

Organic and Low Input Farming Systems in Eastern Europe



IUNG-PIB

Jaroslaw Stalenga

*COST Exploratory Workshop,
Brussels , 30.11.2009*

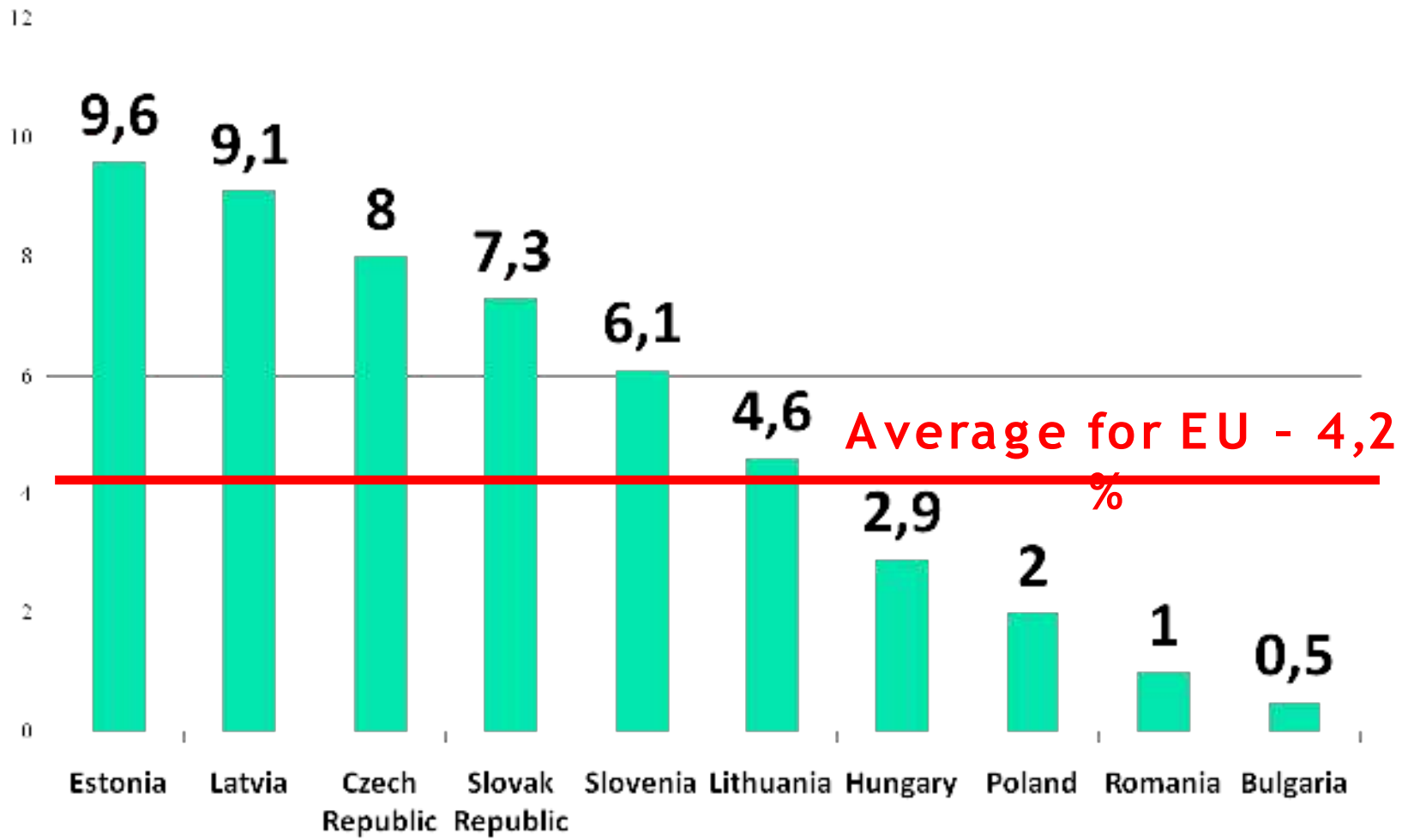
Presentation content

- 1. Development of Organic Farming in Eastern Europe**
- 2. Development of Organic and Low-Input Farming in Poland**
- 3. Future of Organic and Low-Input Farming in Eastern Europe**



1. Development of Organic Farming in Eastern Europe

Share (in %) of organic agricultural lands in 10 Eastern European countries (2007-2008)



Organic farming in the Czech Republic (2007)*

Number of farms - 1318

Area - 314 tys. ha (7,4% AL), of which:

Arable lands 30 tys. ha -
9,4%

Grasslands 258 -" - -
82,4% !


Orchards 2 -" - -
0,6%

Other 24 -" **15 % of all organic farms cover 2/3 of all organic area**
7,6%

Farm size	Number	% AL
to 10 ha	208	0,2
10 - 50	345	3,0
50 - 100	219	5,2
100 - 500	335	26,0
500 - 1000	130	30,7



Organic farming in Slovakia (2007)



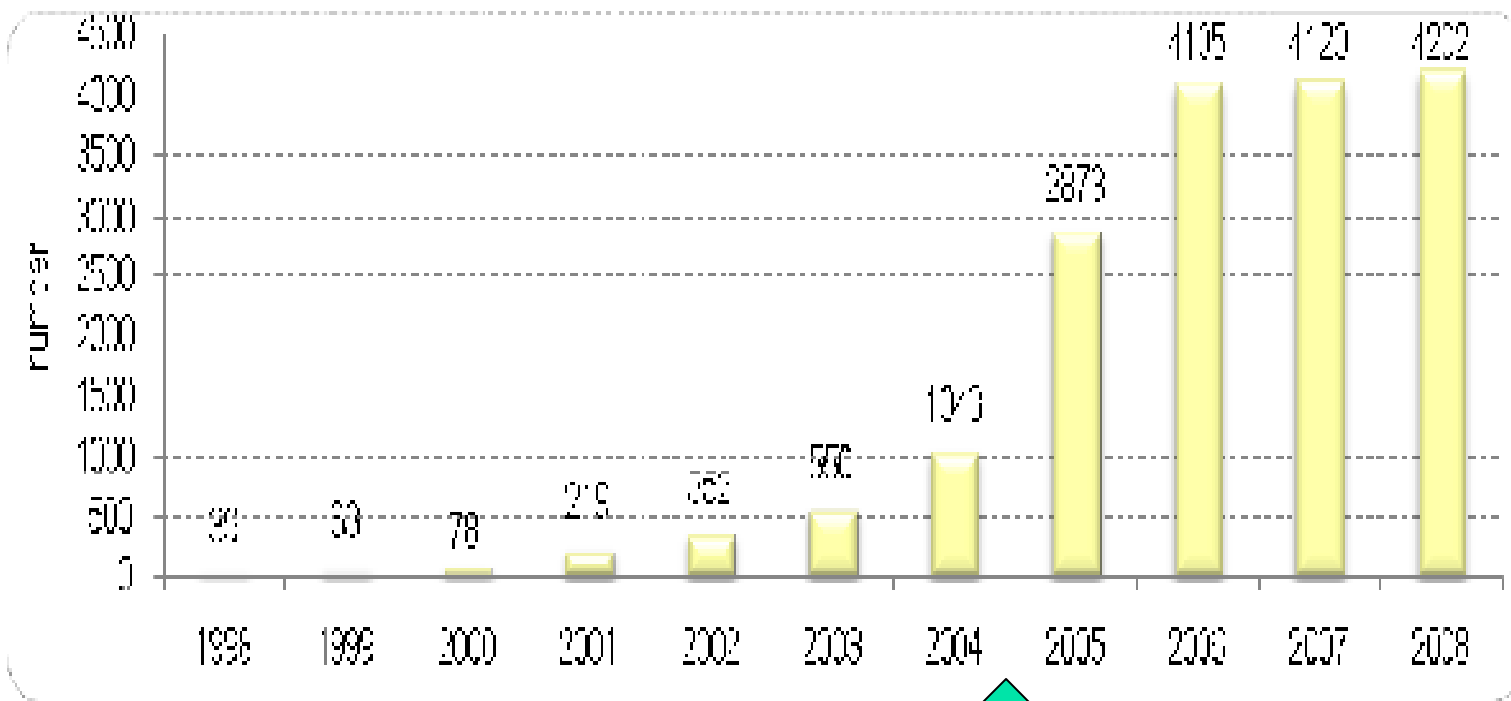
Slovakia - number of organic farms - 320
ORG Agric. Lands - 122 thous. ha =
5,78% AL

Arable lands - 30%

Grasslands - 69 % !

Orchards - 1%

Organic farms in Latvia in 1998-2008



Source: MIA

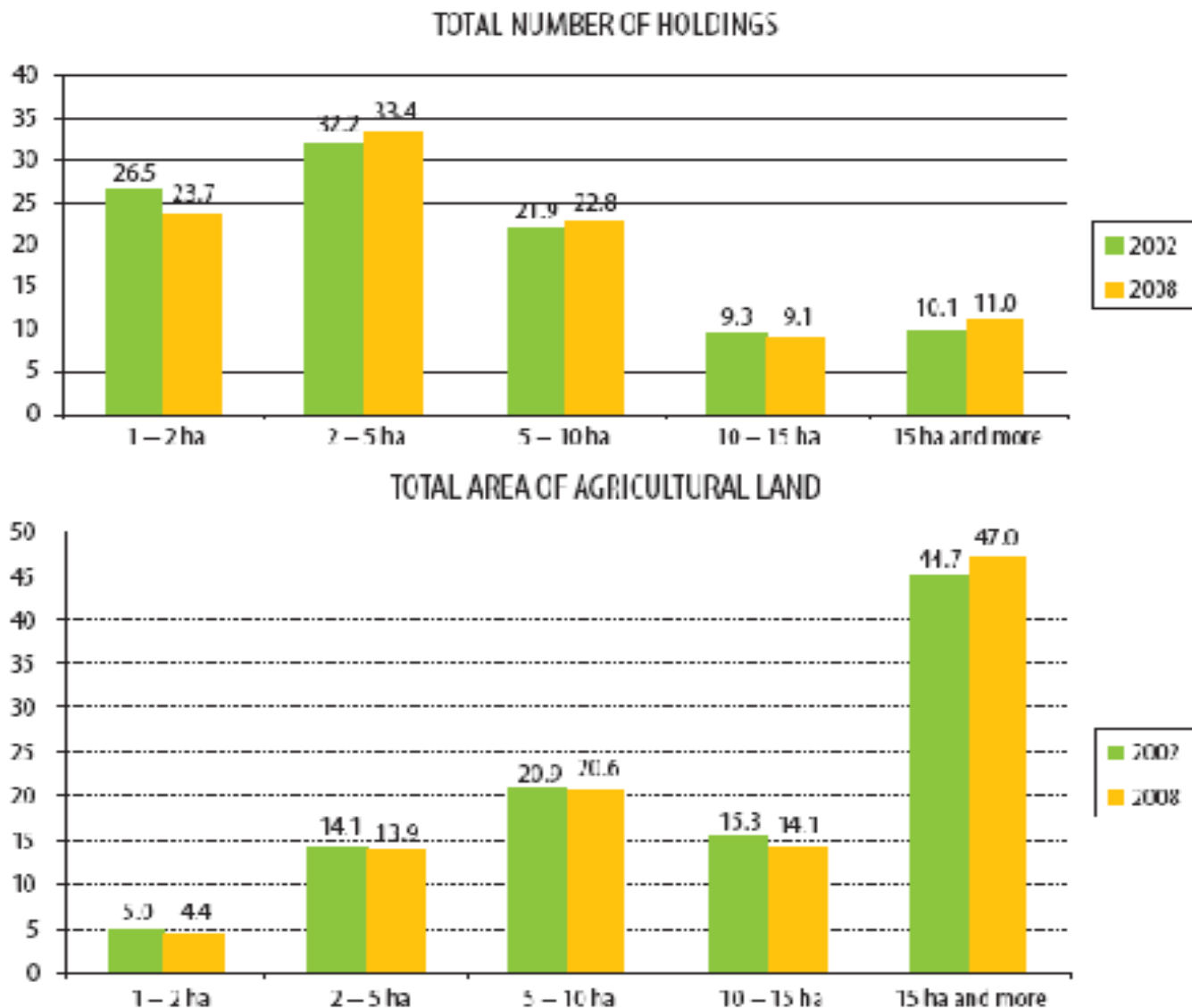
Figure 4.1. Number of organic farms in 1998 – 2008

**entrance to the
EU**



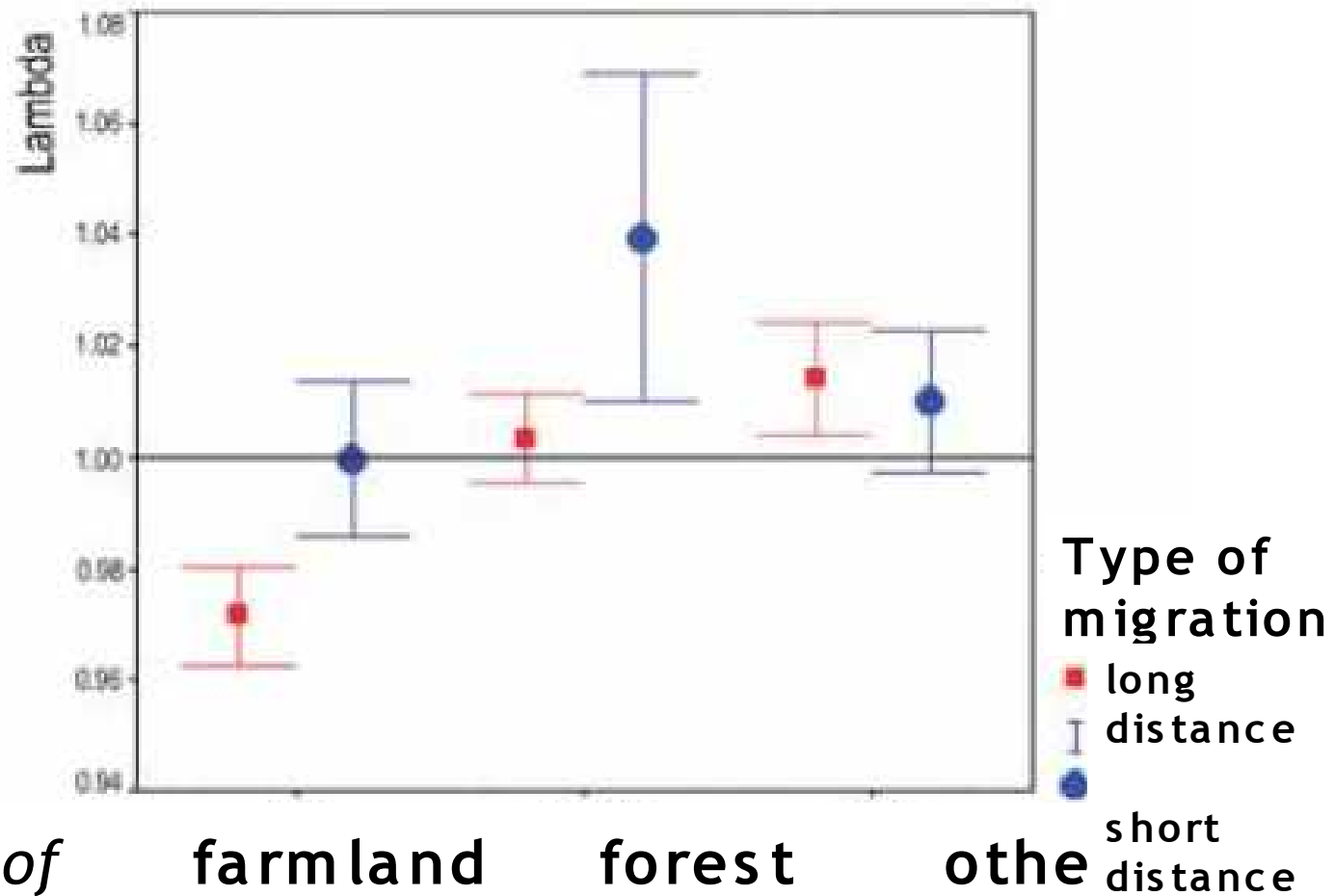
2. Development of Organic and Low-Input Farming in Poland

Fig. 4. Structure of individual farms by area groups of agricultural land in 2000 and 2007 (in %)



Source: Agriculture, CSO (GUS), Warsaw, 2009

Farmland Birds as a Bioindicator of agroenvironment quality in Poland (2006)



type of

farmland

forest

othe

short
distance

habitat

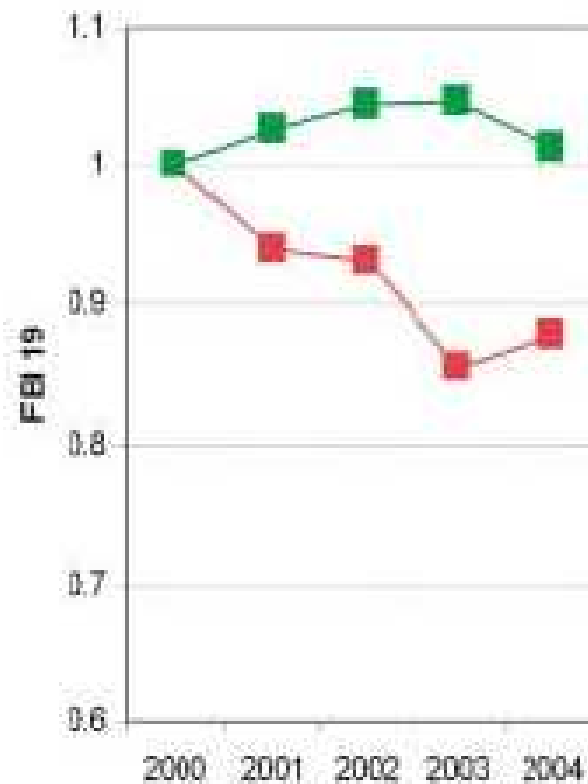
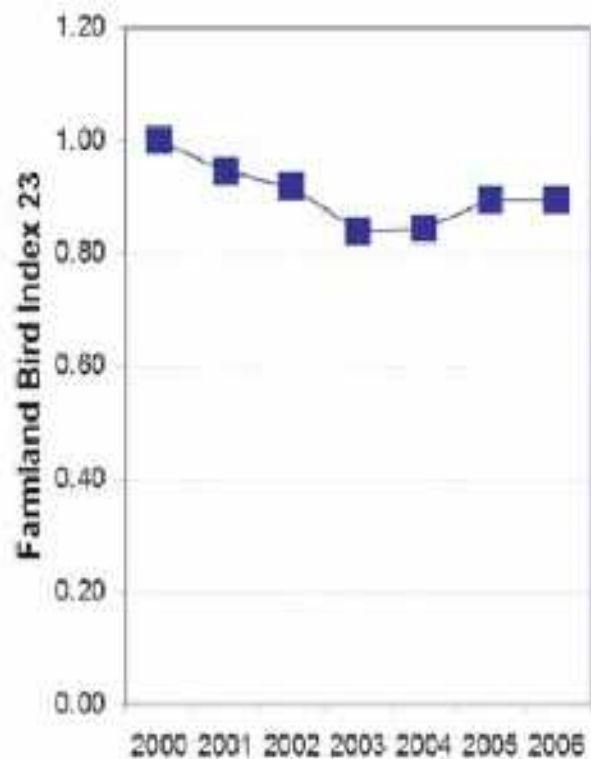
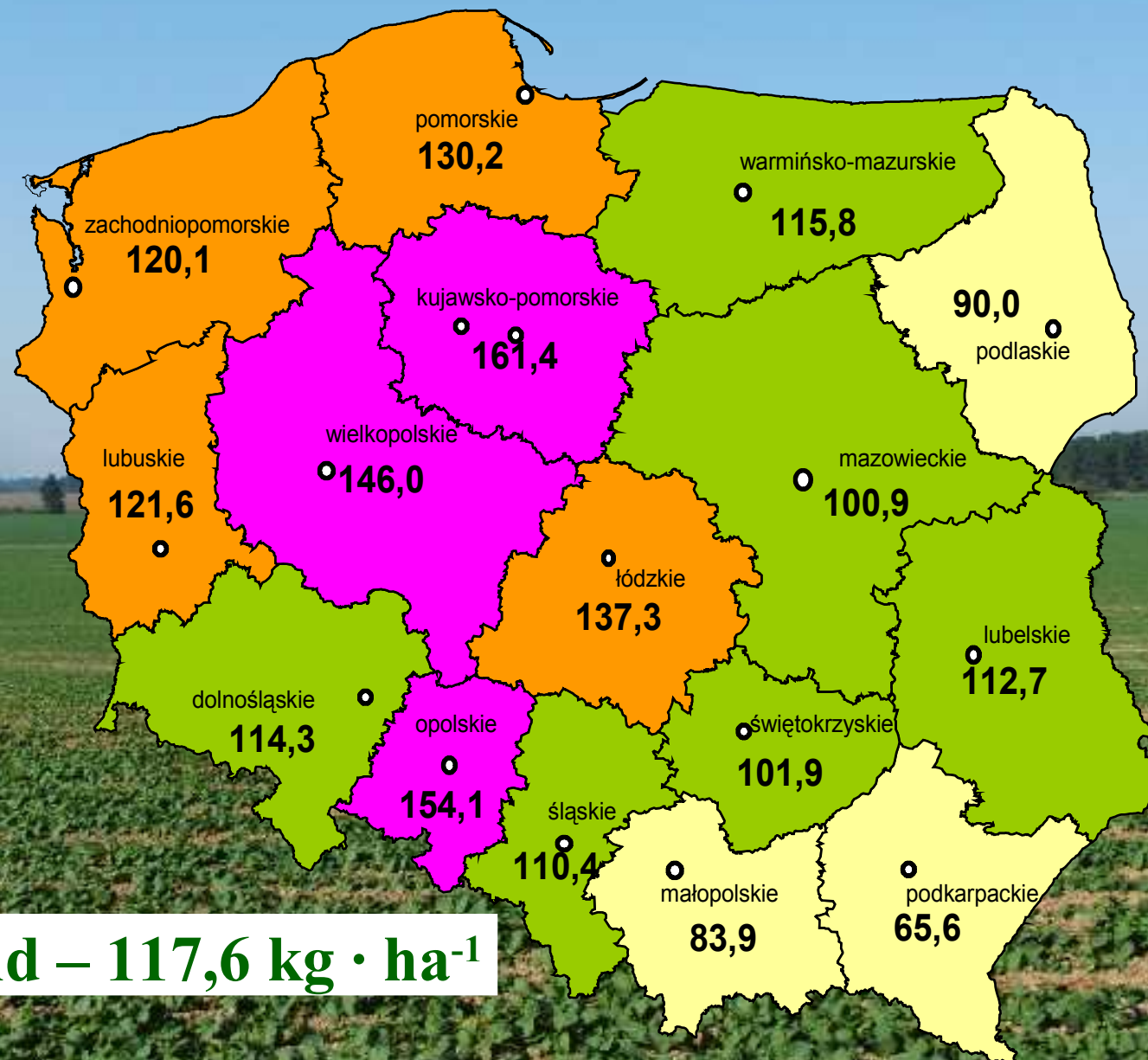


Fig. 2. Changes in the FBI in Poland
(2000-2006) and in its different regions
(2000-2004)



consumption of NPK in kg/ha of agricultural land (average 2005-2007)

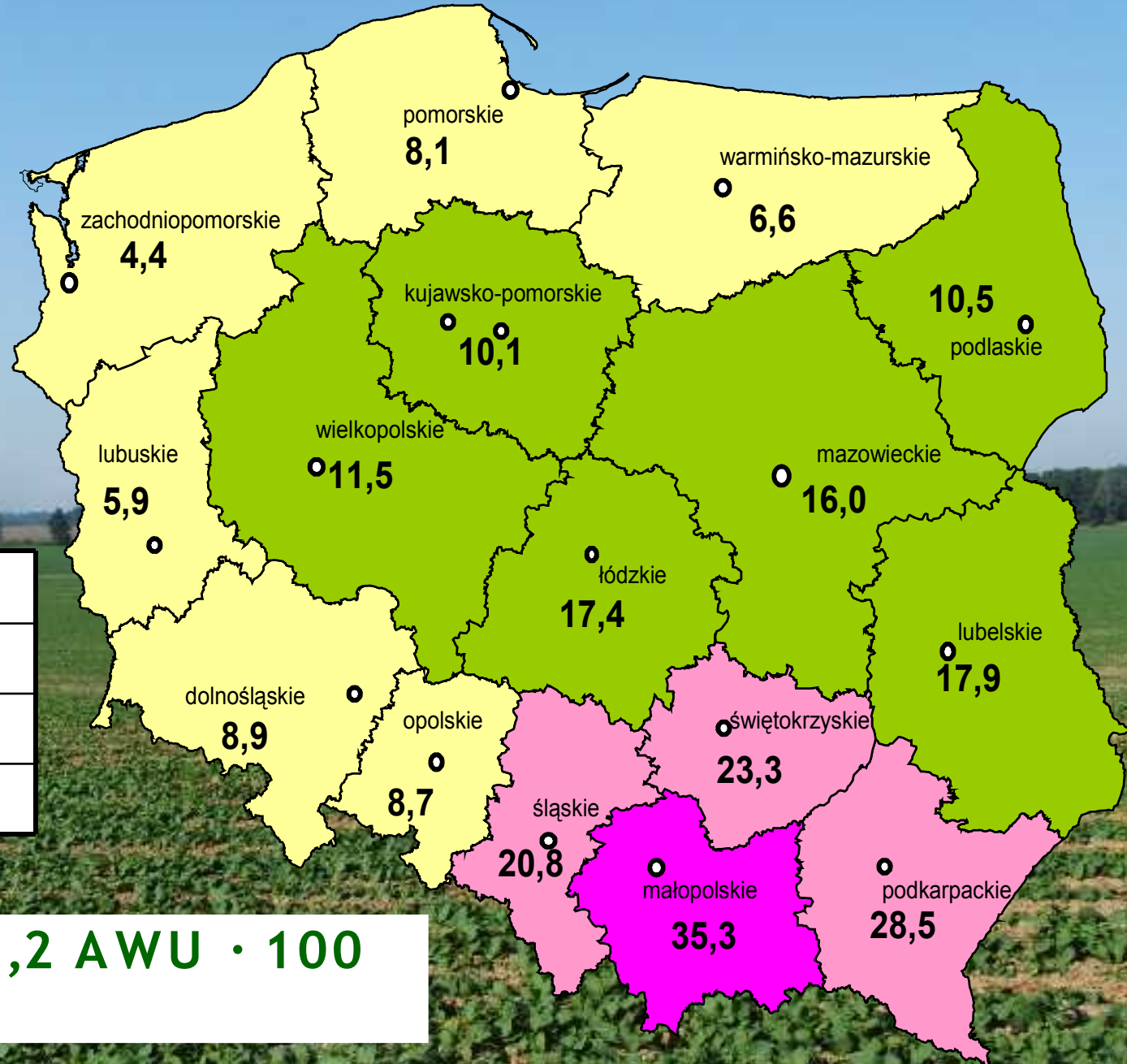


**kg NPK ·
ha⁻¹ AL**





	< 100,0
	100,0 – 120,0
	120,1 – 140,0
	> 140,0

Poland – 117,6 kg · ha⁻¹

Lands

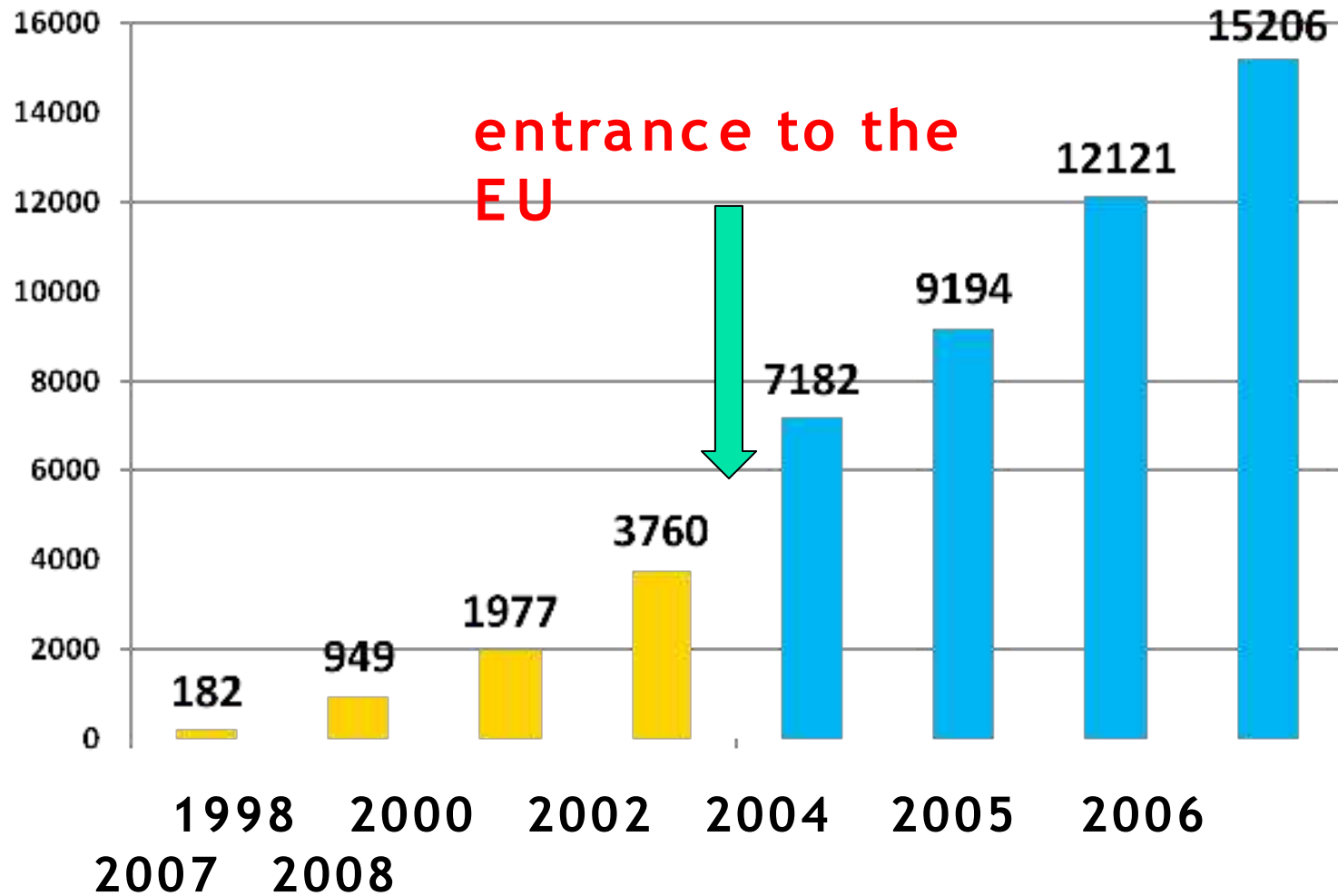


AWU · 100 ha⁻¹ AL

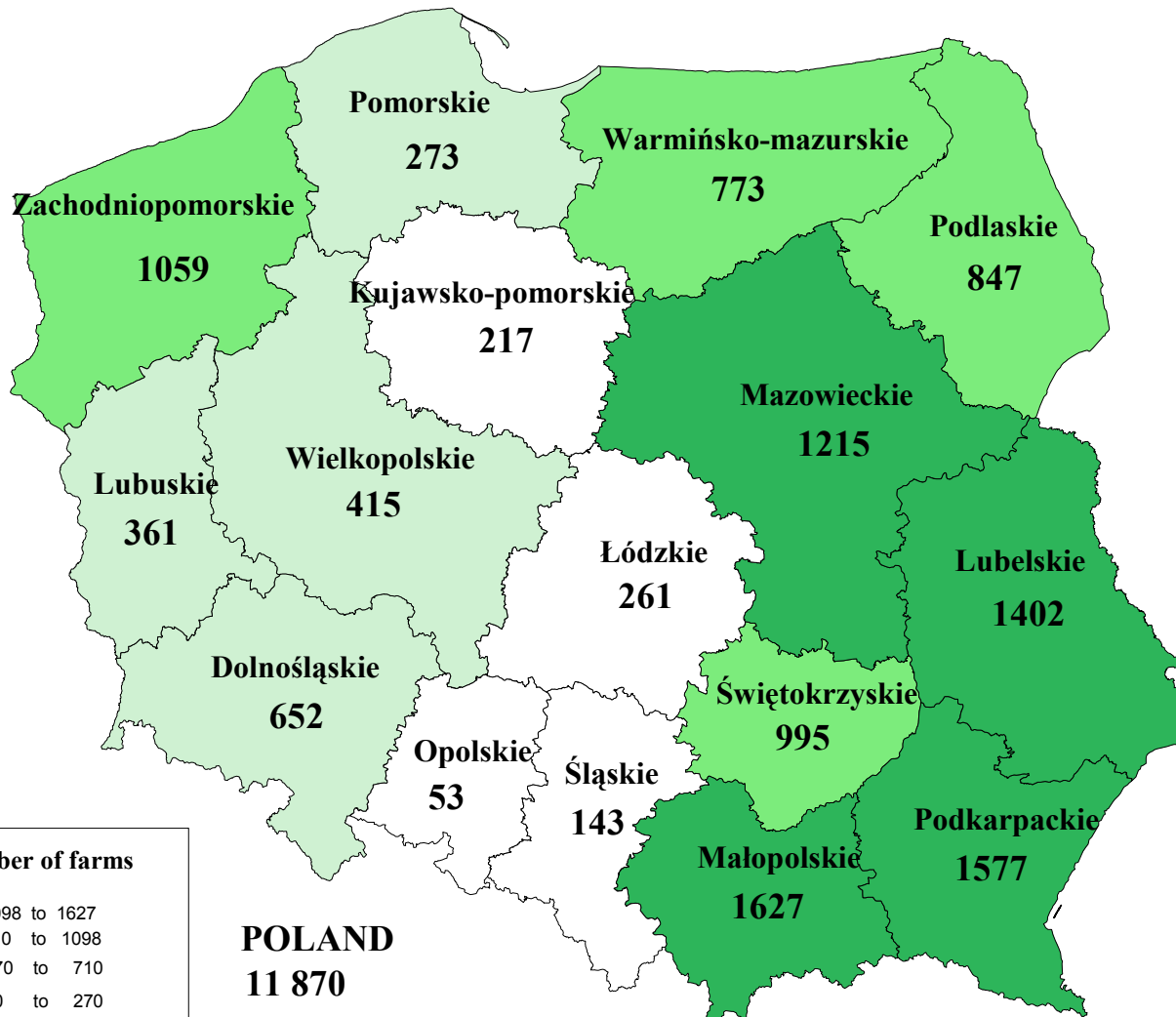
	< 10,0
	10,0 – 20,0
	20,1 – 30,0
	> 30,0

**Poland - 14,2 AWU · 100
ha AL⁻¹**

Organic farms in Poland in 1998-2008

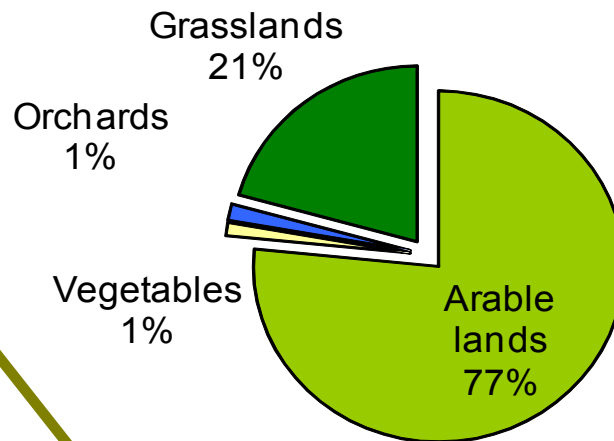


Number of organic farms (2007)



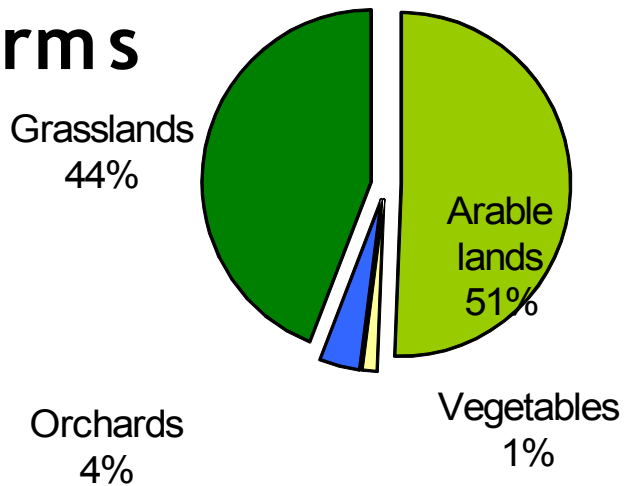
Share of particular land use categories

Average in Poland



0,48 LU/ha

Organic farms



0,20 LU/ha




Structure of Organic Land Use (%) in 2007

Specification	Poland	Organic farms	
		with certificate	in conversion
Arable lands	73	51	37
Grasslands	20	44	34
Orchards	2,1	5,3	28 !
LU /ha of AL	0,43	0,31	0,10
Area of AL. in thous. ha		137,9	149,6



Structure of land use in organic farms



	Area groups					
	< 2	2 - 5	5 -10	10-20	20-50	>50
Arab L	48	46	52	49	48	48
Gras L	21	30	33	35	38	40
Orch	28	23	13	15	12	9
LU /ha	0,30	0,43	0,46	0,40	0,33	0,16

arable lands in organic farms (%) in 2007

Specification	Poland	Organic farms	
		with certificate	in conversion
Cereals	74	51	46
Fodder crops	9	41	45
Potato	4,8	1,5	1,0
Vegetables	1,6	1,7	0,9
Herbs	-	1,5	1,7
Fallows		2,4	4,7
Livestock density LU/ha	0,43	0,31	0,10

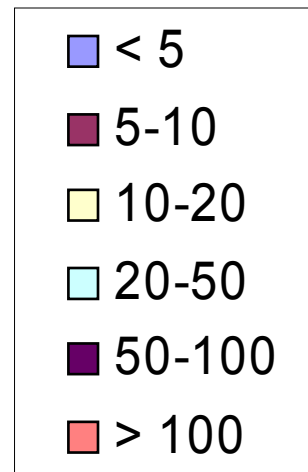
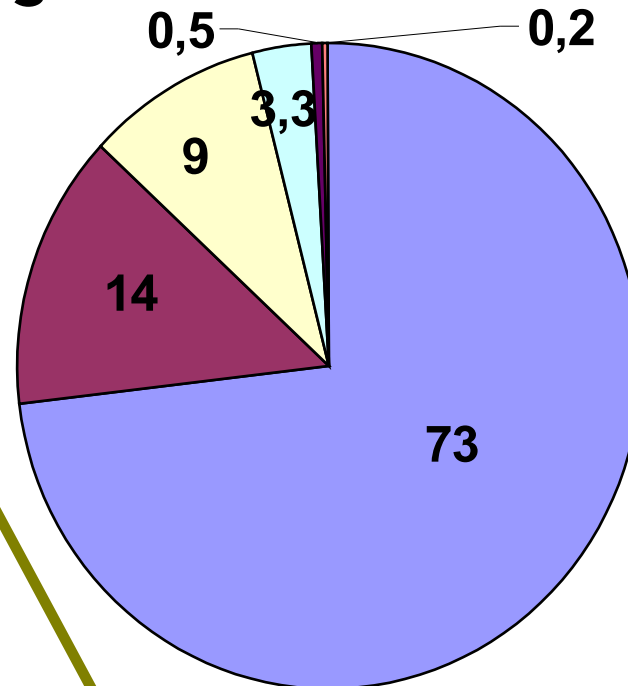
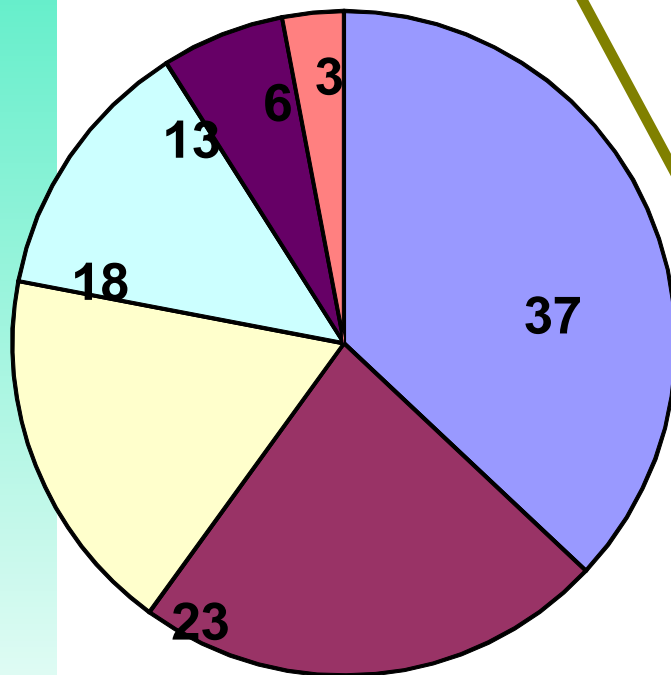


Area structure (in %) of organic farms and average in Poland

(2008)

Average in Poland

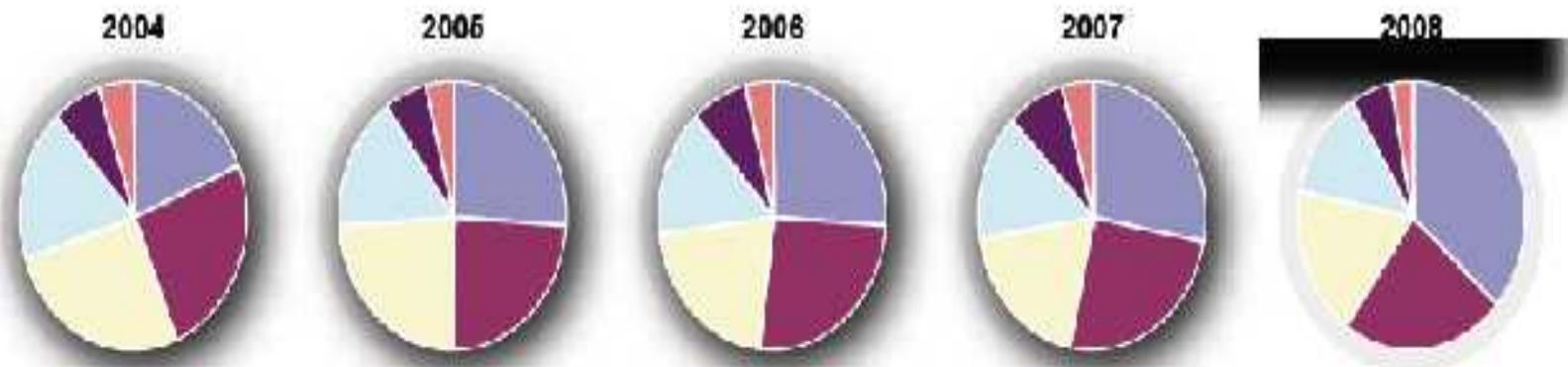
Organic farms



Average for Poland
- 8,7 ha

Average for OF - 24 ha

Development of area structure (in %) in organic farms in 2004-2008

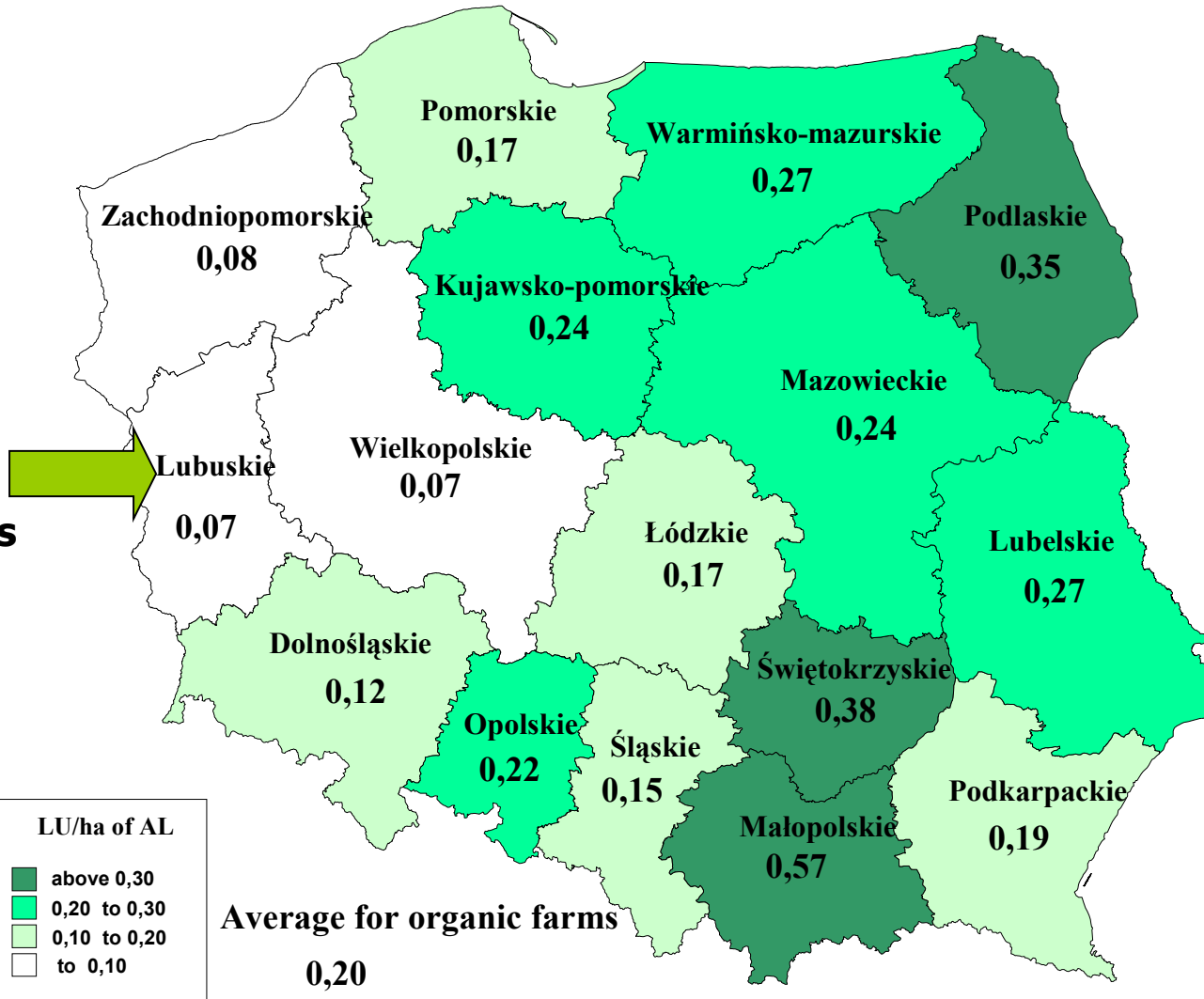


	2004	2005	2006	2007	2008
do 5 ha	19,0%	26,0%	26,0%	28,0%	36,5%
5-10 ha	21,0%	24,0%	26,0%	24,0%	23,5%
10-20 ha	25,0%	24,0%	21,0%	19,0%	18,0%
20-60 ha	18,0%	16,0%	16,0%	16,0%	13,0%
50-100 ha	7,0%	8,0%	8,0%	8,0%	6,0%
pow. 100 ha	5,0%	4,0%	4,0%	4,5%	3,0%

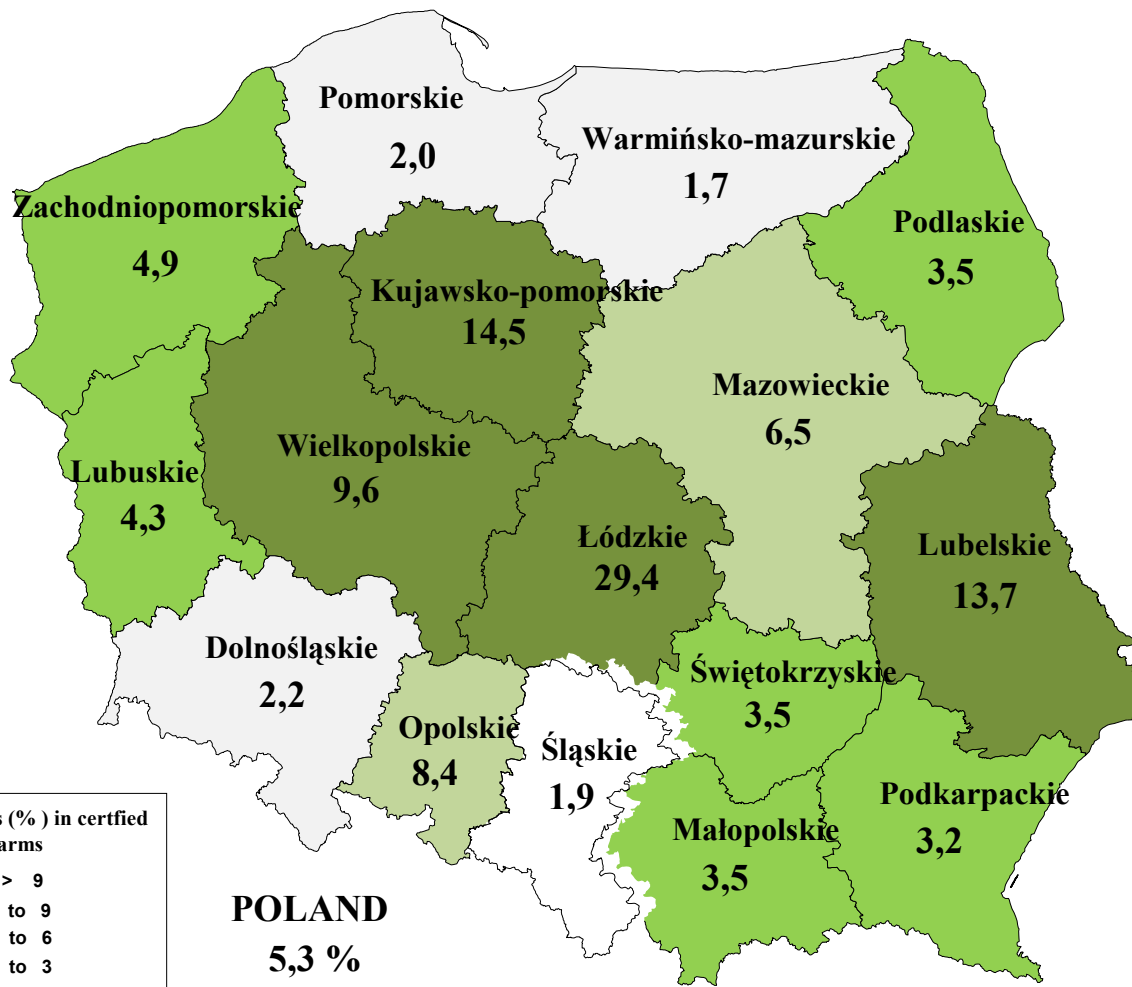
Livestock density in LU/ha of AL in ORG farms



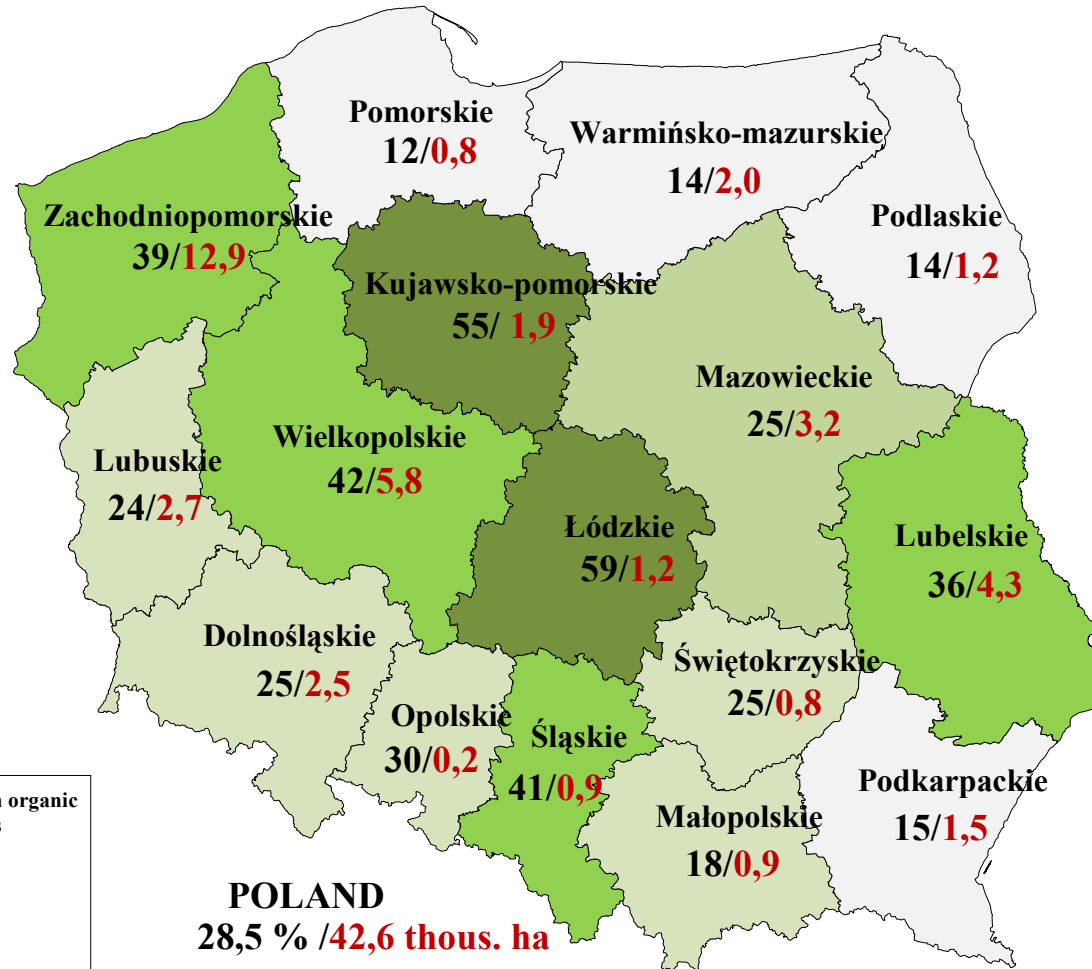
**59%
share of
grasslands**



Share (in % of AL) of orchards in organic farms (2007)



Share (in % of AL) and area (thous. ha) of orchards in organic farms being in conversion





3. Future of Organic and Low-Input Farming in Eastern Europe

Perspectives

- The number of organic farms is growing but not the organic food volume
- Market oriented organic farms in Poland have only 10-20% share in their total population
- Market farms are mainly specialized in fruit and vegetable production and are oriented on foreign markets (for example: Symbio Company)

Organic farm of Peter Osik near Lublin



1. 45 ha of
organic
vegetables and
strawberry

2. No animal
production

3. 100%
exported to
Western
Europe for
baby food

Perspectives

- EU organic subsidies within AE Schemes still are and will be in the nearest future the main factor influencing organic farming development in Poland and other Eastern European countries
- What are the main reasons to support OF within AE schemes ?
 - to protect agroenvironment ?
 - or to develop organic farming market ?



Thank you for your attention