

Food and Agriculture
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SUSTAINABLE
DEVELOPMENT


GOALS

FAO Report to ERFP

September 2019 – August 2020

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Overview

Overview

- ITWG – AnGR
- DAD-IS/EFABIS development
- Animal Genetics Website
- Other Changes
- Take home messages



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ITWG-AnGR

Intergovernmental Technical Working Group on Animal Genetic Resources

- One of 4 sectorial ITWGs (Animals, Aquatic, Forests, Plants) of the CGRFA, **biennial** sessions
 - 10th Session of the ITWG-AnGR was held in Rome from 27 to 29 **June 2018**.
 - ITWG makes recommendations to CGRFA, CGRFA makes decisions + requests
- 11th Session of the ITWG-AnGR to be held in Rome from 28 to 30 (physical) or 26 to 30 (virtual) **April 2021**



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ITWG-AnGR

Intergovernmental Technical Working Group on Animal Genetic Resources

- 17th session of the CGRFA 18 to 22 February 2019 adopted the report and made requests to FAO
 - Here you find the report of the CGRFA:
<http://www.fao.org/3/mz618en/mz618en.pdf>
- 18th Session of the CGRFA is currently proposed to be held in Rome from 27 September to 1 October 2021 (physical) or 27 September to 8 October 2021 (virtual)

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ITWG-AnGR
Intergovernmental Technical Working Group on Animal Genetic Resources

- FAO to continue to improve the knowledge base and scientific evidence of livestock species and breeds in the provision of **ecosystem services** – see e.g. thematic study at <http://www.fao.org/documents/card/en/c/cb0649en>

▪ FAO to continue developing and **updating guidelines** – guidelines on **Cryoconservation** (with IMAGE members) **Genomic Characterization** (with ISAG members) under development
- endorsed the **Guidelines on Developing Sustainable Value Chains for Small-scale Livestock Producers** and requested FAO to publish and distribute them widely – see: <http://www.fao.org/3/ca5717en/ca5717en.pdf>

▪ All other requests refer to DAD-IS....



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ITWG-AnGR
Intergovernmental Technical Working Group on Animal Genetic Resources

- FAO to further **maintain and develop** DAD-IS and to continue to **collaborate** with managers of national and regional systems and other stakeholders to develop and refine procedures for exchange of data.

▪ to complete the **translation** of the DAD-IS interface, provide additional **training material** and
- investigate the possibility of implementing into DAD-IS descriptors for **ecosystem services**, production systems and the geographical distributions of breeds.

Diapositive 5

- I1 Refer to the printing of the Guidelines Developing sustainable value chains for small-scale livestock producers ?

leroy; 19/08/2020



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ITWG-AnGR

Intergovernmental Technical Working Group on Animal Genetic Resources

- to develop an in-house analytical study on the factors influencing the reporting of unknown status for breeds in DAD-IS.
- to **allocate regular programme resources** to the continued maintenance and development of DAD-IS and continue to provide technical **support to countries on the estimation of breed population sizes** and on the use DAD-IS
- to include in DAD-IS data fields for monitoring the diversity of managed **honey bees** of relevance for food and agriculture



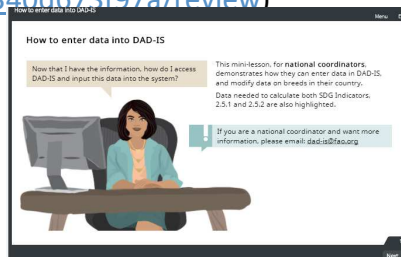
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DAD-IS/EFABIS Development

- User manual, quick guide for NCs, (<http://www.fao.org/3/cb0697en/cb0697en.pdf> and <http://www.fao.org/3/cb0698en/cb0698en.pdf>) ,
- e-learning tools (on risk categories at <https://360.articulate.com/review/content/f940acc0-29db-4431-a37a-870c91e17b77/review> and on data

entry (<https://360.articulate.com/review/content/95908ec3-199a-4e93-8811-1340d673f97a/review>)



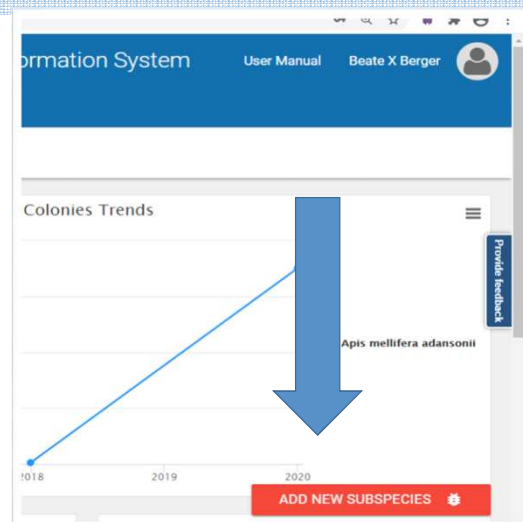


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DAD-IS/EFABIS Development

- Data entry tool for monitoring bees sent out on 22 June to all NCs for testing and feedback to NCs
- Feedback received and amendments already implemented (**special thanks** to Istvan Dani, Rita Hoving, Sezer ÖZ, Grazyna Polak, Fani Hatjina and ERFP WG Info&Doc)
- Second round of feedback until 15.09



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DAD-IS/EFABIS Development


- 5 National nodes developed in English. Slovenia and Greece provided translation into national language (Poland missing - implementation postponed due to severe delays from countries, no priority for 2020)
- Corrections implemented on request
- Specific mammalian species for Poland added (Nutria, chinchilla, polecat, fox)
- No requests for updates (e.g. for Did you know?, links, documents or basic

text) received – **PLS PROVIDE UPDATES**





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DAD-IS/EFABIS Development

Development of EFABIS tools continued

PLEASE USE THEM and PROVIDE
FEEDBACK

If not needed, please let us know

HomeDataIn FocusPublicationsNational CoordinatorsRegional/National Nodes

EFABIS

Tools

EFABIS Greece
EFABIS Ireland
EFABIS Poland
EFABIS Slovenia
EFABIS United Kingdom

European Farm Animal Biodiversity Information System (EFABIS)

Tools

Breed Data

Breed data sheet
Breeds by species and country
Population charts
Distribution of breeds across adaptedness classes

Transboundary breeds

Populations summary
Gene bank material
Collections development

Risk and trends


Early warning tool
Single breed population structure development
Comparing breeds on population structure development

Gene banks data


Collections browser
Collections development per country
Proportion of local breeds represented in gene banks
(new - shows the ratio local breeds with cryo material / local breeds registered by the country)

Other tools

Image browser



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DAD-IS/EFABIS Development

Development specific data export tools
for SDG indicator data – to be launched
in September (next official update of
SDG indicators)

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ENHANCED BY Google

EnglishEspañol

Domestic Animal Diversity Information System (DAD-IS)

HomeDataIn FocusPublicationsNational CoordinatorsRegional/National Nodes

Data export


1 Choose type of data

2 Choose country and/or
species

Country
All countries

Type of data
Metadata
Population
Cryo Conservation
SDG 2.5.1 (Coming Soon)
SDG 2.5.2 (Coming Soon)

DOWNLOAD ALL

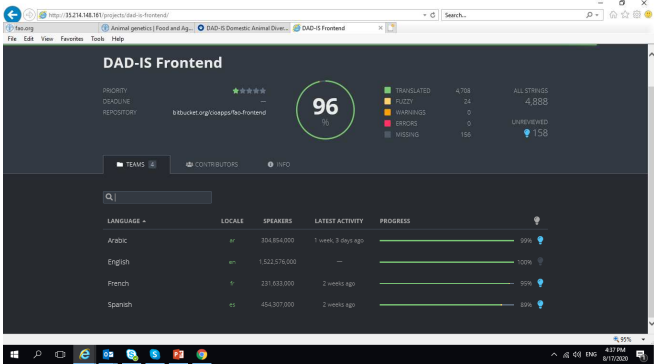


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DAD-IS/EFABIS Development

■ Implementation of a tool to allow complete translation into UN languages of the **DAD-IS interface and content** in testing phase



LANGUAGE	LOCALS	SPEAKERS	LATEST ACTIVITY	PROGRESS
Arabic	ar	304,854,000	1 week, 3 days ago	20%
English	en	1,523,576,000	—	100%
French	fr	231,833,000	2 weeks ago	50%
Spanish	es	454,307,000	2 weeks ago	10%



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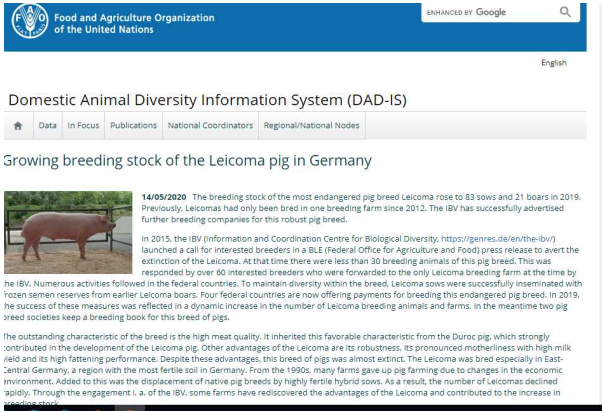
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DAD-IS/EFABIS Development

■ Success and other stories have been updated – **special thanks** to Germany and China

■ We are currently collecting publication to update <http://www.fao.org/dad-is/publications/en/>

■ **PLEASE PROVIDE success stories and/or publications relevant to the GPA-AnGR or DAD-IS**




Domestic Animal Diversity Information System (DAD-IS)

Growing breeding stock of the Leicoma pig in Germany


14/05/2020 The breeding stock of the most endangered pig breed Leicoma rose to 83 sows and 21 boars in 2019. Previously, Leicomai had only been bred in one breeding farm since 2012. The IBV has successfully advertised further breeding companies for this robust pig breed.

In 2015, the IBV (Information and Coordination Centre for Biological Diversity: <https://ipenres.de/en/the-ibv/>) launched a call for interested breeders in a BLE (Federal Office for Agriculture and Food) press release to avert the extinction of the Leicoma. At that time there were less than 30 breeding animals of this pig breed. This was responded by over 60 interested breeders who were forwarded to the only Leicoma breeding farm at the time by the IBV. Numerous activities followed in the federal countries. To maintain diversity within the breed, Leicoma sows were successfully inseminated with frozen semen reserves from earlier Leicoma boars. Four federal countries are now offering payments for breeding this endangered pig breed. In 2019, the success of these measures was reflected in a dynamic increase in the number of Leicoma breeding animals and farms. In the meantime two pig breed societies keep a breeding book for this breed of pigs.

The outstanding characteristic of the breed is the high meat quality. It inherited this favorable characteristic from the Duroc pig, which strongly contributed to the development of the Leicoma pig. Other advantages of the Leicoma are its robustness, its pronounced motherliness with high milk yield and its high fattening performance. Despite these advantages, this breed of pigs was almost extinct. The Leicoma was bred especially in East-Central Germany, a region with the most fertile soil in Germany. From the 1990s, many farms gave up pig farming due to changes in the economic environment. Added to this was the displacement of native pig breeds by highly fertile hybrid sows. As a result, the number of Leicomai declined rapidly. Through the engagement i. a. of the IBV, some farms have rediscovered the advantages of the Leicoma and contributed to the increase in breeding stock.



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DAD-IS/EFABIS Development

■ Initiative to support ALL countries to update data for SDG indicator 2.5.1 started

■ More than 65 countries provided feedback so far, FAO will upload results for them

■ Support on data collection for SDG indicator 2.5.2 provided to non-European countries – problems with field work due to COVID 19

■ PLEASE UPDATE YOUR DATA

SDG 2.5.1

SDG 2.5.1


Number / Proportion of animal genetic resources for food and agriculture secured in either medium or long term conservation facilities

Regions
Europe and the Caucasus


Countries
[40]

Species
[40]

Amount of cryopreserved material
■ Sufficient
■ Not Sufficient
■ No Material
■ No Information



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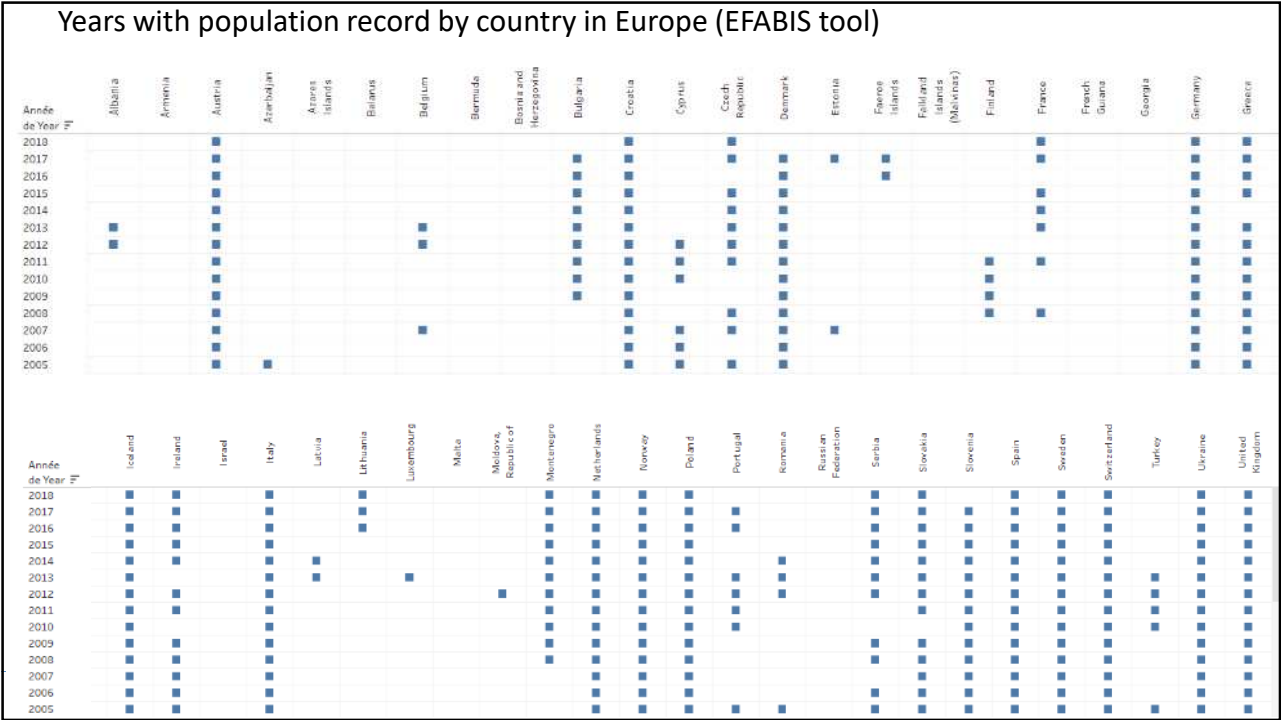
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■ 4292 population updates from 22 European countries since August 2019

■ Only 158 cryoconservation updates from 7 European countries in 2019-2020 in DAD-IS (current initiative not accounted)

Population updates in DAD-IS for national breed populations

Country	Updates	Country	Updates
Austria	172	Lithuania	42
Croatia	21	Netherlands	21
Czech Republic	1	Norway	26
Finland	5	Poland	271
France	78	Portugal	102
Germany	381	Serbia	23
Greece	37	Slovakia	107
Hungary	132	Sweden	50
Iceland	13	Switzerland	74
Ireland	2	Ukraine	57
Italy	303	United Kingdom	2374




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DAD-IS/EFABIS Development

- several information documents under preparation for ITWG-AnGR
- several scientific publications using DAD-IS data have been published
- Please use DAD-IS/EFABIS data also in your publications!

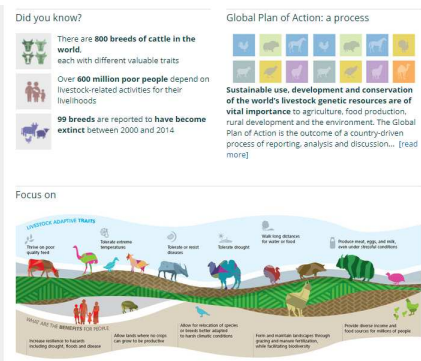


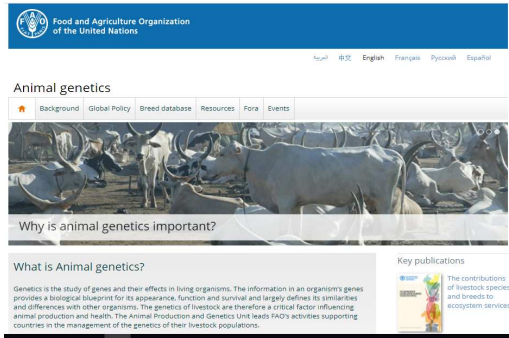
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Animal Genetics Webpage

- New Animal Genetics Webpage online at <http://www.fao.org/animal-genetics/en/>





Please visit it and help us to improve!




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Other Changes

- Since last August we do have a new director general, Dr QU Dongyu.
- FAO has a new structure – see the organizational chart at <http://www.fao.org/about/org-chart/en/> and new acronyms....AGA is now NSA, AGAG is now NSAG....
- We welcome a new colleague in the team of NSAG (Animal Production and Genetics Branch), Gregoire Leroy, and Beate Scherf is back!





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Take home messages

- ERFP is part of a global network with NSAG representing the GLOBAL FOCAL POINT
- FAO assists you in implementing the GPA-AnGR
- Channel your requests to FAO through the ITWG-AnGR and the CGRFA
- Be active in the ITWG-AnGR to make your voice heard
- Update and use YOUR DAD-IS/EFABIS
- Contact us if you have questions or need help!
- Paul.Boettcher@fao.org
- Roswitha.Baumung@fao.org
- Gregoire.Leroy@fao.org
- Beate.Scherf@fao.org
- Dad-is@fao.org



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THANK YOU