

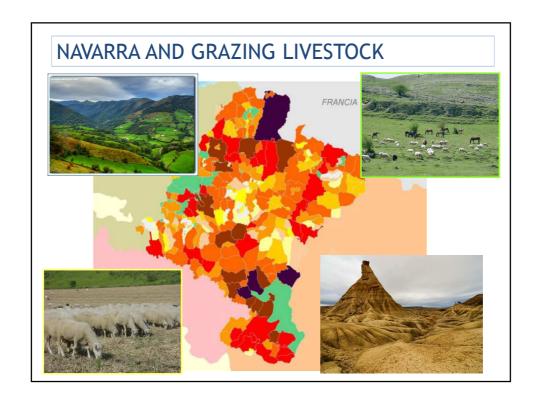


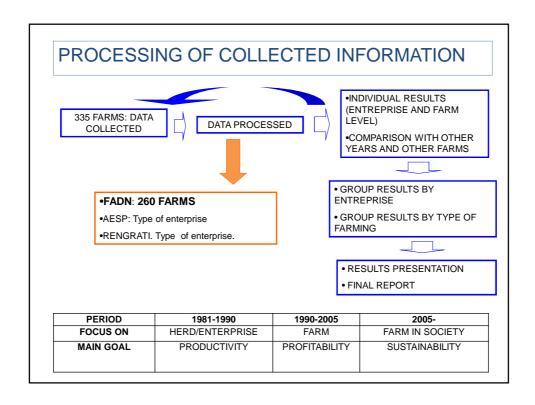
GRAZING LIVESTOCK IN THE REGION OF NAVARRA(SPAIN). ECONOMIC RESULTS AND DEVELOPMENT OF A TOOL TO DIAGNOSE SUSTAINABILITY

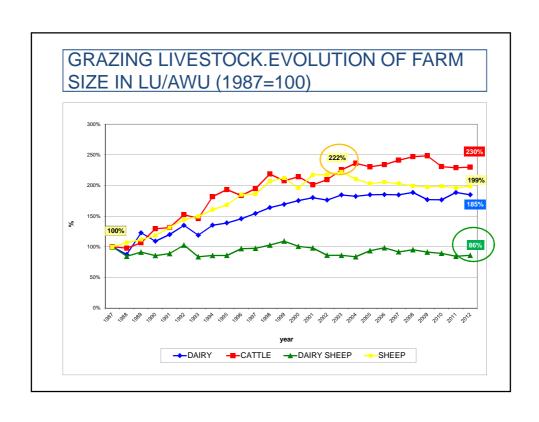
APPLICATION TO DAIRY SHEEP

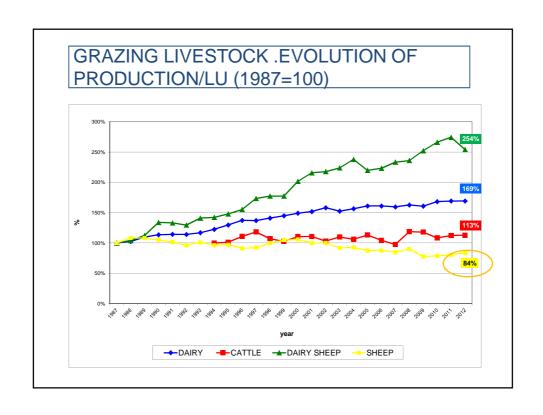
J.M. Intxaurrandieta, P.Eguinoa, J.M.Mangado

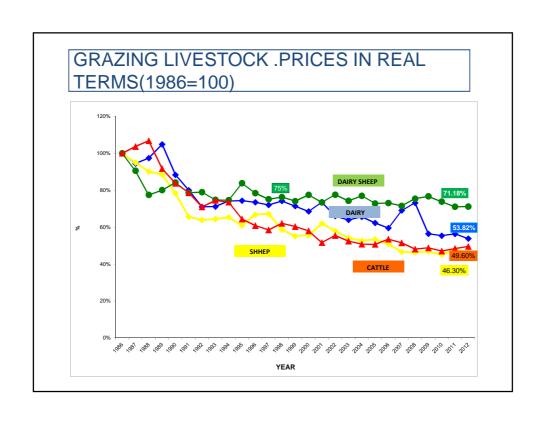
PACIOLI 21 Sweden, 22<sup>nd</sup>-25<sup>th</sup> of September 2013

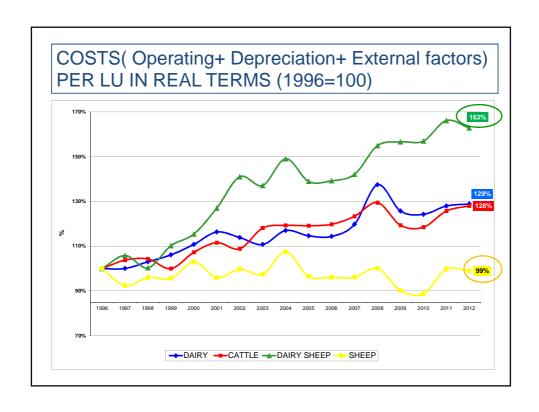


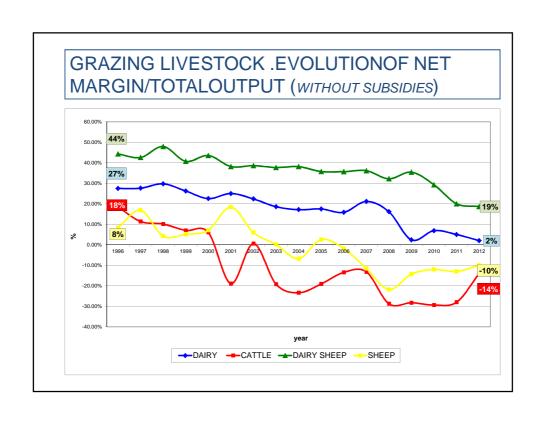


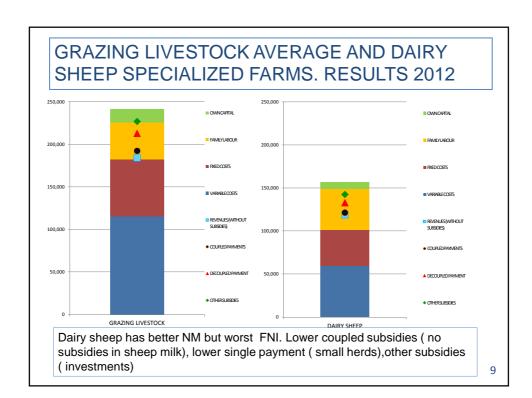








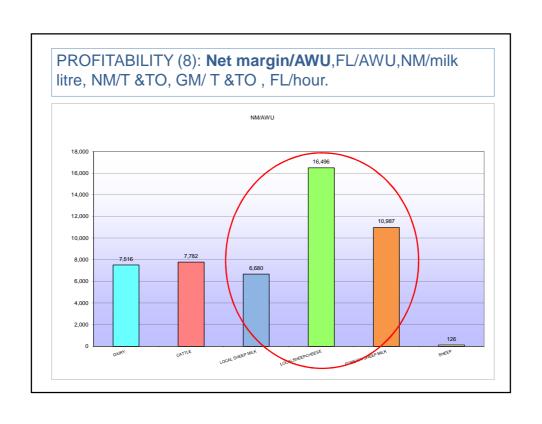


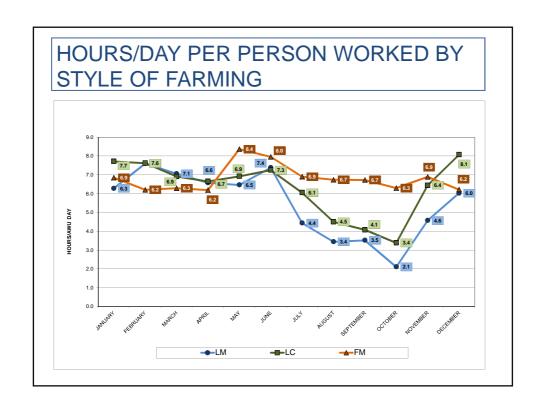


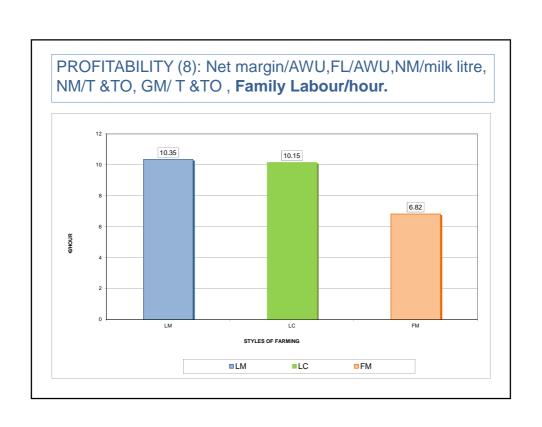
## SUSTAINABILITY IN DAIRY SHEEP

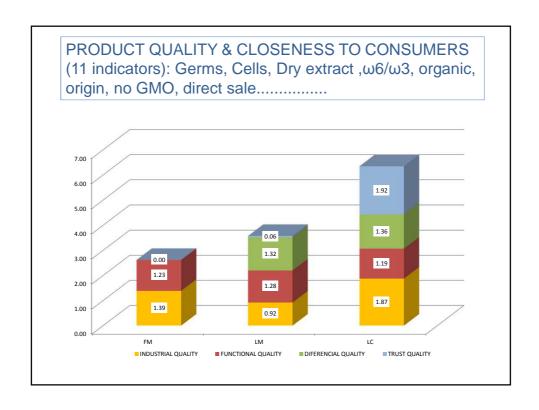
- ✓ NAIA: Nekazaritzako Adierazleak Iraunkortasuna Aztertzeko
- ✓ Economically small but: local breeds vs foreign breeds, extensive vs intensive management, purchased concentrates vs pasture based feed, peasant knowledge vs modernisation, "commodities" vs differentiated products, artisan production vs industrial, direct sales or short distribution channels vs large shopping centres.
- √It's the only type of farming where on farm processing and direct sale is relevant.
- ✓ Production without European specific policy
- √ Established mainly on less favoured areas
- ✓ Milk used for two cheeses with geographical indication.
- √Three different strategies are used by farmers:
  - LM: Local breed (Latxa), milk sold to industries.
  - LC: Local breed(Latxa),on farm cheese processing and direct sale.
  - FM: Foreign breeds (Assaf and Lacaune), milk sold to industries.

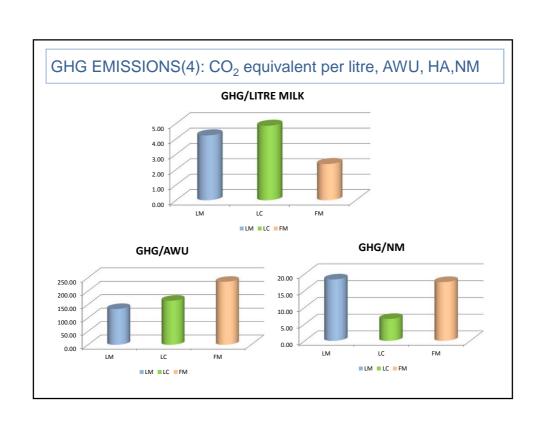
ECONOMIC: 27	SOCIAL: 66	CIAL: 66		ENVIRONMENTAL: 43	
Autonomy	Farm ownership	I N		Livestock and territorial base	
Risk and diversification	Generation of Employment	T		Land management	
Costs	Quality of life	R N		Nutrient balance	
Stability	Quality of labour	A		Effluent management	
Profitability	Gender indicators	L		Landscape and Biodiversity	
	Animal welfare	E X		Energy	
	Environment valuation	T E R		GHG emissions	
	Product quality and	N A			
	closeness to consumers	L			

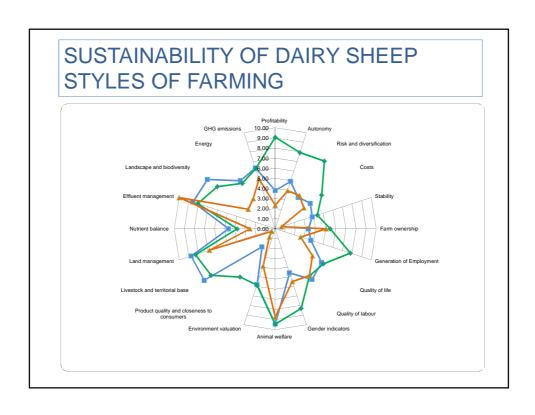












## THANK YOU