

### Webinar 29-10-2021



# 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 <u>FOOD</u> 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

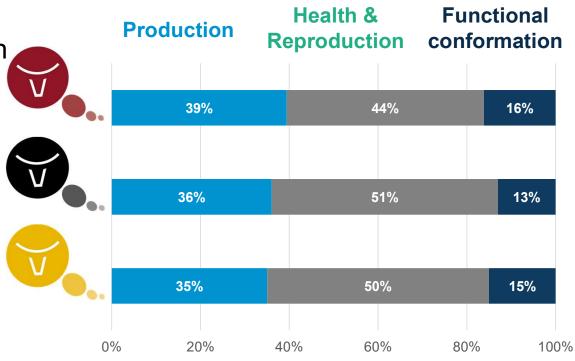




# **NTM** is profitability

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

• Approx. 10 euro per unit

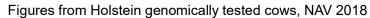


Updated: 2019-02-05



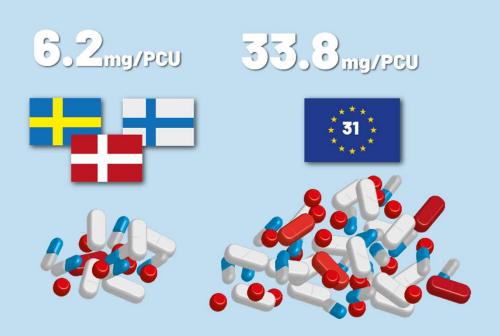
# Make a long lasting cow

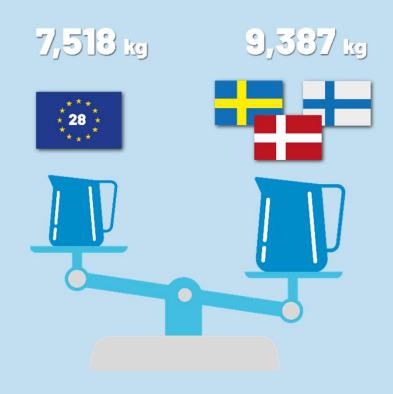
Trait	Correlation %		
NTM	45		
Daughter fertility	35		
General health	40		
Hoof health	32		
Udder health	46		
Feet & legs	22		
Udder	31		
Yield	-8		
Body	-25		





# 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)

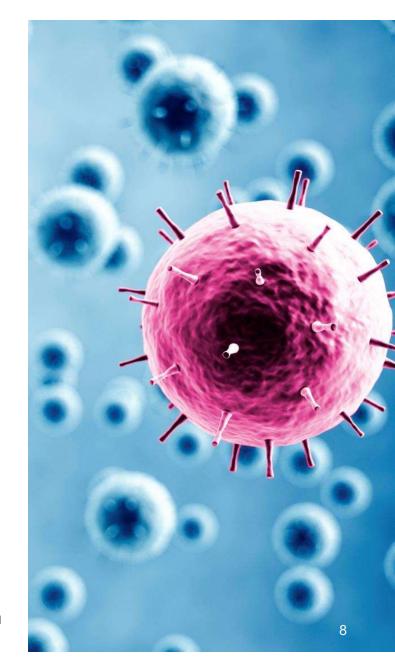
### Lowest use of antibiotics

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).

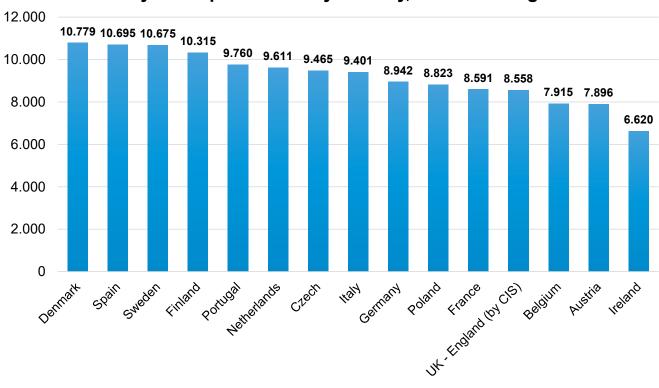






# Highest milk yield

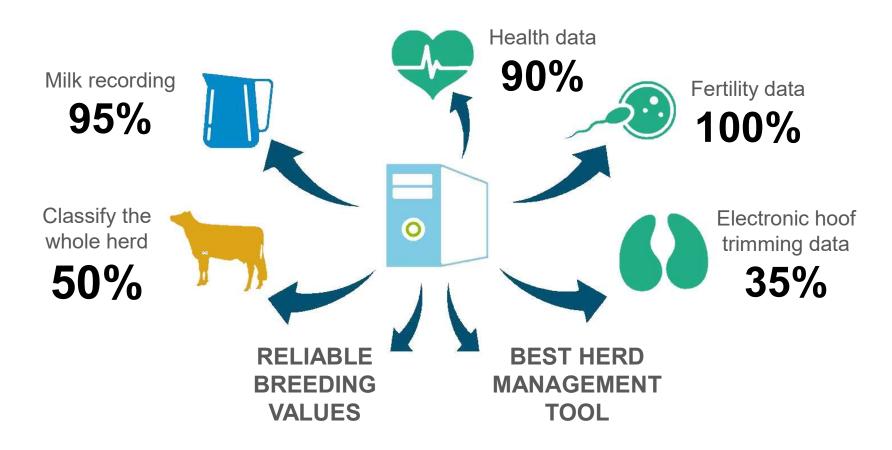
#### 305 days milk production by country, all breeds together



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

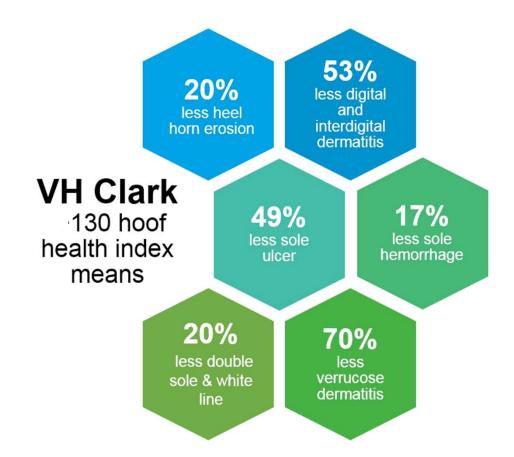








## **Breed for Hoof Health**









# **Dairy Cross Concepts**



PROCROSS

MONTBELIARDE / HOLSTEIN / VIKINGRED
VIKINGRED / HOLSTEIN / MONTBELIARDE







Designed for Beef x Dairy

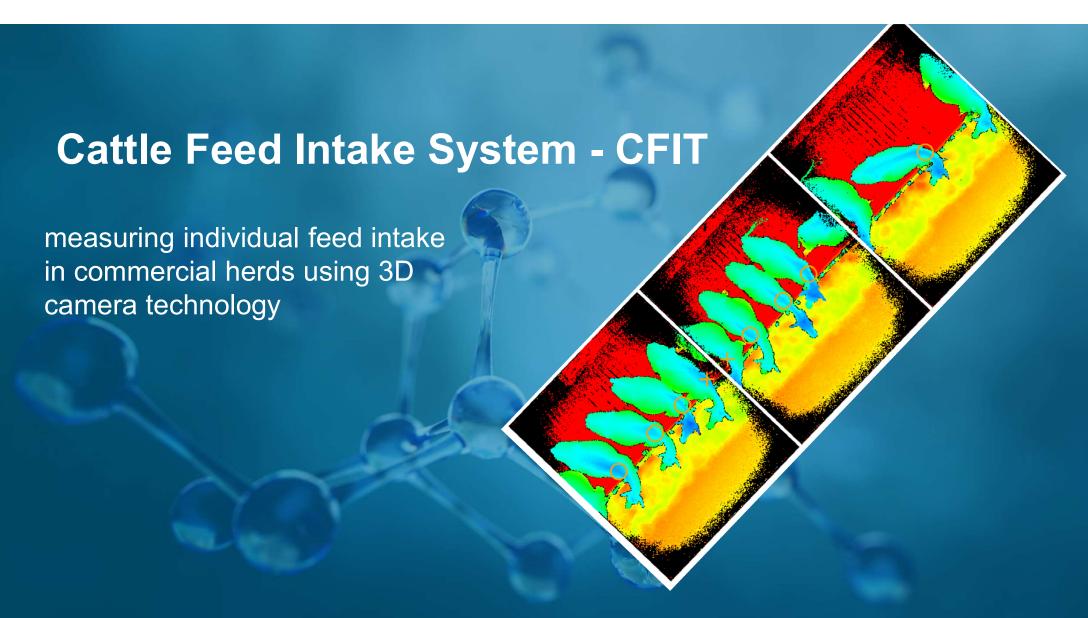




# Trends in dairy cattle sector

- 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

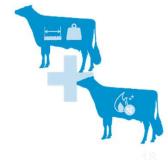
#### 2020 Aug

Saved feed index included in NTM

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

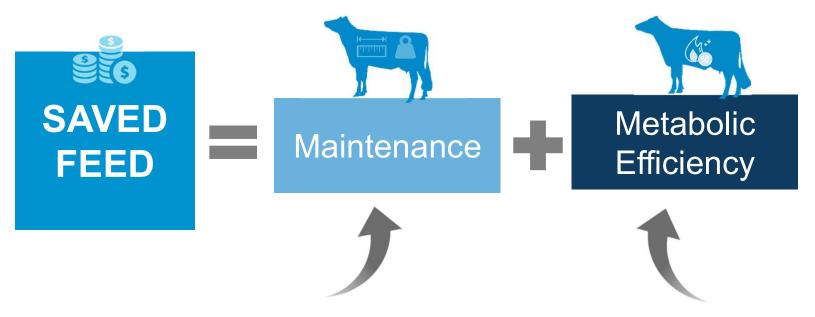


Work to develop Cattle Feed Intake Technology (CFIT) started





### 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.

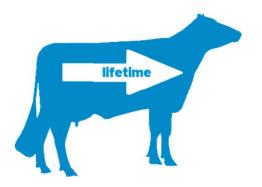


### Reliable data

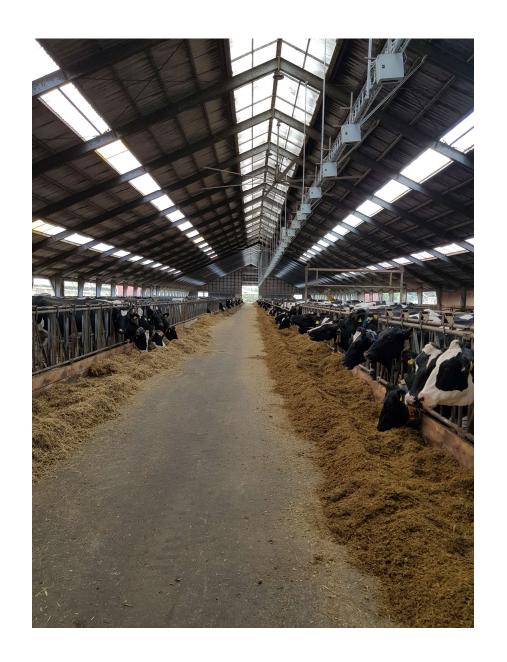
- Data collected from the commercial herds without disturbing the daily routines and not only from a limited number of research farms
- Data on individual cow's feed intake over her lifetime available for the different periods in lactation
- 3

Data collected across
the breeds and herds
with different
management levels











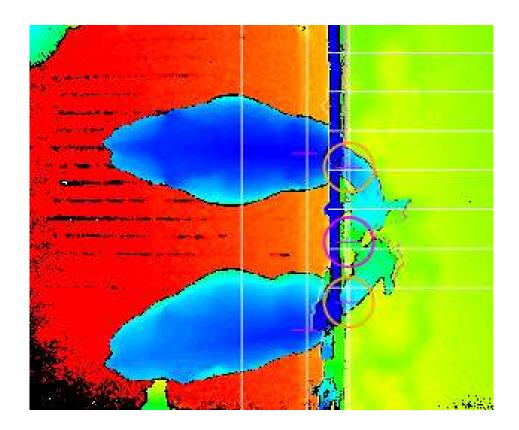


# The 3 focus areas are all patented

Identification of the cow

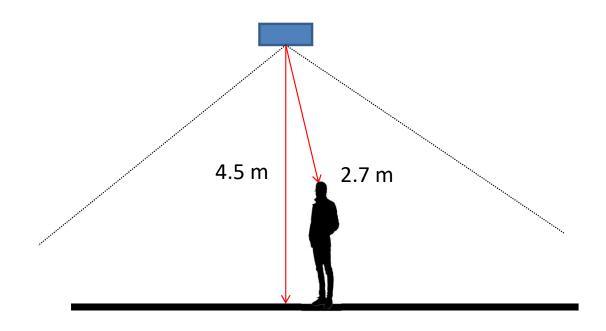
Feed intake on individual level

 Body weight predicted based on shape of the back





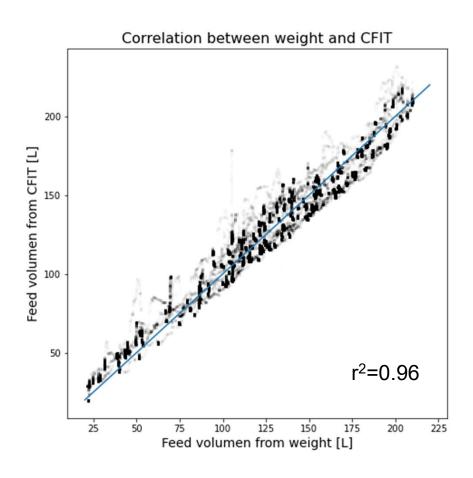
## **How 3D cameras work**



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









Holstein, Jersey, Angus, Limousine, Simmental

## I dag

Masterrind

13

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

1

33%

3



# **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		9,5	2,8	29%	Holstein, Jersey, Fleckvieh, Nelore
7	ST	*	7,5	5,5	73%	Holstein, Jersey, Angus
8	LIC	No.	4,5	1	22%	Jersey, Holstein
9	GGI (et coop domestiques)		3,5	1	29%	Holstein, Fleckvieh, Angus, Limousin, Simental
10	Genes Diffusion		3,5	1,1	31%	Holstein, Charolais
11	AWE		3,5	3,2	91%	Belgien Blue