

#### Regional restructuring and modernization of Bulgarian dairy sector after the accession to the EU



### INTRODUCTION

After 2007, the dairy sector is facing a number of problems:

Ack of a clear, long-term national policy for development of the sector

>poor institutional and personnel training
>low administrative capacity in funds management
>limited acquisition of European funds for
restructuring and modernization of dairy farms.

### The aim of this study is

to analyze the condition and the main problems of restructuring and modernization of the dairy sector after the accession of the country to the EU and the effect they have on the economic status of dairy farms in regional aspect.

# Methodology and data

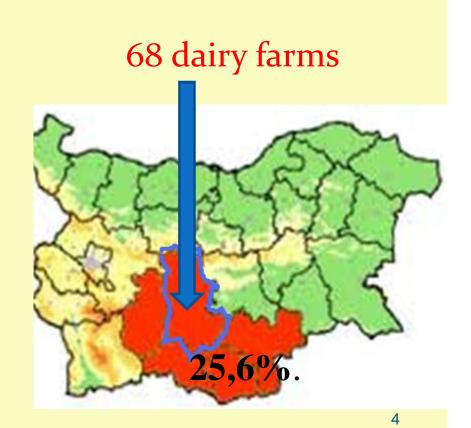
#### **Indicators**

- number of dairy cattle;
- average yield of milk ;
- volume of production;
- size and structure of dairy farms.

sole proprietors (SP) 45%.

one-man limited companies (Ltd.) 22%

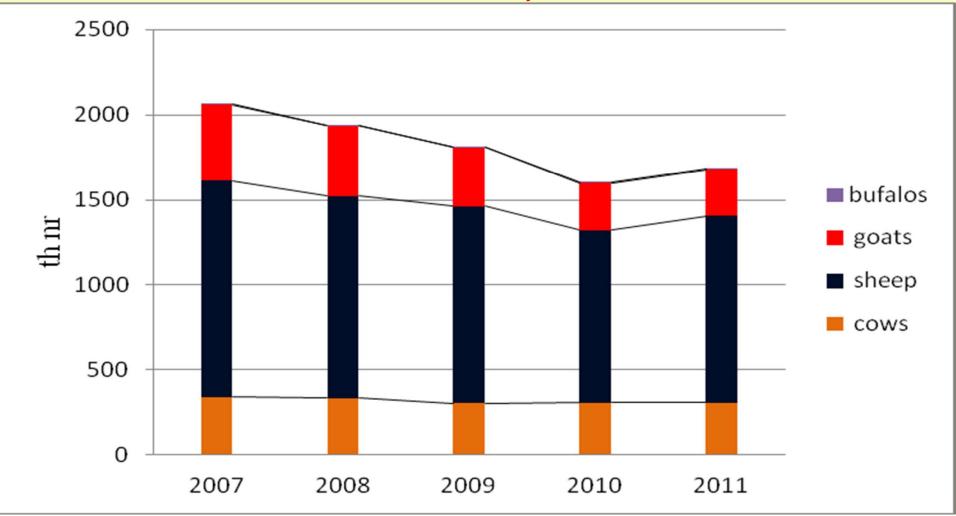
limited liability companies (LLC). 33%



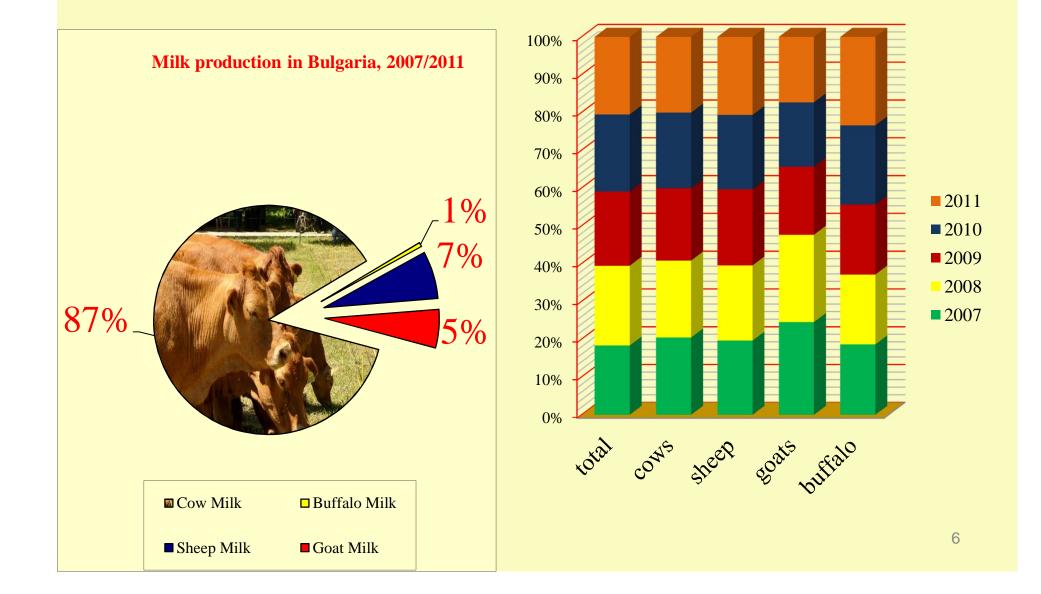
#### **Results and discussion**

#### **Milk Production**

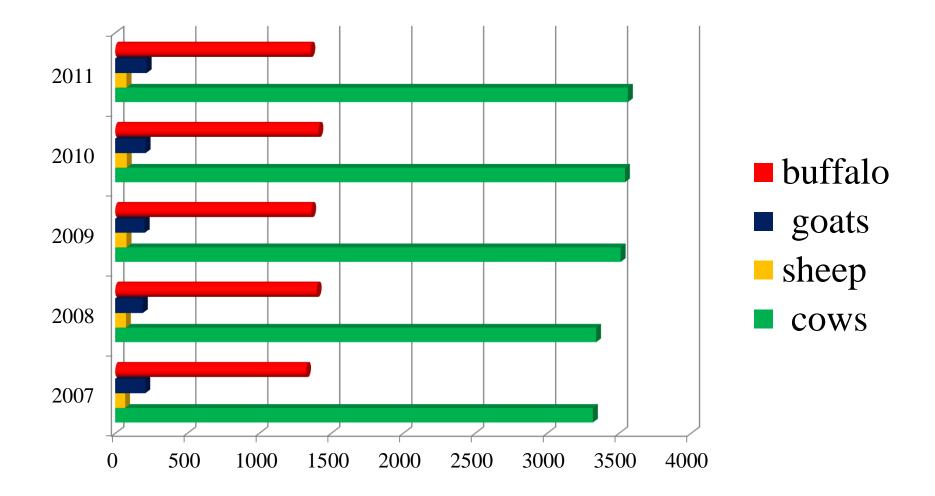
Number of dairy cattle



### Milk production

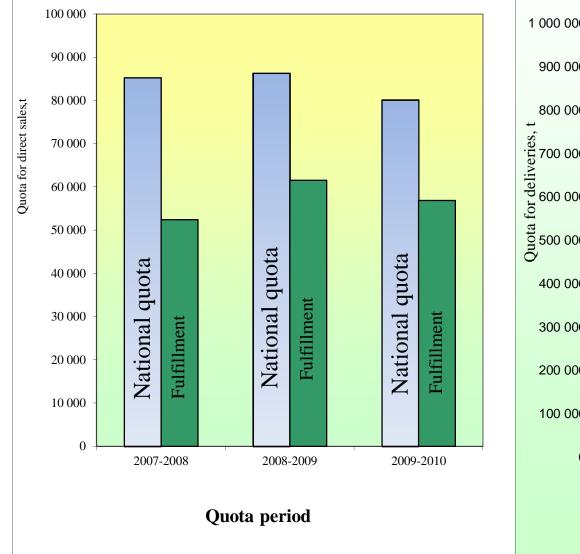


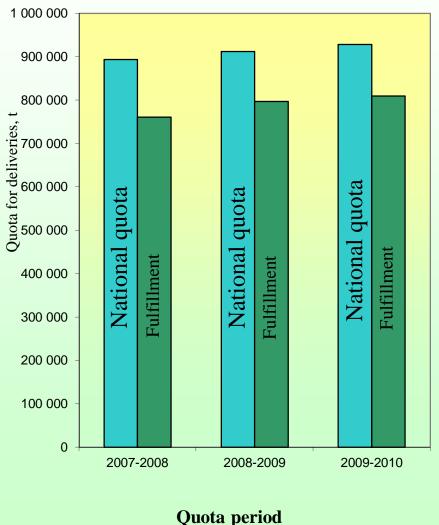
# Milk yield



### Fulfillment of the national quota for direct sales

### Fulfillment of the national quota for supplies





#### Structure of dairy farms-features and problems CHANGE IN THE NUMBER AND SIZE OF DAIRY FARMS

	Alteration,%		Alteration,%		Alteration,%		Alteration,%		Total				
Type	farm	head	farm	head	farm	head	færn	head	farm	head			
	1-2		3-9		10-19		20and >						
2008/2007													
Cows	-13,8	-13,1	-14,8	-13,5	-8,5	-6,8	9,4	9,8	-13,4	-6,3			
Buffalos	-7,6	-10,1	12,2	37,5	15,1	16,7	-13,2	-4,7	-2,8	3,1			
2010/2009													
Cows	-20,3	-20,9	-18,7	-20,4	5,2	-0,2	48,9	39,2	-17,5	3,8			
Buffalo	21	22,2	-26,8	-36,9	49,1	48,6	-8,3	3,2	10,9	8,2			
2008/2007													
Goats	1-9		10-49		50-99		100 and >						
	-18,1	-19,0	-18,8	-20,5	40,6	50,3	8,5	17,3	-17,9	13,2			
Sheep	-13,0	-14,7	-10,3	-10,9	-15,1	-14,2	21,8	22,3	-11,9	-3,7			
2010/2009													
Goats	-12,2	-10,4	-24,7	-24,7	-23,5	16	-17,6	-15	-12,4	-9,2			
Sheep	-7,7	-7,7	-25,5	-26,3	-18	-22	16,8	12,4	-9,3	-3,6			

	Dairy farms						
Variable-Criteria and indicators	Total	Sole Proprietor(S L)	Ltd.	LLC 0,968**			
Number of cows	0,794**	0,448*	0,811**				
Total production, 1	0,849**	0,520*	0,948**	0,883**			
First criter	rion - averag	e number of staf	f				
Total employed in the farm	0,924**	0,823**	0,958**	0,632*			
Of which, management staff	0,876**	0,879**	0,932**	0,811**			
Age of 15 to 35	0,639**	0,001	0,823**	0,619*			
Age of 36 to 55	0,613**	0,613** 0,946**		0,331			
Aged above 56	0,246	-0,162	0.211	-0,028			
Men	0,461*	0,179	0,493*	0,238			
Ladies	0,476**	0,118	0,511*	0,093			
Work experience to 15 years	0,838**	0,096	0,913**	0,638*			
Work experience from 16 to 35	0,506**	0,941**	0,458*	0,311			
Work experience above 36	0,060	-0,168	0,104	0,017			
	rion – qualif	ication of person	nel				
Bachelor	0,513**	0,291	0,836**	0,823**			
Master's degree	0,726**	0,394*	0,948**	0,996**			
Experience in the specialty to 15	0,838**	0,428*	0,794**	0,832**			
Experience in the specialty from 16 to 35	0,643**	0,933**	0,583*	0,611*			
Work experience above 36	-0,244	-0,781**	-0,482*	0,033			
Specializations in the country	0,402*	0,000	0,584*	0,961**			
Specialized trainings abroad	0,658**	0,000	0,631*	0,994**			
English speaking	0,546**	0,179	0,611*	0,843**			
Third ci	riteria - Lab	or Productivity					
Gross Output / lev	0,690**	0,244	0,828**	0,624*			
Gross Output per employee / lev	0,378*	0,490÷	0,346	0,244			
Gross Output per man / lev	0,475**	0,232	0,581*	0,390			
Fourth criteri	ia - Payment	and incentives la	abor				
Primary payment and benefits, lev.	0,749**	0,956**	0,638*	0,548*			
Additional incentives, lev	0,499**	0,330*	0,548*	0,811**			
Observations, %	100	45	22	33			

## Conclusion

- All decisions taken in the dairy sector after 2007 are resultant from the new organizational, market economy environment after the accession to the EU.
- Restructuring and modernization of the dairy sector is going at a slow pace due to delayed administrative measures and government support, especially for the farms of the first and second groups. The slow pace of the process of enlargement of farms is expected to be kept for the next few years.
- Though the period for unification of the standards for cow milk quality in accordance with European requirements was extended, modernization of small-sized farms did not take place as anticipated.
- The educational and qualification level, as well as the remunerations of dairy farm employees will be of decisive significance for acceleration of the processes of restructuring and modernization in dairy farms.

# Thank you!