EFABISnet – An integrated network of decentralized country biodiversity and genebank databases


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EAAP - European Federation for Animal Science
The aim of the project

- Setup of decentralized national inventories of animal genetic resources in 12 countries
- Establishment of decentralized national inventories of national gene bank collections in 10 countries
- Development of permanent management structure of the European network of animal genetic resources
Consortium members

- EAAP (Coordinator)
- FLI – Germany
- FAO
- EAU – Estonia
- RIAP – Slovak Republic
- CONSDABI – Italy
- UNIMI – Italy
- UNIBFLJ – Slovenia
- ARI - Cyprus
- DLO – The Netherlands
- MTT – Finland
- DEFRA – United Kingdom
- HBLFA- Austria

Outside EU:
- LBHI – Iceland
- FOAG – Switzerland
- GNAAP - Georgia
What is EFABIS

- A register of domesticated animal breeds
- A repository for documents related to the management of AnGR
- A contacts folder for the National and Regional AnGR Coordinators
- An advanced information and communication tool

Photo credit: Rinderzuchtverband Kärnten
What is EFABIS II

Breed Data Sheets
Schlesiger Kalblut/Horse/Germany

Breed names

<table>
<thead>
<tr>
<th>Most common name</th>
<th>Schlesiger Kalblut</th>
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<tbody>
<tr>
<td>Language</td>
<td>ger</td>
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<td>Transboundary or brand name</td>
<td>Schleswig Coldblood</td>
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Breed local names

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<td>Silesian Coldblood</td>
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Images

Schlesig Kalblut stallion. Year: 1995
Gender: male
Photo credit: Prof Hans Hinrich Sambrugs; 4304506

Locality:

Population data

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Translated in many languages
What is CryoWEB

- Documentation system for national genebank inventories
- Minimal required data set for ensuring usability of the material after many years
- Options to enter also specific data
- Restricted access to sensitive data
The FABISnet network
The setup after EFABIS project

- EFABIS– Mariensee, Germany
- Poland pilot national database – Balice, Poland
- DAD-IS – FAO, Rome
EFABIS installations in partner countries

Installations in:

- Austria
- Cyprus
- Estonia
- Finland
- Georgia
- Iceland
- Ireland
- Italy
- Netherlands
- Slovakia
- Slovenia
- Switzerland
- United Kingdom

The plans were fulfilled more than 100% – extra installation in Finland
EFABISnet was even extended…

…and two more national databases were set in Greece and Hungary.
The rest of the EU countries?

They have access to enter data directly in EFABIS or DAD-IS and read data from each of the existing databases.
National genebank documentation systems - CryoWEB

Installations in:
- Austria
- Estonia
- Finland
- Georgia
- Greece*
- Iceland
- Italy*
- Netherlands
- Slovakia
- Slovenia
- Switzerland

* - additional installations

Currently CryoWEB is being installed in United Kingdom
Current development

- Geographic information system module for distribution of the populations
- Production environment descriptors module
- Linking the breed performance data to a production environment
- Installation of CryoWEB in United Kingdom
Dissemination activities

The project results are regularly disseminated to a wide audience of scientists, farmers and general public on international conferences and workshops, including inter alia:

- 5th biennial conference of the European federation of IT in Agriculture (EFITA)
- 59th and 60th Annual Meeting of the European Federation of Animal Science
- 13th, 14th and 15th ERFP Annual Workshop
- Conservation of livestock genetic resources by utilisation workshop
European added value

- Increased data quality of the European breeds register
- Wider dissemination of the national genetic resources information on regional and world level
- Access to the information in many languages - broader target group
- A “reference” for educational purposes and creation of awareness
European added value II

- Defined a minimum data set for proper management of national gene banks of cryogenic material
- Uniform software for gene bank documentation
- Aggregated inventory of the European gene banks in the regional breeds register
- Towards uniform documentation system in Europe
Sustainability

- National nodes set in scientific institutions and ministries with permanent personnel
- Cooperation between EAAP, ERFP and FAO
- Under the supervision of the national coordinators of management of AnGR
Thank you for your attention!