

Social LCA for Step 5 of the SSbD framework

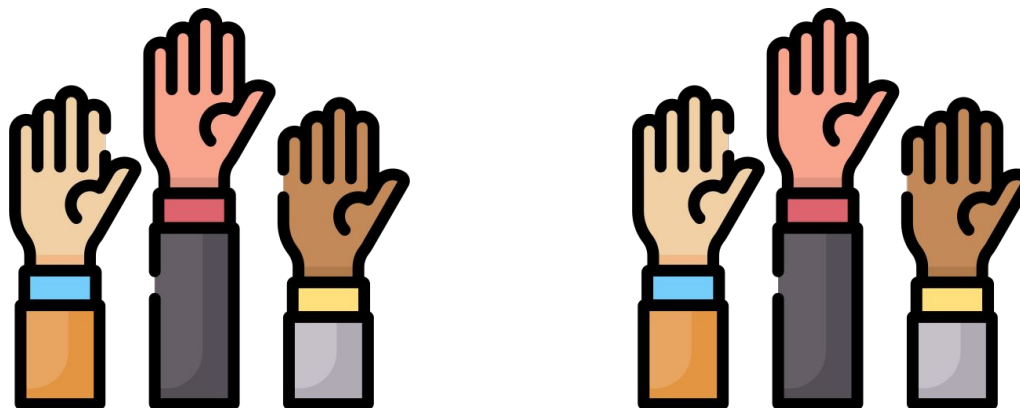
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Is there someone working with S-LCA?



Agenda

S-LCA

**Databases
for S-LCA**

**After the
assessment**

**Case study
example**

Social LCA

"Social life cycle assessment is a technique for assessing social and socio-economic aspects, both positive and negative, of products from a life cycle perspective."

(ISO 14075, 2024)

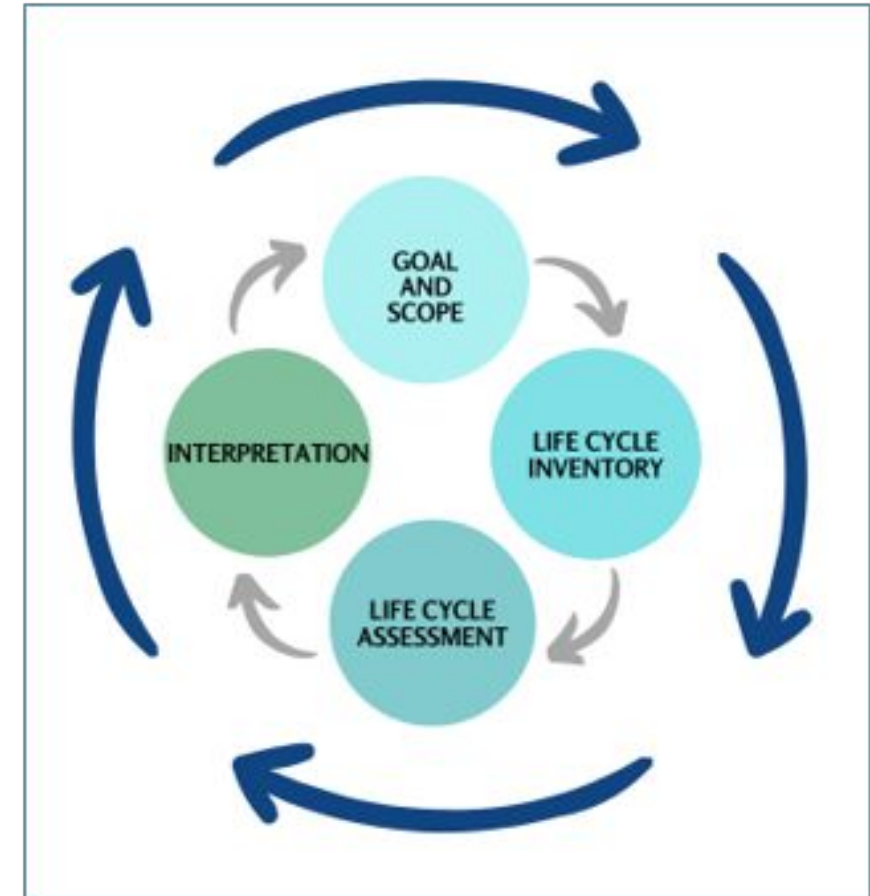
It comprises four phases:

Goal and scope definition;

Social life cycle inventory analysis;

Social life cycle impact assessment;

Interpretation



Uses of S-LCA

Social Hotspots

Activity or location of the supply chain with high social risk

Social Footprint

Overall impacts (positive and negative) related to a FU, specified by social impact subcategory/ category

Social Performance

Overview of the social performance of a product or organization

Social Life Cycle Inventory



Type of data: inventory of all system flows normalized per FU, costs, process locations, social indicators specific data

- Interviews
- Surveys
- Audits
- Literature
- Databases
- NGOs reports

Databases

Activity variable: measure of the contribution of a process to the final output. Most common: Worker-hours (n° of whs to complete an activity)

SHDB/Psilca

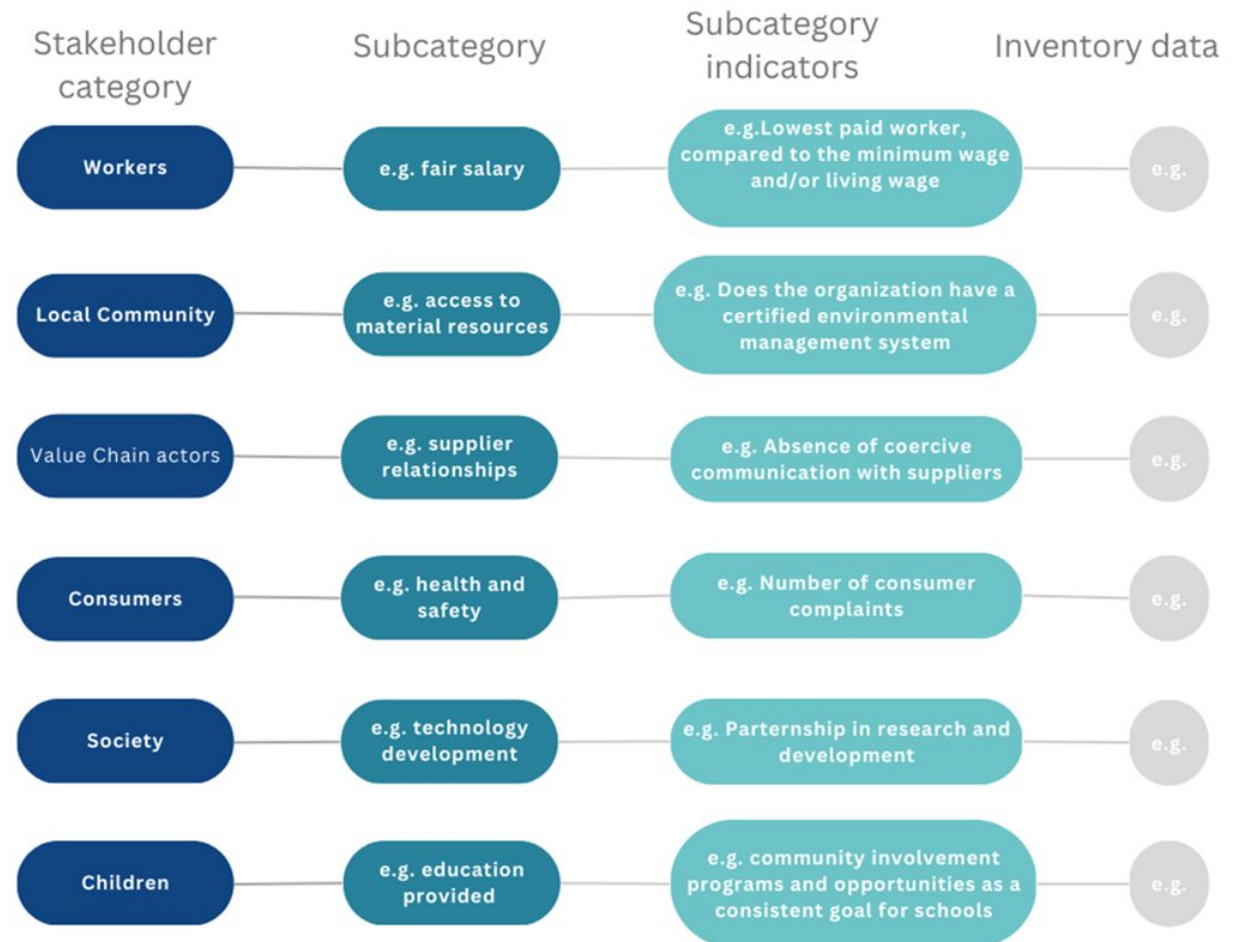
- countries
- sectors
- indicators
- subcategories

Sources

- Statistical agencies (World Bank, ILO, WHO, UN)
- Governamental databases
- NGOs reports
- Country statistics

Social LCIA

- The impacts are calculated with a stakeholder focus
- Inventory data feed specific indicators for each subcategory
- Each subcategory is related to a specific stakeholder
- Two possible impact assessment methods



1. Reference Scale

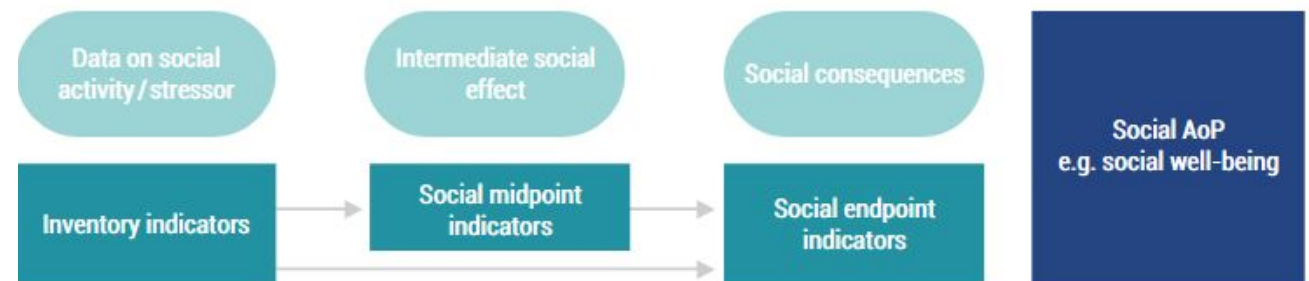
Scale level	Description
+2	Ideal performance. Best in class
+1	Beyond compliance
0	Compliance with local and international laws and/or basic societal expectations
-1	Slightly below compliance level
-2	Starkly below compliance level

For each indicator, a reference scale with corresponding reference points is created, to estimate the social impact associated with the system

Guidelines for S-LCA, UNEP 2020

2. Impact Pathway

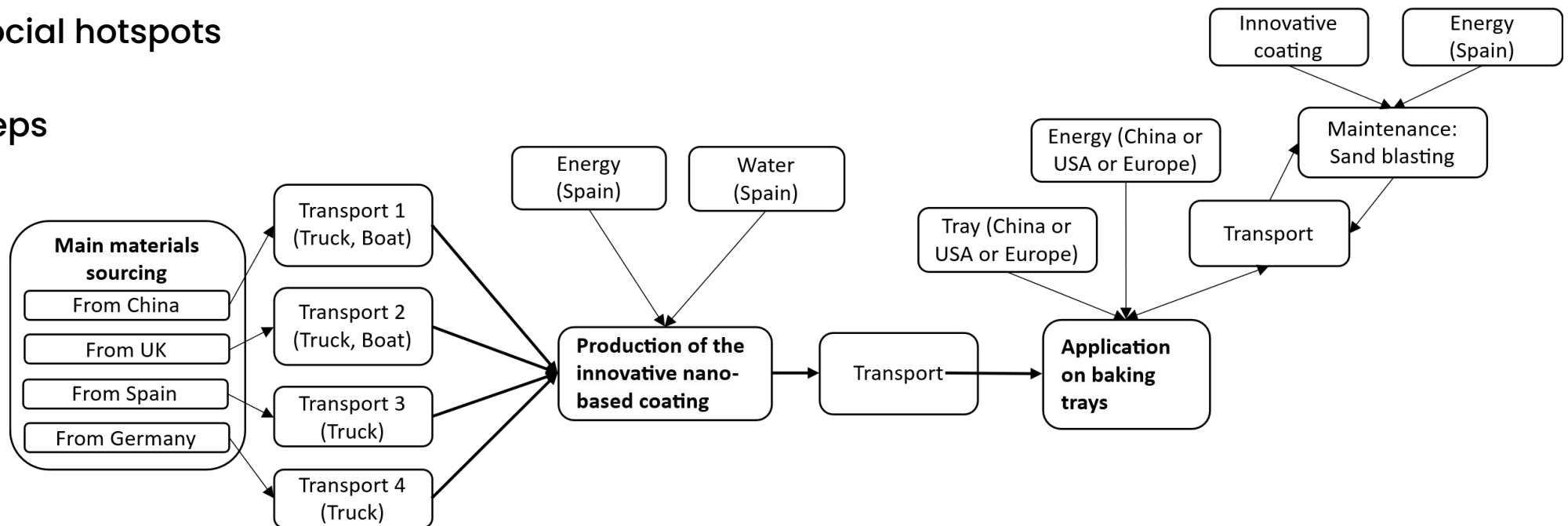
Similar to E-LCIA, it consists of linking inventory data that undergoes a characterization step, and which results in midpoint and or endpoint impact indicators.



Guidelines for S-LCA, UNEP 2020

S-LCA for SSbD

- Data collection: LCA data, costs, locations
- Database processes selection (SHDB)
- Results: social hotspots
- Further steps

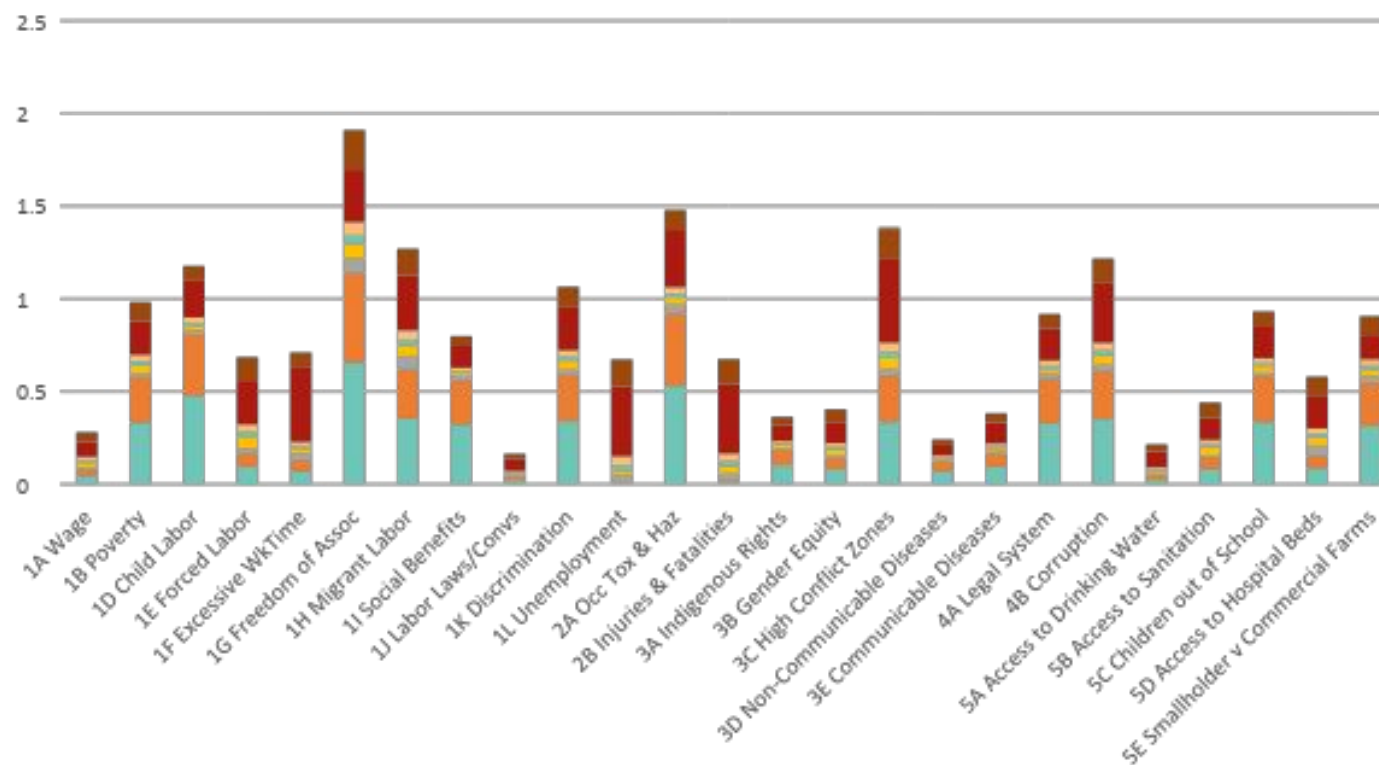


Subcategory results

- By processes
- Hotspots for social risks
- Calculation method: Social Hotspot Index

Very High Risk	10
High Risk	5
Medium Risk	1
Low Risk	0.1

Source: Supporting documentation, SHDB 2019



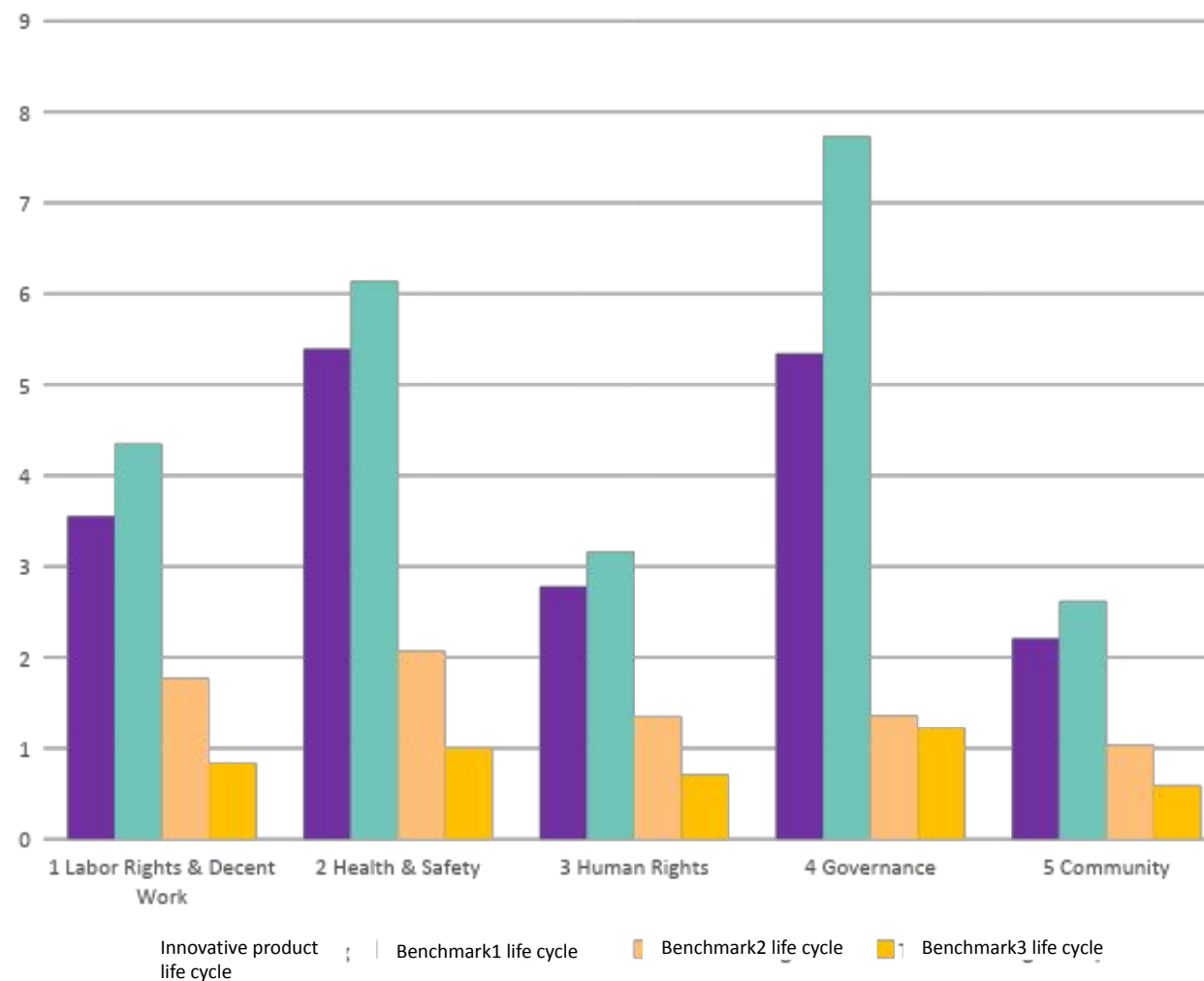
* worker hours = medium risk hours

Category results

Aggregation of subcategories



Source: Supporting documentation, SHDB 2019



After the assessment

Desk research

- Available sustainability reports
- Local NGOs reports
- Literature

Is the company available for a survey?

- Survey to the company
- Survey to the suppliers

Social Sustainability Study for academic research on a product by ~~Laurentia technologies~~

Dear supplier, In the context of the EU Horizon project SUNSHINE, we are studying the sustainability of [...]

2. Can you provide the social sustainability report of the company? (e.g., Corporate Social Responsibility, Global Reporting initiative, United Nations Global Compact, internal sustainability report,...)

☐ Yes, I will send it via email

☐ No

3. Are you aware if any of the company's employees is part of a trade union?

☐ Yes

☐ No

4. Are there limitations for the company's workers to strike?

Thank you for listening!

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