# Introduction Current Nordic dairy herd health recording and the way forward

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#### Registrations in general

The goal by making registrations:

- Management tools (daily and strategic)
- Genetic tools (EBVs)
- Documentation

To create values for farmers



### Registrations in general

Requirements for both management, genetic and documentation tools:

Unique trait definition (code)

**C**omplete registration

Easy and cheap registration





### Registrations in general

Requirement for both management, genetic and documentation tools:

Unique trait definition (code)

Complete registration (all)

**E**asy and cheap registration



Nordic?





# Possibilities joint Nordic registrations

- Improved Nordic EBVs (NAV)
- Joint Nordic management tools (today national)
- Better comparison of health status across countries (difficult today)



## **NAV** focus registrations

The goal to register the same traits in all three NAV countries







#### Harmonization of type traits

- Type traits
  - Exactly the same traits classified (start 2005) (Finland 4 new, Denmark 1 new)
  - Joint manual
  - Nordisk classifier workshop every 2<sup>nd</sup> year



### Harmonization of calving traits

Calving ease (Sweden changes to four classes during 2012)







#### Harmonistaion of claw diseases

#### Nordic Claw Atlas 2011

Trait	Grade	Description	Comments	Trait	G	rade
Permatitis	1 mild	Inflammation of the digital and/or interdigital skin with excudation or dry crusts (hyperkeratosis). Not painful		ID phlegmon	1	
gital rmatitis	2 severe	Inflammation of the digital and/or interdigital skin with erosion, bleeding ulcerations. Painful and can cause lameness	M2 (Döpfer et al., 1997)	Fissure white line		(mild)
eel horn osion	l mild	Superficial erosions of the bulbs, pits, V-shaped or		Abscess, ulcer of white line	1	2 (severe)
horn	2 severe	circular. Not painful.  Profound erosions of the		Abscess, ulcer of toe	L	2 (severe)
ei norn osion	2 severe	bulbs, typical V-shaped or circular, extending to the		Double sole		Only recorded in one grade
ole	1 mild	corium Superficial hemorrhage of the		Laminitic ring		Only recorded in one grade
morrhage		horn of sole and/or white line, disappears at normal trimming		Asymmetric claws		Only recorded in one grade
ole emorrhage	2 severe	Profound haemorrhage of the horn of sole and/or white line, remains after trimming		Screw claw	C	only recorded only one grade
Sole ulcer 1 :	1 mild	Penetration through the sole horn exposing fresh corium.		Over grown claws	in	nly recorded one grade
		Most likely lameness		Scissor claws	in or	y recorded ne grade
Sole ulcer	2 severe	Penetration through the sole horn exposing affected corium with necrotic miss coloured		Lameness	1, n	nild
		tissue and or protruding granulation tissue. Lameness		Lameness	2	, severe
Wart growth	1	Papillomatoes dermatitis, chronic stage of digital dermatitis		Hock lesion		l mild
D hyperplasia	Only recorded in one grade	Interdigital growth of fibrous tissue		Hock lesion	;	2 severe

#### Harmonistaion of claw diseases

engelsk: Heel horn erosion

dansk: Balleråd / Balleforrådnelse

svensk: Klövröta

Finsk: Kantasyöpymä

Mild

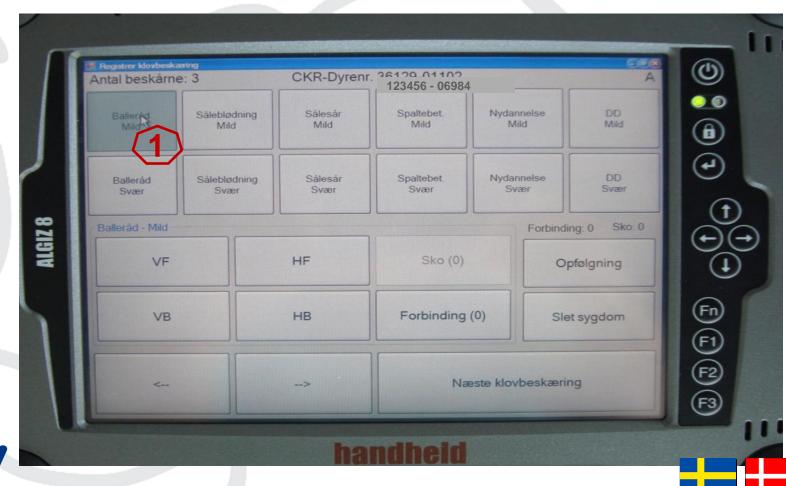


Severe





#### Joint Nordic registrations program



#### Disease registration

More than 300 disease codes

Treatment policy differ between countries

and years



# Large country and year differences in disease incidences

NAV work Johansson, 2008





#### Handling of diseases in EBVs

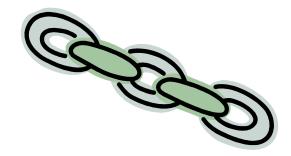
Mastitis – pooled across several codes

Other diseases pooled within

- Reproductive diseases
- Metabolic diseases,
- Feet and legs diseases







### **Nordic cooperation**

- Data collection joint by common IT solutions
  - Program for type traits registrations (developed in Finland)
  - Program for registration of claw health data (developed in Denmark)
- Registration 100% the same for all new and old traits across (F, S, DK and partly N)
  - Claw trimmer data 100% the same definitions of diseases
  - Type traits joint manual
- Calving traits Sweden change to 4 classes



# Possibilities joint Nordic registrations – health traits

- Improved Nordic EBVs (NAV)
- Joint Nordic management tools (today national)
- Better comparison of health status across countries (difficult today)



# How can we improve the health recording systems?

#### **National**

- <u>U</u>nique trait definition, (code)
- **C**omplete registration (all)
- Easy and cheap registration

or

#### **Nordic**

- <u>U</u>nique trait definition (code)
- **C**omplete registration (all)



• Easy and cheap registration



#### Questions







