Rustic breeds
in the European mountains
An opportunity for descriptions in DAD IS/EFABIS

ERFP, WG Documentation and information, Padova, May 2018

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INTRODUCTION

Beginning of the story: breeder associations ask directly, asking for using international database on Animal Genetic Resources

>to the presentation (2017)
What has been done?

- Answering to the group of associations of breeders of Mountain breeds in France (CORAM): Which are the breeds in Europe that are in the same state of development as their breeds =
  - local/European (link with transboundary)
  - “rustical” (??)
  - breeds of cattle (mainly)
  - already well developed,
  - with a good “economical health”

- Asking to the NCs which of their breeds could fit to these criteria > list of breeds. Not the complete list because some are not considering the exotic breeds and/or the transboundary breeds. The criteria:
  - territory = mountains, piedmont, etc
  - development of particular products,
  - also used for maintenance of the territories.

- Defining some proxy:
  - Don’t take transboundary breeds which are not native from a European country
  - already well developed ⇔ Not endangered
  - good economical development ⇔ nb of breeding female (or total population) is increasing

- 2 countries where invited > development of examples coming from Spain and Italy
## What do we have? (1/3)

Answers for specific cases from: Austria, Spain, Croatia, Poland, Italy, Montenegro.

<table>
<thead>
<tr>
<th>Tyrolean Grey cattle</th>
<th>Austria</th>
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<tbody>
<tr>
<td>Pirenaica</td>
<td>Espagne</td>
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<tr>
<td>Parda de Montaña</td>
<td>Espagne</td>
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<tr>
<td>Albera</td>
<td>Espagne</td>
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<tr>
<td>Asturiana de la Montaña</td>
<td>Espagne</td>
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<td>Bruna de los Pirineos</td>
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<td>Caldelá</td>
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<td>Monchina</td>
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<td>Negra Andaluza</td>
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<td>Pajuna</td>
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<td>Pasiega</td>
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<td>Sayaguesa</td>
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<td>Teruel Serrana</td>
<td>Espagne</td>
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<td>Serrana Negra</td>
<td>Espagne</td>
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<td>Terreña</td>
<td>Espagne</td>
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<td>Tudanca</td>
<td>Espagne</td>
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<td>Vianesa</td>
<td>Espagne</td>
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<td>Busha</td>
<td>Croatie</td>
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<tr>
<td>Istrian cattle</td>
<td>Pologne</td>
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<tr>
<td>polska czerewona</td>
<td>Pologne</td>
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<tr>
<td>-biała - Polish red and white</td>
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<tr>
<td>cakiel podhalański</td>
<td>Pologne</td>
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<td>- Podhale Zackel</td>
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<tr>
<td>Alpine Grey</td>
<td>Italie</td>
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<td>Valdostana</td>
<td>Italie</td>
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<tr>
<td>Rendena</td>
<td>Italie</td>
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<tr>
<td>Pivska pramneka</td>
<td>Montenegro</td>
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<tr>
<td>Sora</td>
<td>Montenegro</td>
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<tr>
<td>Bardoka</td>
<td>Montenegro</td>
</tr>
</tbody>
</table>
What do we have? (2/3)

- Production of two maps with “what can we find in EFABIS on your emblematic breeds and where are they, and how many cows are there?” (Aubrac and Salers) > surprise, and interest.

- An other map on localisation of the breeds reported by countries
The new DAD IS

Hope for:
Harmonization
Clarification
Usefullness
What do we want to do?

From Belgrade 2017 and Tallinn 2017

Do we / How can we continue?

- **Interests** for data providers, and for EFABIS/DAD IS (=for countries):
  - Lot of interest of data providers **IF the database is useful**
  - A lot of information already in EFABIS
  - Difficulty to extract information when you have an objective
  - Waiting for the possibility to request the database on multi descriptors approach

- **After this work**: Interest in finishing this big work of « mountain breeds in Europe » to
  - Propose a work to harmonise some fields through drop-down menus or other way in place of text fields, or add to text fields, or translate through text fields
  - Have some recommendations for description of Environmental Descriptors (and use the work already done before, for example PEDs), linked to Ad Hoc Action Socio Economic Parameters and to the work on transboundary breeds (which breeds are transboundary? Are there some genetic exchange in population that are NOT described as transboundary etc)
  - **very ambitious > Why not finish with a book « Mountain breeds in Europe »!! (more than 1 year)
From the Proposal (August 2017):

It is therefore necessary, in the course of an in-depth study of the EFABIS / DAD IS database to

1. **analyse which breeds are described in mountain areas. This work will promote the implementation of the database specified by the countries.**
2. **propose a standardized system of description of breeds existing in mountain areas and promote the use of EFABIS / DAD IS. This should help support the development of an exchange network on mountain races.**

A typography of mountain areas based on work already carried out (eg by the EU) should therefore be proposed.
Proposal of Work

1- Continue the work begun during the preliminary study
   a. Extension of the field (e.g., not only breeds with economic yield)
   b. Definition of selection criteria and proxies used (with pre-existing words in EFABIS)
   c. Suggest a list of keywords to search in EFABIS, or if possible to do an automatic search on the text fields
   d. Exchange with national coordinators who had already provided a list of breeds during the survey by mail (August 2016)
      + extend to have breeds with small numbers (out of scope in the preliminary study)
   e. Some of the mountain breeds are also transboundary - Define the main characteristics of the transboundary mountain breeds (i.e., exchange of genetic material, common breeding program, same or different production environment)
      Exchange with stakeholders in order to understand their needs and expectations from EFABIS

2- Propose a harmonized / standardized system to describe the breeds and their distribution
   a. Agree on the definitions (what is meant by mountain, piedmont etc). Link this with existing EU regulations (e.g., mountain areas) and the work done in PEDs. Exchange with stakeholders on existing definitions.
   b. Analyse the feasibility of transforming texts for localization in drop-down menus, or suggestions of keywords.
   c. In line with the philosophy already proposed in the ad hoc action socio-economic parameter, incite to describe the percentage of animals in mountain areas or not (distribution, dispersion of the breed)
   d. Opening the discussion on any other specific areas

Outcomes

1. Report with specific recommendations to incorporate in EFABIS / DAD –IS (relevant with data fields, queries, reports)
2. Report on selected transboundary mountain breed cases
3. Booklet on mountain breeds in Europe (decide on the content after one year, depending on the progress of the work)
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Conditions for work

To manage with « what is possible » in DAD IS (possibility of changes / other countries/regions)

To manage with the acceptance/refusal of H2020

Last but not least : interest of some people from our WG Doc and Info + stakeholders