

Ovis – Capra (OviCap)

Development of a generic database for sheep and goat Germany

A project together with German sheep and goat associations in cooperation with the Saxon State Institute for Agriculture under direction of VdL

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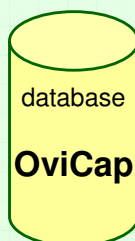
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Objective

- Development of a integrative database solution over all herdbook-associations for sheep and goat breeding
- Dissolutions of the local databases and herdbook programs for each association and transfer of the data into a central database
- Comprehensive storage of information with a relational database model
- Realisation of a integrated breeding value estimation
- Monitoring of genetic resources
- Set up an infrastructure to put EU-guidelines concerning traceability and scapie eradication into practice

Information

- Milk performance testing
- Field performance testing
- Station performance testing
- Animal transfer
- Pedigree
- Genotype testing
- Markets and Exhibitions of animals



Using

- Herdbook
- Genetic Evaluations
- Management of flocks
- Analysis of population parameters
- traceability
- Monitoring of genetic resources

Methods: Using APIIS for

- Loading historic data
 - listing all data streams
 - normalizing all data elements and creating a database model
 - determining all external animal and code information
 - loading each data file into a target structure
 - defining business roles to check data
- Implementation of routines for data flow
- Implementation for applications, reports, masks, genetic evaluation etc.

What is APIIS?

- an **Adaptable Platform Independent Information System**
- general applicable software framework running on UNIX/LINUX and Windows
- generic database structure for animal production information systems
- the exclusive use of open source system software which is free of charge
- a scalable system which can used from small on-farm to large national systems
- open system, which can be modified and expanded by users

Statistics about OviCap

- Data from 12 herdbook associations are now included

Association	Numbers	Animals	Codes
BB	969615	80745	1780
BW	42728	41977	3156
HE	244931	213885	2258
MV	94273	78238	1579
NS	217434	232124	2011
SA	140783	119801	1608
SN	116929	98058	2762
SP	16576	12622	558
ST	51212	43840	876
TH	235239	200767	1228
WE	95358	76515	459
WF	240974	185154	664

- Loading of data from three different systems
 - 9 x "OVIS"
 - 2 x "Wichmann"
 - 1 x Single Solution
- 87 different source tables were analysed
- OviCap contains 44 tables to save all different information

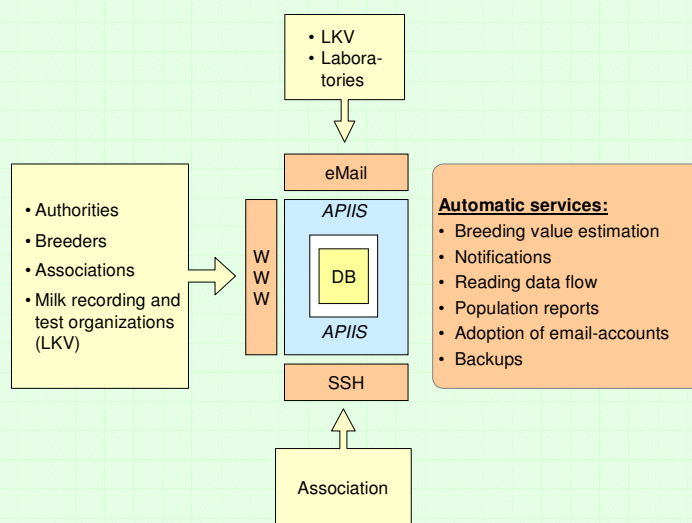


Figure 1: Possibilities to access to the central database OviCap