



93rd LCA Discussion Forum

Scaling Reliable LCA through Automation: Expectations, Best Practices and Lessons Learned

Tuesday, July 7, 2026, 08:30-12:30 and 13:30-17:15 / CET (UTC+1:00)
ETH Zentrum Campus, GEP Pavillon and online

WLAN access: public-5 or public (individual login with SMS code)

Sponsors
2026

carbotech 
Environmental Projects and Consulting

ecoinvent

 **Empa**

Materials Science and Technology

Co-organisers



Didier Beloin-Saint-Pierre
Senior Scientist
Empa



Max Rehberger
Head of Sustainability Services
TÜV SÜD

Do we need automation in LCA?

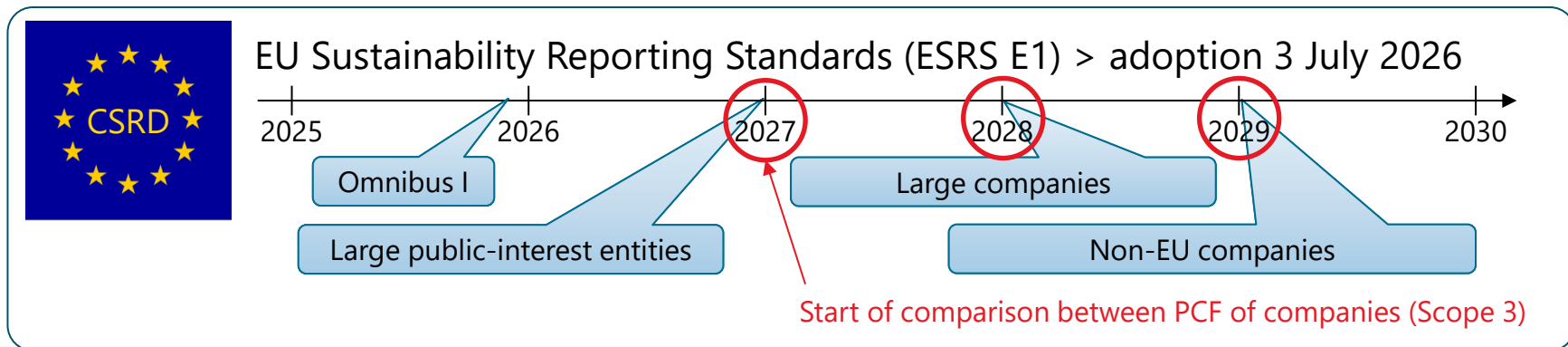
How can we increase automation in LCA?



Regulations, Standards & Schemes



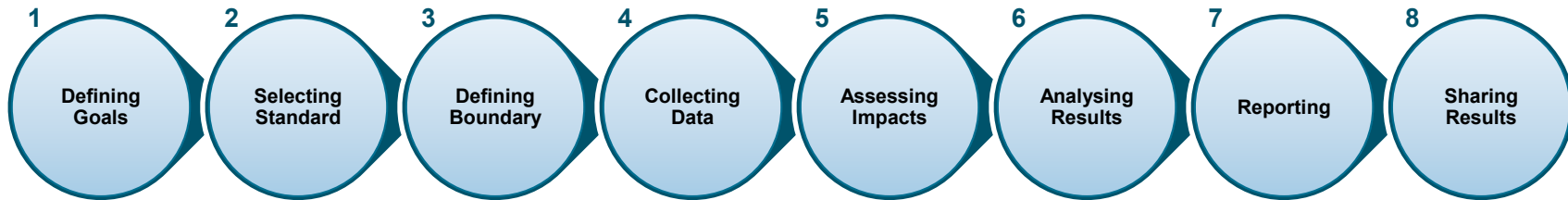
Dealing with complexity and diversity



Limited time for fair and reliable comparisons of products and services



Common Procedure for LCA



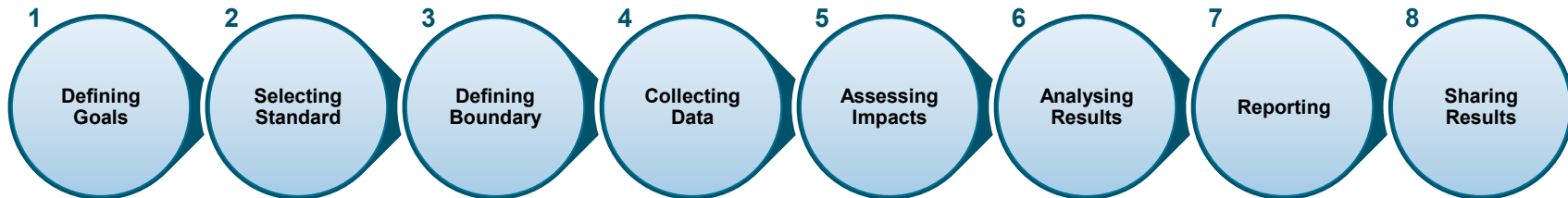
What can we automate and how?



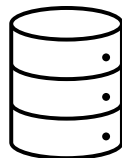
Digital Toolbox



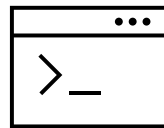
Exponential Growth in the last 5 years



AI & LLMs



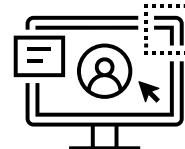
Database



Computation



Software

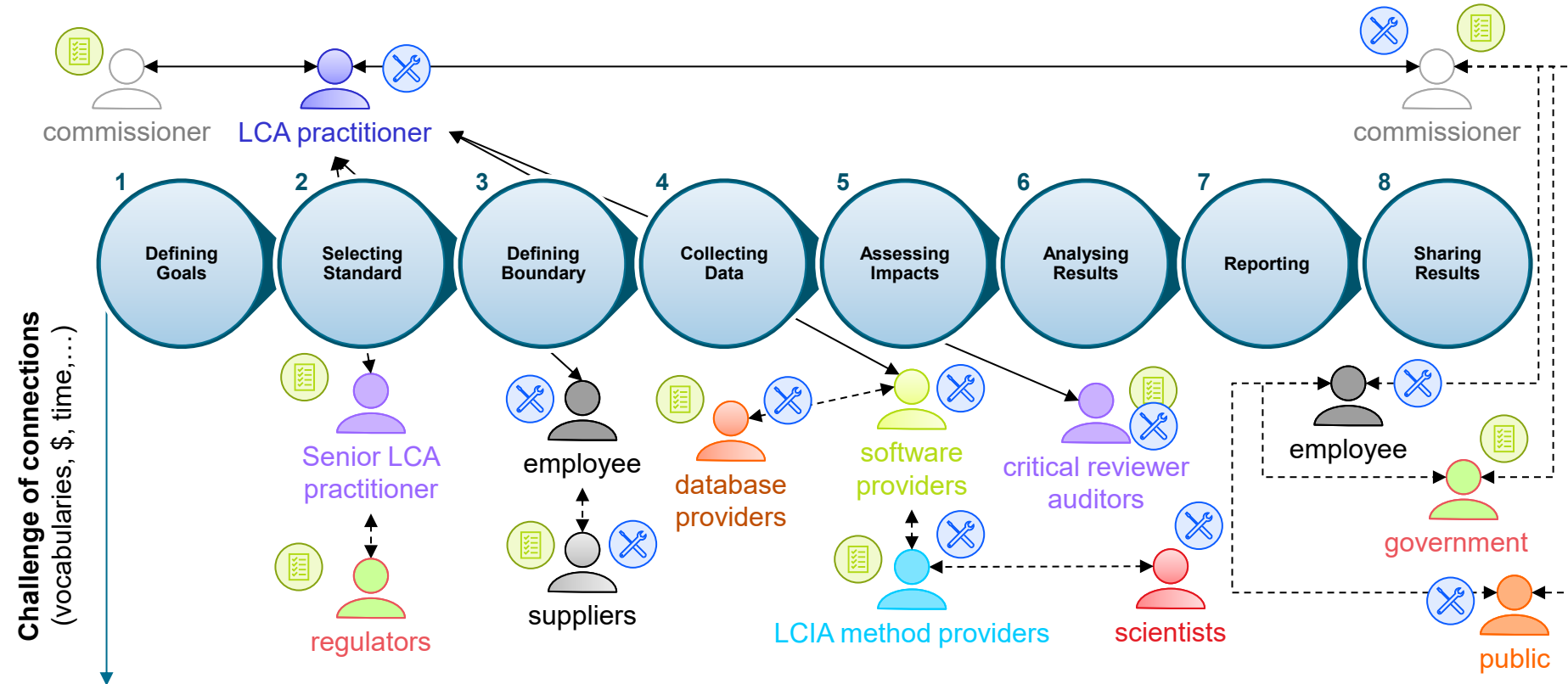


ERP



Dependencies

Stakeholders



Unclear exchanges $\approx$ lack of reliability > high pressure on the LCA practitioners

Dealing with Diversity



Goals
Terminologies
Application Ranges
Cost of Access

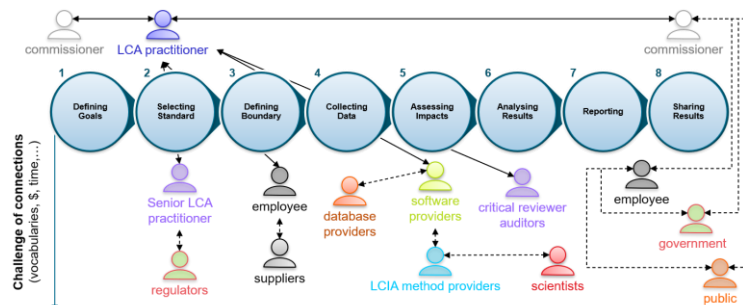


Goals
Data Formats
Content
Cost of Access



Purposes
Vocabularies
Fields of Expertise
Salary

The Cost Challenge



AI & LLMs



Database



Computation



Software



ERP



Do SMEs have the budget to pay for access to all this in 2027?

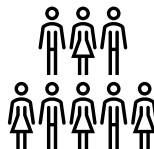
The Importance of Trust



LCA Practitioner



Reliable Bridges
(Interoperability)



Automation with a
digital ecosystem



Sharing Knowledge

Goal of today

Starting the discussion between stakeholders to build a digital ecosystem that supports the automation of reliable LCA

Program

	Understanding the needs and expectations of stakeholders		Didier Beloin-Saint-Pierre
01	09:20	From Pilot to Policy: How France is Scaling LCA-Based Ecolabelling	Vincent Colomb (ADEME)
02	09:40	Transparency at scale: Enabling decarbonization with automated LCAs	Leila Reau (SIKA)
03	10:00	Maturity Assessment for LCA Automation Assessing of an organisation's readiness to automate and scale LCA, including the maturity to leverage AI	Martina Prox (iPoint)
	10:20	Discussion	
	10:30	Coffee break	
	Ways to Build Trust in Automatically Generated LCA Studies <i>Understanding the general procedures</i>		Kathrin Miche
04	11:10	Trust in Automatically Generated LCA Studies	Max Rehberger (TÜV Süd)
05	11:30	Enabling LCA at Scale: The ecoinvent API	Nick Van Berckelaer & Veronika Madzinova (ecoinvent)
06	11:50	Trust in procurement-driven distributed PCF assessments*	Florian Jäger (Siemens)*
	12:10	Discussion	
	12:30	Lunch	

Program

	Short presentations		
	13:30	From Expert Models to Decision-Grade Environmental Data: What Industry Needs from Automated LCA	Bastien Girod (Deloitte)
	13:40	The Sentier Platform: Backbone of a Scalable and Flexible LCA Data Pipeline	Laurenz Bougan (Départ de Sentier)
	13:50	ALCHEMIA: Automating the Bridge Between Process Simulation and Reliable LCA	Lukas Spiekermann (ETH)
	Automation in various sectors – Tools and Transparency <i>Examples of automation procedures and tools</i>		Max Rehberger
07	14:00	Scaling is easy; scaling reliably remains a craft	Eric Miras (Pré/One Click)
08	14:20	<i>Myth and Reality - LCA automation and scalability</i>	Sophie Kieselbach (Makersite)
09	14:40	From automation to integration into all business processes – sustainability is more than a reporting topic	Frauke Burmeister (SAP)
	15:00	Discussion	
	15:15	Coffee break	

Program

	Plenary Discussion: connecting automated tools and stakeholders <i>Identifying the needed collaboration for reliable automation</i>		
15:45	Introduction to Plenary		Didier Beloin-Saint-Pierre (Empa)
16:00	Group discussions on bridging options		All participants
16:45	Feedback/Summary from group discussions		Group representatives
	Conclusion		
17:00	Wrap up and announcements		Didier Beloin-Saint-Pierre (Empa)
17:15	Farewell		