

National genebank information repositories in FABISnet



Zhivko Ivanov DucheV¹, Gustavo Gandini², Eildert Groeneveld¹
¹Institute of Farm Animal Genetics, Mariensee, FLI, Germany
²Università degli Studi di Milano, Milano, Italy
zhivko.duchev@fli.bund.de

FRIEDRICH-LOEFFLER-INSTITUT
FLI
Bundesforschungsinstitut für Tiergesundheit
Federal Research Institute for Animal Health
Session 13 Abstract 4364

INTRODUCTION

The ex situ in vitro preservation of germplasm plays important role in conserving the livestock breeds diversity.

Many countries in Europe have already collections with status of national genebanks.

In most of the countries these collections are disconnected and no central information repository on national level exists.


There is a need for uniform recording and storage of minimum passport data for successful management of national genebanks.

CryoWEB SOFTWARE


Free software for management of national genebanks data via web interface.


Main blocks:

- **Animal** – herdbook data, location, image, birth certificate, health status
- **Samples** – production and freezing data, stored units and distribution within the storage
- **Movements** – sample and container movements, usage of samples
- **Contacts** – organizations and persons linked with the genebank
- **Reports** – various statistics ready to print in PDF format

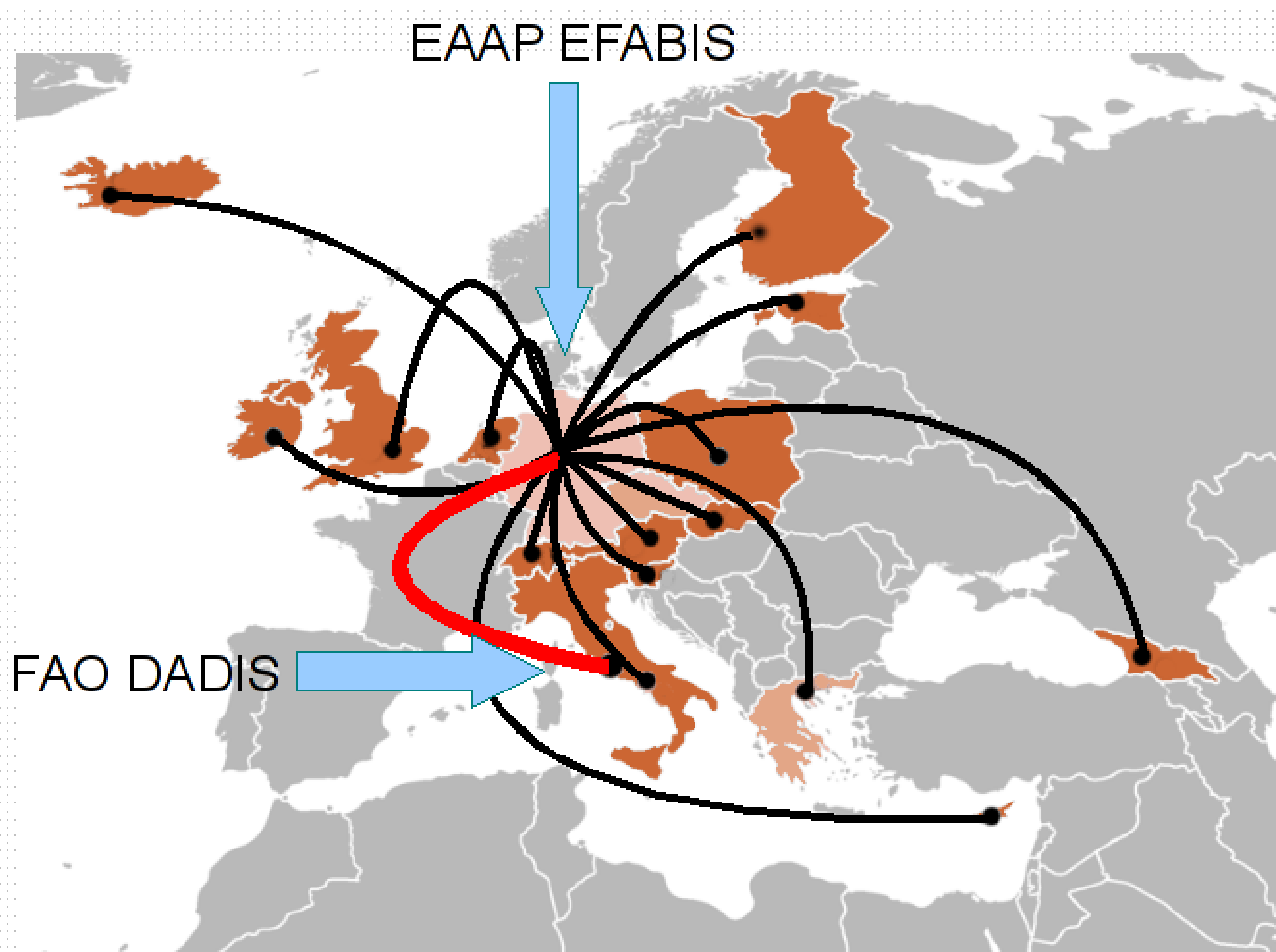


Samples Statistics Report

Animal ID		G-003340		Amount of samples:		1	
Species: Sheep		Breed: Rauhwolliges Pommersch					
Sire: G-000250		Dam: G-097797					
Sex: männlich		Organization: ZV-NS-Schaf					
Day of birth: 26/03/2003		Year of birth:					
Latitude: 52.847123		Longitude: 9.12723					
Material: Sperma		Core: 307		Free: 0		Owned: 0	
Sample: MA_021_KR_S_Snh_S03_Mariensee_G-003340_RPL_25.11.03							
Location						 Production Date 25-11-2003	
	Storage	Tank	Canister	Level	Cell	Replicate	Status
1	TZ	V	57	3	-	307	Kern



FABISnet



Network of national, regional (EAAP EFABIS) and world (FAO DAD-IS) nodes for monitoring farm animal genetic resources

12 national nodes set in Europe within FABISnet project

Network is still expanding – Greece, Finland, Hungary established national nodes in 2009

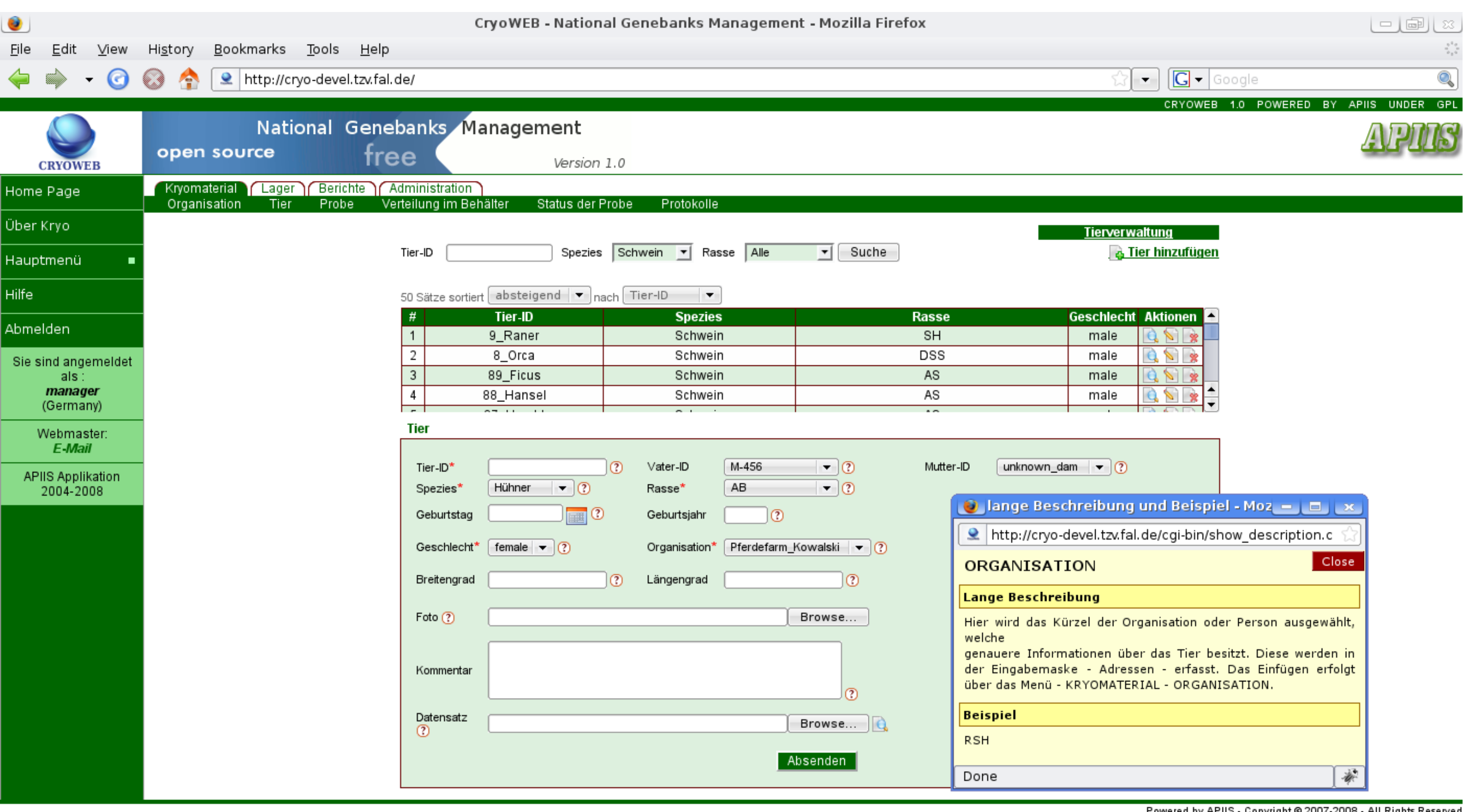
NATIONAL CryoWEB INSTALLATIONS

CryoWEB was installed in:

- Austria
- Netherlands
- Slovenia
- Slovakia
- Iceland
- Switzerland
- Finland
- Estonia
- Germany
- Greece

	Semen	Embryos	Blood	Somatic cells
Cattle	x	x	x	
Sheep	x		x	
Goat	x		x	
Horse	x		x	
Pigs	x			x
Chicken	x			
Dogs			x	

Type of material available for the various species in the project partners' genebanks



CONCLUSIONS

First effort for setting uniform national genebank information repositories across Europe.

Existing data were very heterogeneous in amount and quality among the countries

The CryoWEB can be used as a guideline what data to record in newly established genebanks.

May be of interest for other countries in the world.

