

European Regional Focal Point for Animal Genetic Resources

Regional platform for the support of management, conservation and sustainable use of animal genetic resources

ERFP Ad Hoc Action « Transboundary Breeds »



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How managing transboundary breeds? Precepts

- · Conservation of Biodiversity CBD 1992
- A particular part of the biodiversity can be shared by several countries
- National Sovereignity
- Europe « hot spot » for Animal Genetic Resources





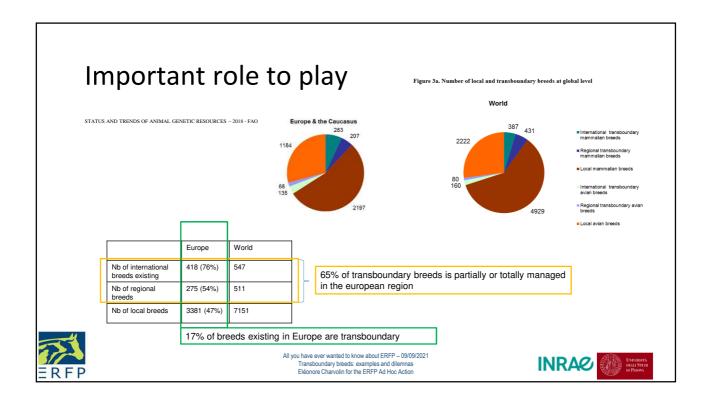
Definition (FAO 2015)

Transboundary breeds: breeds that occur in more than one country. These are further differentiated as:

- Regional transboundary breeds: transboundary breeds that occur only in one of the seven SoW-AnGR regions.
- International transboundary breeds: transboundary breeds that occur in more than one region.



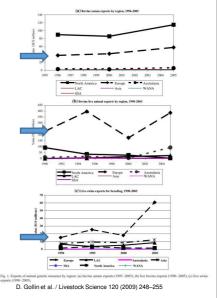




Europe – a Hot spot for AnGR

- · Based on DAD IS
- · Half of local breeds reproted in DAD IS are in Europe
- Half of regional and international transboundary breeds are in Europe
- Lot of exports from Europe

Big responsability for European region to take care about the Transboundary breeds





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Background

- The conservation of the AnGR is organized mostly around the native breeds, moreover when they are local (present only in their country of origin).
- Transboundary breeds: fragmentation of the population because of the different management measures over each subpopulation in the different country, which makes difficult the optimal conservation of the breed.





Aims of the ERFP Ad Hoc Action on Transboundary breeds

- · The general aim:
 - to strengthen the coordination between countries (not only EU Member States)
 - and breeders societies for the conservation and sustainable management of transboundary breeds
- The questions also raised during the Dialogue Forum of the IMAGE project and GenRes Bridge project.
- Result: pathways to develop a common management of the endangered transboundary breeds by developing respective ERFP guidelines.



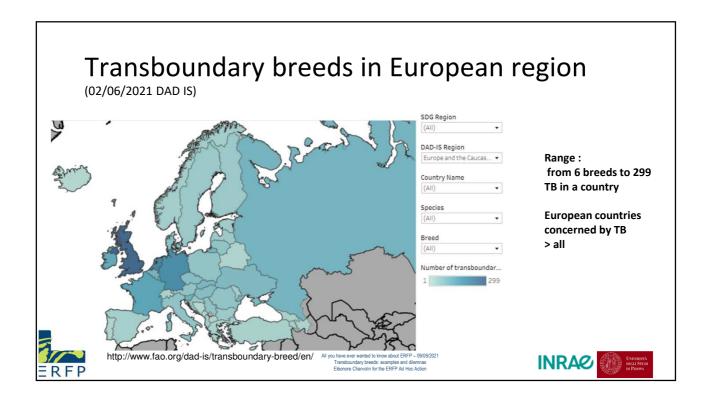
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Material and methods

- Members of the ERFP Ad hoc action team are members of the three ERFP WGs and breeding societies experts (which are familiar with the issue of transboundary breeds)
- online meetings to work at two levels:
 - Analysis of available data for transboundary breeds on DAD-IS/EFABIS, identification of gaps and common errors of classification
 - Identification of cases: different species and different geographical areas discussed in order to highlight different AnGR management that would require sharing of knowledge between different countries, but also highlighting actions that could be undertaken by a set of countries.





Transboundary breeds in DADIS/EFABIS (Europe)

Number of different breeds							
	Exotic	Local Adapted	Locally adapted	Native (Not Characteri sed	Total	
International	735	14	162	225	942	2078	
Local	531	47	171	1383	1656	3788	
Regional	164	12	34	151	327	688	
Total	1430	73	367	1759	2925	6554	





Transboundary breed in Europe: situation per species

	local	international	regional
cattle	493	550	57
chicken	869	275	100
goat	226	118	32
horse	457	351	94
pig	252	180	28
sheep	706	349	198



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Transboundary breeds in DAD IS/EFABIS

- "group of breeds"/"common ancestry"
- Different problems identified in DAD IS = Different responsibility identified
- > FAO: problems took into account after our discussion
- ➤ Ad Hoc Action for WG Doc and Info > ½ country already contacted individually; Work to continue



Grid of analysis of case studies - categories

- Name of the breed/ Countries / Borders
- How it is described in DAD IS (geographical classification of each population, transboundary name, risk status in the countries)
- Type of management(s) within countries, between countries, conservation programs, transboundary organisations and cooperation already existing,
- Genetic description of the populations and scientific references
- Market / non market services (ecosystem services)? and Cultural and other value
 : Highlight in example



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List of 18 case studies, or more

Name of the breed	Countries
Posavje Horse	Slovenia, Croatia
Istrian Pramenka	Slovenia, Croatia, Italy
Istrian Cattle	Slovenia, Croatia
Bovec Sheep	Slovenia, Austria, Germany
Jezersko Solcava sheep	Slovenia, Austria
Trakhener horses	Germany, Lithuania, Russia, Poland, Bulgaria
Hucul horses	Poland, Austria, Ukraine, Slovakia, Czech Republic, Hungary, Romania
Brown Carpathian Cattle	
Whiteheaded Ukrainian	
Lebedyn cattle	

Name of the breed	Countries
Manech (France)/Latxa (Spain)	France/Spain
Brigasque (Sheep)	France/Italy
Bleue Nord Cattle	France/Belgium
Dutch Draught Horse	
Salers Cattle	
Red Dairy Breeds	
Podolic cattle breeds (Podolic group of breeds)	Albania, Austria, Bulgaria, Croatia, Greece, Hungary, Italy, Romania, Serbia, Slovakia, Turkey, Ukraine
Busa Cattle	Albania, Bosnia and Erzegovina, Northern Macedonia, Montenegro, Serbia





Example of interaction between database and in situ expertise - questions Breed at risk at country and regional One country without population data Are there some other countries? What is the management in each country? Is it possible to think together? How encourage cooperation? Are there some ex situ conservation in the different countries? External circle: breed at risk at regional level Internal circle: breed at risk at country level, in the 2 countries which report data Error : Country responsability All you have ever wanted to know about ERFP - 09/09/2021 Transboundary breeds: examples and dilemnas Eléonore Charvolin for the ERFP Ad Hoc Action INRAO

Conclusion and next steps

- Transboundary breeds need to be clearly defined and correctly recorded in DAD-IS / EFABIS
- The case studies can be used to propose ERFP guidelines for a common management of the transboundary breeds respecting National sovereignty

Next steps

- Contact countries linked with our cases studies to elaborate a good analysis
 - Different level of exchanges between countries: OK / OK but / the breed we have is not the international (even if there are some exchange of material)
- Analyse the gaps in term of examples: other cases studies
- Enhancing the implementation of data in DAD IS/ Transboundary breeds > contact with each country

ERFP guidelines: a specific physical workshop will be organised in spring 2022



