



International workshop

CATTLE SECTOR DEVELOPMENT IN TRANSITION COUNTRIES OF CEE

22 August 2008, Vilnius - Le Meridien Villon Convention Centre

in the context of the 59th EAAP Annual Meeting

**Workshop jointly organized by:
EAAP Cattle Network Working Group
EAAP CEEC Contact Working Group
EAAP Cattle Commission**

CATTLE SECTOR DEVELOPMENT IN TRANSITION COUNTRIES OF CEE

22 August 2008, Vilnius

POLAND

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What are the keys to inclusion of small-scale producers in dynamic markets?

Outline

The nature of the restructuring of dairy industry

Market channel choices of farmers

Determinants of modernisation at the farm level

Impact of farm modernisation on farm revenues

Conclusions



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Main facts

- With its production of 11.7 billion litres Poland is the 4th largest milk producer in the European Union. As regards 2008, slight increase is expected.
- Export of dairy products amounted in 2007 to 1.14 billion EUR (23% increase compared to 2006). This happened notwithstanding strong appreciation of PLN.
- Average milk and dairy products consumption *per capita* amounted in 2007 to 173 litres (2% decrease compared to 2006)
- Average butter consumption *per capita* amounted in 2007 to 4.2 kg (3% decrease compared to 2006). As regards 2008, slight decrease is expected.
- Milk production very fragmented:
 - ⇒ Changes observed on the market have important social repercussions
 - ⇒ Small-scale farmers on the pedestal



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Dairy sector restructuring

Changes taking place in 3 dimensions:

Production sphere

new technologies

taking advantage of economies of scale

Marketing sphere

new marketing channels

contracting

Institutional environment

regulations: milk quota system, quality standards, subsidies

market structure

vertical coordination



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Main developments in dairy supply chain

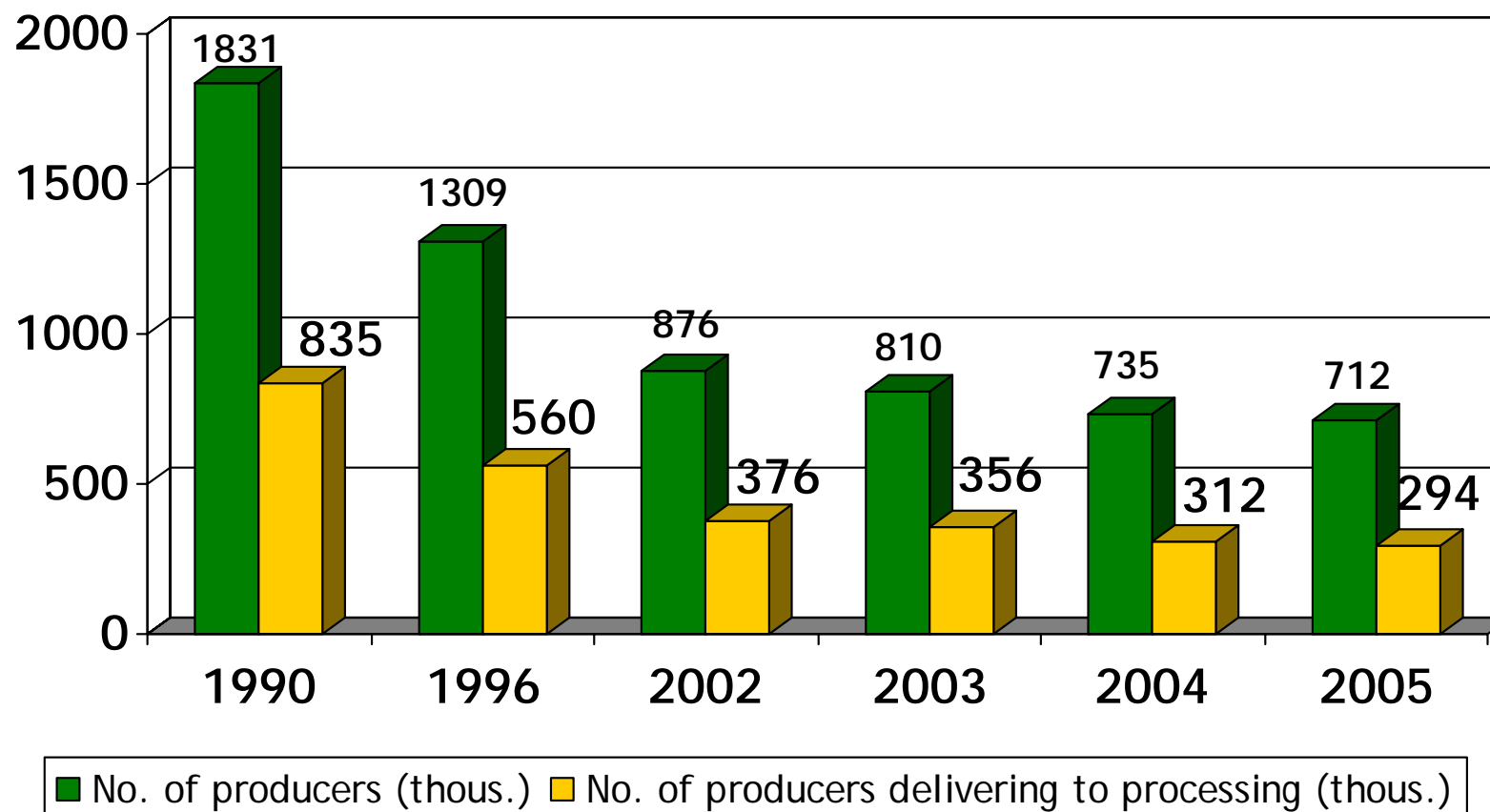
- Decrease in number of agents operating in dairy industry:
 - households having cows
 - farms delivering milk to the market
 - number of dairy processors
 - wholesalers
- Concentration at every stage of dairy supply chain
 - Farm level – in 2004-06 average milk delivery increased by 47%
 - Processing level – no. of processors decreased in last decade by ~30%
 - Retail level – increasing importance of super- and hyper-markets
- Specialisation
 - farm level – dominance of dairy production
 - processing level – large companies having specialized dairy plants
 - regional level (dairy production most important e.g. Podlaskie region)



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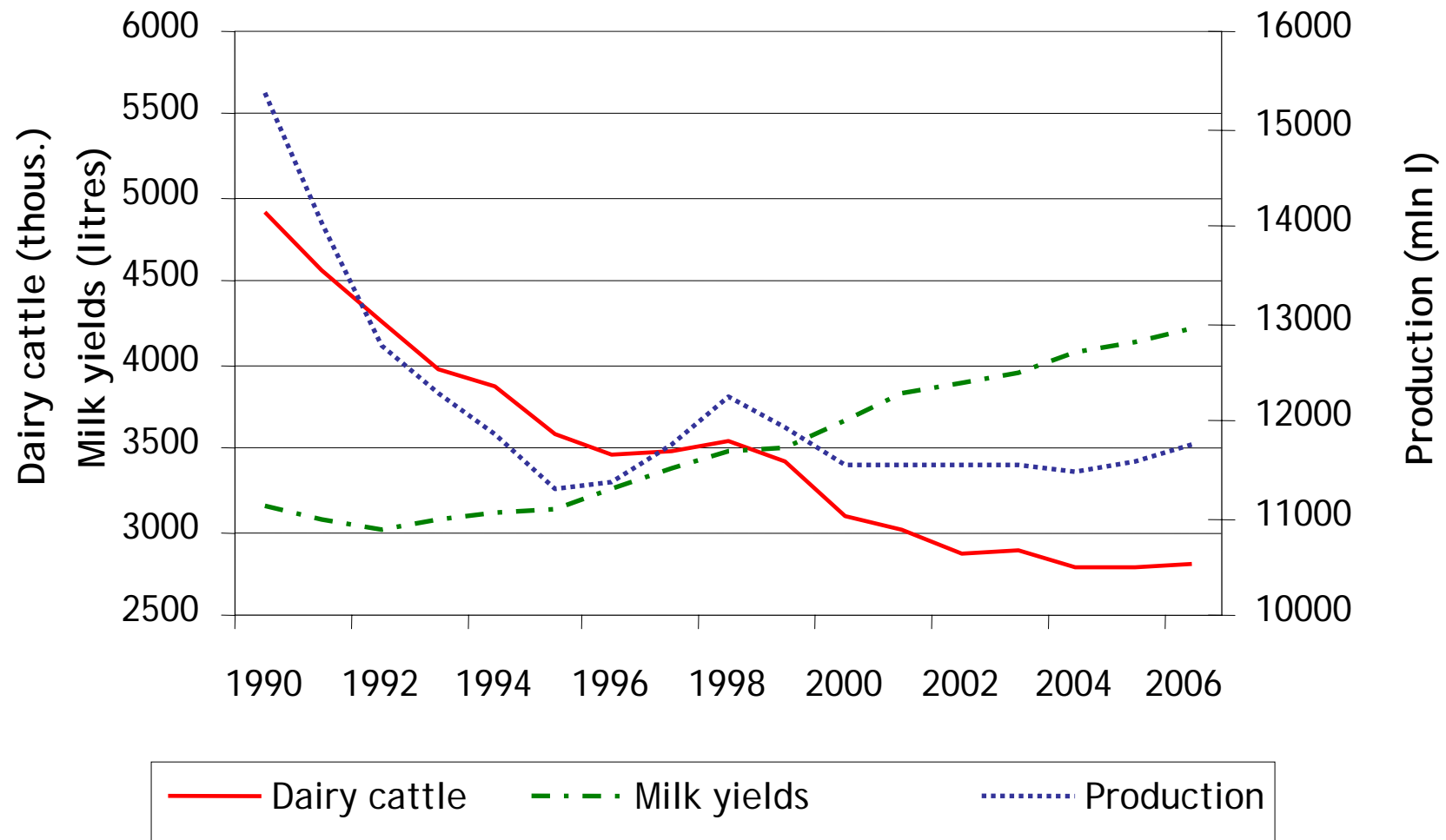
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Number of dairy producers in Poland during transition



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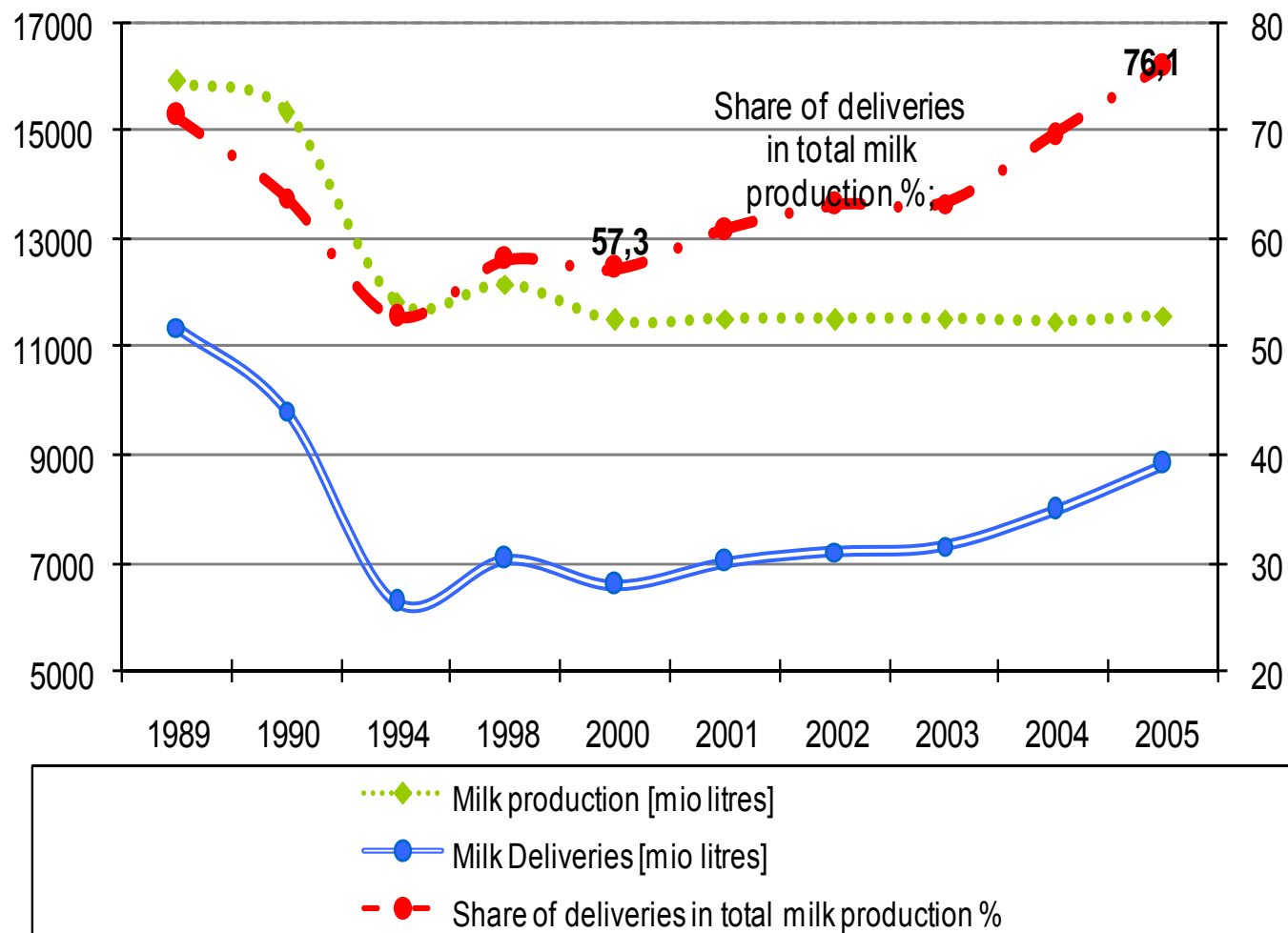
Main developments (2)

- Outstanding improvement in milk quality
 - in 1999-2005 share of 'extra' class milk in total deliveries increased from 32% to 95%
- Improvement in variety of dairy products (higher added-value products, private label products)
- Compared to other CEE countries, foreign owned dairy companies of relatively minor importance
 - domestic companies having 70-80% of market share
- Increase in commercial production



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Main developments (3)

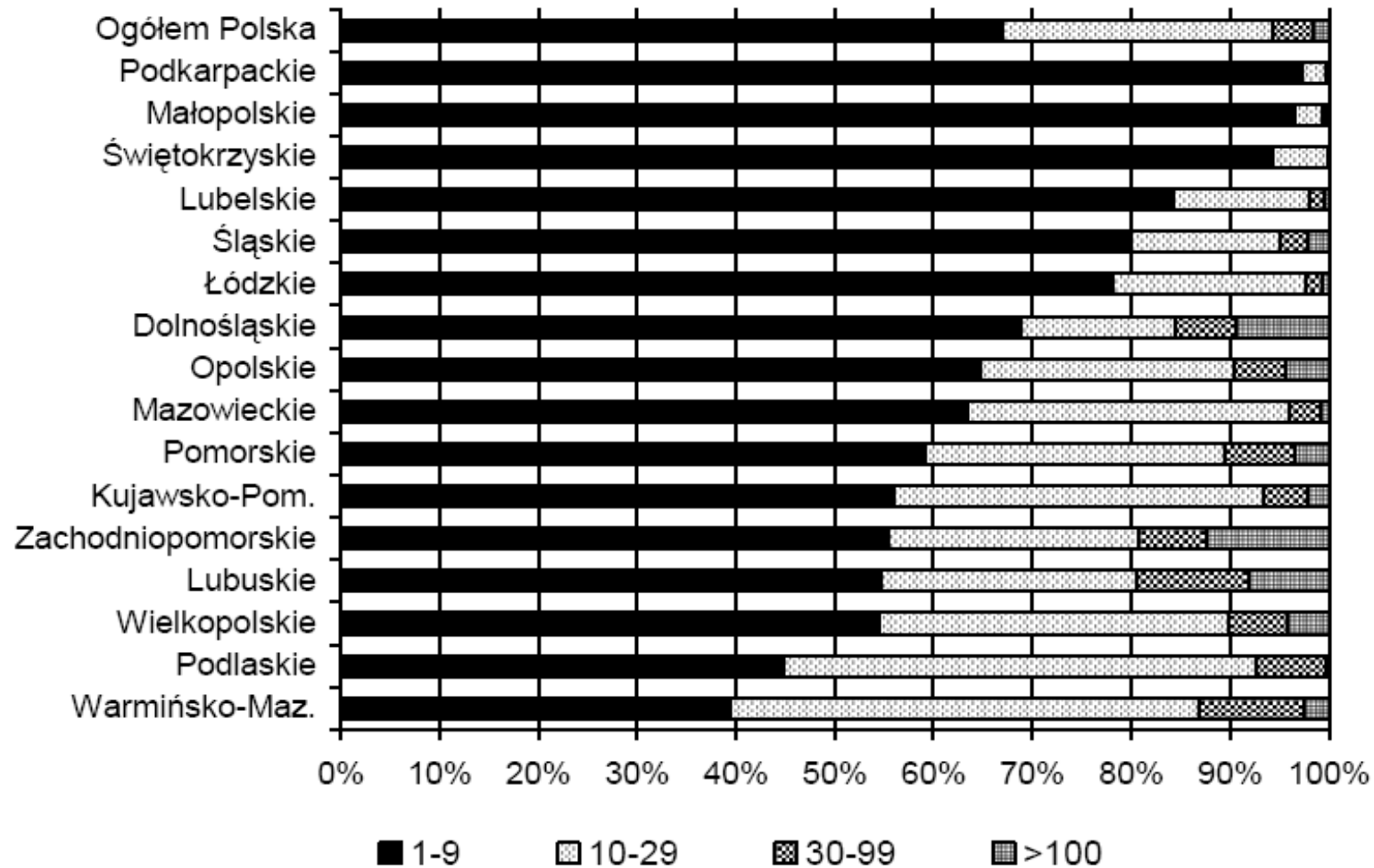
- Emergence of modern marketing channel
 - traditionally milk delivered to collection points
 - modern way: milk collected at the farm
- Increase in direct collection from the cooling tank at the farm (65-100% of deliveries)
- Gradual disappearance of collection stations (free rider problem)
- Decrease in direct sales (quality requirements)
- Vertical coordination between processing industry and dairy farms
 - various forms of support (consultancy, credit, provision of machinery)
 - milk production still enormously fragmented =>
 - assistance programmes directed also to small-scale producers



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COW HERD STRUCTURE



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Main drivers behind the observed changes

- The EU accession and integration process **as the main driving force**
 - pre-accession investment assistance, quality requirements, the introduction of a milk quota system, etc.
- Changes in **the processing sector** accelerated the restructuring process at the production level.
 - assistance programmes for farmers
- The process of policy-driven restructuring will continue in the near future (decisions concerning WTO negotiations and the future of dairy sector in the EU)

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Implications for farmers

Increase in quality requirements for dairy processors



Importance of the role of direct procurement from farmers



Investment requirements for farmers (equipment, land, herd size)



Specialisation in milk production

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Market channel choices of farmers

Delivering to processing industry:

- **Modern:** direct collection from the cooling tank at the farm;
- **Traditional:** milk delivery to a collection station operated by the dairy company

Delivering directly to the market:

- **Direct sales** to final consumers

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Barriers to farm modernisation

- High entrance costs to modern channels for producers
 - Quality requirements
 - Sanitary and veterinary requirements
 - Land prices
 - Lack of own resources and access to external funding
 - Quota system
- Skills and knowledge
- Mentality (reluctance to cooperate)

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Research questions

Which small farms can make the switch from the traditional to the modern marketing channel and how can this switch be facilitated?

Does this switch really pay? What is the impact of switching the channel on farm revenues?

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Data

Qualitative research:

May and August 2006

chain 36 **semi-structured interviews** with representatives of
segments and experts
5 **focus groups** with farmers

Quantitative research:

January and February 2007

survey: 397 interviews at the household level

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Results of quantitative research

What facilitates entering to the modern marketing channel?

- Human capital & initial physical-capital endowments are not decisive factors
- It is rather access to funds allowing for adjustments that matters here
- => the role of dairy processors providing access to external financing appeared to be crucial
- Joining the modern channel is facilitated by having larger cow herds and breeds of better quality
- However, no systematic evidence for small farms' exclusion was found
- Surprisingly negative impact of 'cooperation'

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Results of quantitative research (2)

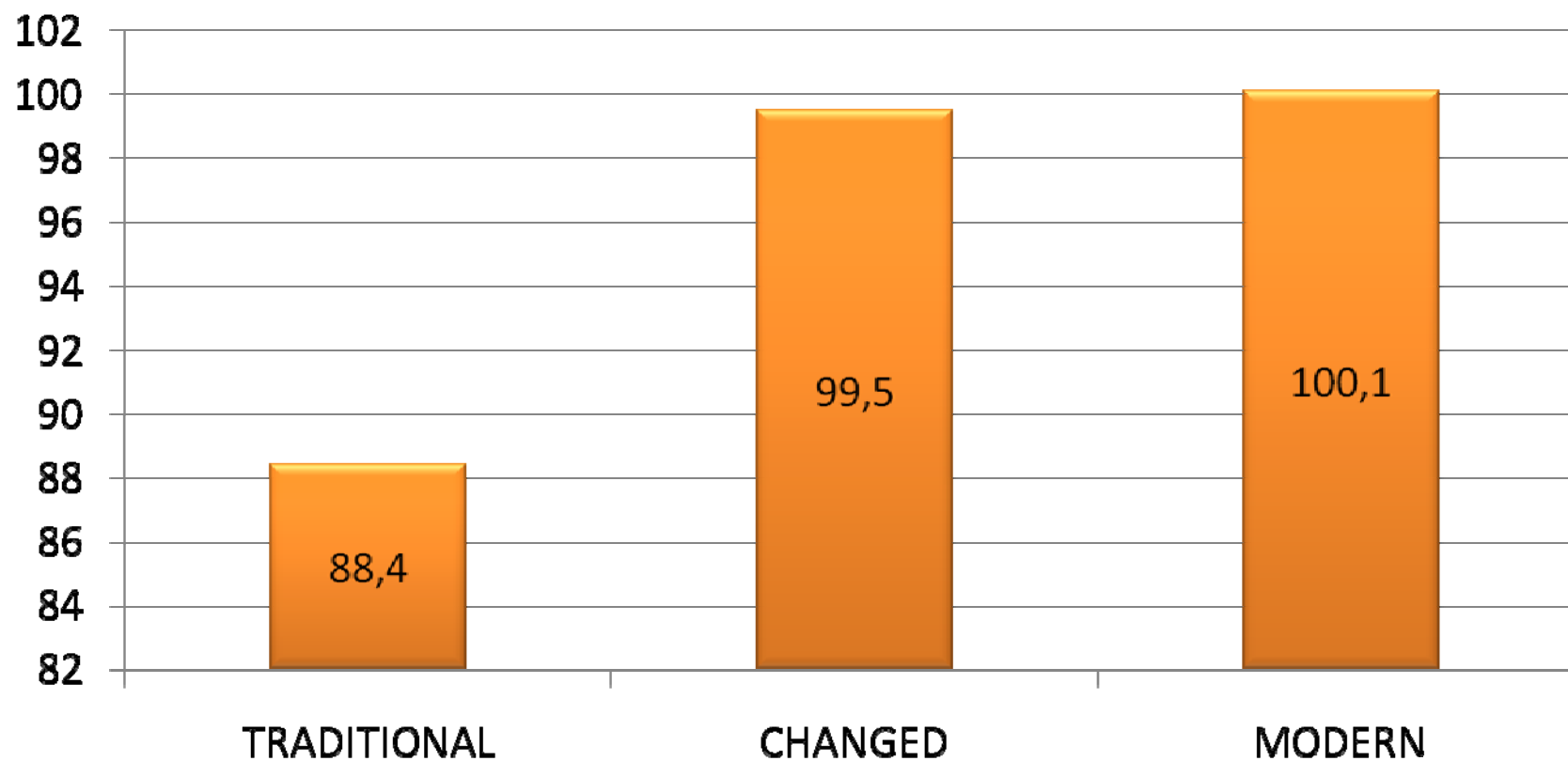
What is the impact of entering to the modern marketing channel?

- Positive effect on farms' revenues
 - regardless of the farm size, though for smaller farms the effect is of lesser magnitude
- Increased farms' specialisation in milk production
 - larger farms relying on agricultural income alone
 - smaller farms combining 'dairy income' with some other non-agricultural income sources

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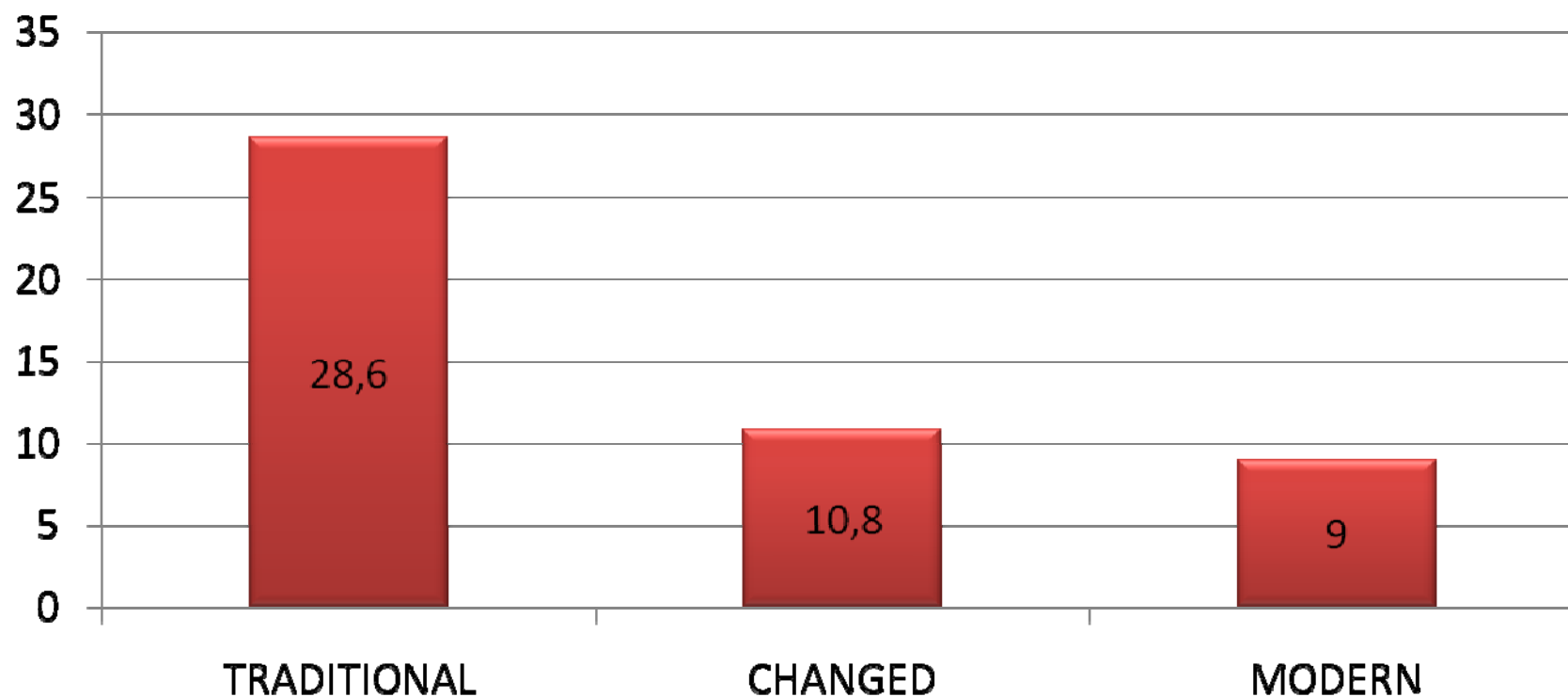
Prices (PLN/100 litres)



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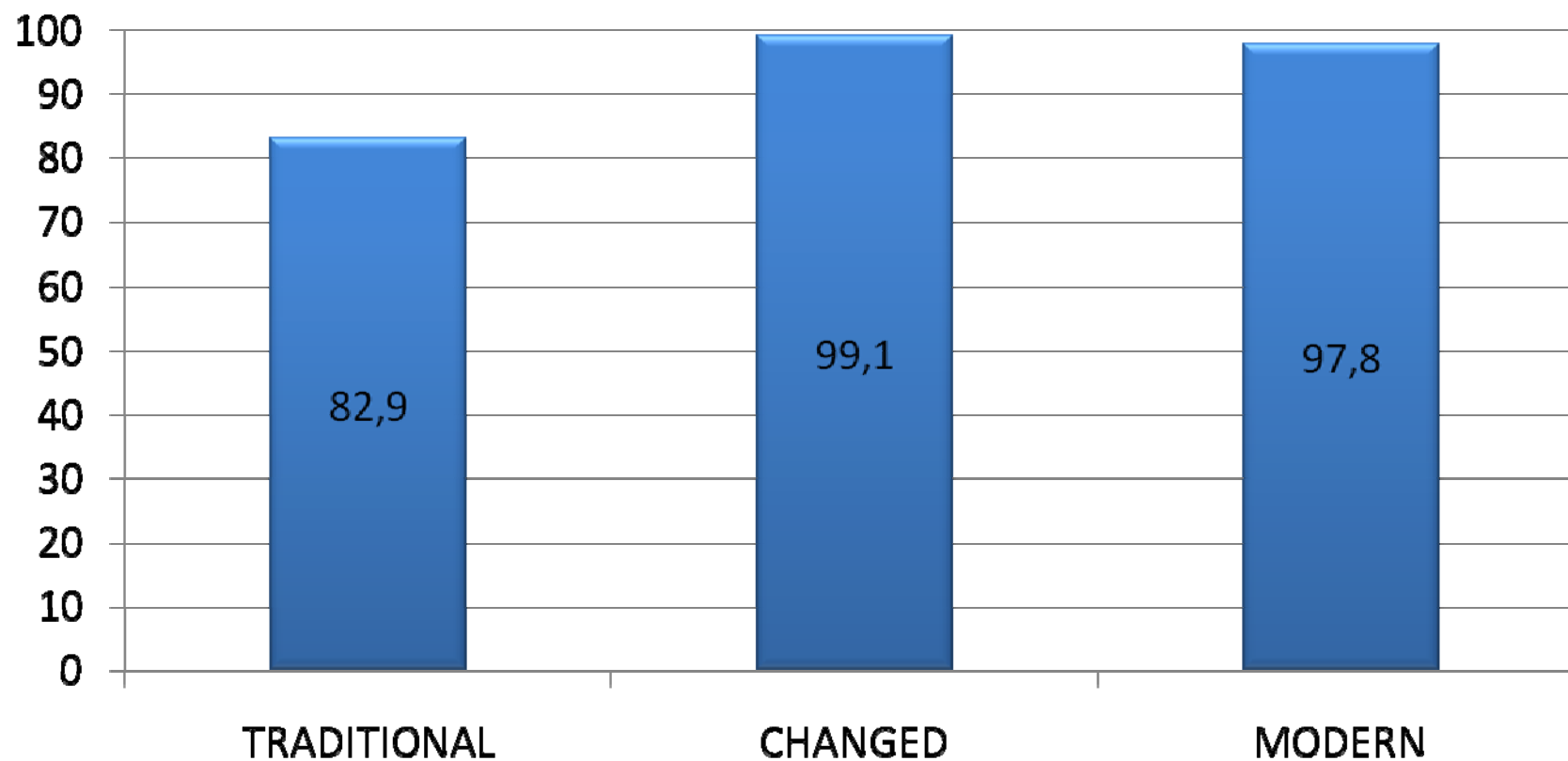
Share of farms that experienced their milk to be refused due to poor quality



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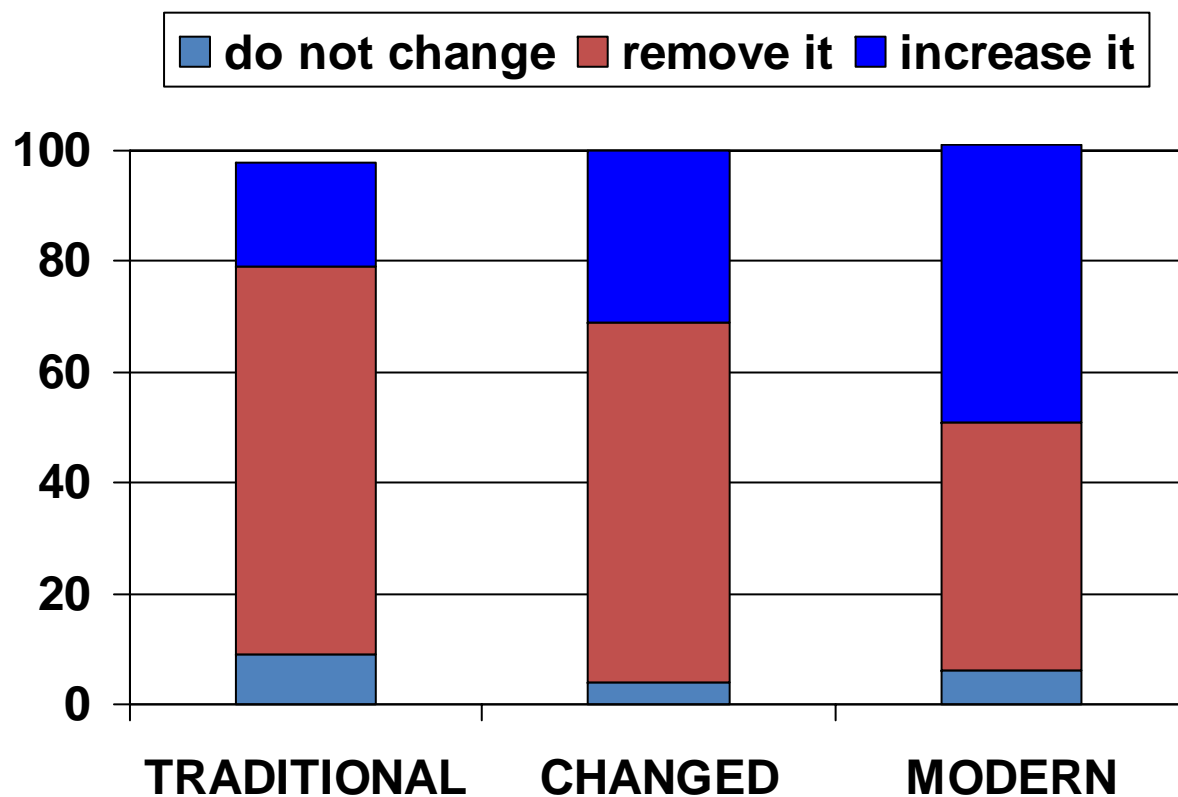
Share of farms with written contract



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What should be done about the milk quota system



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Policy recommendations

- further restructuring should be encouraged since it is beneficial to farmers and reduces rural poverty
- access to external funding crucial => microcredit programmes
- number of farms will withdraw from dairy production => financial education & non-agricultural income sources
- more market-oriented dairy policy in the EU expected => informational actions
- closer look should be given to the issue of farmers' cooperation

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Thank you for your attention

