LCA & construction
...to built environment

...to constructions

...Materials

LCA from...
Only a few... of many research challenges

- Scales changes and their coherency
  - Usable and coherent data and indicators from materials to cities
- Land use, urban sprawl and biodiversity
  - Interactions between built and natural environments
- Operational tools
  - Real time LCA processing
  - Modeling the use phase
    - to reach preventive management
    - to design for long term environmental performances
- Localized approaches for implanted objects
  - Design with local resources
  - Assess local impacts in the global impact frame
Where are we now?

- Jeroen Guinée U. Leiden
  - LCA: past, present and future
- Arpad Horvath U. Berkeley
  - LCA in civil engineering