Towards harmonized product footprinting and ecolabeling for all food sold in Europe

Koen Boone Wageningen University & Research Nominated for WUR impact award

Synergie Meet-up: People, Planet, Payback, 27 November 2025





Use power of markets to make food more sustainable

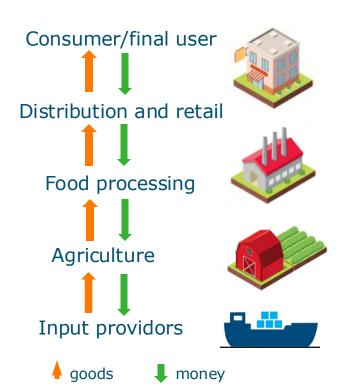
To make impact, stakeholders need to integrate sustainability better in decision making. Requirements:

- Harmonized methods
- Data to be able to use methods
- Communication of results (aggregation, timing, visual, reliable, actionable)
- Right incentives for improving sustainability
- Scalable at low costs











Agenda



LCA-based Ecolabel for food

Conclusions



Product Footprinting Horticulture





Why footprinting?



- Original sustainability assessment by input/process/ practice indicators:
 - How to compare performance and identify greenwashing?
 - How to guarantee that better process/lower input leads to impact?
- "Companies can only be sustainable in a sustainable world"
 - Paris climate agreements
 - Planetary boundaries/fair share
 - Quantitative impact indicators can be aggregated in many different ways so used for many different purposes and users



Base of product footprinting: Life cycle Assessment

Quantitative analyse of all environmental impacts of a product over its full life cycle

Combination of company specific data and averages from databases

- No harmonised methodology
- Limited data availability
- Expert knowledge needed
- -> Lack of Scalability





Increased demand for environmental impact data of food

- Scope 3 GHG reporting (CSRD, SBTI)
 - Very demanding for retailers/food service
- Green Claims Directive: Harmonised communication to consumer
- Consumer empowerment directive
- EU agri food vision: Farm Compass
- Ecolabel: Environmental impact of all food for consumer





LCA methods and database: Product Environmental Footprint





Adaptations in weighting, database and themes in 2025/26: e.g. local biodiversity



PEFCRs voor agro-food

PEFCRs developed in the first phase:

- Dairy
- Beer
- Pasta
- Olive oil
- Packed water
- Wine
- > Feed

PEFCRs in second phase:

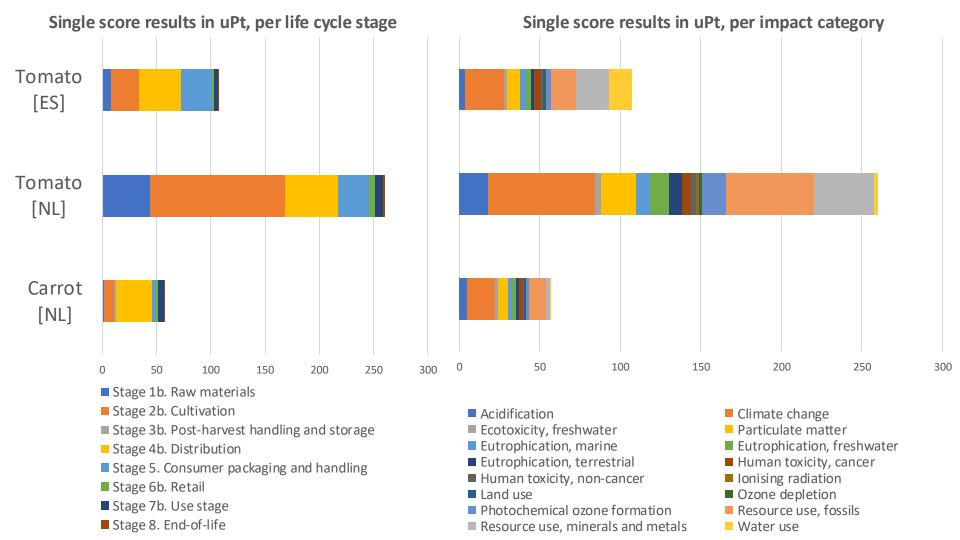
- ➤ Marine fish
- **►** Floriculture (FloriPEFCR)



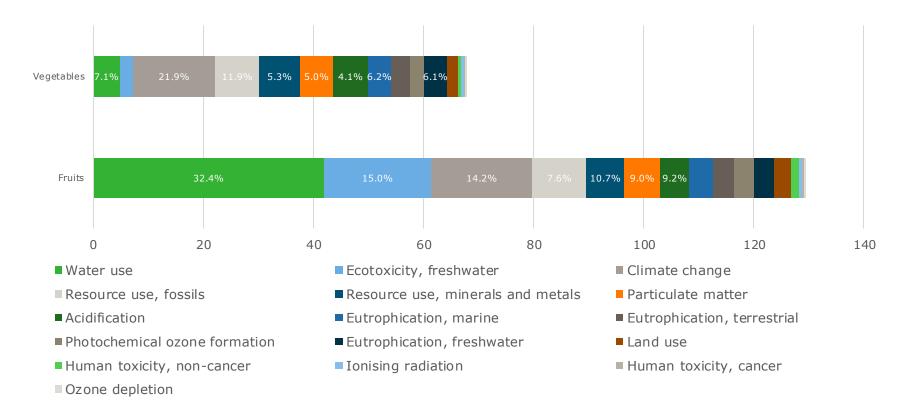
Shadow PEFCRs:

- > Fruit and vegetables
- Growing Media Europa
- Coffee
- Vegetable oil and protein meal products





Single score EU: contribution per impact category (%)





Application PEF still limited

- Available for limited number of product categories
- No comparison between product categories
- Cost and expertise needed
- Limited tools





Tools Floriculture PEFCR













Greenhouse Sustainability



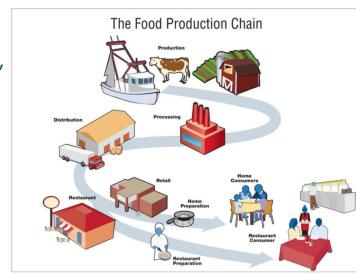
Ecolabels for food





Innovation French government

- PEF methodology for all product categories
- Digital twins supply chains of all 3000 food categories based on easily available primary information (ingredients, packaging, country of primary production etc.)
 - Agribalyse: Impacts of 16 environmental themes for all food and publicly available
- Replace secondary data with primary data from individual companies for product specific score
 - Harmonized methodology
 - Lower administrative burden
 - Stronger incentive primary data
 - Less expertise





Many public and private tools

Eco-Score	Planet- Score	Enviroscore	Eco Impact	Coop Sweden Sustainability Declaration	Made Green in Italy	French initiative
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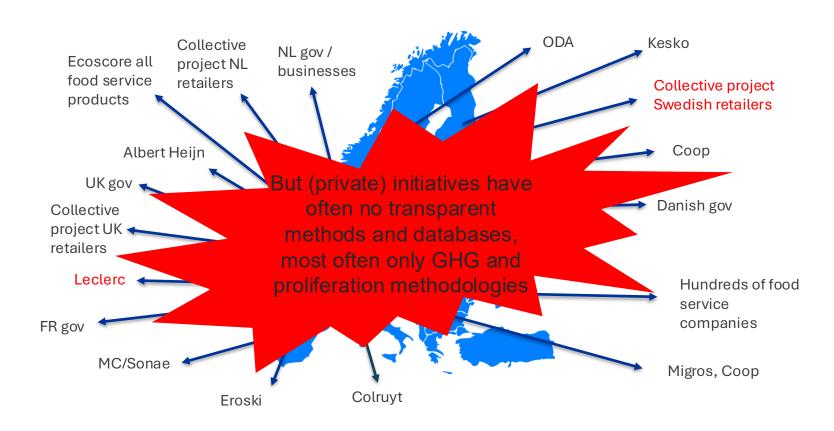








Implementation of Ecolabeling/Footprinting in Europe





















Eco Food Choice project

Provide Europe with an operational and collectively supported environmental labelling system

Objective 1

Methodology for harmonized environmental footprinting

Objective 2

Methodology to translate LCA outcomes to ecolabel

Sept '25: Beta version method open for feedback

Objective 3

Design and test the label in real life

Fall '25: Test label with A to E and absolute score

- Cooperation between France, Netherlands, Germany and Spain
- Financed by DG environment
- Many other countries and stakeholders connected
- 4,5 years duration: 2023-2028





Conclusions state of the art of ecolabels



- Fast growth of Ecolabels/footprinting with different methodologies and databases (driver CSRD/SBTI)
- Good estimates of carbon based on existing product databases using advanced technologies
- More collective projects/structures
- Additional sustainability themes needed (PEF)
- Need for EU harmonized transparent methodology and database managed by non-profit
- Private sector can play an important role in developing tools to operationalize the harmonized methodology.

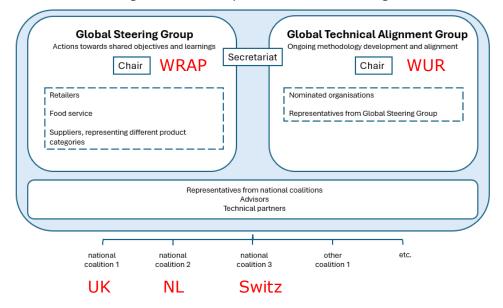


Global Sustainable Transition Alliance Initiators: Mondra, Inoqo and How Good



- Methodology and database publicly available
- Managed by non profit organisations
- Open for (cooperation) with competitors
- International governance structure

International governance structure for global harmonised scope 3 assessments and ecolabeling





Stakeholder engagement & partner scoping



Food businesses:



























Trade bodies / NGOs









DRIVING AMBITIOUS CORPORATE CLIMATE ACTION

Move to more primary data and incentives: True Value Language NI multi-stakeholder initiative of government and private sector

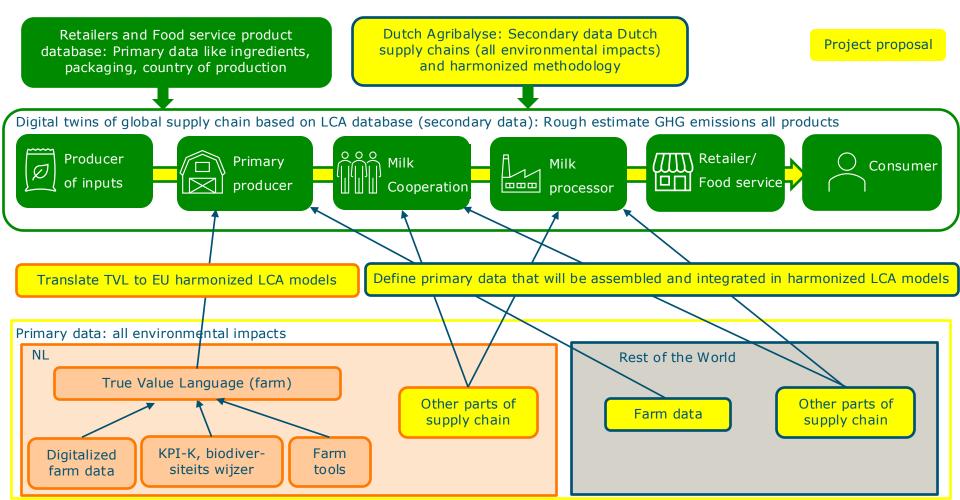


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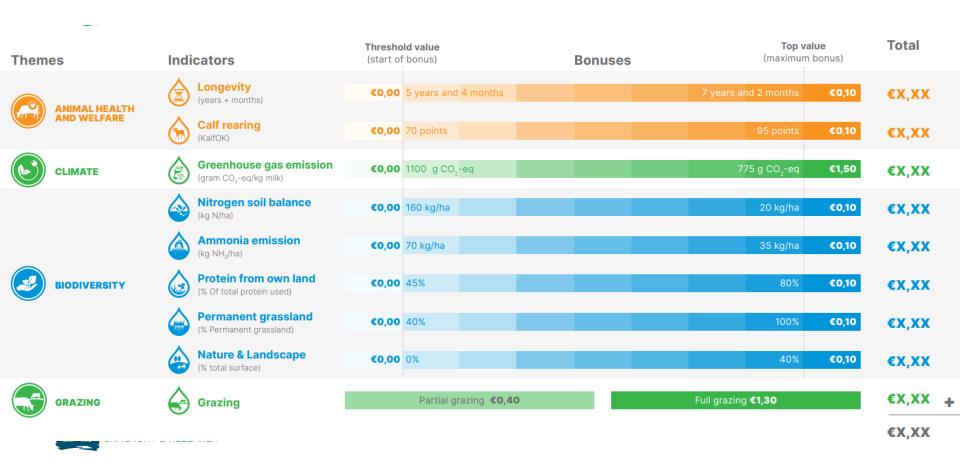
- EU/national/localGovernment
- Retail
- Finance
- Food processing
- Consumers
- Landlord
- Etc.



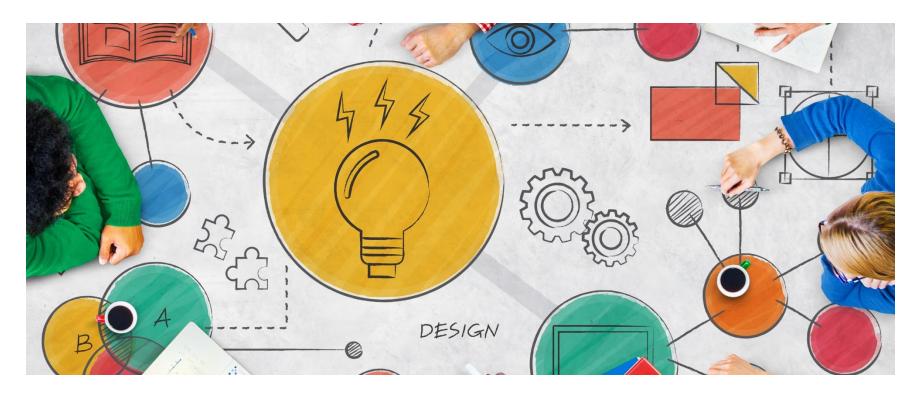
Project: Harmonized Environmental impacts of all food sold in the Netherlands



Sustainability incentives for all food: Friesland Campina



Conclusions





Conclusions

- ✓ Large investments by both public and private sector in scalable product footprinting and ecolabeling
- ✓ Still improvements needed (local biodiversity, primary data)
- ✓ Move to more public private cooperation and harmonization
- ✓ Easier to take sustainability into account in decision making for all stakeholders





Thanks for your attention!

Questions?

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