



DISCUSSION FORUM ON
LIFE CYCLE ASSESSMENT

2024

DF 88: Life Cycle Sustainability Assessment: How can Life Cycle Thinking embrace the Triple Bottom Line?

René Itten, Zurich University of Applied Sciences (ZHAW)

Thomas Sonderegger, Ecoinvent

Giuseppe Cecere & Lucia Rigamonti, Politecnico di Milano

DF 88, Friday November 22nd, 2024

ZHAW Wädenswil, Campus Grüental

Zurich University
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The Three Pillar Model

- One formula:
- $LCSA = LCA + LCC + SLCA$
- One question:
- One Life Cycle Assessment or Three?

Kloepffer, W. (2008). Life cycle sustainability assessment of products. The International Journal of Life Cycle Assessment, 13(2), 89–95.
<https://doi.org/10.1065/lca2008.02.376>

Key questions

- Should we integrate across sustainability dimensions?
- What are the methodological concepts for integration across sustainability dimensions?
- How can LCSA be put into practice?

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Programme (1)

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Time	Session	Speaker·[Chair]
08:30	Registration and welcome	Barbara Dold
09:00	LCA and the triple bottom line	[René Itten]
09:00	Welcome and introduction the topic of the day	René Itten, ZHAW
09:15	A EU policy perspective on integration of sustainability considerations in LCA	Serenella Sala, EC-JRC
09:30	From Practice to Policy: Life Cycle Thinking with the European Green Deal Sustainability Framework	Bastien Girod, Deloitte
09:45	Discussion	
10:00	Coffee Break	
10:30	Methodological concepts	[Lucia Rigamonti]
10:30	State-of-the-art LC SA practice	Sonia Valdivia, WRF
10:50	Holistic and Integrated Life Cycle Sustainability Assessment	Walther Zeug, UFZ
11:10	Valuation of social and environmental externalities	Denise Almeida, 2.0 LCA consultants
11:30	Participatory weighting and decision making	Alice Aubert, ZHAW
11:50	Discussion	
12:00	Lunch Break	

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Programme (2)

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13:00	Short Presentations	[Giuseppe Cecere]
13:00	Assessing supply disruption impacts along the supply chain within LCSA—the SPOTTER approach	Marcus Berr, myclimate
13:10	The Challenge of integrating the Triple Bottom Line: LCSA of a Multi-Fuel Propulsion System for Sustainable Shipping	Alena Frehner, ZHAW
13:20	A Stakeholder-based Approach to Integrating LCSA in Building Projects	Sahar Nava, UC London
13:30	Discussion	
13:50	Applied LCSA examples: Case studies	[Thomas Sonderegger]
13:50	LCSA Integration in ORIENTING: Challenges and ways forward	Natalia A. Cano, Ghent University
14:10	LCSA from theory and experimental applications to practice	Heiko Keller, ifeu
14:30	From theory to practice: challenges and recommendations from FineFuture project	Lucia Rigamonti, Polimi
14:50	Discussion	
15:00	Coffee Break	
15:30	Workshops: World-Café	
	Question: Should we integrate across sustainability dimensions? And if yes: How should we integrate between dimensions?	
5 Groups	Moderator: Lucia Rigamonti, Thomas Sonderegger, Giuseppe Cecere, Matthias Stucki, Dimitri Chrissolouris (online)	
16:30	Conclusions and final recommendations of the workshops	5 minutes each group
17:00	Synthesis, Announcements and Farewell	[René Itten]
17:15	End of Forum	

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