

Contribution of Social Life Cycle Assessment to reach the Sustainable Development Goals

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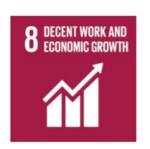
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Introduction: Sustainable Development Goals (SDG)

- Social sustainability in general is addressed; poverty and inequality recognized as multi-dimensional problems (not only in monetary terms)
- socio-economic improvements regarding education, equal job opportunities, infrastructure, migration...



























Introduction: SDG

- Goal 12: Ensure sustainable consumption and production patterns → manage product impacts across entire life cycles
- → All governments shall collaborate to strive to reach these targets, not only developing countries
- especially large and multinational companies are encouraged to adopt sustainable practices
- (Superordinate) core feature = strong focus on means
 of implementation, a.o. capacity-building and
 technology, as well as data and institutions
- → Social Life Cycle Assessment (S-LCA) seems to be an adequate tool

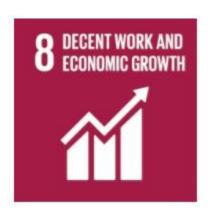


Methodology: S-LCA

- Technique to assess social and socio-economic aspects and impacts along the entire life cycle of products and services
- Basic approach defined by ISO 14040 and 14044

 In contrast to Environmental LCA, positive and negative aspects are included





F. Eisfeldt, A. Ciroth: "S-LCA and SDG" AF14/06/2017



Methodology: S-LCA

- Impacts on different stakeholders are assessed, like workers, local communities, consumers...
- Impacts are grouped by different categories measured by several indicators





Methodology: Example case study

- Conventional cotton T-Shirt without printing
- Based on data from (literature) research, and PSILCA database for background system (in openLCA)

Rudimentary impact assessment method used





Results: S-LCA and SDG

Many goals are already directly addressed by indicators





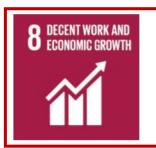


































Results: Direct process contributions





Results: Direct process contributions

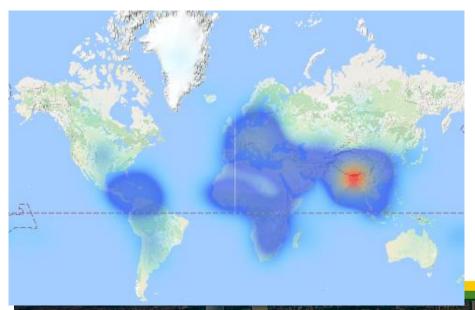




Results: Locations

Association & collective bargaining

Location/Process			Amount	Unit
>		Bangladesh - BD	2.92101	ACB med risk hours
>		China - CN	0.32579	ACB med risk hours
>	1	Malaysia - MY	0.13756	ACB med risk hours
>	1	United States - US	0.12811	ACB med risk hours
>		Mexico - MX	0.04472	ACB med risk hours
>		Germany - DE	0.03404	ACB med risk hours
>		Argentina - AR	0.02616	ACB med risk hours
>		India - IN	0.01848	ACB med risk hours
		T 1 TD	0.04000	100 1111



Contribution to economic development

Location/Pro	cess	Amount	Unit
>	Turkey - TR	-0.00124	C med risk hours
>	Argentina - A	R -0.00200	C med risk hours
>	Mexico - MX	-0.00319	C med risk hours
>	Malaysia - M	Y -0.00321	C med risk hours
>	India - IN	-0.00337	C med risk hours
>	China - CN	-0.00738	C med risk hours
>	Germany - Di	E -0.01560	C med risk hours
>	United States	- US -0.01599	C med risk hours
>	Bangladesh -	BD -0.24421	C med risk hours



Conclusions: Contribution of S-LCA to SDG

MEASURE

- As a tool to contribute systematically to achieve SDG through methodology and provision of data
- Subcategories and indicators are very similar
- → Detect concrete social hotspots and quantify them:
 - → Unit processes as **sectors and activities**
- → S-LCA reveals relevant spheres of influences on business and governmental levels



Conclusions:

Contribution of S-LCA to SDG

MANAGE

- → Identify critical products and sectors to prioritize
 - on national and global level
- Define approach, steps to reach targets and hierarchy of targets and goals
- → No burden-shifting → all governments are responsible
- → By repeating analyses → review progress



Conclusions:

Contribution of S-LCA to SDG

REACH

By targeted (development) cooperation

On **policy level**:

- Prioritize critical "country-specific" SDG/ targets
- adapt national and international laws and trade regulations to the SDG; revise implementation

On **company level**:

- → assume more responsibility in branches and value chain
- → Implement better sustainable business practices
- → Offer targeted CSR activities



Muchas gracias!

Greenbelta

sustainability consulting + software

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