

### Regulatory Framework and Effect on Taste

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# Is the Regulatory Framework Organic taste Affecting Sensory Properties?

> Do standard requirements/ differences have a relevant direct or indirect impact on sensory properties?



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- > If yes, are there really relevant differences in standards and regulations?
- > Hypothesis:

regulations

> Quality guidelines or Codes of Practise of private companies have a higher influence on taste than standards and



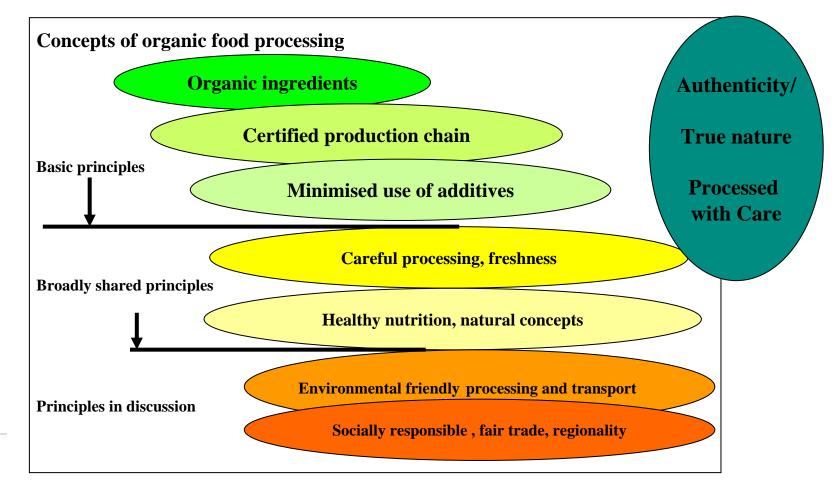
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#### WP 1 Analysis of Regulatory Framework Affecting Sensory Properties – Main Focus

- Main focus on the specific requirements of public regulations and private standards for organic production which affect sensory properties.
- Focus on the new Council Regulation (EC No 834/2007) and the related rules for implementation (EC No. 884/2008)
- In addition, the most important private standards and governmental regulations for organic food and farming in the countries involved will be analysed,
- Main phasis of the analysis will be on the requirements for processing (e.g. use or non-use of specific additives).



### Underlying Principles for Organic Food Processing



Source: EU project Quality of low input food, 2006

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organic taste

#### Relevant Standards Restrictions with Impact on Taste: Animal Products

Prod grou		EU Organic Regulation 834/2007 /884/2008	Private Standards (e.g. Bio Suisse)	Company quality guidelines/code
Milk prod e.g.	ucts	Exclusion of articial flavours,	No lactic and other non-milk based acids;	Exclusion of plant based thickeners, restricted sugar;
joghu	urts		No natural flavours at all	
Melte Chee		No phosphates (instead citrates)		
Meat prod	ucts	No phosphates, No glutamates; Restricted use of nitrates/ nitrites & Ascorbates	No flavours (even not natural ones),	Exclusion of nitrates/ascorbat es

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#### Standards Restrictions as a Chance to Search for Innovative Processing Concepts



- The strong restrictions for additives and the minimal processing concepts is a incentive for searching new innovative methods, e.g. the use of functional ingredients
  - > See example: ice cream, yoghourt.
- > Furthermore, requirements for raw materials regarding ripeness, freshness, fertilisation contribute to taste



#### Freshness:

Fresh, tipe Fruits

#### Taste and authenticity

fragrance



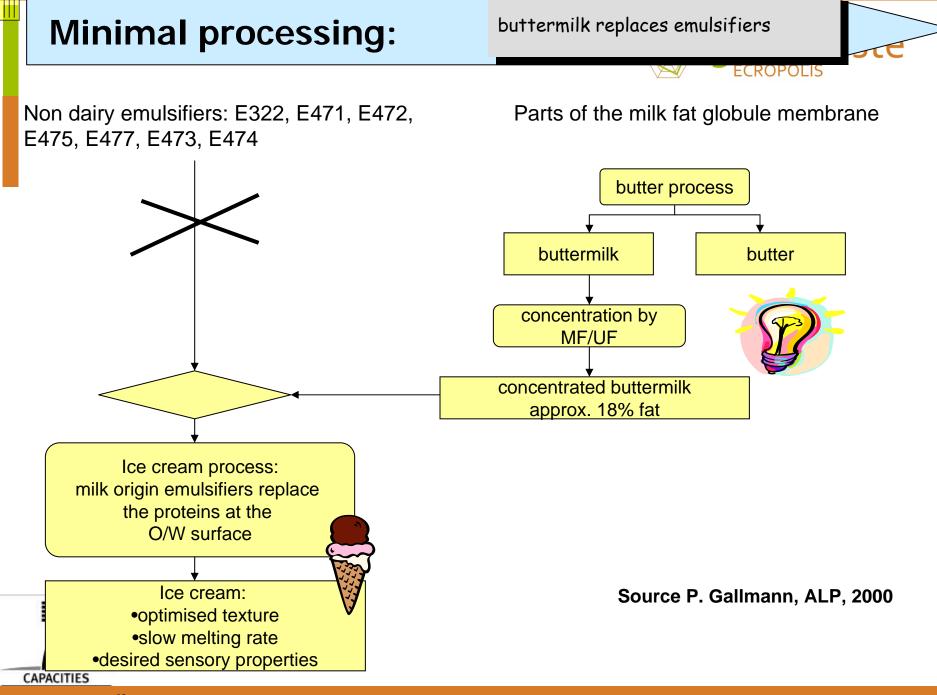
taste

ECROPOLIS



Source P. Gallmann, ALP, 2000

Kruits without flavour

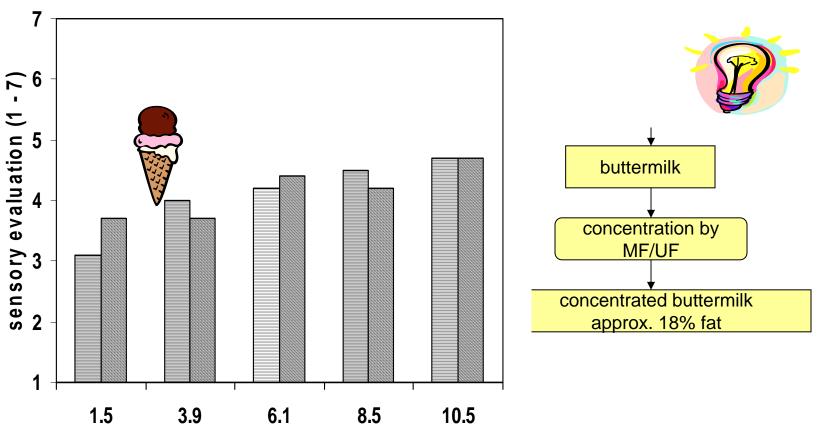


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#### Minimal processing:

#### buttermilk replaces emulsifiers

**ECROPOLIS** 



addition of butter milk concentrate [%]



Effect of added buttermilk concentrate on "creaminess" (crosswise) and "mouthfeeling" (diagonal).

Source P. Gallmann, ALP, 2000

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### **Preliminary Thoughts**



- In production standards both EU Regulation as well as private standards have almost no restrictions, which have a direct or indirect impact on taste.
- In processing, by the fact that only very few additives can be used for organic food based on EU Regulation 834/2007 ff – some acids, preservatives or thickeners or flavour enhancers cannot be used.
- Most differences will be in processing standards of private organisations (e.g. Bio Suisse, Demeter, Bioland), which restrict processing methods as well as some additives (e.g. ascorbic acid).

Some company have internal quality management standards for their producers, which influence taste,

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# Questions for Discussion in Organic taste Plenary

- > Must organic products be the same like conventional ones or should they have an own sensory and quality profile?
- > What are the most relevant production or processing restrictions for optimal taste from a company perspective?
- > Would it be desirable that private organic label organisations develop Organic Quality Mangagment Guidelines or Code of practices (which can be developed to a Code of Conduct for all members)?
- > Which firm/enterprise has special quality requirements/guidelines which are interesting for the project?
  - Please communicate with us we will keep you informed regurlary about the project outcomes



## Interesting Taste Assurance organic taste Concepts

- > Which firms/enterprises have special quality requirements/guidelines, which are interesting for the project
- > Please communicate your own requirements to us we will keep you regularlary informed about the project outcomes
- > Contact for standards issues:
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