

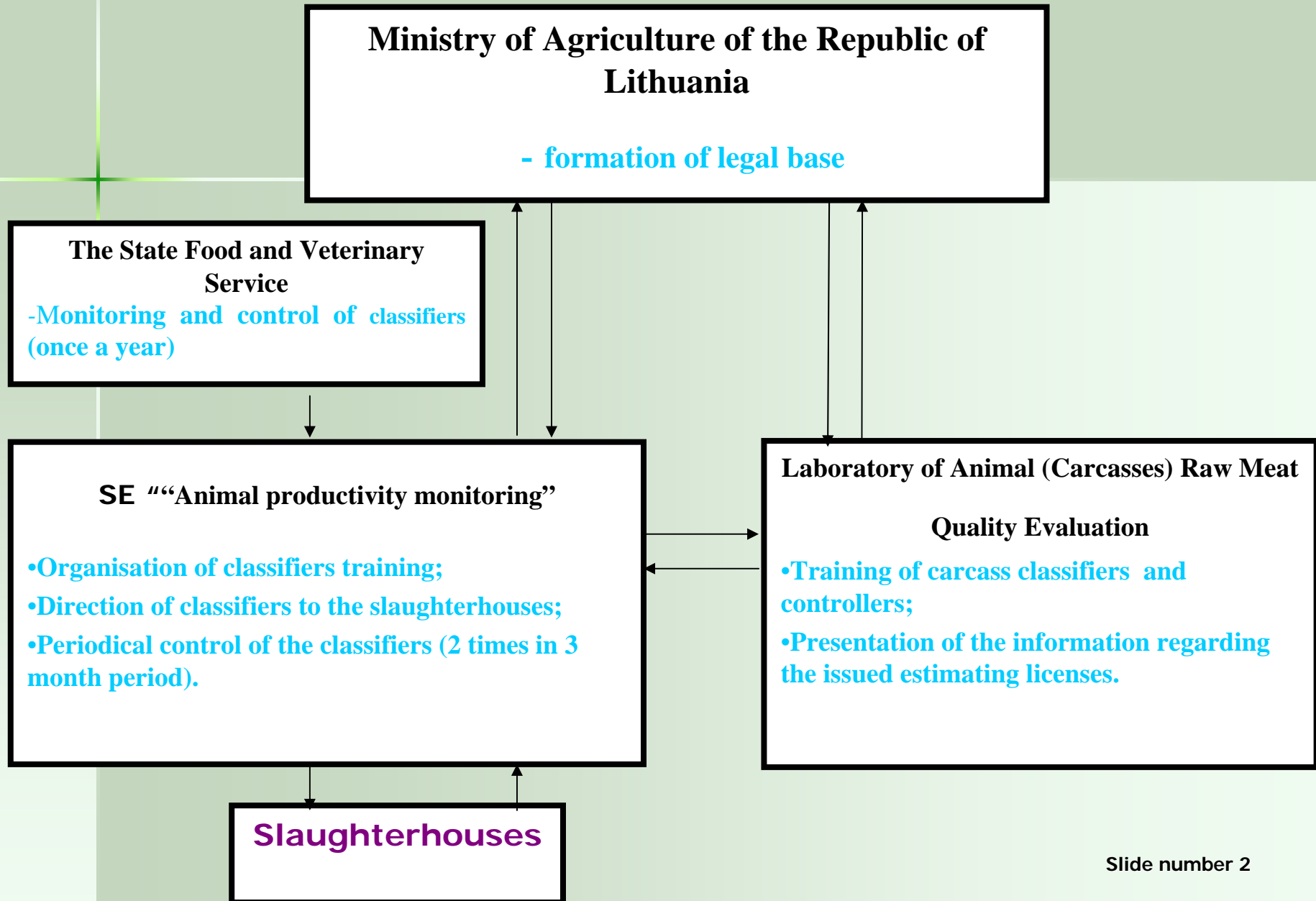
# Carcass grading system in Lithuania

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Slide number 1

# The scheme of classification system



## The main aims of animal carcass classification system implementation:

- To perform a qualified animal carcass quality evaluation;
- To mark (number) carcasses;
- To solve the payment problems among breeders and buyers;
- To encourage animal breeders to breed more productive (muscular) cattle;
- To use united carcass accounting system.

## With the help of this software we can:

- To have a quick selection of evaluating parameters;
- To perform the processing of carcass classification data;
- To perform the storage of carcass classification data;
- To perform statistical analysis of the data;
- to define the company's price for the carcasses in a short time period;
- To avoid mistakes while exchanging the information with other data systems.

# The process of evaluation and payment according the carcass quality



- 1. The animals are collected by the authorized representatives of the slaughterhouse.
- 2. Animals are taken to the meat processing company.
- 3. Animal data is entered in to the traceable data base (these data are entered by slaughterhouse personnel or the veterinarian).



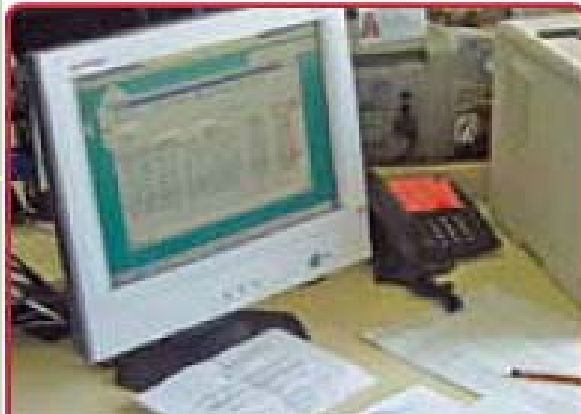
- 4. Animal are slaughtered.



- 5. Evaluation and class determination. Meat category is determined by independent SE "Animal productivity control".



- 6. The data regarding animals' carcass quality is entered in computer program.



- 7. According the carcass weight, conformation and degree of fat cover, the carcass price is calculated.



- 8. Money for the carcass are transferred to the farmer's bank account.



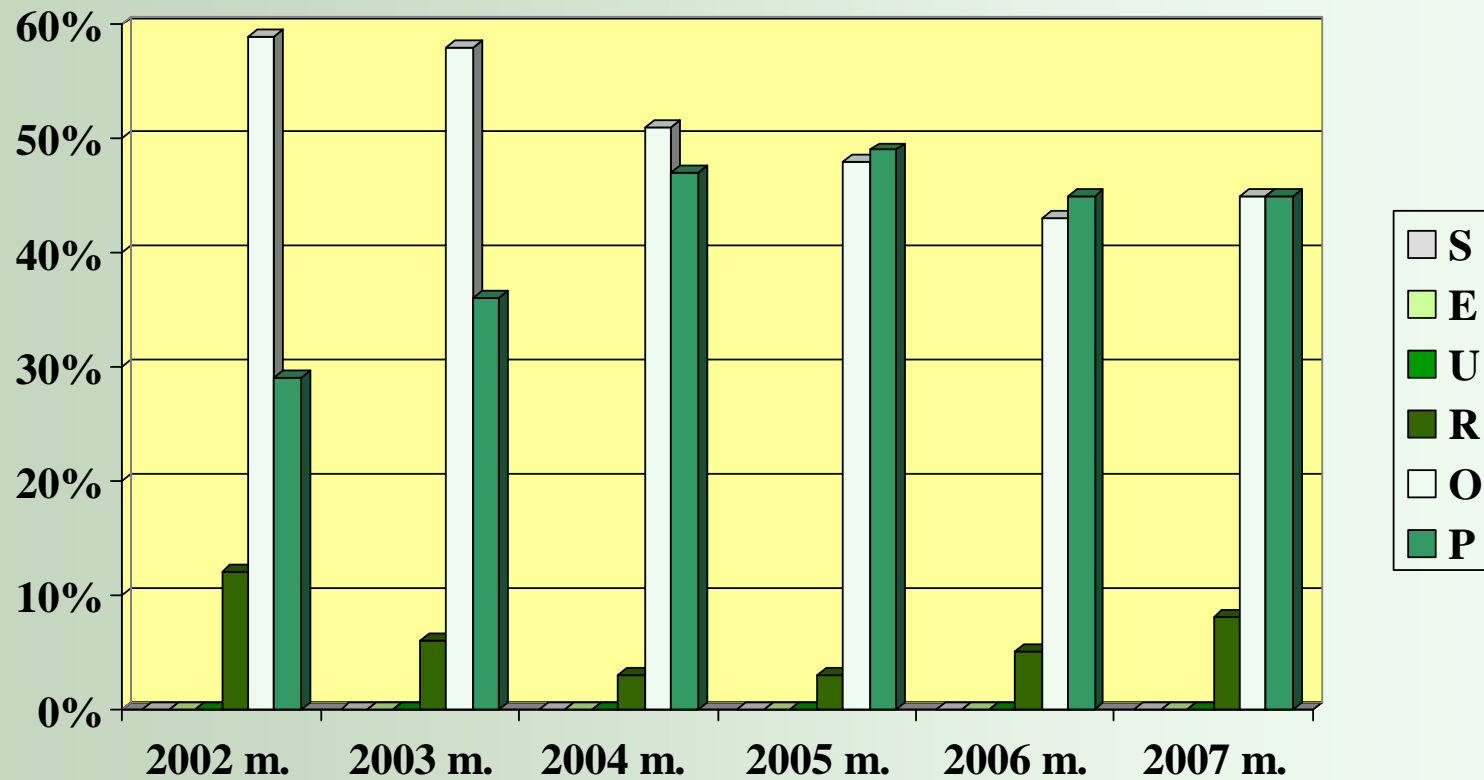
- 9. By post the farmer received the invoice about the money paid.

# Animal slaughtering and carcass evaluation

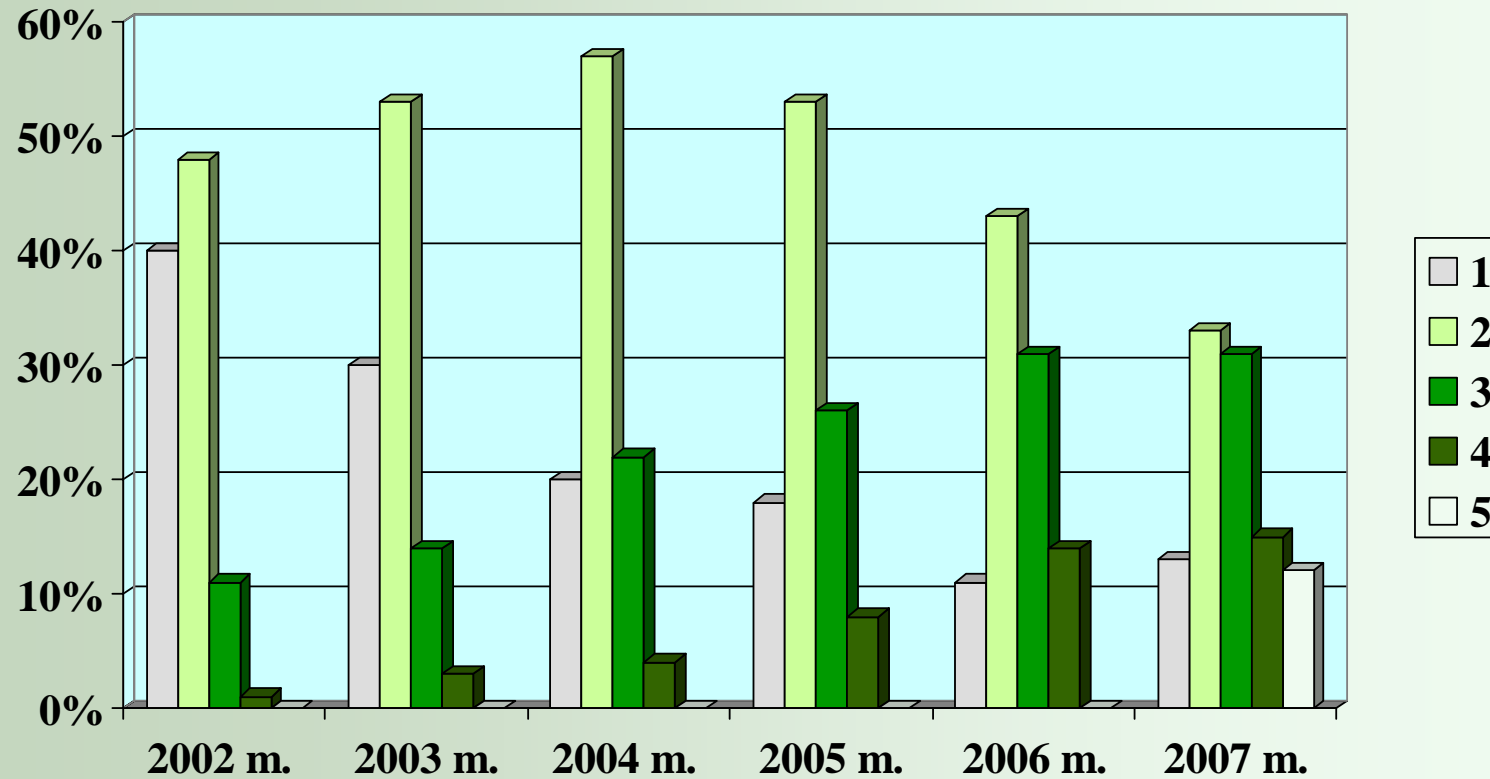
Year	Cattles			Pigs		
	Slaughtered per year	Evaluated	%	Slaughtered per year	Evaluated	%
2003	165 564	100 183	60,5	900 000	574 303	63,8
2004	170 526	124 325	72,9	828 732	609 474	73,5
2005	215 034	174 941	81,3	911 332	680 162	74,6
2006	201 642	165 658	82,1	930 000	726 550	78,1
2007	250 441	200 353	80	850 059	629 044	74



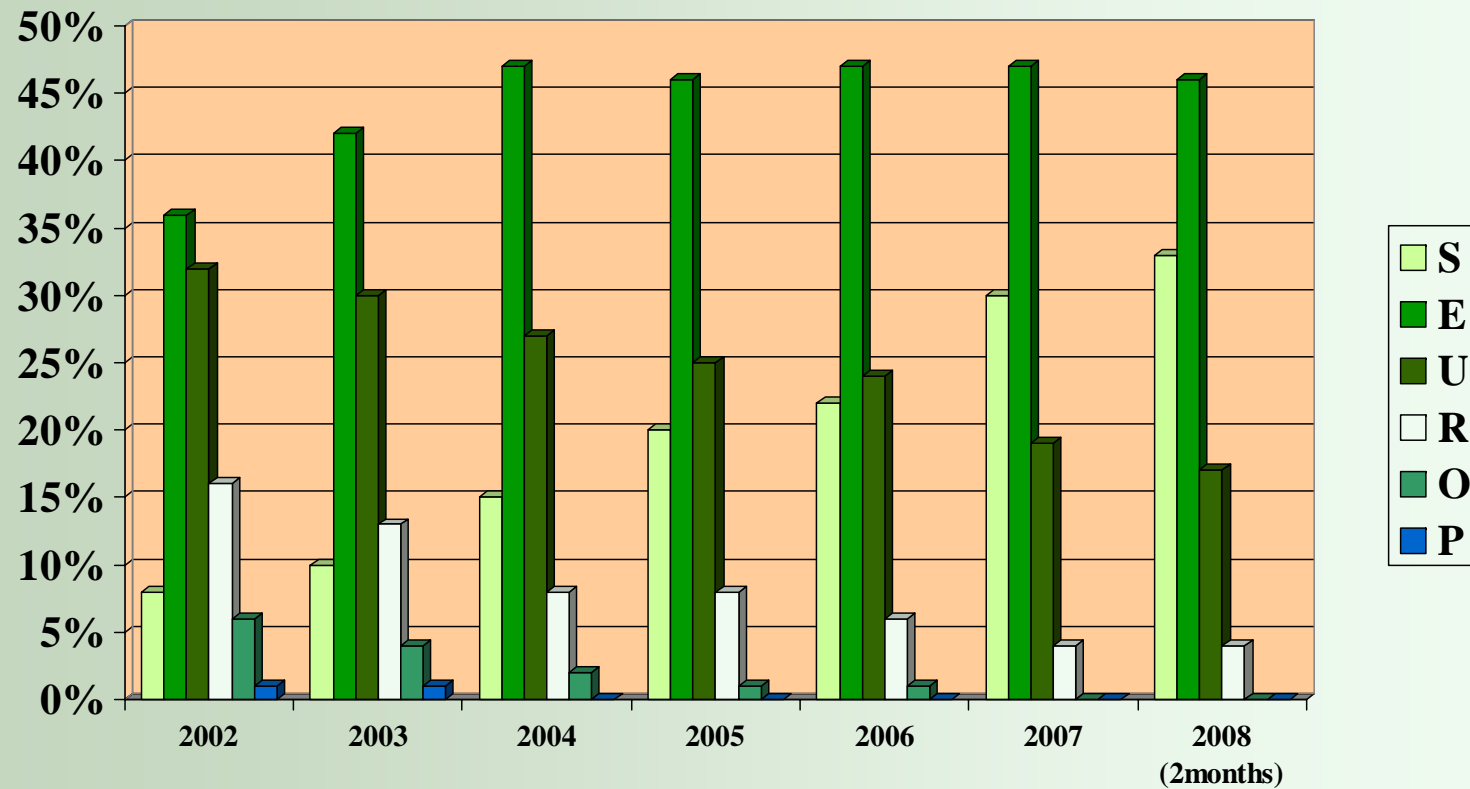
# Cattle carcass evaluation by conformation



# Cattle carcass evaluation by the degree of fat cover



# Pig carcass evaluation



# Lean meat percentage of pig carcasses

- In year 2000 - 51,2%
- In year 2006 - 57,6%

# Selection and dissection of pig carcasses by gender and fat depth

(for the FOM, HGP7, IM3 formulas calculation)

Item (N=122)	No. of pig carcasses	Percentage of pig carcasses, %
$\leq 13$	42	34.4
13.1 - 20.9	44	36.1
$\geq 21$	36	29.5
Sex		
Females	61	50
Castrated males	61	50

# Pig carcass dissection according Walstra and Merkus method



## Statistical characteristics of the main carcass traits (FOM, HGP7 and IM-03)

Statistical characteristics (n=122)	Mean
Carcass weight, kg	77.6
Actual lean meat content, %	57.6
Predicted lean meat content, %	57.6

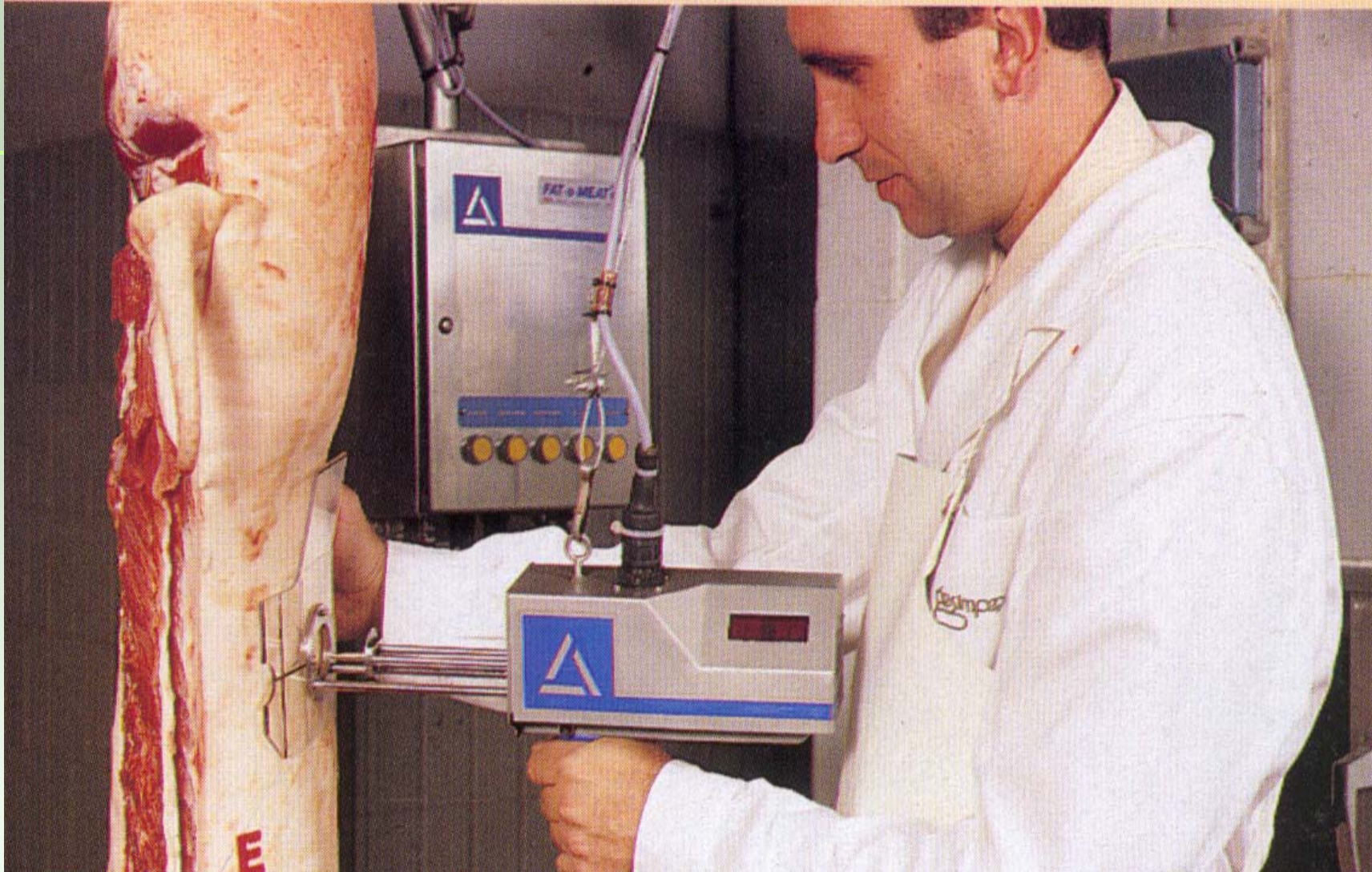
**Lean meat percentage was calculated according the EU reference methods and the formula presented in Council Regulation (EC) No 1197/2006 amending Regulation (EEC) No 2967/85.**



## In the future Lithuanian slaughterhouses will use these carcass classification apparatus:

- „Fat-oMaet'er“ (FOM), produced in Denmark;
- Hennessy grading probe (HGP7), produced in N. Zealand;
- IM-03, produced in Poland;
- Small slaughterhouses (with 200 pigs slaughtered in a week) will use Ruler (ZP) method.

# Fat-o-Meat'er (FOM)

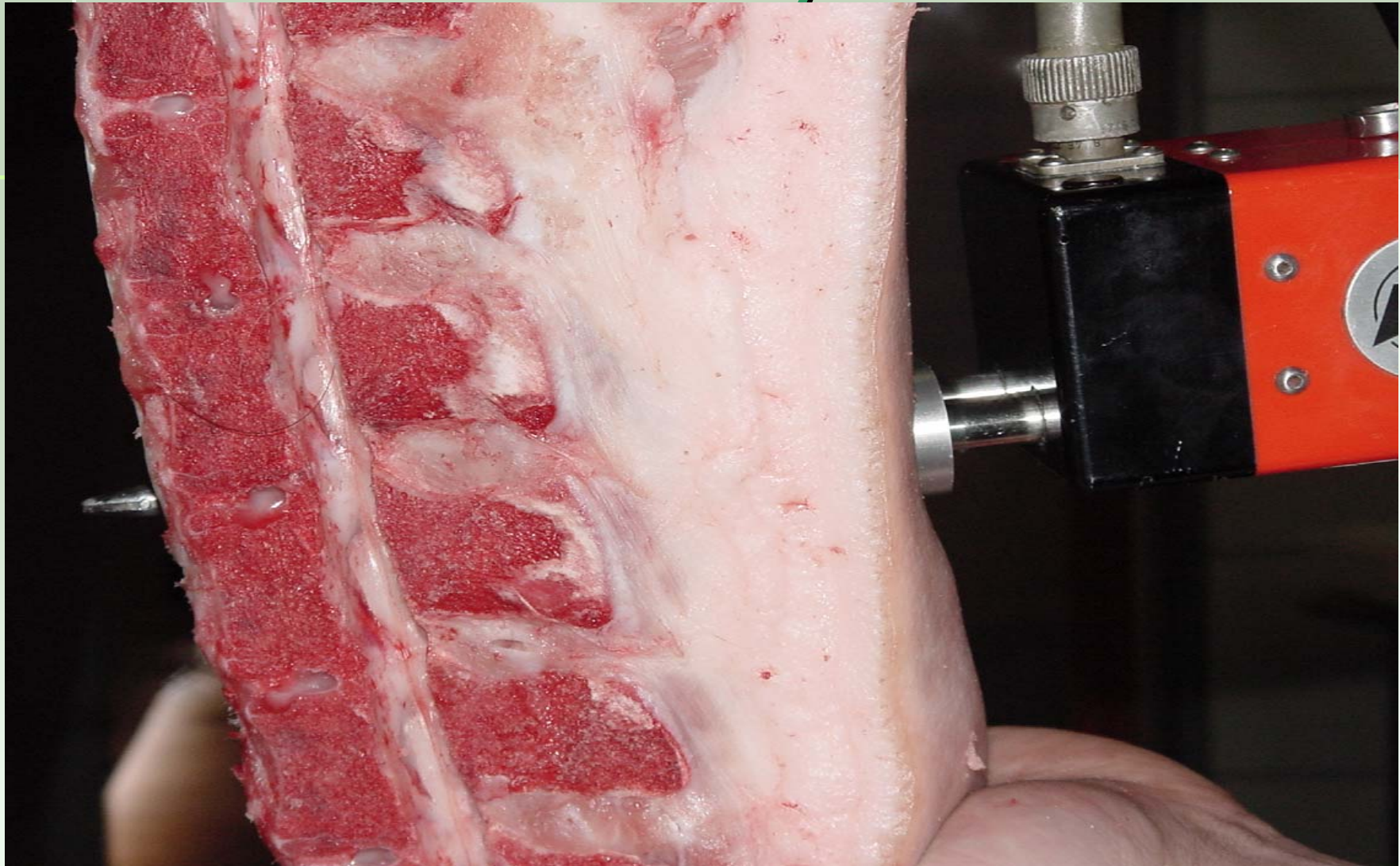


# IM-03

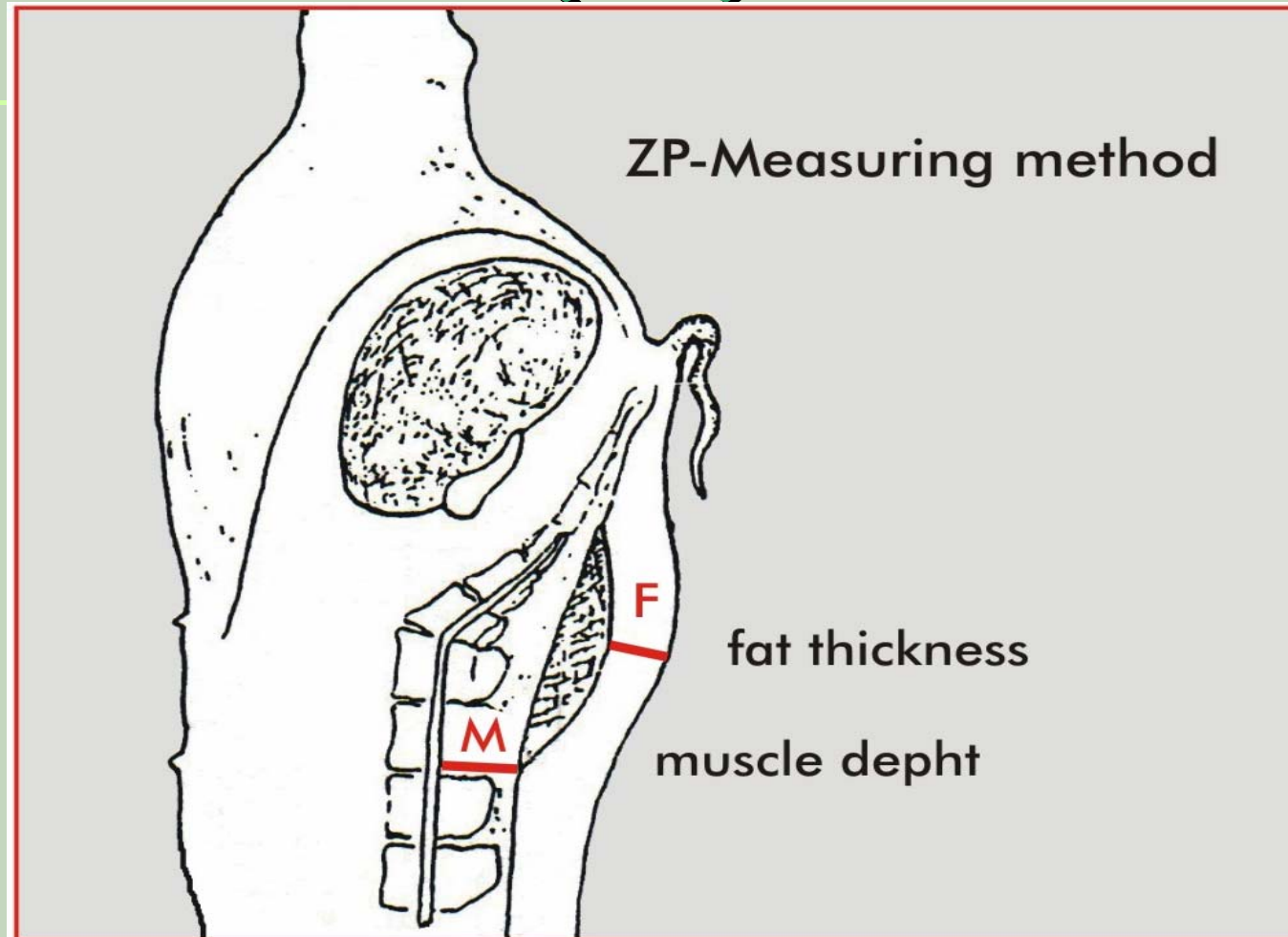




# Hennessy GP7



# Ruler (ZP) method



# The future of animal carcass classification system

- Pig carcass dissection, specification of lean meat equations and approval of the methods in European Commission will be performed periodically.
- The system for cattle classification and payment according the carcasses' weight and quality will be obligatory for all countries of the European Union.
- The payment system based on the live weight of the animals is not objective and has to be excluded.

Thank you very much  
for your attention !