



**NIBIO**  
NORSK INSTITUTT FOR  
BIOØKONOMI



**NIBIO**  
NORWEGIAN INSTITUTE OF  
BIOECONOMY RESEARCH

**NORWEGIAN GENETIC  
RESOURCE CENTRE**  
genressurser.no

## Policies and access rules for national genebanks Norway

ERFP *ex situ* WG,

Madrid 22 May 2019

Nina Sæther, PhD

Director Norwegian Genetic Resource Centre

### Gene banks in Norway

#### Poultry - egg layers

- One live gene bank with five lines from the Norwegian commercial egg layer breeding program. This breeding program ended in 1995.
  - Established in 1973
  - Almost public, owned by the breeding association for egg layers up to 1995.
  - No special policies or access rules; anyone can buy live animals or eggs

#### Dog

- Frozen semen from the seven native dog breeds, established 1992.
- Run by the Norwegian Kennel Klub in cooperation with the breed societies and Norwegian Genetic Resource Centre.



**NIBIO** | NORWEGIAN GENETIC  
RESOURCE CENTRE  
genressurser.no

## Storage of frozen semen from bulls

- No “public” gene bank, that is; not formally «authorized» in accordance with EUGENA
- Owned and run by Geno, breeding association for Norwegian Red Cattle = farmers’ cooperative. Geno covers all costs.
- Every year 1-3 bulls of each of the native endangered breeds are included in the gene bank, apr 1000 dozes per bull.
- Breed societies and Norwegian Genetic Resource Centre, nominate rams/bucks.
- Semen stored from appr 50 bulls of each of the six endangered native breeds.



## Gene bank of frozen semen from bucks and rams

- No “public” gene bank, that is; not formally «authorized» in accordance with EUGENA
- Owned and run by Norwegian Sheep and Goat association, breeding cooperative, owned by the farmers, for Norwegian sheep and goat breeds.
- The costs are mainly covered by Norwegian Sheep and Goat association, some support from public money.
- Every year 1-3 rams of each of the native endangered breeds are included in the gene bank.
- Breed societies and Norwegian Genetic Resource Centre, nominate rams/bucks to the gene bank.

## Terms of delivery for semen

= the same as for the commercial breeds

- “Semen and embryo delivered by Geno must not be disposed further.
- Animals that are inseminated with NRF-semen must not be sold to parties that are conducting, or have the intention to conduct, activities that compete with Geno.
- Offspring after insemination with semen or embryo from NRF, must only be used in own production or sold as part of domestic live cattle sale or by agreement with Geno.
- If NRF-semen/embryo/animals are disposed in conflict with this clause, the person concerned loses its’ right to buy semen or embryo of NRF.”

Thank you for your attention!







**NIBIO**

NORSK INSTITUTT FOR  
BØKKONOMI

## Meeting of the ERFP WG "Ex situ conservation"

