ECO-INNOVERA Workshop 'Learning about quantitative tools or methodologies for evaluating eco-innovation projects'

How to include social criteria and metrics?



Bernard MAZIJN Brussels, 6 februari 2012

The starting point: two recent UNEP publications.

- Benoit C. and Mazijn B. (Eds.), Guidelines for social life cycle assessment of products A social and socio-economic LCA code of practice complementing environmental LCA and Life Cycle Costing, contributing to the full assessment of goods and services within the context of sustainable development. ISBN: 978-92-807-3021-0, UNEP-DTIE, Paris, 2009, 104 pp.
- Valdivia S., Ugaya C., Sonnemann G. and Hildenbrand J. (Eds.),
 Towards a Life Cycle Sustainability Assessment Making informed choices on products. ISBN: 978-92-807-3175-0,
 UNEP-DTIE, Paris, 2011, 86 pp.

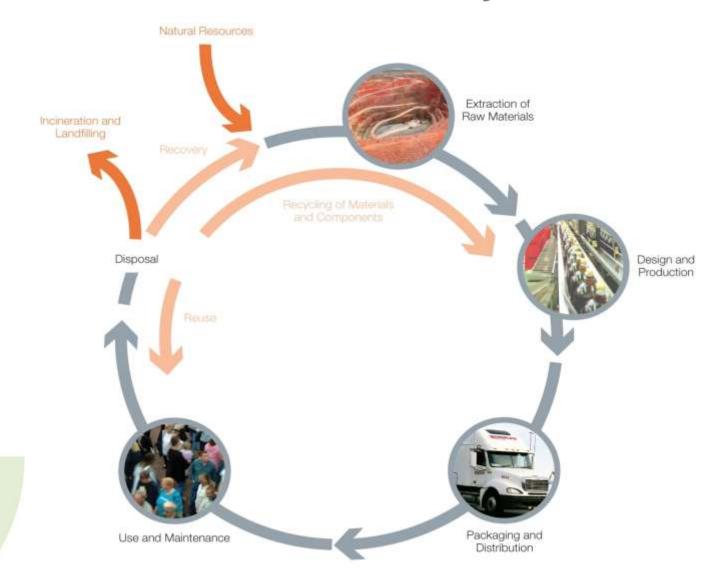
Content

- 1. What is a social LCA?
- 2. Applying sLCA on a result of eco-innovation.
- 3. Similarities and differences between e-LCA and s-LCA.
- 4. Implications for evaluating eco-innovation projects ...

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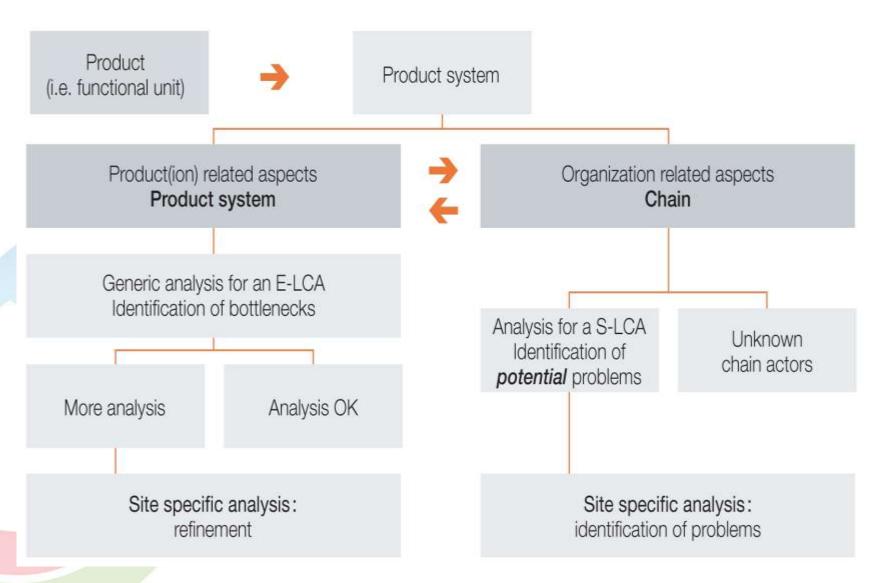
Assessment of the entire life cycle



LCA. Within the context of sustainable development.

	Planet	People	Profit/Prosperity
Externalities (costs or benefits)			
Private costs or benefits			

A twofold analysis



Source: Benoît C. and Mazijn B. (2009)

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Social Life Cycle Assessment (S-LCA)



A social and socio-economic
Life Cycle Assessment (S-LCA)
is a social impact (and potential impact)
assessment technique
that aims to assess
the social and socio-economic aspects
of products and their potential
positive and negative impacts
along their life cycle

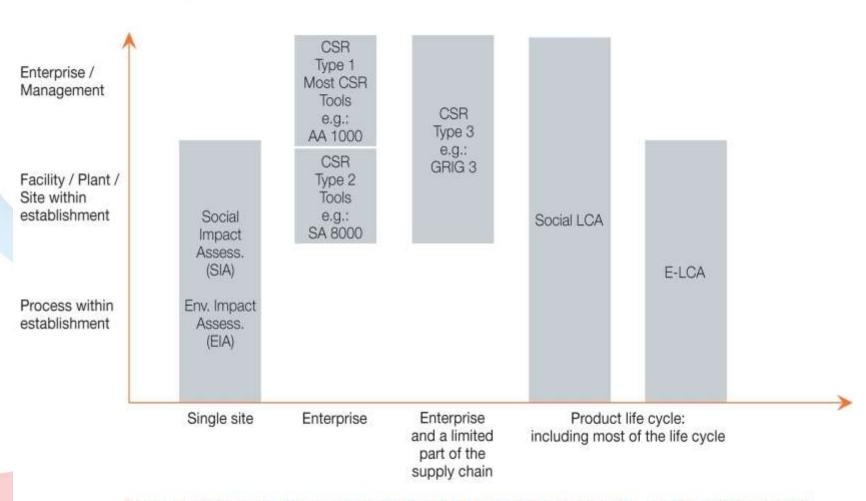
- encompassing extraction and processing of raw materials, manufacturing, use, re-use, maintenance, recycling and final disposal.

Social LCA conforms to ISO 14040, with some adaptations

Goal and scope
Inventory
Impact assessment
Interpret results

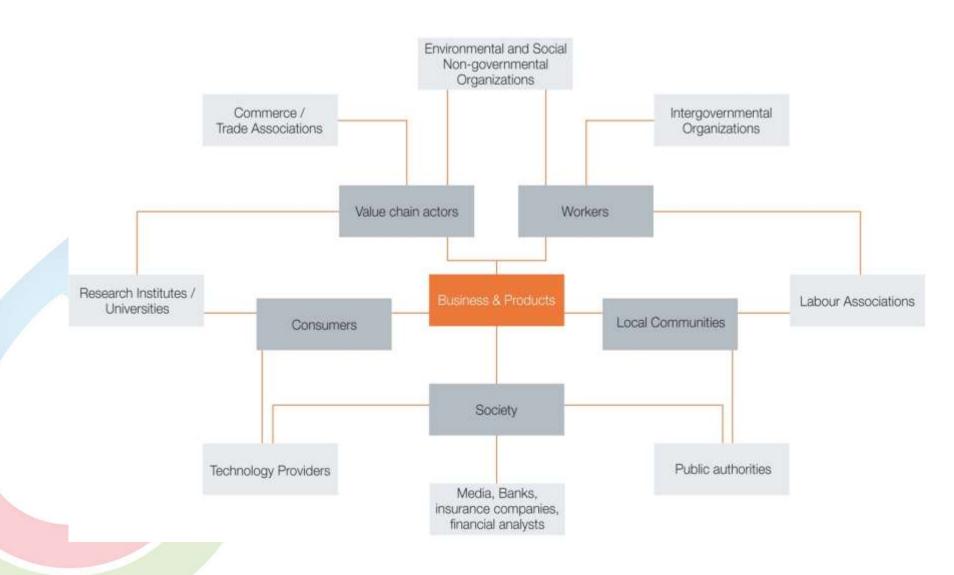
Level and scope of assessment

Level on which data are gathered

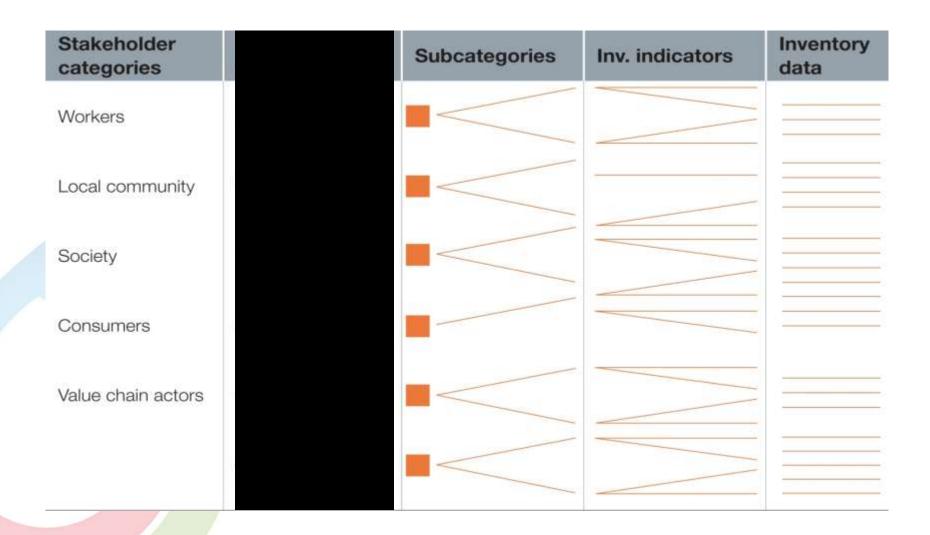


Scope of system over which results are gathered and reported in an assessment, possibly with aggregation

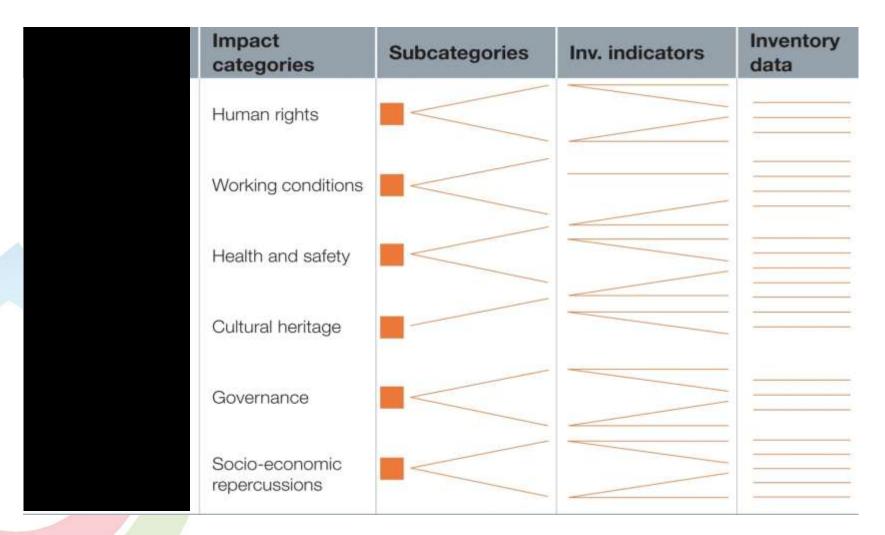
Stakeholder diagram



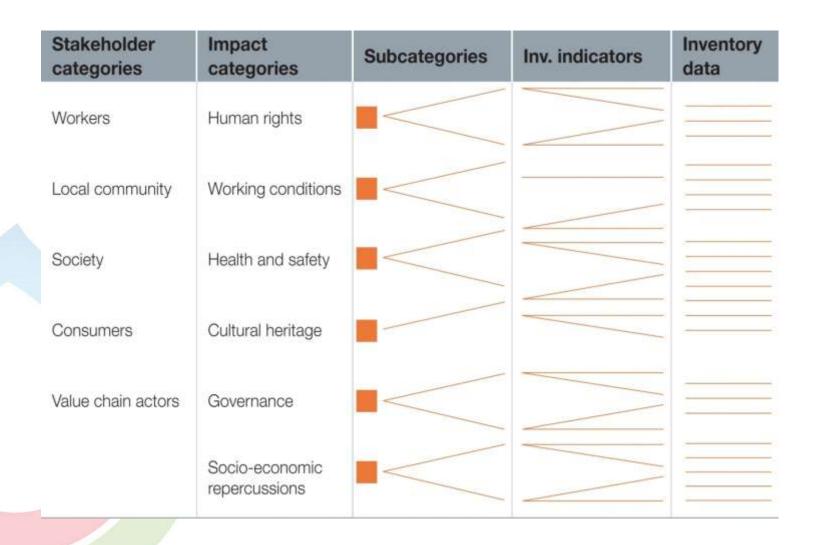
Assessment system



Assessment system



Assessment system



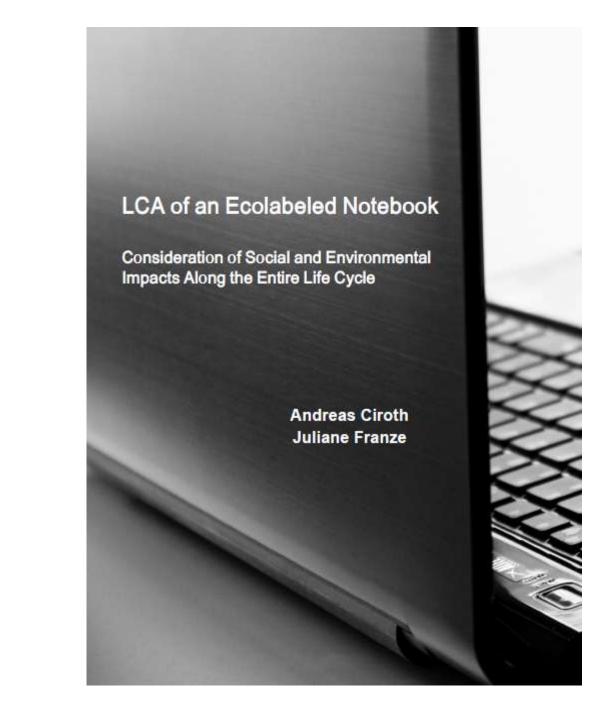
Stakeholder categories	Subcategories		
Stakeholder "worker"	Freedom of Association and Collective Bargaining Child Labour Fair Salary Working Hours Forced Labour Equal opportunities/Discrimination Health and Safety Social Benefits/Social Security		
Stakeholder "consumer"	Health & Safety Feedback Mechanism Consumer Privacy Transparency End of life responsibility		
Stakeholder "local community"	Access to material resources Access to immaterial resources Delocalization and Migration Cultural Heritage Safe & healthy living conditions Respect of indigenous rights Community engagement Local employment Secure living conditions		
Stakeholder "society"	Public commitments to sustainability issues Contribution to economic development Prevention & mitigation of armed conflicts Technology development Corruption		
Value chain actors* not including consumers	Fair competition Promoting social responsibility Supplier relationships Respect of intellectual property rights		

Structure of the Methodological Sheets

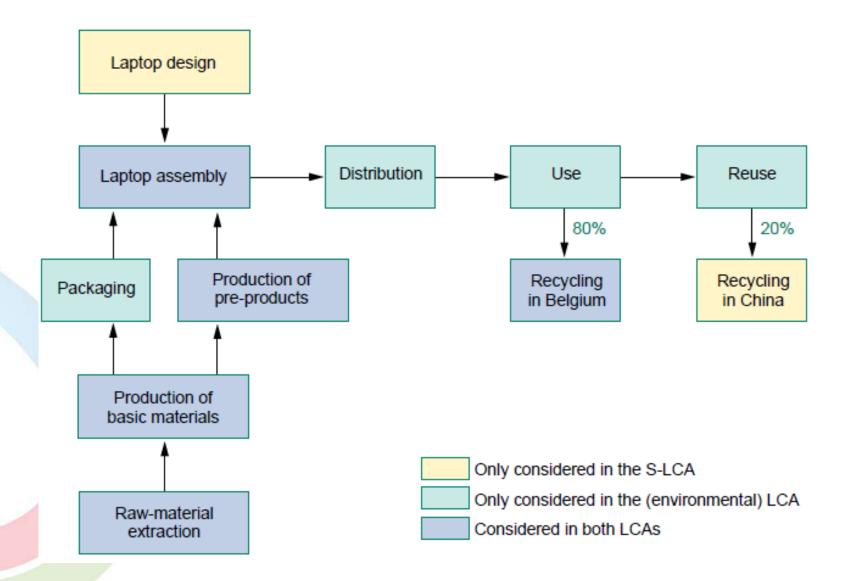
- Definition
- Policy relevance
 - Relevance to Sustainable Development
 - International Conventions and Agreements
 - International Targets/Recommended Standards
- Assessment of data
 - Data Needed to Compile the Subcategory
 - National and International Data Availability and Sources:
 - Generic data source examples
 - Site-specific data source examples
- References

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Life cycle of the laptop

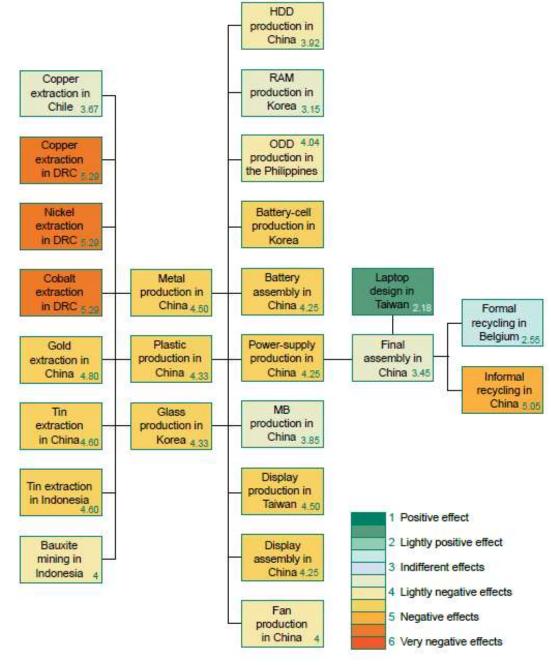


Source: Valdivia S. et al. (2011)

Method

- UNEP/SETAC guidelines as basis
- Determination of stakeholders, subcategories, and indicators
- Data sources for generic data:
 - governmental and non-governmental organizations
 - internet research and literature review
- Data sources for company-specific data:
 - corporate reports and websites
 - reports from NGOs
 - questionnaires
 - interviews with workers
 - internet research
- Application of a Social Life Cycle Impact Assessment method

Results of the sLCIA



Source: Valdivia S. et al. (2011)

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Similarities between e-LCA and s-LCA

- Share a common trunk: the ISO framework
- Have a huge need for data
- Work as iterative procedures
- Encourage and request peer review if appropriate
- Provide useful information for decision-making
- VXheXheX oX nXt xxpiXxdXctXshXulX bX pXoXxcXd
- Conduct 'hotspot' assessments
- Conduct data quality assessment
- Do not generally express impacts by functional unit, if semi-quantitative or qualitative data are used.

Differences with an e-LCA

- More focus on organisational aspects (e.g. management behaviour)
- More focus on use phase impacts
- If impact subcategory is not included: justification
- Site-specific data more important
- Subjective data is sometimes the most appropriate information to use
- Benefits (negative damage) are often of importance
- Indicators are classified according to stakeholders

Linkages with other environmental and social impact assessment tools from the CSR landscape



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Let's look at it from another angle

- Within a context of sustainable development, it can be expected that (eco-)innovation projects are internalizing social responsibility.
- Environmental issues are dealt with (cf. 'eco'), but there are 6 other groups of societal concern: organizational governance, human rights, labour practices, fair operating practices, consumer issues, community involvement and development.
- There are two international standards which are incorporating these concerns:
 - ISO 26000 Guidance on social responsibility
 - Global Reporting Initiative Guidelines
- ISO 26000 is meant for setting up a process towards internalizing SR, GRI is used for sustainability reporting.
- Both are stressing the importance of value chain responsibility.

ISO 26000

Core subject: Fair operating practices Issue 4: Promoting SR in the value chain

Related actions and expectations - To promote SR in its value chain, an organization should:

- in its purchasing, distribution and contracting policies and practices...
- encourage other organizations ...
- carry out appropriate due diligence ...
- consider providing support to SMOs ...
- actively participate in raising the awareness of organizations ...
- promote fair and practical treatment of the costs and benefits ...

Global Reporting Initiative Performance indicators

- **EC 6** Policy, practices, and proportion of spending on locally-based suppliers at significant locations of operation.
- **EC 9** Understanding and describing significant indirect economic impacts, including the extent of impacts.
- **EN12** Description of significant impacts of activities, products, and services on biodiversity in protected areas and areas of high biodiversity value outside protected areas.
- HR 2 Percentage of significant suppliers, contractors, and other business partners that have undergone human rights screening, and actions taken.

and almost all indicators related to 'Product Responsibility'!

How can a dossier be underpinned?

- The results of an ex ante social LCA could be added.
- But there are important hurdles:
 - it might be 'a project' for which the suppliers etc. are not contracted yet;
 - sLCA requires a site specific assessment of 'the hotspots';

- ...

 Mazijn B., Devriendt S., Storme N. en Vandermeeren J., (2012), *Making sustainable entrepreneurship visible and feasible in Flanders.* Research Report, Flemish Public Authority, Department of Work and Social Economy, 114 pp

Requirements for obtaining financial support for (eco-)innovation projects: different options

- Option 1: prior to requesting support, each organisation (including companies) should make a sustainability report according to the GRI guidelines, which has been published and independently tested.
- Option 2: a previously published (and independently tested) sustainability report according to GRI-guidelines will be taken into account in the evaluation of applications to receive financial aid. This document will receive a weighting factor of 1/5 during evaluation in a list of included criteria.

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In addition.

- It should also be noted that the publication of a sustainability report (as a condition or otherwise) is not a one-time event but rather a repeated effort in time (annual or biannual).
- If financial support is obtained, progress in optimizing the value chain, based on a LCSA approach, should be documented in each sustainability report.
- Should organizations (including companies) fail to make this repeated effort, the government can reclaim the received financial aid.

By doing so, social criteria and metrics can be taken into account when evaluating (eco-)innovation projects.

