Stakeholder workshops on Catalan wine sector, Swiss crops production, and French viticulture as well as on stakeholder acceptance of overall project methods and results

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Stakeholder workshops

The present deliverable contains a brief summary of the stakeholder workshops organized under the OLCA-Pest project. Two originally foreseen workshop (on Swiss crops production and French Loire Valley viticulture) could not be implemented due to COVID19. However, as remediation measure, a broad stakeholder survey has been implemented, which goes well beyond individual sectors, but instead covers a wider range of LCA data, method and software developers as well as LCA practitioners. This survey is seen as full compensation for the 2 stakeholder workshops that could not be implemented due to COVID19.

1st stakeholder workshop on Catalan wine sector

Time: 9 May 2019
Place: Vilafranca del Penedes (INCAVI facilities), Catalonia, Spain
Participants: Representatives of all OLCA-Pest project participant parties, plus invited INCAVI experts and wine farmers of Penedes region.

Summary:

The Catalan Institute of Vines and Wines, INCAVI, is an organization specific to the wine industry which was set up by the Catalan Ministry of Agriculture, Food and Rural Affairs. The institute organizes studies and research to foster the development of the wine sector in accordance with its needs at any given time. Moreover, INCAVI works to promote Catalan wines and to regulate the wine industry. INCAVI organizes continuing training, specialization and refresher activities for experts and professionals in the fields of grape cultivation and winemaking, ranging from technical topics to marketing. Because of the increasing importance of organic production systems INCAVI shown their interest in OLCA-project and the environmental assessment of Plant Protection Products. They are particularly interested in the comparison of organic and conventional production systems. This is the reason that the case study conducted by IRTA was focus on grape production. INCAVI agreed to provide field data and organize the stakeholder workshop.

During the visit OLCA-pest participants learned about INCAVI installations and met their responsibles: Mr. Salvador Puig Rodriguez, INCAVI’s director, and part of their technical staff represented by Mr. Enric Bartra. In addition, a field visit was organized, where OLCA-Pest partners had the opportunity to attend to fungicide treatment application and share with farmers their main concerns.

As a summary of concerns raised, it could be highlight, the importance of Copper treatments for organic production systems and interest in knowing about its potential toxicity depending on the surrounding conditions. So far, for organic production system there is not as good alternative as Copper for some fungal diseases, while there are a lot of synthetic products that could be used at conventional, so the need to be sure about potential metabolites and final damage in both systems. They appreciate efforts of OLCA-Pest project in this sense.
Stakeholder online survey

Time: Between 14 July and 12 September 2020
Place: virtual (survey by e-mail)
Participants: The following organisations and companies have been included in the survey:

LCI databases:
- ecoinvent
- Agri-Footprint
- WFLDB
- Agribalyse
- JRC LCI database
- US LCI databases
- Japanese LCI database
- AusLCI
- Brazilian LCI database
- Peruvian LCI database
- Thai LCI database

LCA software:
- SimaPro
- GaBi
- Umberto
- OpenLCA
- MEANS

In addition the survey form was sent through the Global LCA Data network (GLAD).

We received feedbacks from 8 database and 3 software/tools developers.

Objectives: The stakeholder survey aimed at proposing solutions and recommendations from the OLCA-Pest project that are accepted and adopted by LCA developers and practitioners. The specific solutions aim to finally allow:

- To implement the pesticide consensus in LCI databases and LCA software,
- To preserve the mass balance of the pesticide emitted after application,
- To make a consistent assessment of ecotoxicity (aquatic, terrestrial) and human toxicity,
- To define a clear and consistent interface between the LCI and LCIA phases,
- To estimate emission fraction based on already available data.

Furthermore, the purpose of the survey was to draw attention to the OLCA-Pest project and the solutions developed.

Questions: The following questions were asked to the participants:

- Question 1: Do you plan to include a new emission compartment "crop" with the proposed sub-compartments into your LCI database or LCA software within the next one or two updates?
Question 2: Do you plan to include the new characterization factors (related to the emissions to the compartment crop) into your software?

Question 3: Which method do you prefer to calculate the emission fractions:
   Tier 1A, Tier 1B, other

Question 4: Do you have alternative suggestions to this proposal?

The survey form was accompanied by a management summary, containing all the relevant information, and a scientific background document.

Feedbacks: Generally, the responses were positive about our proposal. However, there were several concerns:

1. Technical feasibility, resource needs:
   • Implementation is technically demanding
   • Implementation in databases dependent on adaptation of LCA software

2. Modelling of pesticide residues at crop level:
   • Possible bias by allocation to co-products
   • Reduction of residues through later processing
   • Distinction food/non-food not easy a crop level, can change later

3. Acceptance:
   • Solutions should officially/internationally accepted (UNEP, PEF, ...).
   • Modelling of human toxicity of pesticide residues is a highly sensitive issue

4. Others:
   • Pesticide data (amounts applied) are often very low quality or missing.
2nd stakeholder workshop on stakeholder acceptance of overall project methods and results

Time: 13 October 2020

Place: Virtual workshop due to COVID19, back-to-back with LCA Food 2020 Conference

Participants: Representatives of all project participant parties, plus 120 registered participants from industry, public authorities, non-governmental organizations and LCA practitioners

Objectives: The virtual stakeholder workshop had the following specific objectives:
- Inform about the main outcomes and recommendations from the OLCA-Pest project as follow-up of the ‘pesticide consensus in LCA’ effort
- Show the practical implications for LCI database developers, LCA software providers, LCA practitioners and decision makers
- Show potentials and limitations of the proposed methodology, data and tools
- Show the practical usage of the tools and methodologies developed within OLCA-Pest along LCA case studies in different agricultural systems

Audience: The virtual stakeholder workshop was open to all interested parties, but particularly targeted to:
- LCI database developers
- LCA software providers
- LCA practitioners and researchers across sectors
- Decision makers and sustainability managers from companies