

D A G E N E

Dunamenti Állatfajták-Génmegőrző Nemzetközi Egyesülete
International Association for the Conservation of Animal Breeds
in the Danubian Region (1400 Budapest, PO Box 2, Hungary)



Hrvatska agencija za
poljoprivredu i hranu



GENE BANK FOR ANIMAL GENETIC RESOURCES IN THE REPUBLIC OF CROATIA

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32nd Annual Meeting of the International Association for the Conservation of Animal Breeds in the Danube Region (DAGENE)

:: 23-24 March 2023 :: Bábolna

Gene bank – history

**„National Program
for the preservation
of local and
protected breeds of
domestic animals”**



GB → integral part
of the Service for
Genetic
Evaluation

**National
Program
2021-2025**

2010

2012-
2013

2017

2021



Guidelines includes →
development &
monitoring → *in-situ* and
ex-situ programs

*CAA started collection of the samples of
local breeds*

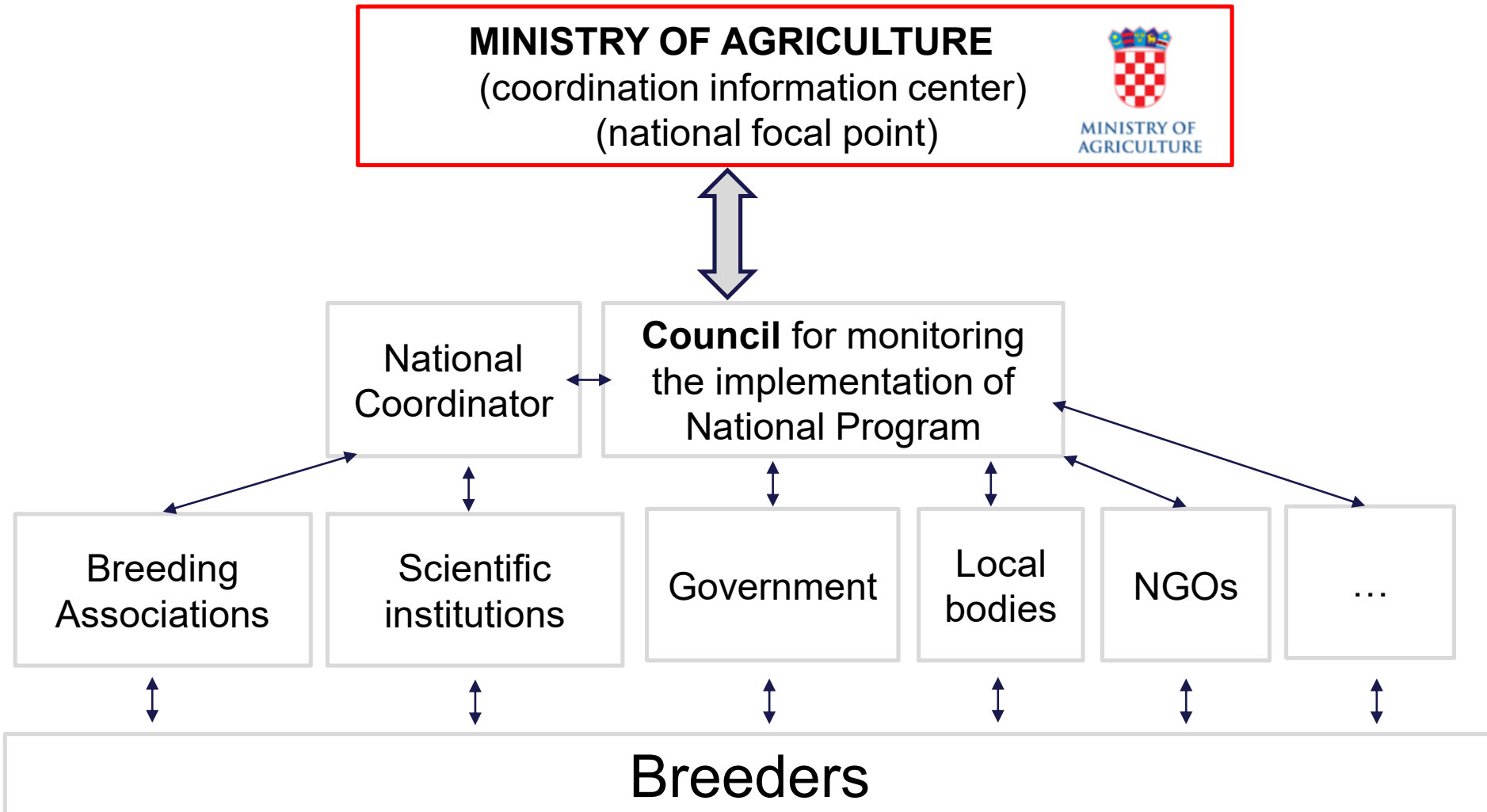
28 native & protected domestic breeds + 7 dogs breeds

<https://bag.mps.hr/hrvatske-izvorne-i-zasticene-pasmine/>

- Cattle
- Horses
- Donkeys
- Sheep
- Goats
- Pigs
- Poultry
(Turkey, Chicken)
- Bees
- Dogs



Gene bank – organisation – National network of GBs



Gene bank – organisation – National network of GBs

National GB



**MINISTRY OF
AGRICULTURE**



4 Recognised GBs

1. *Croatian Agency for Food and Agriculture*



2. *Agency for Rural Development of Istria*



3. *Association of Posavina horse breeders*



4. *Association of Croatian coldbloodhorse breeders*

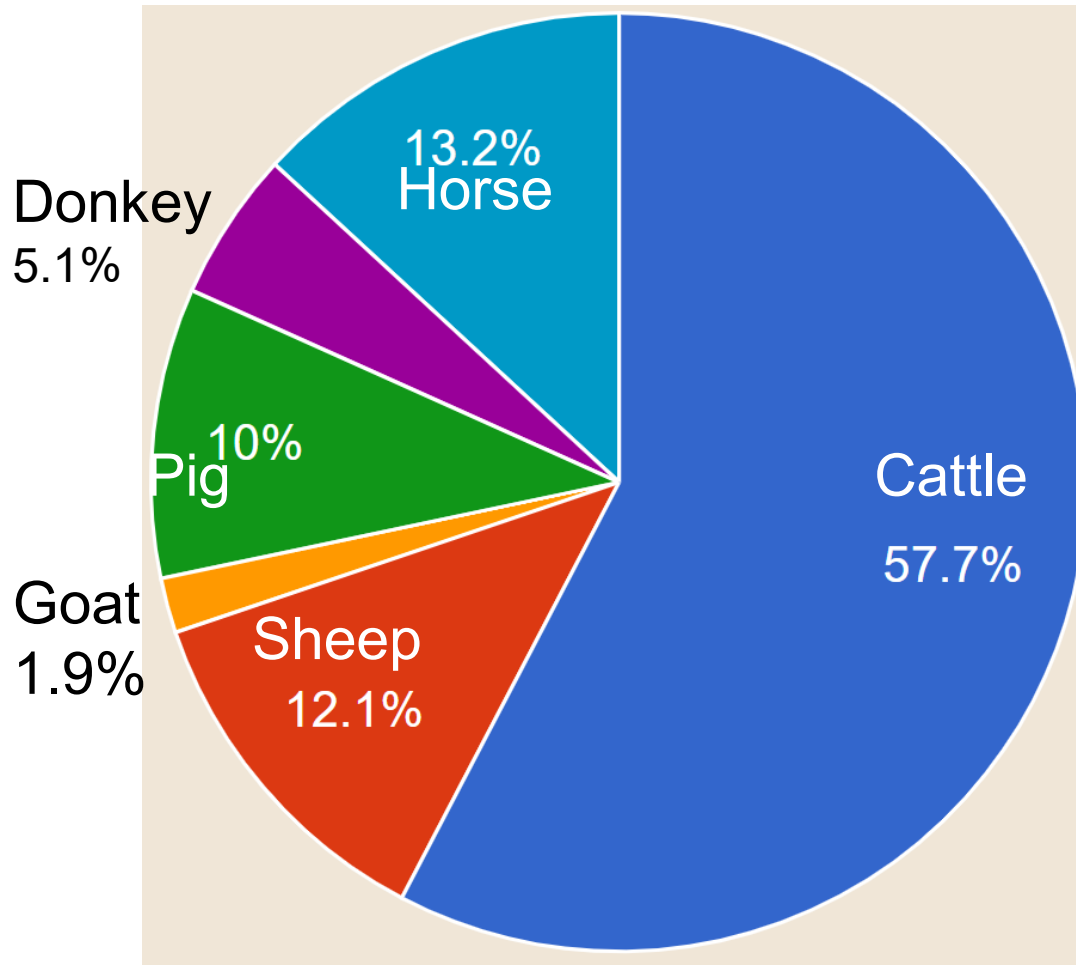


Gene bank – local breeds – samples stored in GBs



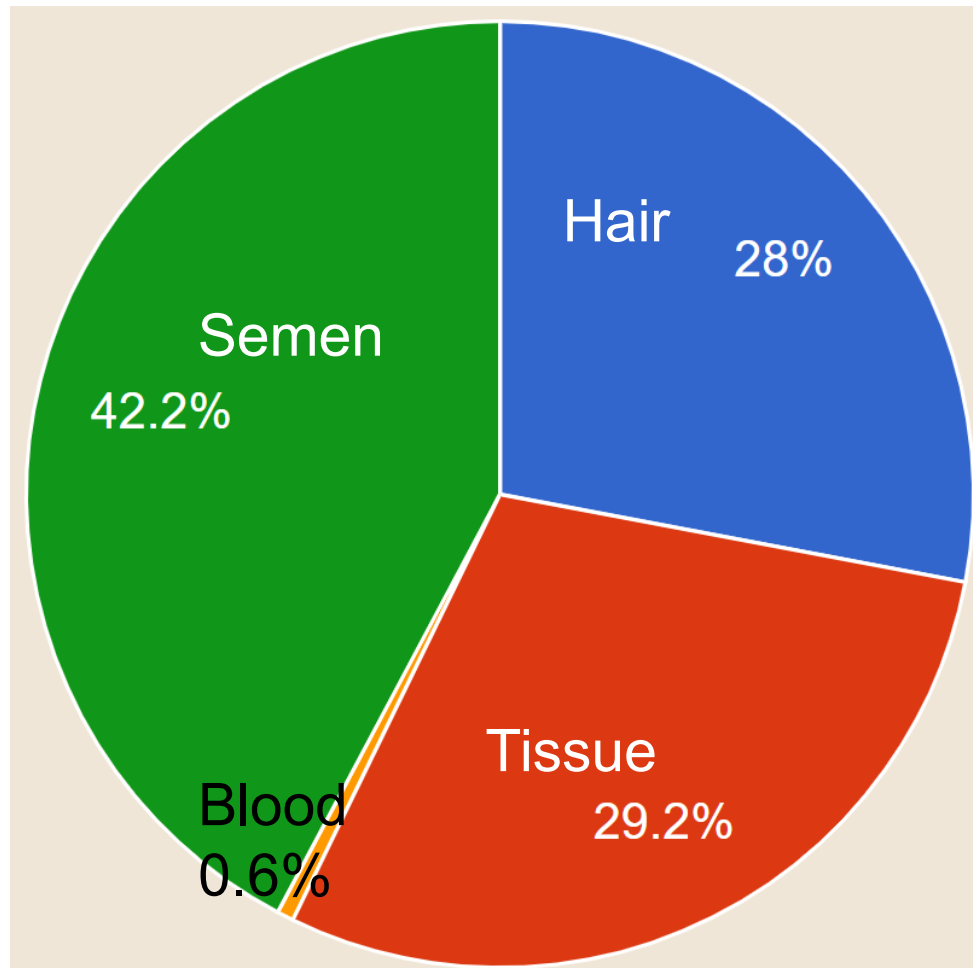
How big is Gene bank?

- More than 32,000 samples → 6 types of domestic animals are stored GB (collaboration OPTI-SHEEP, IP-2019-04-3559)



What is stored?

- Genomska kolekcija (DNA, krv, somatske stanice)
- Germinativna kolekcija (sjeme)



What is new?



- **Reference Expert Network**

- Represents a **community of scientists** whose task is to create a scientific basis for the implementation of the **protection** of original and endangered Croatian breeds
- Aims:
 - to support the **National Program** for conservation of AnGR
 - to enable greater collaboration with stakeholders
 - to provide recommendations on the restoration of breeds (not included in the National Program)

What is new?



- **Reference Expert Network**

- > 50 experts from different fields
- Thematic subgroups:
 - *Valorization of breeding, conservation and action programs*
 - *In-situ conservation programs of local breeds*
 - *Ex-situ conservation programs of local breeds*
 - *Economic use and promotion of local breeds and products from local breeds*
 - *The welfare and legislation of the breeding of local breeds*
 - *Health and reproduction of local breeds*
 - *Preservation of local dog breeds*

Future plans...

- Continuation of monitoring AnGR
 - special attention: endangered one
- Further characterization of breeds (genomic level)
- Implementation of new and improved procedures/metods for the conservation



THANK YOU FOR ATTENTION

This research has been fully supported by Croatian Science Foundation under the projects: Genomic characterization, preservation, and optimum contribution selection of Croatian dairy sheep (OPTI-SHEEP, IP-2019-04-3559) and Genetic, Economic and Social Interactions of Local Breed Conservation Programs (GGD LocBreed, IP-2020-02-4860).

