

# National Workshop on Intellectual Property, Genetic Resources and Traditional Knowledge:

20<sup>th</sup> of November 2014, TPE Ankara

## Status and legal framework in Turkey

**A. Oya AKIN**

**National Coordinator for AnGR,  
GDAR**



# Content

- “ National Focal Point of AnGR
  - “ Background
  - “ Institutional infrastructure
- “ What is doing now in AnGR management?
  - “ Characterization, inventory, awareness
  - “ Conservation
  - “ Sustainable utilization
  - “ Policies, institutions and capacity building
- “ Future management of AnGR





# National Focal Point of AnGR

## What is AnGR; definitions and importance

---

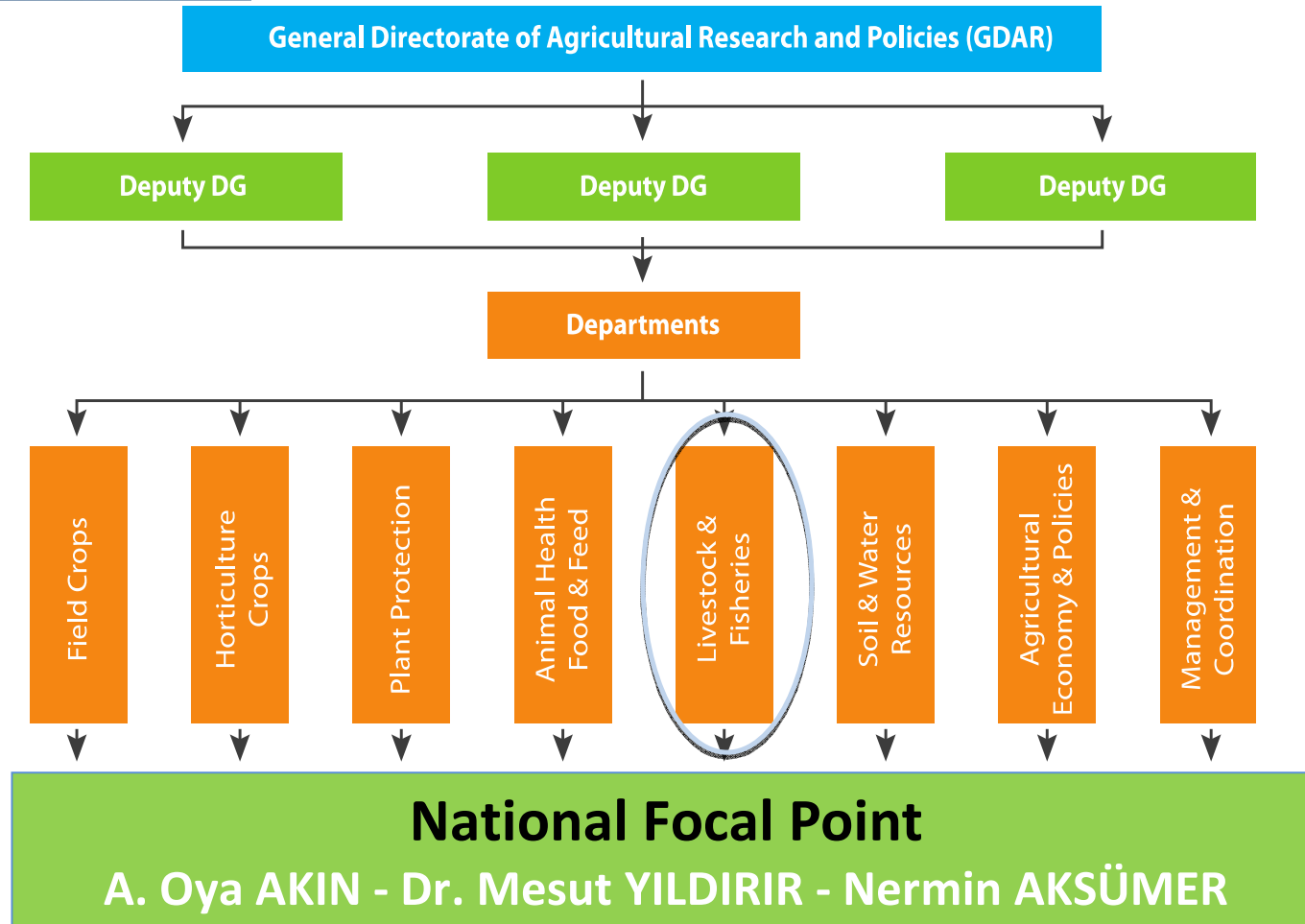
About **40 animal species** have been domesticated for use in food production and agriculture.

Five species; **cattle, sheep, chickens, goats and pigs** dominate in terms of numbers and distribution.

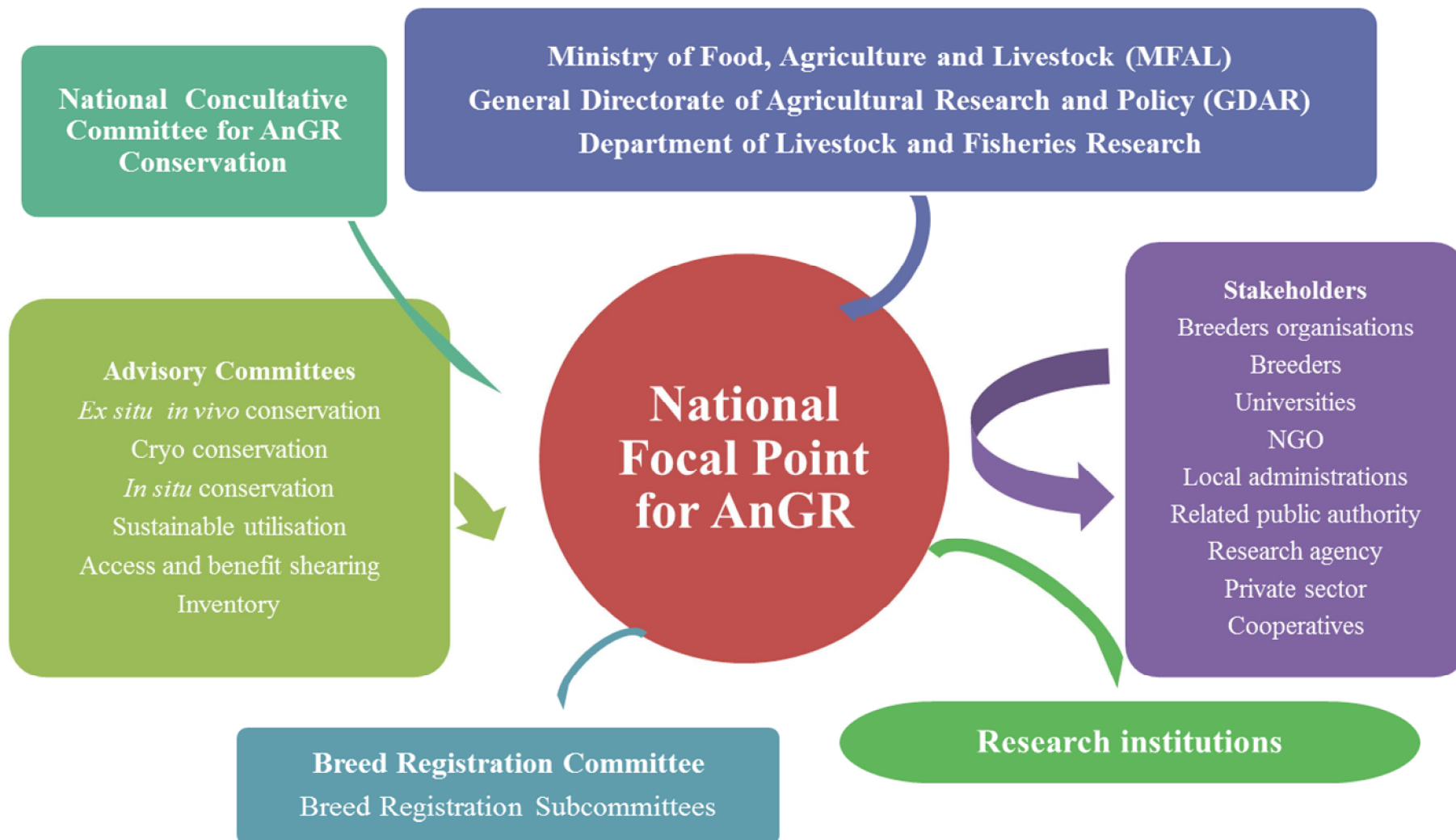
The composition of livestock breed has never been static. Over time, breeds emerged, were crossed to develop new breeds and disappeared.



# Ministry of Food, Agriculture and Livestock



# National structure of AnGR Focal Point in Turkey



# Background story of NFP



- “ Preparation of the conservation project with national consultants, 1995
- “ Research institutes have been included in *ex situ* conservation project, 1995-1997-2002
- “ Appointment of national coordinator, 2001
- “ Establishment of 2 national consultative committees, 2002
- “ Establishment of 8 breed registration subcommittees, 2004
- “ Establishment of AnGR Research Working Group, 2012
- “ Establishment of 6 national advisory committees , 2013

# What is doing now in AnGR management?

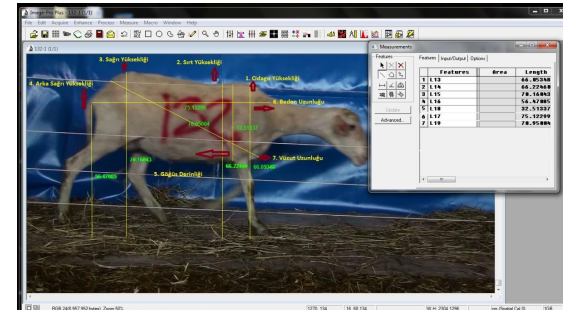
- Characterization, inventory, awareness, conservation, sustainable utilisation





# Characterization

- É The projects on characterization of AnGR in morphologic, physiologic and genetic level are supported by GDAR
- É TÜRKHAYGEN-I project for pre molecular characterization
- É Infrastructures of the research institutes were strengthened



# Inventory



- É The need and possible implementation ways of a comprehensive breed inventory study was brought up with relevant stakeholders on various platforms.
- É The breed catalog was prepared in 2009 to help survey takers to classify breeds and crossbreds more accurately. The English version of the catalogue was published in 2011.
- É Descriptive material for breed inventory have been prepared



## Raising awareness;

the documentary films, tv programs and series stamps



## Conservation projects

*Ex situ in vivo conservation*; project was started in 1995, today 4 sheep, 4 cattle, 1 water buffalo, 1 goat, 1 bee and 2 chicken breeds and 3 silkworm lines in 6 institutes of GDAR.

*In situ conservation*; was started in 2005, subsidies have been given for registered 6 cattle, 1 water buffalo, 10 sheep, 9 goat and 1 bee breeds

*Ex situ in vitro*; Cryo-conservation, two gene banks were established, characterization, capacity building, biotechnology



## Sustainable utilization

- “ Subsidies have been given for live animals and their products by MFAL
- “ Sheep and goat breeders' organization have been enlarged and strengthened
- “ The Animal Improvement Program on Breeders' Condition has been started in 2006





## Legislation on AnGR

## Legislation on AnGR

- **Law on Veterinary Services**, Plant Health, Food and Feed, 2010
- Regulation on **utilization and export** of the native domestic AnGR ,2012
- Decree on Livestock Production **Subsidies** (revizes each year)
- Animal Genetic Resources **Conservation and Sustainable Utilization** Regulation, 2002 and revized 2012
- Animal **Breed Registration Regulation**, 2002 and revized 2012



## Regulation on utilization and export

### Regulation on utilization and export of the native domestic AnGR:

The aim of the regulation is to embody the procedures and principles of the necessary actions and processes for utilization and export of the FAnGR. All actions related to FAnGR are conducted by the Ministry of Food Agriculture and Livestock and FAnGR are not allowed to export for any reasons without permission of the Ministry.



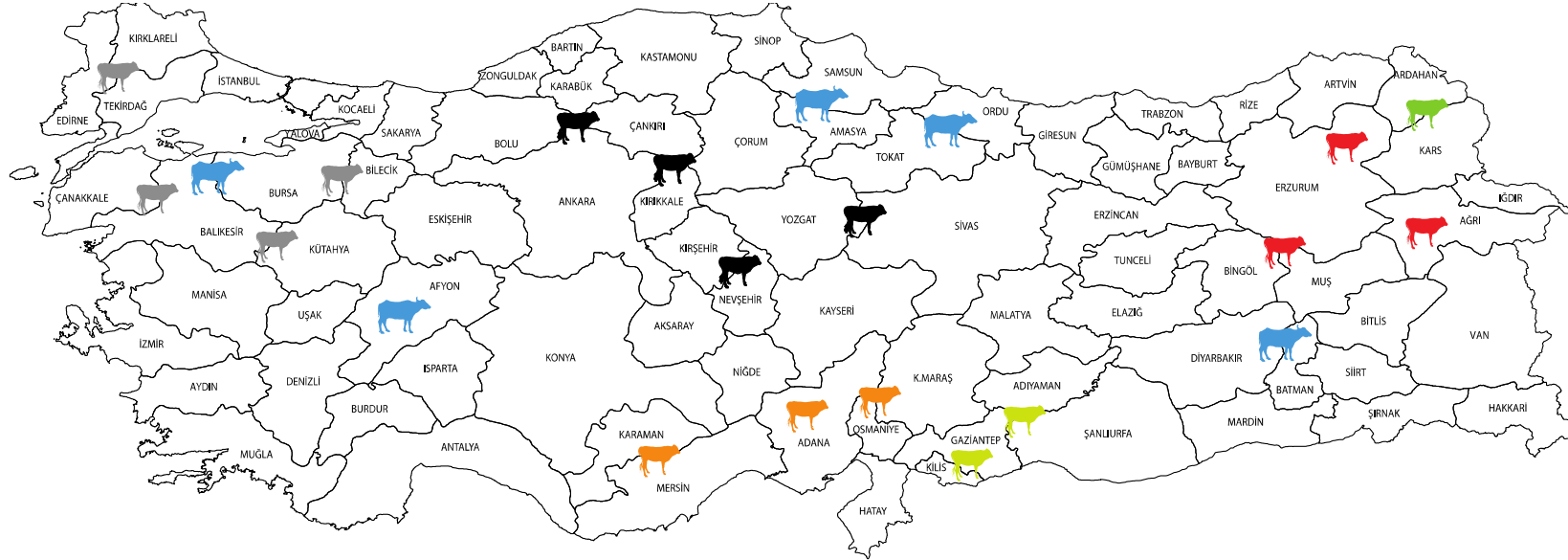
## Regulation on utilization and export

Regulation on utilization and export of the native domestic AnGR: Foreign national legal entities should get permission from the GDAR for the utilization of FAnGR for their research activities in Turkey. Also Turkish researchers should get permission from GDAR for the utilization of FAnGR for their research activities abroad. In this context, unregistered FAnGR can not be export except for the research aim. If there is no sufficient information about a certain genotype then exporting is not allowed of the genotype despite the registration.

## Regulation on utilization and export

Regulation on utilization and export of the native domestic AnGR:  
The lists of the impermissible and subject to pre-permission of FAnGR determined by the National Committee and announced by the Ministry of Economy via statement published in TR Official Gazette. With in this scope, endangered and/or under the risk of endangerment FAnGR are not allowed to export with any commercial aim. Moreover, FAnGR which will be used for scientific researches by foreign national legal entities are not allowed to export without necessary document such as application form, permission form and MTA (Material Transfer Agreement). In case of the stocks are limited, requests for the exportation of genetic material from the Gene Banks are not accepted.

# Breed registration



Native Black Cattle



Anatolian Gray Cattle



Anatolian Water Buffalo



South Anatolian Red (Kilis)



East Anatolian Red

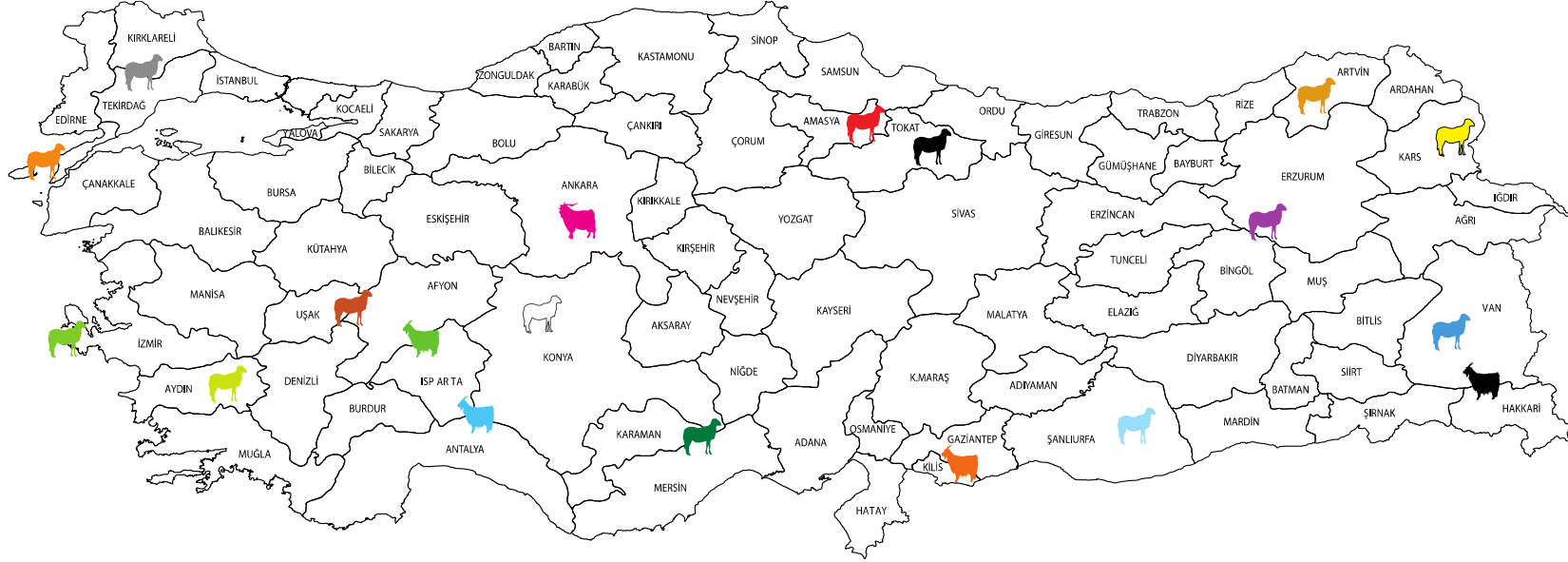


Native Southern Yellow



Zavot

## Breed registration



Sakız (Chios)



Hemşin



Mor Karaman



Ankara Keçisi



Çine Çaparı



Norduz



İvesi



Honamlı Keçisi



Gökçeada (İmros)



Dağlıç



Akkaraman



Kilis Keçisi



Kıvırcık



Güney Karaman



Tuj



Kıl Keçisi



Herik



Karagül

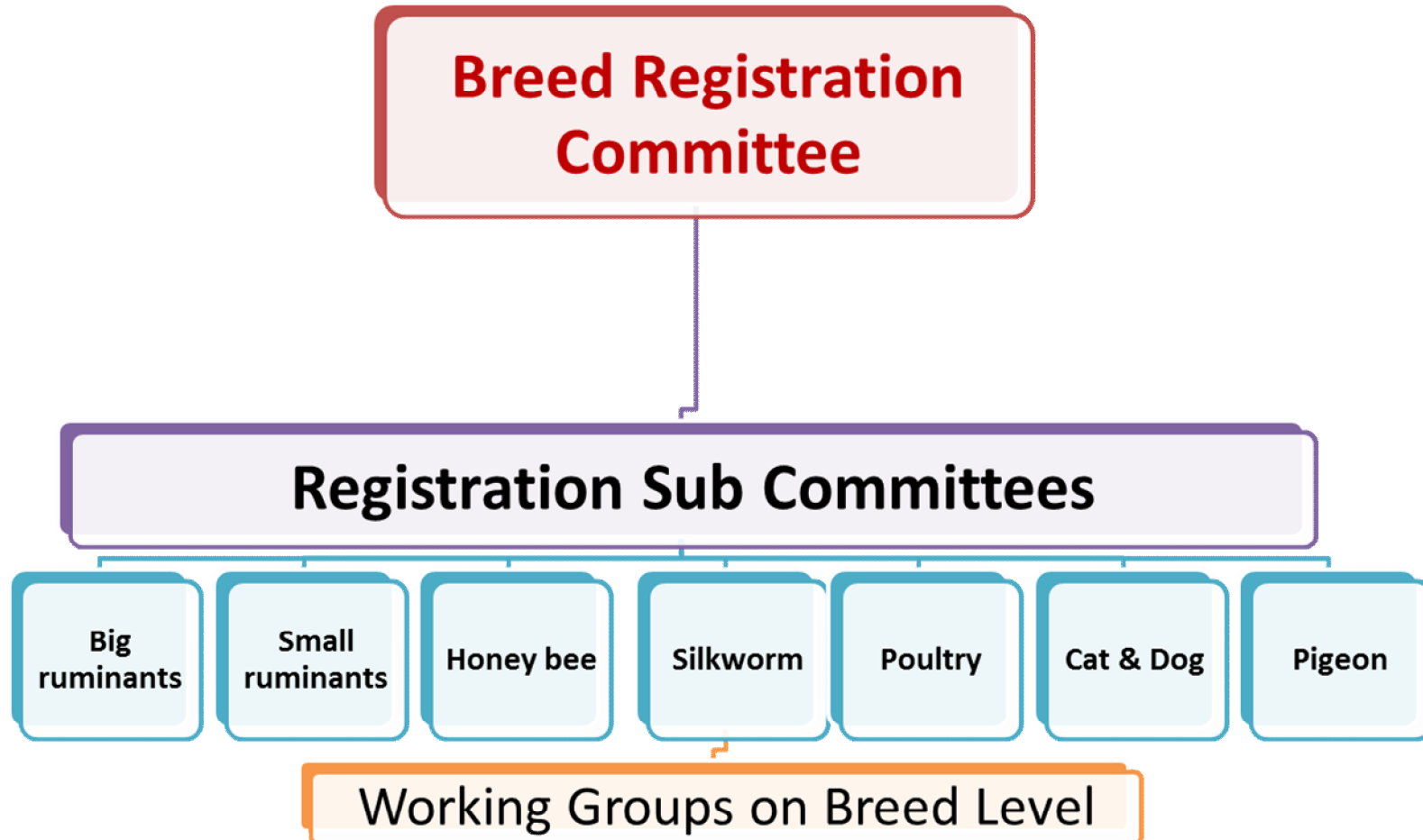


Norduz Keçisi

## Breed registration

- “ **2004:** Anatolian Black Cattle, South Anatolian Red Cattle, Native Southern Yellow Cattle, Turkish Grey Cattle, Eastern Anatolian Red Cattle; Anatolian Water Buffalo; Awassi Sheep, Sakiz Sheep, Imroz Sheep, Karacabey Merino Sheep, Daglic Sheep, Red Karaman Sheep, Tushin Sheep, Norduz Sheep; Angora Goat, Hair Goat, Norduz Goat; Angora Rabbit; local Silkworms (Bursa Beyazı, Bursa Alaca, Hatay Sarısı); Caucasian Bee.
- “ **2005:** Kivircik Sheep, White Karaman Sheep, Karayaka Sheep; Kilis Goat; Kangal Dog; Turkish Van Cat.
- “ **2006:** Malya Sheep; Akbash Dog.
- “ **2007:** Anatolian Merino Sheep, Central Anatolian Merino Sheep.
- “ **2008:** Cine Capari Sheep, Angora Cat.
- “ **2009:** Acıpayam Sheep, Sönmez Sheep.
- “ **2010:** Polatli Sheep, Bafra Sheep, Bursa Roller Pigeon.
- “ **2011:** Trakya Makaracısı, Zağar
- “ **2012:** Hemşin, Kangal Akkaraman, Türkgeldi, Tahirova, Menemen Alabadem, Edremit Kelebek Güvercini
- “ **2013:** Karya, Akkeçi, Muğla Dalıcı Güvercini
- “ **2014:** Zavot, Güney Karaman, Hasmer, Hasak, Ramlıç

# System



 **PDF**  
Complete

*Your complimentary  
use period has ended.  
Thank you for using  
PDF Complete.*

[Click Here to upgrade to  
Unlimited Pages and Expanded Features](#)

## Breed registration



Animal Breed Registration Regulation, 2002 and revised 2012

Local and improved animal breed, type and lines of Turkey are registered by Animal Breed Registration Committee.

# Breed registration

## Animal Breed Registration Committee

- “ holds annual meetings at the end of April,
- “ Overviews prepared animal registration lists and approves or denies

### Animal Registration Form:

a list constituted on the base of species

Animal Registration List: Based on scientific data, a list including morphologic, physiologic, genetic and other characteristics related to animal breed to be registered



# **MAL BREED REGISTRATION**

## **Animal Breed Registration Sub-Committees**

- “ constituted on the basis of species; big ruminants, small ruminants, poultry, dog, cat, bee and silkworm.
- “ each sub-committee consists of experts with PhD degree and a consultant.
- “ arrange animal registration lists.

# ANIMAL BREED REGISTRATION

## Working Groups

- “ constitute on the basis of breeds
- “ consist of researchers from institutes of GDAR
- “ provide all scientific documents and record data in animal registration forms

## of Turkey in EFABIS and DAD-IS network

- “ Data of 101 breeds have been recorded in DAD-IS since 2002.
- “ Population data are not available or given in approximate figures in EFABIS databases.
- “ There is no information for some breeds except their names.
- “ For some breed data still need to be recorded

## Turkish Government in Strategic Priority Area 1 of Global Action Plan

- “ Taking urgent measures to complete the AnGR inventory,
- “ Consideration of geographical, climatic, socio-economic, cultural and breed diversity of regions while conducting animal breeding programs,
- “ Establishment or encouragement of breeders’ organizations and development of niche markets.
- “ Establishment of institutional responsibilities and infrastructure for monitoring trends in AnGR,
- “ Establish breed endangerment early warning/response systems,

## Turkish Government in Strategic Priority Area 1 of Global Action Plan

- “ Establish a platform for the introduction of animal identification and performance recording systems
- “ Installation of EFABIS national node,
- “ Regional Collaboration;
  - cooperate and share experiences,
  - initiate, develop and implement regional projects.

# Registration

“ 61 local animal breeds, types, lines and genotypes have been registered since 2004

“ European Farm Animal Biodiversity Information System (EFABIS)

“ GENBIS, national information system for AnGR has been establishing, [genbis.tagem.gov.tr](http://genbis.tagem.gov.tr)

## REGISTERED LOCAL ANIMAL BREEDS, TYPES, LINES and LAYER HYBRIDS

	Name	Date and number of TR Official Gazette	Notification Number		
Big Ruminant Breeds	Native Black Cattle / Yerli Kara	12/12/2004 and 25668	2004/39		
	South Anatolian Red / Güney Anadolu Kırmızı (Kilis)				
	Native Southern Yellow / Yerli Güney Sansı				
	Anatolian Gray Cattle / Boz İrk				
	East Anatolian Red / Doğu Anadolu Kırmızı				
Sheep Breeds	Anatolian Water Buffalo / Anadolu Mandası	12/12/2004 and 25668	2004/39		
	Red Karaman / Morkaraman				
	Daglic / Dağlıç				
	Awassi / İvesi				
	Norduz / Norduz				
	Tushin / Tuşin				
	Chios / Sakız				
	Imbros / Gökçeada				
	Turkish Merino/ Karacabey Merinosu				
	Kivircik / Kıvrık				
	Karayaka / Karayaka			22/04/2006 and 26147	2006/16
	White Karaman / Akkaraman			09/07/2006 and 26223	2006/32
	Malya / Malya				
Cine Çapanı / Çine Çapan					
Anatolian Merino / Anadolu Merinosu	04/07/2007 and 26926	2008/39			
Central Anatolian Merino / Orta Anadolu Merinosu	28/12/2007 and 26740	2007/52			
Acipayam / Acipayam	08/02/2009 and 27135	2009/21			
Sönmez / Sönmez					
Polatlı / Polatlı					
Bafra / Bafra	16/07/2010 and 27643	2010/27			
Goat Breeds	Angora Goat / Ankara Keçisi	12/12/2004 and 25668	2004/39		
	Hair Goat / Kil Keçi				
	Norduz Goat / Norduz Keçisi				
Poultry and Small Domestic Animals	Kilis Goat / Kilis Keçisi	22/04/2006 and 26147	2006/16		
	Denizli / Denizli	12/12/2004 and 25668	2004/39		
	Gerze / Gerze				
	Native Silkworm Lines / Bursa Beyazı, Bursa Alaca, Hatay Sansı				
	Caucasian Honey Bee / Kafkas Arısı				
	Angora Rabbit / Ankara Tavşanı	22/04/2006 and 26147	2006/15		
	Layer Hybrids / ATAK, ATAK-S, ATABEY				
	Kangal / Kangal			22/04/2006 and 26147	2006/16
	Van Cat / Van Kedisi				
	Akbaş / Akbaş			09/07/2006 and 26223	2006/32
Angora Cat / Ankara Kedisi	05/12/2008 and 27075			2008/64	
Bursa Tumblers / Bursa Oynan	16/07/2010 and 27643			2010/27	
Thrace Roller / Trakya Makaracı	25/08/2011 and 28036			2011/38	
Zagor Hunt Dog / Zağar İzci Köpeği					

THANK YOU

[oakin@tagem.gov.tr](mailto:oakin@tagem.gov.tr)

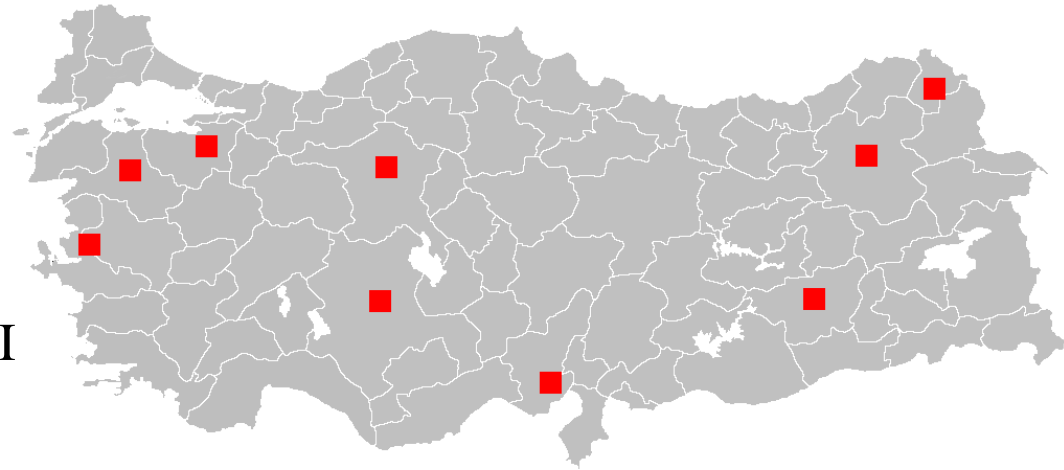


T.C.  
GIDA TARIM VE HAYVANCILIK  
BAKANLIĞI

## Research institutions of GDAR



- “ Lalahan CLRI
- “ Sheep RS
- “ East Anatolia ARI
- “ East Mediterranean ARI
- “ Bahri Da da IARI
- “ Southeast Anatolia ARI
- “ Bursa Provincial Departments of MFAL
- “ Kafkas (Caucasian) Bee Gene Center





<b>Institution</b>	<b>Project leader</b>	<b>Project number</b>
<b>Lalahan CLRI</b>	<b>5</b>	<b>6</b>
<b>Sheep RS</b>	<b>4</b>	<b>9</b>
<b>East Anatolia ARI</b>	<b>3</b>	<b>7</b>
<b>East Mediterranean ARI</b>	<b>1</b>	<b>4</b>
<b>Bahri Dağdaş IARI</b>	<b>2</b>	<b>3</b>
<b>Southeast Anatolia ARI</b>	<b>2</b>	<b>2</b>
<b>Bursa Provincial Departments of MFAL</b>	<b>1</b>	<b>1</b>
<b>Kafkas (Caucasian) Bee Gene Center</b>	<b>1</b>	<b>1</b>
<b>Total</b>	<b>19</b>	<b>33</b>

 **PDF Complete**  
Your complimentary use period has ended.  
Thank you for using PDF Complete.  
[Click Here to upgrade to Unlimited Pages and Expanded Features](#)

# National Committee for AnGR Conservation



## Advisory Committees

*Ex situ in vivo* conservation

Cryo conservation

*In situ* conservation

Sustainable utilisation

Access and benefit sharing

Inventory



## Breed Registration Committee Breed Registration Subcommittees

