



Environmental data on electronic components: naKnow launches an open database funded under France 2030

PRESS RELEASE, Paris, 24 april 2026 — Manufacturers, designers and regulators in the digital sector lack reliable, comparable environmental data to conduct life cycle assessments (LCA). To close that gap, six organisations are launching naKnow: a collaborative initiative producing documented life cycle inventory (LCI) datasets for foundational electronic components, released as open data. Backed by ADEME's Econum funding call under the France 2030 programme, the project opens its contributions to the broader ecosystem today.

LCA practitioners assessing the environmental footprint of digital equipment depend on inventory data covering the components inside it — manufacturing processes, value chains, modelling assumptions. That data is currently fragmented, poorly representative of how the industry has evolved, inadequately documented, and insufficiently harmonised across actors. As a result, LCA findings on digital technology remain difficult to act upon, undermining their use in industrial decision-making, regulatory processes, innovation strategies and procurement.

naKnow addresses this through a commons-based approach: open data production, transparent documentation of assumptions and uncertainties, and formats compatible with European reference databases. The initiative is governance-neutral and tool-agnostic. It operates under the oversight of public authorities and is currently establishing a non-profit association to ensure its long-term continuity.

Initial work covers five component families: silicon wafers and derived components (CPU, GPU, RAM), printed circuit boards (PCB), displays, optical components, and hard disk drives (HDD). For each category, **naKnow** produces LCI data drawn from scientific literature reviews, industrial process modelling and laboratory analysis.

Laboratories, industry players and international institutions are invited to contribute — through governance co-construction, sharing of critical datasets, participation in collaborative research projects, broad valorisation of the commons, and long-term co-stewardship via membership and pro bono expertise.



*" There is currently no shared reference that the industry as a whole can rely on to assess and compare the environmental impact of electronic components. That is precisely what **naKnow** is building — with one non-negotiable requirement: that every dataset published is traceable, revisable and freely reusable."*

Arthur Removille, Ecosystem Lead, naKnow / Resilio

Key facts

- Contributing to the production, dissemination and long-term sustainability of environmental data for the eco-design of digital products and services
- Five component families covered at launch:
 - wafers (CPU, GPU, RAM, SSD), PCB, displays, optical sensors, HDD
- Knowledge base and state-of-the-art reviews accessible online
- Dynamic, robust and customisable LCI datasets published as open data
- Formats compatible with leading LCA databases and tools
- European association and international expert community
- Supported by the Econum funding call under France 2030
- European co-funding targeted from 2027

About naKnow

naKnow is an international collaborative initiative producing open environmental data on key electronic components for the eco-design of digital products and services.

Supported by the Econum call for projects (France 2030), it brings together six partners under the oversight of public authorities including ADEME:

- EVEA — evea-conseil.com
- Hubblo — hubblo.org
- Resilio — resilio-solutions.com
- Tide — Etienne Lees-Perasso
- Terra Nova Development (TND) — tndmetal.net
- WeLOOP — weloop.org

Designed as a long-term scientific commons, all contributions are freely accessible at naknow.eco

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