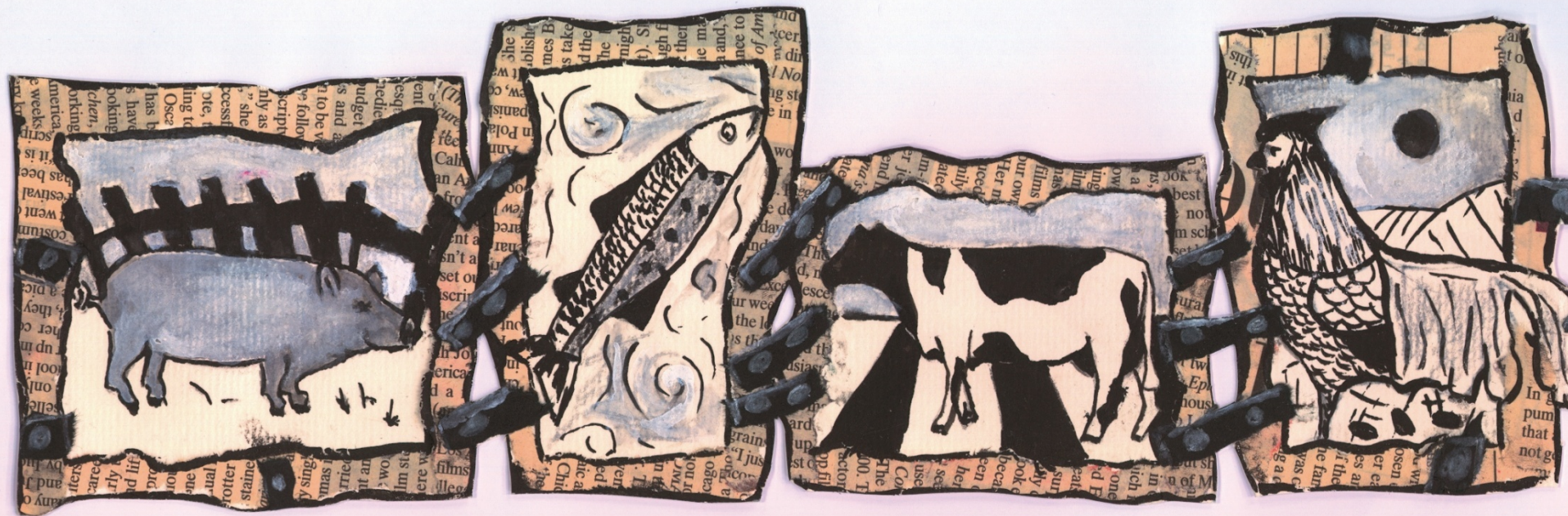


Animal Health Data Comparison



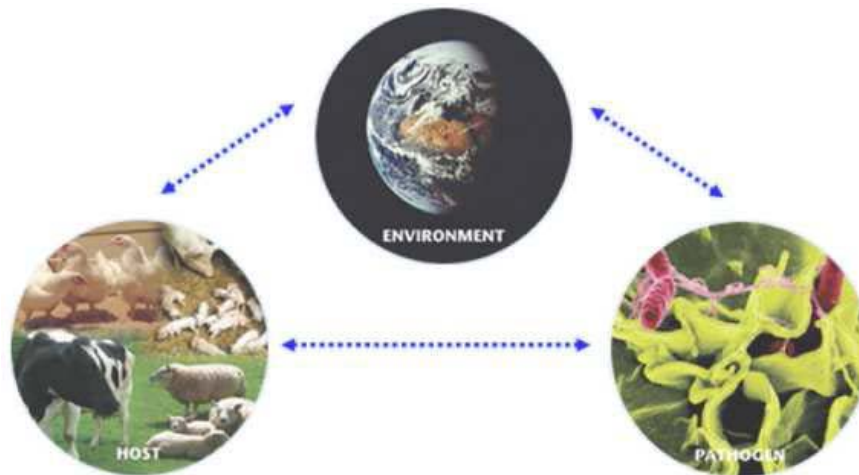
Anne-Marie Neeteson, Erik Rehben
Alain Malafosse, Gilles Blériot
ICAR Riga
2 June 2010



- **European Forum of Farm Animal Breeders** www.effab.info
 - **Farmers' cooperatives and companies**
 - **Cattle, pigs, poultry, farmed fish**
 - Research (lobby) and partnering research
 - FABRE Technology Platform www.fabretp.org
 - New technologies
 - Code of Good Practice
 - IP issues, and Patent Watch
 - Genetic diversity and ABS
- **Industry EADGENE** www.eadgene.org



- European Animal Disease Genomics Network of Excellence for Animal Health and Food Safety
- Aims to coordinate a **genomics** approach to the unravelling of the **host-pathogen interactions in domestic livestock**



**Genomics needs phenotypic data,
such as field health data**

- Request from the industry (breeders)
- International comparability of data on animal health
 - Availability
 - Standardisation
 - Practical situation
 - Stimulating and hampering issues
 - » How to work with / overcome these



- Phase 1 - Pilot study (EADGENE)
- Phase 2 - Stakeholder (EADGENE)
 - Working groups (EADGENE)
 - More country diagrams
- Phase 3 : You...?



1. Overview & map of animal health recording, establish data trail, data comparability
 - cattle, pigs and poultry
 - UK, DK, NL, FR but with a breeder's perspective
2. Differences & Similarities
 - between countries
 - between species
3. At a practical level!

General diagram

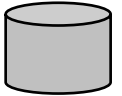
Primary sources

Statutory

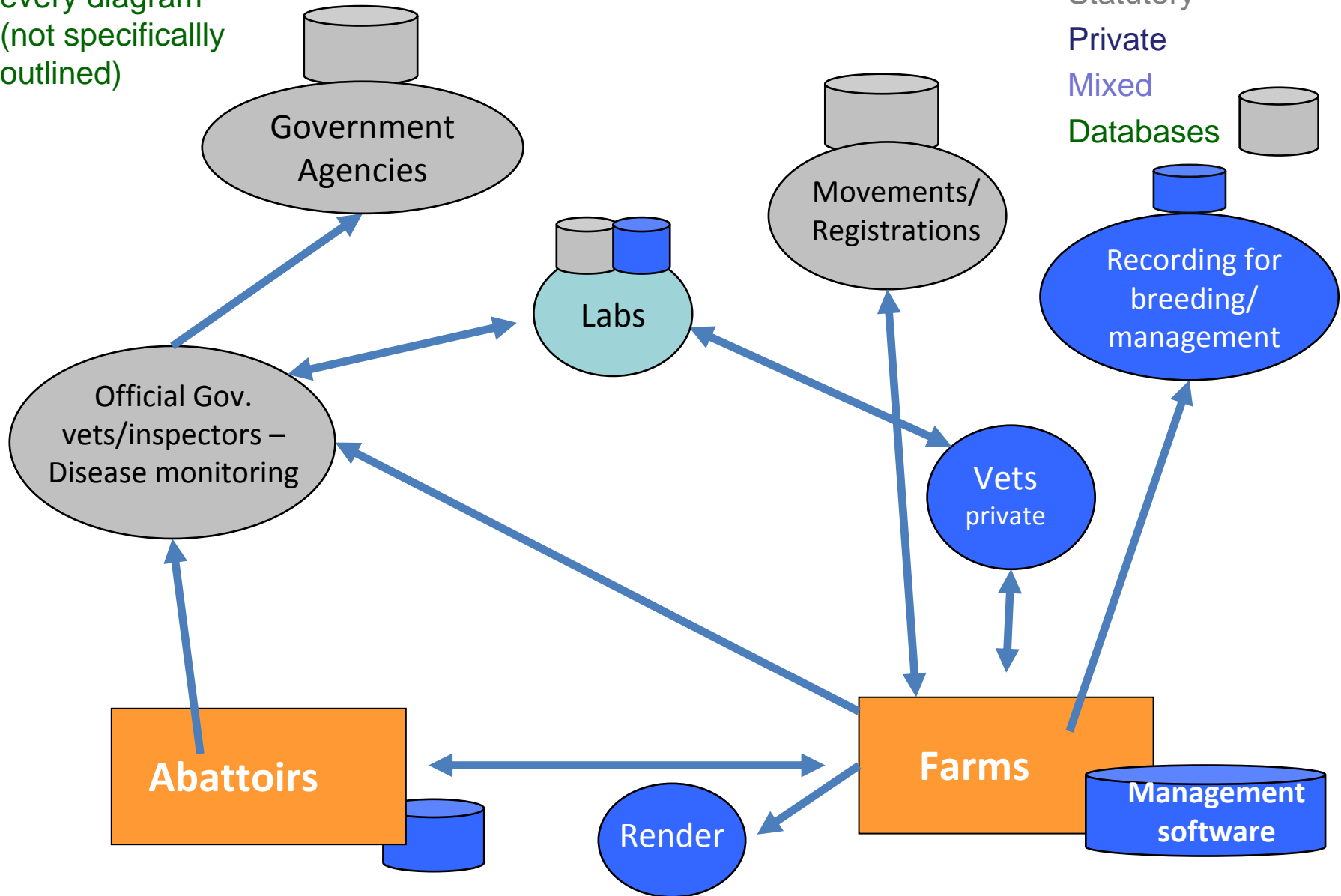
Private

Mixed

Databases

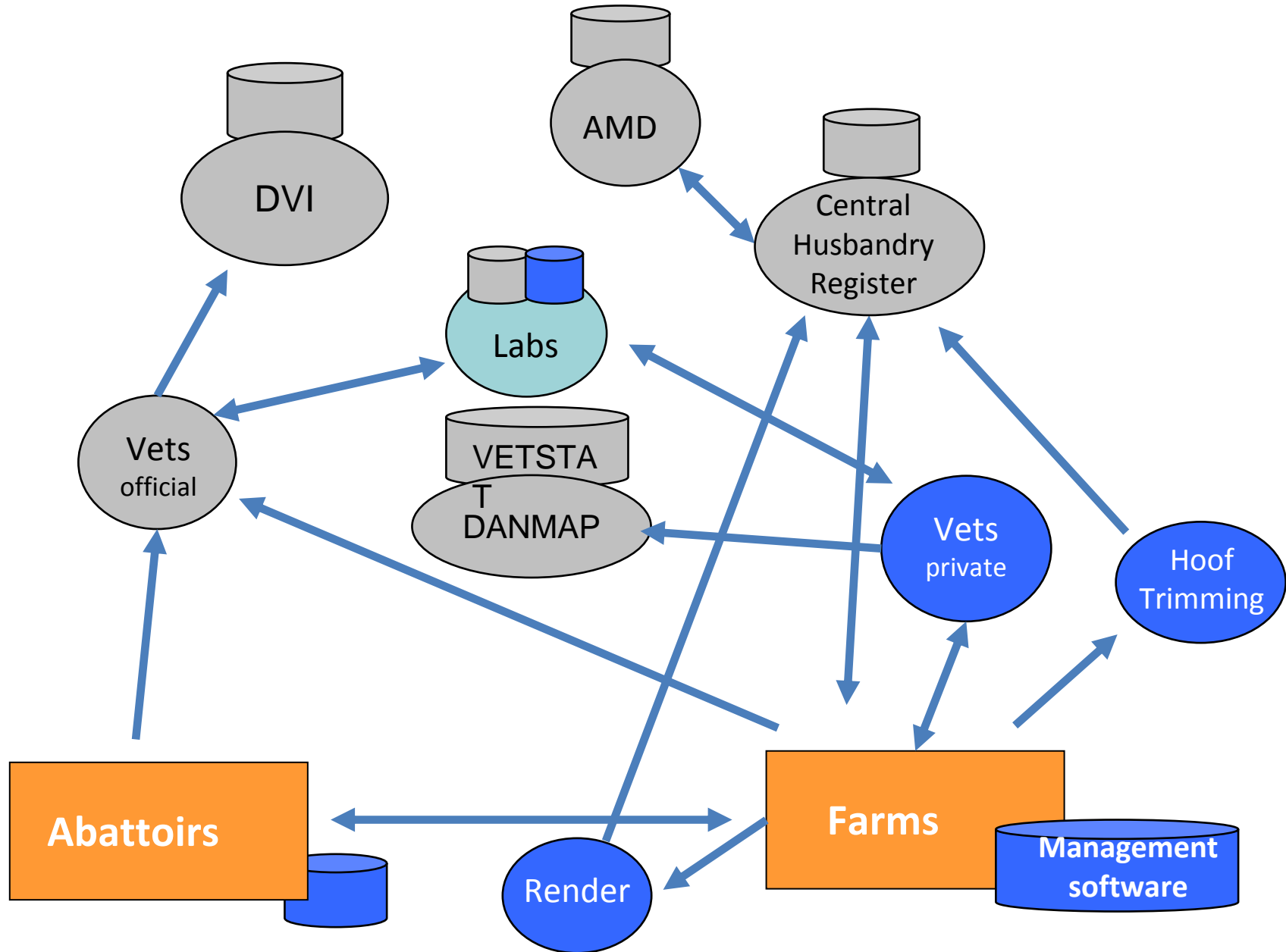


TRACES (cattle) in
every diagram
(not specifically
outlined)



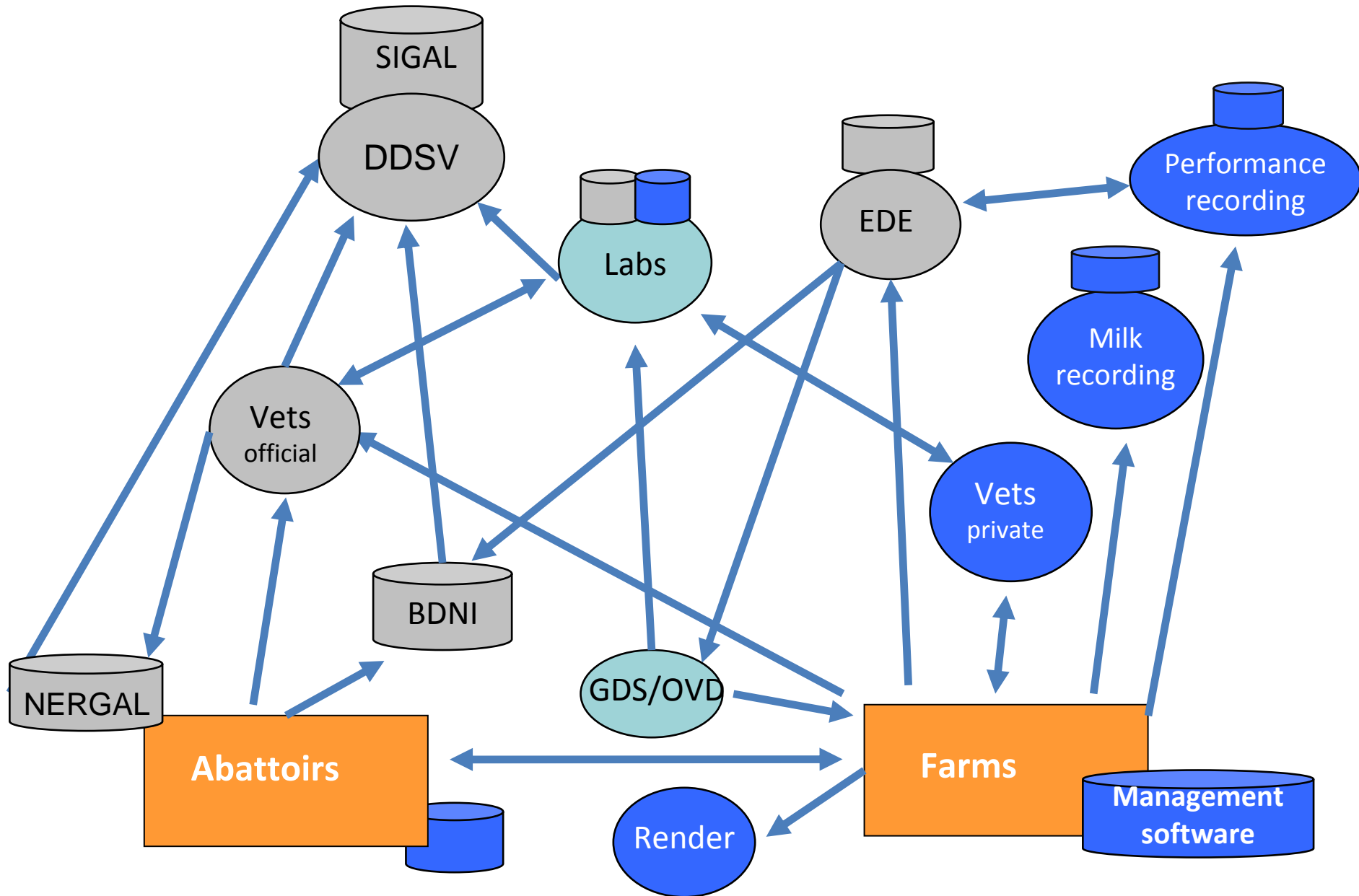
Denmark

Cattle



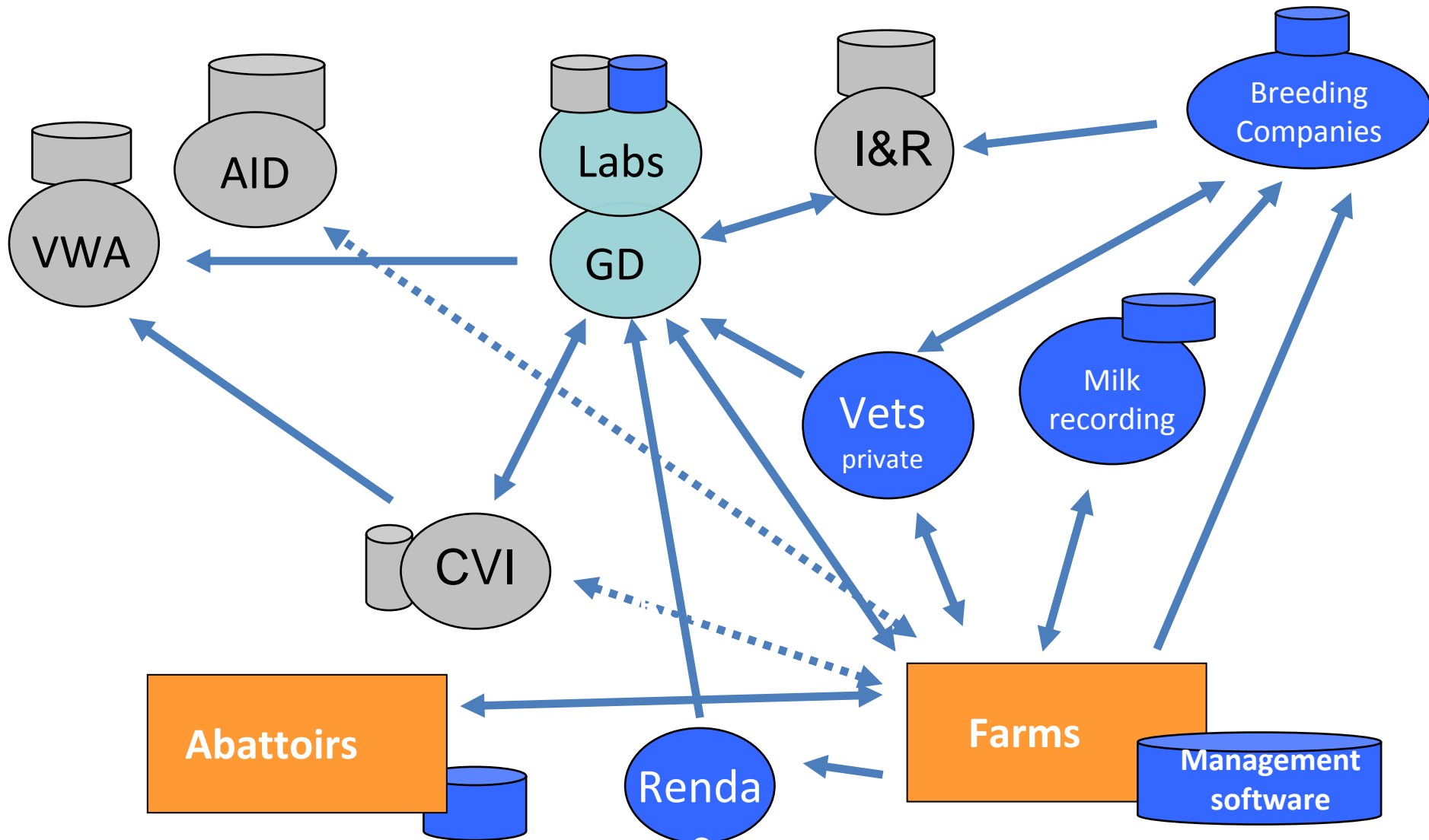
France

Cattle



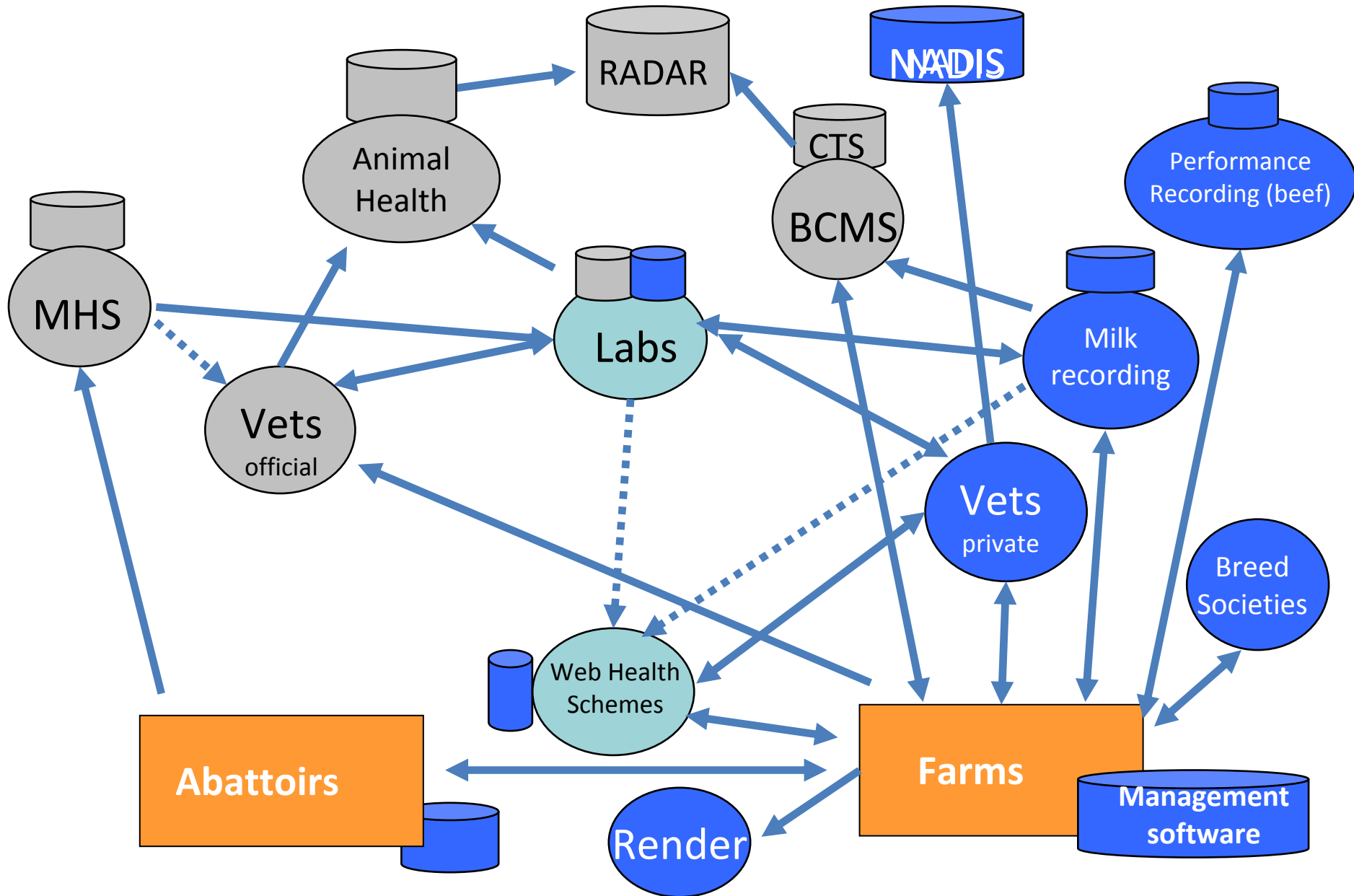
Netherlands

Cattle



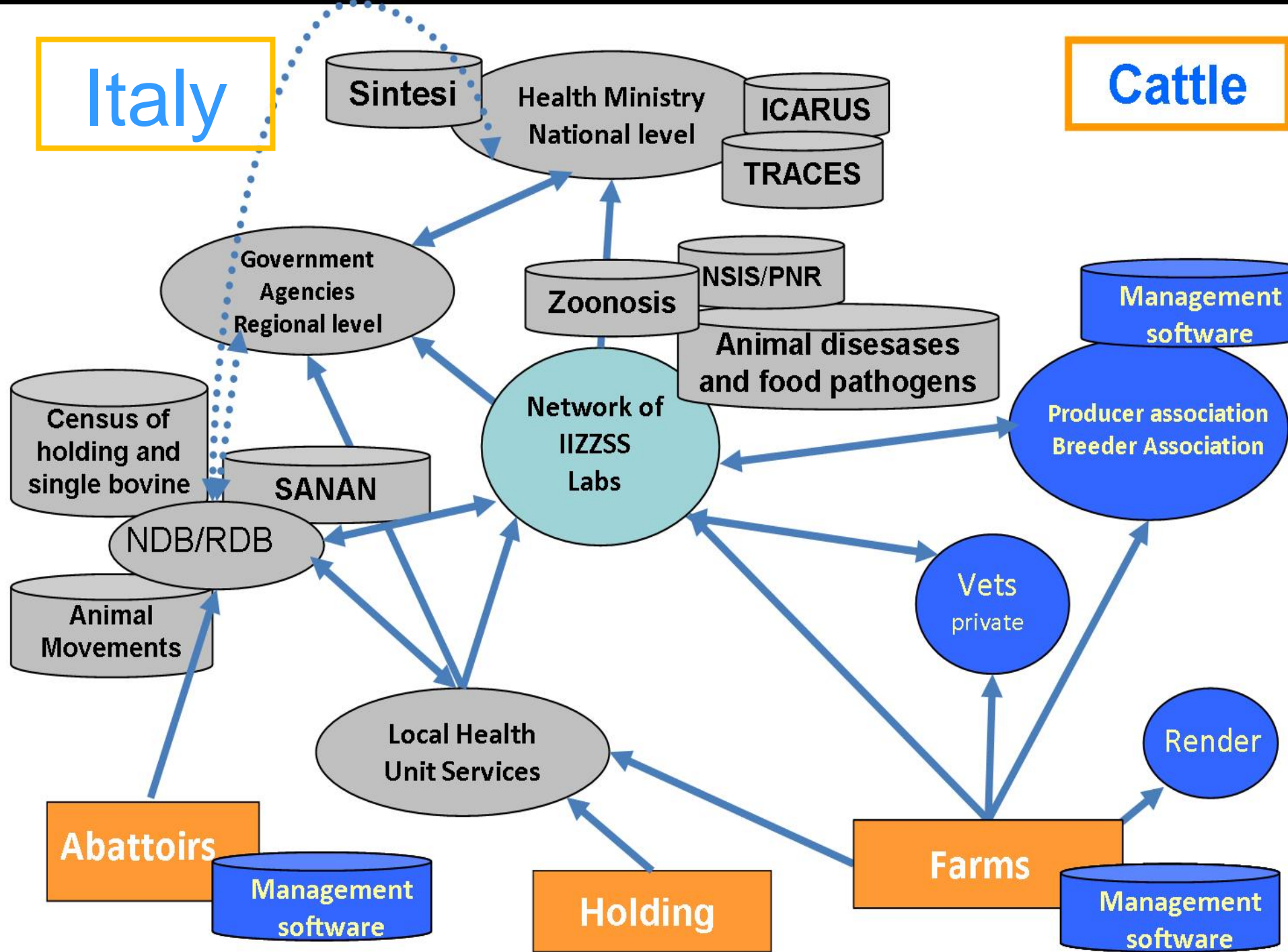
UK

Cattle



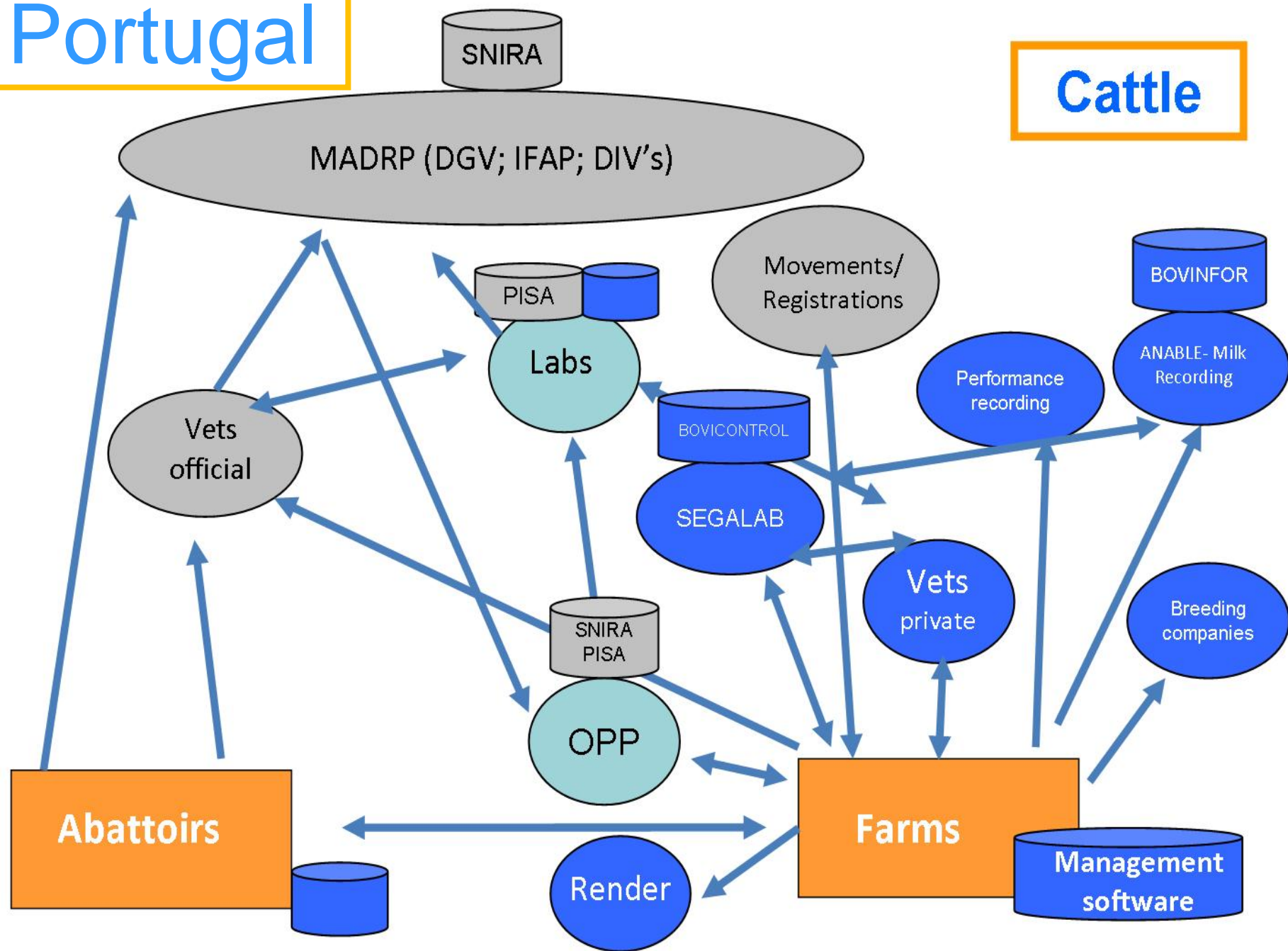
Italy

Cattle



Portugal

Cattle



- Identify opportunities sharing + systems development
- Stakeholder interactions
 - Two workshops
 - May 2009 Brussels
 - Working Groups **Cattle**, Pigs, Poultry
 - October 2009 Paris
 - Plan future development data comparability (Phase 3)



Advantages for stakeholders (1)

- Prevalence information, facilitating timely and adequate reaction to changes
- Tool for benchmarking



- **Breeders/farmers**

- **Comparable EU data on to assess breeding developments at slaughterhouse and other levels**

- **Animal Health Industry**

- Input for R&D, product innovation and product registration
- Improved positioning of products, optimizing efficiency of use

- Processing Industry

- Enhanced knowledge of relation animal nutrition – animal health
- Pre-harvest selection for specific processing
- Pre-harvest selection to optimise abattoir logistics/utilisation capacity

- Research Institutions

- International, comparable AH data for R&D
- Easier to find and arrange the use of AH data



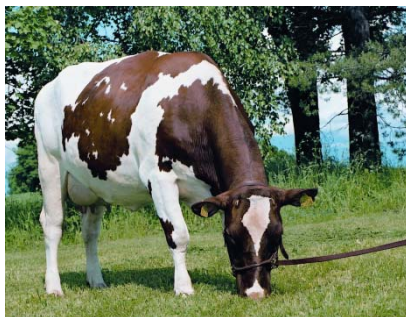
Advantages for stakeholders (3)

- EU + Member States Administrative Bodies
 - Availability AH data non-notifiable diseases across countries
 - Better international surveillance disease development
 - across countries
 - over time
 - Knowledge on AH data gathering & management from other countries



- Participants per country

Country	Surname	First name	Company
Spain	Diaz	Clara	INIA Depto de Mejora Genética Animal
Portugal	Ferreira	António	ABLN
Italy	Manca	Gracia	Instituto Zooprofilattico Sperimentale delle Venezie
France	Selosse	Coralie	FNGDSB
Netherlands	Van der Linde	René	CRV
Slovenia	Klopčič	Marija	University of Ljubljana - Biotechnical Faculty - Dpt Animal Science
Belgium	Stoop	Sigrid	Animal Health Care Flanders



Stakeholders and Added Value

- Farmers

 - Identify source of economic losses

- Veterinarians

 - Coordinated actions in prevention of diseases

- Advisory services

- Breeding organisations

- Recording organisations

 - Health status of farms

 - Share knowledge – Common vocabulary

- Research

 - Genomics → EADGENE Network





Driving Idea

- Facilitate the implementation of several but harmonised :

Recording systems

Architecture of data

- Define a **general framework for all diseases** (e.g. Mastitis, lameness, bovine hypodermosis, BHV1, paratbc, pneumonia, diarrhoe calves)

- **Win / Win situation**

Returns of information for all stakeholders

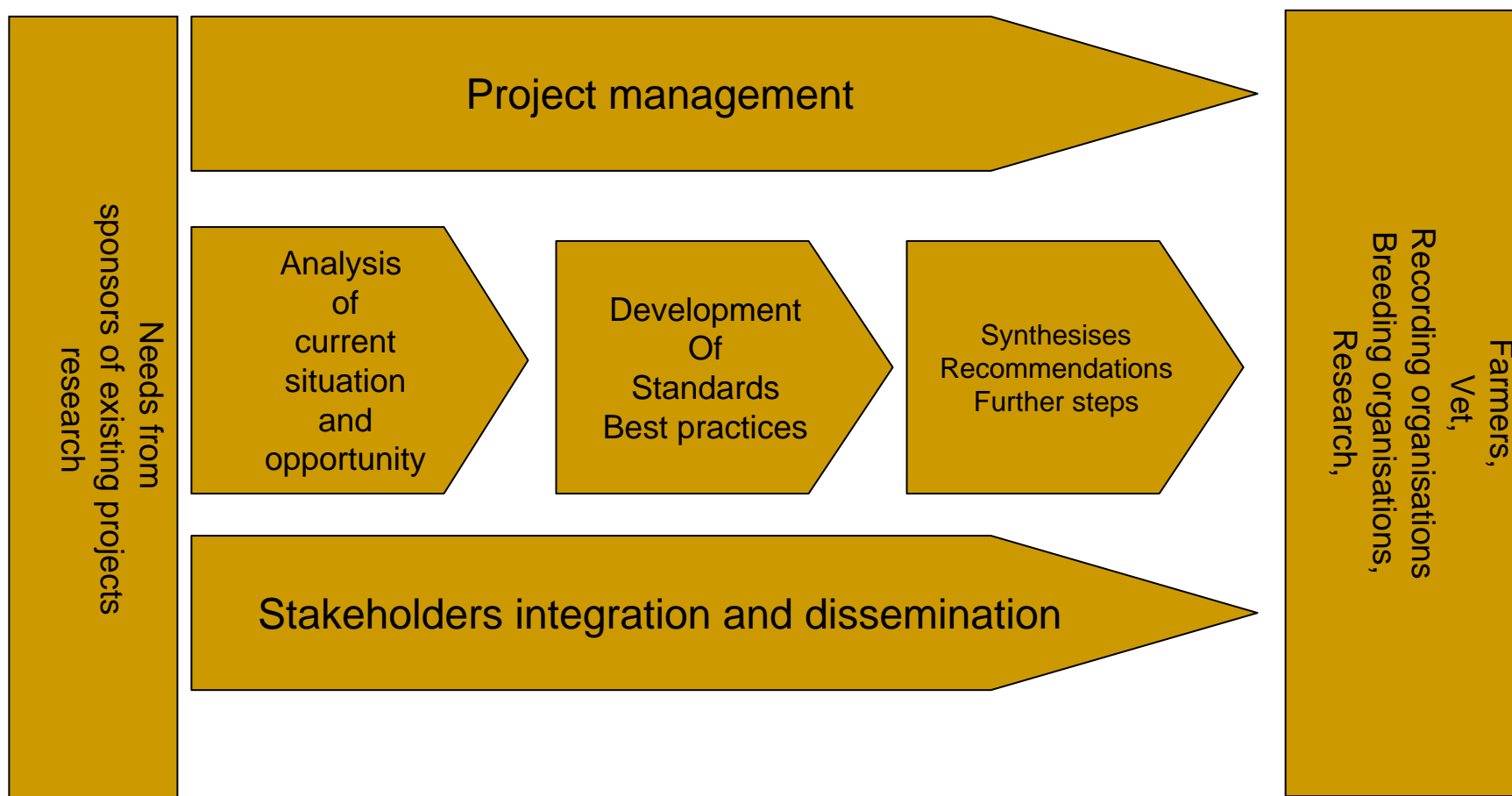
Key Issues

- Stakeholder's implication
- Standardised diagnosis and codification
- Guide for best recording practices

- Needs from the sponsors :
Share knowledge
Identify and share best practices



General overview of a possible project



Canada

Agriculture and Agri-Food Canada (AAFC)

- National Animal Health Project
- 8 key diseases
 - milk fever, left displaced abomasum, cystic ovarian disease, clinical mastitis, retained placenta, metritis, ketosis, lameness
- Improve management / economy farm level
- Improve production selection indices
- AI centres, breeds associations, veterinarians...

Way Forward (Phase 3)

Working Group in international organisation

.....

- *Broad stakeholder commitment*
- *Knowledgeable in recording & data architecture*
- *Bottom up- practical*
 - *farmers' and breeders' reality*



Questions?

- More information:

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