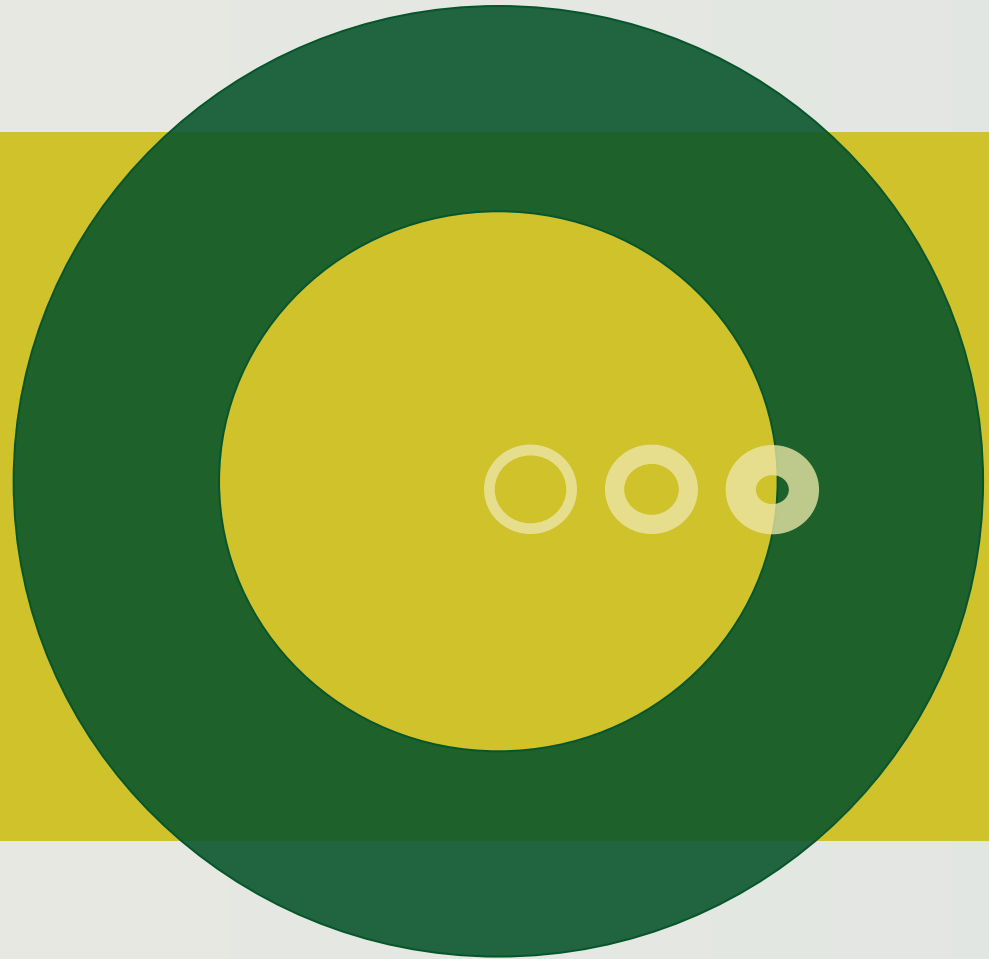




Presentation of Danish system of registration and use of health data

Health Data
Conference
General aspects –
part 1

Aarhus 2013
Johannes Frandsen



The Danish Cattle Database system

Characteristics

- All Cattle
- Many data
- High coverage
- High validation
- Many (all) business areas



What is the Danish Cattle Database?

Complete database of cattle farmers and cattle in Denmark

- Information on every cattle owner in Denmark
- All cattle identified by individual ear tag (both dairy and beef)
- All herds (animal at all times and the herds location)



Cooperation with the authorities

Used by research institutions

Statistics

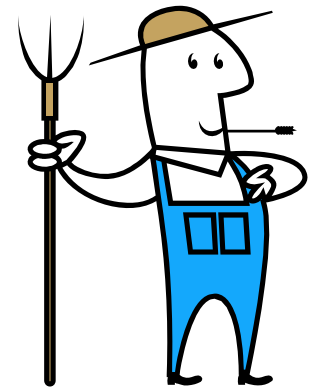
**Cattle
Database
+
Dataware
house**



The farmer is the owner of the data in the Danish Cattle Database

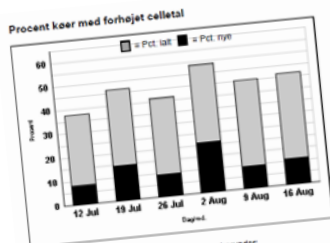
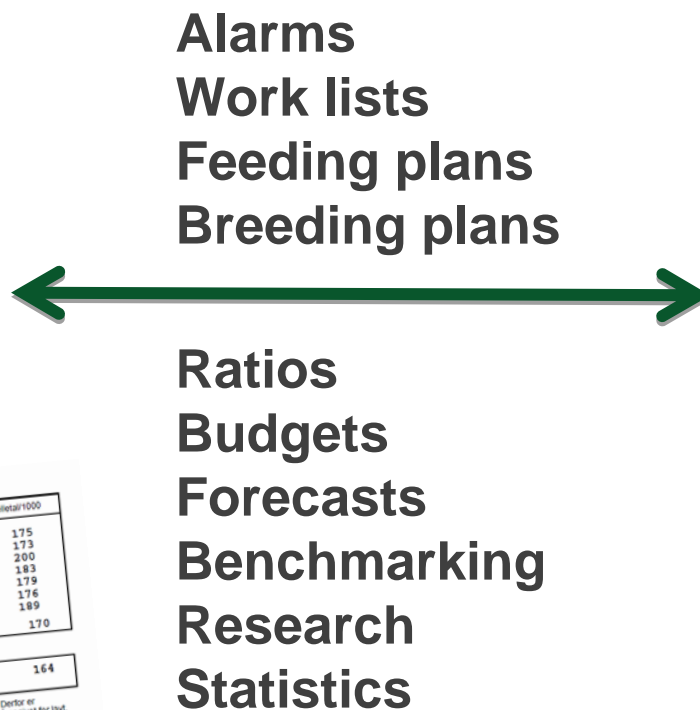
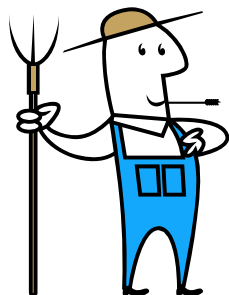
By signature the farmer legalizes veterinarians, livestock and breeding consultants, hoof trimmers, dairy factories etc. to see or use data of his herd

The benefit for these are that they only deliver data for their own area, but have access to all data in their daily work





Use of data in daily management



Tankcelletal til mejeriet

Uge	Celletal/1000	Uge	Celletal/1000
20	143	27	175
21	158	28	173
22	160	29	200
23	158	30	183
24	166	31	179
25	169	32	176
26	167	33	189
Geometrisk gns. sidste 3 mdr.			170

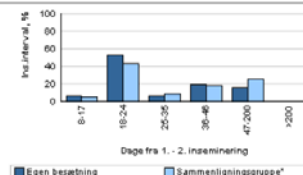
Celletal på kontroldagen

Gns. ydelseskontrol	Tankprøve
	164

* Mågt høj celletal måles for lavt. Derfor er celletal i Gns. Ydelseskontrol også angivet for lavt.

Brunst

Insemineringsprocent				
Kvier (antal)	Mål, egen besætn.	Opnået		
		Egen besætn.	Bedste 25 % *	Ringeste 25 % *
1. ins. (105)	60	78	54	25
Øvr. ins. (32)	60	61	56	26



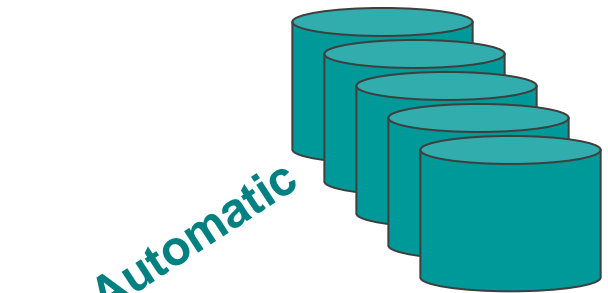


Data in the Danish Cattle Database?

From the farm and the farmer:

- Animal registration
- Milking
- Feed intake
- Disease and medicine per cow

Automatic or manual



Automatic

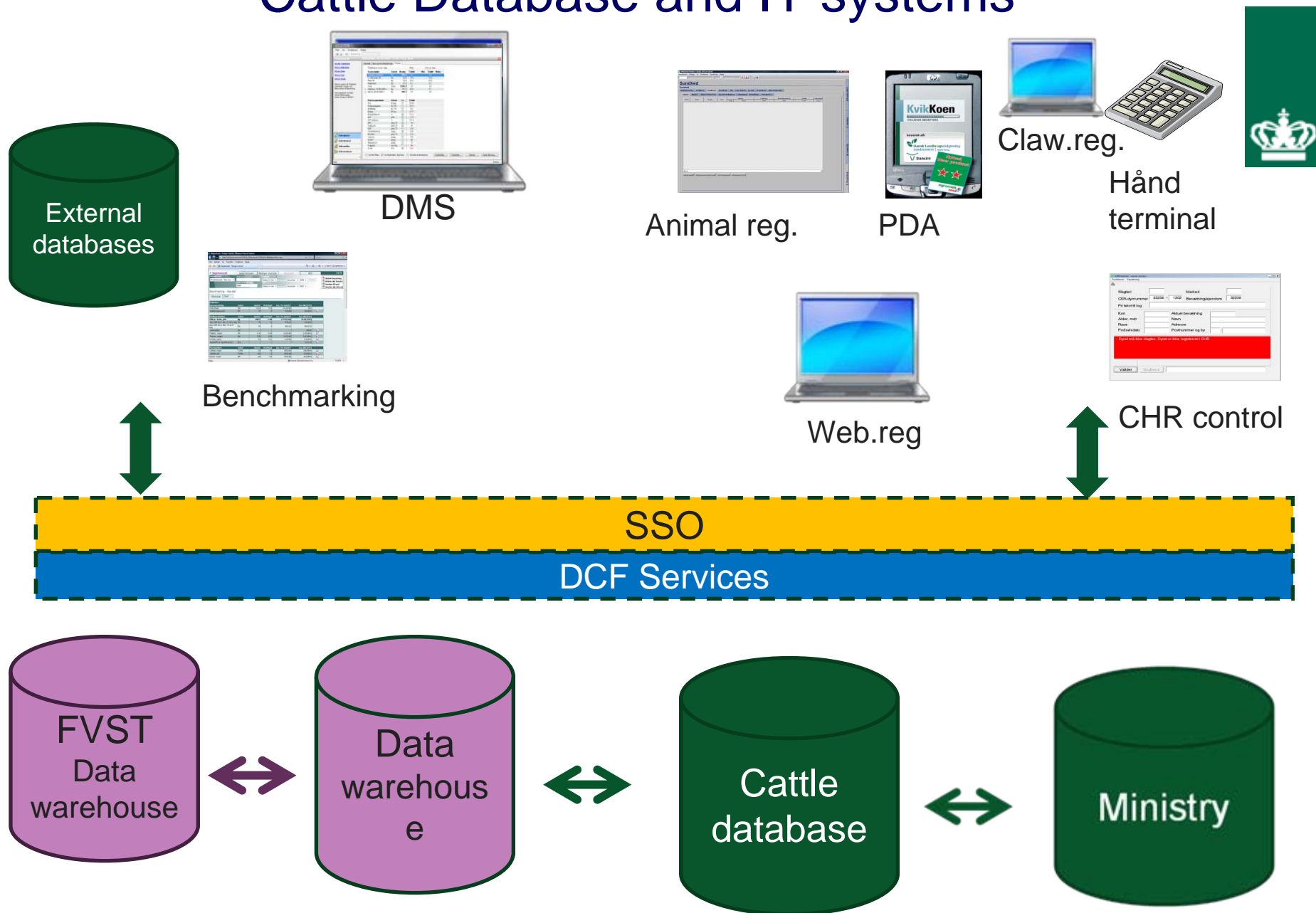


From the advisers and vets.:

- Breeding information
- Diseases and medicine consumption
- Milk quality and quantity
- Claw registration
- Etc.

- Dairy factories
- Slaughter houses
- Rendering firms
- Laboratories
- Economic database
- Crop database

Cattle Database and IT systems



Data in the Danish Cattle Database

- single animals

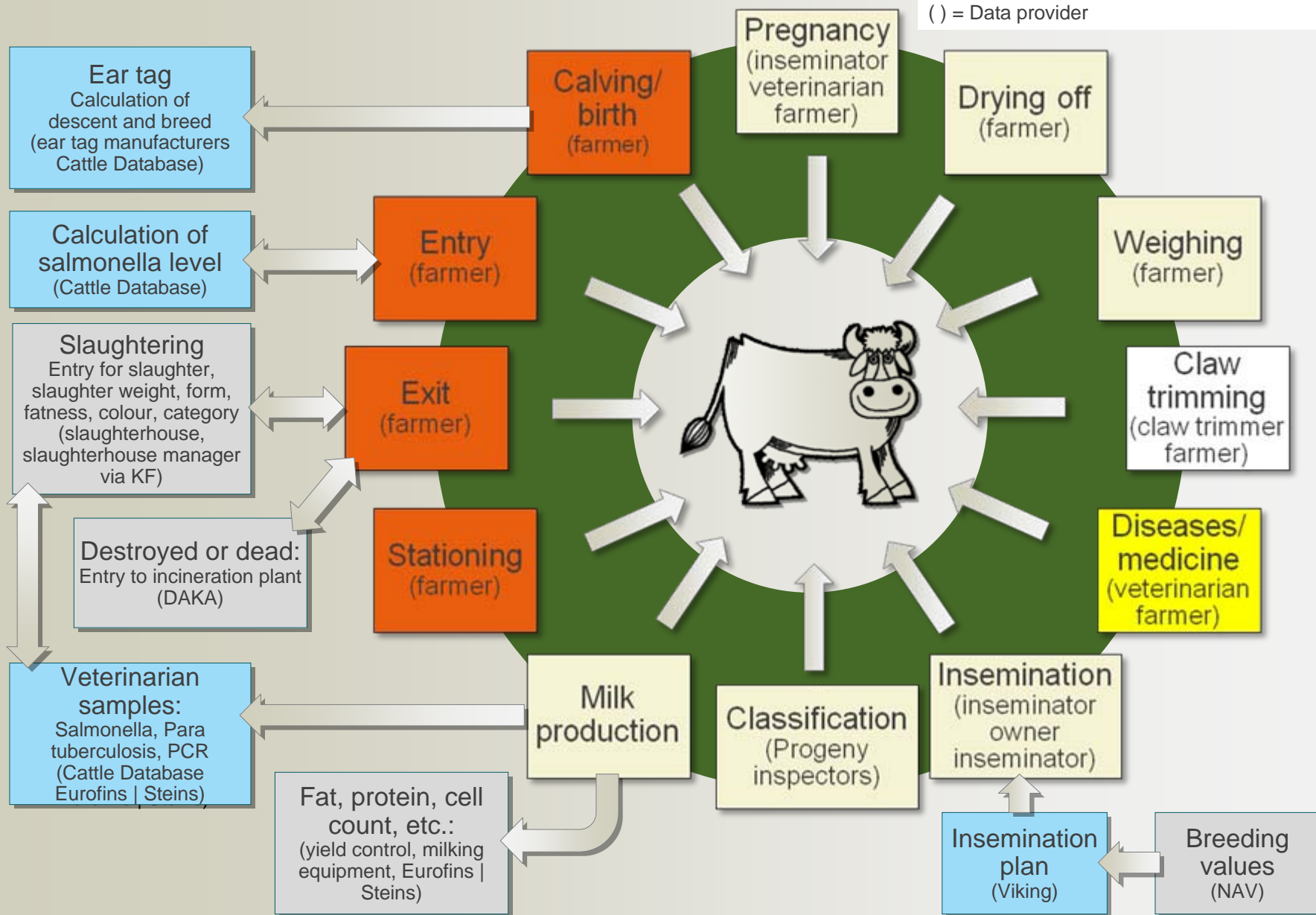
Red = Data required by law

Yellow = Registration must be available at control

Grey boxes = Via the IT-system of external partners

Blue boxes = Calculated via data in the Danish Cattle Database

() = Data provider



Data in the Danish Cattle Database

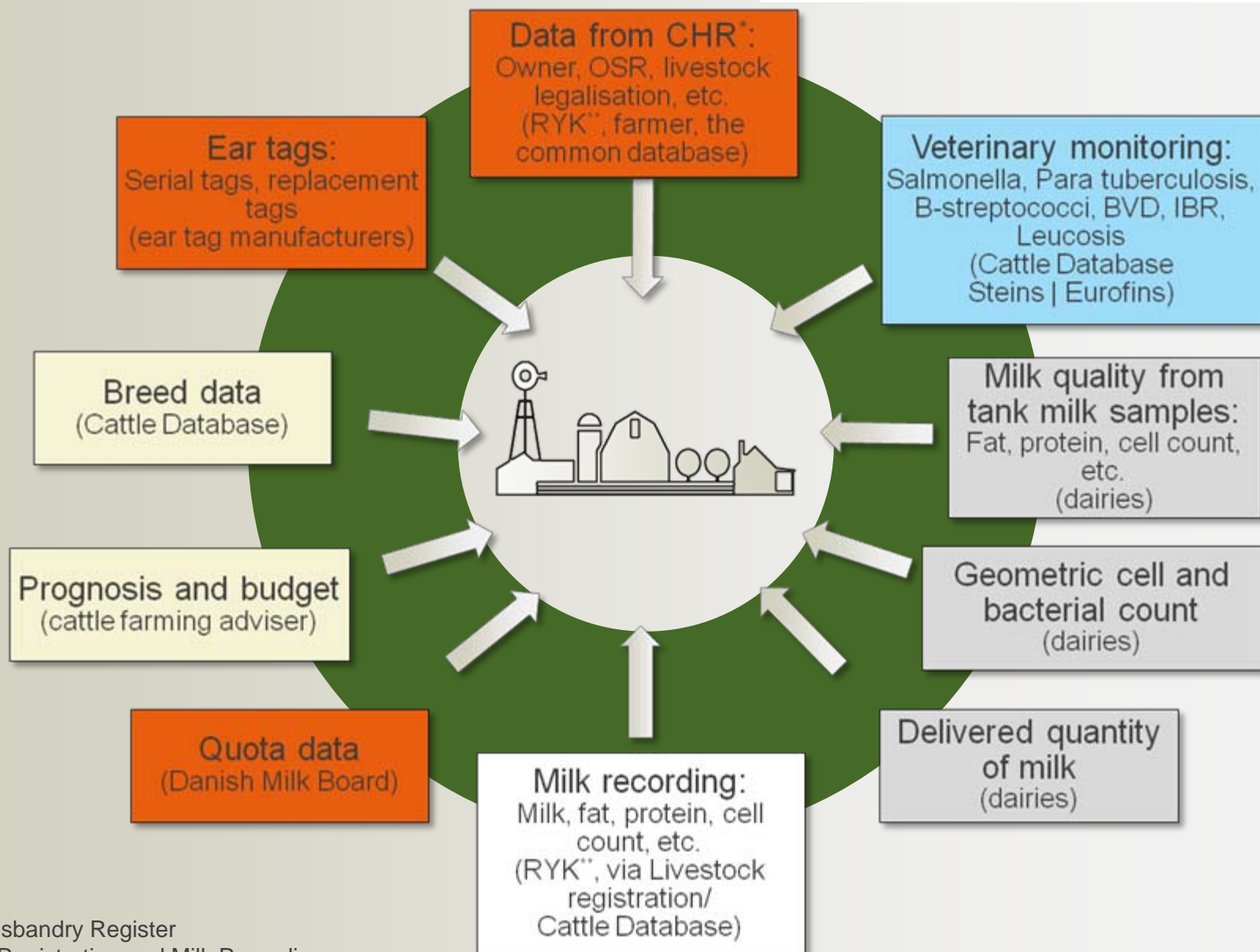
- herd

Red = Data required by law

Grey boxes = Via the IT-system of external partners

Blue boxes = Calculated via data in the Danish Cattle Database

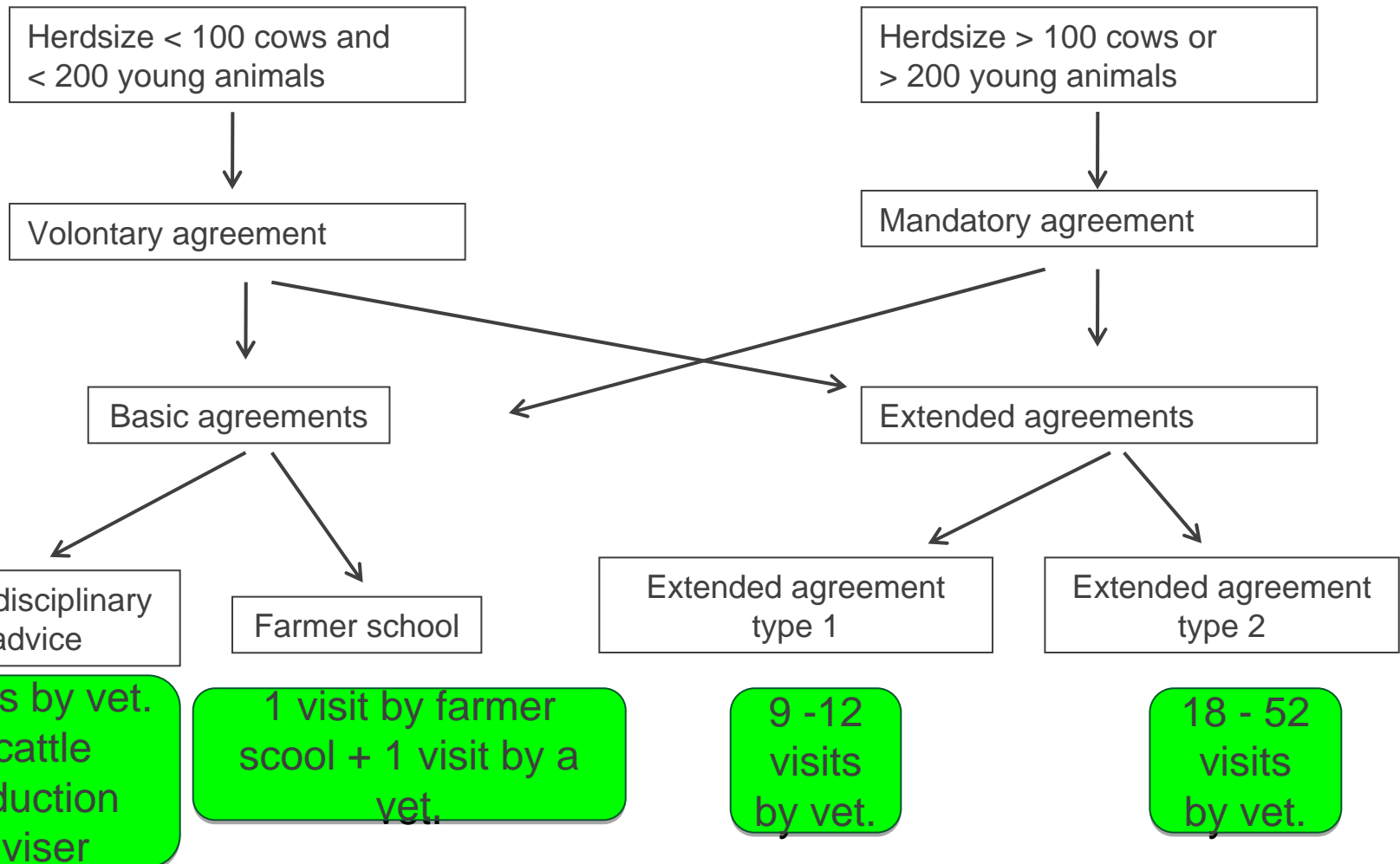
() = Data provider



*CHR = Central Husbandry Register

**RYK = Livestock Registration and Milk Recording

Herd health agreements



Number of herds with different herd health agreements

Type of agreement		Mandatory	Voluntary	Total
Basic agreements	Interdisciplinary agreement	101	2	103
	Farmer school	241	10	251
Total, basic agreements		342	12	354
Extended agreements	Type 1	1051	522	1573
	Type 2	1503	179	1682
Total, ext. agreements		2554	701	3255
Total		2896	713	3609

Counted May 2th.

More than 74 %
of danish dairy
herds have a
herd health
agreement

More than 93 % of
all danish dairy cows
are included in herd
health agreements

	Requirements for visits	Medicine	Vet. report	Farmer duties
Basic agreements Interdisciplinary advice Farmer school	Animal welfare Audit	Follow up treatments 5 days, young stock	At every visit	Program for self control Recording of animal turnover
Extended agreement type 1	Animal welfare Audit Actual Health status (data + identification of herd problems)	Herd diagnosis, youngstock Follow up treatment of adult animals (up to 5 days)	Every third month (Youngstock: Every fourth month – however farms in GFP every sixth month)	Program for self control Recording of animal turnover Reporting
Extended agreement type 2	Animal welfare Audit Cinical examination of animals at risk (data + identification of herd problems)	Herd - diagnosis 35 days	Every third month	Program for self control Recording of animal turnover Reporting

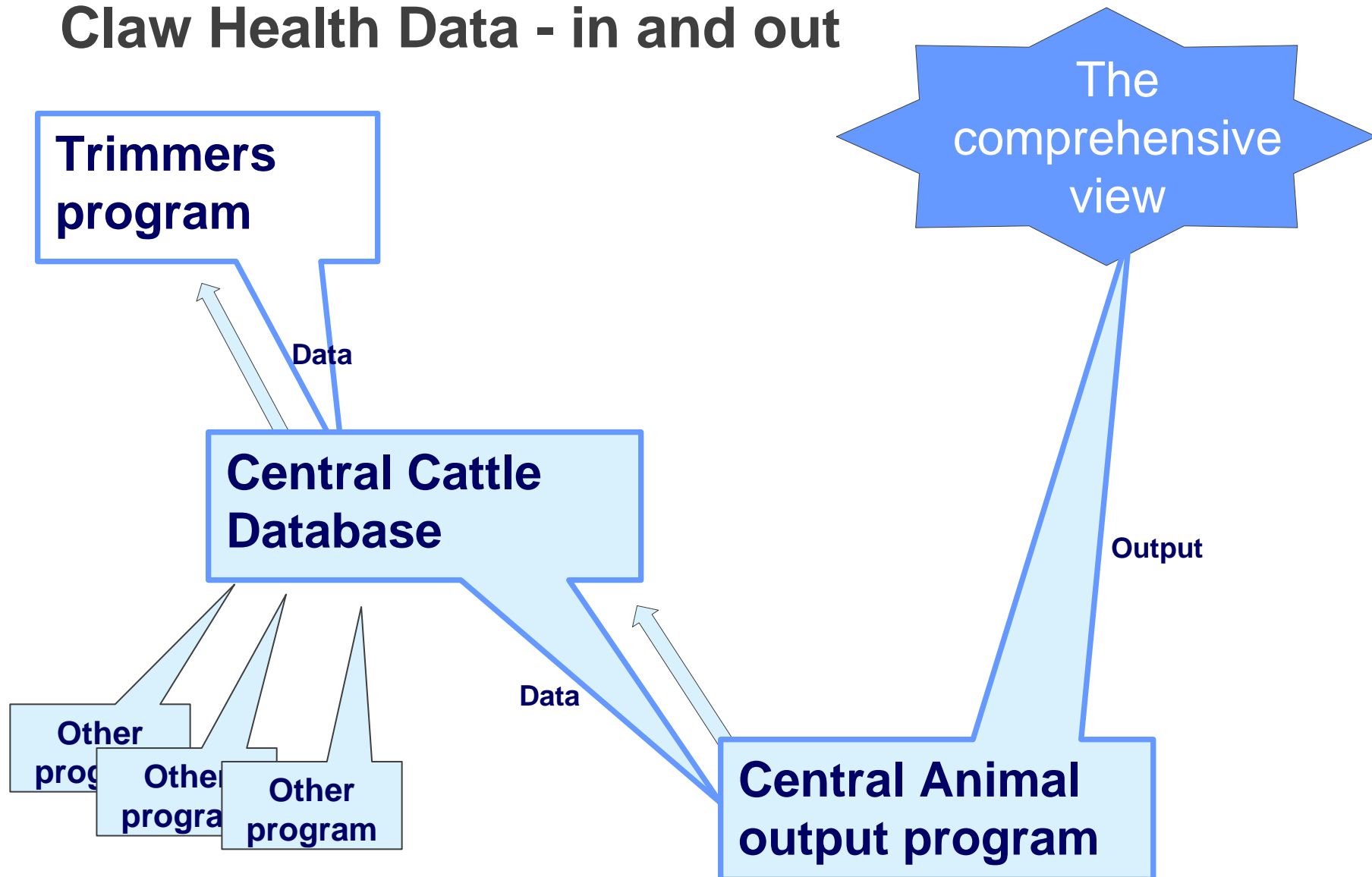
Claw Health Registration

Co-owned by:
Sweden
Finland
Norway
Denmark





Claw Health Data - in and out



CKR Number

100000 -

Select

19220-01656

19220-01669

19220-01671

19903-03940

19903-03947

19903-03971

19903-03975

19903-04637

20227 01725



Finish Herd

1

2

3

4

5

6

7

8

9

Clear

0

Clear All



Close Application

Show Previous Hoof Cut

Number of Hoof Cuts: 0 Shoes: 0 Bandages: 0 CKR Number 19220-01656

Heel horn erosion
MildSole haemorrhage
MildSole ulcer
Mild

Fissure white line

Interdigital fibroma

Skin infection

Heel horn erosion
SevereSole haemorrhage
SevereSole ulcer
Severe

Ulcer of white line

Double sole

Digital dermatitis

Select Disease

Left Front

Right Front

Shoe (0)

Bandage: 0

Shoe:0

Follow Up

Left Back

Right Back

Bandage (0)

Delete Hoof Cut



Next Hoof Cut

Number of Hoof Cuts: 0 Shoes: 0 Bandages: 0 CKR Number 19220-01656

B

Foot rot

Asymmetric claws

Over grown claw

Chronic Laminitis

Locomotion
Moderately lameHock lesion
Mild

Abscess

Corkscrew claw

Scissers claw

Wart growth

Locomotion
Clearly lameHock lesion
Severe

Select Disease

Left Front

Right Front

Shoe (0)

Left Back

Right Back

Bandage (0)

Bandage: 0

Shoe:0

Follow Up

Delete Hoof Cut



Next Hoof Cut

6 registrations for 19220-01656

Date	Disease	Sev.	Feet	Shoe	Band	Advisor
3/8/2012	Hoof Cut			<input type="checkbox"/>	<input type="checkbox"/>	Klovbeskærer, Kaj Andersen
3/8/2012	Heel horn erosion	Mild	LF	<input type="checkbox"/>	<input type="checkbox"/>	Klovbeskærer, Kaj Andersen
3/8/2012	Heel horn erosion	Severe	LB RB	<input type="checkbox"/>	<input type="checkbox"/>	Klovbeskærer, Kaj Andersen
11/3/2011	Hoof Cut			<input type="checkbox"/>	<input type="checkbox"/>	Klovbeskærer, Kaj Andersen
11/3/2011	Digital dermatitis		LB	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Klovbeskærer, Kaj Andersen
11/3/2011	Heel horn erosion	Severe	LB RB	<input type="checkbox"/>	<input type="checkbox"/>	Klovbeskærer, Kaj Andersen

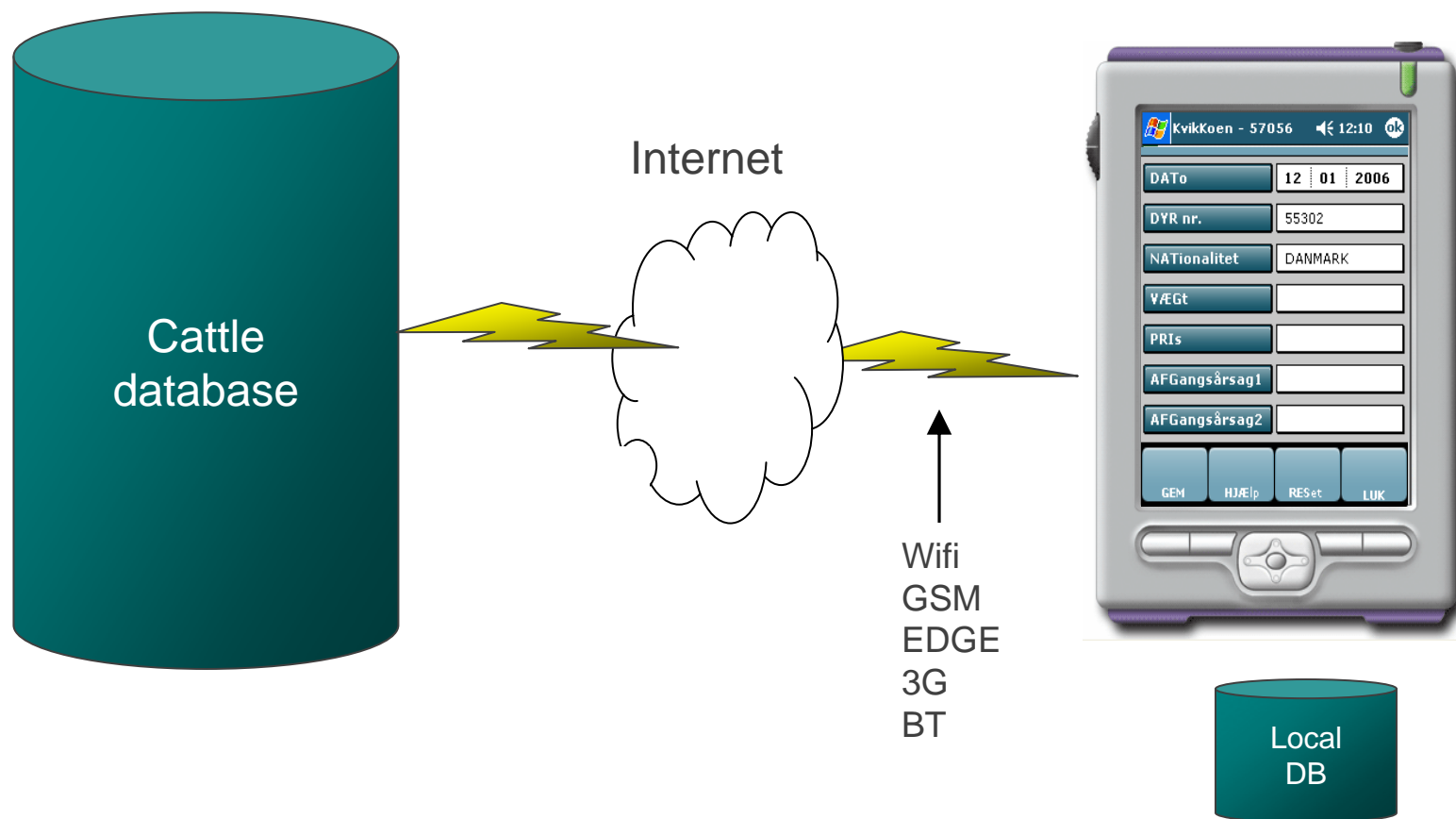


"KvikKoen" – a PDA solution

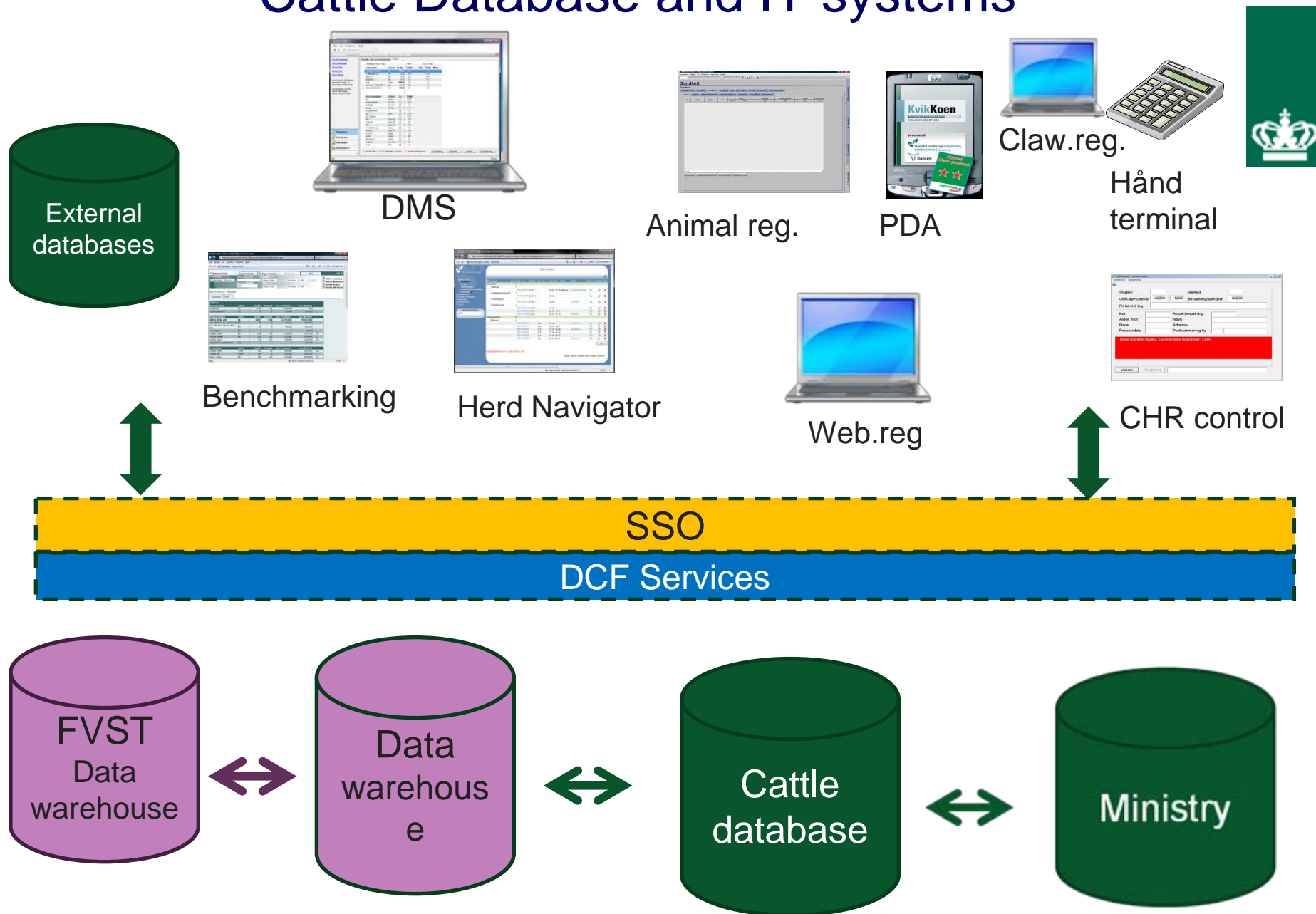


From the barn to the cattle database

How does KvikKoen work?



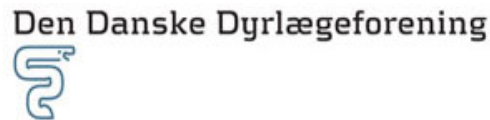
Cattle Database and IT systems



Communication with external databases



Destron Fearing™



Cattle
Database

Why do get so many data – nobody wants to do registration!

- Long cultural tradition and a convincing advisory service
- High benefit on registered data in management tools (and breeding evaluation)
- Cooperation with authorities
- Automated registration

Thanks for your attention

More information?

Meet us in the **exhibition area** or contact us
via **VFL.DK**

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Knowledge Center for Agriculture
Cattle Department
jhf@vfl.dk