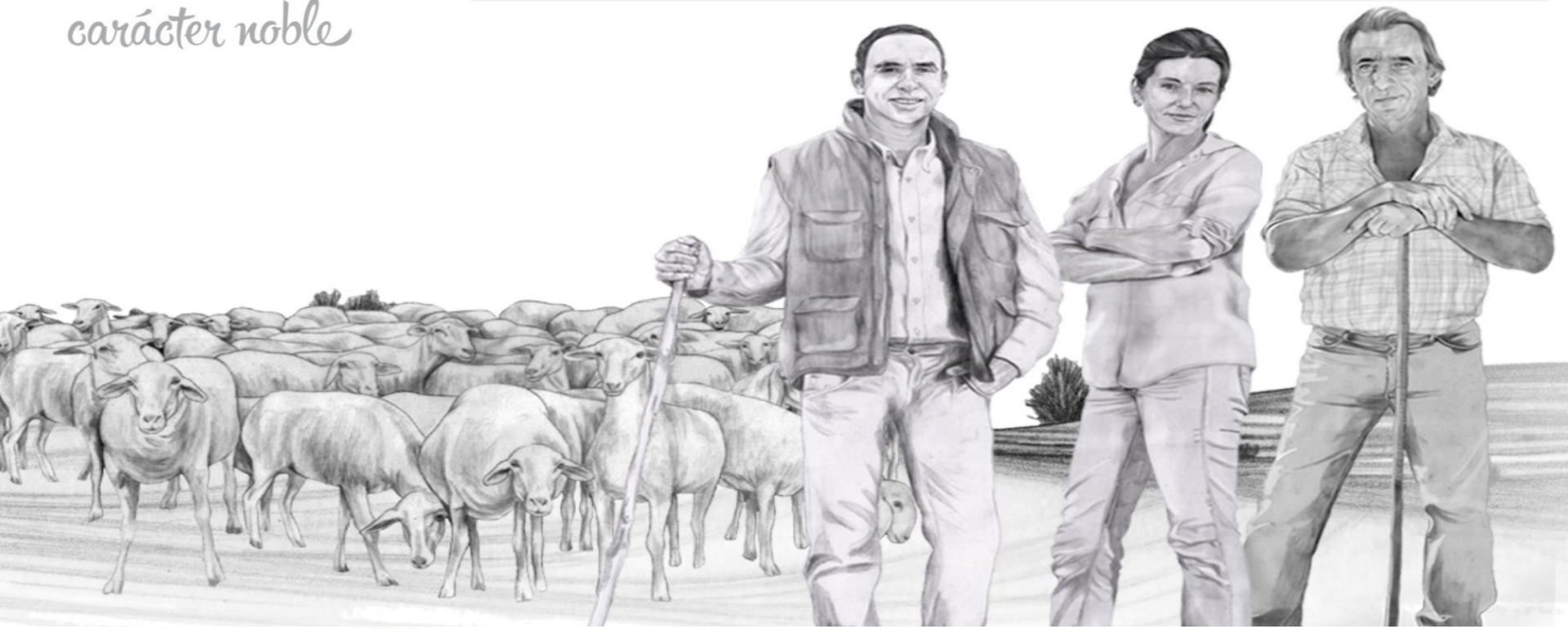
Oviaragón

pastores
grupo cooperativo
carácter noble

MANAGEMENT OF HIGH PROLIFICACY GENES IN MEAT SHEEP:

The ROA allele



iSAGE

CIHEAM
IAM ZARAGOZA

iSAGE Training Course and Workshop

INNOVATIONS TO IMPROVE SUSTAINABILITY IN THE SHEEP AND GOAT SECTOR
(Zaragoza, Spain, from 10 to 13 December 2019)

Rasa Aragonesa Breed

…. Rasa Aragonesa is a local meat sheep breed raised in extensive systems in Aragón

Phenotypic Prolificicy = 1,37 lamb/birth (17th catálogo selección Upra)

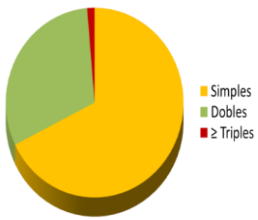
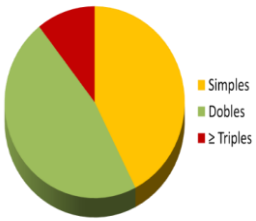
Heritability = 0,034 (Jurado et al.,2008)

Profit function - Profitability factors

Prolificacy improving is a Good way to increase the Gross Margin

Increase of 1% in:	Gross Margin Change for sheep	Gross Margin change for UTA
N° births for sheeo and year= X_2	+ 3,0%	+ 3,0%
Prolificacy = X_3	+ 3,4%	+ 3,4%
% Lambs mortality= X_4	- 0,6%	- 0,8%
Average prize of the sold lamb= X_5	+ 3,6%	+ 4,3%
€ for feeding for sheep and year= X_6	- 2,6%	- 2,7%
Total laboral cos = X_7	- 1,2%	

2007 Year: FecXR ALLELE OF BMP15 GENE

	No ROA	ROA
Sin tratamiento	1,34 	1,71 

♀ $X X^R$ **+0,36 lambs/birth**

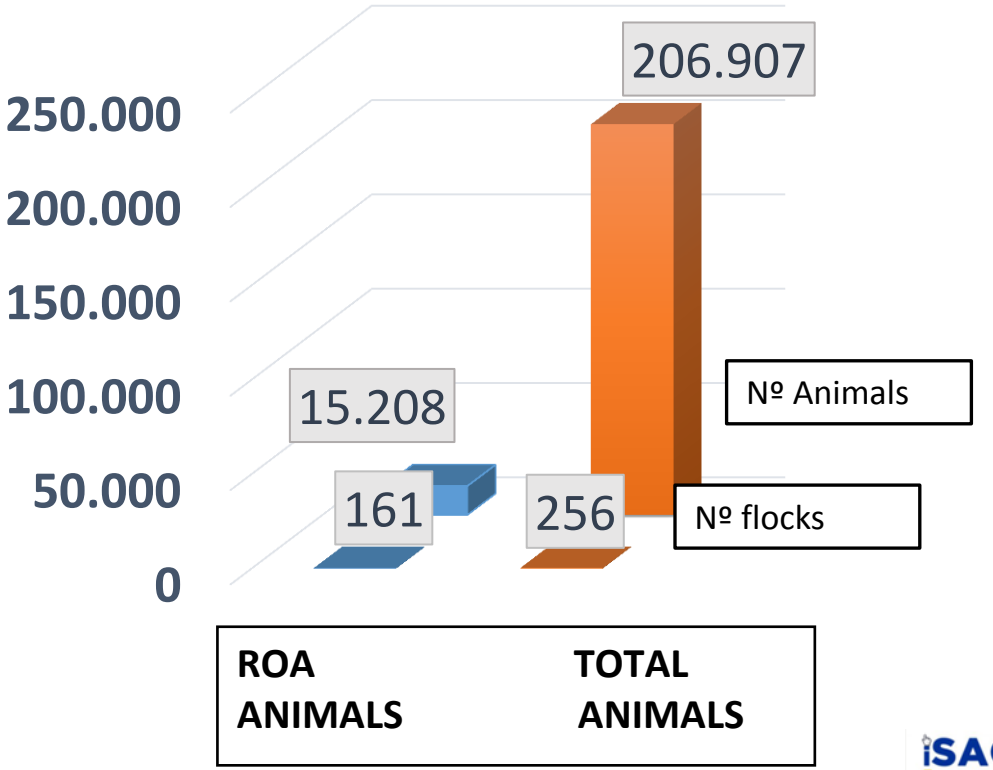
♀ $X^R X^R$ **STERILITY**

♂ $Y X^R$ **MALE R®**

Disseminate the allele across interested farms

AI

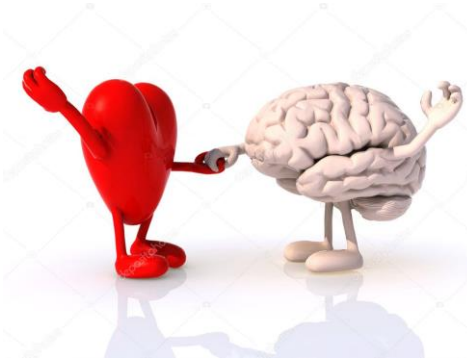
RAMS

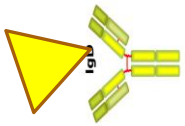


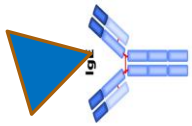
Participatory research and techanology transfer

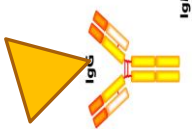
General Idea : Innovation

Concret solutions



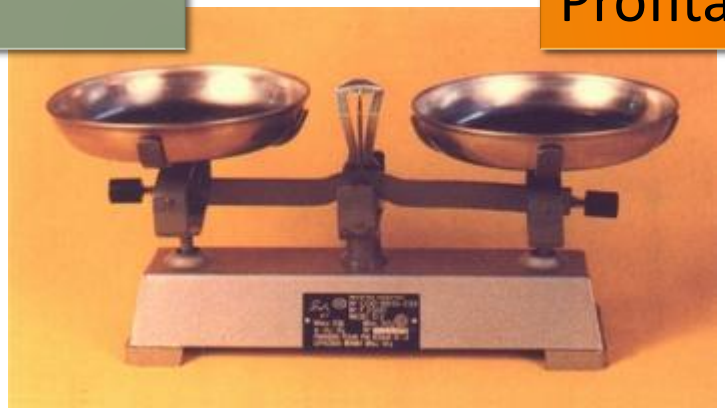






Posibility

Profitability



Drivers and constrains for a successful implementation of the innovation

A GOOD GENETIC MANAGEMENT IS CRITICAL BECAUSE HOMOZYGOSITY RESULTS IN STERILITY.

KEY FACTORS ARE:

1-THE IDENTIFICATION OF ANIMALS CARRYING THE ALLELE

2-STRICT CONTROL OF PROGENY

3-RECORDING OF PRODUCTION DATA

4-WELL-ESTABLISHED HERD BOOK

5-GENETIC ANALYSIS OF ALL MALES

Thanks for your attention !!