental Jalex herd in Antrim.
  - Full Sister: Auroch Belle €8000 to the pedigree Simmental 'Hillcrest herd in Offaly.
- Full Sister: Curaheen Elegance (Born: 2<sup>nd</sup> Oct 2013).



#### 3. Identify Bull Fathers

#### Each Committee selects Maternally strong Al Sires



**Repair** 

- Proven Maternal Sire
- French Maternal Index: 111
- Easy Calving
- 4.5 Stars Replacement Index
- 5 Stars Daughter Milk



**On-Dit** 

- Proven Maternal Sire
- French Maternal Index: 121
- Easy Calving
- 5 Stars Replacement Index
- 5 Stars Daughter Milk



#### 3.Identify Bull Fathers





- ICBF has 5 Herd Liaison Officers to assist Breeders:
- Selecting what bulls to use on their cows.
- Ensuring that their data is recorded accurately.
- Liaising with Breeders over all aspects of the program.



#### 4. Select the Young Bull

- 1. Young Pedigree Bull calves with high Indexes identified
- 2. Breed Committee decides on the selection criteria:
  - Replacement Index
  - Back Pedigree
  - Physical Appearance



- 3. Bulls meeting the criteria are inspected.
- 4. Results of inspections reviewed by each committee.
- 5. Preferred Bulls purchased for progeny testing.
- 6. Al Company Bulls that meet the same criteria are also included.



**After Bull is purchased by Gene Ireland:** 

- 1. Health Tested for entry into Al Station.
- 2. 1000 doses collected off each bull.
- 3. 500 straws made available for progeny testing.
- 4. 500 straws stored away for future pedigree breeding.
- 5. Following semen collection the bulls are sold.



















- Over 20 young beef bulls have been sourced from participant's herds so far in 2014.
- 500 straws from the best of these after the progeny test, will only be available to Bull Breeder Herds.



YCM – Clewbay Highmaster

Selected by the Charolais Breeding Committee





- Purchased by Gene Ireland
- 1000 straws collected off him
- Why was Gene Ireland interested in him?

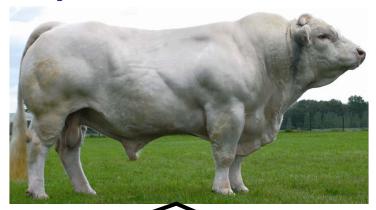


#### Dam of YCM – Clewbay Daisy

		<b>Animal Detai</b>		Ancestry Details									€uro-Star Index									
Jumb		371 IE272285830371			Sire's Sire: FR5898106514 ORIENTAL							Bre∉ ★		Economic Ind Maternal	exes	Index €89	Rel% 35%	★		s Breed		
Animal Name: CLEWBAY DAISY						Sire's Dan	FR	7194109	870			*				Terminal		€96	31%	*	* 1	(
Date	of Birth:	12/12/2008				0000	JACOBINE									Dairy Beef Expected Progeny Performance				nce		
Date of Birth: 12/12/2008  Breed: CH (100%)				Sire	:	SLV										Calving Difficulty	y (%3&4)	7.2%	37%			
					BOVA SYLVAIN					* *	*	*	4:	Docility (1-5 scal	e)	+0.10	47%	*	* *	* * *		
Herdbook: Pedigree Registered				Dam	1:	IERLHK0089Q						*				Carcass Weight	(Kg)	+26 Kg	32%	*	* *	<b>t</b> ≯:
Scored:					LOUISBURGH ORGAN						d:		Carc Conf. (1-15 scale)				+1.57	30%	*	*		
Weig	Weighed:					Dam's Sire	: KCEM009					Expected Daughter Breeding Performance										
BLU	BLUP Index (Reliability 37%)						CLO	CLONKEEFY MACINERNY								Daught Calv Diff	(%3&4)	3.7%	32%			
MU	JSCLE	SKELETAL	DOCILITY			Dam's Dam: LOB004						* *	* *	*		Daught Milk (Kg)	)	-4.2 Kg	57%	*	de .	
	97	107					LOI	LOUISBURGH BRONAGH				* *	* *	*	*	Daught Calv Int.	(Days)	-3.73 Days	32%	*	* *	* *
		Calving 8	& Fertility	Perfo	rm	ance					1	We	an	ling	g 8	Carcass	Perfo	rman	се			
										面			<b>{</b>	E		7 <b>A</b>	观			7	ON NOTICE AND NOTICE A	
	Calving Date	g Tag Number	Calving Survey		Sex	Current Status	Sire	Sire Breed	Age days	Weight Kgs	Growti Kg/Day		rice	e/Kil	0	Calf Quality	Docilit	Age Slaug (mon	ht. (	arcas Conf. & Fat	. C	arcass Weight
1	23/09/20	11   IE2722858 <b>1041</b>	1 Normal	T	М	Exported	PTE	СН	265	408	1.39	1				Excellent	V.Quie	et			$\top$	
2	20/09/201	12 YCM	Normal	362	М	Sold	REP	СН	179	264	1.25	T				Average	V.Quie	et				
3	28/08/20	13 IE2722858 <b>304</b> 4	6 Normal	341	M	In herd	RRZ	CH	196	352	1.59	Т				Excellent	V.Quie	et			$\top$	



• Sire of YCM – 'Repair'







'Maternal' Bulls can have good beefing ability as well!



#### What happens the 500 straws of YCM?

- 1. Herds are signed up to take the Testbull semen.
- 2. Semen orders are dispatched.
- 3. Inseminations take place & calves are born.
- 4. Calves are followed up on
  - 1. Calving Survey
  - 2. Weight Gain % of his weanlings are weight recorded.
  - 3. Feed Efficiency % of his weanlings are purchased for finishing here in Tully.
  - 4. Carcass Merit The cattle killed through Tully have their carcasses assessed.
  - 5. Daughter Performance Daughters are monitored in progeny test herds for:
    - 1. Growth weight gain & conformation of their progeny.
    - 2. Milk & Fertility of his daughters.



# 5. Progeny Test - Beef



- Weight Gain
- Feed Intake
- CarcassConformation





4. Progeny Test - Milk



2 Commercial Bulls born in the same herd on the same day & sired by the same Sire

**651** 

(85% LM/ 15% BB)

**317Kgs** 

Dam: 471



652

(85% LM/ 15% CH)

**367Kgs** 

Dam: 471



50Kgs
Difference - a portion of this is the milk of their dam's



#### 5. After the Progeny Test

#### **Proven Bulls**

- Bulls that return to the programme as elite bulls after the progeny test will be used as future bull fathers.
- Semen from these bulls will be used by bull breeder herds to breed the next generation of elite young bulls for testing.
- By repeating the process again and again and again the result is:

#### **Genetic Gain**

