Global Guidance Principles for LCA Databases and follow on activities

LCA XI Chicago, October 2011

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Outline

- Background and “History”
- Pellston Workshop
- The Shonan Global Guidance Principles for LCA databases
- What’s next
1. Background
Background of the Shonan Guidance Principles

- EcoBalance Toko, December 2008: “an elephant in the room”
- SETAC case study symposium Paris 2009: Lunch with David Pennington, Bo Weidema, Mark Goedkoop, Sonia Valdivia, Guido Sonnemann, Andreas Ciroth
  → “we are not that different and it should be possible to define and explicitly state common denominators in LCA database development”
  → Idea for an international expert workshop to develop / specify these
  → SETAC has a successful format for these workshops, “Pellston Workshop”.
Goal of the workshop

Address both organisational and technical issues related to LCA database guidance:

Organisational issues: Agreement on principles at the global level on how to set up and manage LCA databases.

Technical issues: Requirements on goal & scope, modelling, quality, documentation and review.

OUT OF SCOPE: data format (too technical, different expert audience, …)
a Global Guidance on LCA DB - motivation

- Global guidance is basis for improved interlinkages of databases worldwide.
- Facilitate additional data generation (including carbon and water footprint data) and enhance overall data accessibility.
- Increase credibility of existing LCA data, including usability for various purposes.
- Support a sound scientific basis for product stewardship in business & industry and life cycle based policies in governments, and ultimately, to help advance the sustainability of products.

It should complement other ongoing initiatives.
2. The Pellston Workshop
## Guidance Documents and Related Materials as Input

Compiled into a „synopsis“ used by the experts in the workshop

<table>
<thead>
<tr>
<th>China*</th>
<th>India*</th>
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<tbody>
<tr>
<td>CPM – Guidelines for LCA Data</td>
<td>Japan – LCA Data Collection</td>
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<td>EC - The International Reference Life Cycle Data System (ILCD)</td>
<td>NEEDS - New Energy Externalities Developments for Sustainability</td>
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<td>Environmental services sector (Veolia Environment) #</td>
<td>Plastics Europe #</td>
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<td>FEFCO - European Database for Corrugated Board #</td>
<td>Switzerland - ecoinvent</td>
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<td>France*</td>
<td>US - LCI Database</td>
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<td>WBCSD/ WRI - GHG Protocol</td>
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# Best practices for a sector

* Recommendations towards a global guidance document
What are the capacity development actions to promote more generation and exchange of LC data worldwide?
Global (Pellston) Workshop Shonan Village Center, Japan, 30 Jan. – 4 Feb. 2011

Facilitate a consensus process to conclude on common agreements by leading LCA database experts worldwide in the area of LCA databases by drafting a guidance document.

Focus on life cycle inventories (but cover the relation to LCIA), not being sector-specific and not developing a common database format.
3. The Shonan Guidance Principles
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1. The Context for Global Guidance Principles for Life Cycle Inventories  
2. Development of Unit Process Datasets  
3. Aggregated Data Development  
4. Data Documentation, Review, and Management  
5. Adaptive Approaches  
6. Cooperation and Capacity Building  
7. Outlook: Future Scenarios for Knowledge Management  
8. Integration and Synthesis  

Annexes  

a. Glossary  
b. Peer Review Report  
c. List of Background Literature  
d. List of Public Stakeholder Consultation Events
Key Guidance, Recommendations

- Data collection critical for producing datasets that are consistent and exchangeable
- Need to maximize transparency whenever possible; provide supplemental information and a review process when aggregation cannot be avoided
- Central position for data documentation and review; only a complete and verifiable documentation makes a dataset
- Differentiation of what does or does not constitute an “LCI database” with DB managers as the primary target
- Active anticipation of trends in (LCA) information management
Shonan Guidelines: Anticipated Benefits

• **Greater consistency and exchangeability among** national, industry association, commercial *databases worldwide*

• **Adoption of guidance principles as de facto global standard** will especially support database teams in developing countries and collaboration in regional networks

• **Facilitation of an expanded marketplace** for developing and managing LCI datasets and use of LCA for decisions

• **Global coordination** among LCI dataset developers and LCA database managers, together with data mining, described as priority components of roadmaps ahead
4. Next steps
Shonan Guidance Principles: Next steps

- *Capacity building worldwide* including a training package and courses *jointly with technical assistance* already planned for the year to come after the launch

- Inclusion of the Shonan requirements / recommendations as part of the UNEP/SETAC *Database Registry* (filter, e.g.), [www.lca-data.org](http://www.lca-data.org)

- Expansion towards *PCR Alignment*?

- ...
Follow on activities

A. Dissemination of printed copies to decision-makers

B. Training in the regions
   - Latin America (Chile, December 2011)
   - China (April 2012)
   - Brazil (September 2012)
   - Others to come
Get your copy now
and work with us in disseminating it!

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Thank you!

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