Protection and development of Hungarian animal breeding traditions at **HáGK**



Szalay István and colleagues

HáGK, Gödöllő, Hungary

Europe

Norwegian

DATU

MORECI





Barents

Brief History of Gödöllő Institutions for Animal Breeding and Research



Hungarian Royal Poultry Breeding Farm (established in 1897)



Hungarian Royal Apiculture Centre (established in 1899)

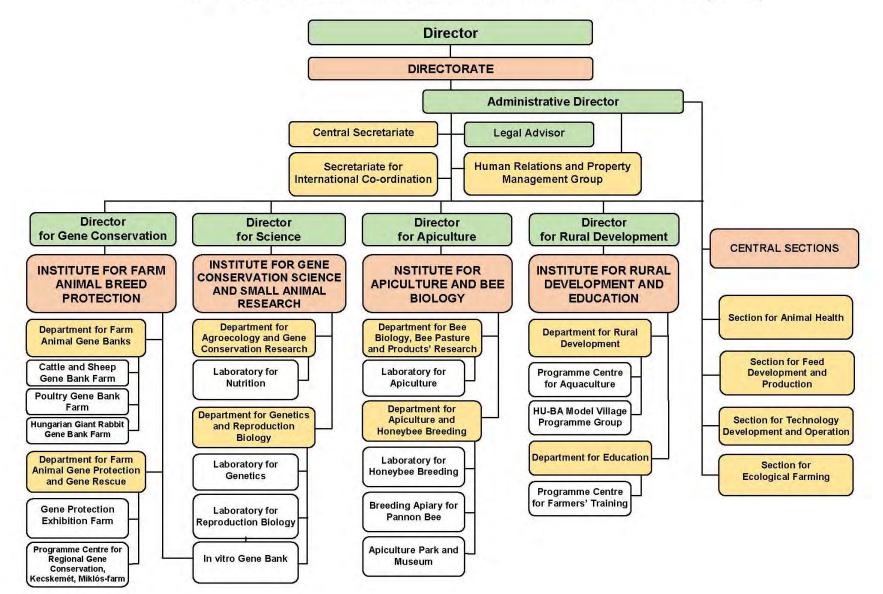


INSTITUTIONS FOR ANIMAL BREEDING AND RESEARCH IN GÖDÖLLŐ

- 1950 Research Institute for Animal Breeding
- 1952 Research Institute for Small Animal Breeding
- 1980 Research Centre for Animal Breeding and Nutrition
- 1992 Institute for Small Animal Research (KÁTKI)
- 2006 Research Institute for Animal Breeding and Nutrition (ÁTK)
- 2010 Istitute for Small Animal Research and Co-ordination Centre for Gene Conservation (KÁTKI)
- 2013 Research Centre for farm Animal Gene Conservation (HáGK)



ORGANISATIONAL STRUCTURE OF THE RESEARCH CENTRE FOR FARM ANIMAL GENE CONSERVATION (HáGK)



HáGK Institutes and their main activities



Institute for Farm Animal Breed Protection

- Conservation of farm animal and native dog breeds, gene protection and gene rescue programmes
- Developing gene conservation methods
- Collecting and maintaining in vivo gene banks of traditional Hungarian farm animals



Institute for Gene Conservation Science and Small Animal Research

- Basic research in molecular genetics and reproduction biology
- Research, development and innovation in small animal breeding, gene conservation and organic farming
- Collecting and maintaining in vitro gene banks
- International co-operations in research and development



Institute for Apiculture and Bee Biology

- Gene conservation and breeding of Pannon bee
- Qualification and production studies of honey and bee products
- Apicultural, bee-biology and bee-health research, development and innovation
- Education and technical training in apiculture and bee-biology



Institute for Rural Development and Education

- Elaboration, co-ordination and implementation of rural development and village programmes, related to breeding and use of local, indigenous breeds
- Preparation, edition and dissemination of information materials for rural programmes
- Education and training in rural development and the use of local, indigenous breeds



Proposals for co-operation with institutions abroad

- PhD courses and technical training
- In vivo and in vitro gene conservation of local breeds
- Animal breeding and conservation research, cooperations in development, adaptation studies
- Co-operation in apiculture and aquaculture
- Trilateral co-operations in Europe and in Asia
- Organisation of professional co-operations with other Hungarian institutions



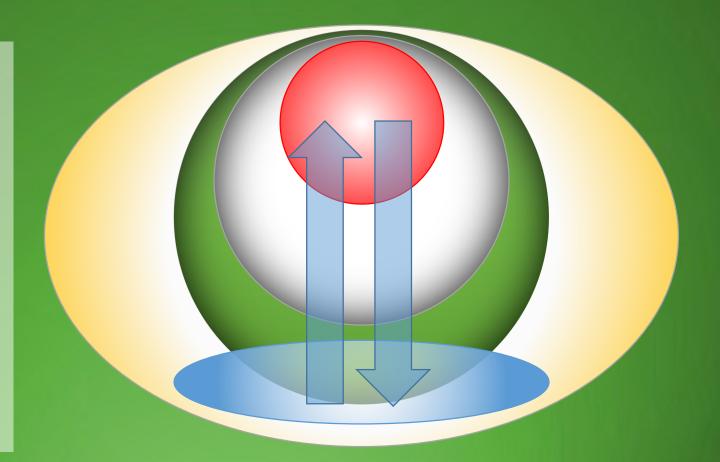
Protection System of Farm Animal Genetic Resources

Gene bank

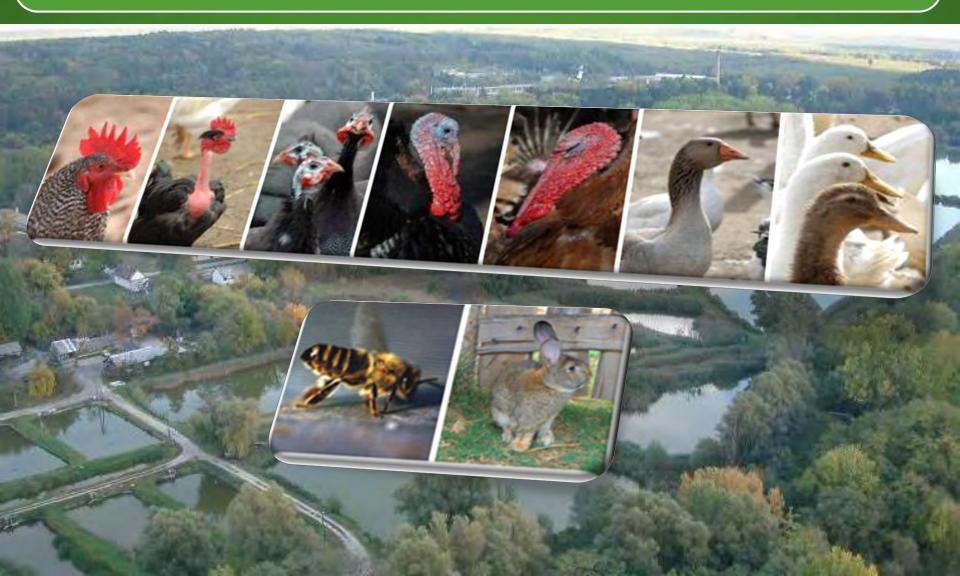
Gene protection

Gene conservation

Gene rescue-Breed rescue



Traditional Hungarian Farm Animal Breeds Conserved by **HáGK: small animal breeds**



Traditional Hungarian Farm Animal Breeds Conserved by **HáGK:** local livestock breeds



Traditional Hungarian Farm Animal Breeds Conserved by **HáGK: local dog breeds**



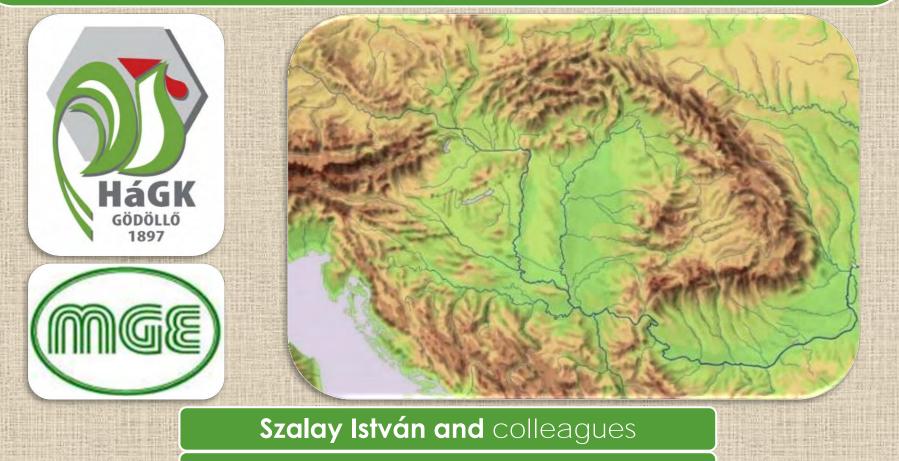
Traditional Hungarian Farm Animal Breeds Conserved by **HáGK: local farmed fish species**



Farm park and gene rescue of traditional Hungarian farm animal breeds in HáGK



Farm animal gene rescue programme in the Carpathian Basin: The Gene Ring **A GÉNGYŰRŰ**



HáGK, Gödöllő, Hungary

In situ gene rescue in the Carpathianbasin

A Géngyűrű

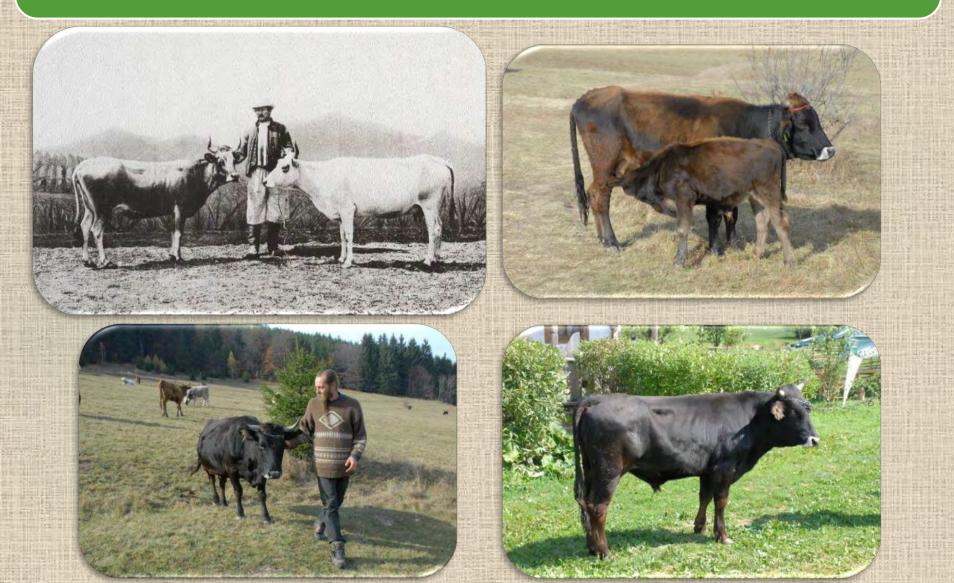






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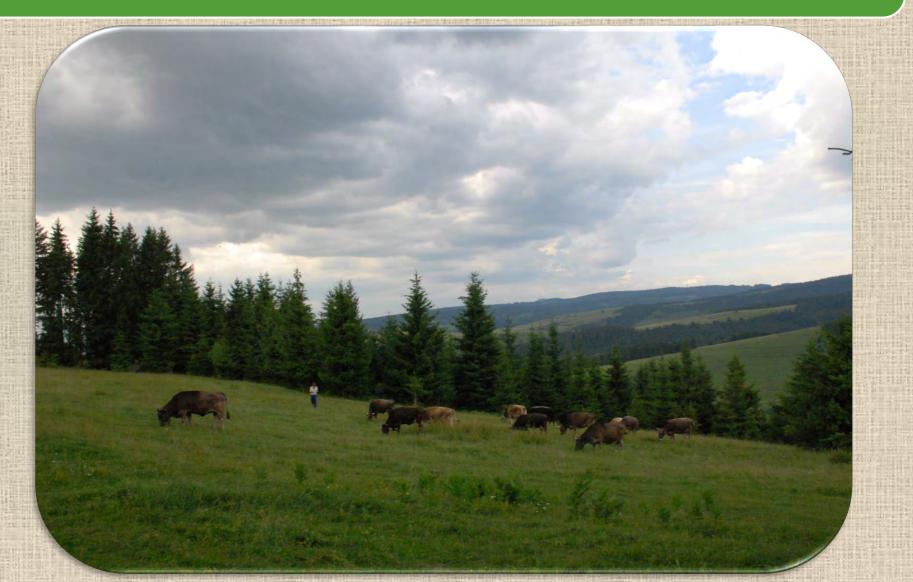
The GENE RING programme Carpathian Mountain cattle



The GENE RING programme At animal market



The GENE RING programme Carpathian Mountain cattle



The GENE RING programme Carpathian spotted type cattle





The GENE RING programme Carpathian spotted type cattle



The GENE RING programme Carpathian sheep breeds

Gyimes racka

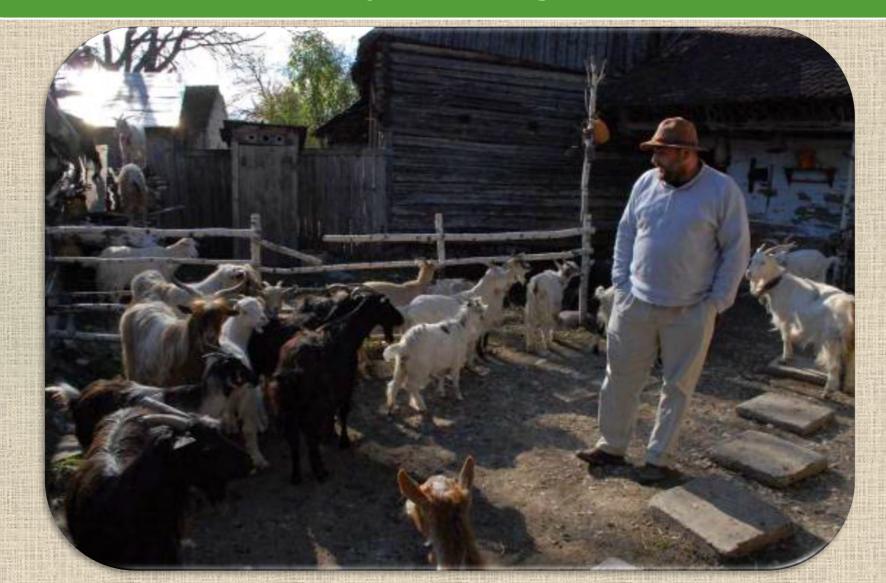
The GENE RING programme Carpathian sheep breeds



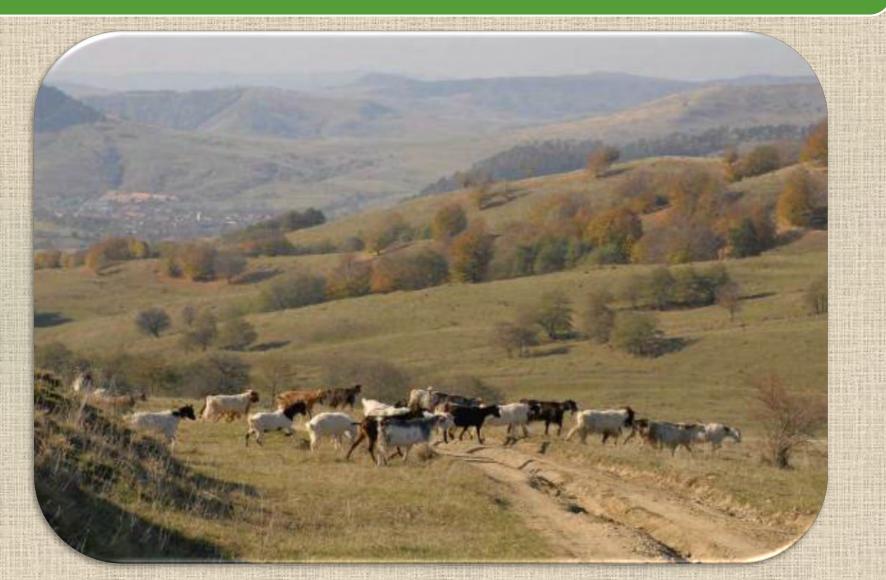
The GENE RING programme Carpathian sheep breeds



The GENE RING programme Transylvanian goat



The GENE RING programme Transylvanian goat



The GENE RING programme Poultry gene rescue





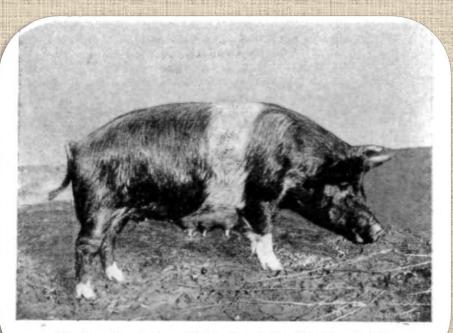
Transylvanian spotted turkey

Banat goose

The GENE RING programme Further plans: The Sekler horse



The GENE RING programme Further plans

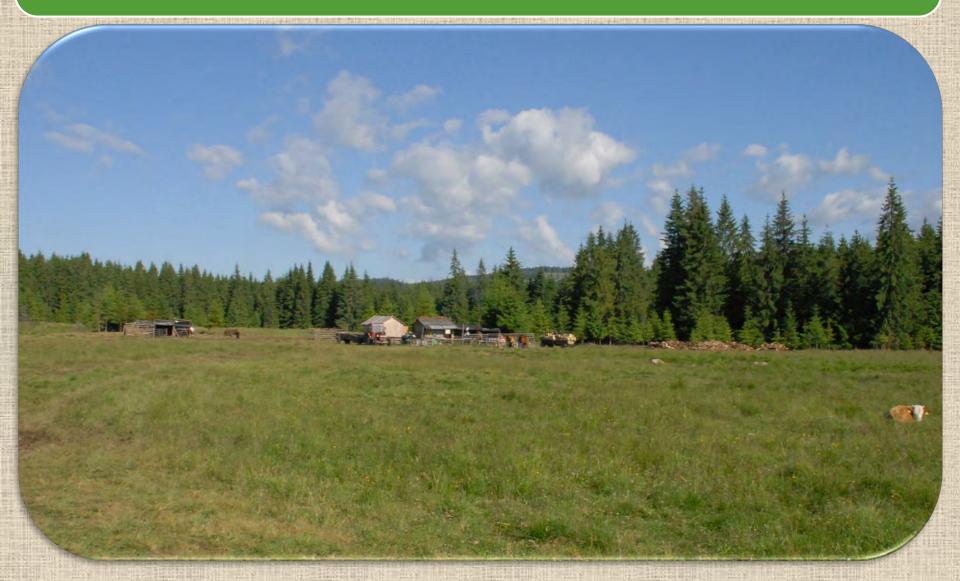


39. ábra. A szászok sertése (a báznai) Nagyküküllő megyéből, sertés Magyarországban" című munkám számára készült és a Franklin-társulat által átengedett ere felvétel után.

Transylvanian buffalo

Bazna pig

The GENE RING programme Traditional farmstead in the mountains



Farm animal gene rescue: In vivo gene bank stocks at **HáGK**





Thank you for your kind attention and hope to see you at HáGK soon

