



EUROPEAN  
REFERENCE CENTRE FOR  
**ENDANGERED  
ANIMAL BREEDS**

# European Union Reference Center for Endangered Animal Breeds (EURC-EAB)

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Webinars Survey Implementation EU 2016/1012



Federal Office  
for Agriculture and Food





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# EU Animal Breeding Legislation

L 171/66

EN

Official Journal of the European Union

29.6.2016

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**REGULATION (EU) 2016/1012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL**

**of 8 June 2016**

**on zootechnical and genealogical conditions for the breeding, trade in and entry into the Union of purebred breeding animals, hybrid breeding pigs and the germinal products thereof and amending Regulation (EU) No 652/2014, Council Directives 89/608/EEC and 90/425/EEC and repealing certain acts in the area of animal breeding ('Animal Breeding Regulation')**



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# Designation of EURC-EAB

**COMMISSION IMPLEMENTING REGULATION (EU) 2022/2077**

**of 27 October 2022**

**designating the European Union reference centre responsible for the scientific and technical contribution to the establishment and harmonisation of the methods for the preservation of endangered breeds, and the preservation of the genetic diversity existing within those breeds**

**(Text with EEA relevance)**



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## Scope of the EURC-EAB

- Bovine, Porcine, Ovine, Caprine, Equine species
- EURC-EAB works on endangered breeds of those animal species only
- Responsible for the scientific and technical contribution to the establishment and harmonisation of methods for the preservation of endangered breeds, and the preservation of the genetic diversity existing within those breeds

Funding EC DG SANTE and national co-funding



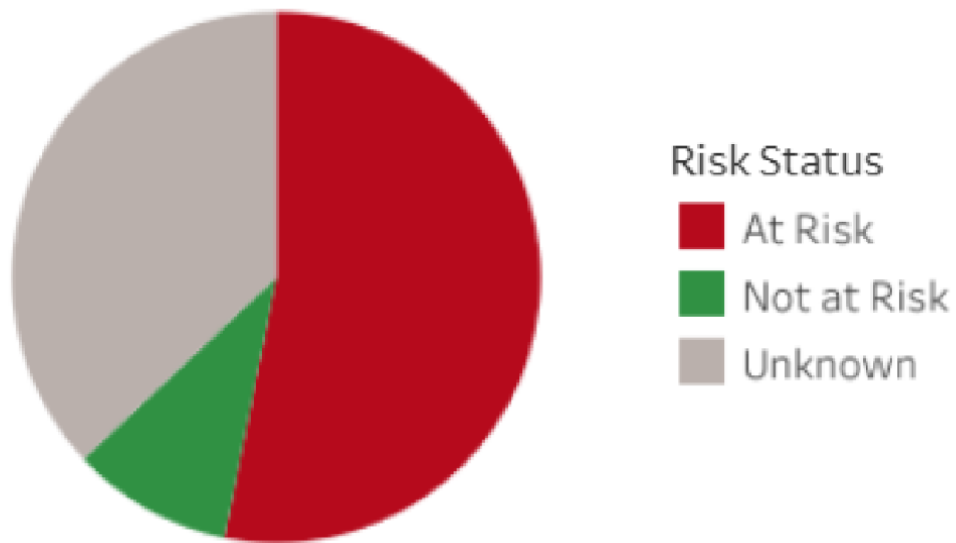
# Livestock breeds in Europe - Facts



COMMISSION ON  
GENETIC RESOURCES  
FOR FOOD AND  
AGRICULTURE

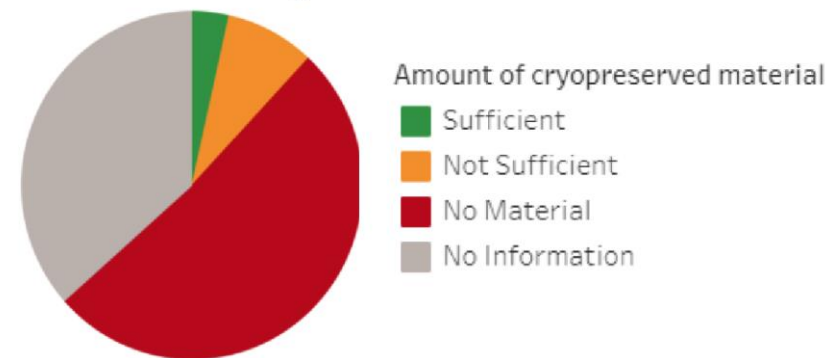


## SDG 2.5.2 Percentage of local breeds at risk of extinction out of which of known status



## Effective population size (Ne) often low for both local and mainstream breeds

### SDG 2.5.1b Number of local breeds secured in either medium or long term conservation facilities



# EURC-EAB consortium

- Wageningen Livestock Research (WLR, the Netherlands)
- Institut de l'Élevage (IDELE, France)
- Federal Office for Agriculture and Food (BLE, Germany)



# Core group

Coralie Danchin (IDELE)



Holger Göderz (BLE)



Sipke Joost Hiemstra (WLR)



Mirjam Spoelstra (WLR)



Lisa Balzar (BLE)



# Close link with European Regional Focal Point for AnGR

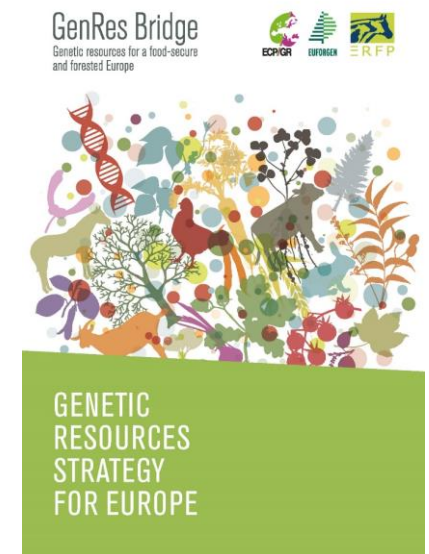
**Network** of European National Coordinators  
(NC) = European Regional Focal Point for AnGR

Implementation of **FAO Global Plan of Action** –  
European Coordination

## Working Groups

- In situ conservation
- Ex situ conservation
- Information and Documentation

## Task Forces and Ad Hoc Actions



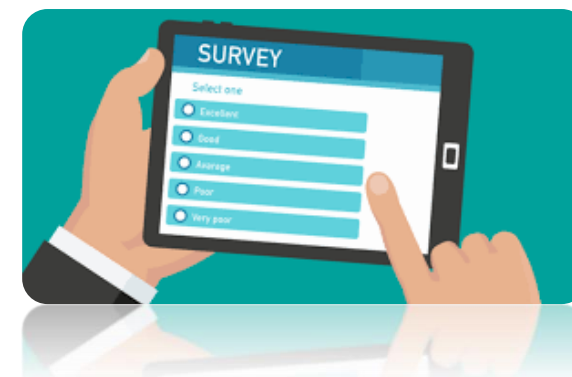


# EURC-EAB - Activities – According to Article 29 (4)(b)(ii) of Regulation (EU) 2016/1012

1. Cooperation with breed societies, third parties designated by breed societies and competent authorities
2. Methods for the preservation of endangered breeds, and the preservation of the genetic diversity existing within those breeds
3. Emerging problems, international cooperation and technical expertise

# Survey on status of implementation of (EU) 2016/1012 for endangered breeds

- Status of implementation of (EU) 2016/1012 among breed societies of endangered breeds
- Status of implementation of possible derogations, according to (EU) 2016/1012 for endangered breeds in breeding programmes
- Collecting national definitions and mechanisms
- Collecting questions, challenges, obstacles and other issues
- Also Non-EU countries to see the situation in whole Europe

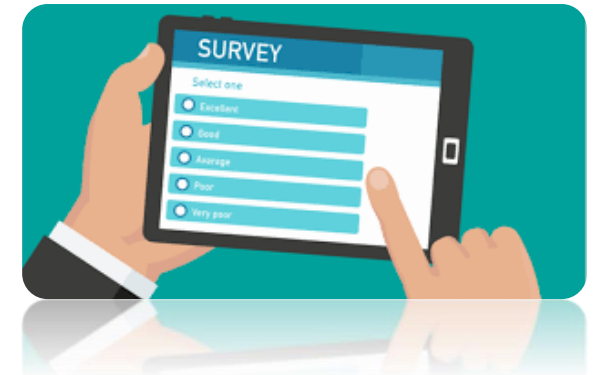


## Process of the survey

EURC-EAB will send the link to National Competent Authorities and National Coordinators for AnGR in short time.



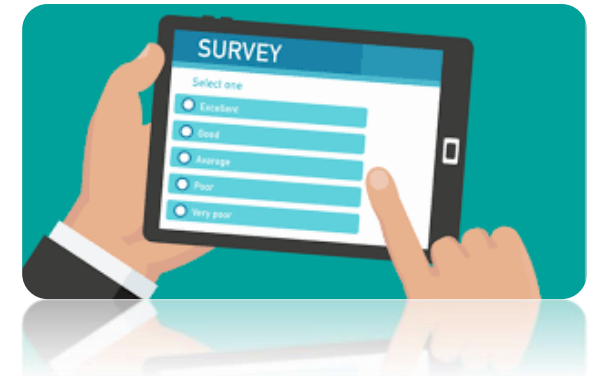
We kindly ask you to forward the link to all your national breed societies of the concerned species with some explanations in your national language to motivate them to take part.



## Process of the survey

Answers can be given within 4 weeks after sending (maybe extension for 2 further weeks)

Summary of results will be available latest end of the year (maybe presentation of first results at EAAP Meeting in Lyon in August)





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# Questions to National Competent Authorities and ERFP National Coordinators for AnGR

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66%

How do you distinguish the breeds in your country related to their origin? Please indicate which breed classification(s) you use.

- Native/domestic/indigenous
- Locally adapted
- Other
- We do not distinguish between the different types of breeds

< > NEXT

## Differentiation of breeds related to their origin

(Reference to FAO? National  
definitions?)



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# Questions to National Competent Authorities and ERFP National Coordinators for AnGR

71%

Do you use the endangerment classification system\* given by FAO in your country?

Yes

No, we use another/our own endangerment classification system

We have no national endangerment classification system

\***Extinct.** A breed is categorized as extinct when there are no breeding males or breeding females remaining and any cryoconserved genetic material that may be available is

**Cryoconserved only.** Breeds that have no living male or female animals remaining, but for which there is sufficient cryopreserved material to allow for reconstitution of the breed depend on the amount and type of stored germplasm. Requirements differ greatly according to species. Guidance on what constitutes cryoconservation of animal genetic resources (FAO, 2012).

**Critical.** A breed is categorized as critical if:

- the total number of breeding females is less than or equal to 100 (300 for species with low reproductive capacity); or
- the overall population size is less than or equal to 80 (240) and the population trend is increasing and the proportion of females being bred to males of the same breed is greater than 50 percent; or
- the overall population size is less than or equal to 120 (360) and the population trend is stable or decreasing; or
- the total number of breeding males is less than or equal to five (i.e.  $\Delta F$  is 3 percent or greater).

If the population trend is unknown, then it is assumed to be stable.

## Endangerment classification system

(Reference to FAO? National  
system?)



# Questions to National Competent Authorities and ERFP National Coordinators for AnGR



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76%

How many **cattle** breeds do you state as endangered in your country?\*

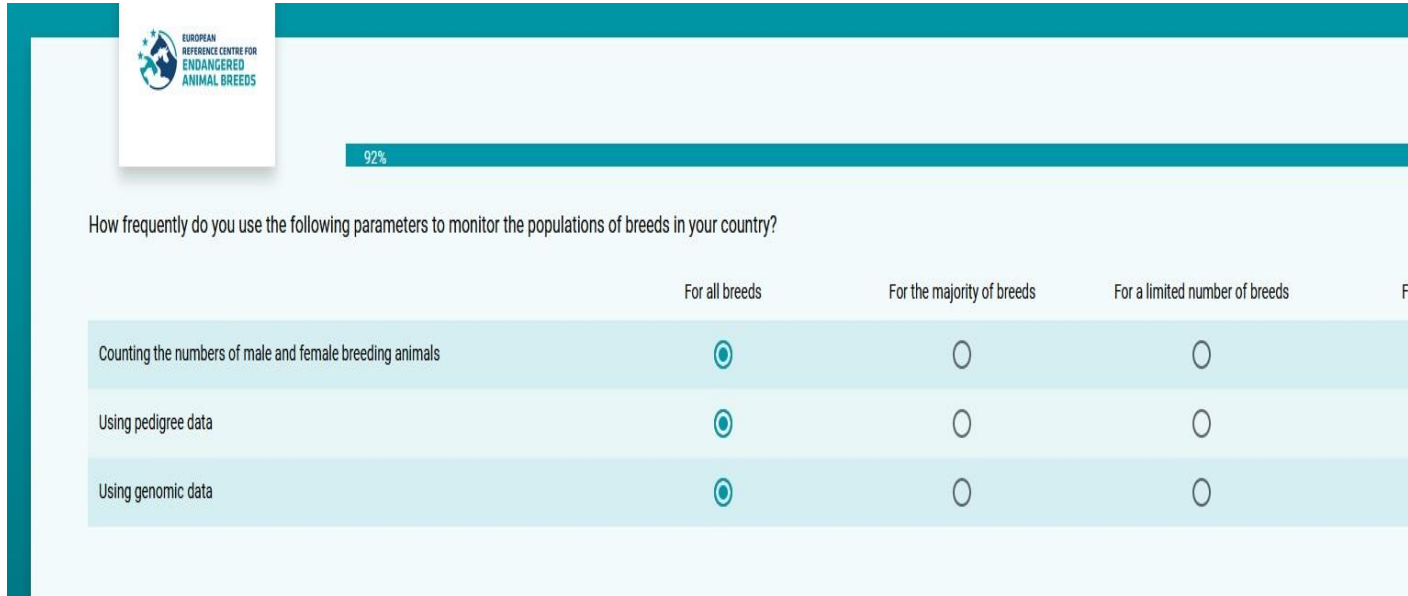
\* Please state a number between 0 and 100.

< > NEXT

Number of  
endangered breeds  
in your country



# Questions to National Competent Authorities and ERFP National Coordinators for AnGR



## Monitoring of breeds on national level

# Questions to National Competent Authorities and ERFP National Coordinators for AnGR

## **Important:**

Feedback to the implementation of EU 2016/1012 with special regard to breeding programmes for endangered breeds and the possible derogations for them



# Questions to breed societies and associations of breed societies

What is the goal of this breeding program?	Do you exchange breeding animals of this breed with other countries?	Do you record the performance of this endangered breed in your organisation?	Do you monitor the genetic variability of this endangered breed in your organisation?
Improvement of the breed <input type="checkbox"/>	Yes, with other EU countries <input type="checkbox"/>		
Preservation of the breed or the genetic diversity within the breed <input type="checkbox"/>	Yes, with other Non-EU European countries <input type="checkbox"/>	- Choose - ▾	- Choose - ▾
Creation of a new breed <input type="checkbox"/>	Yes, with countries from another continent <input type="checkbox"/>		
Reconstruction of a breed <input type="checkbox"/>	No <input type="checkbox"/>		

Information about breeding programmes for endangered breeds

# Questions to breed societies and associations of breed societies

How do you record the performance of the endangered breeds in your organisation?

According to production traits (e.g. milk yield)

According to functional traits (e.g. calving performance)

Other (please state on the right)

Information about performance recording for endangered breeds



# Questions to breed societies and associations of breed societies

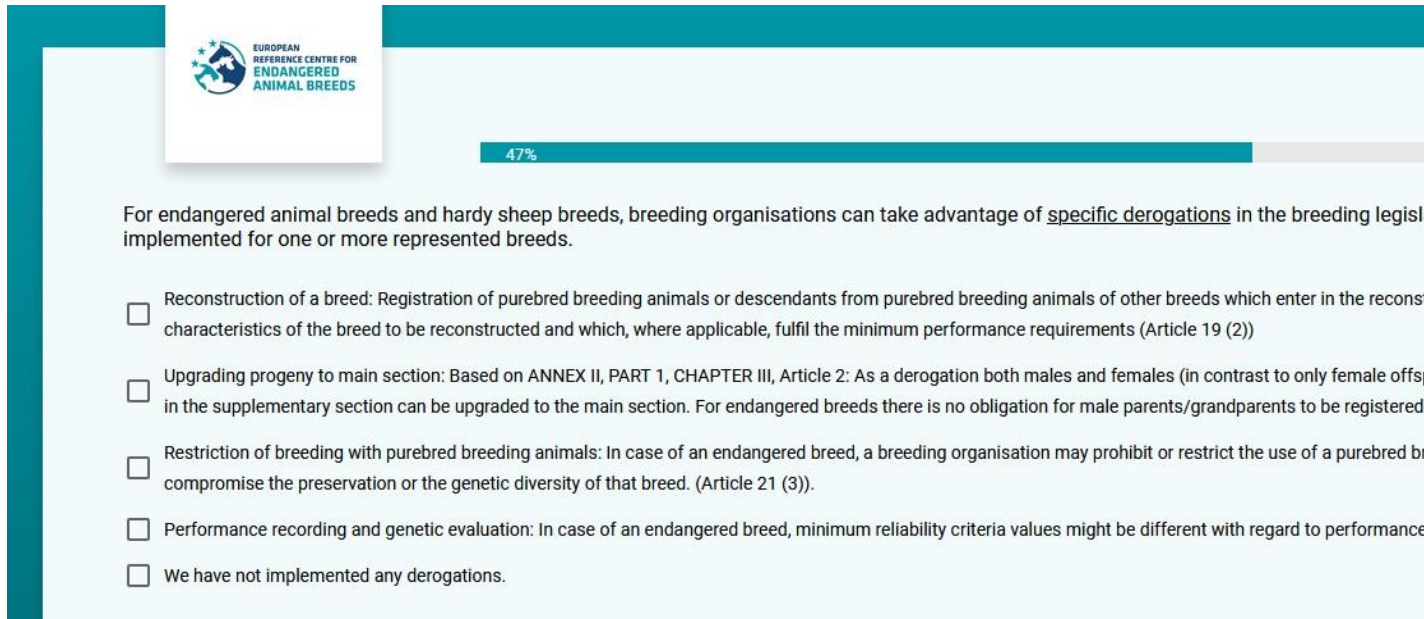
Based on which data are you monitoring the genetic variability?	Do you perform the genetic variability monitoring by yourself or through a third party?
<p>According to numbers of male and female breeding animals</p> <input type="radio"/>	<p>By ourselves</p> <input type="radio"/>
<p>According to pedigree data</p> <input type="radio"/>	<p>Through a third party</p> <input type="radio"/>
<p>According to genomic data</p> <input type="radio"/>	

Information about monitoring of genetic variability in your organisation





# Questions to breed societies and associations of breed societies



Information about derogations for endangered breeds in your breeding programmes

# Questions to breed societies and associations of breed societies

## Important:

Feedback to the implementation of EU 2016/1012 with special regard to breeding programmes for endangered breeds and the possible derogations for them

## Why should you participate in this survey?

- To...
  - ...help us to get an overview of the current situation
  - ...take the opportunity to give your valuable feedback to the EU

**The results of the study will influence the further work of EURC-EAB!**

**Aim is to further support NCAs and breed societies in implementing the EU animal breeding legislation.**

## Questions?

Thank you a lot in advance for your participation!

If there are any questions concerning the survey or the EURC-EAB in general, please do not hesitate to contact us!

[info@eurc-eab.eu](mailto:info@eurc-eab.eu)

<https://www.eurc-eab.eu/>



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Thank you for your attention





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