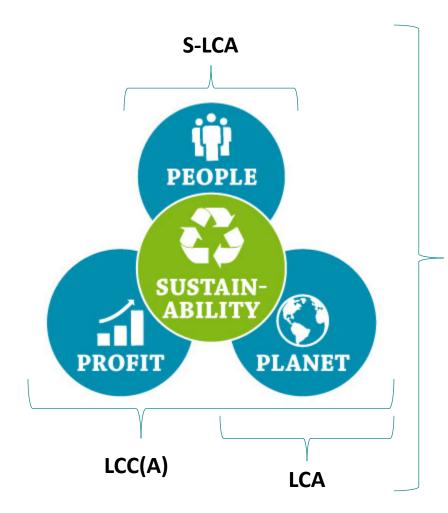


Short introduction to Social Life Cycle Assessment

REBUS Seminar 2020-12-17 Sebastian Welling



Sustainability – different methods



LCSA

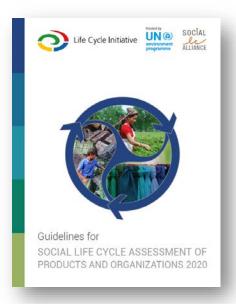
"A social and socio-economic Life Cycle Assessment (S-LCA) is a social impact (actual and potential impacts) assessment technique that aims to assess the social and socio-economic aspects of products and their positive and negative impacts along their life cycle encompassing extraction and processing of raw materials, manufacturing, distribution, use, re-use, maintenance, recycling, and final disposal."

- Guidelines for S-LCA of Products and Organizations 2020

LCA: Life Cycle Assessment

LCC(A): Life Cycle Cost (Analysis)
S-LCA: Social Life Cycle Assessment

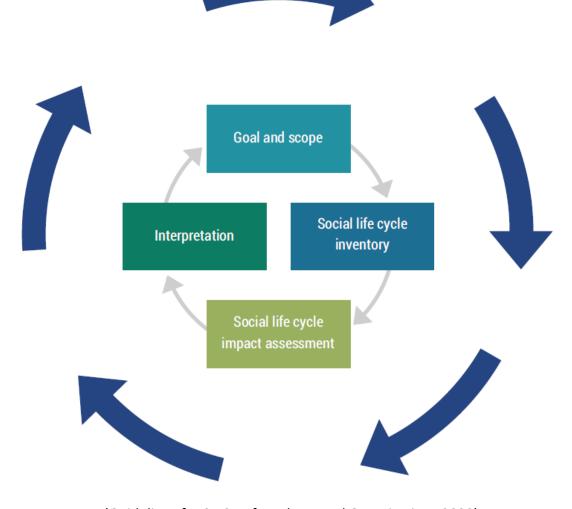
LCSA: Life Cycle Sustainability Assessment





How does S-LCA work?

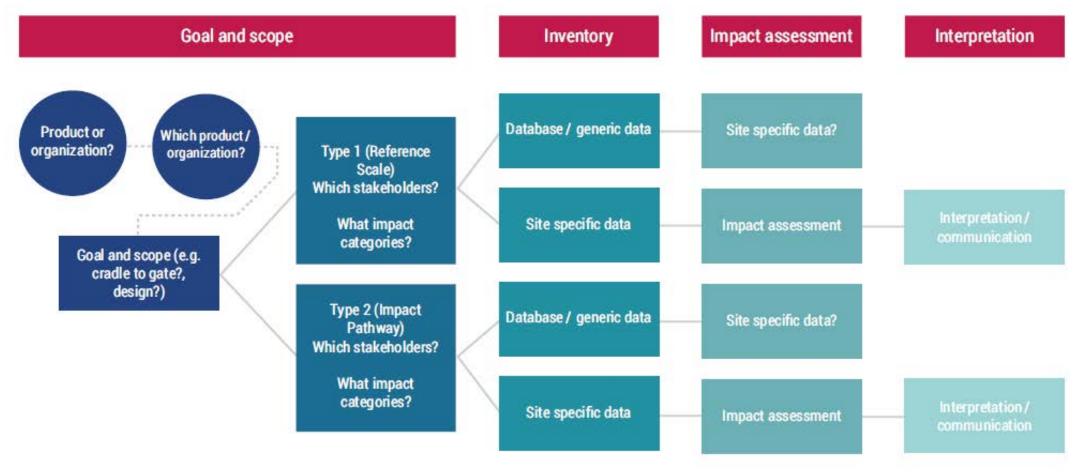
- Systematic approach
 - Goal and scope
 - Social life cycle inventory
 - Social life cycle impact assessment
 - Interpretation



(Guidelines for S-LCA of Products and Organizations 2020)



How does S-LCA work?



(Guidelines for S-LCA of Products and Organizations 2020)



Choice of impact categories

| Stakeholder categories | Impact categories | Subcategories | Inventory indicators | Inventory data | Worker | Local community | Value chain actors (not including consumers) | Consumer | Society | Children |
|---------------------------|------------------------------|---------------|-------------------------|----------------|--|---|---|--|---|--|
| Workers | Human rights | * | | | Freedom of association and collective barganing | Access to material re- sources Access to | Fair competition Promoting social responsi- | Health and safety Feedback mecha- | Public com- mitments to sustainability issues | Education provided in the local commu- nity |
| Local community | Working conditions | * | | | Child lbor Fair salary Working hours | immaterial resources 3. Delocalization and migra- | bility 3. Supplier relationships 4. Respect of | nism 3. Consumer privacy 4. Transparen- | Contribution to economic de- velopment Prevention | Health issues for children as consumers Children |
| Society | Health and safety | * | | | 5. Forced labor 6. Equal opportu- nities / discri- | tion 4. Cultural heritage 5. Safe and | intellectual property rights 5. Wealth distri- | cy 5. End-of-life res- ponsibility | and mitigation of armed conflicts 4. Technology de- | concerns regarding marketing practices |
| Consumers | Cultural heritage | * | | | mination 7. Health and safety 8. Social bene- fits/social | healthy living conditions 6. Respect of indigenous rights | bution | | velopment 5. Corruption 6. Ethical treatment of animals | |
| Value chain actors | Governance | * | | | security 9. Employment rela- tionship | 7. Community engagement 8. Local employment | | | 7. Poverty allevia- tion | |
| | Socio-economic repercussions | * | | | 10. Sexual haras- sment 11. Smallholders including farmers | 9. Secure living conditions | | | | |



Differences in scope and inventory analysis

Contents lists available at ScienceCirect

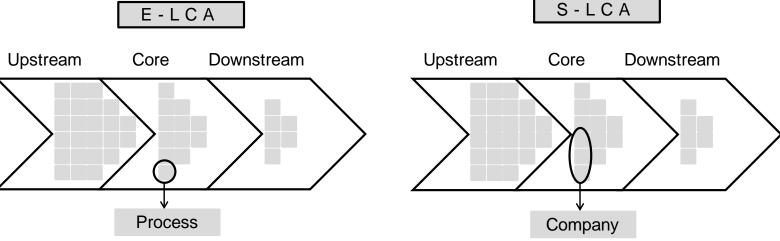
Sustainable Production and Consumption

journal homepage: www.elsovier.com/sucutorage

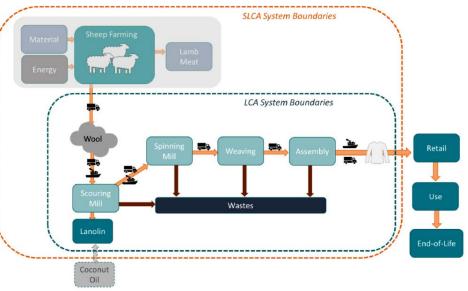
Research article

Environmental and social performance of valorizing waste wool for sweater production

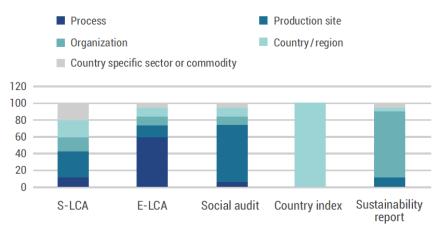
PM Swelish Environmental Ensured: Interface, I for Cycle Management, Socialisable Society, Ushalkanigyer RI, 114: 27 Socialishin, Swelan XTVI Royal Institute of Technology, Department of Stationable Development, Environmental Science and Engineering (SEED) Technology 10h, 114 Socialismi, Swelan



(Dreyer et al., 2006; Hauschild et al., 2008)



SCOPE OF INFORMATION/TOOL



(Guidelines for S-LCA of Products and Organizations 2020)



Problem shifting – the socialenvironmental paradox



