

59th LCA Discussion Forum

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

June 12, 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

Preliminary Programme (as of May 15, 2015):

Time	Title	Speaker [Moderator]
8:30	Registration, coffee & croissants	
9:15	Welcome and introduction	
	Planetary boundary concept	
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	Indicators and targets for the reduction of environmental impact of EU consumption	Malgorzata Goralczyk, DG JRC
10:40	Discussion	
10:50	Coffee break	
	Implementation in public, corporate and product policy	
11:20	Policy interest in relating footprint indicators to planetary boundaries	Andreas Hauser, BAFU
11:40	Implementation of planetary boundaries on company level	Christoph 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	
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 Sococo AG
14:10	Multi-regional Environmentally Extended Input Output database	Arnold Tukker, CML Leiden University
14:30	Discussion	
	Short presentations	
14:40	Short presentations, please submit your proposal to frischknecht@treeze.ch	max. 3 short presentations
15:10	Coffee break	
	Workshop – 3 breakout groups	
15:40	Tentative topics : <ul style="list-style-type: none"> – environmental priority areas – future needs in administration – appropriate aggregation level 	
16:10	Presentation of workshop results	
16:40	Wrap-up and announcements	Rolf Frischknecht, treeze Ltd.
16:45	Farewell	

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