Product environmental footprint seminar on biodiversity & LANCA (Land Use Indicator Value Calculation in Life Cycle Assessment)

November 24, 13.00-15,00

Webinar arranged within the project Environmental footprint in Sweden

SWEDISH LIFE CYCLE CENTER

VINNOVA
Sweden's Innovation Agency

Swedish Life Cycle Center

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Tillväxtanalys

Environmental footprint in Sweden

- Coordinate Sweden's work on Product Environmental Footprint (PEF)
- Engage Swedish actors in PEF
- Give Swedish actors a better understanding of the methodological issues in PEF and the PEF policy development
- Impact the PEF method development

. . .through

- Coordination between TAB members in Sweden
- Arrange forums for dialogue
- Information & communication
- Research and case studies

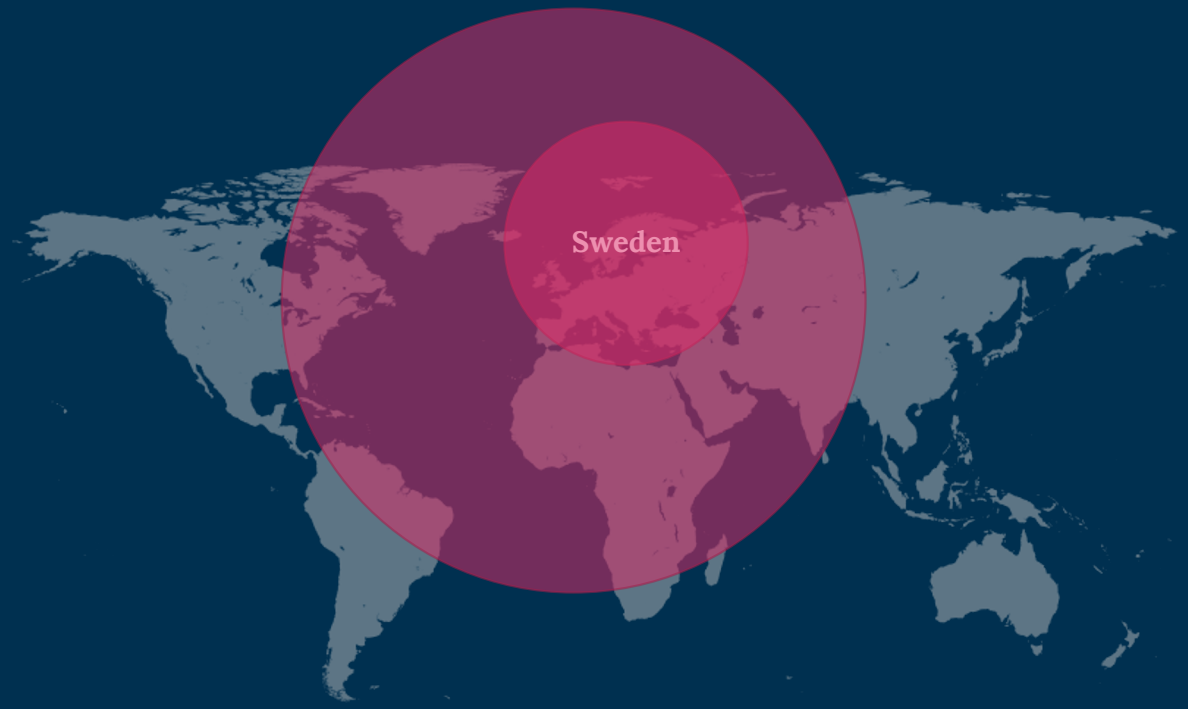
Aim of webinar

insight into biodiversity and land use methodologies for Environmental Footprints (EF) and through discussion influence the continued development of Environmental Footprint

Agenda

- Welcome and introduction to Product Environmental Footprint and the project Environmental Footprint in Sweden (Sara Palander SLC, Elin Eriksson, IVL)
- Strategies and policy requirements from EU Commission related to Biodiversity and Land use; e.g. Green Deal, Taxonomy, EU Forest Policy (Elin Eriksson, IVL)
- Introduction to the LANCA method, and ongoing developments (Rafael Horn, Fraunhofer)
- Status of Biodiversity in the Agricultural WG in TAB and the ongoing evaluation (Rafael Horn, Fraunhofer)
- Short break!
- Status of development of Biodiversity Standard within ISO (Andreas Englund, IVL)
- Example of approaches to quantify biodiversity in LCA in relation to PEF (Serina Ahlgren, RISE, Eskil Mattson, IVL)
- Discussion
- Reflections and ways forward!

Participants



Experienced in Life Cycle Assessment

Expertise in biodiversity

Learning!

House rules!

- Keep your microphone muted!
- Time for questions – use the chat function
- If you have problems with the audio? – dial in!
- This webinar is recorded!

Product Environmental Footprint

Elin Eriksson, IVL Swedish Environmental Research Institute

Product Environmental Footprint – to harmonise footprints, declarations and claims in EU

April 2013 EC Recommendation
Communication *Single Market for Green Products*

23-25/04 2018 Final conference

April 2018

April 2018

- Pilots finalised. One pending

Stakeholder consultations
- Targeted consultation
- Public consultation
- Stakeholder worskshop

- Monitoring the voluntary implementation of PEFCRs/ OEFSRs
- Development of PEFCRs/ OEFSRs
- Methodological improvements
  - Toxicity-related impact categories (completed)
  - Resource use impact category

European Commission

PEFCR development during Transition phase (Product Environmental Footprint Category Rules)

- Apparel and footwear
- Cut flowers and potted plants
- Flexible packaging
- Marine Fish
- Synthetic Turf

Product Environmental Footprint and Organisational Environmental Footprint Pilots

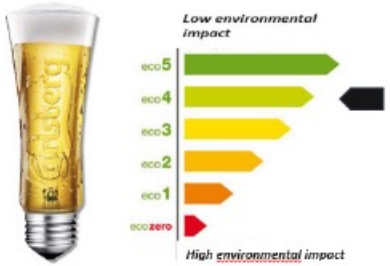
1st wave of pilots

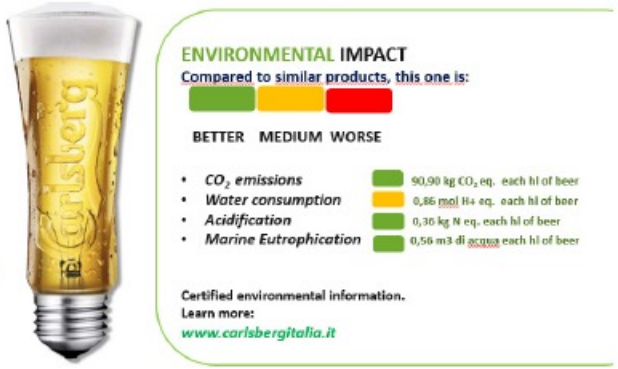
- Batteries and accumulators
- Decorative paints
- Hot & cold water pipe systems
- Liquid household detergents
- IT equipment
- Metal sheets
- Non-leather shoes
- Photovoltaic electricity generation
- ~~Stationary~~
- Intermediate paper products
- T-shirts
- Uninterrupted power supplies
- Retailer sector
- Copper sector

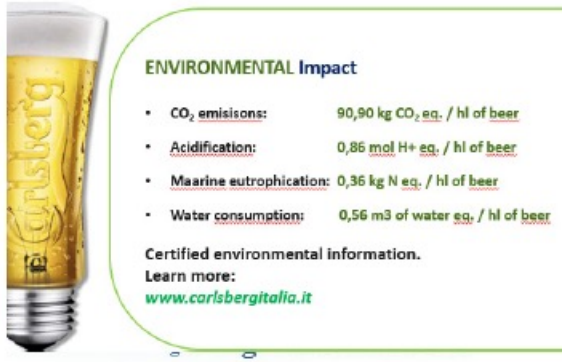
2nd wave of pilots

- Leather
- Thermal insulation
- Beer
- ~~Coffee~~
- ~~Fish~~
- Dairy products
- Feed
- ~~Meat~~
- Pet food
- Olive oil
- Pasta
- Wine
- Packed water

Possible ways to communicate PEF results







Harmonised modelling rules

European Commission

Rules have been developed

- ☺ How to define representative product/organisation
- ☺ Life Cycle Impact Assessment Methods
- ☺ Materiality principle (Hotspot procedure)
- ☺ Cut-off
- ☺ Climate change modelling
- ☺ Agricultural modelling
- ☺ Electricity modelling
- ☺ Transport modelling
- ☺ Infrastructure and equipment modelling
- ☺ Packaging modelling
- ☺ Use stage modelling
- ☺ End-of-Life modelling
- ☺ Data Need Matrix

- ☺ Benchmark
- ☺ ~8000 EF-compliant secondary dataset
- ☺ Normalisation

Discussions needed

- 😐 Functional Unit
- 😐 Scope (granularity)
- 😐 Allocation
- 😐 Biodiversity
- 😐 Data Quality Requirements
- 😐 Toxicity
- 😐 Weighting

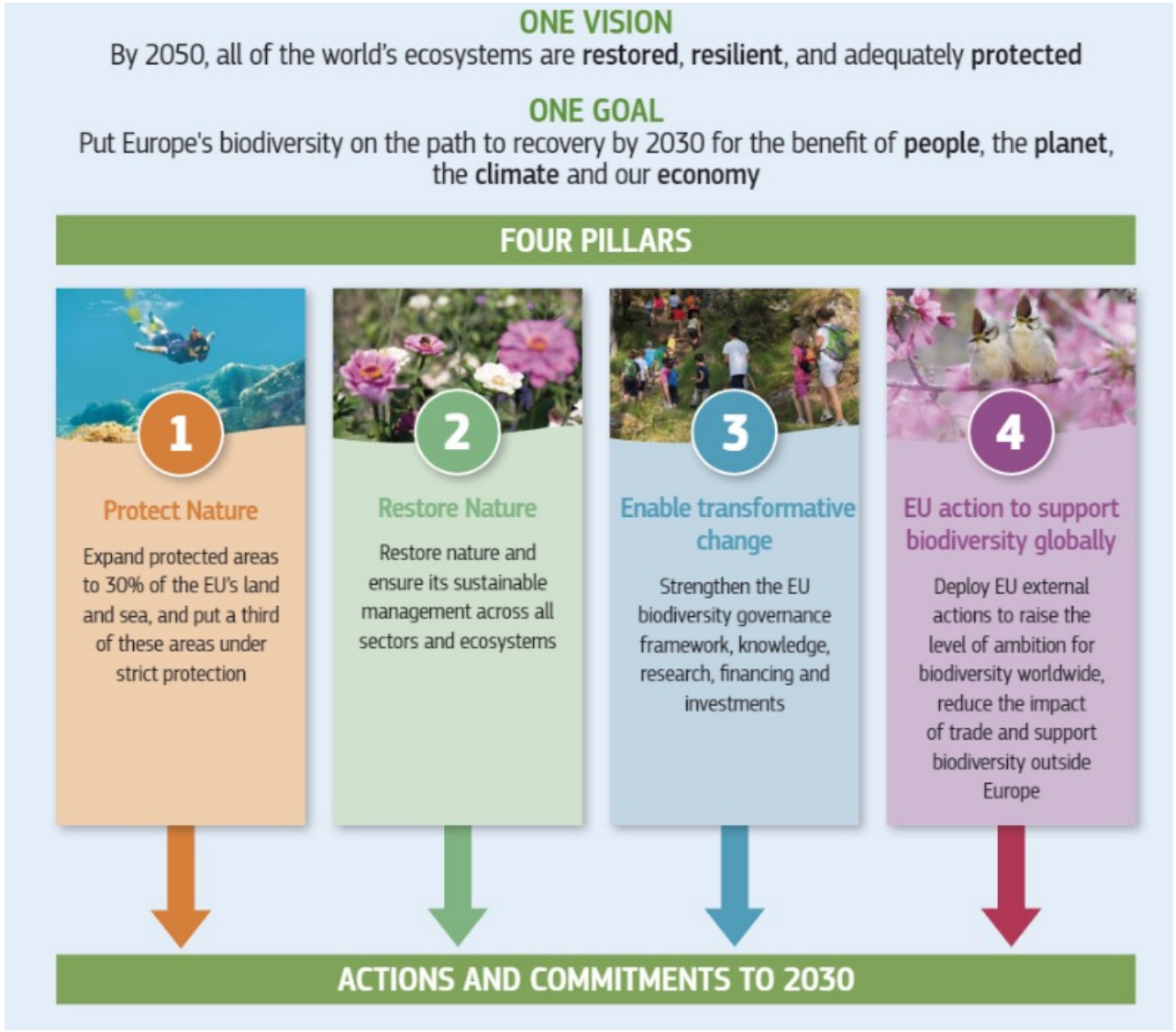
No agreement on method

- ☹ Slaughterhouse modelling
- ☹ Classes of performance

Strategies and the policy requirements from the EU Commission

Elin Eriksson, IVL Swedish Environmental Research Institute

The EU Biodiversity Strategy

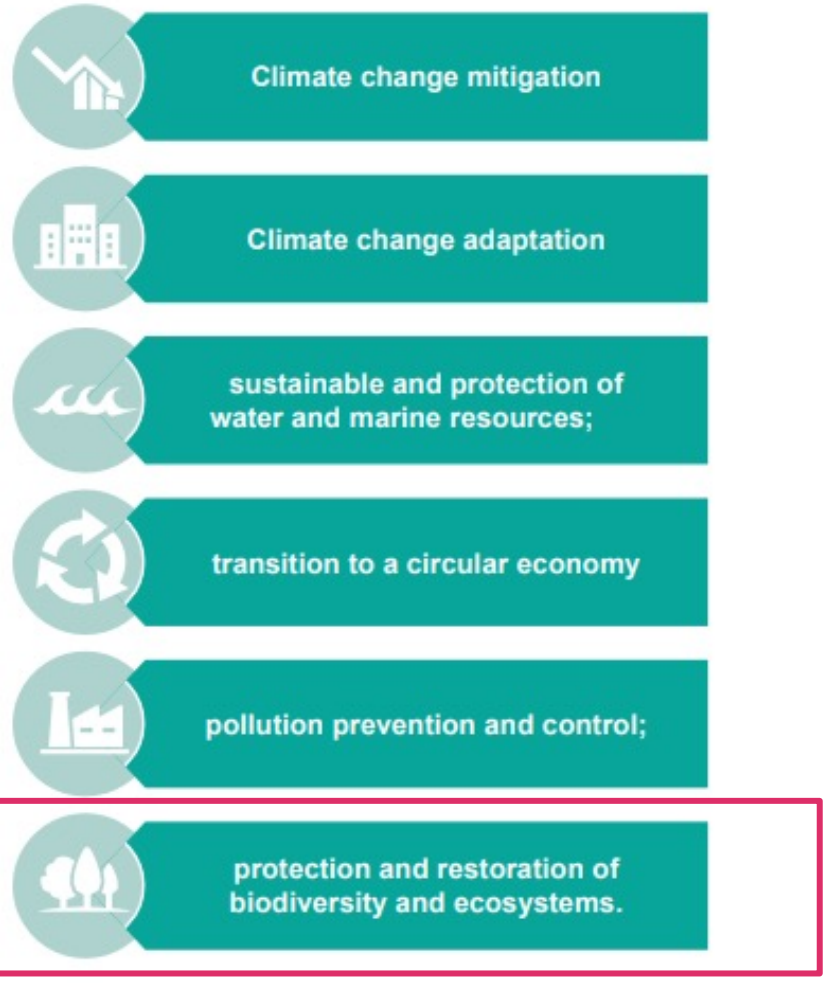


Taxonomy requirements

Substantial contribution to Climate Change Mitigation

And compliance with the requirements of the other five objectives

Including Biodiveristy



Introduction to the LANCA method

Rafael Horn, Fraunhofer

Ongoing in the Agricultural working group within the Technical Advisory Board

Rafael Horn, Fraunhofer

Short break!

Development of Biodiversity Standard within ISO

Andreas Englund, IVL Swedish Environmental Research Institute

Example of approaches to quantify biodiversity in LCA

Serina Ahlgren, RISE Research Institutes of Sweden

Eskil Mattsson, IVL Swedish Environmental Research Institute

Discussion!

Go to menti.com and use the code 2697 0898

Q: Comparison of product environmental performance is a basic aspect promoted through introduction of PEF. How can we compare the biodiversity/land use performance of different products?

Q: Where are the gaps and needs?

Q: How can Scandinavian conditions be more taken into account? How can we drive and impact the development?

Reflections & ways forward

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https://www.lifecyclecenter.se/registration-to-public-newsletter/