

#### **ERFP Joint Working Groups Annual Meeting**

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# ERFP TF — Transboundary breeds in Europe and Ex Situ Conservation

ERFP Task Force « Transboundary Breeds »

E. Charvolin Lemaire, E. Sturaro, D. Bojkovski, C. Ligda, D. Tsiokos, E. Sosin, G. Polak, S. Stojanovic, F. Tejerina

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- · Overview of the work done
- Article submitted to GenRes Journal (is under review) is about what countries declared, but not on how they describe the conservation programs, In and Ex Situ
- Next steps > Case studies > describe diverse situations
- Discussion





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# Background

- Transboundary breeds in Europe, could be an example for the cooperation between countries on the efficient conservation breeds improve data quality and utilisation of EFABIS through better monitoring of breeds' population
- Final Goal: Make the link between data and in situ (and ex situ) situations
- > What do we have through Eugena and/or in ex situ collection in countries (in ou out of Eugena)

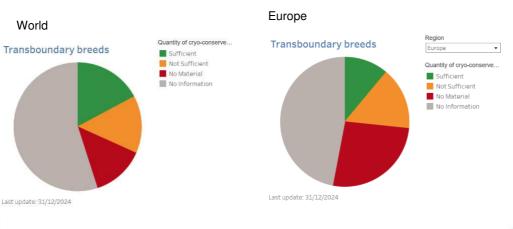




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#### SDG indicator 2.5.1b

Number of local and transboundary breeds for which sufficient genetic materials are stored for reconstitution

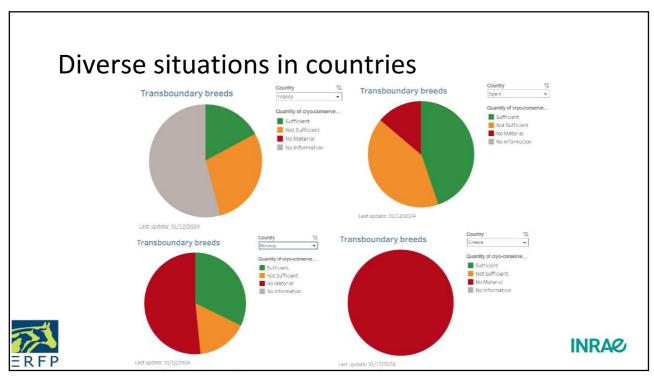


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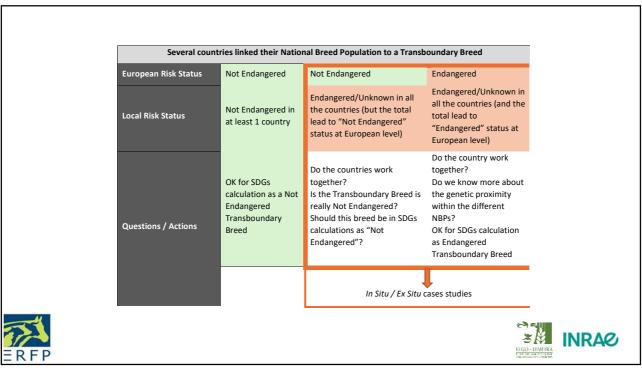
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	Table 4. T	Table 4. Transboundary Breed cases examples							
	Species	Transboundary Breed	Local Breed name	Country	SDG local risk status	adaptedness	regiona risk stal		
	Horse	Hutsul	Hucuł	Poland	at risk	native	at risk		
			Hutsul	Romania	unknown	no info			
			Hucuł	Slovakia	at risk	locally adapted			
			Hucuł	Hungary	at risk	native			
			Huzule	Germany	at risk	exotic			
			Gutsul	Ukraine	at risk	no info			
			Huzule	Austria	at risk	native			
			Huculsky kun	Czechia	at risk	locally adapted			
	Cattle	Podolian	Podolica	Italy	Not at risk	native	Not at r		
			Podolian	Serbia	at risk	locally adapted			
	Sheep	Precoce	Merino Precoz	Spain	at risk	locally adapted	At risk		
		-	Merina Precoce	Portugal	at risk	exotic			
			Mérinos précoce	France	unknown	native			
	sheep	Ouessant	Ouessant	France	at risk	native	Not at r		
			Ouessant	Belgium	at risk	no info			
			Ouessant	Netherlands	at risk	exotic			
A)			Ouessant Schaf	Germany	at risk	exotic			
			Kesantská ovce	Czechia	at risk	exotic		2	IN
			Ouessant	Denmark	at risk	no info		ELGO - DIMETRA	114

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	•	ngered or Unknown at European	,	
n blue T		n level but Endangered or Unkno	,	
	remaining are not endanger	ed at European level, and in at le	east one country)	
Specie	By 1 country	By more 2 or 3 countries	By 4 and more countries	
	Azerbaijan Zebu (AZ)	Armorican (FR, UK)	Angeln (BE, LT, UA, UK)	
	Buša (AL)	Belgian Blue mixte (NL, BE)	Bazadais (BE, FR, IE, UK)	
	Dahomey (NL)	Breton Black Pied (FR, UK)	Danish Red (DK, LV, LT, RO, UK)	
-	Fries Hollands (BE)	Caucasian (GE, RU, TR)		
-	Glan Donnersberg (NL)	Caucasian Brown (AZ, GE)		
Cattle	Jutland cattle (NL)	Estonian Red (AL, AZ)		
	Mölltaler (AT)	Fighting Bull (PT, ES)		
	Murboden (AT)	Greater Caucasus (AM, RU)		
	Simford (IL)	Groningen White-Headed		
	<u> </u>	(NL, UK)		
	Vache Maraichine (NL)	Heck cattle (NL, FR)		
		Hinterwald (DE, CH)		
		Kostroma (BY, RU)		
		Lebedin (AZ, UA)		
		Podolian (IT, RS)		
		Polish Red (PL, UA)		
		Russian Brown (BY, RU)		
		Whitebacked Cattle (LT, UA)		
	Carpathian Goat (RO)	Azerbaijan (AM, AZ)	Maltese (GR, IT, MT, TR)	
	Coloured Chamois Goat (CH)	Brown Shorthair Goat (CZ, SK)	Valais Blackneck (AT, CZ, DK, DE, CH)	INRAE

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Examp	le : Hutsul		
	нттр		
	Transboundary breed	Hutsul	
	Species	Horse	
	Breed Type	Mammalian	
	Geo Classification	regional	
	Number of countries reporting the breed	8	
	Number of countries reporting population data	7	
	Estimated Population Size	4795	
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- What is the situation per Transboundary population? How many country has sufficient material? A region level do we have enough material? Is it
- Which case studies we should take to show different situations and help building guidelines?
- How improve management of TB?



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# Summing up

- Inconsistencies, (i.e. TBs linked to only one NBP) open the discussion on the **definitions of TBs** and the applied **criteria to link a NBP to a TB**.
  - Under which conditions, would be feasible to establish unified criteria, including historical data and genetic information?
- Gaps in data / problems : different names? Same names? are they all linked to "transboundary breed list name"?
- Environmental context: How many populations have a geographical description/adaptability to specific environment in DAD IS? In one or each country?
- Advances in genomics and the progress of relevant research could further enrich existing knowledge on Transboundary Breeds and support their sustainable management
- TBs cannot be examined exclusively through demographic data and genetic information. Several technical, social and political aspects shape the future management opportunities.





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### Summing up

- Focus Regional Transboundary breeds
- Specific case could be developed around small populations that are International but Native/Locally adapted from a European country.
  - The case study approach is recommended: *in situ* and *ex situ* cases of breeds that have common breeding programs or frequent exchange of breeding animals, either cases of breeds with common history, or raised in similar environments, but have no common activities yet.
- Specific breed cases could be also considered in connection with other relevant development initiatives, as could be the case of mountain TBs.
- This discussion is in accordance with the recommendations of the AnGR Strategy in Europe
  - promotes the in situ and ex situ strategies of TBs, specific actions are foreseen to improve the knowledge
    on TBs, support the exchange between actors involved in the conservation and breeding programmes of
    these breeds and promote cooperation on this field (ERFP, 2021).





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#### Discussion

- · Define case studies
- · Setting up groups to work on specific cases
- Work on definitions / improve data recording





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