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# Gasconne cattle breed in Spain: a model of introduction and establishment of a foreign cattle breed

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Implementation of a “breed-territory-product” trans-border organization (from the genetics to the meat quality) for an economical and sustainable development, in the Pyrenees Area [OTRAC].

- WP 1. : History – Development and current situation of Gasconne breed in Spain (and France).
- WP2. : Genetics, welfare assessment and sanitary breed management
- WP3. : Products quality, consumers acceptability and market segmentation.
- WP4.: Communication/Dissemination

*See list of selected publications*

# Partners

## SPAIN

## FRANCE



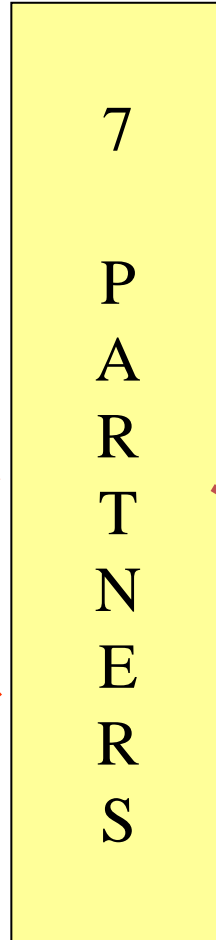
Zaragoza (Aragon)



Zaragoza (Aragon)



Monells (Cataluña)



Villeneuve de Paréage (Ariège)



Foix (Ariège)



Toulouse (Haute-Garonne)

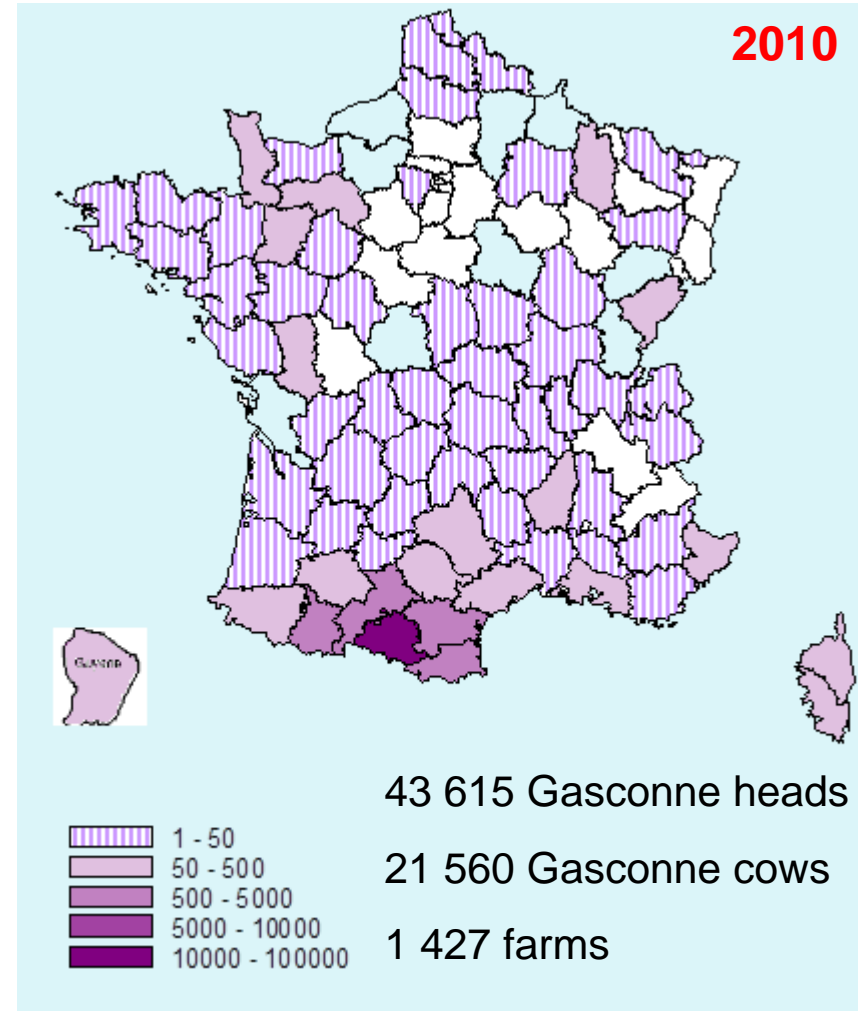


Toulouse (Haute-Garonne)

# Gasconne breed in France



- Rusticity
- Easy calving
- Efficient feed conversion
- Commercial cross breeding

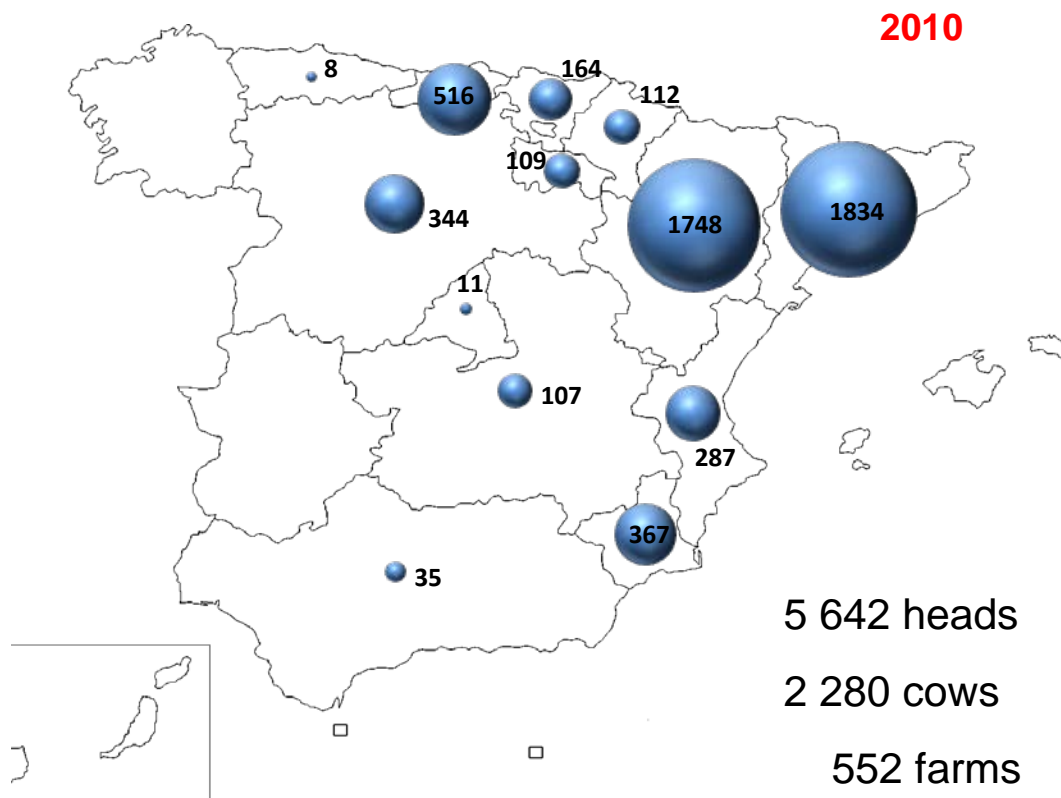


# Main objectives of the programme

Objectives	Needs/Actions
Official recognition of the breed in Spain	<b>History of the breed</b> Characterization of the main production systems Carcass and meat quality assessment
Creation of a Spanish Herd Book (compatible with French one)	<b>Official system to register individual performance data</b> <b>Data exchange procedures</b>
Development of bilateral trade	<b>Harmonization of sanitary status</b> <b>Meat acceptability by consumers of both countries</b> Market segmentation

# Main steps towards an official recognition (1)

- **1980's**: First introduction
- **1990-2000's**: Breeding animals
- **1992**: Catalan breeders ask for a recognition of the breed
- **1998**: Creation of the first breeder association (AGGE)
- **2000**: Official code for the breed (9999 → **56**)



Year	2004	2006	2007	2008	2009	2012	2013
Gasconne heads	4915	5099	5845	5329	5615	5666	5501

## Main steps towards an official recognition (2)

Programme results:

- **2011:** “Reactivation” of the breeder association (AGGE)
- **2011:** AGGE requests to include the Gasconne breed in CORGE as UE breed
- **2013:** ...still awaiting the decision.
- Consequences

RAZA BOVINA  
GASCONA

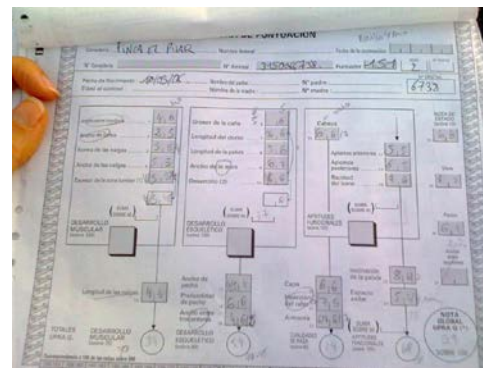
SOLICITUD DE INCLUSIÓN DE  
UNA RAZA DE LA UNIÓN  
EUROPEA EN EL CATÁLOGO  
OFICIAL DE RAZAS DE GANADO  
DE ESPAÑA

Asociación de Ganaderos de la raza  
Gascona en España  
A.G.G.E.  
Abril 2011



## Building a national registration system for individual data

- To assess morphological and functional characteristics
- To record individual performances:
  - Birth conditions (calving ease score)
  - Birth declaration
  - Pedigree certification
  - Weight at birth, 120 and 210 days



Context	Actions
Farms located in different regions	Need to collaborate with several regional institutions working with other breeds
Absence of a national technical body (and trained technicians)	Design of a single evaluation protocol Training programme
Lack of technical and economic resources	Purchase of scales (farm and regional level)
Lack of collect and management of the data	AGGE as an interface between Spanish breeders and Groupe Gascon



## To promote the bilateral trade

- Breeding animals → sanitary status assessment (4 Spanish regions)
  - ✓ Animal health regulation
  - ✓ Design and implementation of a sanitary protocol to allow SP→FR exchanges
- Non breeding animals → marketing categories and meat acceptability

Spain		France	
« Ternera »	8-12 months Intensively fed Slaughtered in Spain	« Broutard »	6-9 months – Non fattened Exported in Italy, Spain, Greece (-> young bulls)
« Añejo »	12-24 months Intensively fed Slaughtered in Spain	Heifers Beef	28 months 36 months Slaughtered in France High quality product
(Culled cows)	-	Culled cows	> 6 years Slaughtered in France

- ✓ Sensorial analysis (4 regions) and Willingness to Pay for each category

# Conclusion

- Join program based on:
  - ✓ Participative approach (scientific/stakeholders)
  - ✓ Close link between breed, products and territory
- Key lessons:
  - ✓ Official registration of a foreign breed is a long process
  - ✓ Lack of national schedule can make it more difficult (especially for rare breed)
  - ✓ A strong involvement of farmers is a key success factors
  - ✓ External economic support may be needed to initiate the process.
- Perspectives

# Selected publications (1)

- WP1: History – Development and current situation of Gasconne breed in Spain (and France)

Guerrero A, Sañudo C, Mateos JA, Campos MM, Caillaud S, Sepulveda WS, Santolaria P. 2010. Razones de elección de las razas bovinas de carne en dos países diferentes: el caso de la raza bovina Gasconne. II Congreso Nacional de Zootecnia, pp 150-153. Lugo, Spain.

Guerrero A, Sañudo C, Mateos JA, Olleta JL, Gajan JP, Santolaria P. 2011. Gasconne breed management in France and Spain. 61st Annual Meeting of the European Association for Animal Production, pp 194, Heraklion, Greece.

Guerrero A, Sañudo C, Mateos JA, Campo MM, Caillaud, S, Toustou, J, Santolaria, P. 2011. Beliefs about the same breed, and comparative with other cattle beef breeds, by breeders from two different countries. 61st Annual Meeting of the European Association for Animal Production, pp 195, Heraklion, Greece.

Guerrero A, Sañudo C, Mateos JA, Caillaud S, Sepúlveda WS, Toustou J, Gajan JP, Santolaria P. 2012. Gasconne beef breed, an explorative study of trans-border differences in management and commercialization. Iranian Journal of Applied Animal Science, vol 2 (Issue 3), 257-264.

- WP2.: Genetics, welfare assessment and sanitary breed management

Miranda de la Lama G.C., Guerrero A., Pascual-Alonso M., Albertí P., Alierta S., Sans P., Gajan G.P., Villarroel M., Dalmau A., Velarde A., Campo M.M., Santolaria P., Sañudo C, Maria G.A. 2013. Influence of social dominance on welfare, production and meat quality of young beef bulls. Meat Science 94, pp 432-437.

Ripoll, G, Albertí, P, Panea B, Campo, MM, Guerrero, A, Olleta, JL, Sañudo, C, Santolaria P. 2011. Parametros productivos y calidad de la canal de la raza gascona. AIDA (2011) XIV Jornadas sobre Producción Animal, Tomo II, pp 655-557. Zaragoza, Spain.

## Selected publications (2)

- WP3. : Products quality, consumers acceptability and market segmentation.

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Guerrero A, Albertí P, Sañudo C, Campo MM, Olleta JL, Panea B, Ripoll G, Monge P, Santolaria P. 2011. Efecto del sistema de producción previo al cebo sobre la calidad instrumental de la carne de vacuno. AIDA (2011) XIV Jornadas sobre Producción Animal, Tomo II, pp 661-563. Zaragoza, Spain.

Guerrero A, Sañudo C, Albertí P, Campo MM, Olleta JL, Resconi V, Panea B, Ripoll G, Santolaria P. 2011. Efecto del sistema de producción previo al cebo sobre el perfil de ácidos grasos y calidad sensorial de la carne de vacuno. AIDA (2011) XIV Jornadas sobre Producción Animal, Tomo II, pp 664-566. Zaragoza, Spain

Guerrero A., Sañudo C., Albertí P., Campo M.M., Santolaria P. 2012. Efecto del sistema de producción previo al acabado sobre la calidad de la carne de vacuno. INVAC. IV Congreso Nacional de la carne de vacuno, 43-46. Madrid, Spain.

Sans P, Panella-Riera N, Khliji S, Gil M, Blanch M, Campo MM, Sañudo C, Sanjuan AI, Oliver MA. 2012. Evaluation sensorielle de viandes issues de race gasconne: une comparaison dans les régions frontalières au Nord et Sud des Pyrénées. 14èmes Journées Sciences du Muscle et Technologie de la Viande (Hors série revue Viande et Produits Carnés), Caen, 13-14 Novembre 2012, p 153-154.

Sanjuan AI, Resano H, Zeballos G, Sans P, Panella-Riera N, Campo MM, Khliji S, Guerrero A, Oliver MA, Sañudo C, Santolaria P. Consumers' Willingness to Pay for beef direct sales. A regional comparison across the Pyrenees. *Appetite*, 58, 1118-1127.

Sanjuan A, Resano H, Sans P, Panella N, Campo MM, Khliji S, Oliver MA, Sañudo C, Santolaria P. 2011. The role of brands for consumers across the pyrenees. 57th International Congress of Meat Science and Technology (ICOMST), book of abstract pp Ghent, Belgium.

Sanjuan A, Resano H, Sans P, Panella N, Campo MM, Khliji S, Oliver MA, Sañudo C, Santolaria P. 2011. Consumers WTP for beef direct sales. A regional comparison across the Pyrenees. XIIIth Congress of the European Association of Agricultural Economists, book of abstract pp 179, Zurich, Switzerland.



**ANY  
QUESTION?**

**THANK YOU  
FOR YOUR  
ATTENTION!**

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