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CORE organic



WP4. Assessment framework.

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developed by and with

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Initial situation



- Rising demand for more processed organic foods
- "Farm to fork" strategy (25% organic farmland in 2030)
- Share of organic products and consumption to increase by at least 10% per year in the EU

-> The overall objective is to ensure the credibility of organic farming and processing

-> Good knowledge of the principles of organic processing is necessary!

Instruments with regard to organic food processing



- Discussion paper: Assessment Criteria for Processing Technologies Based on EU Regulation 2018/848

-> Clearness of the legal situation.

- Management Guideline for organic food processors

Support companies in the further development of the practice of organic food processing in terms of integrity, quality, transparency



Microsoft
Excel-Arbeitsblatt

- Assessment frame work

Assessment frame work: the goal



- Evaluate and compare processing technologies holistically on the basis of EU organic principles
 - To create a basis for an objective evaluation
 - To test new technologies for their biocompatibility
 - Supplementary basis for decision-making in the event of technological changes in operation, e.g. replacement investments
 - Systematically apply specific requirements of the organic associations and the legislator when assessing processed products
- > Make decisions uniform and comprehensible

Assessment frame work: why necessary?



- No uniform criteria for the assessment of processing technologies, only "principles".
- No uniform basis for decision-making, neither for associations nor at EU BioVo level.
- Technologies are not recognizable for the consumer, the responsibility lies with the manufacturers and associations
- More restrictiv processing guidelines are under discussion (EU Bio Vo 848/2018)
- Assessment to date "nutritional quality maintained",
- New holistic approach including ecological sustainability, nutritional quality and sensory quality

Assessment framework: how does the tool look like

Based on the results of the case studies, a internet based and structured as follows:

1. Introductory video with the principles of gentle processing as well as the purpose of the methodology
2. Clear leadership in methodology
3. A set of indicators for each criterion
4. Possibility of including additional criteria and indicators
5. Possibility of including additional aspects such as social sustainability or economic sustainability
6. An Excel tool for data maintenance and evaluation

Overview of the evaluation steps

Sensory quality

Nutrient
quality



**Organic food
quality**

Sustainability

1. Environmental sustainability
2. Social sustainability

Assessment framework

Step 1: Define context

Step 2: Determine criteria and indicators

Step 3: Overall assessment

Step I: Define context

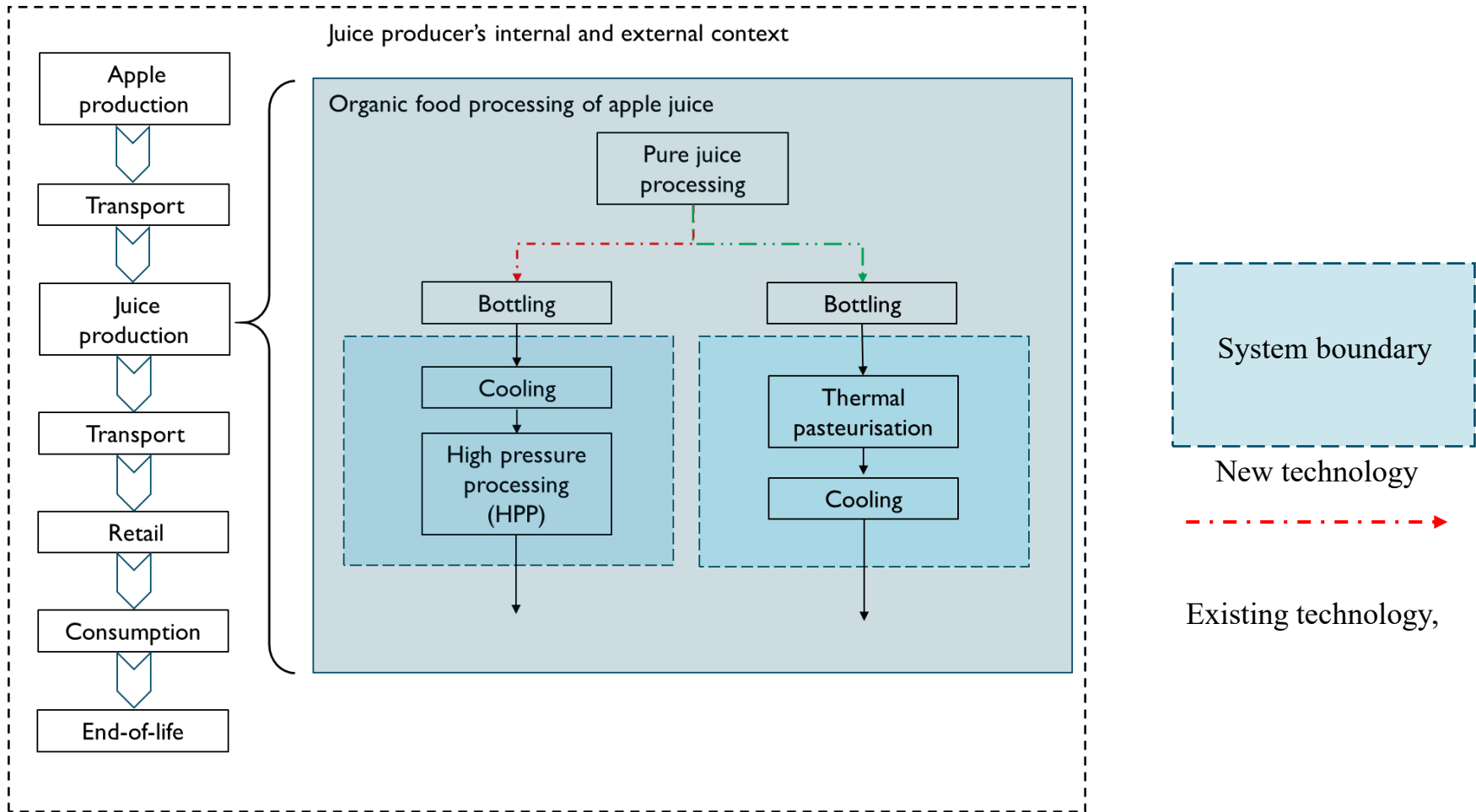
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graph TD; A[Step I: Define context] --> B[1.1 Understanding the system]; B --> C[1.2 Definition of the relevant criteria]; C --> D[1.3 Drawing system boundaries];
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1.1 Understanding the system

1.2 Definition of the relevant
criteria

1.3 Drawing system boundaries

Step I: Define context, example apple juice



Step 2: Determine criteria and indicators

2.1 Detailed characterisation of the relevant criteria

2.2 Selection of indicators and parameters

2.3 Analysis of the relevant indicators

2.4 Comparison with an alternative processing technology and raw materials

Selection and characterisation of the relevant criteria, indicators and parameters with regard to the aspects of sensory, nutritional, ecological and social sustainability

Criteria for selection:

If available: Experimental data from the literature, or own data

If no experimental data are available, then expert interviews

Step 3: Overall evaluation



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graph TD; A[Step 3: Overall evaluation] --> B[3.1 Weighting of indicators]; B --> C[3.2 Weighting of the various criteria]; C --> D[3.3 Weighting of the aspects]; D --> E[3.4 Benchmarking with the Bio Principles]; E --> F[3.5 Inclusion of consumer expectations and economic aspects is possible]; F --> G[3.6 final assessment];
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3.1 Weighting of indicators

3.2 Weighting of the various criteria

3.3 Weighting of the aspects

3.4 Benchmarking with the Bio Principles

3.5 Inclusion of consumer expectations and economic aspects is possible

3.6 final assessment

Excel

<https://my.hidrive.com/share/3td-lr3cua>



ProOrg-Beispiel

Assesment framework: what next

- The tool will be freely available in Autumn
- Companies, associations, legislators can use it in self-application
- The tool can also be used in conjunction with blq and/or FiBL.

Example in the context of a student project

The project results are available

<https://www.proorgproject.com/>



Thank you for your attention