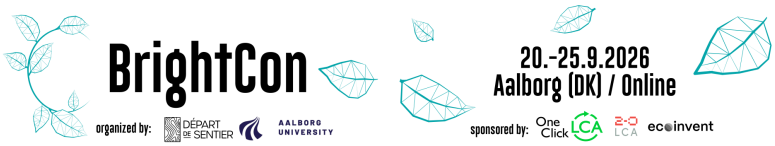
Brightcon 2026, hackathon and courses



Sunday, September 20, 2026 - Friday, September 25, 2026

Aalborg University & Online

Session Tracks

Open Tools and Development

This session track focuses on the latest development of open-source software, packages, and libraries, alongside core methodological advancements. We invite developers and researchers to showcase the tools that underpin modern environmental modeling.

Application and Case Studies

This session track highlights the practical power of combining open-source sustainability assessment tools and data in solving real-world environmental challenges. We invite researchers, practitioners and policy makers to showcase integrated workflows, industrial applications in commercial or policy settings, and academic innovations that bridge the gap between theoretical modeling and reproducible impact.

Open Data

This session track focuses on the lifecycle of data within environmental modeling, covering creation, management, standards, and sharing. We invite contributions that explore how open data can be made more accessible and interoperable, as well as the application of advanced data science techniques, such as machine learning and automated data cleaning, to enhance LCA workflows.

Community Governance, Education and Training

This session track focuses on the "human infrastructure" of our community and ecosystem. We invite contributions regarding the future of open-source LCA, community growth, and sustainable governance models. Discussions will center on how we maintain shared standards, ensure project longevity, and foster an inclusive, collaborative environment across borders and disciplines. It also includes discussions on education, training, and capacity building for new and existing practitioners in the community.

Application of AI in LCA

This session track explores the frontier of artificial intelligence within environmental modeling. It covers the integration of LLMs, autonomous agents, and context engineering to streamline and enhance LCA workflows. Focus areas include the use of AI for automated data mapping, "vibe coding" for rapid prototyping, and the development of intelligent assistants that support complex decision-making in sustainability assessments. We prioritize technical demonstrations that show how these emerging technologies can be applied transparently and reproducibly within the open-source ecosystem.

Collaboration

This session track serves as the bridge between tools, data, and people. It focuses on fostering connections and defining best practices for interdisciplinary integration, such as combining complex

LCA models, and developing open infrastructure based on FAIR data and semantic web principles. Contributions should highlight successful exchanges between academia, industry, consultancy, and policy, emphasizing methods that prevent "reinventing the wheel" and encourage collective advancement within the open-source community.