

A Danish university is looking for European SMEs developing green chemicals, batteries or textiles to join HORIZON-CL4-INDUSTRY-2025-01-MATERIALS-52 project consortium: Uptake of LCA for SSbD chemicals and materials and resulting products (RIA)

Summary

Profile type	Company's country	POD reference
Research & Development Request	Denmark	RDRDK20250526006
Profile status	Type of partnership	Targeted countries
PUBLISHED	Research and development cooperation agreement	• World
Contact Person	Term of validity	Last update
Enrico FRANZIN	26 May 2025 26 May 2026	26 May 2025

General Information

Short summary

A consortium led by a Danish university seeks SMEs working in green chemicals, batteries or textiles to join a Horizon Europe project (HORIZON-CL4-INDUSTRY-2025-01-MATERIALS-52) aimed at significantly improving Life Cycle Assessment (LCA) processes using Generative AI and Digital Twins. The project targets companies frustrated with Sustainable by Design (SSbD) and LCA compliance, offering a low-barrier, intelligent solution for sustainable innovation.

Full description

The AID-LCA project (Artificial Intelligence-Driven Life Cycle Assessment) will develop a novel AI-based platform to transform how LCAs are performed for chemicals, advanced materials and related products. Aligned with the Horizon Europe topic HORIZON-CL4-INDUSTRY-2025-01-MATERIALS-52, the project will combine Generative AI with Digital Twin technologies to automate and streamline LCA tasks—from data gathering and gap-filling to scenario simulation and regulatory alignment.

AID-LCA directly addresses the urgent need for tools that lower the barrier to entry for SMEs aiming to design

products in line with Safe and Sustainable by Design (SSbD) principles. the consortium is actively looking for SMEs involved in green chemicals, batteries or textile innovation who are experiencing challenges with the current SSbD framework and LCA compliance requirements. These industry partners will contribute to use-case validation and help co-create a tool that simplifies and demystifies sustainability reporting.

Advantages and innovations

AI-assisted LCA with reduced manual workload.
Digital Twin simulations for real-time environmental forecasting.
Compliance-ready output tailored to EU standards Sustainable by Design (SSbD), Environmental Product Declaration (EPD), Product Environmental Footprint (PEF).
SME-focused: dramatically reduces time and expertise needed to conduct LCA.

Technical specification or expertise sought

Stage of development

Concept stage

Sustainable Development goals

- **Goal 17: Partnerships to achieve the Goal**
- **Goal 9: Industry, Innovation and Infrastructure**
- **Goal 12: Responsible Consumption and Production**
- **Goal 13: Climate Action**

IPR Status

IPR Notes

Partner Sought

Expected role of the partner

The project consortium is looking for SME partners which:

Operate in the green chemicals, batteries, or textiles sector.
Are involved in product or material innovation.
Have experienced barriers related to the SSbD framework and/or LCA compliance.

Are willing to participate in validating and testing the AID-LCA system through real-world cases.

Type of partnership

Research and development cooperation agreement

Type and size of the partner

- **SME 11-49**
- **SME 50 - 249**
- **SME <=10**

Call Details

Framework program

Horizon Europe

Call title and identifier

HORIZON-CL4-INDUSTRY-2025-01-MATERIALS-52

Submission and evaluation scheme

HORIZON-RIA HORIZON Research and Innovation Actions.

Anticipated project budget

Coordinator required

No

Deadline for EoI

1 Aug 2025

Deadline of the call

23 Sep 2025

Project duration in weeks

Web link to the call

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/to-pic-details/HORIZON-CL4-INDUSTRY-2025-01-MATERIALS-52>

Project title and acronym

Artificial Intelligence-Driven Life Cycle Assessment - AID-LCA

Dissemination

Technology keywords

- **01001002 - Digital Systems, Digital Representation**

Targeted countries

- **World**

Market keywords

- **08005 - Other Industrial Products (not elsewhere classified)**

Sector groups involved