


Proposal for improving the interoperability of EUGENA with DAD- IS/EFABIS



Meeting of the Ex situ Conservation Working Group
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Background

EFABIS/DAD-IS

DAD-IS is the Domestic Animal Diversity Information System maintained and developed by FAO. It provides you with access to searchable databases of breed-related information and photos and links to other online resources on livestock diversity. Furthermore, you can find the contact information of all National Coordinators for the Management of Animal Genetic Resources. It allows you to analyse the diversity of livestock breeds on national, regional and global levels including the status of breeds regarding their risk of extinction.

EUGENA

WELCOME

on the Web portal of EUGENA,
the European Genebank Network for Animal
Genetic Resources

EUGENA brings together gene banks under the umbrella of the European Regional Focal Point for Animal Genetic Resources with the objective to support the ex situ conservation and sustainable use of the livestock in Europe

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Current state

- Data in EUGENA is provided via the NC on behalf of the Member Gene banks
- Data is provided in MS Excel format
 - Gene bank contact details
 - Storage locations information
 - Gene bank content at the time of submission

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How are breeds identified in the file

- Identification of a breed
 - Species
 - Country name
 - Breed name (EFABIS/DAD-IS Most common name)
- Identification as transboundary breed
 - Species
 - Transboundary name (DAD-IS controlled list).

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Input file processing

- Initial checks for completeness and compliance with the format (manual)
- Data is checked against EFABIS/DAD-IS (manual)
 - Presence in EFABIS/DAD-IS
 - Breed names spelling
 - Transboundary name
- Data is checked against EUGENA
- Breeds' names, not present in EUGENA, are manually entered
- The data from the input file is then uploaded in the database.

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Interoperability issue

EFABIS/DAD-IS**EUGENA**

A change in the breed name in DAD-IS, breaks the link from EUGENA to the Breed data sheet and this has to be manually traced and fixed

Designed by slidesgo / Freepik

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How FAO has improved the interoperability of EFABIS/DAD-IS

- Persistent identifiers (IDs)
 - Breed names
 - Species
 - Transboundary names
- Set of Application Programming Interfaces (APIs)

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Proposed changes in EUGENA

- Introduce these IDs in EUGENA
- Automatically update the information for breeds and species using the APIs available from FAO
- Allow entry of data for breeds, not recorded in DAD-IS

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What should be done

- Develop an additional form for indexing non DAD-IS breeds by the administrator
- Extend the database with fields to link DAD-IS data
- Develop automated loading of breeds and species names in EUGENA
- Develop automated process to check for changes and apply the updates

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What should be done (cont.)

- Download the current breeds and species names data from DAD-IS and load it in EUGENA
- Complete the existing records with the data for linkage

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Additional requests

- Extend EUGENA database with a field indicating implementation of QMS system and include this field in:
 - the data entry form
 - the gene bank contact data
- Develop export functionality in the format for upload in DAD-IS/EFABIS