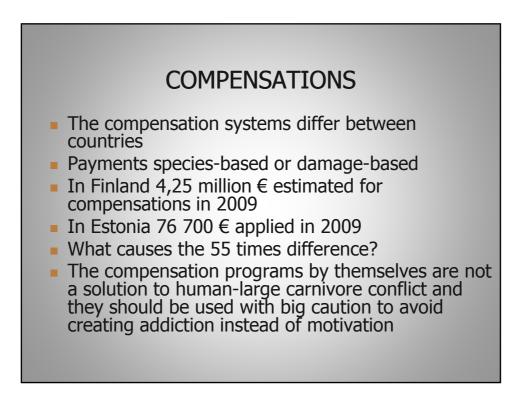


Domestic animals killed by wolves in
Estonia 2004-2008 (P. Männil, M.
Kübarsepp 2008)

Year	Dogs	Sheep	Cattle
2004	59	106	3
2005	16	90	3
2006	8	53	1
2007	13	90	1
2008	5	280	4



NON-LETHAL PREVENTIVE MEASURES

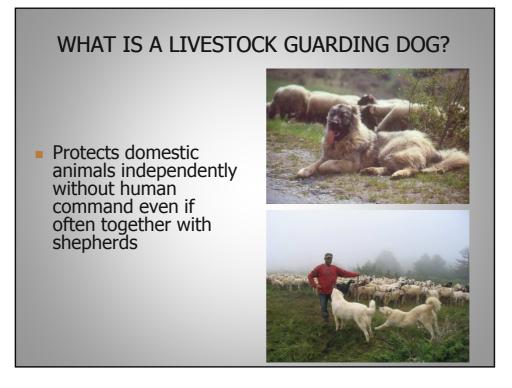
- Shepherds
- Wolf-phone service
- Anti-predator fences
- Protection vests
- Electrical devices
- Livestock Guarding Dogs

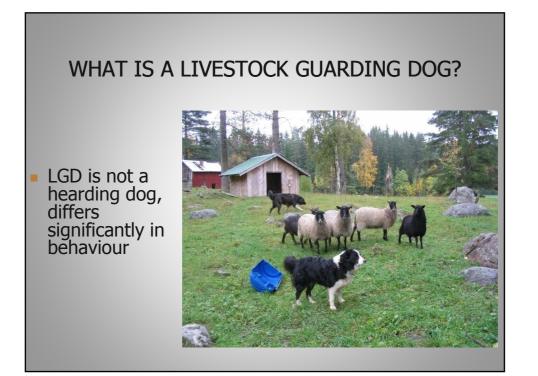


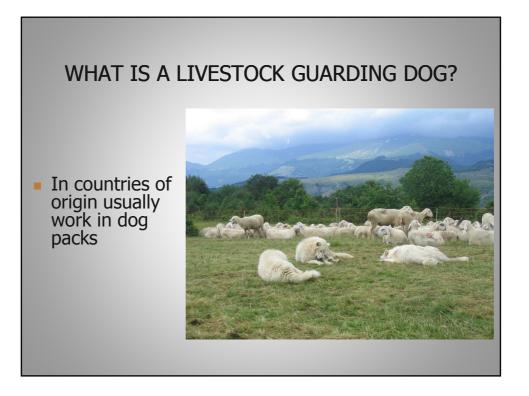
WHAT IS A LIVESTOCK GUARDING DOG?

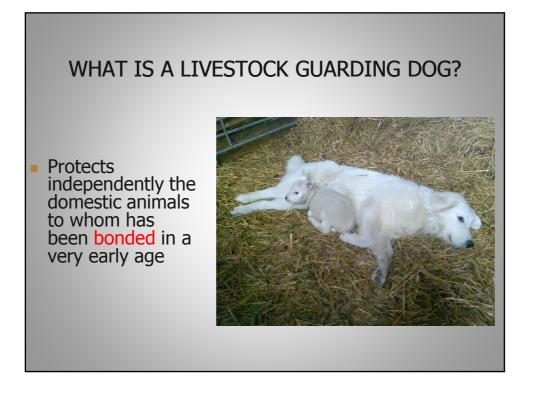
- LGD, Livestock Guarding Dog, Livestock Protection Dog
- Has been used in Asia and Europe for thousands of years

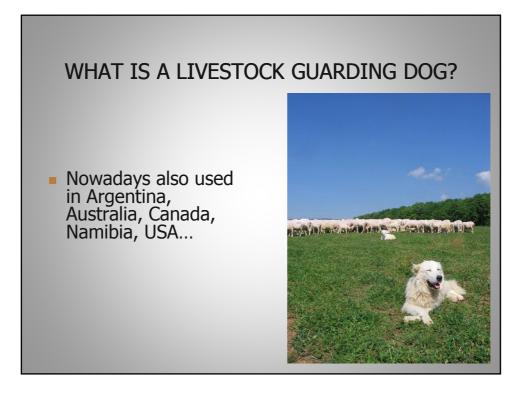








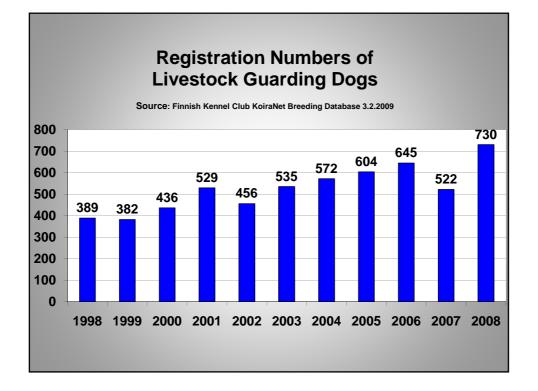


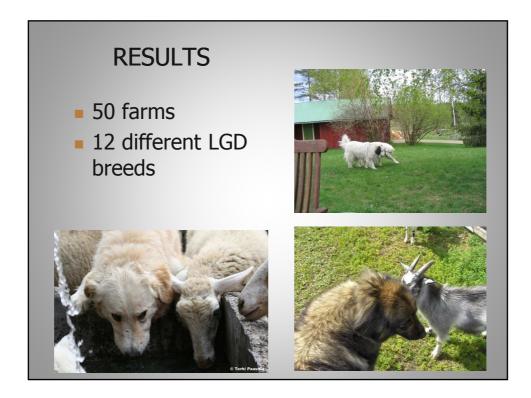


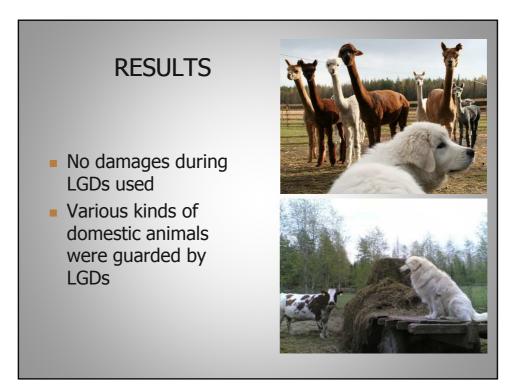


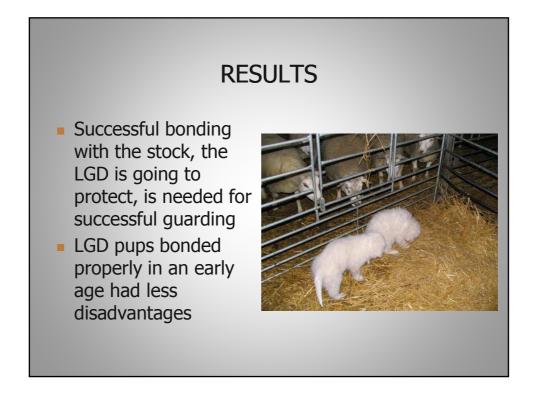


												Yhteens
Rotu	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	kp
Pyreneittenmastiffi	76	44	62	62	42	51	105	94	96	91	152	87
Tiibetinmastiffi	59	70	77	71	49	94	89	64	96	65	118	852
Pyreneittenkoira	19	39	50	78	42	105	94	101	104	60	112	804
Kaukasianpaimenkoira	53	58	79	53	99	78	73	119	103	63	91	869
Estrelanvuoristokoirat	44	58	39	62	72	30	70	42	74	37	86	614
Owczarek podhalanski	21	16	1	25	35	39	44	56	55	45	48	385
Slovakiancuvac	17	11	12	12	15	20	17	19	21	13	34	19:
Keskiaasianpaimenkoira	28	25	33	68	31	45	16	39	38	27	22	372
Maremmano-abruzzese	5	3	8	20	19	22	3	18	17	30	20	16
Kuvasz	24	22	7	19	8	21	26	26	1	32	12	198
Espanjanmastiffi	28	14	51	13	25	13	11	2	19	23	12	21:
Komondor	6	5	7	12	0	4	0	6	0	5	10	5!
Sarplaninac	9	9	8	16	7	1	10	0	4	5	9	78
Etelävenäjänpaimenkoira	0	8	2	18	11	12	14	18	16	26	4	129
Anatolianpaimenkoira	0	0	0	0	1	0	0	0	1	0	0	
Yhteensä kpl	389	382	436	529	456	535	572	604	645	522	730	580









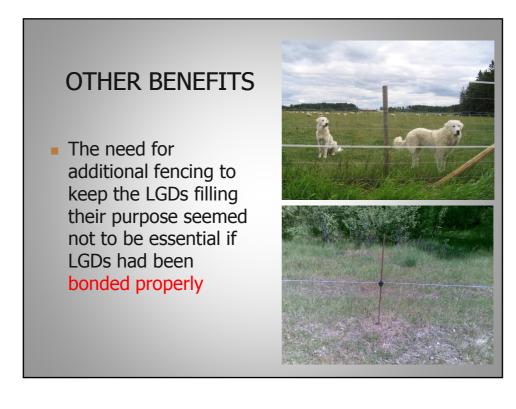


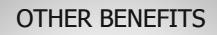
- Termination of elk (*Alces alces*) damages to pasture fences
- Termination of whitetailed deer (*Odocoileus virginianus*) damages to horticultural plants
- Worth to use against wild boar (Sus scrofa) predation on crops in Estonia











- LGDs were interlinked with improved quality of life in rural areas and development of rural tourism
- Does the guarding job improve the health and welfare of LGDs?



PROBLEMS

- How to raise the knowledge about using livestock guarding dogs for work among dogbreeders and farmers?
- There is a need for educational and advising projects based on research to fulfill the lack of knowledge

