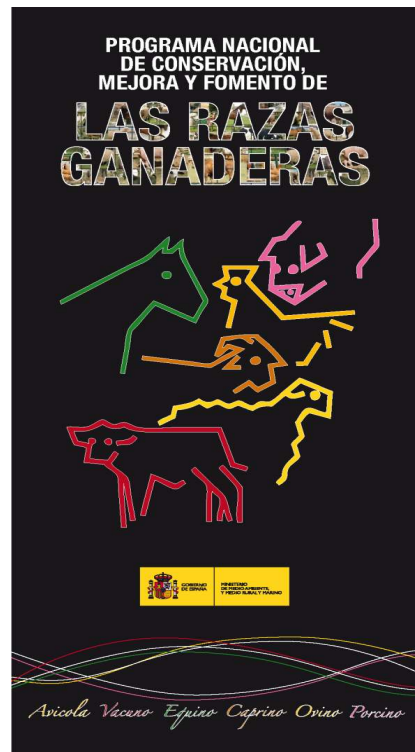




GOBIERNO  
DE ESPAÑA

MINISTERIO  
DE AGRICULTURA, PESCA  
Y ALIMENTACIÓN

## GENERAL OVERVIEW OF SPANISH ANIMAL GENETIC RESOURCES



ERFP Meeting  
Madrid, May 21st



**Montserrat Castellanos Moncho**  
**S.G. Means of Livestock Production**  
**Ministry of Agriculture, Fisheries and Food**

## OUTLINE

- General Spain overview: Some characteristics
- Livestock production figures and % purebred
- Spanish Zootechnical legislation
- National program for conservation, improvement and promotion of breeds
- Some tools and objectives



## SPANISH SITUATION: SOME CHARACTERISTICS

Spain is structured in 17 Autonomous Communities and 2 Autonomous Cities

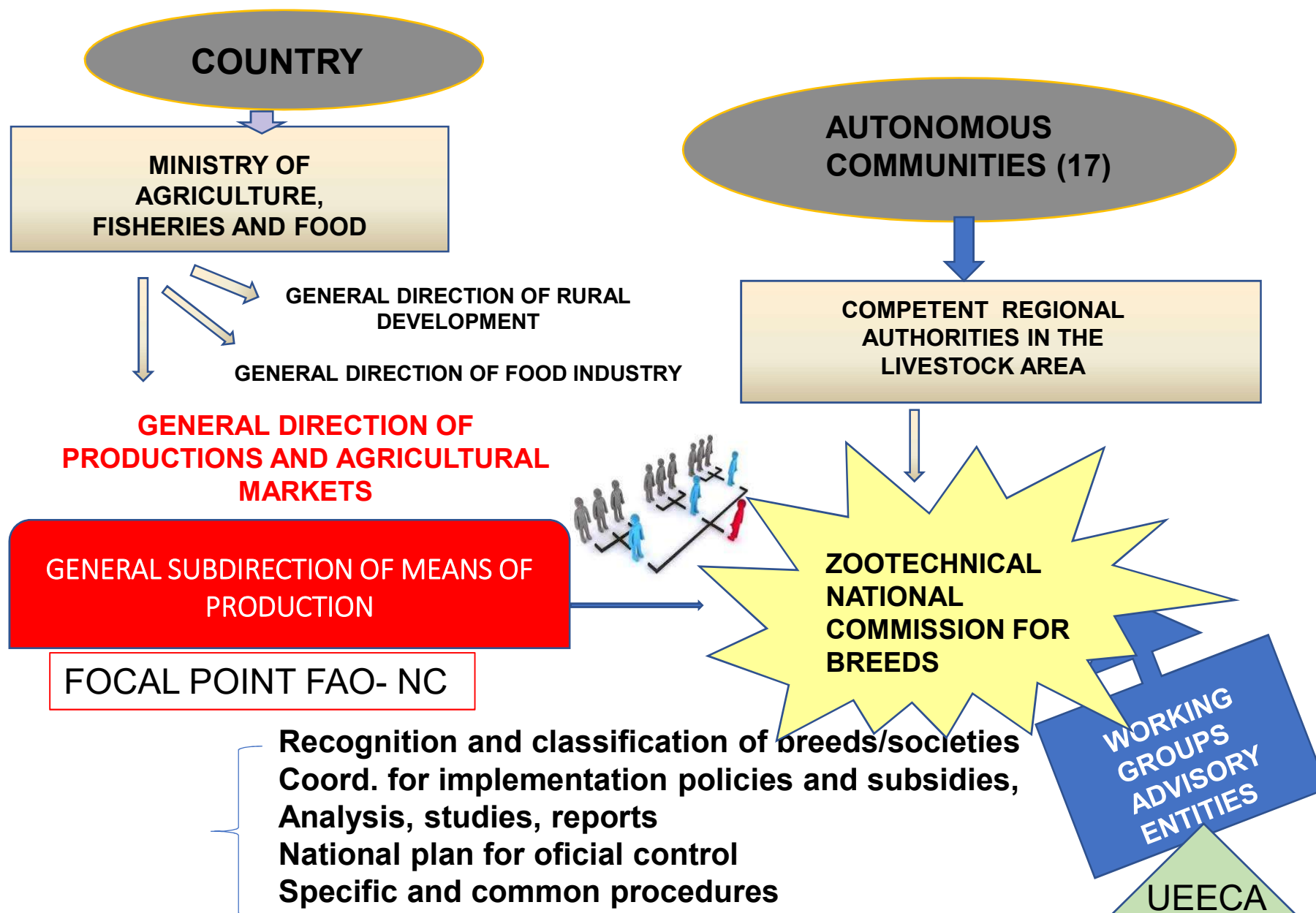
High level of diversity and quality products

Geographical, production systems, environments, climatic and cultural differences: Mediterranean, wet Atlantic, semiarid, subtropical, mountains....



## COMPETENCIES IN ZOOTECHNICS:

Importance of national policy and networks for coordination

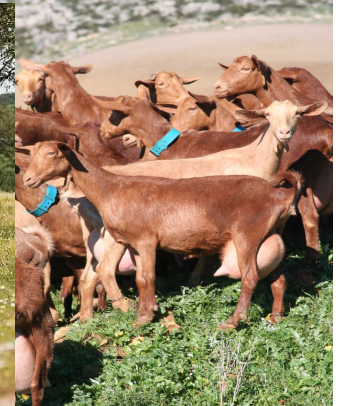




# FARMING SYSTEMS IN SPAIN: Extensive and unique ecosystems



**INTEGRATION OF LIVESTOCK  
FARMING INTO THE NATURAL  
ENVIRONMENT AND USE OF  
RESOURCES**





# FARMING SYSTEMS IN SPAIN:

## Intensive high production



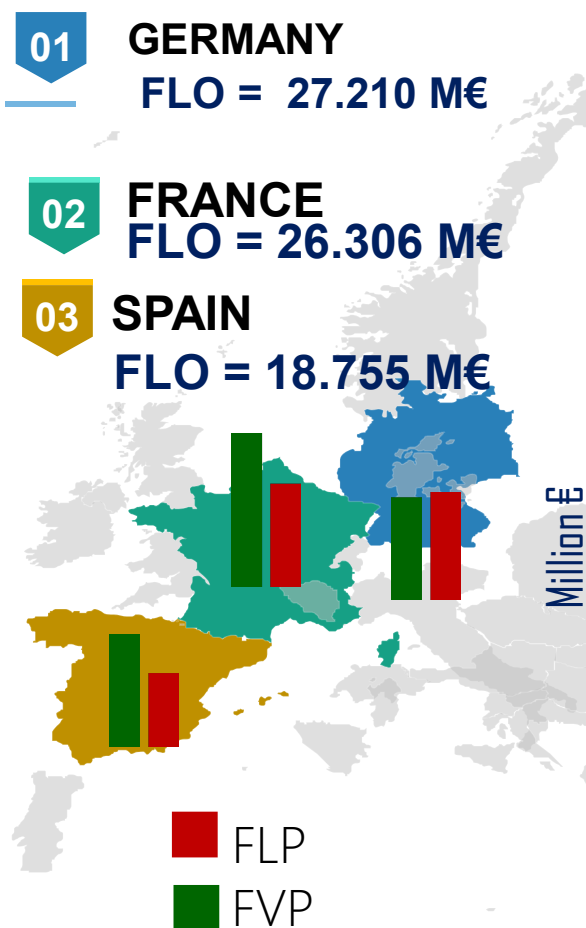
# ECONOMICAL VALUE AND IMPORTANCE OF LIVESTOCK

## EU-28 COUNTRY RANKING VALUE FINAL LIVESTOCK OUTPUT (2017)

**01 GERMANY**  
FLO = 27.210 M€

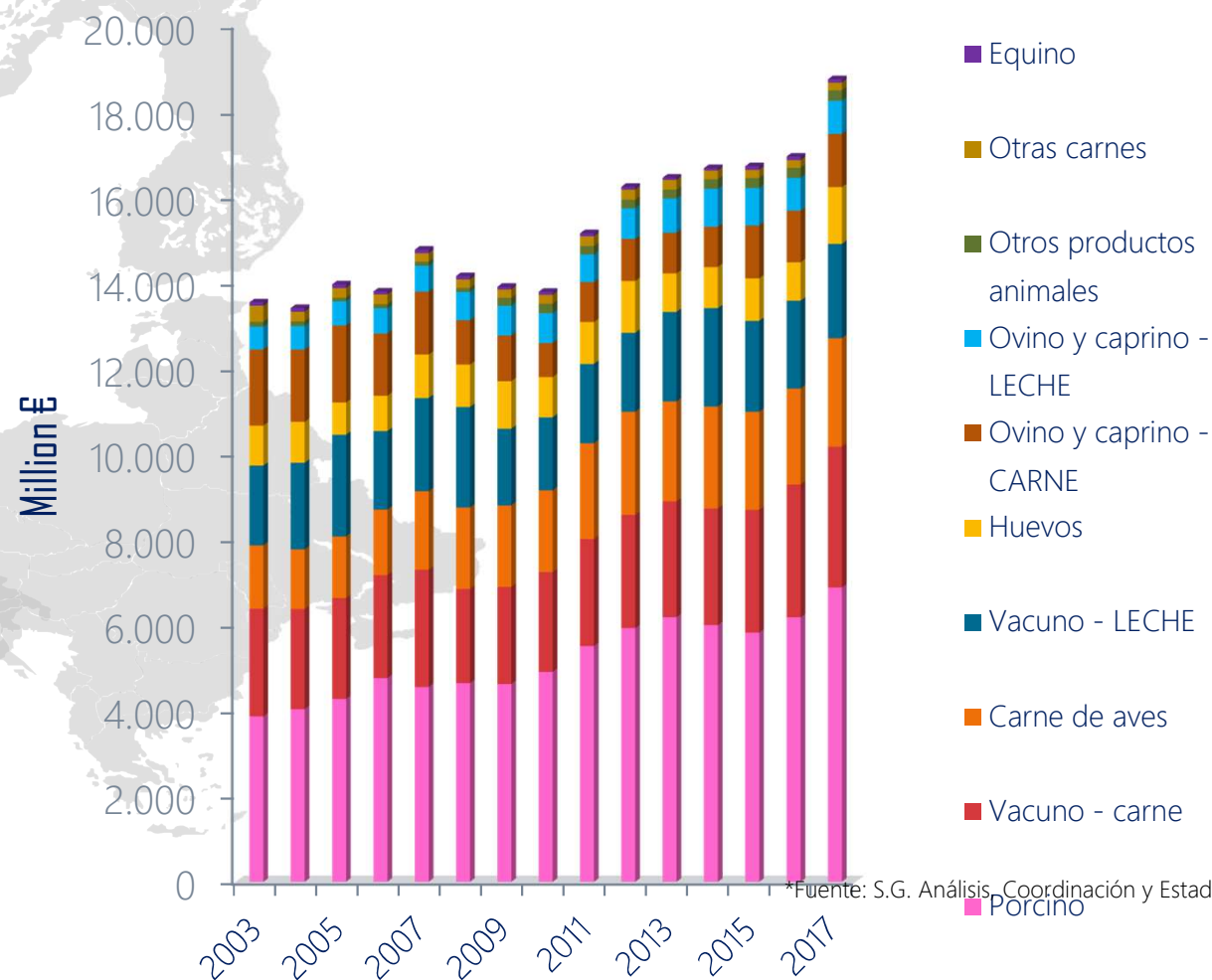
**02 FRANCE**  
FLO = 26.306 M€

**03 SPAIN**  
FLO = 18.755 M€



Fuente: Eurostat

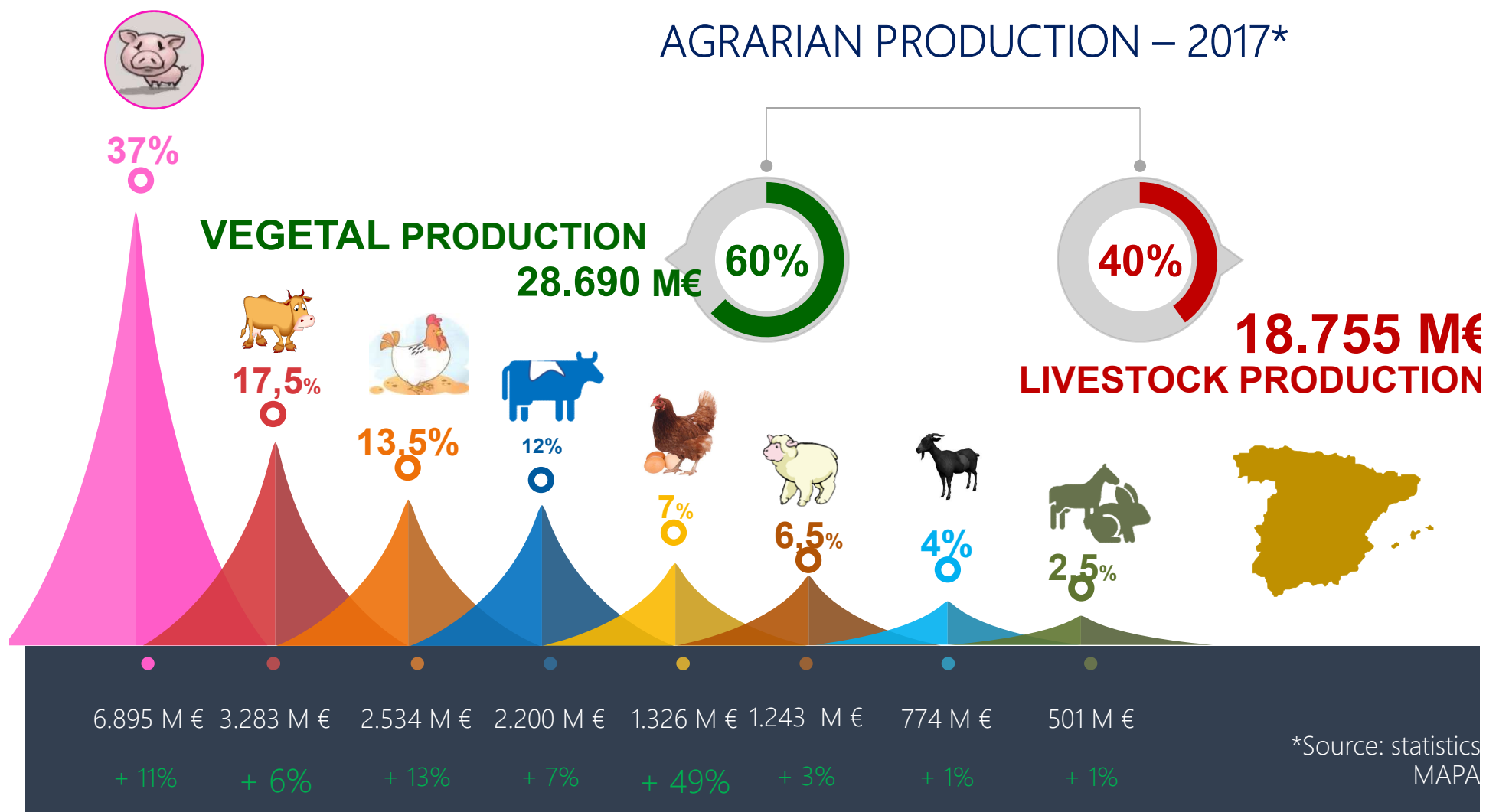
## SPANISH EVOLUTION FLO 2003-2017



\*Fuente: S.G. Análisis, Coordinación y Estadística (MAPA)

# ECONOMICAL VALUE AND IMPORTANCE OF LIVESTOCK

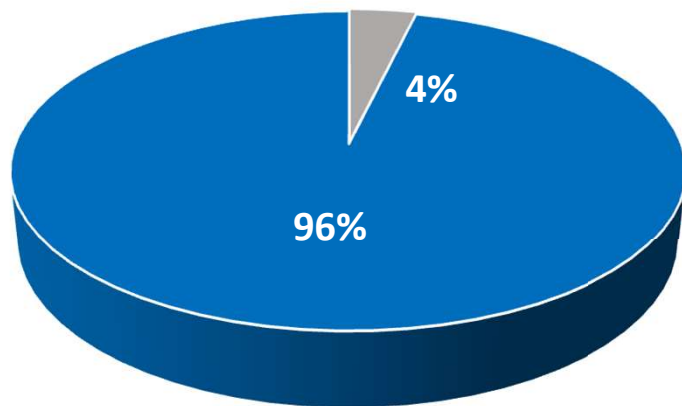
## AGRARIAN PRODUCTION – 2017\*





# Porcine sector

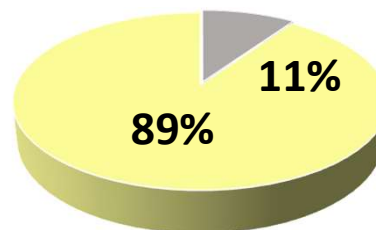
% PUREBRED PORCINE



■ Nº ANIMALS IN BB

■ Nº ANIMALS PORCINE SPECIES

% PUREBRED FARMS



■ Nº FARMS IN BB

■ Nº FARMS PORCINE SPECIES



SPECIE	Nº BREED	Nº ANIMALS IN BB	Nº ANIMALS PORCINE SPECIES	Nº FARMS IN BB	Nº FARMS PORCINE SPECIES
PORCINE	15	1.158.235	29.662.000	9.229	86.615





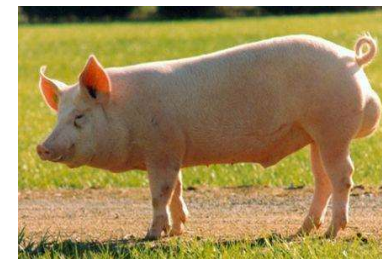
# Porcine sector



Local breeds with add value quality products

+

integrated/hybrid breeds in intensive sistems



Two farm systems in different locations

**MEAT PRODUCTION: 4.059 MT**

**4<sup>TH</sup> WORLD PRODUCER**

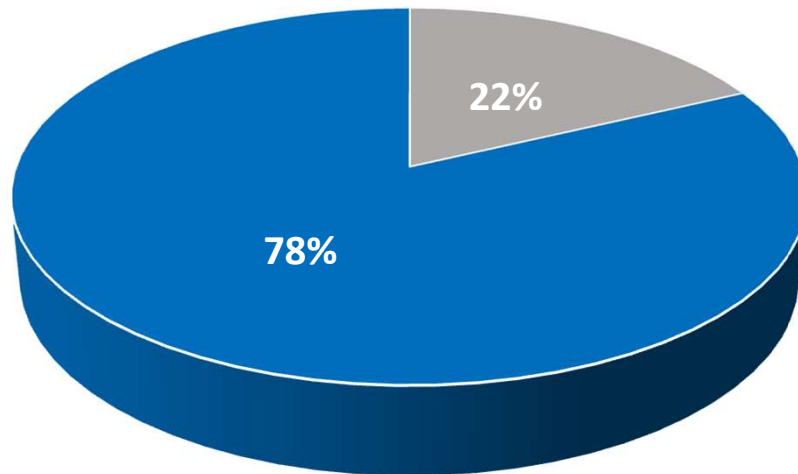
**2<sup>ND</sup> EUROPEAN PRODUCER (MEAT), 1<sup>ST</sup>  
CONSIDERING CENSUS**

**~ 5.965 MILLION € - 36,4% LIVESTOCK  
PRODUCTION**

**177% SELF-SUFICCIENCY**

# Bovine sector

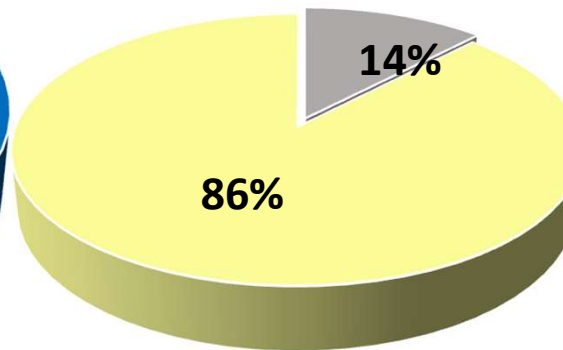
**% PUREBRED BOVINE**



■ Nº ANIMALS IN BB

■ Nº ANIMALS BOVINE SPECIES

**% PUREBRED FARMS**



■ Nº FARMS IN BB

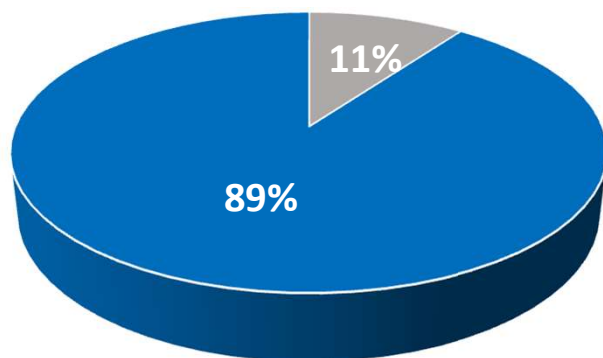
■ Nº FARMS BOVINE SPECIES



SPECIES	Nº BREED	Nº ANIMALS IN BB	Nº ANIMALS BOVINE SPECIES	Nº FARMS IN BB	Nº FARMS BOVINE SPECIES
BOVINE	46	1.451.757	6.623.780	20.424	147.172

# Ovine sector

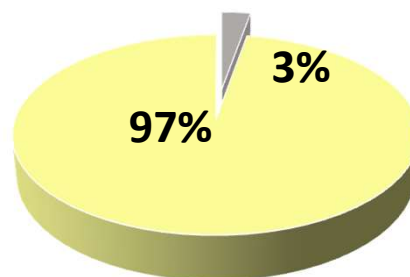
% PUREBRED OVINE



■ Nº ANIMALS IN BB

■ Nº ANIMALS OVINE SPECIES

% PUREBRED FARMS



■ Nº FARMS IN BB

■ Nº FARMS OVINE SPECIES



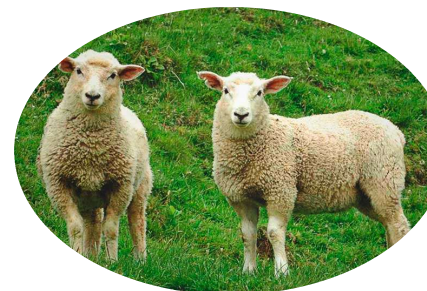
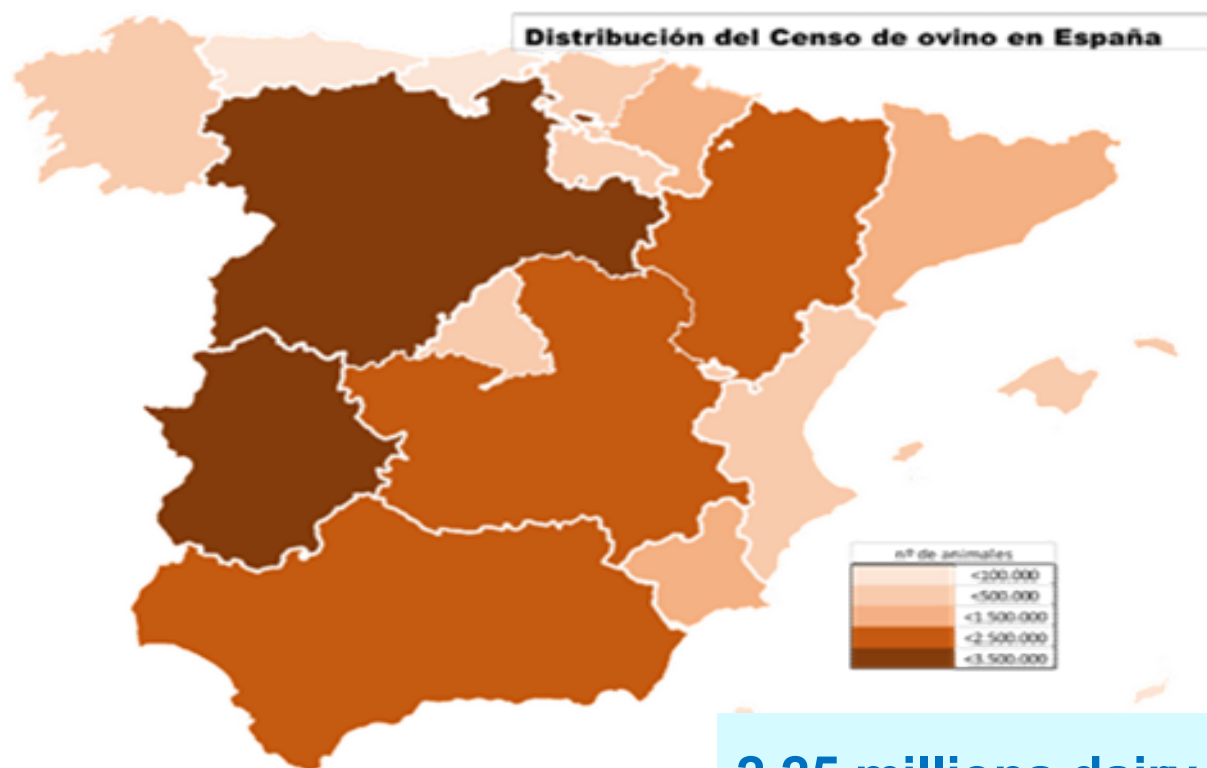
SPECIE	Nº BREED	Nº ANIMALS IN BB	Nº ANIMALS OVINE SPECIES	Nº FARMS IN BB	Nº FARMS OVINE SPECIES
OVINE	52	1.881.661	16.770.926	3.284	114.826



4,1 mill. animals PrP genotyped for resistance to Scrapie



# Ovine sector



## Distribution of farms



**2,25 millions dairy sheep: 544 mill.Liters**

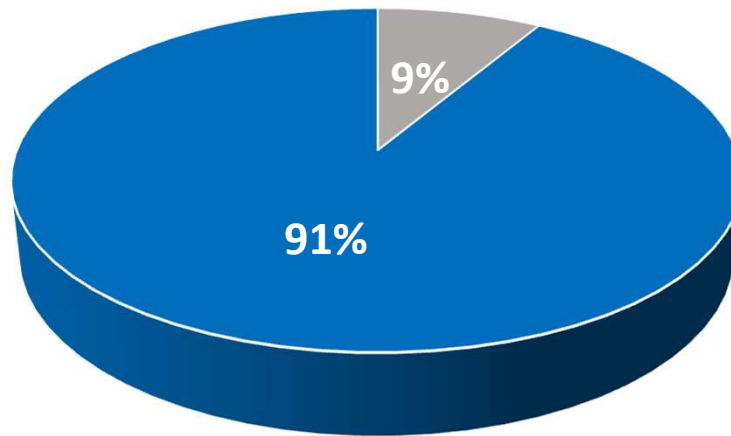
**1,32 millions dairy goats: 507 mill. Liters**

**115 M Tn of sheep meat: Spain is the  
2<sup>ND</sup> producer country in EU**

**10,7 M Tn of goat meat**

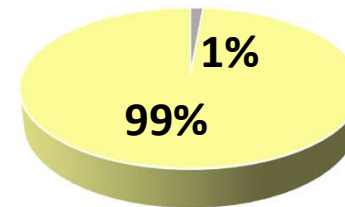
# Caprine sector

% PUREBRED CAPRINE



- Nº ANIMALS IN BB
- Nº ANIMALS CAPRINE SPECIES

% PUREBRED FARMS



- Nº FARMS IN BB

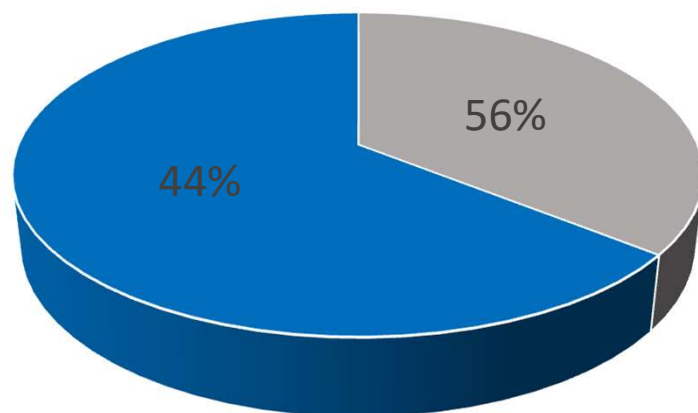


SPECIES	Nº BREED	Nº ANIMALS IN BB	Nº ANIMALS CAPRINE SPECIES	Nº FARMS IN BB	Nº FARMS CAPRINE SPECIES
CAPRINE	22	275.025	2.929.223	1.114	77.299



# Equine sector

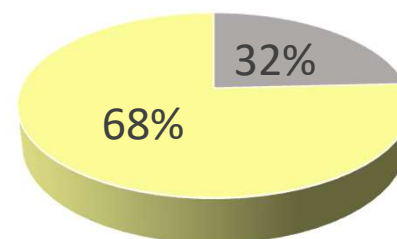
% PUREBRED EQUINE



■ Nº ANIMALS IN BB

■ Nº ANIMALS EQUINE SPECIES

% PUREBRED FARMS



■ Nº FARMS IN BB

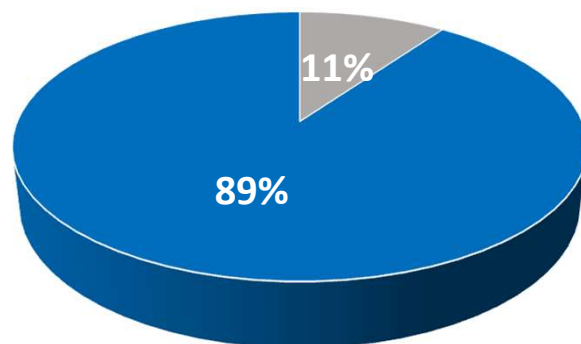
■ Nº FARMS EQUINE SPECIES



SPECIES	Nº BREED	Nº ANIMALS IN BB	Nº ANIMALS EQUINE SPECIES	Nº FARMS IN BB	Nº FARMS EQUINE SPECIES
EQUINE	20	351.361	632.355	58.248	182.202

# Avian specie (Gallus spp.)

% PUREBRED FARMS



- Nº FARMS IN BB
- Nº FARMS AVIAN SPECIES (GALLUS)



SPECIES	Nº BREEDS	Nº ANIMALS IN BB	Nº FARMS IN BB	Nº FARMS AVIAN SPECIES (Gallus spp)
AVIAR (gallus sp)	12	40.615	826	7543



~~9 Directives  
& 26  
Decisions~~

# SPANISH ZOOTECHNICAL LEGISLATION



Reg UE  
1012/2016 +  
development



~~R.D. 2129/2008  
UE+National Plan~~



RD 45/2019  
UE+National  
Plan

- Milk performance (RD 368/2005)
- Subsidies to breed societies (RD 1625/2011)
- Breeding programs STE ovine (RD 21/2013)
- Brand 100% autoctonous breed (RD 505/2013)
- Dog breeds (RD 558/2001)
- Horse sport performance (OM 1018/2003)
- Reproduction and germinal products (RD 841/11)
- Administrative Acts for:
  - Recognition of breed societies
  - Approval of breeding programs
  - Terms of conditions use 100% autoctonous breed
  - Annual calender of performance events and fairs





# RD 45/2019

**It includes lines of National Program for conservation, improvement and promotion of breeds  
+ mentions to aspects of EU animal breeding Regulation**



- National Catalogue of breeds
- Regulation of other species
- National System for information of breeds (ARCA) and data bases
- National Zootechnical Commission with more functions
- National Plan for official controls
- Creation of National network for genebanks
- Regulation of genetic centres and Reproduction Centres
- National Reference Centres
- Promotion measures and support to autochthonous breeds



# NATIONAL PLAN WITHIN THE WORLD STRATEGY (FAO, CDB)

## STRATEGIC PRIORITIES

1. Inventory production, definition of characterization and classification of breeds
2. Promotion of rearing of pure breeds and livestock improvement
3. Animal reproduction and genetics
4. Programmes for institutional development, coordination and CAPACITY creation
5. Management and diffusion of the information
6. Sustainable use and alternative routes for profitability of the breeds and their products
7. Funding



## MEASURES

## ACTIONS



## INSTRUMENTS

### HORIZONTAL INSTRUMENTS

National System of Information

Royal Decree 45/2019

### SPECIFIC INSTRUMENTS



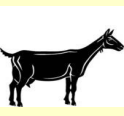






National Commission

Genetic Centres and Laboratories

Reproduction Centres and genebanks

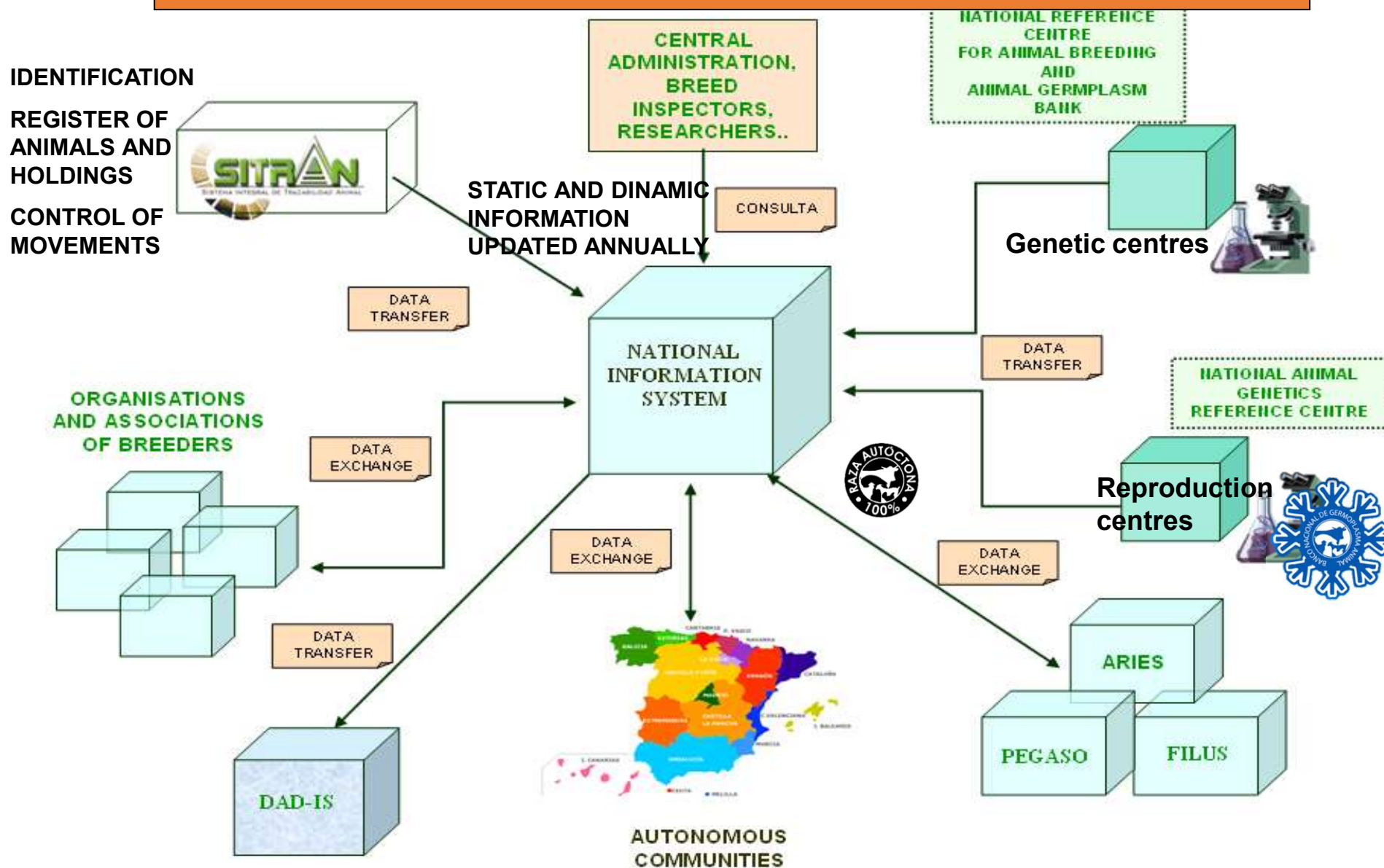
Logo 100% Autochthonous breed



NATIONAL CATALOGUE OF BREEDS AND VARITIES									
BREEDS								 	Total
AUTOCHTONOUS BREEDS IN EXPANSION	8	9	3	3	1	0	1	0	25
AUTOCHTONOUES BREEDS IN DANGER	32	35	19	9	15	6	21	1+2	140
INTEGRATED BREEDS	6	8	0	4	4	0	0	0	22
OTHERS	0	1	0	0	1	0	0	0	2
Total	46	53	22	16	21	6	22	3	189

**168 BREED SOCIETIES TO MANAGE THE BREEDS (58 NATIONAL +110 REGIONAL) + 3 SECOND GRADE UMBRELLA FEDERATIONS**

# NATIONAL INFORMATION SYSTEM: DATA BASES





# USE OF LOGO 100% AUTOCHTHONOUS BREED

50 breeds with terms of condition approved to use the logo

72% CLASIFIED IN DANGER OF EXTINCTION

25



11



10



3



1



## PROGRAMS AND OBJETIVES ON AnGR

- Integrated system based on rational management of grazing resources, preservation of local elements and adapted breeds with good practices (animal welfare, high animal health standards, animal feeding, traceability, labelling and quality products, control residue, efficient water and energy use, sustainability (CAP orientation and post 2020)
- Professionalism, union of sector, new technologies (genomics..), databases (digitalization), Innovation
- New breeding programs: National guide with more participation of breeders and opportunity to look for more effectiveness in the use of resources looking for some profitability
- Add value production system through all the chain
- Awareness and creation of interest in market and society: campaigns and promotion of animal origin products with links to tourism and gastronomy





THANK YOU FOR YOUR ATTENTION!

