2016
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14º World Holstein Conference
Buenos Aires - Argentina
March 28th - April 3rd
Let's Imagine the Future

Andrew Hunt
Founder – The Bullvine

THE FUTURE OF GENETICS

My wife said if I buy one more show animal she would leave me....

Sure gonna miss her on show day.

www.thebullvine.com

THE NEWS

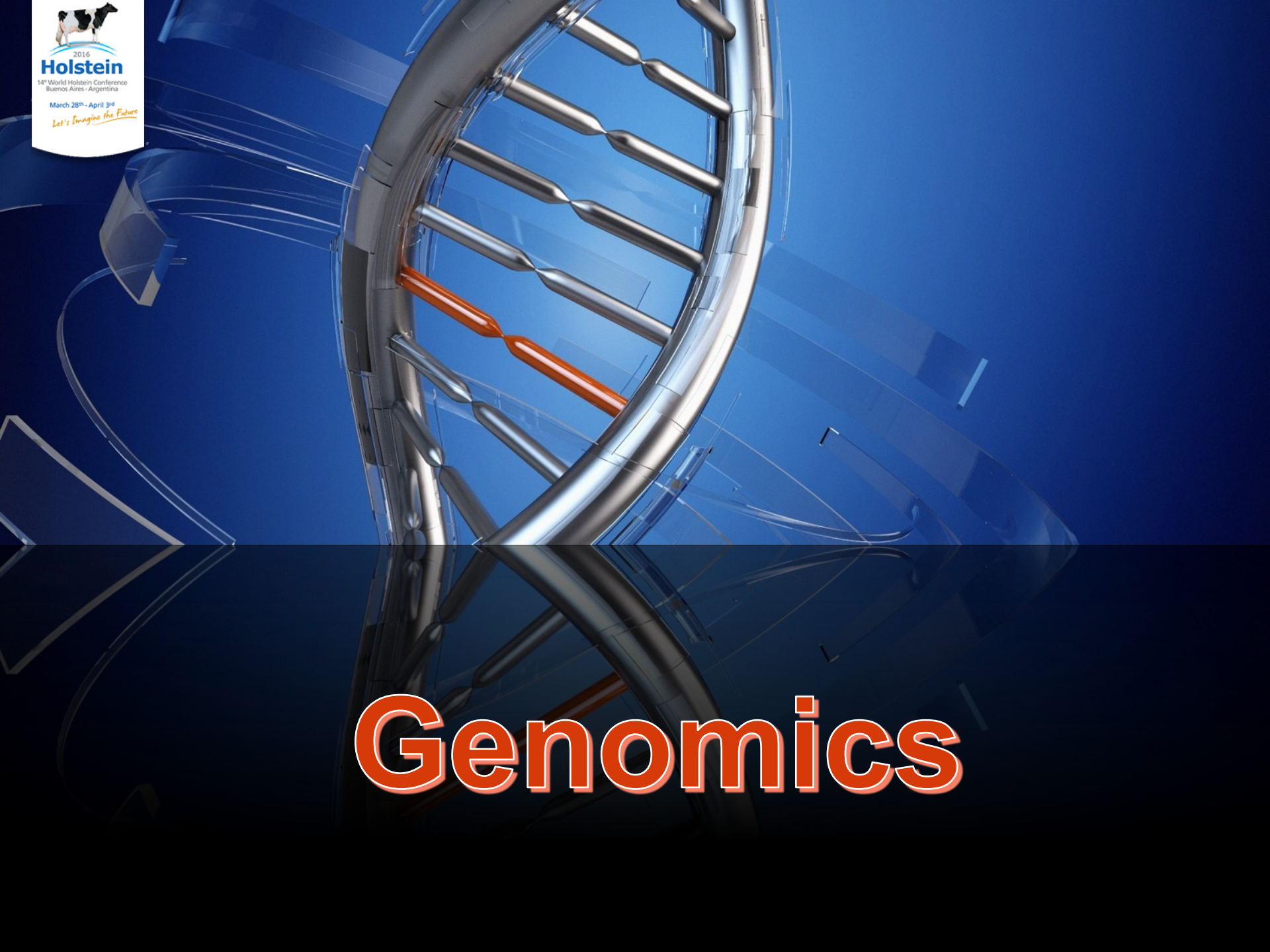
MASTER BREEDER KILLED IN TRIPLE HOMICIDE

Technologies like IVF and Sexed Semen and ownership of genetic rights and females by AI companies have killed the dairy cattle breeding industry. More specifically they have taken things to such a level that the days of the average individual breeder being able to make a little money from selling genetic stock are long dead.

It was first believed that when the exclusive use of genomic information by AI units was going to be lifted (April 2014) that dairy breeders who owned top sires were going to cash in. And while it did happen, it was very short lived. As we predicted here at The Bullvine, these AI units needed to control their costs of sire acquisition and so the majority of them went out and started buying their own females. All except Semex, (Read more: Should A.I. Companies Own Females?, Why Good Business for A.I. Companies Can Mean Bad Business For Dairy Breeders and Semex – The Rise and Fall of a Semen Empire)

Now there are those who believed that, if these had been the only changes, that breeders would have been able to compete, as history had many instances where breeders were able to out perform the geneticists at the AI companies.

The biggest difference this time is that dairy breeders and genetics are not playing on a level playing field. Technologies like IVF have significantly changed the game. When this whole rat race started, breeders and AI companies alike took advantage of extensive IVF work to accelerate their rate of genetic gain. But more accurately, that allowed them to cover up their mistakes. You see IVF does not make you a better breeder, but rather, gives you more chances to make mistakes. Instead of only being able to select 3 or 4 crosses on a cow a year and get about 10-18 progeny from your top animals, IVF allows companies to make selections every 2 weeks, or up to 26 crosses a year, resulting in hundreds of progeny a year. The challenge with this is that it's a very costly expense and breeders, as a result of low royalty prices on sires and next to no genetic female sales, cannot afford to IVF their top animals as much as AI companies who stand to make significantly more from the sale of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Hey there brother, the genomic tests are back and guess what?


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Sexed Semen


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E SCENE CRIME SCENE


NEW RELEASE SIRE
SOME BULL X BLOWN BAG
HAS BEEN GENOMICALLY TESTED FOR THE UGLY GENE
Dude
00H1234 HE IS ONE UGLY DUDE
Check out what breeders are saying:
He is one ugly bastard
The quickest way to kill your breeding program
When used on 2 years olds, 1 in 10 make it out alive
I no longer have to worry about the milk check, because there isn't one.
He is not inbred it's linebred
G-USDB 8-12
1 dtrs. 20 herds
PTAM +10000
PTA%F -2.00
PTAF +1000
PTA%P -1.00
PTAP +1001
REL. 1%
PL -10.0
SCS 9.99
Calving Ease 10
USDB/HB 8-12
20 dtrs. 1 herds
PTAT -5.00
UDC -2.30
REL. 1%
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The Bullvine
May 13th, 2013

WHY GOOD BUSINESS FOR A.I. COMPANIES CAN MEAN BAD BUSINESS FOR DAIRY BREEDERS.

WHY GOOD BUSINESS FOR A.I. COMPANIES CAN MEAN BAD BUSINESS FOR DAIRY BREEDERS.

By *Andrew Hunt*

Just about a year ago we drew attention to the fact that, when Dairy Breeders could genomic test their own bulls, it would start to cause the beginning of the end of the seed stock business (Read more: How Genomics Is Killing The Dairy Cattle Breeding Industry).These predictions were pretty easy to make because these changes were necessary in order for A.I. Companies to thrive in this new genetic environment. With March 2013 now behind us and breeders able to genomic test their own sires, these predictions are coming true. The challenge with these changes is that, while they make great business sense for the artificial insemination companies, they could spell the end of the seed stock business, as we have known it

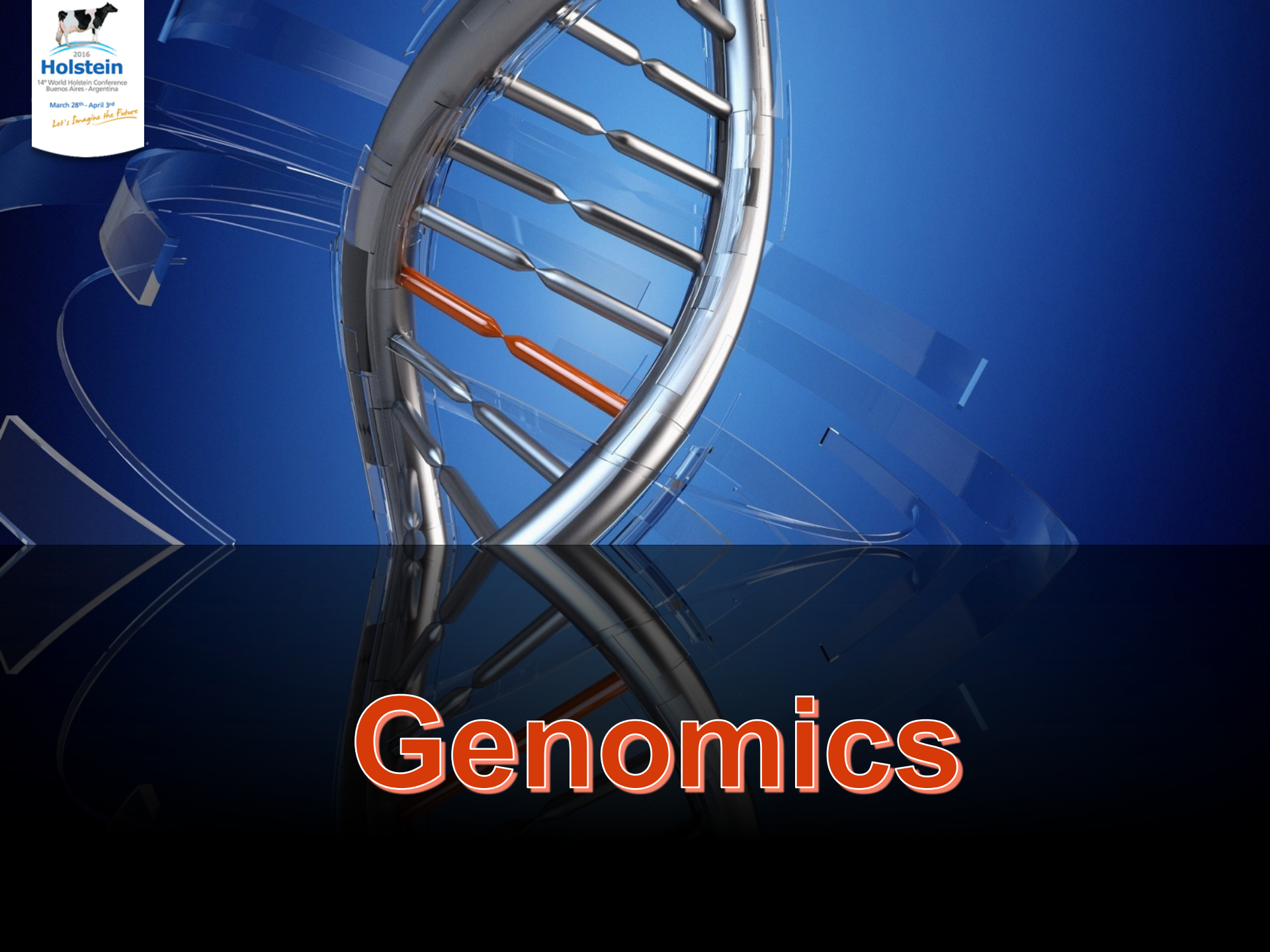
At the recent Farnear Focus on the Future Sale, Alta Genetics paid $185,000 for a Massey daughter from Larcrest Case VG-86-2yr with a gTPI of +2505 (Read more: Farneer Focus on the Future Sale Averages $15,471 on 112 lots) . While Alta Genetics owning females is not new (Read more: Should A.I. Companies Own Females?), it does mark the resurgence of their program and certainly a significant investment by Alta Genetics probably indicating that they are looking for new ways to control their sire procurement costs. Of course Alta Genetics is not the only A.I. company that currently owns females. Others, especially some of the smaller companies, have taken to owning top females in order to secure procurement of valuable and unique genetics and to differentiate their genetic offering (Read more: A Wake-Up Call To All A.I. Companies). There are also those who have taken a very public stance against ownership of females (Read more: Select Sires vs. Semex – A Contrast in Cooperatives). This too may be a move to watch, as the competition for breeder-bred bulls will decrease with less competition for them from other A.I. companies. Thus Semex and others too may start to see procurement costs subside. Of course the market will decide just how low this price will go, as the other studs will always be watching the cost of production versus the cost of procurement.

About The Author

About the Author

Andrew Hunt (526 Posts)

Having grown up a rural dairy farm in southern Ontario, Andrew learned early in life the value of community and a hard day's work. Leveraging that experience and work ethic, Andrew started his own Animal Genetics marketing company that launched some of the most engaging and innovative campaigns.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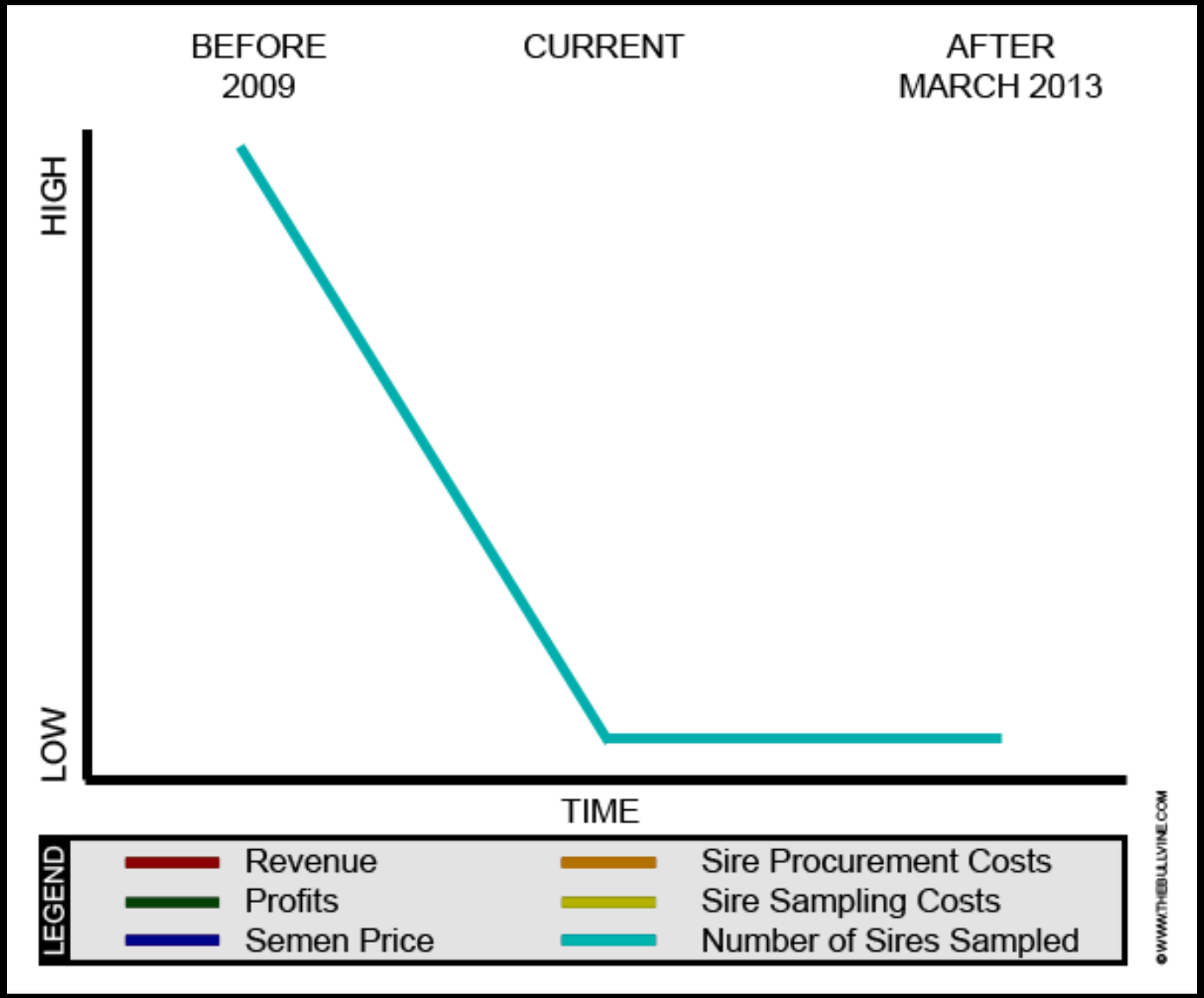
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Sire Sampling Costs
Number of Sires Sampled
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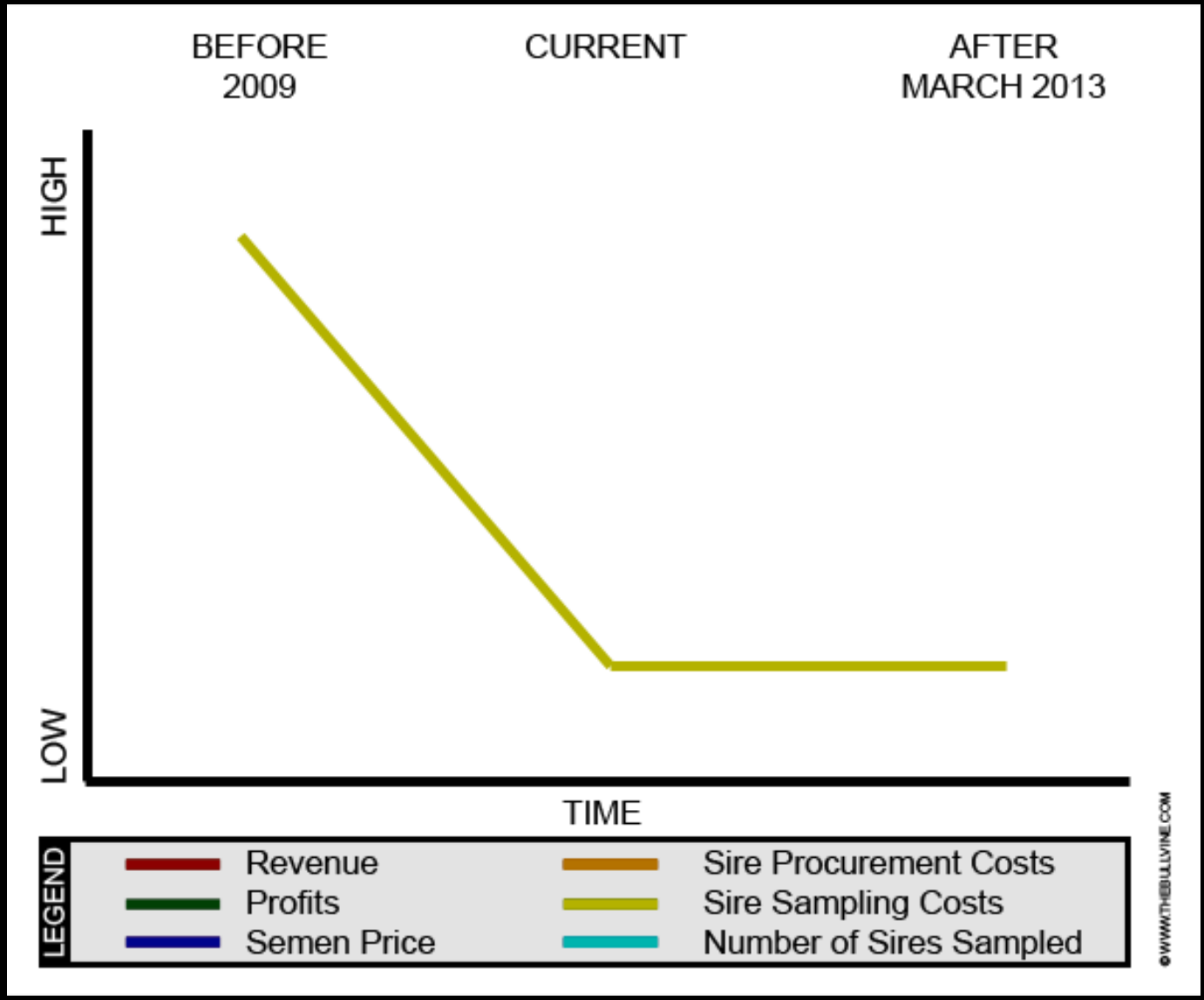
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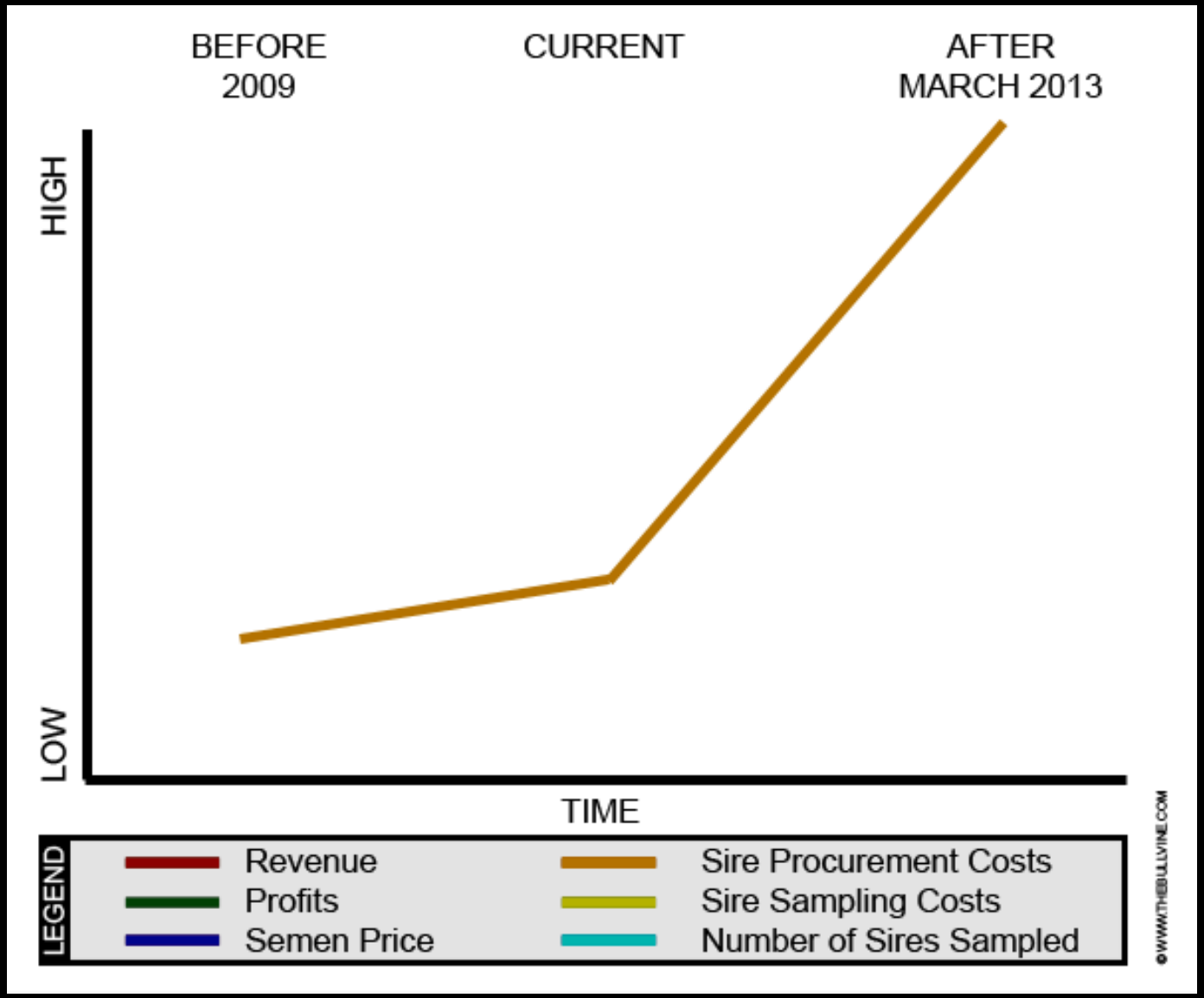
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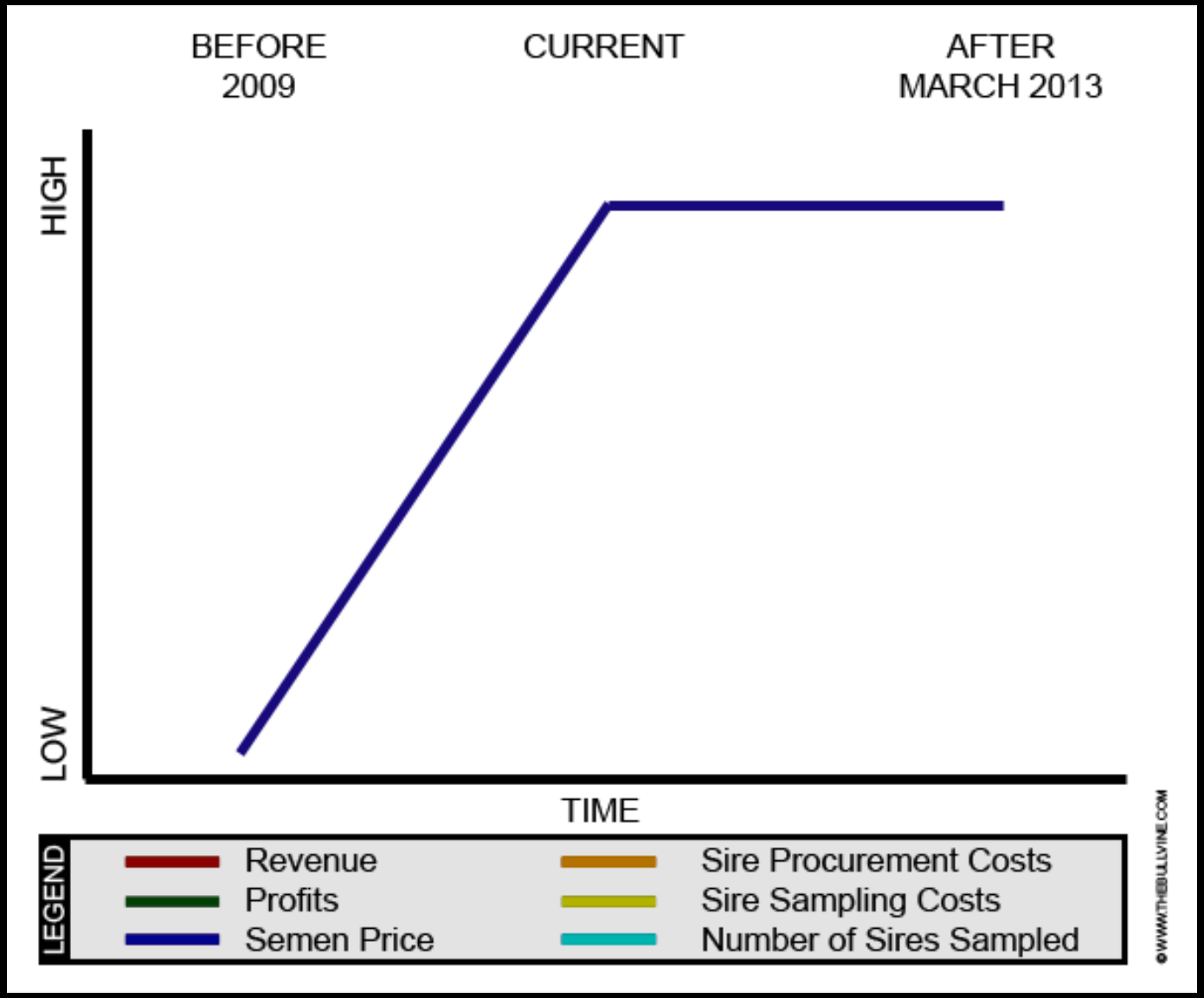
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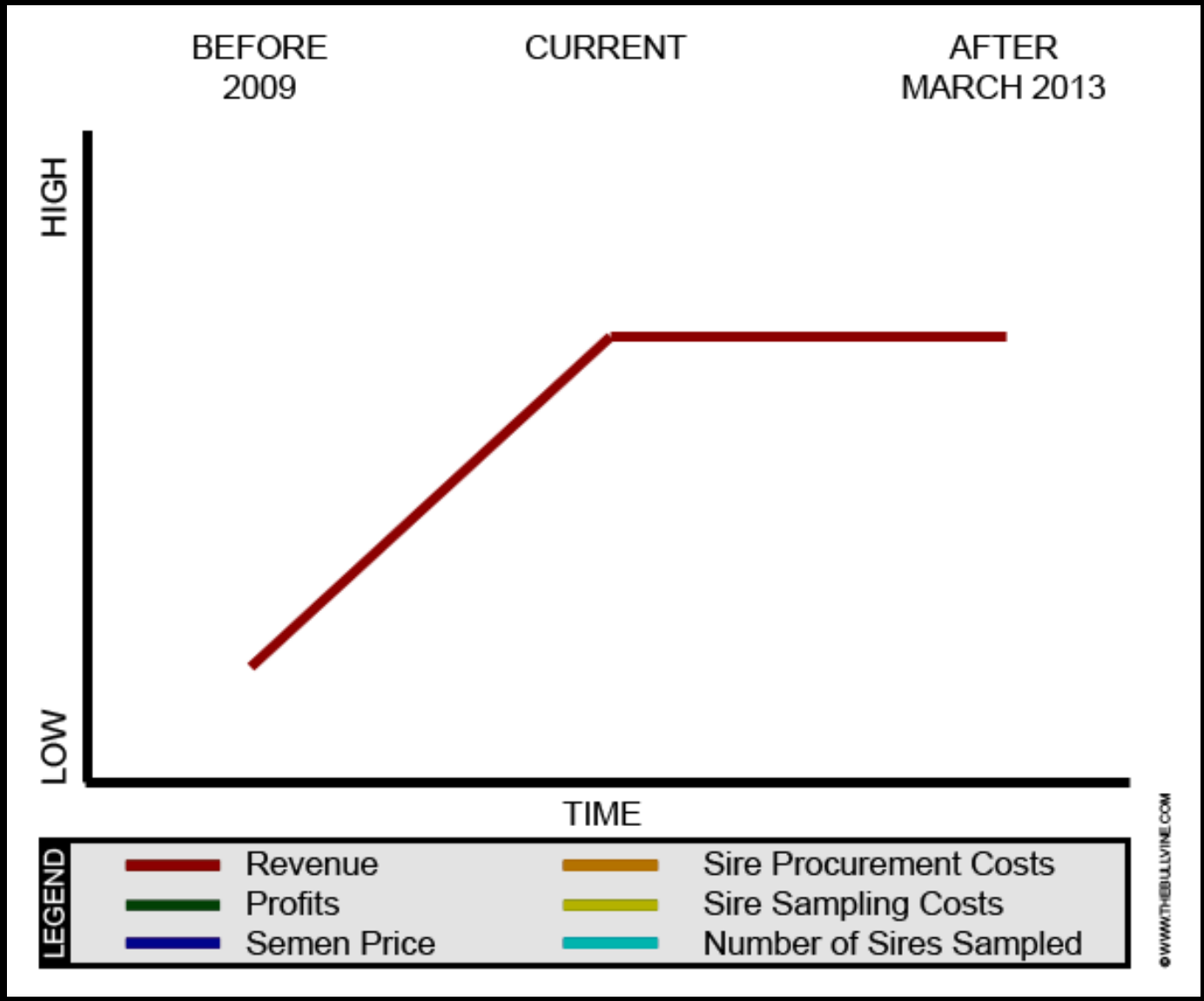
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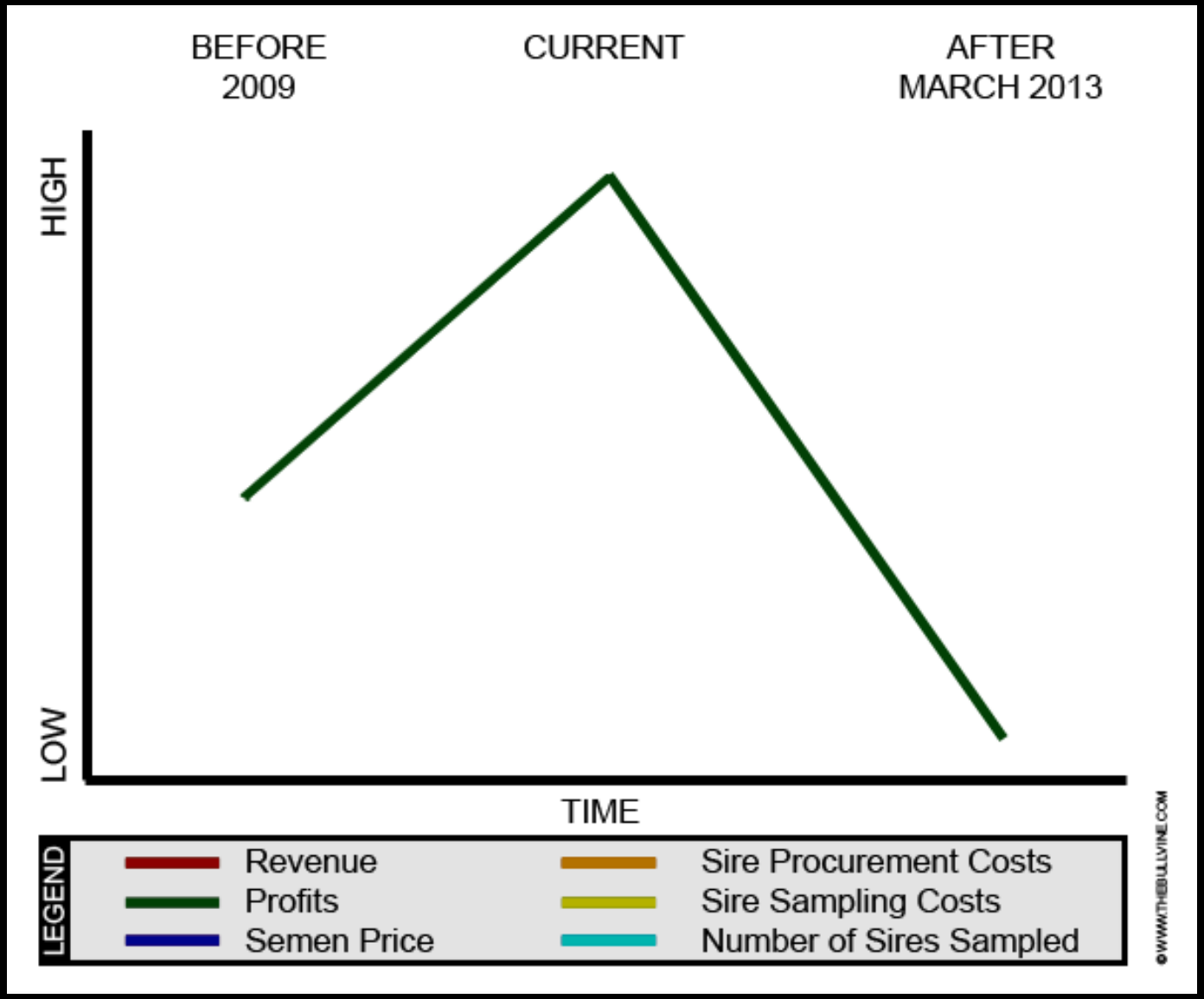
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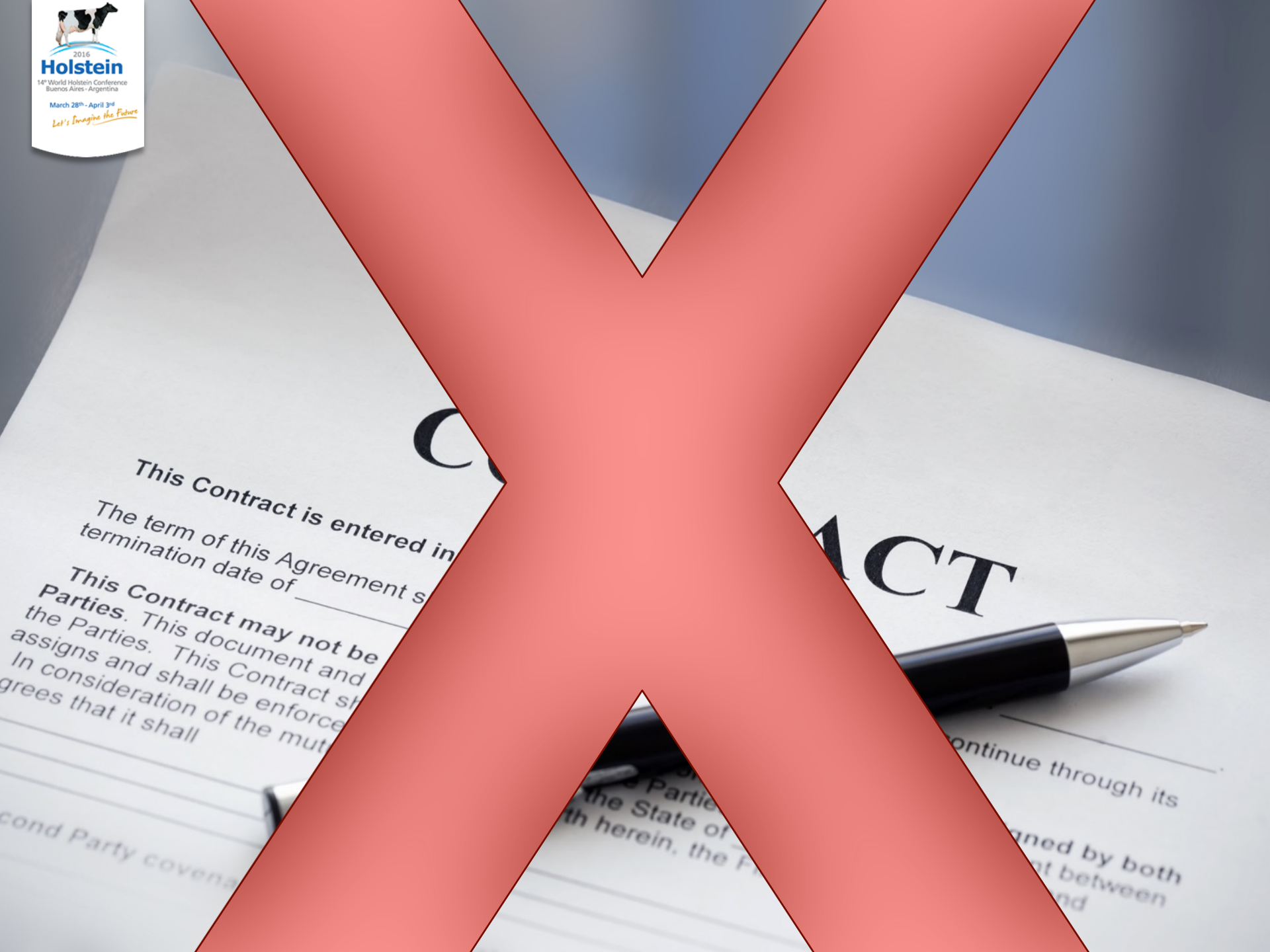
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DAIRY BREEDERS
VS
GENETIC CORPORATIONS
WHO ARE THE TRUE MASTER BREEDERS?

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Is This Your Ideal Cow?


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THIS IMAGE IS NOT A REAL COW AND IS FOR DISCUSSION PURPOSES ONLY


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What style of 1st lactation FEMALE do you think will last the longest and produce the most milk over her lifetime?


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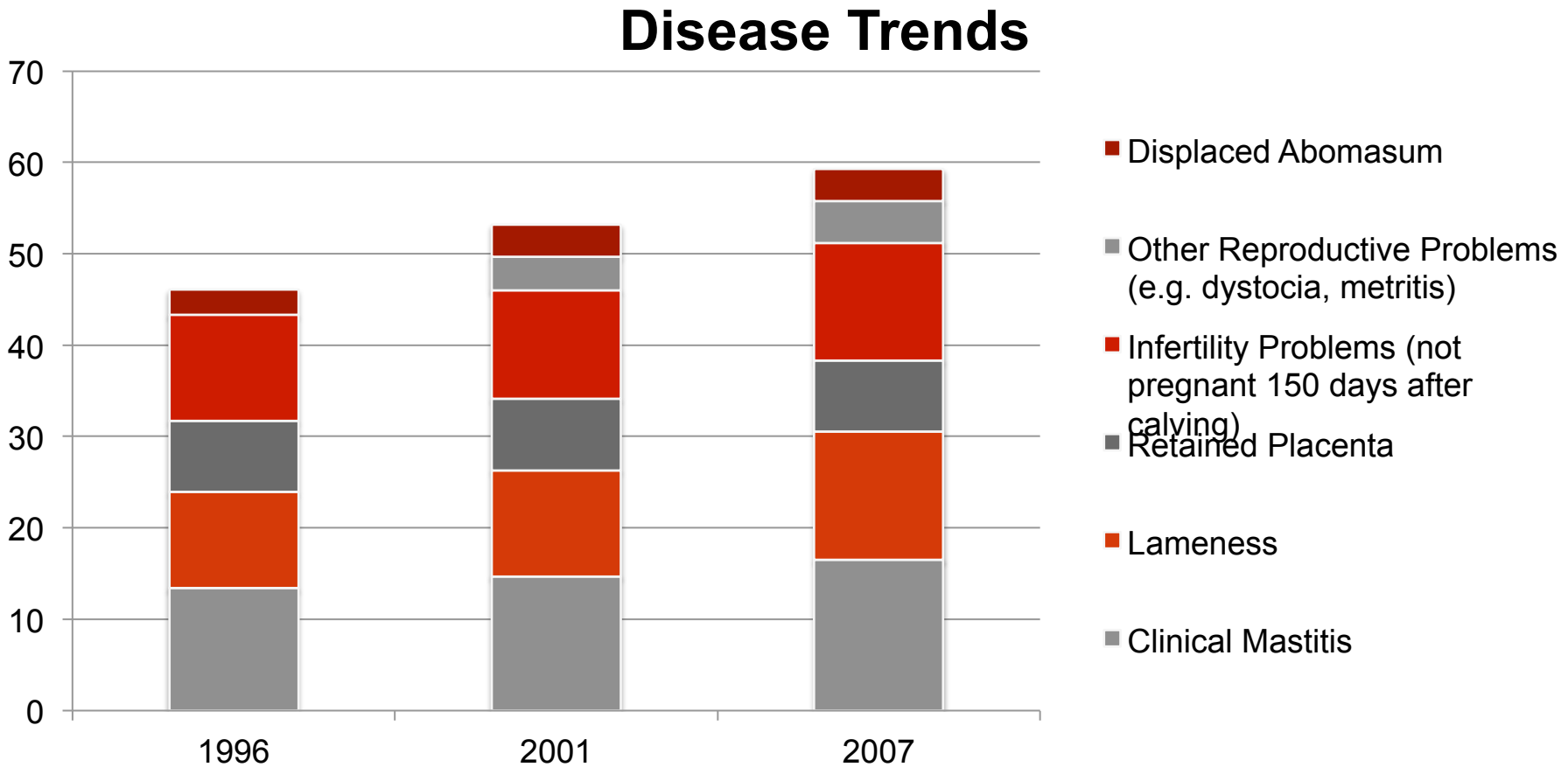
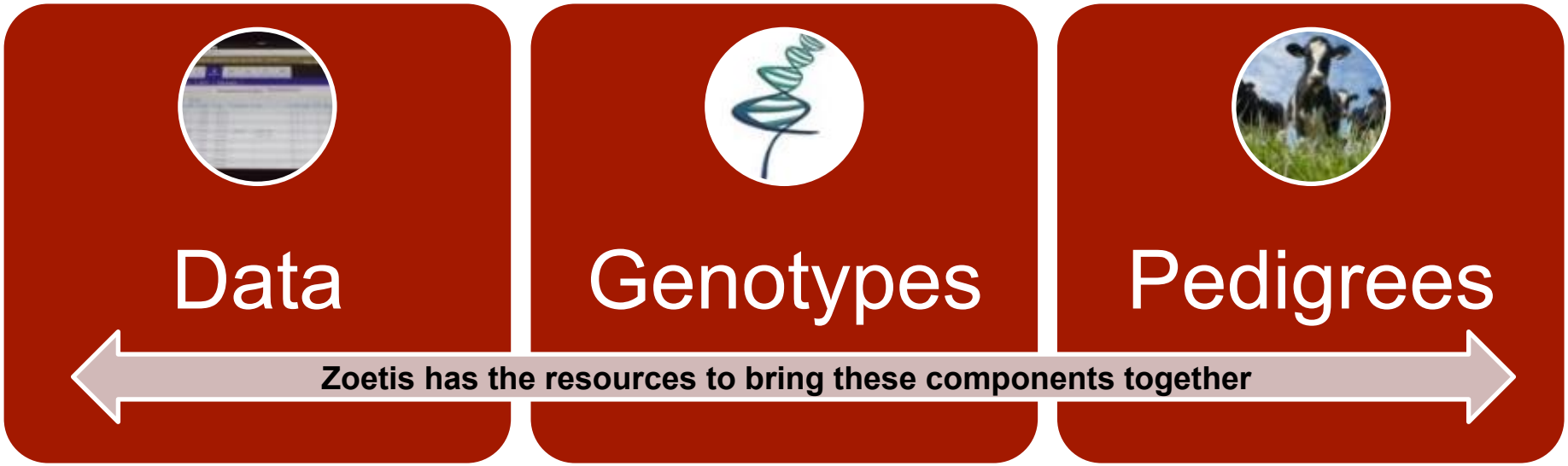
Dairy cow morbidity trends



USDA. 2008. Dairy 2007, Part II: Changes in the U.S. Dairy Cattle Industry, 1991–2007 USDA-APHIS-VS, CEAH. Fort Collins, CO #N481.0311.

Creating wellness TRAIT genomic predictions



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CDCB OFFICIAL EVALUATION

- PARENTAGE
- PRODUCTION
- REPRODUCTION
- HEALTH
- TYPE

+

WELLNESS TRAITS

- MASTITIS
- LAMENESS
- METRITIS
- RETAINED PLACENTA
- DISPLACED ABOMASUM
- KETOSIS

+

GENETIC CONDITIONS

- POLLED (NO FEE)
- MILK COMPONENTS
- INFERTILITY HAPLOTYPES
- OTHER GENETIC CONDITIONS*

* CVM, Brachyspina and Beta Casein A2 available with add-on fee.

DWP$™ ANIMAL RANKING

Bottom line, Direct selection is best!

- To make the most genetic and phenotypic progress in a trait, use direct selection, not indirect
- Examples:

Goal	Indirect trait	Direct trait	Estimated correlation
Improve reproduction	PL	Daughter Pregnancy Rate (DPR)	0.64
Reduce mastitis cases	SCS	New genomic Mastitis trait	-0.45
Reduce lameness	PL	New genomic Lameness trait	0.28
	FLC	New genomic Lameness trait	0.00
Reduce metritis	PL	New genomic Metritis trait	0.32

Source: Data on file, Zoetis internal data, August 2015, Zoetis Inc.

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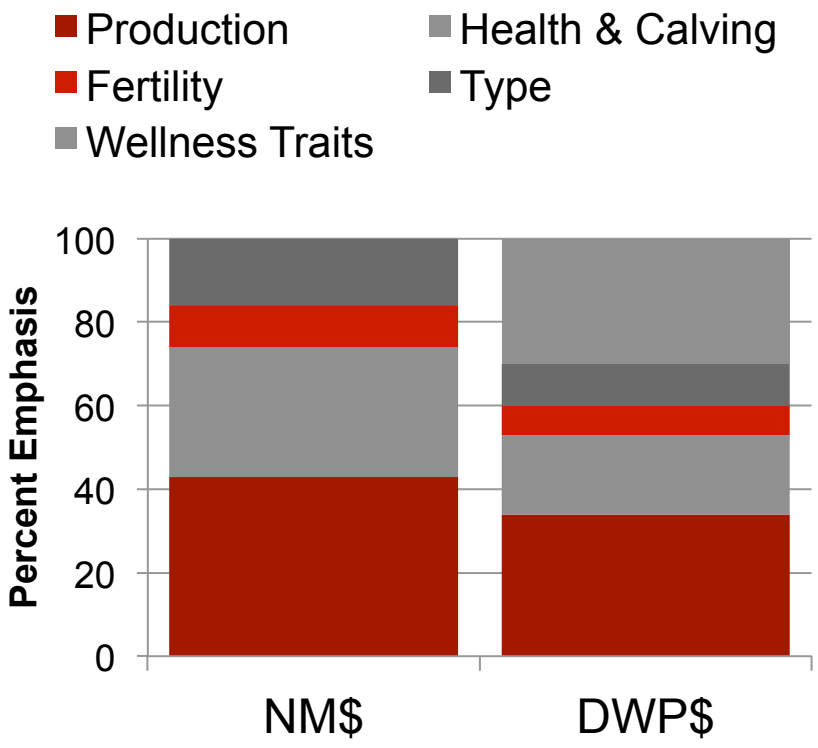
Response to selection

Trait	NM$	DWP$	
MILK	246	**200**	↓
FAT	16	**14**	↔
PROT	10	**9**	↔
PL	1.7	**1.7**	↔
SCS	-0.06	**-0.06**	↔
BDC	0.01	**-0.02**	↔
UDC	0.25	**0.21**	↔
FLC	0.18	**0.16**	↔
DPR	0.60	**0.69**	↑
CA	8.32	**8.40**	↔
HCR	0.56	**0.53**	↔
CCR	0.89	**0.94**	↔
MAST	0.86	**2.09**	↑↑
LAME	1.04	**2.02**	↑↑
MET	1.64	**2.37**	↑↑
RP	-0.01	**0.41**	↑↑
DA	1.72	**2.05**	↑↑
KET	1.69	**2.04**	↑↑



Source: Data on file, Zoetis internal data, August 2015, Zoetis Inc.

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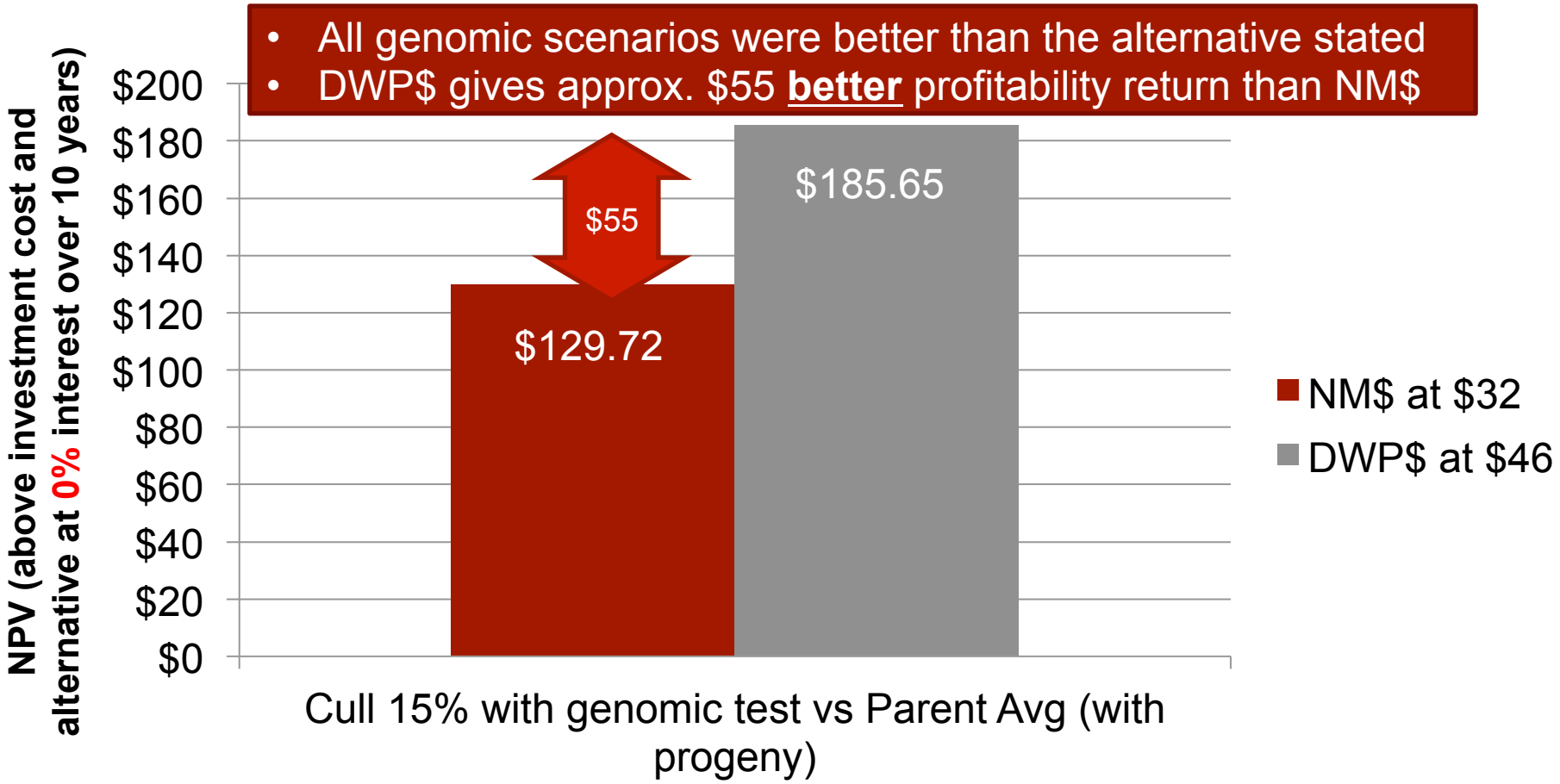
CLARIFIDE Plus provides a better return!



Data on file, Dec.2015 Data Package, Zoetis Inc.

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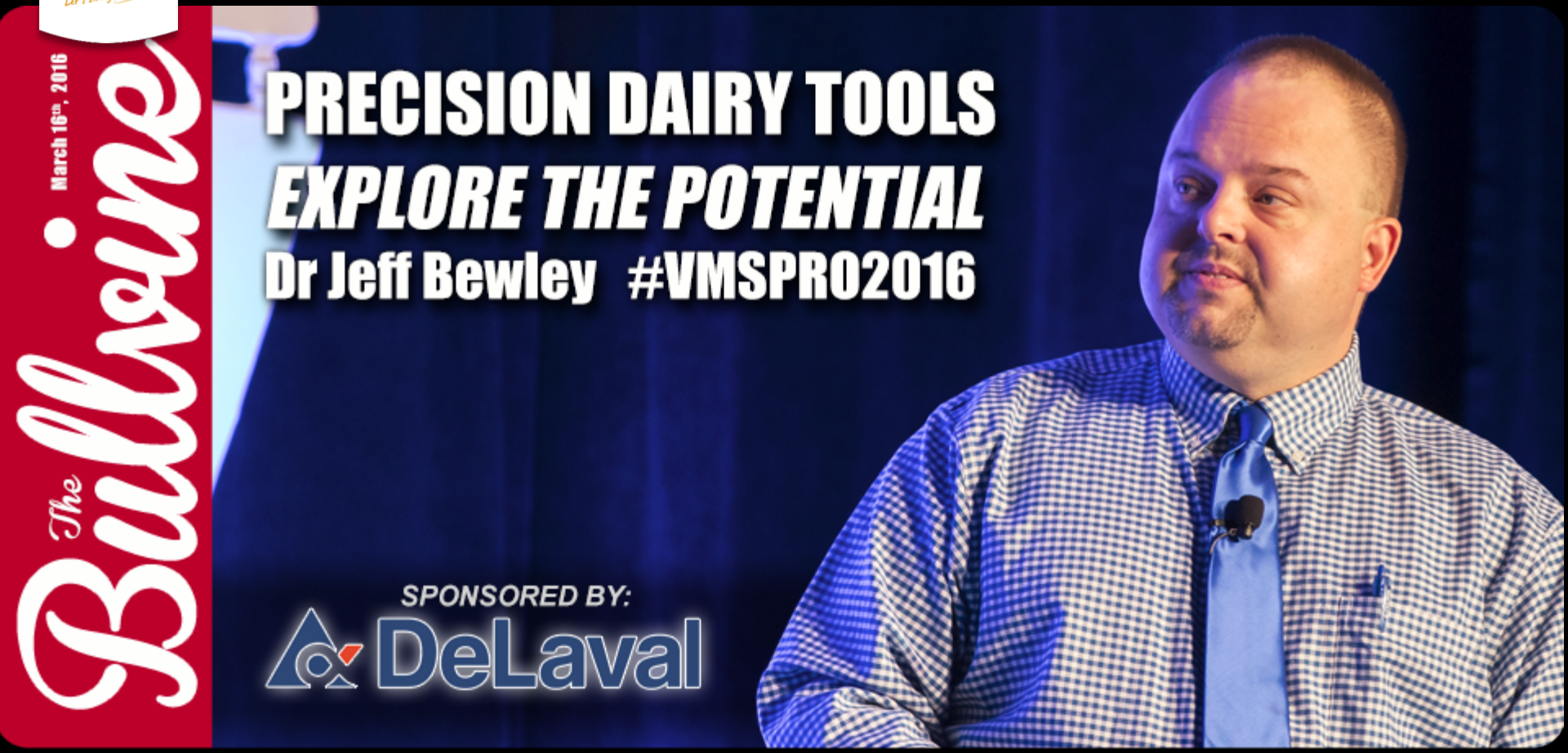
March 16th, 2016



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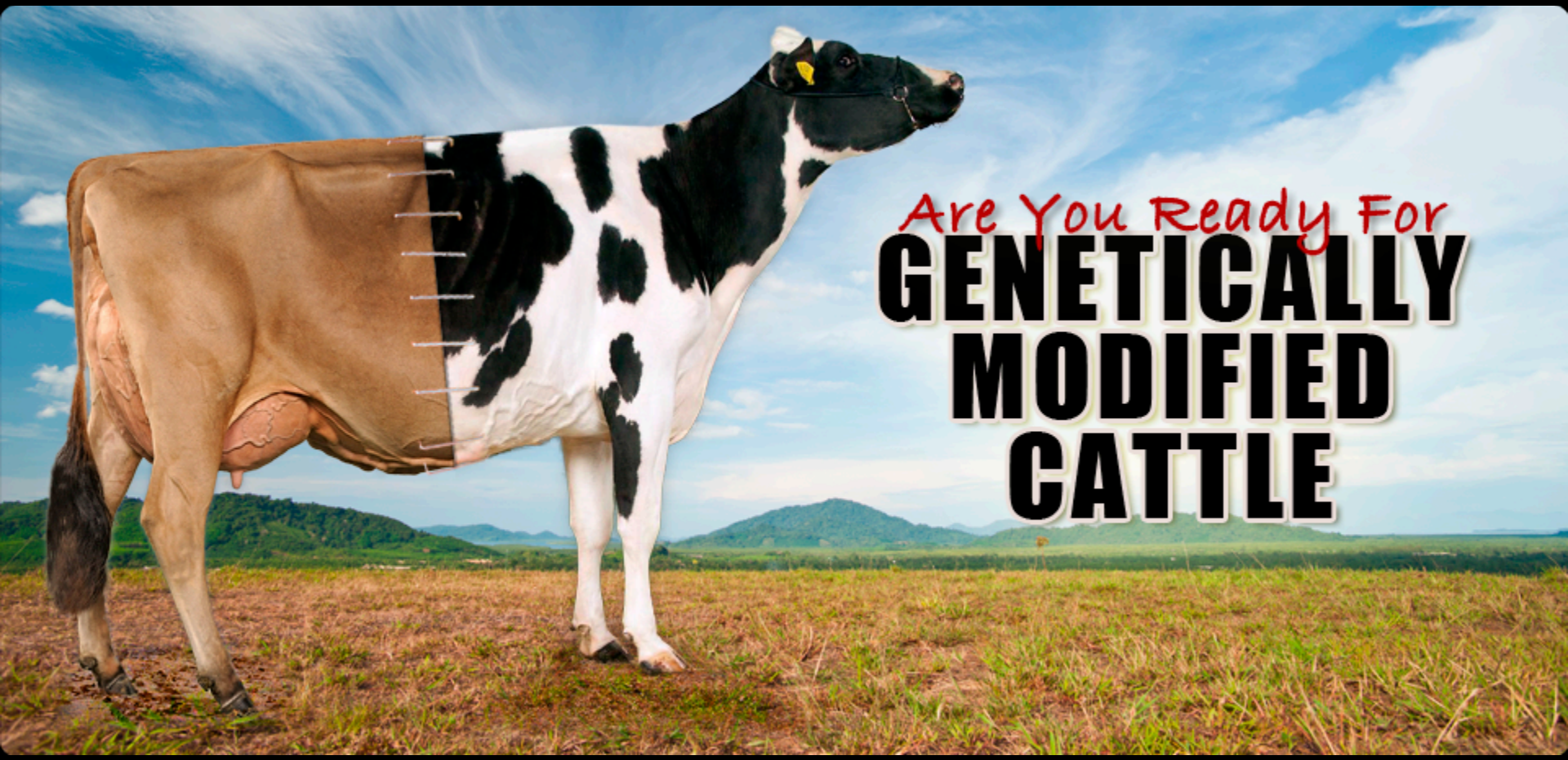


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A "Supercow" constructed from the best haplotypes in the Holstein population would have an EBV(NM$) of $6745
Advancing Dairy Cattle Genetics: Genomics and Beyond, Phoenix, AZ Feb 19, 2014. Adjusted for Dec. 2014 base change per Paul Van Raden 5/26/15 personal communication.

IN 50 YEARS THE WORLD POPULATION WILL REQUIRE 100% MORE FOOD

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APPROXIMATELY 80% OF THE WORLD'S SOY AND COTTON PRODUCTION IS GMO


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Nutrigenomics
ENDALE DAIRY
K SOURCE 2016


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Who We Are

Let's start with what we are not. We're not just an event reporting magazine. We're not a billboard or promoter of whoever will pay us the most money. We are something different, something real. We're what's been missing for real dairy breeders. The Bullvine is an independent, online community for professionals in the dairy breeding industry. Every day, we give insight and host lively debate about the people, products and services that are revolutionizing the dairy breeding industry.

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Diana Mallett Photography

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-I APOLOGIZE-

FOR LETTING YOU MISINTERPRET WHAT I WAS SAYING.

READING THE BULLVINE CAN HELP YOU THINK CLEARER AND FORM YOUR OWN OPINION. CLINICAL STUDIES SHOW THAT READING THE BULLVINE CAN DECREASE MENTAL FATIGUE AND INCREASE YOUR INTELLIGENCE. IT HAS ALSO PROVEN TO INCREASE FERTILITY AND PROFITABILITY OF YOUR COWS.

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