

Stakeholder workshop

Quantifying emissions and environmental impacts of pesticides in life cycle assessment: Building on the pesticide consensus effort

When? Tuesday, 13 October 2020, 15:00-18:00
LCA Food pre-conference workshop

Where? Ellington Hotel Berlin, Nürnberger Str. 50-55, D-10789 Berlin (LCA Food conference venue), Event room 4

Background: Current pesticide field emission modelling and toxicity characterisation approaches suffer from several shortcomings, including unclear boundaries between Life Cycle Inventory (LCI) and Life Cycle Impact Assessment (LCIA) phases, environmental compartment mismatches between LCI databases and LCIA methods, missing characterisation factors, compartments in impact assessment, and impact pathways. The [Glasgow consensus](#) workshop in 2013 started a consensus building process with three scientific workshops and a stakeholder workshop. In order to operationalise the resulting recommendations for harmonising the emission quantification and impact characterisation of pesticides in life cycle assessment (LCA) and product environmental footprinting, the [OLCA-Pest](#) project ("Operationalising Life Cycle Assessment for Pesticides", 2017-2020, funded by ADEME) was implemented with nine partner institutions. The present workshop informs about the main outcomes of the OLCA-Pest project and the consequences for LCI databases, LCIA assessment and LCA practice related to assessing pesticides in LCA.

Goals of the workshop:

- 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

Who is concerned?

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

Tentative programme:

- Overview of the OLCA-Pest project
- PestLCI Consensus web-based model
- LCI-LCIA model linking, default emission fractions, recommendations for LCI DB and LCA practitioners
- Selected LCA case studies
- Lessons learnt, interpretation of toxicity results, potentials, limitations and sensitivity
- Outlook and future research needs

On behalf of the OLCA-Pest project team:

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<http://qsa.man.dtu.dk/research/research-projects/olca-pest>

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