

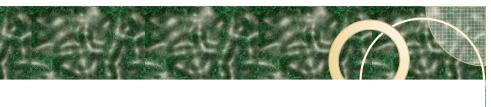
Kick-off meeting of the ERFP Working Group on Ex-situ conservation

Cryo-conservation in Slovenia

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University of LJUBLJANA, Biotechnical Faculty

Bonn, Thursday, 14th April 2011



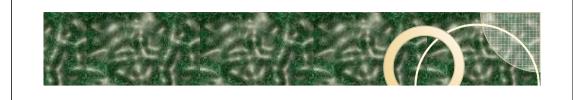
The legal framework

LIVESTOCK BREEDING ACT (2002)

(chapter 6) titled:

AND GENETIC RESERVES OF FARM ANIMALS CONSERVATION OF GENETIC VARIABILITY The following articles that purpose are earmarked:

- Article 66: Conservation of genetic variability
- Article 67: Biotic diversity in animal husbandry
- Article 68: Indigenous breeds
- Article 69: Monitoring and analysing of biotic diversity in animal husbandry
- Article 70: Special protection of the indigenous breeds of Apis Mellifera



genetic resources (2004) Decision on conservation of farm animal

Article 41 (Scope of conservation of specific indigenous and other breeds in ex situ gene bank)

Gene bank (ex situ conservation) in vitro shall the Regulation concerning genetic reserves be established for specific indigenous and endangered pursuant to the provisions of other breeds classified as critical or



The legal framework

After INTERLAKEN

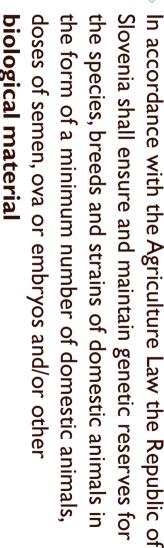
- Slovenia was adopt Multiyear Program of Work (MyPOW -periode 2010-16)
- Program of action for AnGR
- MyPOW included all SPA
- **Public services** The MyPOW has operate and lead with
- (open call) SLOVENIA INSIDE **PUBLIC SERVICE FOR FANGR IN Animal Science Department** BIOTECHNICAL



on conservation of farm animal genetic resources Genetic reserves are determined by the Regulation

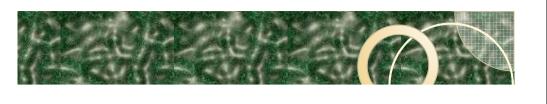
the minimum reserves of genetic material for for systematic activities ensuring an overview of each breed of farm animals which determines the preparation of requirements





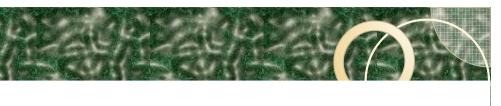
biological material

accordance with the approved breeding program. semen, full assessment of each individual pedigree order to estimate the genetic reserves of the bull breed of cattle is needed be stored at the authorized collection centers This obligation also applies to bull semen which has to 5



Genetic reserves are determined by the Regulation:

- indication of quality deterioration. of viability. Genetic material needs to be restocked in case of an Storage of genetic reserves shall provide for constant verification
- agriculture shall be constantly monitored and controlled by the Public Service for farm animal genetic resource conservation. Genetic reserves of farm animal genetic resources important for
- state of genetic reserves which shall be decided upon by the Animal Public service shall prepare at least once a year a report on the Husbandry Council.
- measures if required. The Council shall recommend to the Minister the proposals for



conservation established an expert council Public Service (PS) for farm animal genetic resource

- the PS Members are: a representative of PS, a other organizations performing specific tasks in organizations, one representative of each of the representative of each recognized breeders'
- important questions regarding the work of PS program and annual reports and all the Expert council gives its opinion to the annual



Cryo-bank

- Biotechnical faculty-Ljubljana
- Veterinary faculty-Ljubljana
- IC Preska (Cika cattle, Brown cattle)
- IC Ptuj (Simmental)





GENE BANK STORAGES

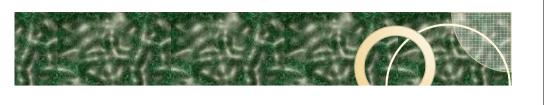
- Biotechnical faculty-Ljubljana (BF)
- Veterinary faculty-Ljubljana (VF)
- IC Preska
- IC Ptuj

GENE BANK STATISTIC for catlle

TOTAL	Crossbred	Simmental	Slovenian Brown	Pinzgauer	Cika	Breed
semen	semen	semen	semen	semen	semen	Туре
667	34	287	327	_	8	Animals
715	35	288	329	7	56	Animals Samples Doses
78787	2930	25900	48135	4	14	Doses



	3::	0		
breed	type	animals	samples	doses
Bela Krajina sheep	Semen	9	30	293
Bovec sheep	Semen	10	30	402
	Semen	σ	24	240
Jezersko-Solčava Semen sheep	Semen	σ	23	230
Drežnica goat	Semen	ω	9	90
TOTAL	semen	38	116	1255



Tissue DEPOSITORY

2000		H	Z
Dog	The Karst Shepherd (Kraševec)	tissue	62
Horse	Posavje horse	blood	64
	Haflinger	blood	59
	Island	blood	7
	Troter	blood	342
	Quarter	blood	ω
	SI Cold-Blooded	blood	204
	SI Worm-Blooded	blood	28
	Lipizzan horse	blood	1063
	Galloper	blood	20

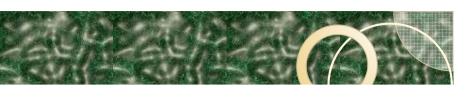
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Tissue DEPOSITORY

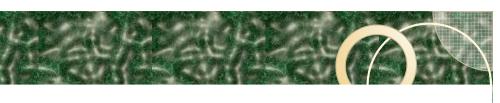
Species	Breed	Type	Z	DNA
Cattle	Cika	blood	156	<
	Cika	semen	150	
	Slovenian Brown	blood	- 84	<
	Black and White	blood	123	<
	lisasta	blood	217	<
Pig	Krško Polje pig	tissue	121	
Goat	Drežnica	blood	45	
Hen	Styrian Hen- Štajerka	semen	20	
Honeybee	Karniolan Honeybee	tissue	400	

...continued



Tissue DEPOSITORY

Species	Breed	Туре	Z	DNA
Sheep	Bovec sheep	blood	45	
		semen	210	
	Istrian sheep	blood	46	
		semen	60	
	Jezersko-Solčava sheep	blood	55	
		semen	120	
	Improved Jezersko-Solčava	blood	29	
	Bela Krajina sheep	blood	6	
		semen	105	
	Texel	blood	4	
TOTAL			3958	



Thank you

