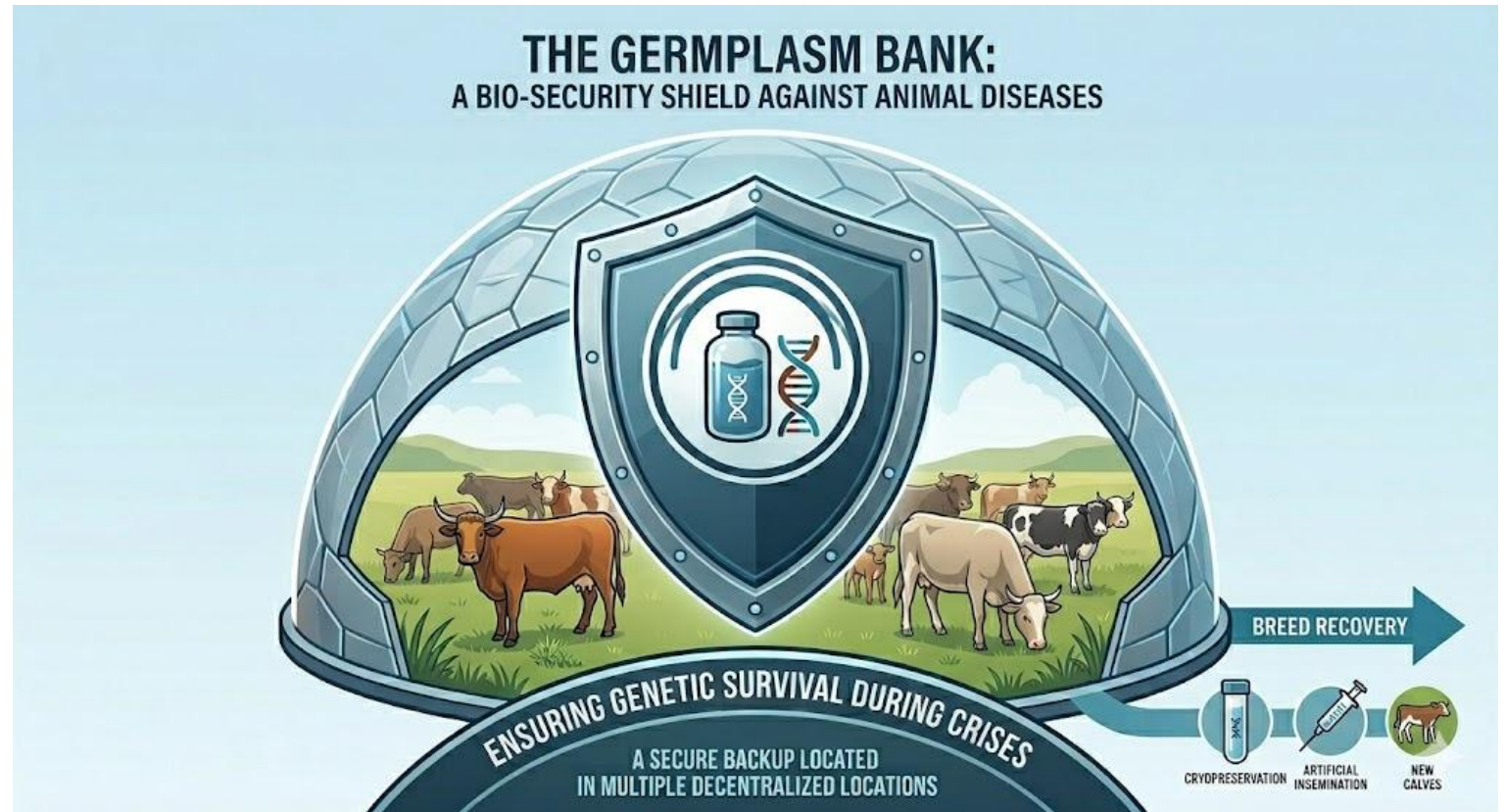


PREPAREDNESS OF GENE BANKS FOR POTENTIAL THREATS AND LOSSES IN LIVESTOCK POPULATIONS: SITUATION IN SPAIN

Fernando Tejerina Ampudia.

Ministry of Agriculture,
Fisheries and Food. Spain.



1. THREATS FOR LIVESTOCK POPULATIONS (ENDANGERED BREEDS).

Floods?



Outbreak of animal/human diseases?

War?

Forest fires?

Abandonment of livestock farming?

CROSSBREEDING?

Catostrophic events: volcanos, earthquakes...?

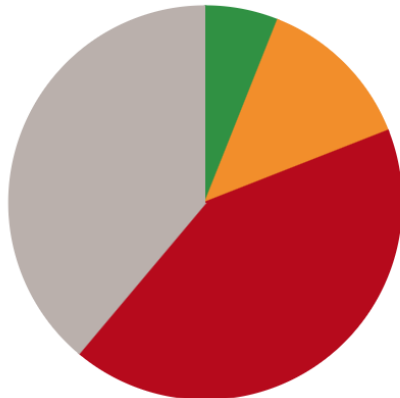


1. THREATS FOR LIVESTOCK POPULATIONS (ENDANGERED BREEDS).

BEST SOLUTION: AN ON GOING GENE BANK WITH A COMPLETE COLLECTION FOR EACH BREED AND A DUPLICATE IN OTHER LOCATION.

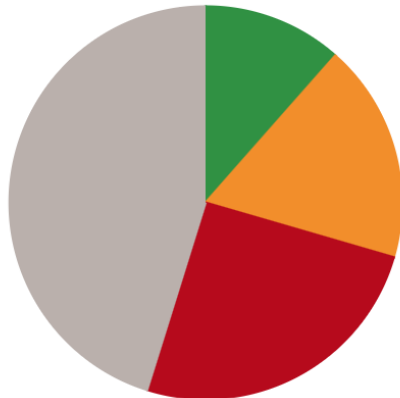
EUROPE

Local breeds

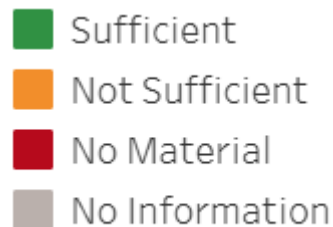


Last update: 31/12/2025

Transboundary breeds

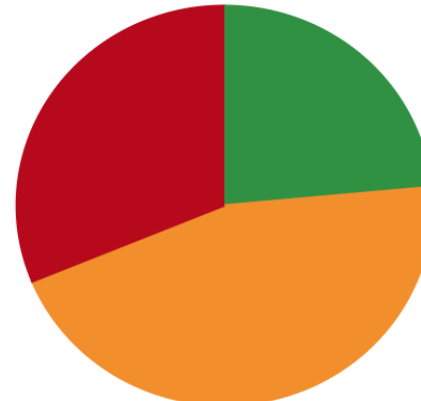


Last update: 31/12/2025



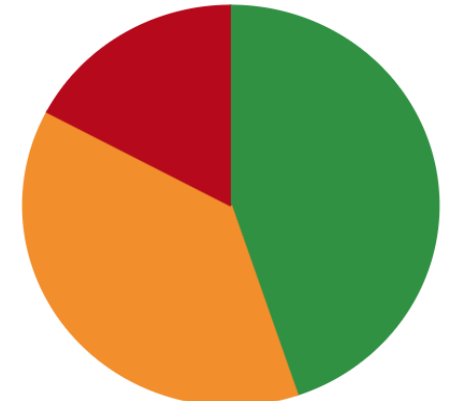
SPAIN

Local breeds



Last update: 31/12/2025

Transboundary breeds



Last update: 31/12/2025

2. LEGAL FRAMEWORK AND RECOMENDATIONS (OUTBREAKS).

INTERNATIONAL LEVEL.



- II Report on the state of the World ´s AnGR for Food And Agriculture, Part 1, Section F: Threats, Disease and disease management.
- Guideliness on ex situ conservation: *“Disease outbreaks may also present an urgent need to collect germplasm from animals”*

EUROPEAN LEVEL.



- **Regulation (EU) 2016/429, ‘Animal Health Law’.**
Article 269 Additional or more stringent measures by Member States.
- **Commission Delegated Regulation 2020/687** as regards rules for the prevention and control of certain listed diseases.
Article 13.2 Competent authority may grant derogation from disease control measures in the event of an outbreak of a category A, for:
c) *animals officially registered in advance as **rare breeds**; and*
d) *animals with a duly justified **high genetic**, cultural or educational **value**.*

2. LEGAL FRAMEWORK AND RECOMENDATIONS (OUTBREAKS).

EUROPEAN LEVEL.



ERP

GUIDELINES FOR THE DEVELOPMENT OF NATIONAL ANIMAL HEALTH REGULATIONS FOR MATERIAL INTENDED TO BE KEPT IN GENE BANKS.

3.5.4 Emergency collections and Annex I Part C:

- A evaluation of needs “case per case”, collections for breeds without a complete collection and totally located in the restricted area of the outbreak.
- A specific derogation should be introduce in the national regulation to allow the emergency collections.
- Alert system to analyze the implementation of stamping-out actions.
- Optimize the collections by the correct selections of donors while maximizing the biodiversity value of emergency collection.
- Enforce biosecurity measures (locations, test on semen samples, records, high security straws,...)
- Requirements for the use material collected in emergency situations.

2. LEGAL FRAMEWORK AND RECOMENDATIONS (OUTBREAKS).

NATIONAL LEVEL.



LAW 8/2003, ANIMAL HEALTH.

Article 20.5 derogation to avoid the stamping out for animal genetic resources endangered, if there is not risk for the environment, animal and human health.

Operational Protocols to face disease outbreaks.

Real Decreto 429/2022 on Germinal Products.

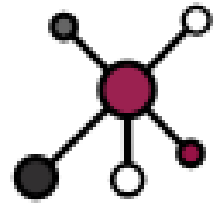
Article 10.1.a) Derogations for material intended to be stored in genebanks:

Procedures to implement the derogation:

- Allow the collection of germinal products in farms affected by an outbreak.
- Risk evaluation by the competent authority.
- On the base of a justification by the genetic advisor of the breeding program on the genetic value of donors.
- Storage of “infected” material in exceptional conditions.



3. NETWORKS

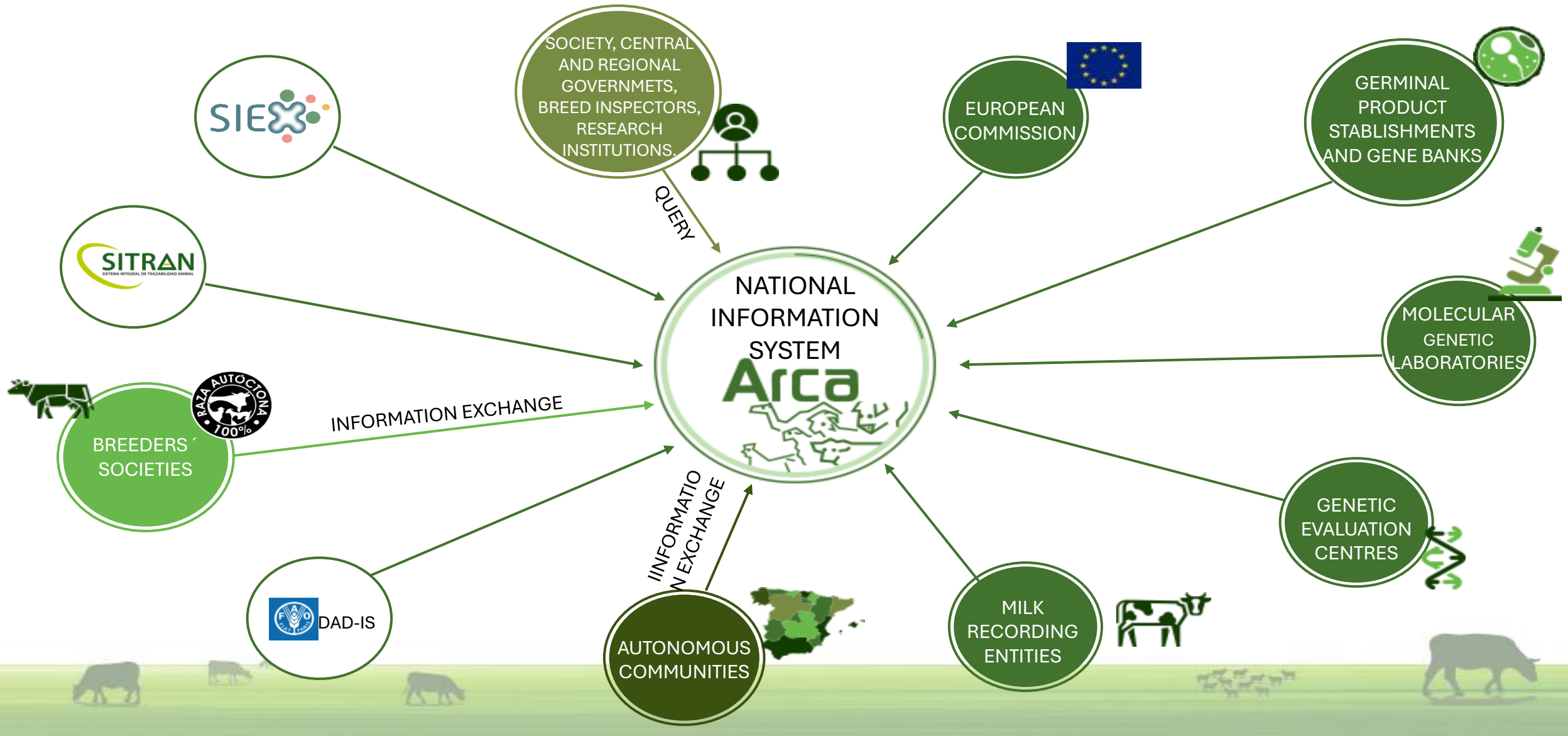


RASVE

- Notification and management of outbreaks.
- Follow up Animal Health Programmes
- Follow up of the epidemiological situation in case of emergencies.
- Communication tools.



3. NETWORKS

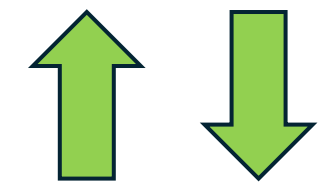


4. COORDINATION BODYS



RASVE COMMITTEE.

NATIONAL ADVISORY COMMITTEE ON ZOOTECHNICS.



4. EXCHANGE OF INFORMATION

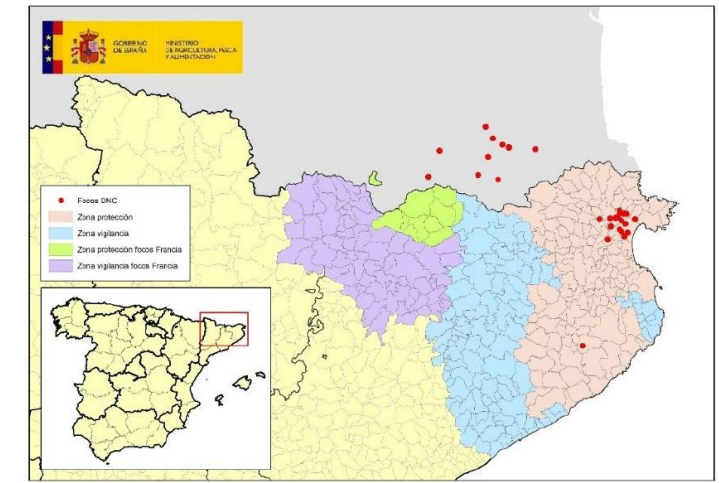
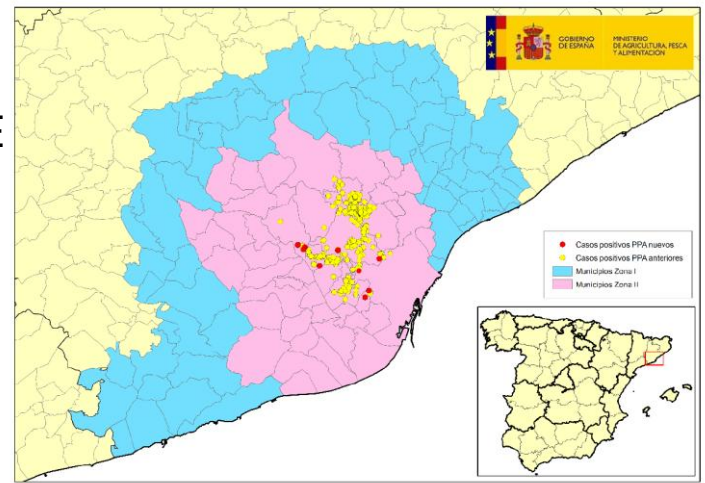


ANIMAL HEALTH COMPETENT AUTHORITIES



ANIMAL BREEDING COMPETENT AUTHORITIES

AFRICAN SWINE FEVER
May 2026



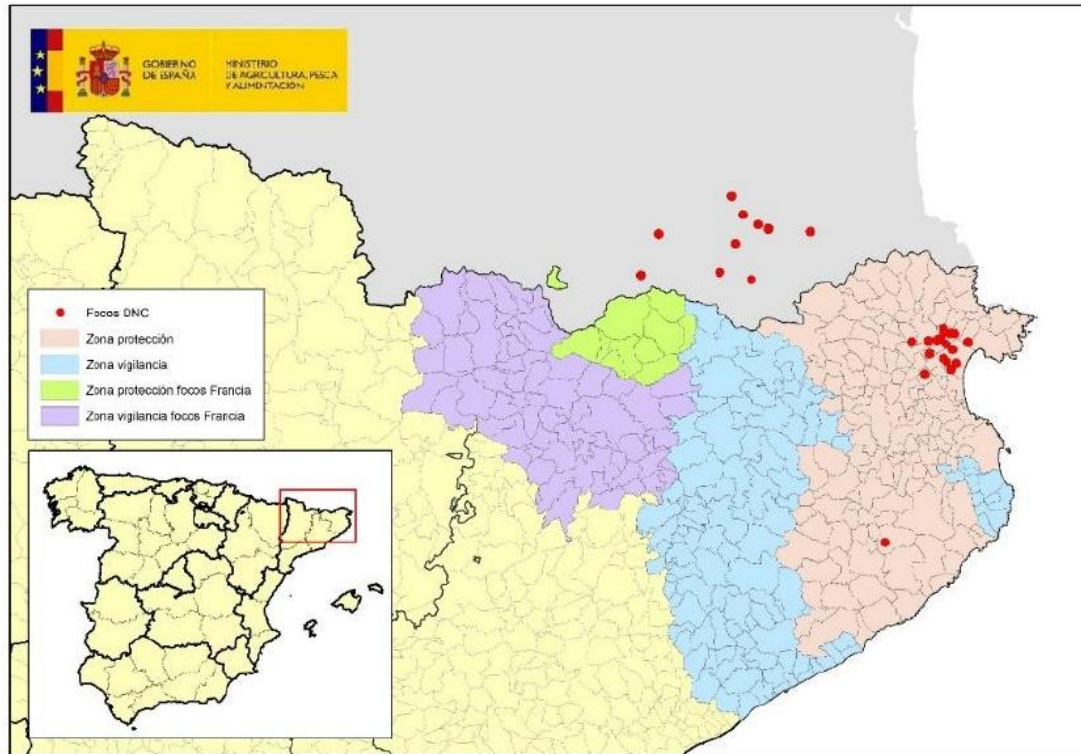
LUMPY SKIN DISEASE
November 2025

5. PRACTICAL CASES



AUTONOMOUS COMMUNITIES HAVE THE EXECUTIVE COMPETENCES

LUMPY SKIN DISEASE (November 2025)



PRIORITY IN THE VACCINATION FOR ALBERA FARMS

5. PRACTICAL CASES



AUTONOMOUS COMMUNITIES HAVE THE EXECUTIVE COMPETENCES

TUBERCULOSIS. October 2021.



Selección: ESPAÑA

1 AÑO, 9,90 € INICIAR SESIÓN



EL PAÍS | 50

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DESPOBLACIÓN RURAL >

Un ganadero lucha por salvar del matadero a casi la mitad de las vacas de una raza endémica de Soria

El joven criador de unos animales en peligro de extinción intenta que no sacrifiquen sus 260 reses por unos casos de tuberculosis en el rebaño



OOCITES COLLECTION IN SLAUGHTERHOUSE FOR EMBRYO PRODUCTION TO GENE BANK (23 EMBRYOS) + COLLECTION IN A STATE FARM (10 EMBRYOS).

6. CONCLUSIONS.

THE FIRST PRIORITY TO FACE AN EMERGENCY FOR ANIMAL GENETIC RESOURCES IS DEVELOPED A **COMPLETE COLLECTION** OF GERMINAL PRODUCTS STORED IN GENE BANKS AND DUPLICATED IN OTHER LOCATION.

INTERNATIONAL RECOMENDATION ACKNOW THE **IMPACT OF DISEASE AND DISEASE MANAGEMENT MEASURES** ON LIVESTOCK POPULATIONS.

EUROPEAN AND NATIONAL REGULATIONS SET **SPECIFIC DEROGATIONS FOR ANIMAL GENETICS RESOURCES** IN CASE OF IMPLEMENT DISEASE CONTROL MEASURES (SUCHA AS STAMPING OUT).

THE COLLECTION OF MATERIAL FOR GENE BANKS IN CASE OF AN OUTBREAK SHOULD CARRY ON ONLY IN CASE **NOT ANY OTHER ALTERNATIVE IS AVAILABLE** AND THE NUMBER OF OPERATION SHOULD BE THE MINIMUM TO GET THE **MAXIMUM DIVERSITY**.

NATIONAL REGULATION SHOULD SET THE **REQUIREMENTS FOR THE COLLECTION OF THE MATERIAL** IN CASE OF OUTBREAKS AND FOR **THEIR USE**.

DATABASES ON ANIMAL HEALTH AND ANIMAL BREEDING ARE ESSENTIALS TOOLS, AS THE **COOPERATION AND COORDINATION** BETWEEN COMPETENT AUTHORITIES IN THESE FIELDS.

FINALLY, **PROTECTION OF ANIMAL AND HUMAN HEALTH MUST BE THE FIRST OBJECTIVE....**

THANK YOU



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