



**Special forum on**

## **Global Land Use Impacts on Biodiversity and Ecosystem Services in LCA**

**within the framework of the UNEP/SETAC Life Cycle Initiative**

**Organizers:** Thomas Koellner (University of Bayreuth), Llorenç Milà I Canals (Unilever, UK), Laura de Baan (ETH Zurich, Switzerland), Ulrike Bos (LBP-GaBi, University of Stuttgart), Danielle Maia de Souza (Joint Research Centre, Italy) and Rosie Saad (CIRAIG, Canada)

**Date:** Friday, February 17<sup>th</sup>, 2012, 9:00 AM – 13:00 PM

**Venue:** ENEA – EU LIAISON OFFICE IN BRUSSELS, Rue de Namur 72 – 74, 1000 Brussels, Belgium

How to get there: [http://www.bruxelles.enea.it/pdf\\_estero/Bru\\_eng.pdf](http://www.bruxelles.enea.it/pdf_estero/Bru_eng.pdf)

**Goal** of this special forum is to present methodologies how land use impacts on biodiversity and ecosystem services can be accounted for in LCA on a global scale. A case study will show how the proposed characterisation factors are applied in practice. Based on this the participants will discuss the possibilities for further development.

**Target audience** are the developers of Life Cycle Assessment as well as users of this method interested in biodiversity and ecosystem services.

The half-day forum is **free of fees**, but limited to 40 people based on the sequence of registration. Please send your registration until January 10<sup>th</sup> to [irmgard.lauterbach@uni-bayreuth.de](mailto:irmgard.lauterbach@uni-bayreuth.de)

For the registration to the 5th SETAC Europe Special Science Symposium, Brussels February 15<sup>th</sup>-16<sup>th</sup>, 2012: "Ecosystem Services: From practice to policies" please check <http://sesss05.setac.eu>





## Schedule of the special forum

### Part A: Foundations

UNEP-SETAC Guideline on Global Land Use Impacts on Biodiversity and Ecosystem Services in LCA by *Thomas Koellner, Laura de Baan, Tabea Beck, Miguel Brandão, Barbara Civit, Manuele Margni, Llorenç Milà i Canals, Rosie Saad, Danielle Maia de Souza, and Ruedi Müller-Wenk*

### Part B: Modelling Characterization Factors for Biodiversity

Land use impacts on biodiversity in LCA: a global approach by *Laura de Baan, Rob Alkemade and Thomas Koellner*

Land use impacts on functional species diversity: proposal of characterization factors to assess effects on ecosystem processes by *Danielle Maia de Souza, Dan Flynn and Thomas Koellner*

### Part C: Modelling Characterization Factors for Ecosystem Services

Global characterisation factors to assess land use impacts on biotic production by *Miguel Brandão and Llorenç Milà i Canals*

Land use impact assessment of ecosystem services according to LANCA® by *Ulrike Bos, Tabea Beck, Jan Paul Lindner und Bastian Wittstock*

Land use impacts on freshwater regulation, erosion regulation and water purification: a spatial approach for a global scale by *Rosie Saad, Thomas Koellner and Manuele Margni*

### Part D: Application to Case Studies

Land use impact assessment of Margarine by *Llorenç Milà I Canals, Giles Rigarlsford and Sarah Sim*

### Part E: Discussion of further development

Open questions and research strategies to integrate biodiversity and ecosystem services into the framework of Life Cycle Assessment



## Main contributors

- SEAC, Unilever, UK: Llorenç Milà I Canals (Llorenc.Mila-i-Canals@unilever.com)
- Institute for Environment and Sustainability, Joint Research Centre, European Commission, Italy: Miguel Brandão (miguel.brandao@jrc.ec.europa.eu) and Danielle Maia de Souza (danielle.souza@jrc.ec.europa.eu)
- NSSI, ETH Zurich, Switzerland: Laura de Baan (laura.debaan@env.ethz.ch)
- University of Bayreuth, Germany: Thomas Koellner (thomas.koellner@uni-bayreuth.de)
- IWOE, University of St. Gallen, Switzerland: Ruedi Müller-Wenk
- CIRAI, Canada: Manuele Margni (manuele.margni@polymtl.ca), Rosie Saad (hala-rosie.saad@polymtl.ca) and Louise Deschenes (louise.deschenes@polymtl.ca)
- LBP-GaBi, University of Stuttgart, Germany: Ulrike Bos (ulrike.bos@LBP.uni-stuttgart.de), Tabea Beck (tabea.beck@LBP.uni-stuttgart.de), Jan-Paul Lindner (jan-paul.lindner@LBP.uni-stuttgart.de) and Bastian Wittstock (bastian.wittstock@LBP.uni-stuttgart.de)
- CLIOPE Group "Energy, environment, and sustainable development", Facultad Regional Mendoza, Universidad Tecnológica Nacional, Argentina: Barbara Civit (bcivit@frm.utn.edu.ar)



## Registration to the special forum

Global Land Use, Biodiversity and Ecosystem Services in LCA within the framework of the UNEP/SETAC Life Cycle Initiative

Friday, February 17<sup>th</sup>, 2012, Brussels

Name	
Organization	
Email	

Please send your registration

**via email to**

[irmgard.lauterbach@uni-bayreuth.de](mailto:irmgard.lauterbach@uni-bayreuth.de)

**or via postal services to**

Mrs. Irmgard Lauterbach  
Professorship of Ecological Services (PES)

University of Bayreuth  
Faculty of Biology, Chemistry and Geosciences  
GEO II, Room 1.17  
Universitätsstr. 30  
95440 Bayreuth  
Germany

PES-group homepage <http://www.pes.uni-bayreuth.de/en>