





Webinar 29-10-2021

Lars Nielsen, VikingGenetics

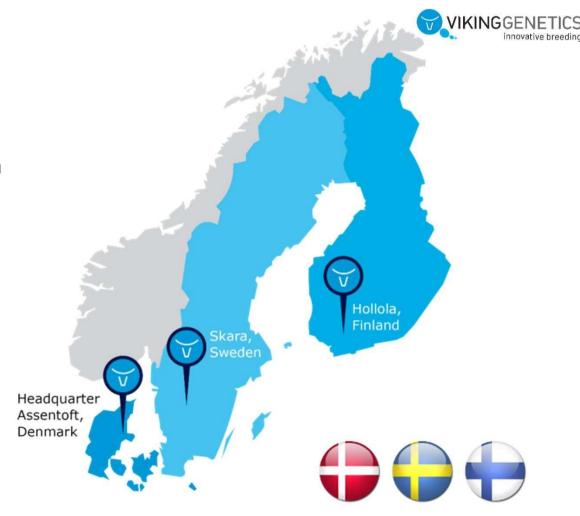


VikingGenetics

 Owned by 22,000 cattle farmers in Denmark, Sweden and Finland

Daughter companies in:







Viking Focus

Needs for dairy cattle farmers

- Profit
- Easy, fertile, healthy and long lasting cows
- Easy and clear solutions
- Respect we are producing **FOOD** with sustainable solutions

How to create profit

Increase income

- High production
 - Keep cows longer = higher production
- Slaughter animals
- Export / Sale of heifers

Lower the costs

- Less diseases
- Easier cows = less work
- Better reproduction

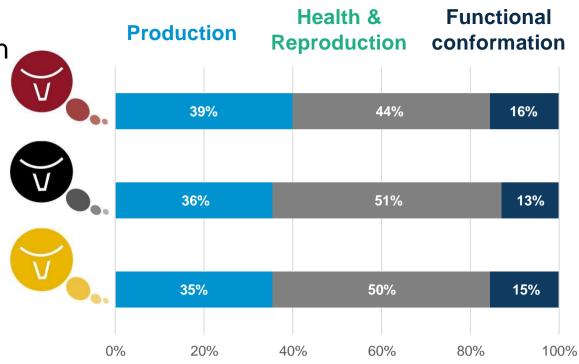




NTM is profitability

 NTM is composed by all the traits that have an economical impact on the dairy business

• Approx. 10 euro per unit



Updated: 2019-02-05



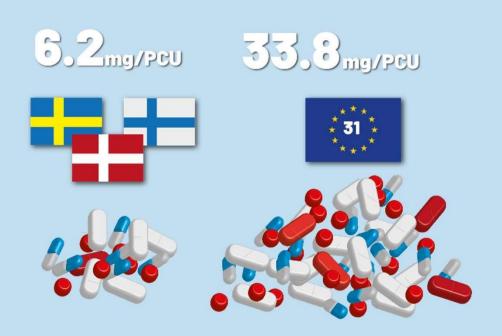
Make a long lasting cow

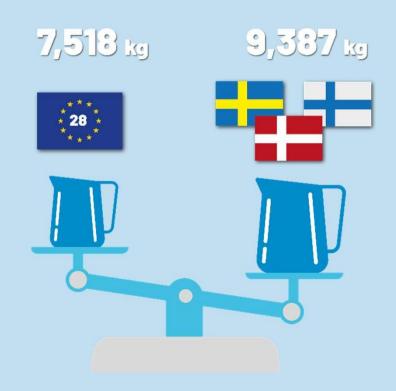
Trait	Correlation %
NTM	45
Daughter fertility	35
General health	40
Hoof health	32
Udder health	46
Feet & legs	22
Udder	31
Yield	-8
Body	-25





Low use of antibiotics in combination with high production





Source: Antibiotics: Adapted from the report by the European Medicines Agency, European Surveillance of Veterinary Antimicrobial Consumption, 2019. 'Sales of veterinary antimicrobial agents in 31 European countries in 2017' (EMA/294674/2019). Production: Eurostat (2018)

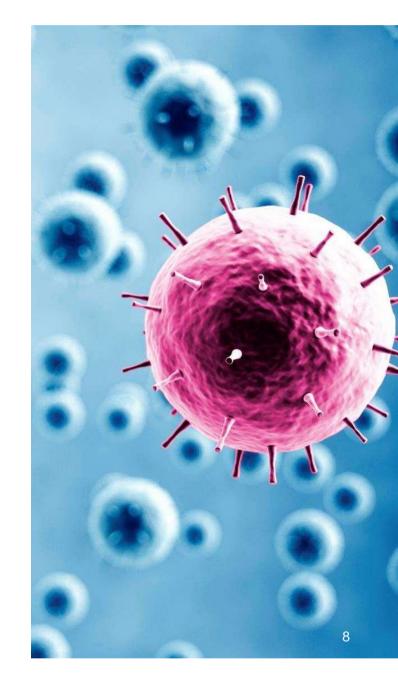
Lowest use of antibiotics

Sales in mg/PCU (Population correction unit) of veterinary antimicrobial agents marketed for food-producing animals 2017 weighted according to the proportion of cattle. The graph includes countries >215 PCU of cattle.

mg/PCU of veterinary antimicrobial agents



Source: Adapted from the report by the European Medicines Agency, European Surveillance of Veterinary Antimicrobial Consumption, 2019. 'Sales of veterinary antimicrobial agents in 31 European countries in 2017' (EMA/294674/2019).

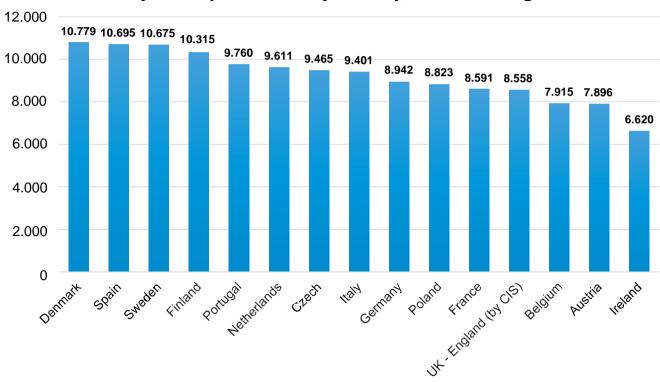






Highest milk yield

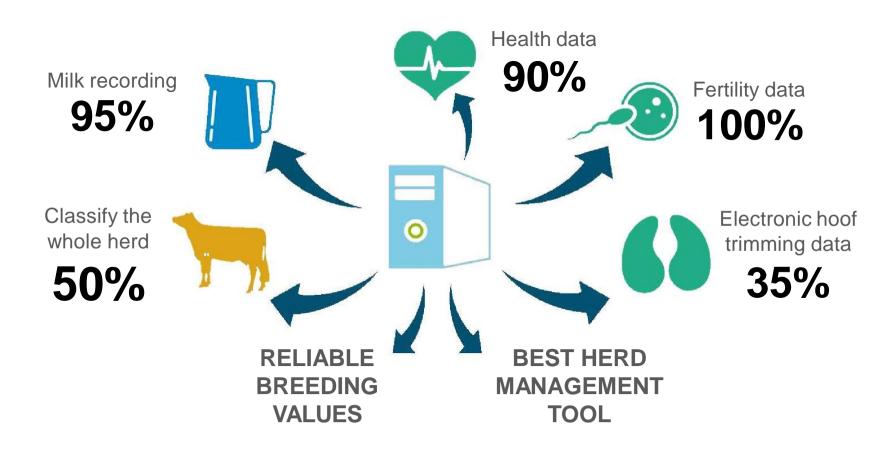
305 days milk production by country, all breeds together



Source: ICAR (2020): Portugal & Italy (2019) & NAV 2021 (DK, SE, FIN)



Reliable breeding values – DATA





How to reduce lameness?

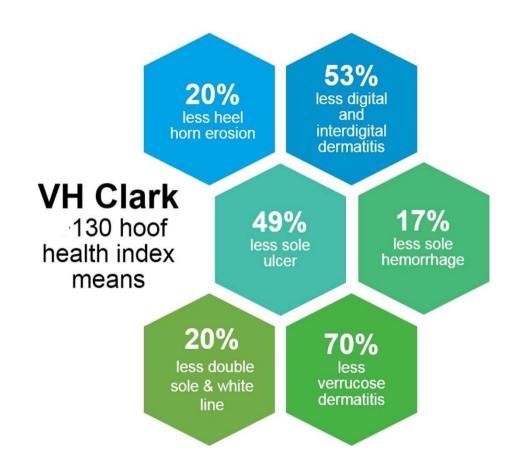
Hoof problems do not only cause pain and distress for dairy cattle, but also have a huge impact on the economy of dairy farms...and reduce longevity

















Dairy Cross Concepts



PROCROSS

MONTBELIARDE / HOLSTEIN / VIKINGRED
VIKINGRED / HOLSTEIN / MONTBELIARDE







Designed for Beef x Dairy

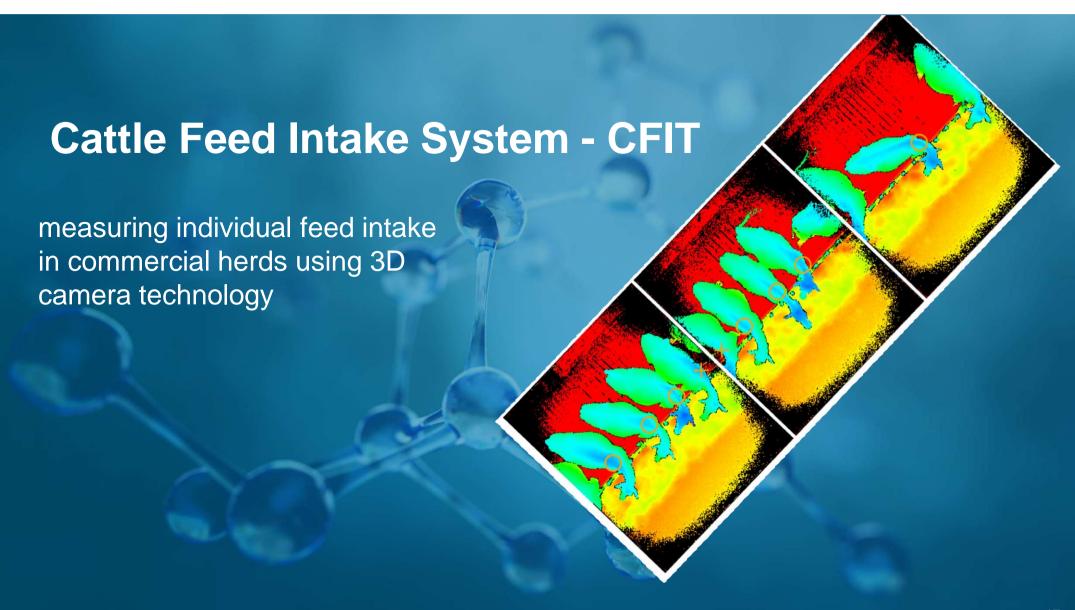




Trends in dairy cattle sector

- Longer lasting cows
- More sexed semen
- More Beef semen







Saved feed index timeline

2020 Nov

EBV for **Metabolic Efficiency** published

2019 Aug

EBV for **Maintenance**Efficiency published

2020 Aug

Saved feed index included in NTM

2013 The research activities for developing a genetic evaluation for feed efficiency initiated

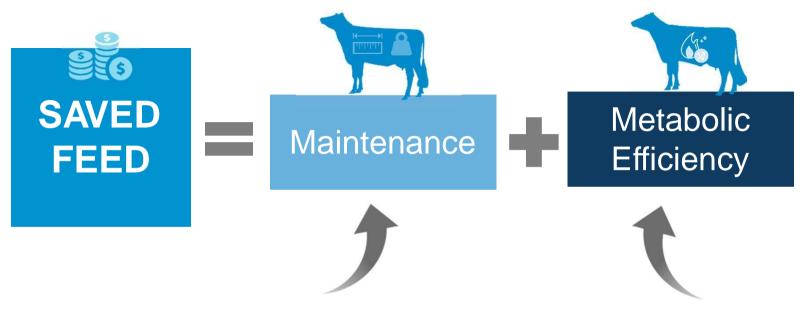


Work to develop **Cattle Feed Intake Technology (CFIT)** started





Saved feed index



Data: Live weight measurements and conformation traits (stature, body depth and chest width) Require information about individual cow's feed intake, yield, weight, pregnancy, etc.



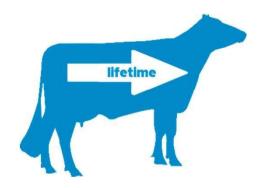
Reliable data

- Data collected from the commercial herds without disturbing the daily routines and not only from a limited number of research farms
- Data on individual cow's feed intake over her lifetime available for the different periods in lactation

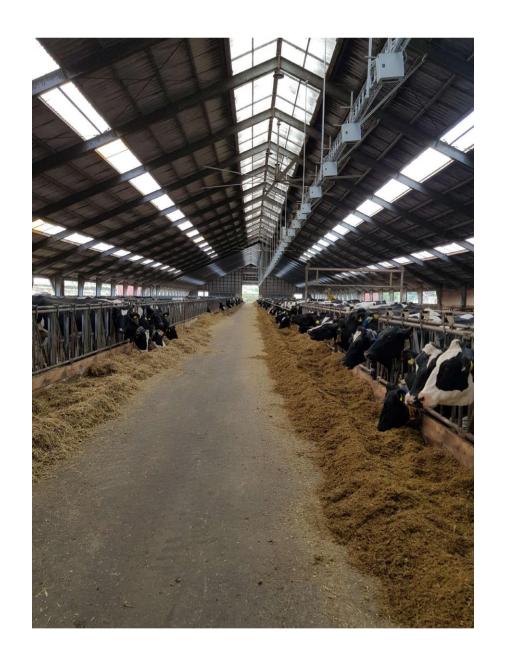


Data collected across
the breeds and herds
with different
management levels











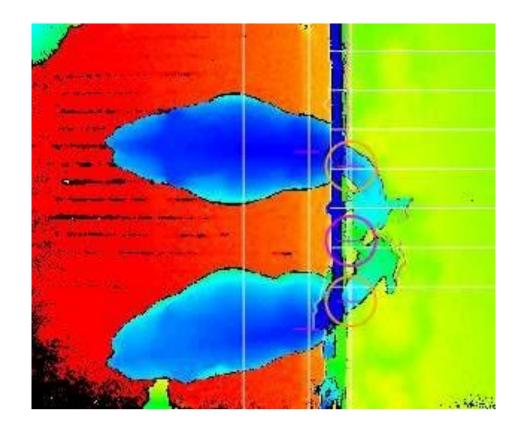


The 3 focus areas are all patented

Identification of the cow

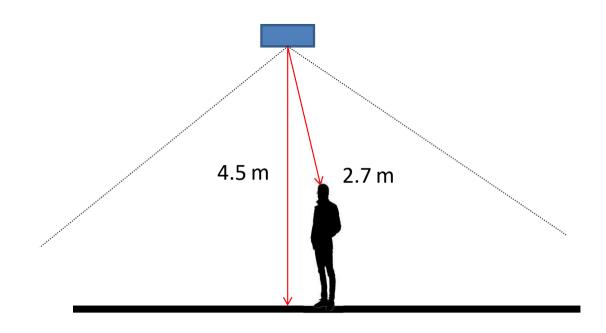
Feed intake on individual level

 Body weight predicted based on shape of the back





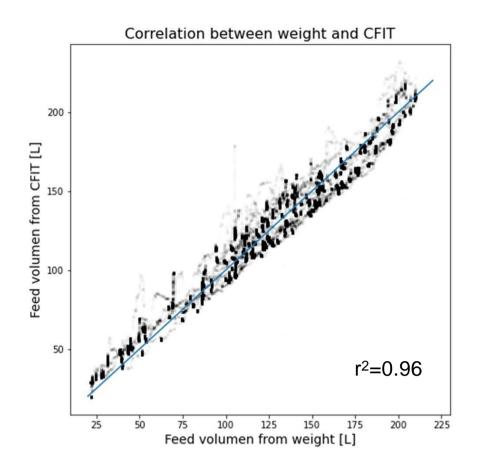
How 3D cameras work



We can quantify the height of an object across and along the object – here a person which is 180 cm high



What is the relationship between camera and scale weight?









Three strong partners









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NR.	Firma	Land	TOTAL DOSER Millioner	TOTAL INTERNATIONALT Millioner	% EXPORT	Racer
1	URUS		32	19	53%	Holstein, Jersey, Angus, Nelore, Brahman
2	Select Sires		24	14	55%	Holstein, Jersey, Angus, Herford, Simmental
3	ABS-Genus		18	14	75%	Holstein, Jersey, Angus, Herford, Simmental, Zebu
4	Semex		12,7	6	47%	Holstein, Jersey, Angus, Brahman
5	CRV		9,5	2,8	29%	Holstein, Jersey, Fleckvieh, Nelore
6	STgenetics		7,5	5,5	73%	Holstein, Jersey, Angus
7	Evolution		6	2	33%	Holstein, Normande, Charolais, Limousine
8	LIC	N N N	4,5	1	22%	Jersey, Holstein
9	GGI		3,5	1	29%	Holstein, Fleckvieh, Angus, Limousin, Simmental
10	Genes Diffusion		3,5	1,1	31%	Holstein, Charolais
11	AWE		3,5	3,2	91%	Belgien Blue
12	VikingGenetics	-	3,2	1,2	38%	Holstein, Jersey, VikingRed plus Beef
13	Masterrind		3	1	33%	Holstein, Jersey, Angus, Limousine, Simmental



Efter fusion

TOTAL

NR.	Firma	Country	TOTAL DOSER Millioner	INTERNATIONALT Millioner	% EXPORT	Breeds
1	URUS		32	19	53%	Holstein, Jersey, Angus, Nelore, Brahman
2	Select Sires	*	24	14	55%	Holstein, Jersey, Angus, Herford, Simental
3	ABS-Genus		18	14	75%	Holstein, Jersey, Angus, Herford, Sim,ental, Zebu
4	Semex	*	12,7	6	47%	Holstein, Jersey, Angus, Brahman
5	ARCOWIN		12,2	4,2	34%	Holstein, VikingRed, Jersey, Normande, Charolais, Limousine, Jersey, Angus, Simmental, Blue
6	CRV	AK (9,5	2,8	29%	Holstein, Jersey, Fleckvieh, Nelore
7	ST	*	7,5	5,5	73%	Holstein, Jersey, Angus
8	LIC	**************************************	4,5	1	22%	Jersey, Holstein
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