

Group II:

Temporally differentiated weighting - Consequences for LCI

Question 1:

Where does the technosphere end and where does the Biosphere start?

Currently landfill models and fate models of pollutants emitted to soil have been developed independently. The group agreed that a harmonisation of the approaches used in landfill modelling and in fate modelling is due.

Question 2:

What are the consequences of a higher temporal resolution in terms of

- *effort,*
- *technical solution in LCA tools and generic databases*

on the one hand and what is the added value on the other?

The group sees no need for a further temporal differentiation at this point in time.

If a further differentiation were needed, its resolution needs to be higher for the near future as compared to the resolution required for the far distant future (the resolution might for instance be 1, 2, 5, 10, 20, 50, 100, 200, 500, etc.). This would then correspond to the exponential property of discounting effects.

Question 3:

Where to allocate scarce resources (time and money) for further update and extension work for generic LCA databases?

Rather focus on regional differentiation in landfill modelling (due to large climatic differences, e.g. amount of rainwater) or strive for increasing consistency in LCI modelling (e.g. electricity mix models).