

From DF 39 to DF69

39. LCA Discussion Forum

Regionalization in LCA

Discussion forum on Life Cycle Assessment
November 13, 2009, 9:30, ETH Zurich, Semper Aula

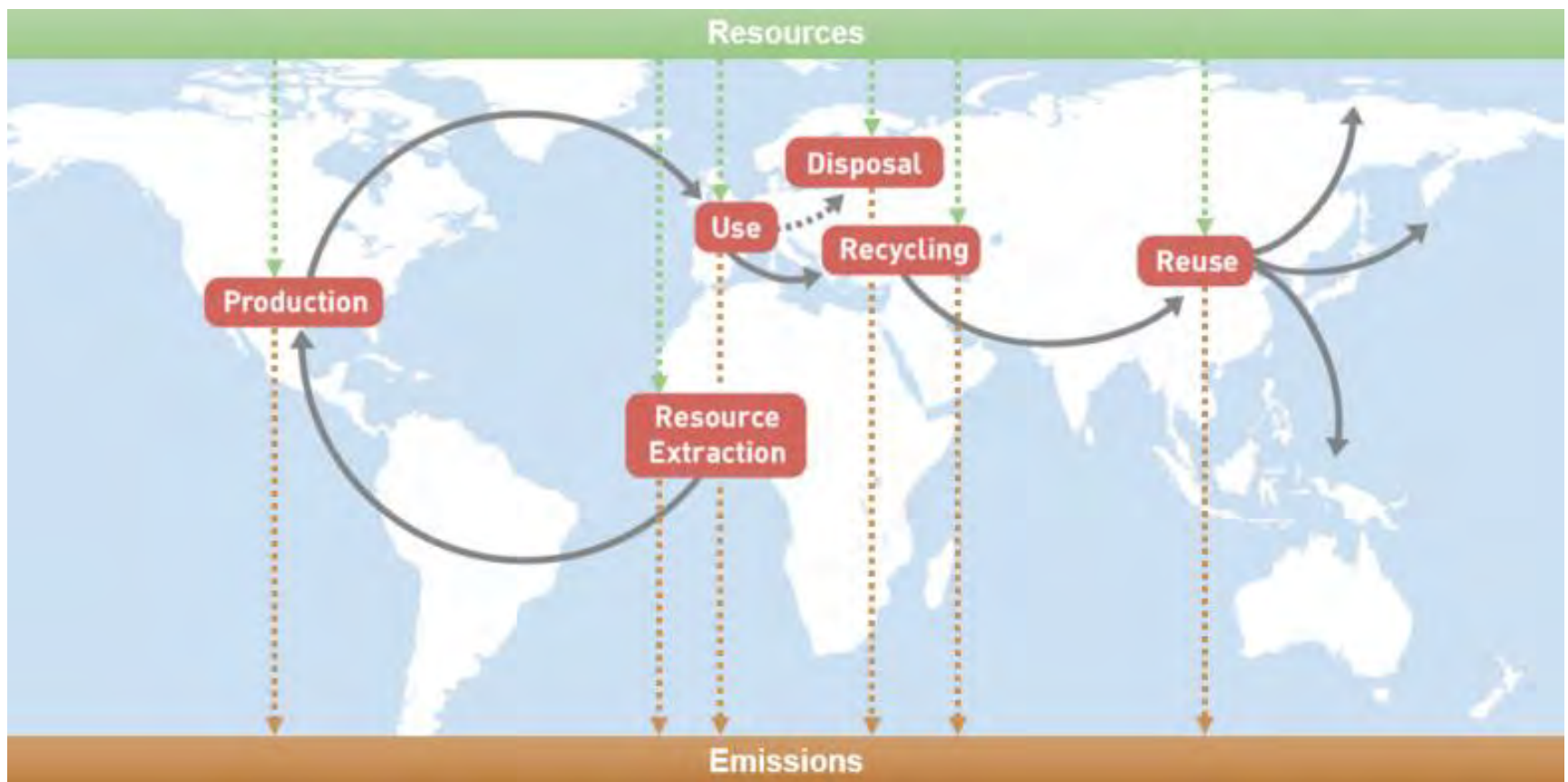
Topics 2009

- **The Need for Regionalization**
- **Regionalized Life Cycle Inventories**
- **Regionalized Life Cycle Impact Assessment**
- **Discussions**

Full Programm @ www.lcaforum.ch

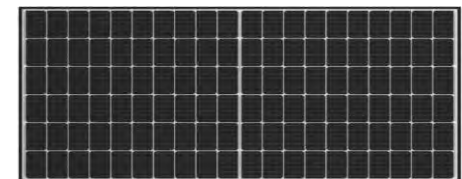
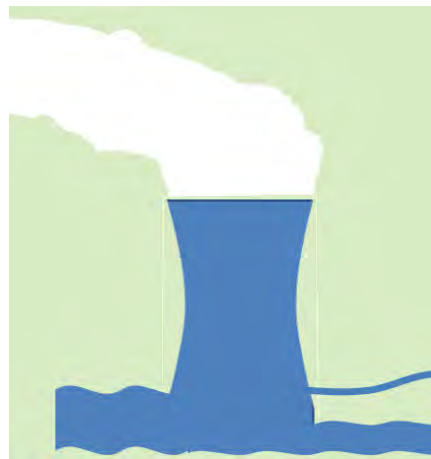
Regionalization needs LCI

- Globalized economy



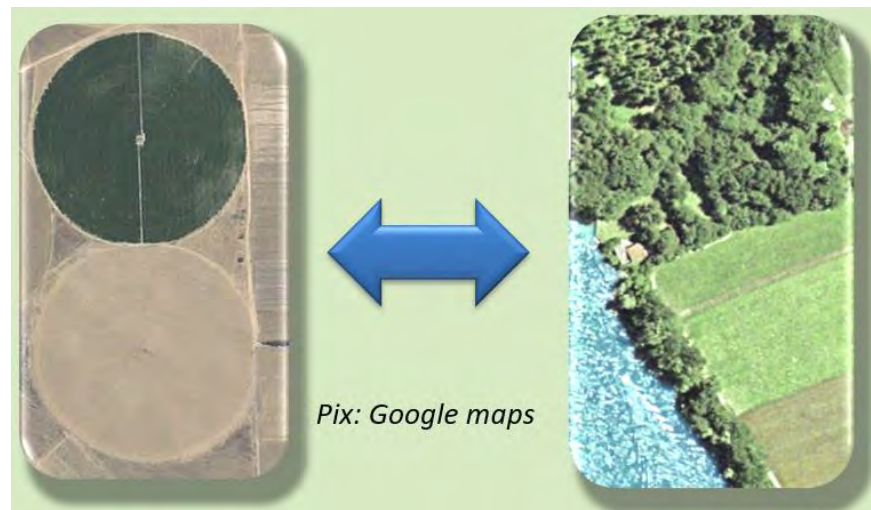
Regionalization needs LCI

- Globalized economy
- Specifying a system includes its location, e.g.
 - Electricity mix
 - Transport types



Regionalization needs LCI

- Globalized economy
- Specifying a system includes its location, e.g.
 - Electricity mix
 - Transport types
 - Irrigation needs
 - Efficiency

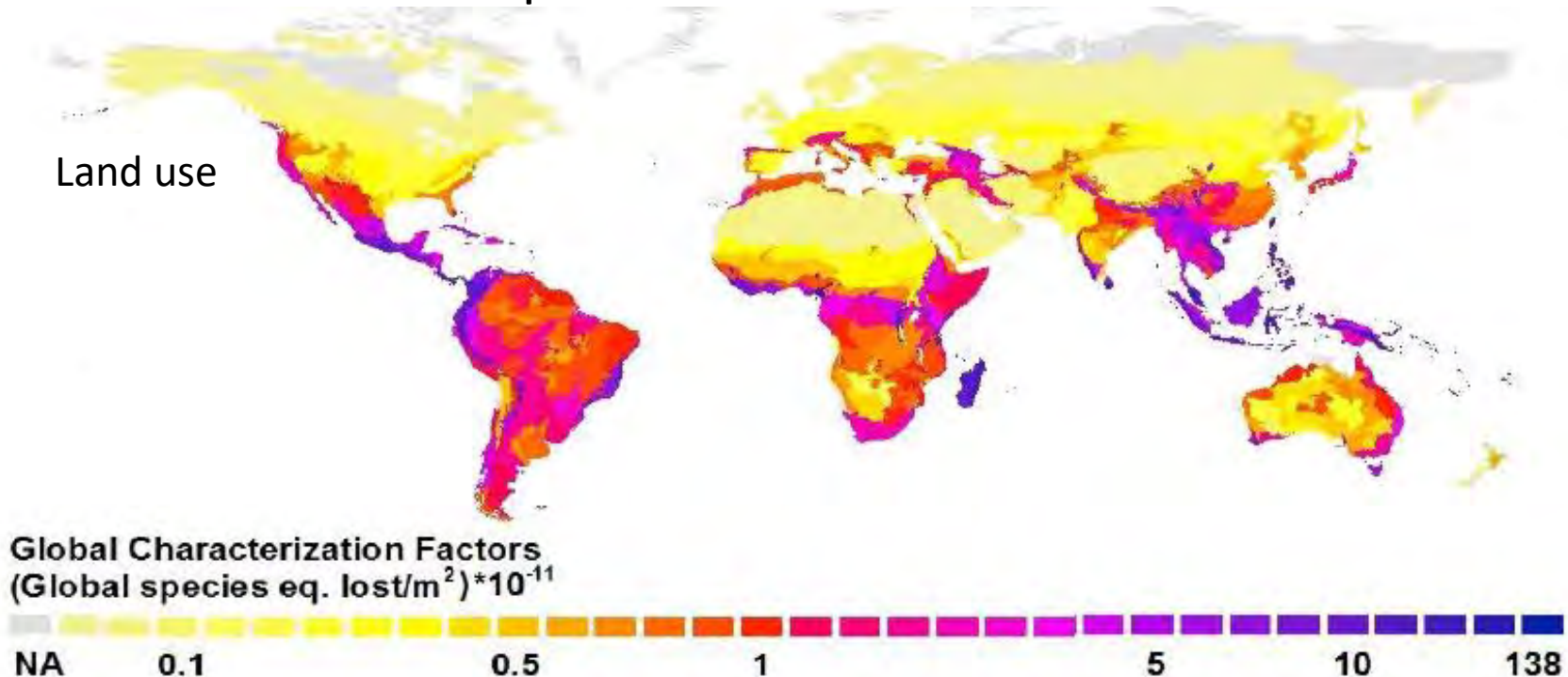


Regionalization needs LCI

- Globalized economy
- Specifying a system includes its location, e.g.
 - Electricity mix
 - Transport types
 - Irrigation needs
 - Efficiency
- Addressed in pedigree matrix approach for LCI uncertainty:
 - Indicator 4: Geographical Correlation

Regionalization needs LCIA

- Many impact categories require regionalization, e.g. UNEP/SETAC recommended methods for
 - Land use
 - Water consumption



Regionalization needs LCIA

- Many impact categories require regionalization, e.g. UNEP/SETAC recommended methods for
 - Land use
 - Water consumption
- Differences among regions can dominate results
 - Can be more important than inventories
 - Also within countries



Regionalization limitations

- Duplication of processes and elementary flows for many location
 - Data collection efforts (quality loss)
 - Size of database is limiting calculations
 - New procedures required
- Different LCIA methods require different scales

Life cycle initiative

- Task force on Regionalisation
 - Focus on impact assessment
 - Paper submitted (*Mutel et al.*):
“Overview and recommendations for regionalized life cycle impact assessment”
 - Currently, resolution mainly based on data availability
 - Call for better documentation of results (e.g. before aggregation to country level)
 - Report uncertainty and variability of aggregated CFs
 - No general agreement for definition of sub-national scale
 - Recommendation of technical standard

Your day today

Morning

- Challenges and opportunities of regionalized LCIA
- How to use current information and tools for regionalized LCA

Afternoon

- Regionalized LCA in background databases
- Software Solutions for regionalized LCA
- Panel discussion and wrap up



LCA Forum 69

Regionalization in LCA:

Current status in concepts, software and databases

ETH Zürich, 13 September, 2018

Morning: 9:10-12:30

Afternoon: 13:30-17:00

WLAN access: public-5 or public
login: LCAforum / password: DF69