



European Commission
Agriculture and Rural Development

Distribution of value added, price transmission and price monitoring

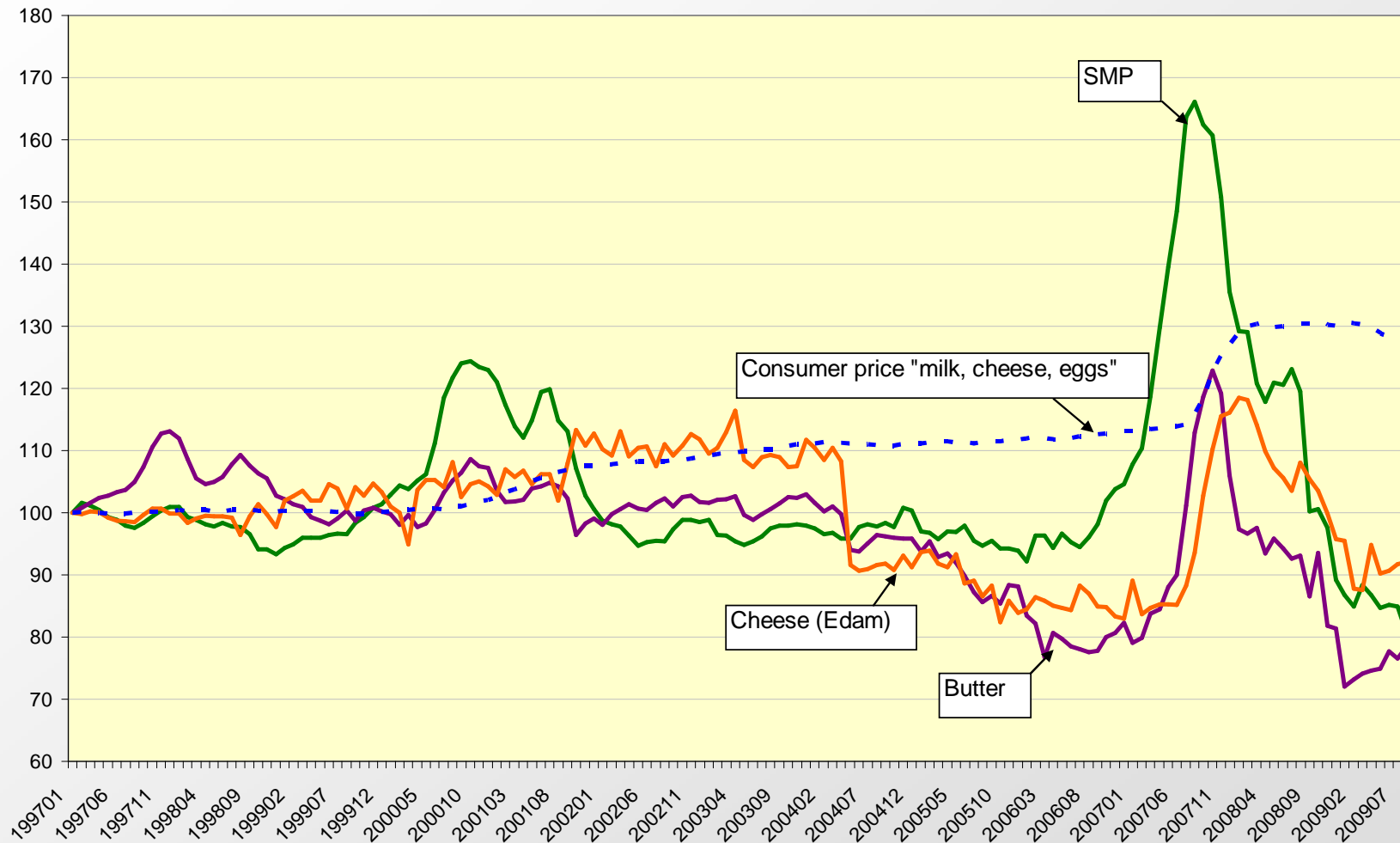
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DG AGRI European Commission

Context

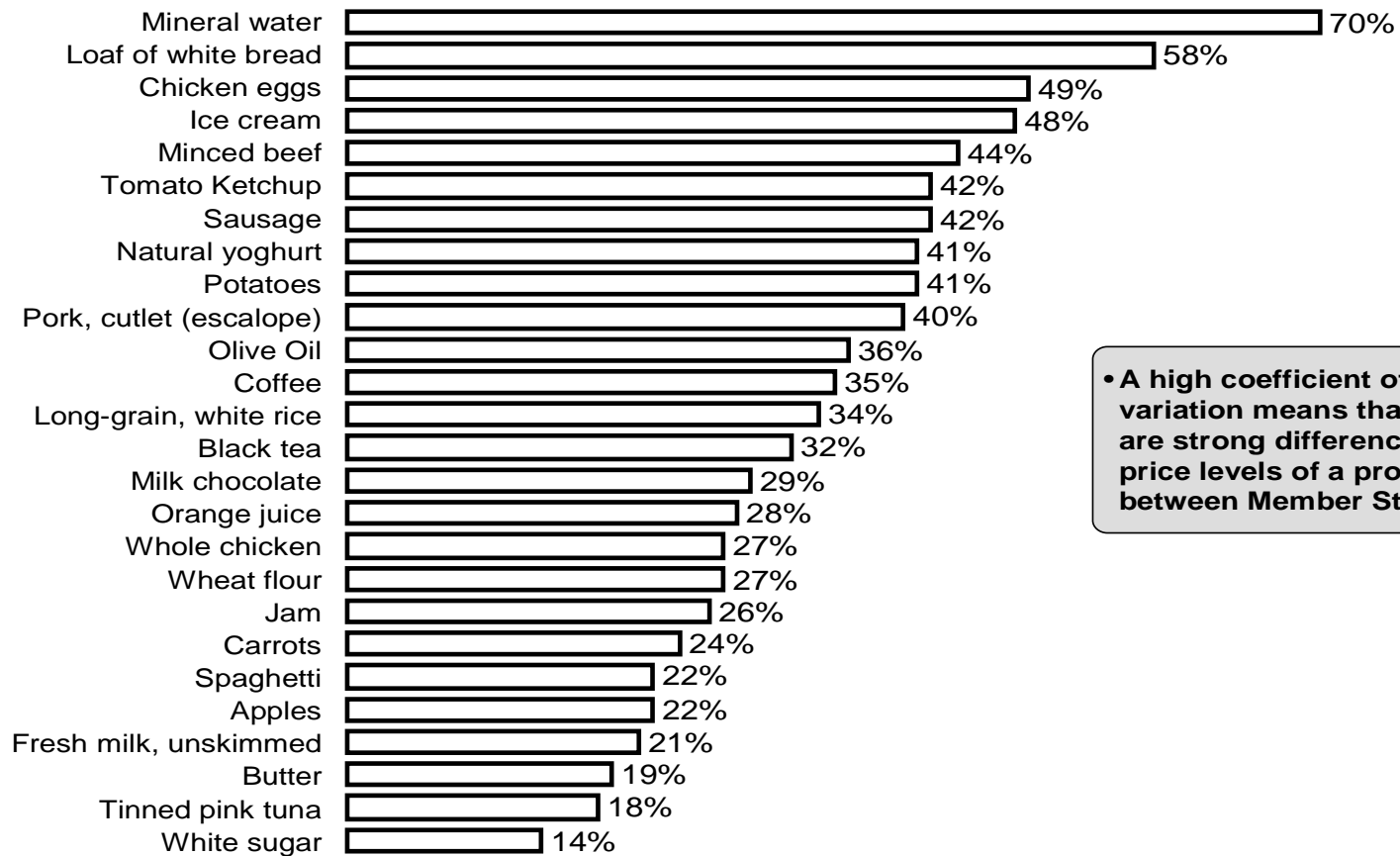
- Surge in agricultural commodity prices (until spring 2008)
- May 2008 Communication (COM(2008)321)
 - ⇒ Set up three task forces (monitoring price developments, analysing the role of speculation and investigating the functioning of the food supply chain)
- December 2008 Communication (COM(2008)821)
 - ⇒ Set out a roadmap (competitiveness, competition and consumer protection, regulation, monitoring and speculation)
- Retail market monitoring exercise (Single Market Review)
- Dramatic decline in many agricultural commodity prices since mid-2008, whereas food consumer prices remain at high levels ...

Development of prices in the dairy supply chain (EU, Jan 2000 = 100)



Dispersion of price levels for selected products across EU Member States

Coefficient of variation of prices selected food products across Member States; June 2008



• A high coefficient of variation means that there are strong differences in price levels of a product between Member States

Source: European food prices monitoring tool; EUROSTAT

Commission roadmap for follow-up on food supply chain market monitoring

Competitiveness

- Promote competitiveness of the Food Supply Chain **(High-Level Group on Agro-food competitiveness)**

Competition and Consumer protection

- Identification of potential main anti-competitive practices **(with national competition authorities)**
- Clarification of bargaining power repartition along the chain
- Enforcement of consumer protection rules **(unit pricing, unfair commercial practices directives)**

Regulation

- Review of regulation potentially hampering competitiveness and integration **(entry barriers, ability to compete on prices, shop opening hours)**

Monitoring

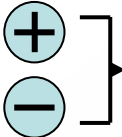
- Design and set-up of an permanent tool to monitor food prices and pass-through along the chain

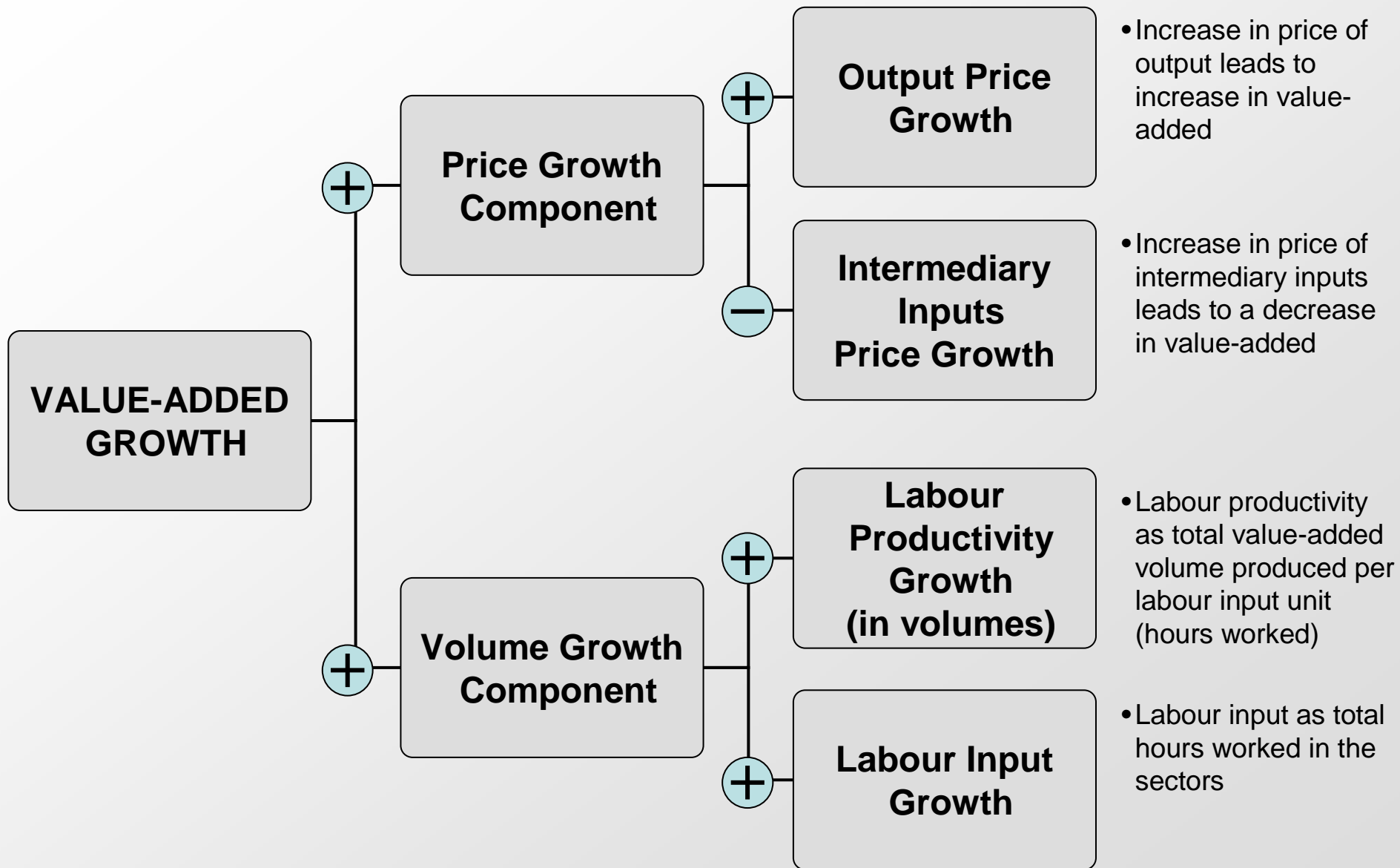
Speculation

- Analysis of measures to discourage non-commercial speculation on agricultural commodity prices

In this framework, work has been carried out in ...

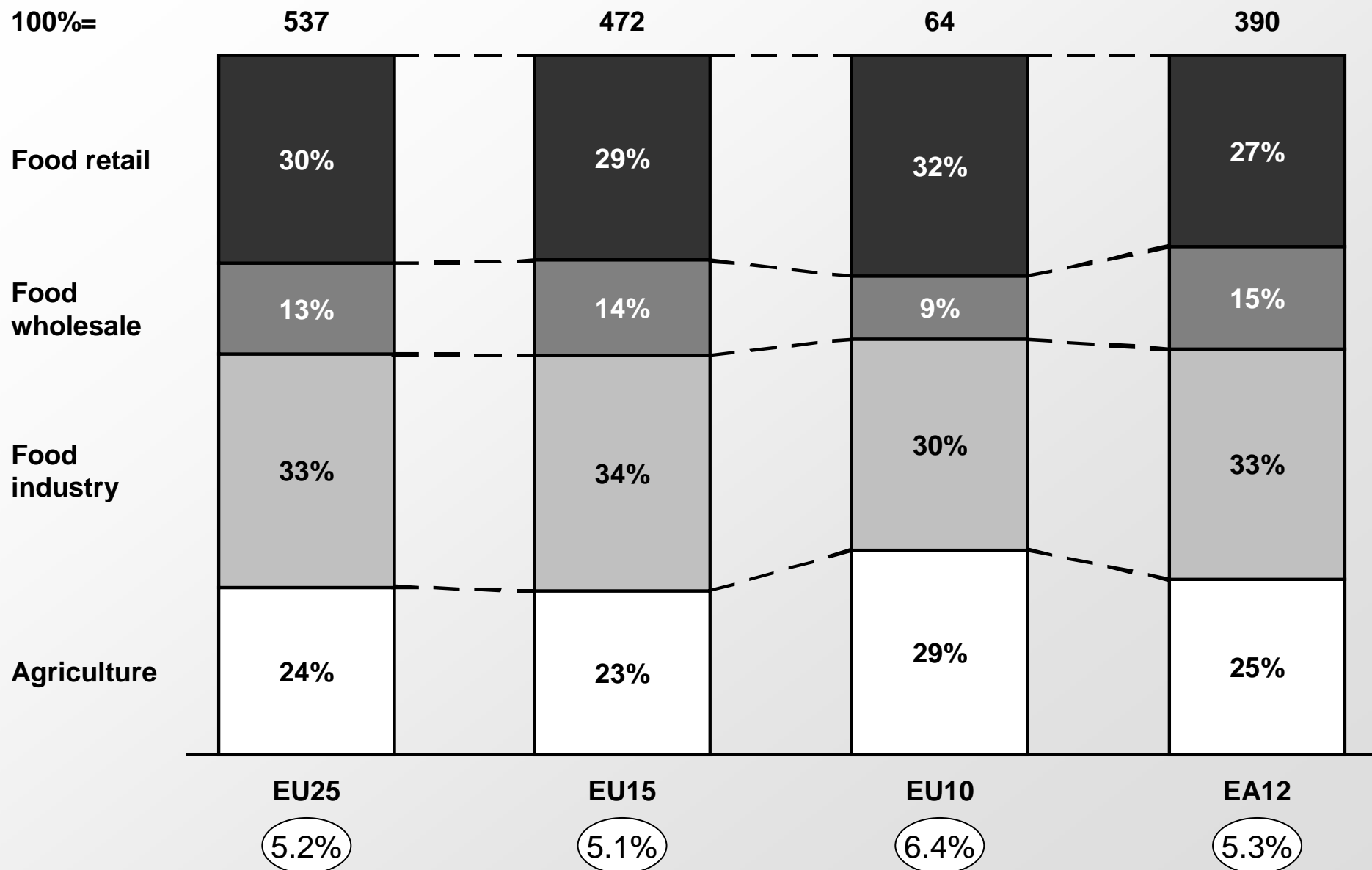
- Transparency
- Relations between the actors of the food supply chain
- Enhancement of the competitiveness of the food supply chain
- The distribution of value added and price transmission

 Indicates the effect of indicator increase on value-added growth



2005 data; € billions (current)

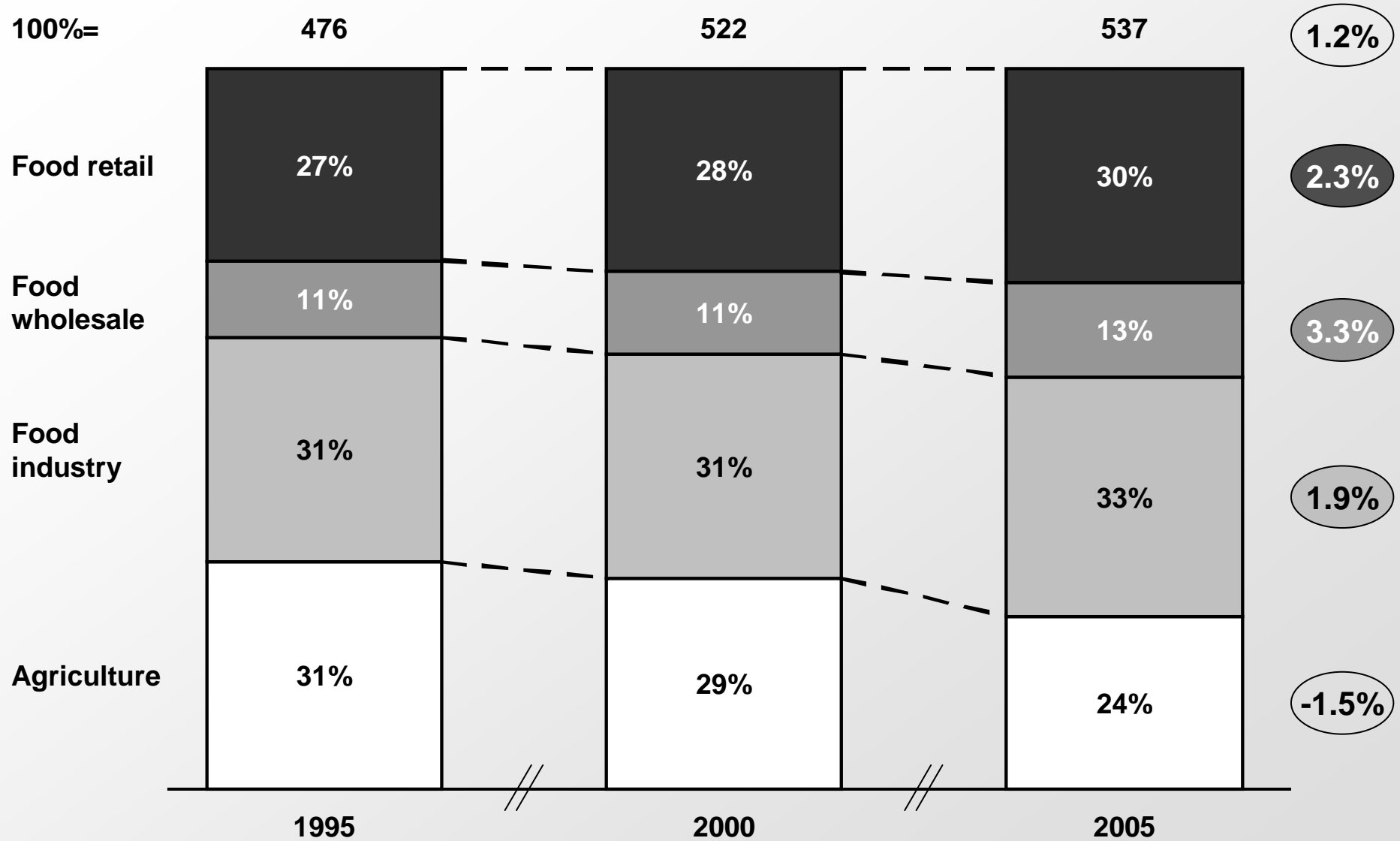
xx% Share of food supply chain in total value-added



Source: EU KLEMS, EUROSTAT Structural Business Statistics

EU25; 1995-2005 data; € billions (current)

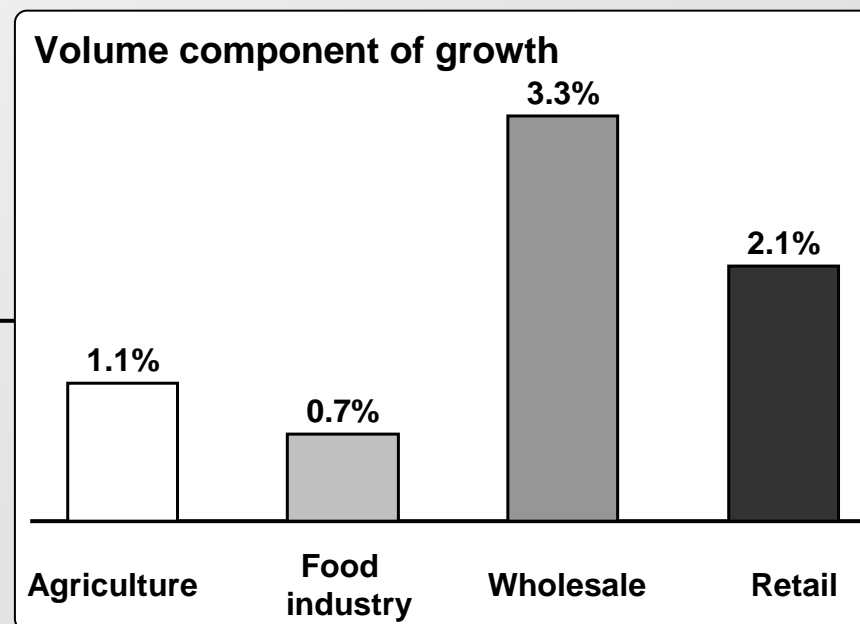
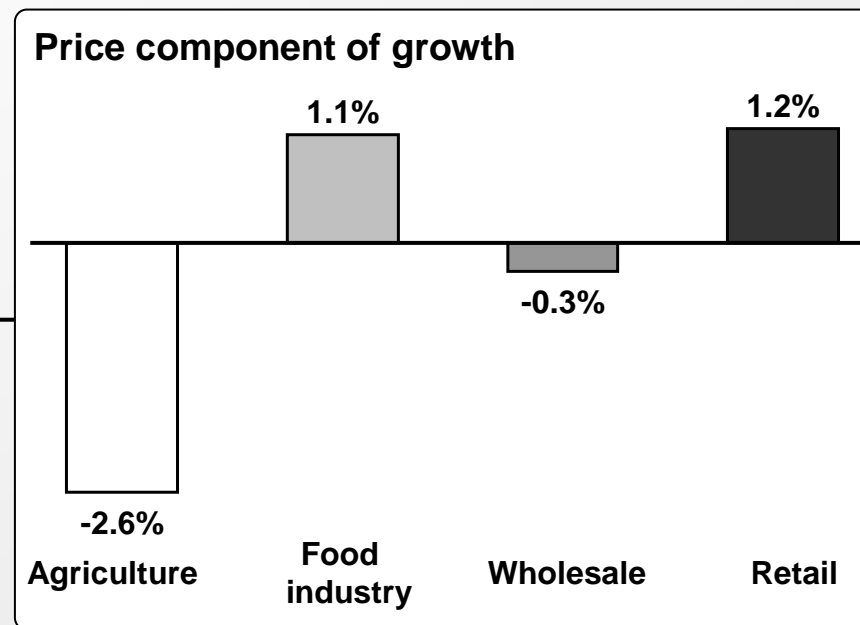
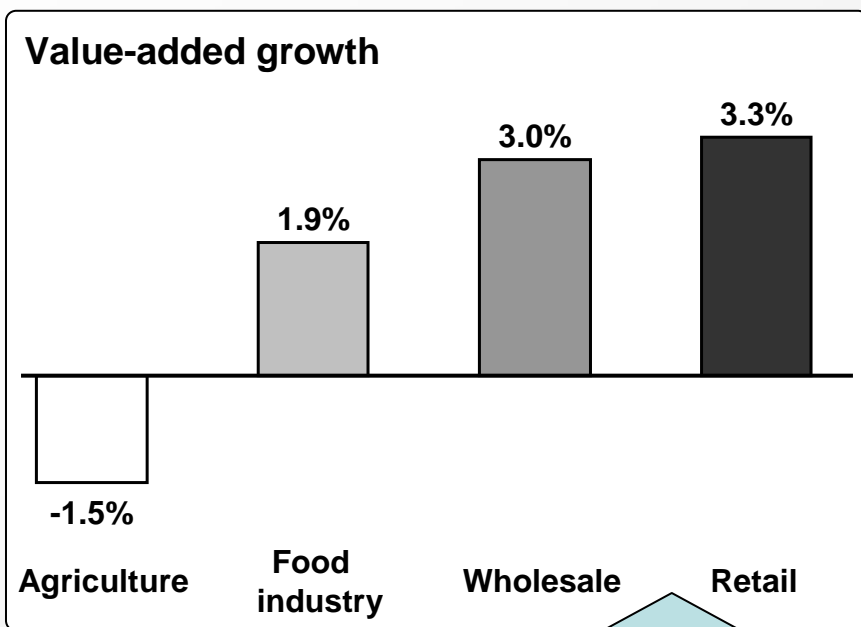
xx% 1995-2005 annual growth rate



Source: EU KLEMS, EUROSTAT Structural Business Statistics

EU25; 1995-2005 annual growth rate

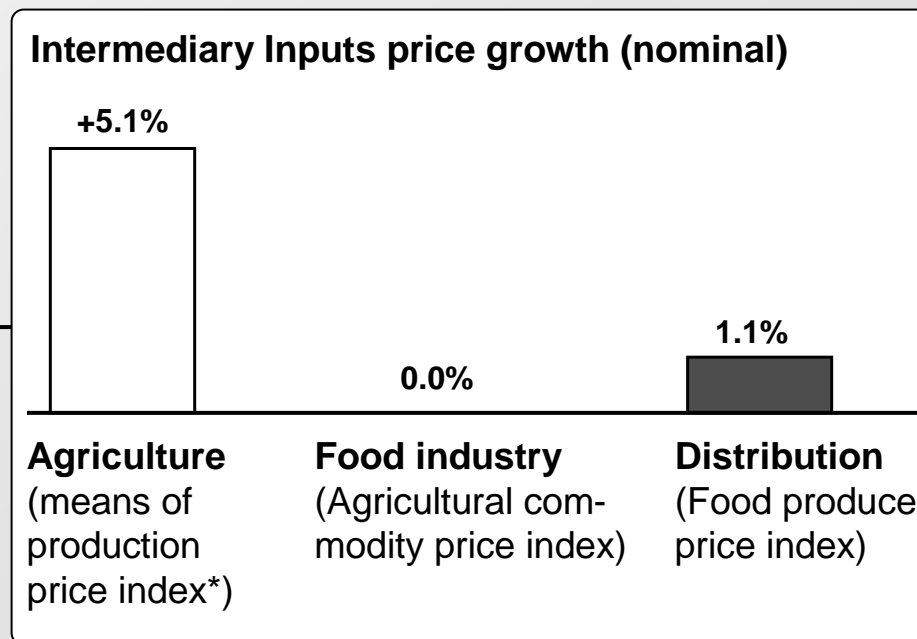
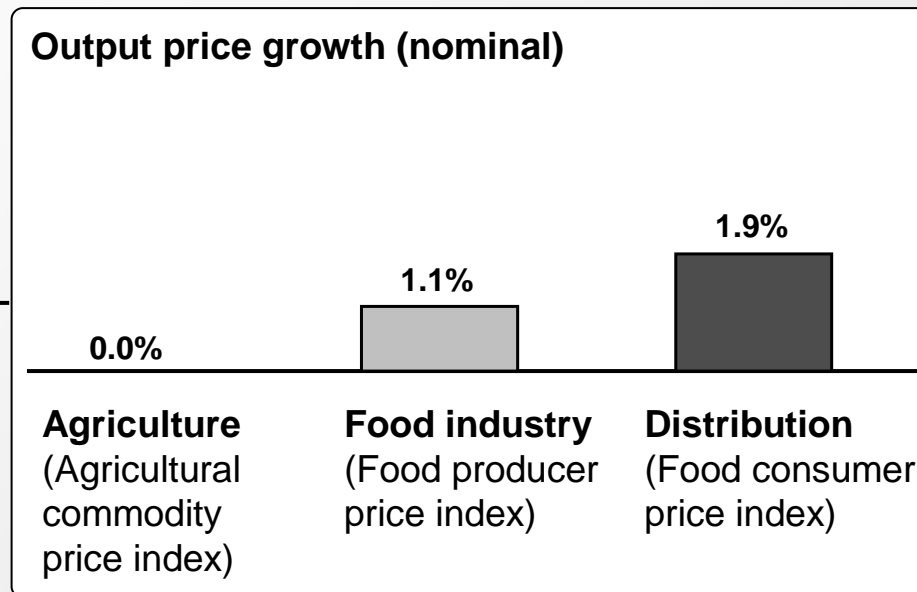
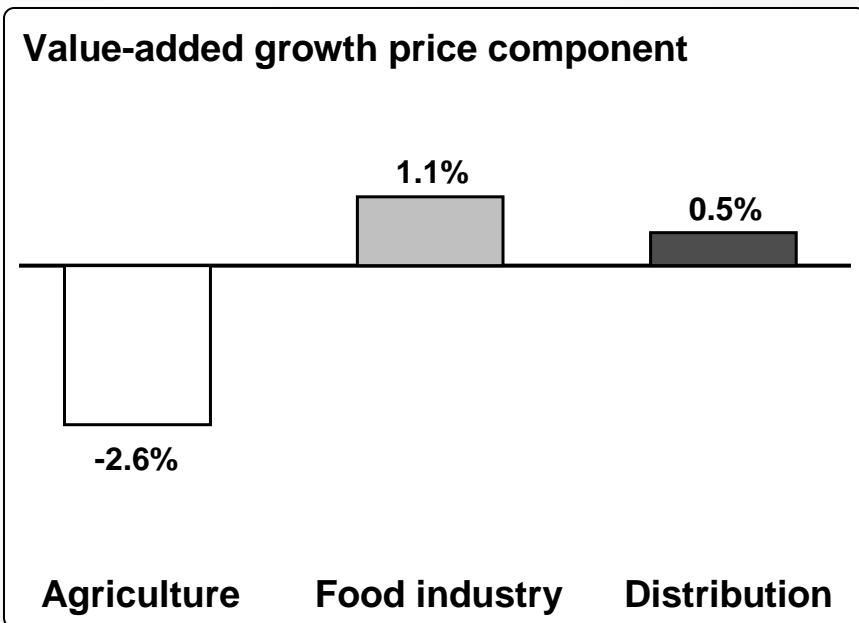
+ } Indicates the effect of indicator increase on value-added growth
- }



- Value-added growth for total wholesale and retail sector (not only food) since no price x volume growth breakdown available for food distribution
- Food wholesale value-added annual growth 1995-2005 is 3.3%; food retail is 2.3%

EU25; 1995-2005 annual growth rate

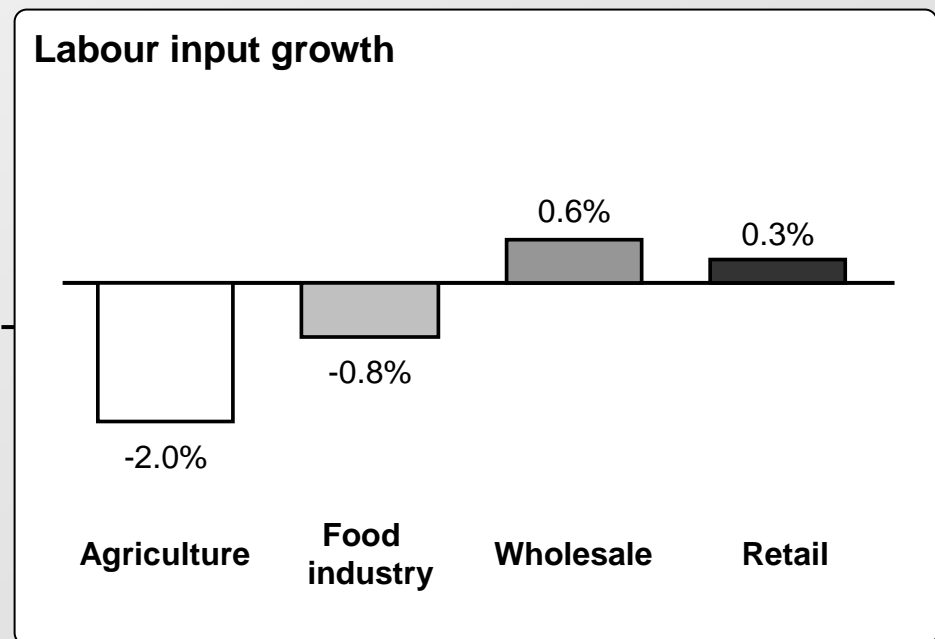
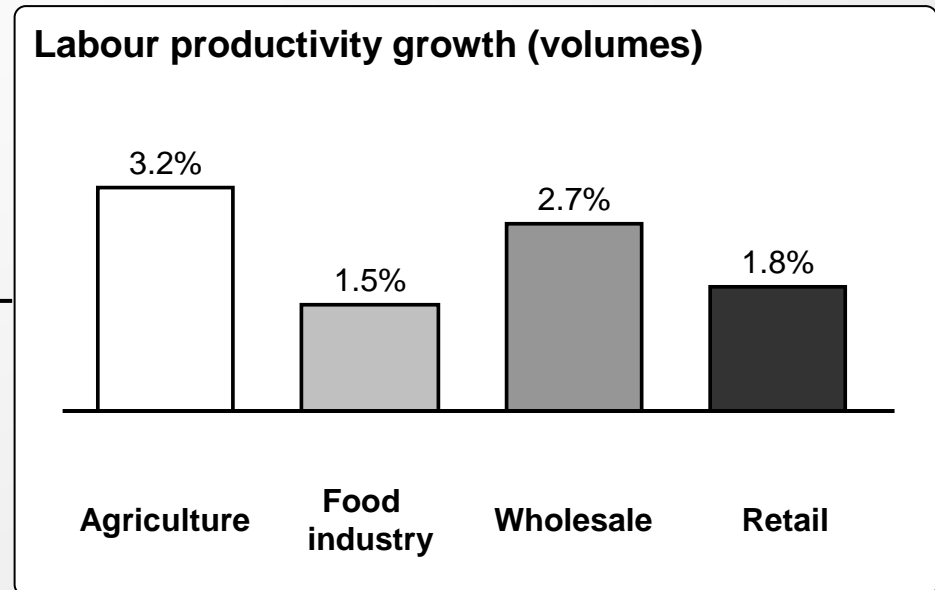
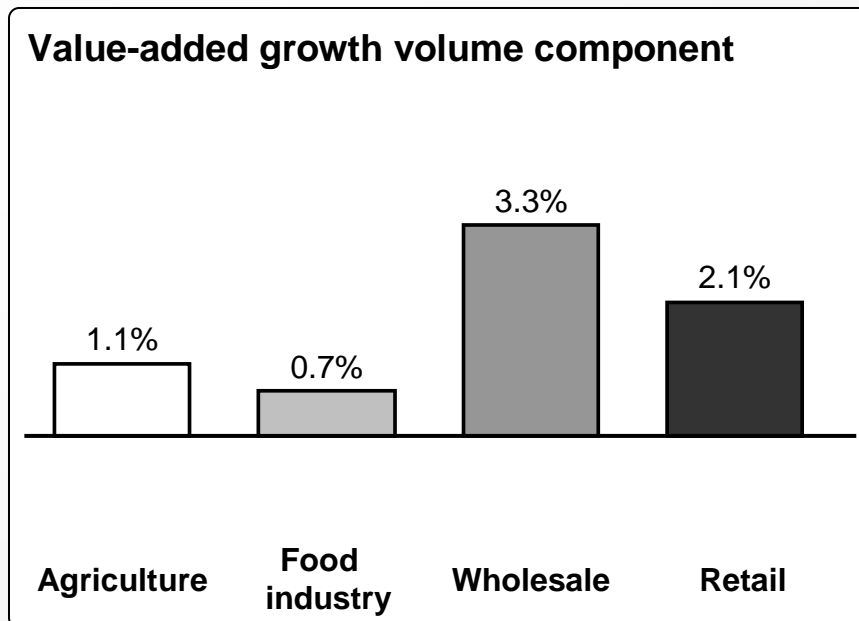
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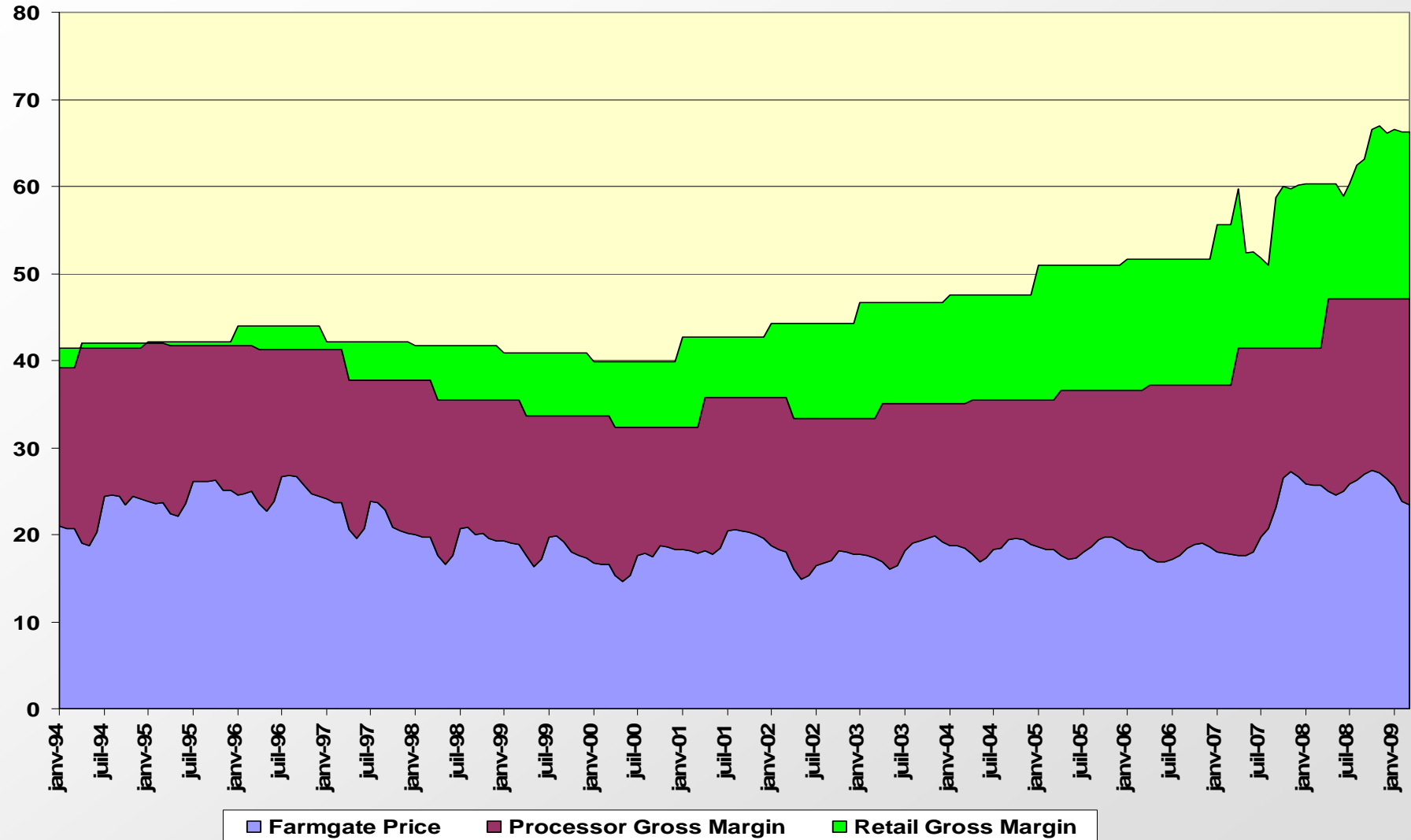
* Goods and services only

EU25; 1995-2005 annual growth rate

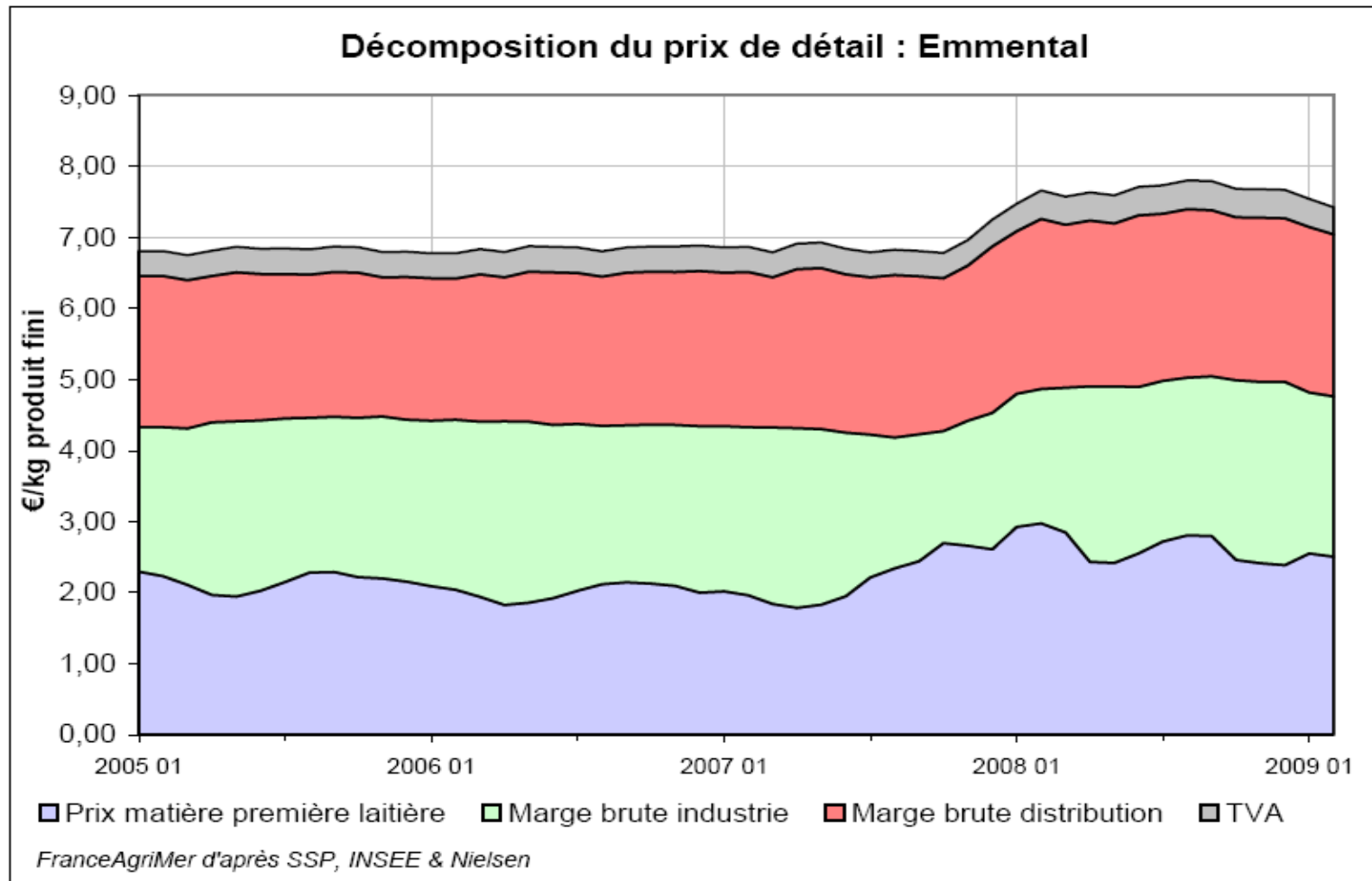
+ } Indicates the effect of indicator increase on value-added growth
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Development in the liquid milk margins (UK, 1994 – 2009)



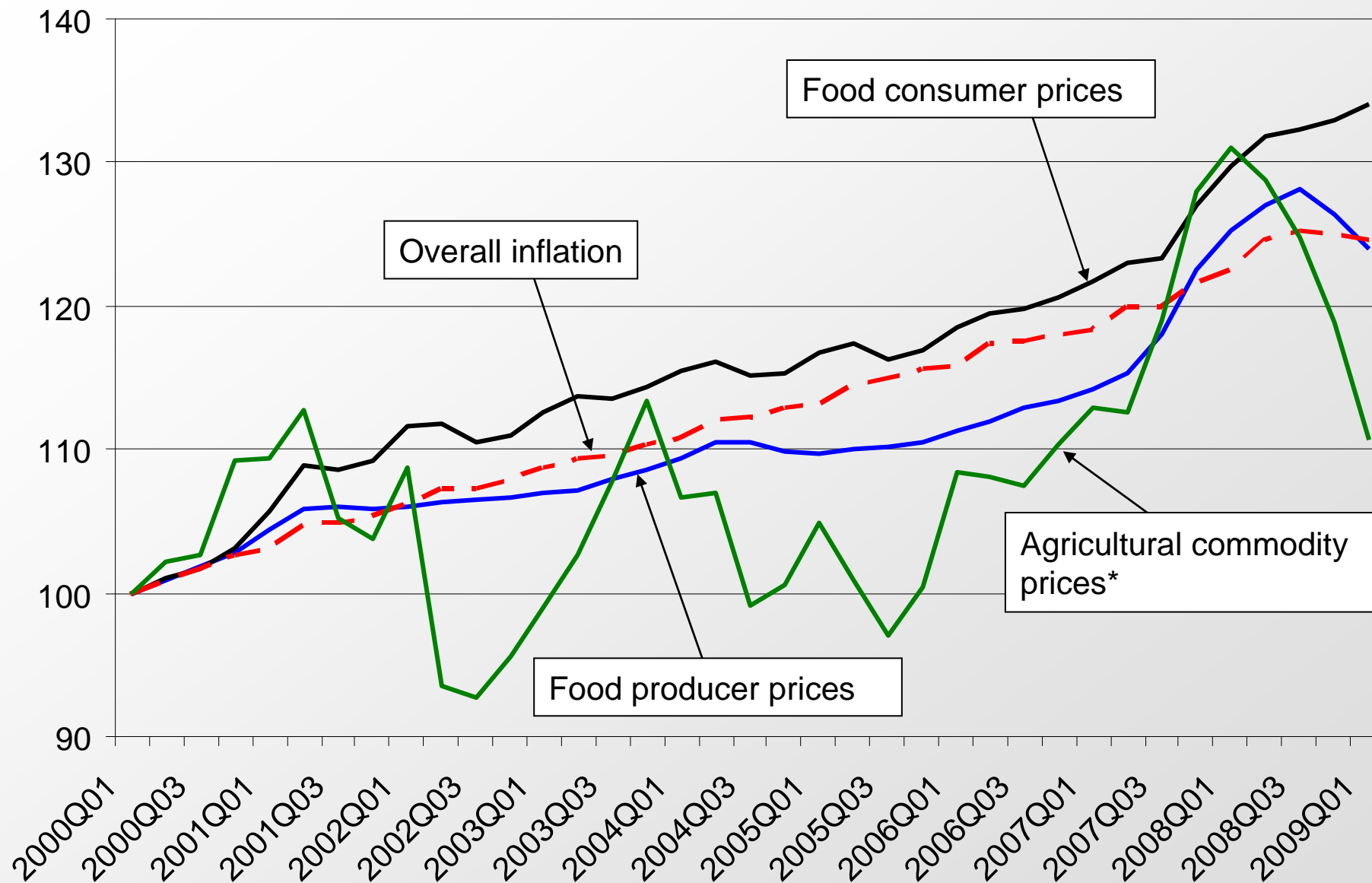
Development in the margins of Emmental (France, euro/kg)



Price transmission

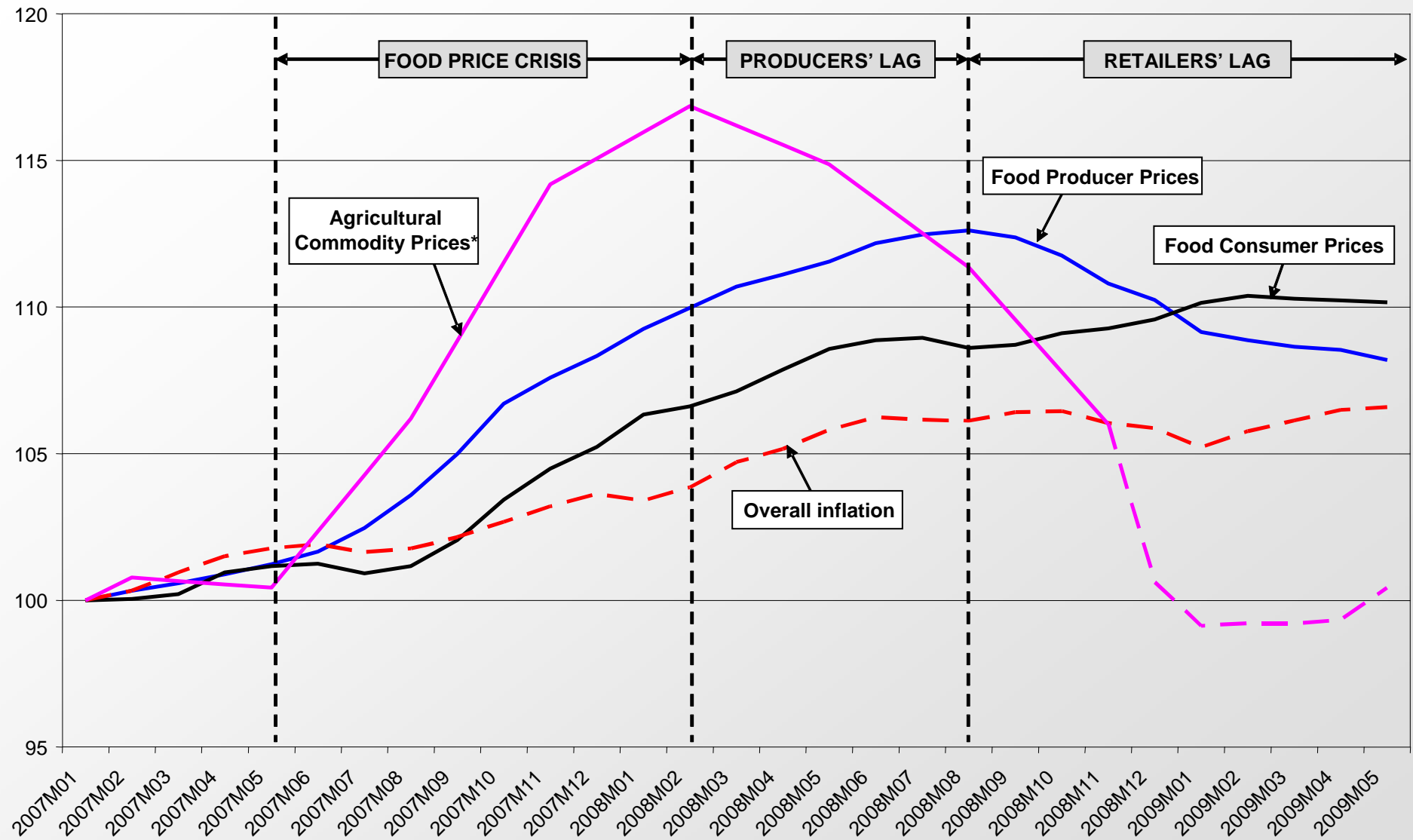
- Objectives: assessment of magnitude, speed and asymmetry of price transmission to assess effectiveness – efficiency of the chain
- Methodology: statistical/econometric analysis (causality, co-integration, asymmetry tests etc.) at aggregate level & for the dairy and pork supply chain
- Limitations of the analysis: data quality, diversity of situation across products and countries, measurement (but no causation)
- Imperfect price transmission does not necessarily mean market malfunctioning (e.g. low share of agricultural commodity in total cost of food products, marketing strategies – price levelling, perishable nature of many food products, long-term contracts etc.)

Q1 2000- Q1 2009; Quarterly price indices (nominal); 2000Q1=100



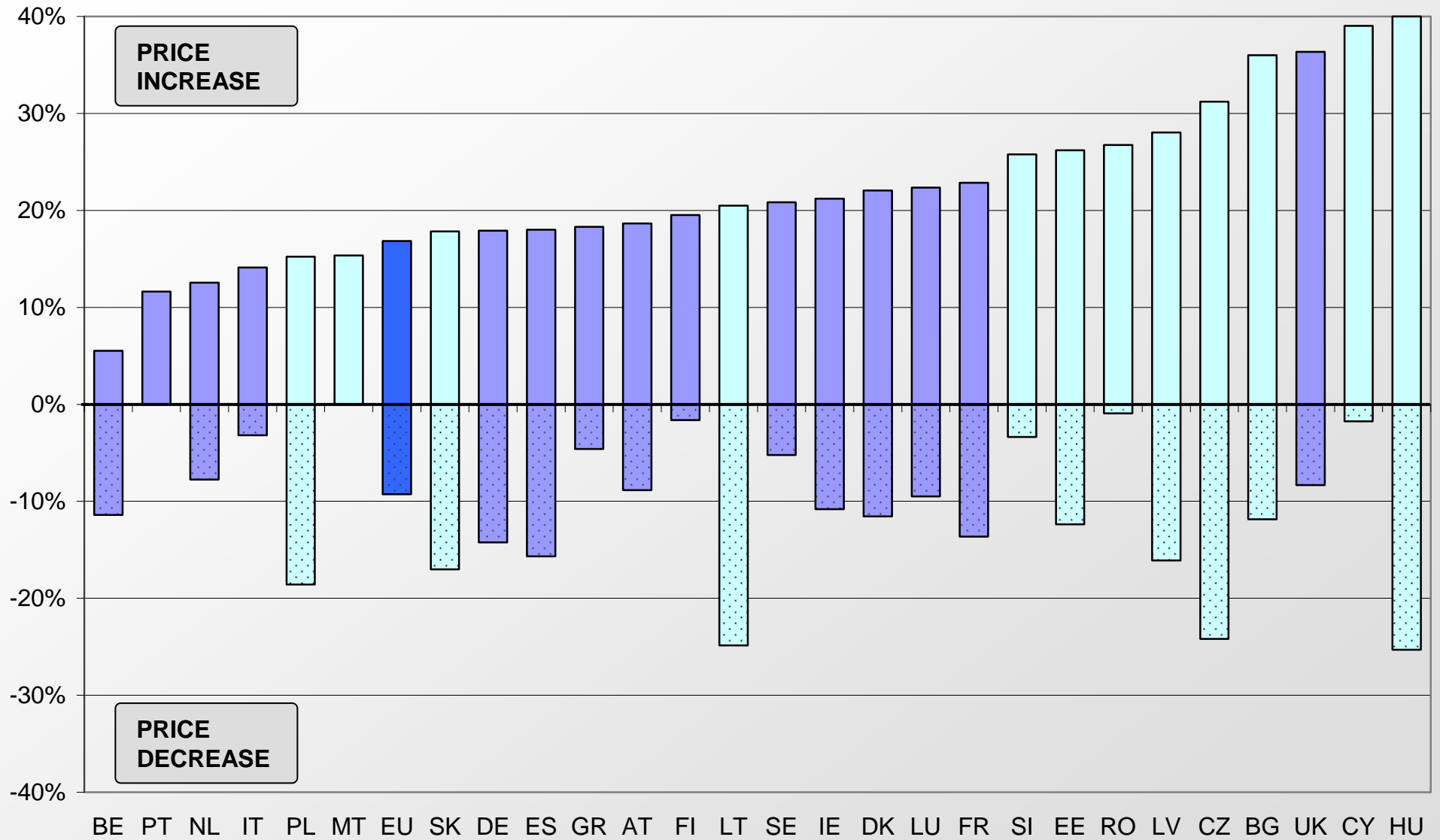
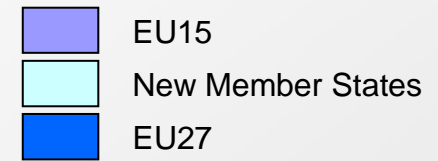
* Agricultural commodity price index has been extrapolated for 2009Q1 based on price levels of major commodities

January 2007-May 2009; Monthly price indices (nominal); 2007M01=100



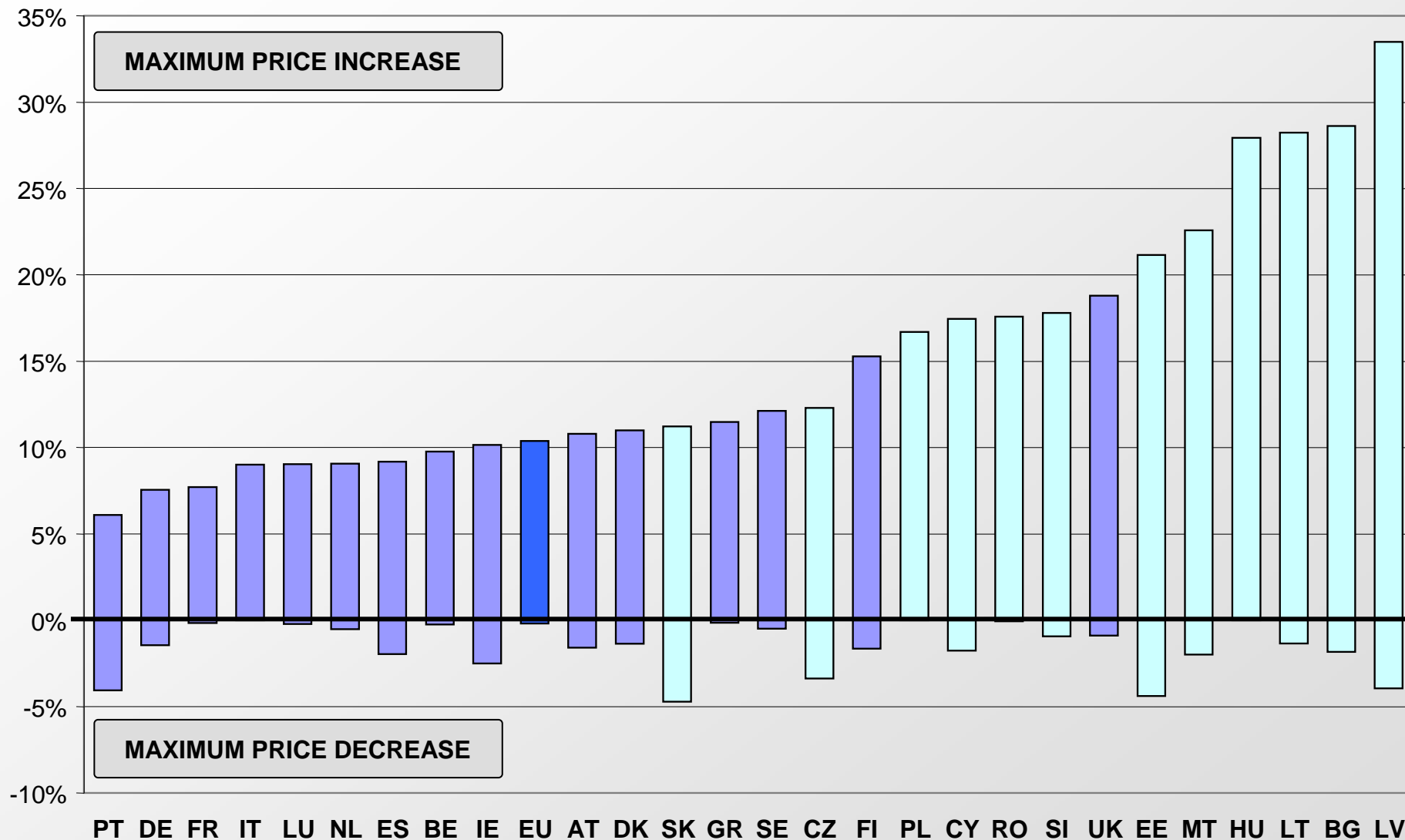
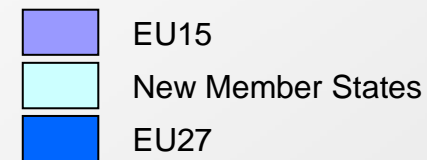
* Agricultural commodity price index has been extrapolated from January 2009 on based on price levels of major commodities (Agriviews)

Maximum nominal agricultural commodity price increase and decrease between January 2007 and May 2009; %





Source: EUROSTAT

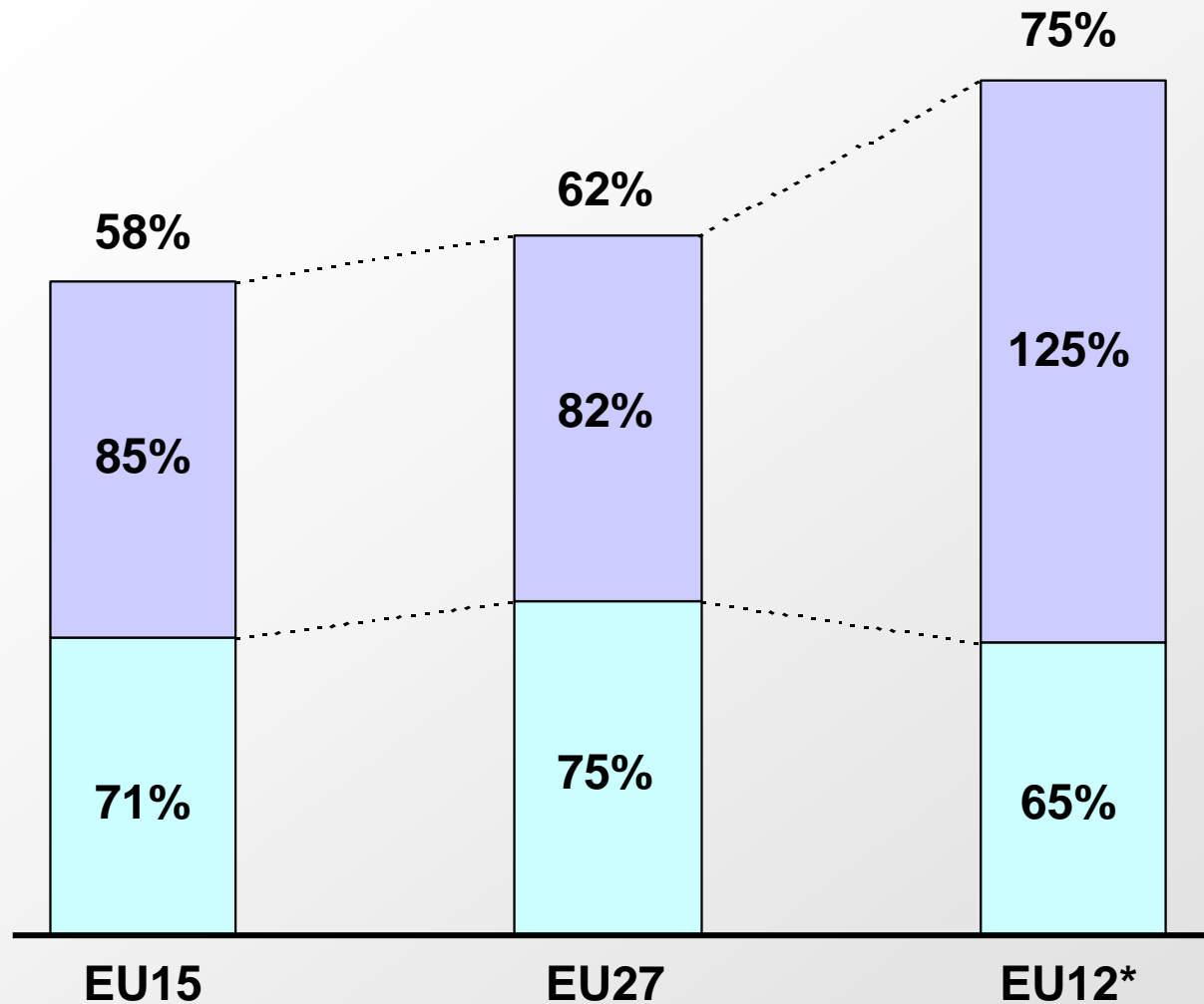
Maximum nominal food consumer price increase and decrease between January 2007 and May 2009; %



Source: EUROSTAT

Maximum increase in food consumer prices over maximum increase in agricultural commodities prices (pass-through) between January 2007 and May 2009; %

-  Producer to consumer prices pass-through
-  Agricultural commodity to producer prices pass-through

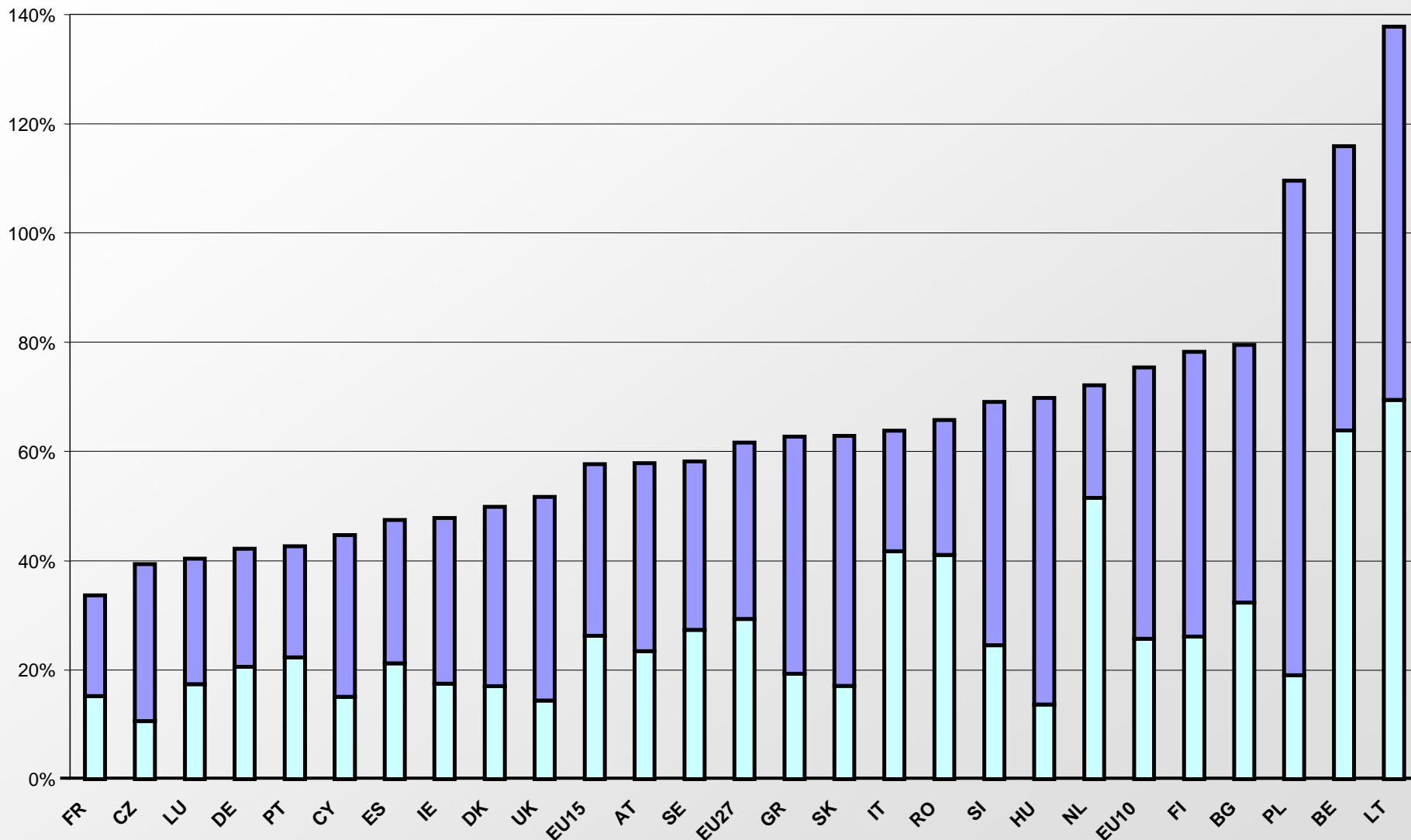


- In the EU27, maximum consumer price increase has been ~60% of maximum agricultural price increase
- Contributions from agricultural commodity to producer prices and from producer to consumer prices pass-through have been of similar magnitude, respectively 75% and 82%

* Excluding EE, LV and MT for which no data on food producer prices are available

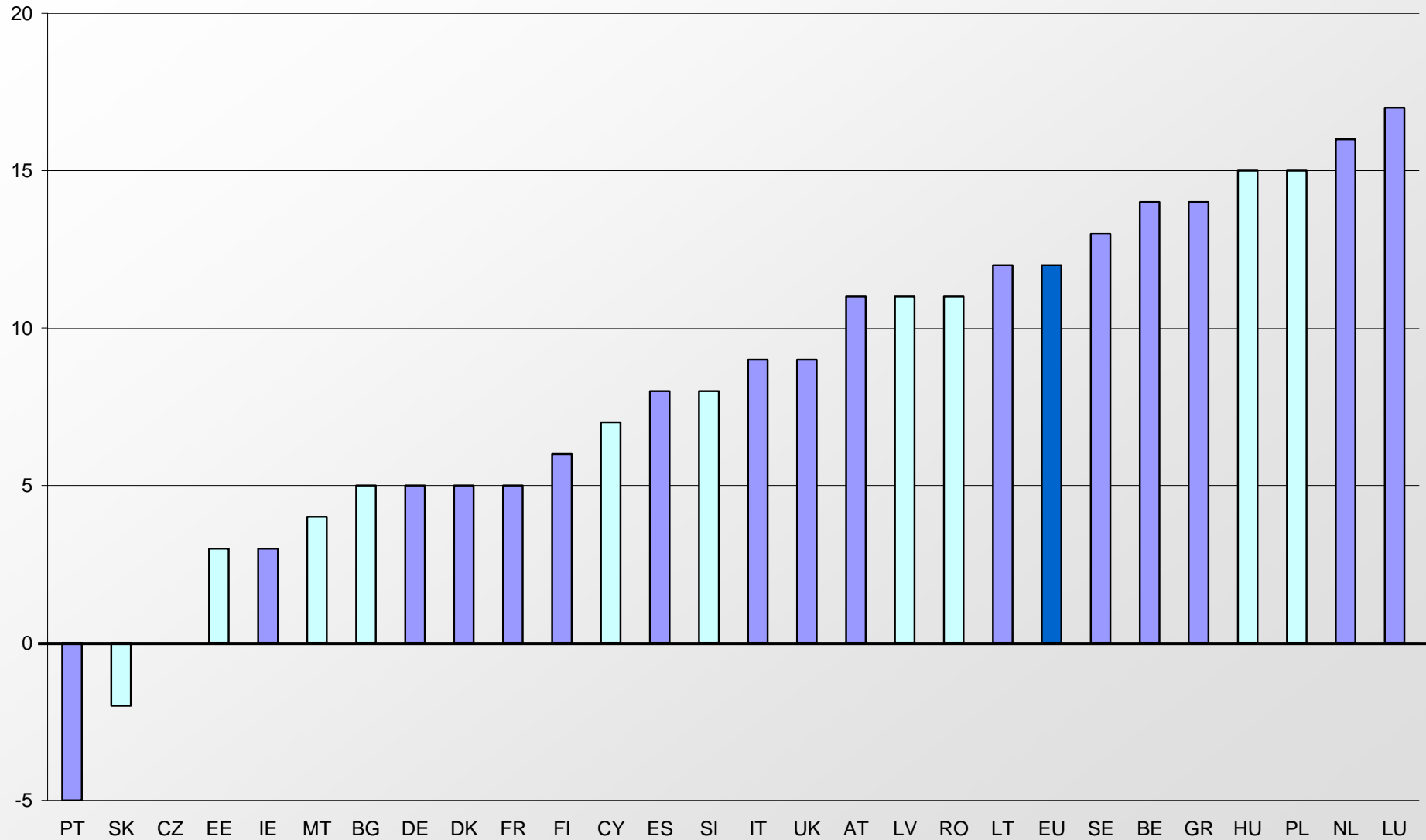
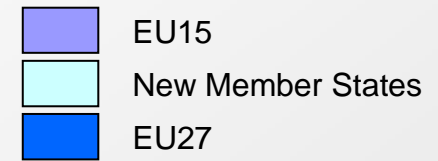
Maximum increase in food consumer prices over maximum increase in agricultural commodities prices (pass-through) between January 2007 and May 2009; %

- Contribution of producer to consumer prices pass-through
- Contribution of agricultural commodity to producer prices pass-through



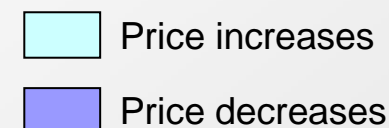
Source: EUROSTAT

Lags in consumer price decrease following agricultural commodity price decrease; number of months

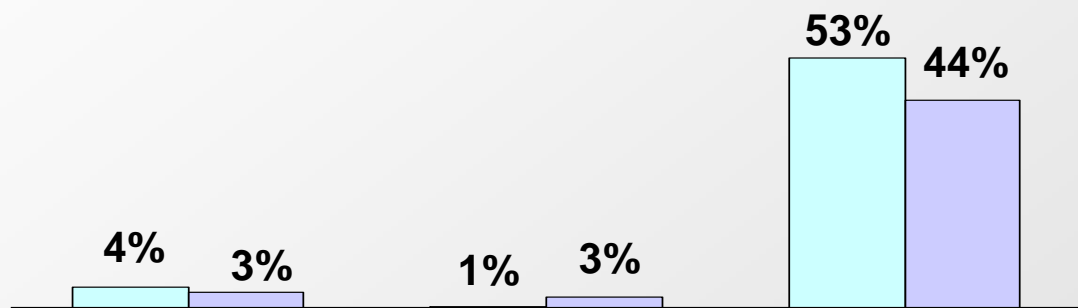


Source: EUROSTAT

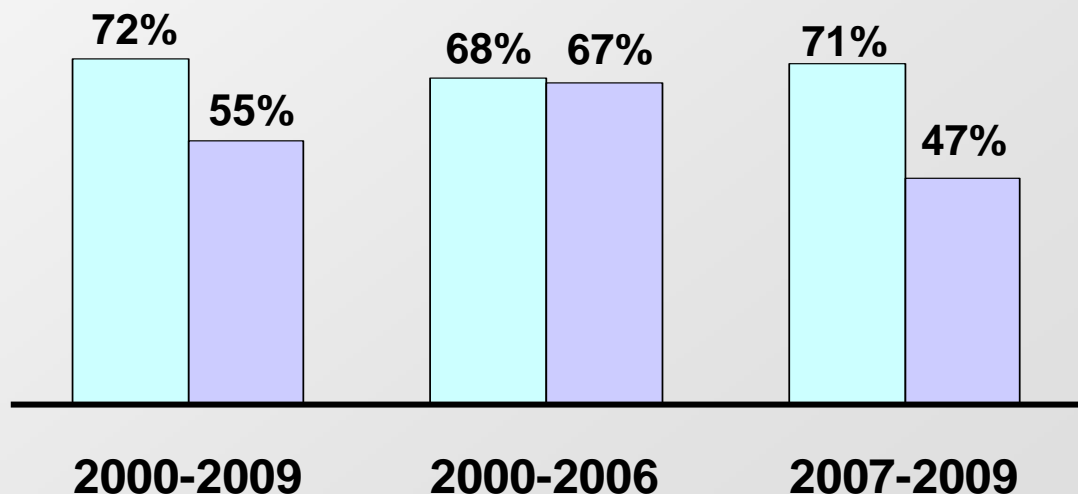
Pass-through of price increases and price decreases along the food supply chain in the EU



Pass-through from agricultural commodity prices to food producer prices – Up to 6-month lags



Pass-through from food producer prices to food consumer prices – Up to 3-month lags*



* Calculating pass-through with 6-month lags is not possible for price decreases over the 2007-2009 period, given the lack of occurrence of price decreases over the period; for the other period, the 6-month lagged producer price variation has no significant impact on consumer prices

Price transmission – Main (provisional) findings

- Low price transmission between agricultural sector and food industry, but high price transmission between food industry and retail sector
- Major change after the price surge in 2007 (“rocket and feather” pattern)
- Major differences across Member States (~ EU-15 vs. EU-12)
- Price transmission is not “mechanical”, difficult to assess, explain and foresee

Distribution of value added and price transmission along the food chain

Some issues

- Is this situation in terms of distribution of value added sustainable for the food chain ?
- Bargaining power: how to improve the current imbalance to achieve a fairer distribution of value added (at least socially). What about the development of producer's organisation, further restructuring?
- Price transmission: an improved transmission of price changes would ensure a better adjustment along the chain (though a partial price transmission may be due to other factors than anti-competitive behaviour and/or imbalanced bargaining power)
- Transparency: improved availability of information on prices and margins along the chain would exert pressure on the chain

Food price monitoring tool

Key objectives

- Monitoring price levels for a set of food products: to evaluate price dispersion across Member States
- Monitoring price changes at each stage of the food supply chain for a set of product chains: to evaluate the price transmission mechanism at Member State level and the level of margins

STRUCTURE OF FOOD SUPPLY CHAIN MONITORING TOOL

		Agriculture	Food Industry	Retail
Price levels	Product chain 1	<ul style="list-style-type: none"> • DG AGRI database covering a large scope of agricultural commodities • Monthly updates 	<ul style="list-style-type: none"> • No information on food producer price levels 	<ul style="list-style-type: none"> • Price levels in 2008 and 2009 (1 annual occurrence) for ~30 products through HICP collection/ Consumer Market Scoreboard
	Product chain 2			
	...			
	...			
	...			
	Product chain n			
Price changes	Product chain 1	<ul style="list-style-type: none"> • Agricultural Commodity prices indices available with ESTAT and/or DG AGRI Database • Monthly updates 	<ul style="list-style-type: none"> • Food Producer price indices available in ESTAT Short-Term Business Statistics • Monthly updates • Indices at Activity level (NACE classification) 	<ul style="list-style-type: none"> • HICP for food products • Monthly updates • Indices available at category level (COICOP classification)
	Product chain 2			
	...			
	...			
	...			
	Product chain 10			

Distribution of value added along the food chain, price transmission, food price monitoring tool

Next steps

- New report on the functioning of the food supply chain to address these issues planned for end of 2009, including the implementation of the Roadmap from the December 2008 Food Price Communication
- Need for caution when drawing general policy conclusions and recommendations from analytical and empirical findings on these issues (despite evidence of some inefficiencies in market functioning and partial price transmission along the food supply chain)