

## Regionalised Life Cycle Impact Assessment

Current status and practical application in LCA databases and software

May 12, 2014, Basel, Congress Center Basel, Messeplatz, CH-4005 Basel, room Miami

### Workshop Agenda

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Time	Theme
14:00	Welcome & introduction
14:05-14:20	<a href="#">Why and when does regionalized LCIA make sense?</a> <i>Andreas Ciroth, GreenDelta</i>
14:20-14:35	<a href="#">Regional concepts in LCA databases: ecoinvent, ELCD, LCAdigitalcommons database</a> <i>Chris Mutel, ETH Zurich</i>
14:35-14:50	<a href="#">LCIA methods: current and emerging LCIA models for expressing regional differences</a> <i>Stephan Pfister, ETH Zurich</i>
14:50-15:05	<a href="#">Challenges of linking regionalized LCIA methods and LCA databases</a> <i>Cristina Rodríguez, GreenDelta</i>
15:05-15:20	<a href="#">Software implementation of GIS-based regionalized LCA – practical demonstration of status and possibilities</a>
15:20-15:35	Brightway2: <i>Chris Mutel, ETH Zurich</i> openLCA: <i>Cristina Rodríguez, GreenDelta</i>
15:35 -16:00	<a href="#">Ways forward: How to proceed with regionalized LCIA? Open Discussion</a>

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### The Venue

The workshop will take place at the Congress Center Basel, in room Miami, during the SETAC Conference.

#### Address:

Congress Center Basel  
MCH Messe Schweiz (Basel) AG  
Messeplatz, Room Miami  
CH-4005 Basel

## About the Presenters

**Dr. Andreas Ciroth**, founder and managing director of GreenDelta. Dissertation (Dr. -Ing.) in 2001 on error propagation in LCA. His interests: Life cycle analyses, sustainability assessment, data quality, decision theory, open source software, participatory approaches, and in broader terms: How to assess, and improve, the impacts of human decisions on nature and society. Editorial and advisory duties: Subject editor 'Uncertainties in LCA' in the International Journal of Life Cycle Assessment, and member of the Editorial Board; member of theecoinvent advisory council.

**Dr. Chris Mutel** is a postdoc at the group of Environmental Systems Design at ETH Zurich. His research focuses on implementation of advanced LCA methodologies, including uncertainty and sensitivity analysis and regionalization. He is also geographies editor for theecoinvent centre.

**Dr. Stephan Pfister** is a senior research associate at ETH Zurich, focusing on the impact assessment of water consumption in Life cycle Assessment (LCA) of agriculture and power production and advancing water footprinting concepts including future assessments and international trade. Stephan is member of the "ecoinvent Editorial Board" focusing on water data collection and subject editor for The International Journal of Life Cycle Assessment.

**Cristina Rodríguez**, holds a master degree in Water and Wastewater Engineering and a bachelor degree in Chemical Engineering with a specialization in Environmental Engineering. Since 2012, she is working for GreenDelta as LCA consultant. She has created a new reference database and a compilation of LCIA methods for openLCA. She is currently working in a project supported by the USDA for implementing a new approach for regionalized LCIA in openLCA.

## About the Organisers

**GreenDelta**, is an independent sustainability consulting and software company located in Berlin (Germany). GreenDelta provides internationally-leading services for software and consulting in sustainability, e.g. LCA studies, strategic sustainability consulting, software and database development; GreenDelta is German reseller of SimaPro and creator of the openLCA open source software, and of openLCA Nexus.

[www.greendelta.com](http://www.greendelta.com)

**The United States Department of Agriculture (USDA)** was established in 1862 by President Abraham Lincoln "to diffuse among the people of the United States useful information on subjects connected with agriculture, rural development, aquaculture, and human nutrition, in the most general and comprehensive sense of those terms, and to procure, propagate, and distribute among the people new and valuable seeds and plants". It is the mission of the USDA to provide leadership on food, agriculture, natural resources, rural development, nutrition, and related issues based on sound public policy, the best available science, and efficient management.

[www.usda.gov](http://www.usda.gov)

**ETH Zürich** is one of the leading international universities for technology and the natural sciences. It is well known for its excellent education, ground-breaking fundamental research and for implementing its results directly into practice. The group of Ecological Systems Design conducts research on modeling,

analyzing and evaluating the resource efficiency and environmental impact of products and processes, new technologies and consumption patterns.

[www.ethz.ch](http://www.ethz.ch)

### About the Softwares

**openLCA**, is a free, professional Life Cycle Assessment (LCA) and footprint software with a broad range of features and many available databases, created by GreenDelta since 2006. It is an open source software; the software and its source code is freely available. The software is fully transparent and can be modified by anyone. Besides being open source and free, openLCA offers professional life cycle modeling, up-to-date usability, a broad choice of life cycle databases, probably the largest worldwide, and fluent collaboration for teams.

[www.openlca.com](http://www.openlca.com)

**Brightway2**, is a completely new program for calculating life cycle assessments (LCA). Its core principles are simplicity, innovation, and power. It was created by Chris Mutel during his postdoctoral work at the group for Ecological Systems Design of ETH Zürich, led by Professor Stefanie Hellweg, and was funded by the Swiss National Science Foundation and ETH Zürich. Brightway2 is not trying to replace software such as OpenLCA or SimaPro. Instead, it is designed for individual analysts to do cutting edge calculations on their computers, their servers, or in the cloud, and to push the state of the art in LCA result visualization.

<http://brightwaylca.org>

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### Registration Form

Registration and participation is free of charge, but places are limited, attendance will be possible on a first come first serve basis. Thank you for your understanding.

First Name: \_\_\_\_\_ Surname: \_\_\_\_\_ Title: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ Zip Code: \_\_\_\_\_ Country: \_\_\_\_\_

E-mail address: \_\_\_\_\_ Phone number: \_\_\_\_\_

Professional role: \_\_\_\_\_

Organization: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

### Contact:

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