

European Strategy for Animal Genetic Resources

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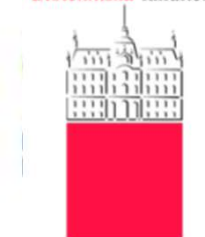
University of Ljubljana



ERFP

European Regional Focal Point
for Animal Genetic Resources

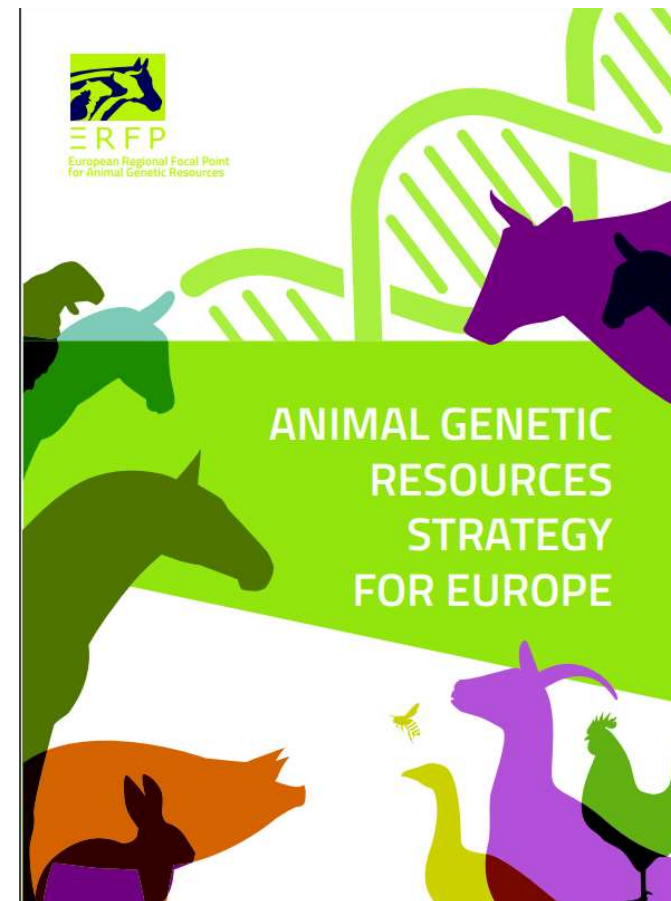
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CONTENT

- **Need for developing Animal genetic resources strategy for Europe**
- **Background**
- **Strategy**
- **Priorities for AnGR**





Why we need Strategy?

Global vs. EU policies/commitments



AnGR Strategy: the necessary bridge between F2F and Biodiversity strategies
Looking for Agriculture & environment policies connection



Background

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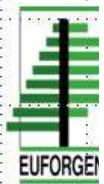
TOPIC : Genetic resources and pre-breeding communities

Topic identifier:	SFS-28-2018-2019-2020		
Publication date:	27 October 2017		
Types of action:	RIA Research and Innovation action		
DeadlineModel:	two-stage	Deadline:	23 January 2019 17:00:00
Opening date:	16 October 2018	2nd stage Deadline:	04 September 2019 17:00:00
Types of action:	CSA Coordination and support action		
DeadlineModel:	single-stage	Deadline:	13 February 2018 17:00:00
Opening date:	31 October 2017		

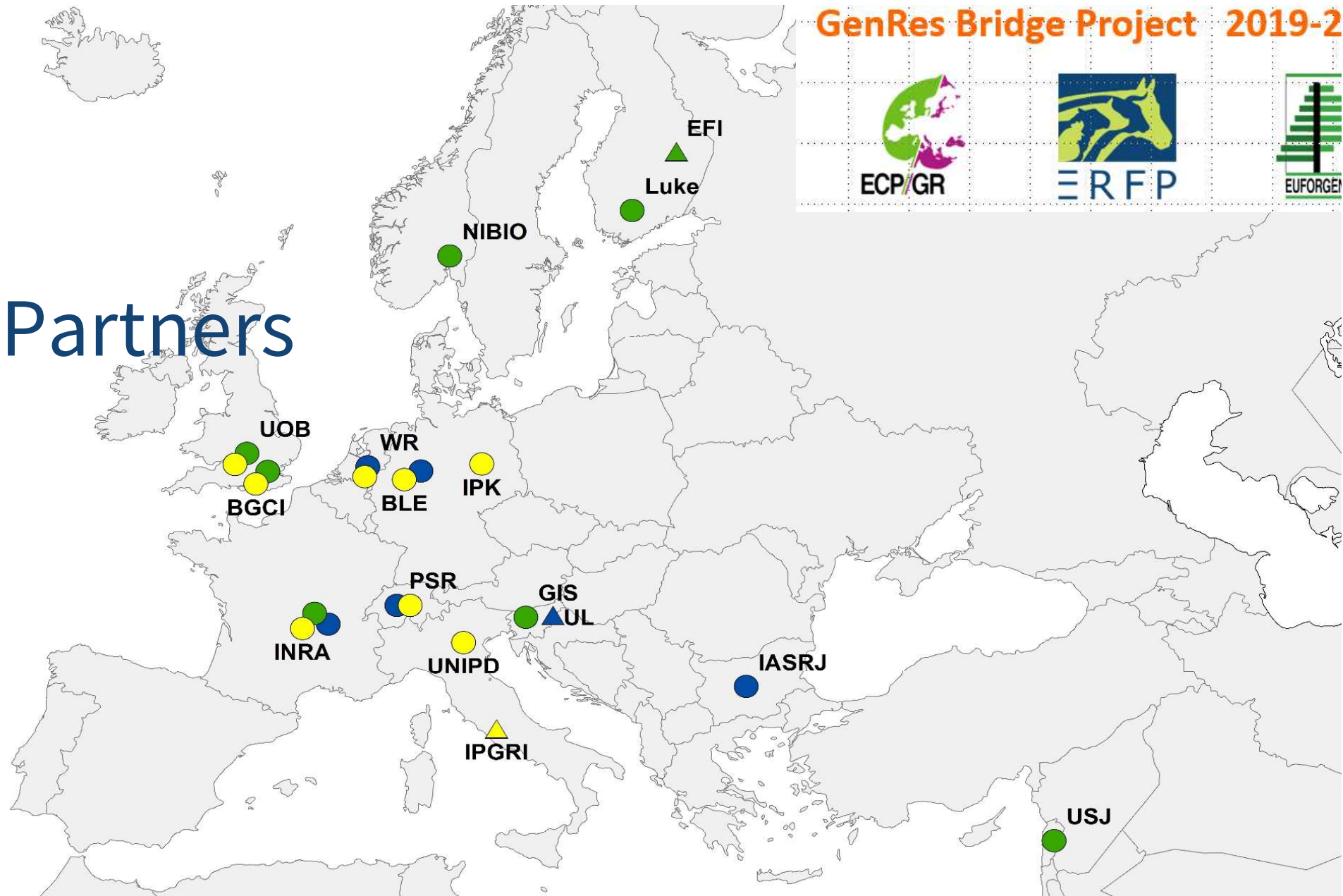
Time Zone : (Brussels time)

A. [2018]: Joining forces for GenRes and biodiversity management (CSA)

Activities will provide a framework in which the existing mosaic of European, national/regional structures can join forces to develop and implement ambitious approaches and strategies for the management of crop, forest and animal GenRes. In addition to advancing individual roadmaps, inventories and information tools for crop, forest and animal GenRes, cooperation between the different communities shall foster GenRes conservation within a wider (agro) biodiversity context. Particular care shall be taken to building and widening capacities across Europe and neighbouring countries (including Mediterranean countries), exchanging best practices, harmonising standards as well as sharing resources and data.



Partners



- PGR project partner
- FGR project partner
- AnGR project partner
- ▲ ECPGR Secretariat
- ▲ EUFORGEN Secretariat
- ▲ ERFP Secretariat

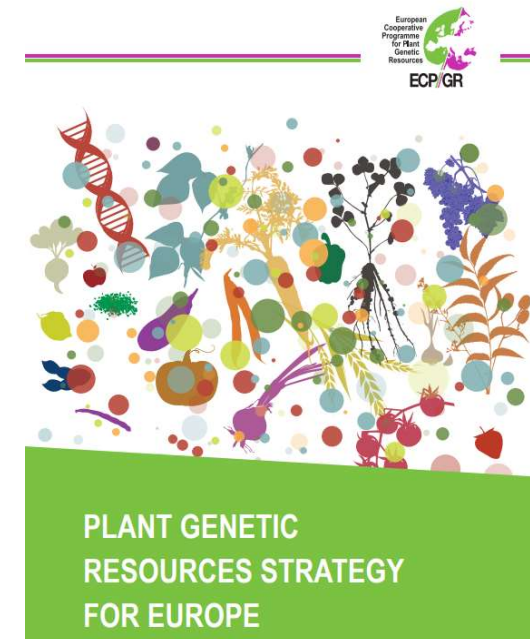
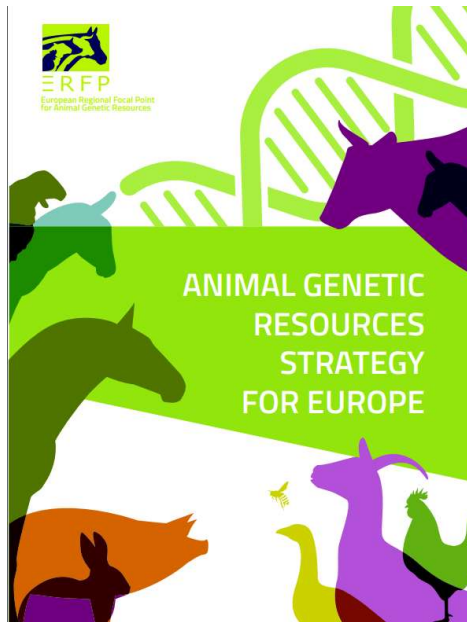


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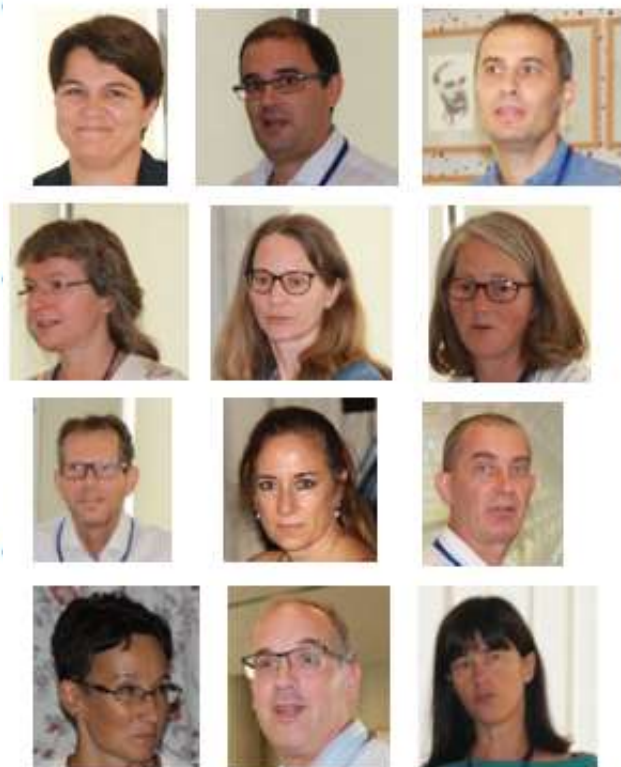
www.animalgeneticresources.net

Output of the project

Project funded



Animal Genetic Resources Strategy for Europe



Acknowledgments:

Members of the ERFP Ad hoc action group:

Danijela Bojkovski, Chair, Slovenia
 Fernando Tejerina, Spain
 Enrico Sturaro, Italy
 Nina Svartedal, Norway

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Key elements

- **Conservation and utilization** is the main strategy
- Focus on **sustainable breeding programs**, managed by breed societies
- Balance **conservation and utilization** of genetic diversity
- **Diverse breeding strategies**
- **Common goals and values**
- **Enabling values in a**
- **Shared responsibility**
- **Public – private partnerships**
- **Better coordination** of relevant policies and sustainable use of AnGR in existing policies

BREEDERS AND FARMERS ARE THE MAIN ACTORS FOR (IMPLEMENTING THE) ANGR STRATEGY

PRIVATE-PUBLIC PARTNERSHIPS TO BE FURTHER DEVELOPED TO REACH THE GOALS

Structure and content



The need for urgent action

context

importance

rationale



Conservation /sustainable use

improvement of breed
monitoring

better understanding of
breed characteristics

sustainable use
(breeding programmes)

integrated *in situ* and *ex situ* conservation



Policies, institutions, capacity building

need for coordinated
policy development

involvement of all
actors

funding

cooperation and
coordination

education and
awareness

Chapter 1: Need for urgent action

FACTS



Majority of local breeds is “at risk” based on population size: some of them have unique characteristics

Effective population (N_e) is often low not only for local but also for mainstream breeds

Existing threats on AnGR that must be identified and combated.

The role of livestock diversity is important to facilitate the adaptation of production systems to society demands and face future challenges.

Reasons for urgent action

- Second half of the 20th century - **huge development** of EU livestock sector
- Great success - **breeding programs** and tremendous **increase in livestock production efficiency**
- **Success have a price**
- **Many local breeds have been replaced** by a few specialized, highly productive transboundary breeds.
- Challenge - **low within-breed genetic diversity and inbreeding.**

THIS DEVELOPMENT POSES A MAJOR THREAT TO THE GENETIC DIVERSITY WITHIN THE LIVESTOCK SECTOR



Chapter 2: Conservation and sustainable use of AnGR



2. Conservation and sustainable use

2.1. Monitoring, characterization, performance recording

Breed inventories, tools DAD-is, EFABIS, EUGENA, interoperability, understanding of breed characteristics, comparative analysis of performance and lack of research for phenotypic characteristics or breed performance, sustainable breeding programme.

2.2. Sustainable use and genetic improvement of AnGR

Conservation by (sustainable) utilization, safeguarding genetic diversity, effective breeding programme to support climate change adaptation, sustainable use of mainstream transboundary breeds.

2.3. Conservation of AnGR

Highlight the role of integrated *in situ* and *ex situ* conservation, prioritisation, valuation of breed and costs of breed conservation, well designed breeding programme, financing, improving knowledge on conservation/EUGENA

Example of Key recommendation for AnGR conservation (1)

Develop sustainable breeding programmes.

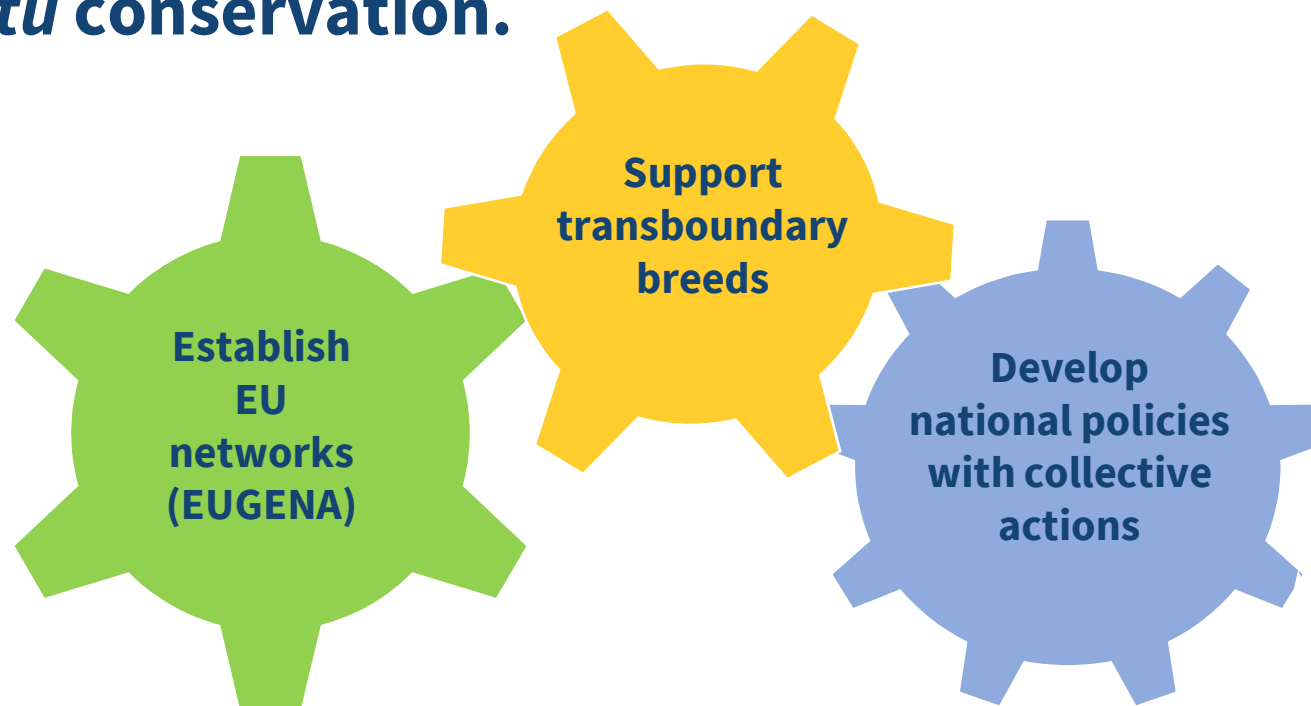
Technical solutions:

- Sustaining specific research and effective participatory approach.
- Implement agro ecological principles in livestock breeding.
- Strengthen management capacities: role of farmer/breed societies.
- Stimulate innovations and develop emerging biotechnologies for sustainable breeding and conservation programs.

Example of Key recommendation for AnGR conservation (2)

Develop strategies and action plans for integrated *ex situ* and *in situ* conservation.

Technical solutions:



Chapter 3:

Polices, institutions and capacity building



3. Policies, institutions and capacity building

3.1. Policy and legal framework

Review of existing policies, better coordination of policy areas, integration of existing policies is needed, opportunities for financing, EU Reference centre.

3.2. Actors, stakeholders and institutions

Important role of breeders and farmers, further development of private-public partnerships, ERFP as key actor, collaboration and strengthen the institutional and human capacities.

3.3. Education and awareness raising

Increase awareness, education (roles, values) of AnGR for society, ecosystems, livestock sector.

3.4. Long term funding of the strategy

Main challenges and priorities for AnGR network



Work not done yet

How to achieve goals? Key recommendations?



GOAL

**AnGR Strategy for Europe
approved by NC**

Thank you for your attention!



https://www.animalgeneticresources.net/wp-content/uploads/2022/03/Final_AnGR-Strategy-_022022.pdf