

59th LCA Discussion Forum

NATIONAL ENVIRONMENTAL FOOTPRINTS AND PLANETARY BOUNDARIES: FROM METHODOLOGY TO POLICY IMPLEMENTATION

12 June, 2015, ETH Zürich, Alumni Pavillon

We cordially invite you to the **59th Discussion Forum on Life Cycle Assessment**
The official language of this event is English

The concept of environmental planetary boundaries published in the scientific literature receives a growing interest by governments. Even companies are starting to use this concept in their environmental policy. Life cycle assessment (LCA) seems to be a promising partner of the planetary boundary concepts quantifying consumption based environmental impacts. This LCA forum contributes to bringing together national environmental footprinting and environmental planetary boundary concepts (an introduction to the concept of planetary boundaries and their application can be found at <http://www.stockholmresilience.org/planetary-boundaries>).

(How) can LCA approaches be used to relate regional environmental impacts to planetary boundaries, to the environmental carrying capacity of our planet earth?

Nations and regions, such as the EU and Switzerland, started to quantify their consumption based environmental footprint by including environmental impacts caused abroad.

Different approaches are used to quantify these impacts:

- 1) environmentally extended input-output tables, sometimes multi-regional and connecting main global trade partners;
- 2) LCA data combined with national and trade statistics;
- 3) other statistical approaches.

The forum allows to learn about recent research findings about the environmental footprint of nations as well as about the environmental planetary boundaries, and to hear about first plans and experiences with policy implementation in administration and industry. The participants will have the opportunity to discuss in breakout groups about pros and cons of different approaches, about future needs of policy makers, and the appropriate level of aggregation.

We look forward to meeting you in Zürich



Rolf Frischknecht, treeze Ltd.

on behalf of the Organising Committee

Final Programme

Time	Title	Speaker	[Moderator]
8:30	Registration, coffee & croissants		
9:15	Welcome and introduction	Rolf Frischknecht, treeze Ltd.	
	Planetary boundary concept		[Rolf Frischknecht]
9:20	General overview about the planetary boundary concept	Dieter Gerten, Potsdam Institute for Climate Impact Research	
9:40	Environmental Limits and Swiss footprints based on Planetary Boundaries	Hy Dao, UNEP Grid Geneva — Damien Friot, Shaping Environmental Action	
10:00	Deriving targets for global resource use for planetary boundaries - material, land use and water	Fritz Hinterberger, Sustainable Europe Research Institute (SERI)	
10:20	Life cycle indicators – assessing the environmental impacts of EU consumption *	Malgorzata Goralczyk, European Commission, DG JRC	
10:40	Discussion		
10:50	Coffee break		
	Implementation in public, corporate and product policy		[Rolf Frischknecht]
11:20	Policy interest in relating footprint indicators to planetary boundaries	Andreas Hauser, Bundesamt für Umwelt BAFU	
11:40	Implementation of planetary boundaries on company level *	Christopher Butz, Pictet Asset Management — Jürg Liechti, Neosys AG	
12:00	Planetary Boundary Allowance PBA'05: A tentative implementation of Rockström's planetary boundaries as Life Cycle Impact Assessment method	Gabor Doka, Doka LCA, Zürich	
12:20	Discussion		
12:30	Lunch		
	National environmental footprints		[Laura Tschümperlin, treeze Ltd.]
13:30	Ecological Footprint accounting tools to drive informed policy decisions	Michel Gressot, Global Footprint Network	
13:50	Global environmental impacts of production and consumption in Switzerland from 1996 to 2011	Rolf Frischknecht, treeze Ltd. — Carsten Nathani, Rütter Soceco AG	
14:10	Multi-regional Environmentally Extended Input Output database	Arnold Tukker, CML Leiden University	
14:30	Discussion		
	Workshop – three breakout groups		[Laura Tschümperlin]
14:50	Introduction to the three workshop breakout groups		
15:00	Coffee break		
15:30	Tentative topics : – environmental priority areas – future needs in administration and industry – appropriate aggregation level	Andreas Hauser, BAFU Rolf Frischknecht, treeze Ltd. Arnold Tukker, CML Leiden University	
16:15	Presentation of workshop results	Breakout groups	
16:40	Wrap-up and announcements	Rolf Frischknecht, treeze Ltd.	
16:45	Farewell		

*: no video recordings after the event

Practical information

Registration

To register for the 59th DF, please use the following link:

<http://www.registration.ethz.ch/eventolight/>

At the first instance you visit this Website you will be asked to create an account. Afterwards, please login with the information that is sent to you by email. Please click on “published events”, then select “Discussion forum on life cycle assessment 2015” and then click “Anmelden”. Afterwards, please follow the instructions.

Programme updates will be available at: www.lcaforum.ch

Lunch

Vouchers for lunch at the ETH restaurant will be provided to all participants. A vegetarian meal option is always on offer.

Location

The DF will take place in the Alumni (GEP) Pavillon, Swiss Federal Institute of Technology Zurich, 8001 Zurich.

<https://maps.google.ch/maps/ms?msa=0&msid=205813047619347088253.0004e0af154b1fc2c1968&ie=UTF8&ll=47.376616,8.546441&spn=0.00287,0.006968&t=m&z=18&vpsrc=6&iwloc=0004e0af154df9d0190e4>



For further information, please contact Barbara Dold: lcaforum@ethz.ch