

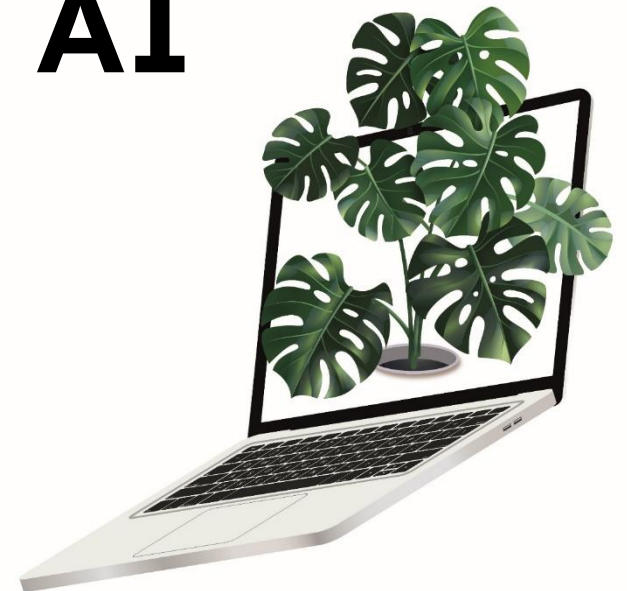


Sept 2026

Assessing the Environmental Impacts of Generative AI



resilio-solutions.com – contact@resilio-solutions.com



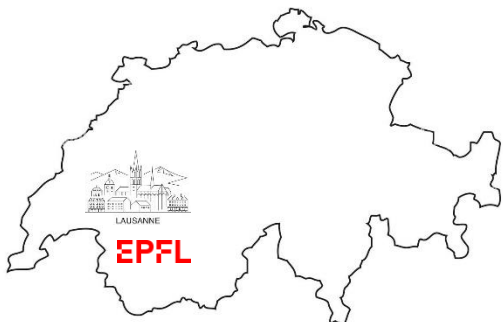
Our journey

Incubated at **EPFL**, Resilio has managed to become the worldwide leader in **SustainableIT** in 4 years, working with over 200 clients globally.

Our vision: Contribute to a more resilient future

Our mission: Embed sustainability at the heart of decision-making.

2022
First Swiss clients
5 employees



2024
150 projects
15 employees

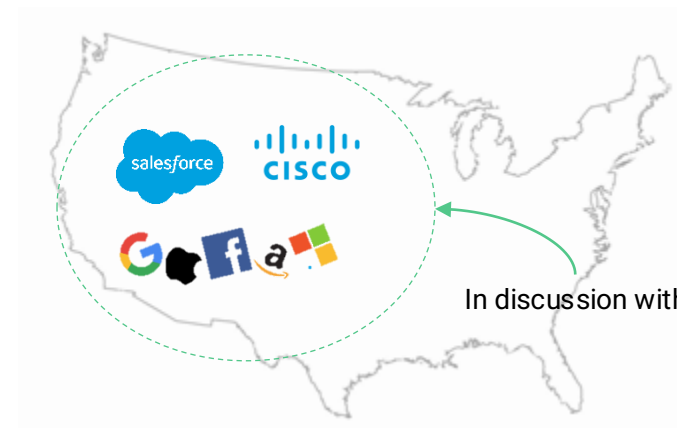
Our Top 2025 clients



Our Top 2025 Partnership

ecoinvent

2026
400 projects
35 employees



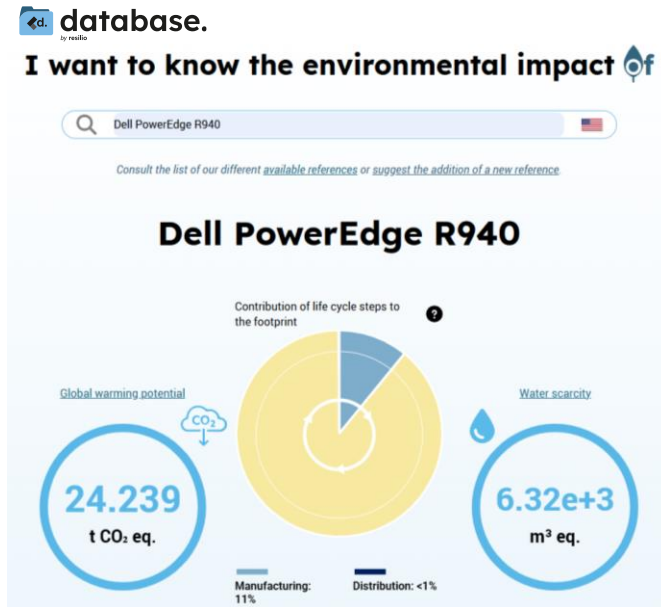
In discussion with

Some of our clients



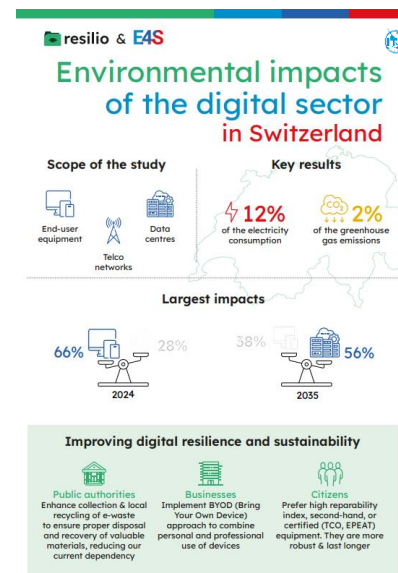
Some examples of our work

Largest environmental database for the ICT sector (db.resilio.tech)



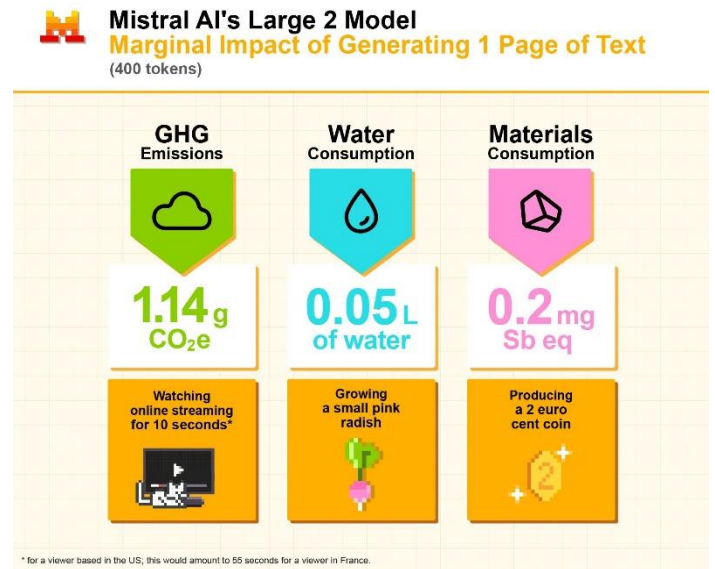
50 public models
+ 10 000 references

First study on the environmental footprint of the IT in Switzerland



Published in September 2025

Co-author of Mistral's study on the impact of AI



Published in July 2025

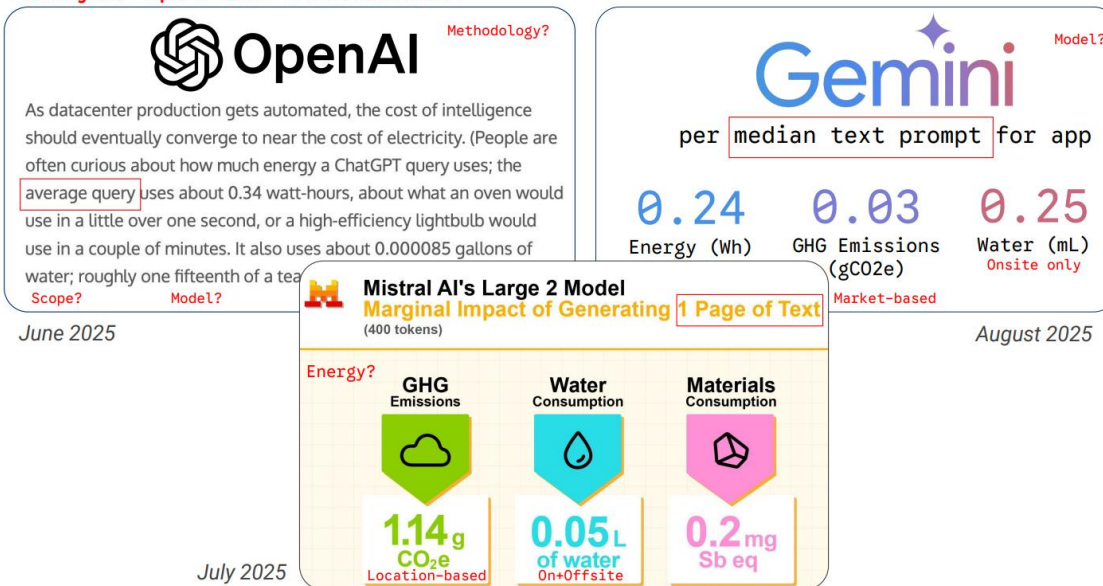


The environmental impact of AI

Why are we working on AI?

Today, we still lack clear visibility into the energy consumption, carbon emissions, and water use of AI models. This **lack of transparency** across the ICT supply chain creates challenges for businesses, exposing them to future supply chain and economic risks.

Can you Spot the Difference?



<https://www.linkedin.com/in/bgamazay/recent-activity/all/>

While organizations need transparency ...

Large enterprises are reviewing their **net zero targets** as AI adoption accelerates, but are somehow lost as they lack the information needed to quantify the footprint of AI.

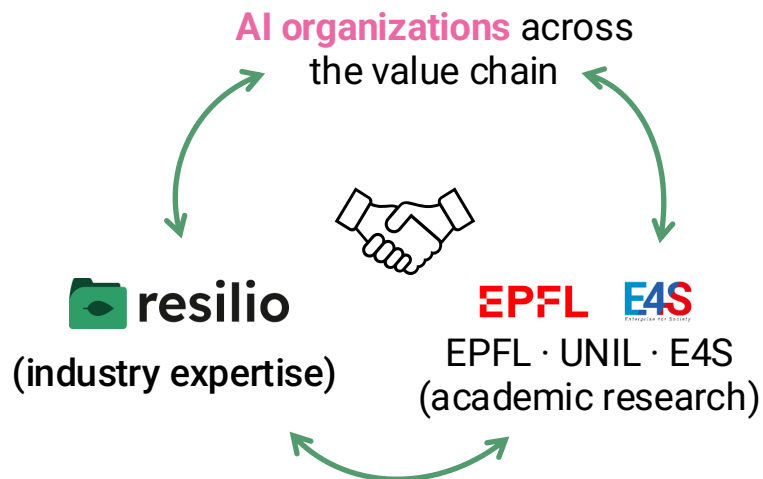
Existing tools are insufficient

Current initiatives, such as the AI Energy Score, have seen **limited adoption** by CTOs and CSOs because they may not fully reflect real-world enterprise use cases or offer sufficient transparency for business decision-making.



Project overview

Who is involved



What is the project

Develop life cycle assessment (LCA) for LLMs to build **transparent** impact measurement for the **AI ecosystem**

What will be delivered

- Robust LCA-based model for LLMs' footprint
- Actionable pathways to improve sustainable AI
- Collective progress across the AI value chain

Why now

- ➡ AI is scaling while sustainability must follow.
- ➡ We would like to engage you to foster a sustainable AI ecosystem.

Research team



- You Li - Lead researcher, EPFL/UNIL/IMD joint Master's thesis project
- Louise Aubet - Head of R&D
- Constant Riolo - Partner



Our objective

Ensure **Transparency**

Make AI environmental impacts visible and quantifiable.

- Translate AI usage into measurable environmental indicators
- Reduce the “black box” effect of AI infrastructure

Enable collective **Benchmarking**

Create shared standards across the AI community.

- Establish common impact metrics
- Provide a comprehensive view across the AI value chain

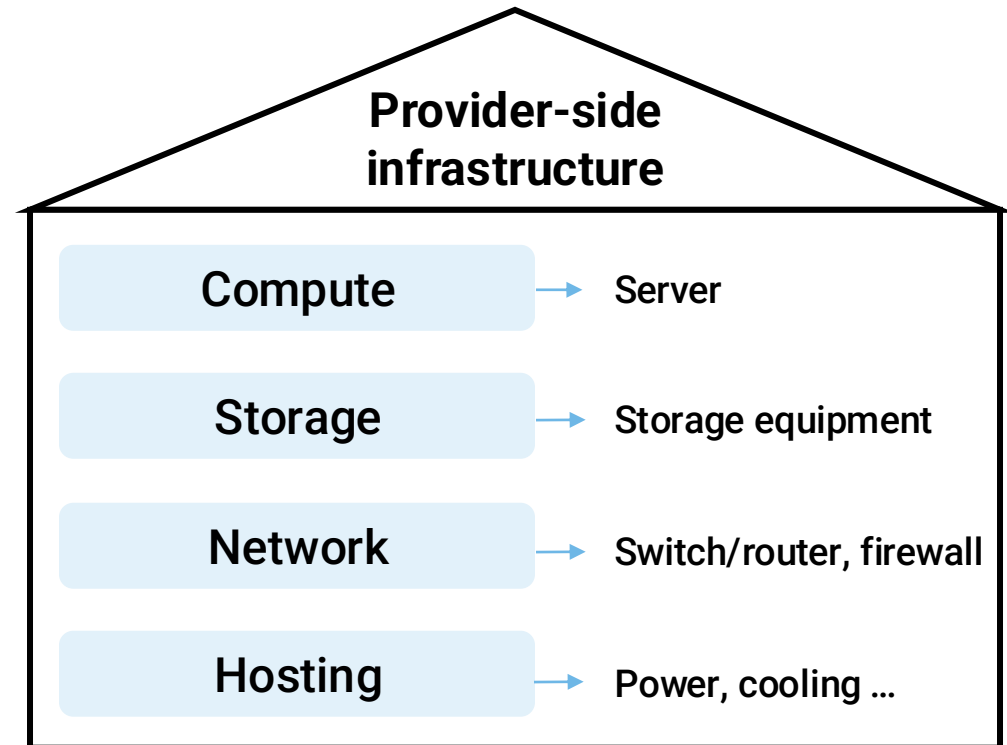
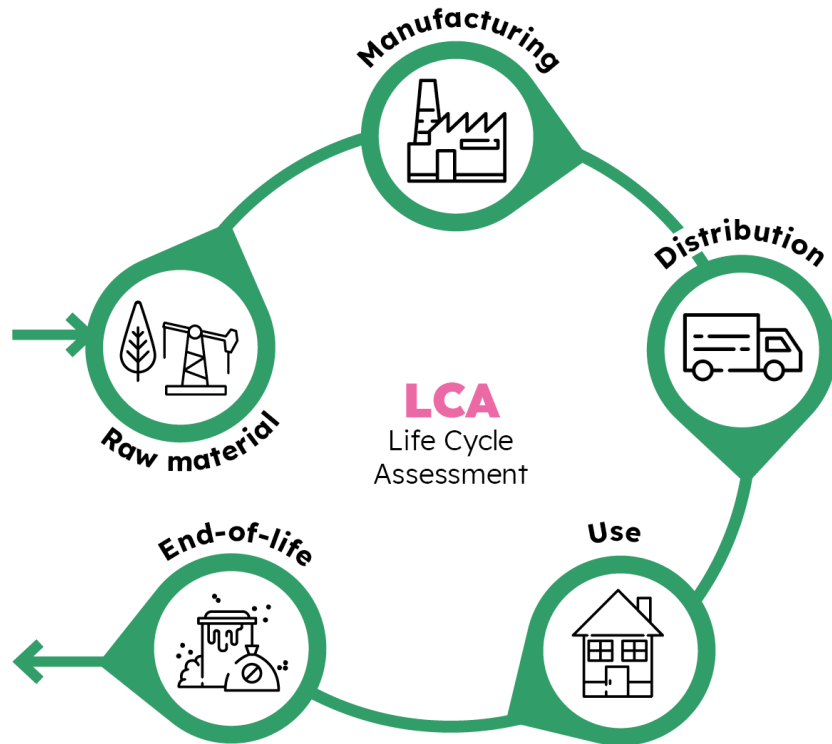
Empower **Informed Decisions**

Turn environmental insights into governance capability.

- Enable trade-off analysis between performance and impact
- Identify targeted levers to reduce AI model impacts

Methodology

Build a **transparent** AI footprint from provider infrastructure data, not black-box estimates.

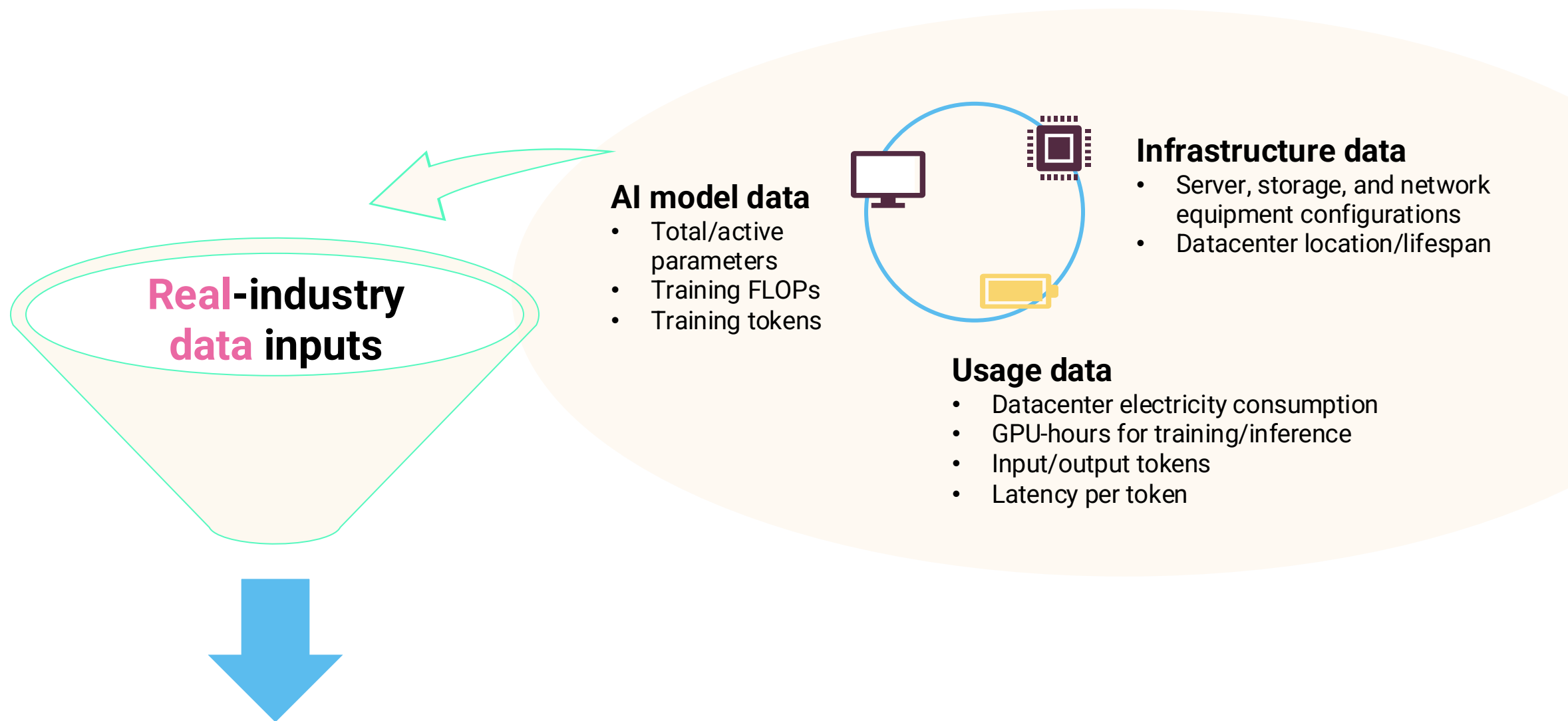


Primary data

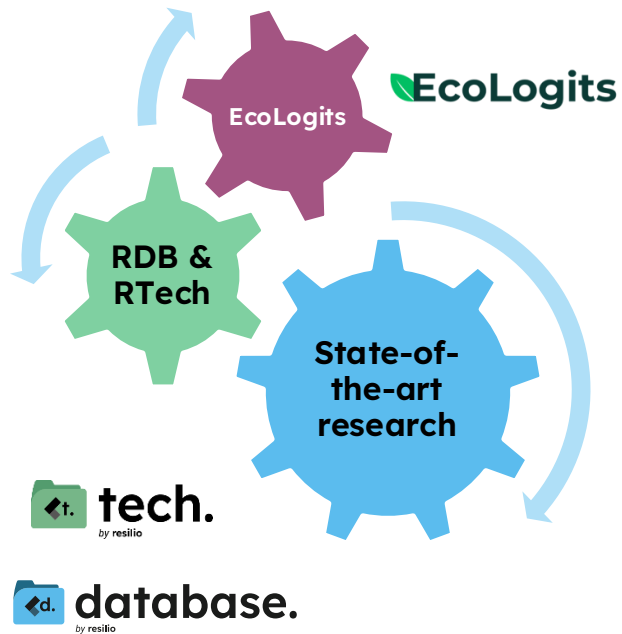
Infrastructure LCAs

Aggregated footprint

Our approach



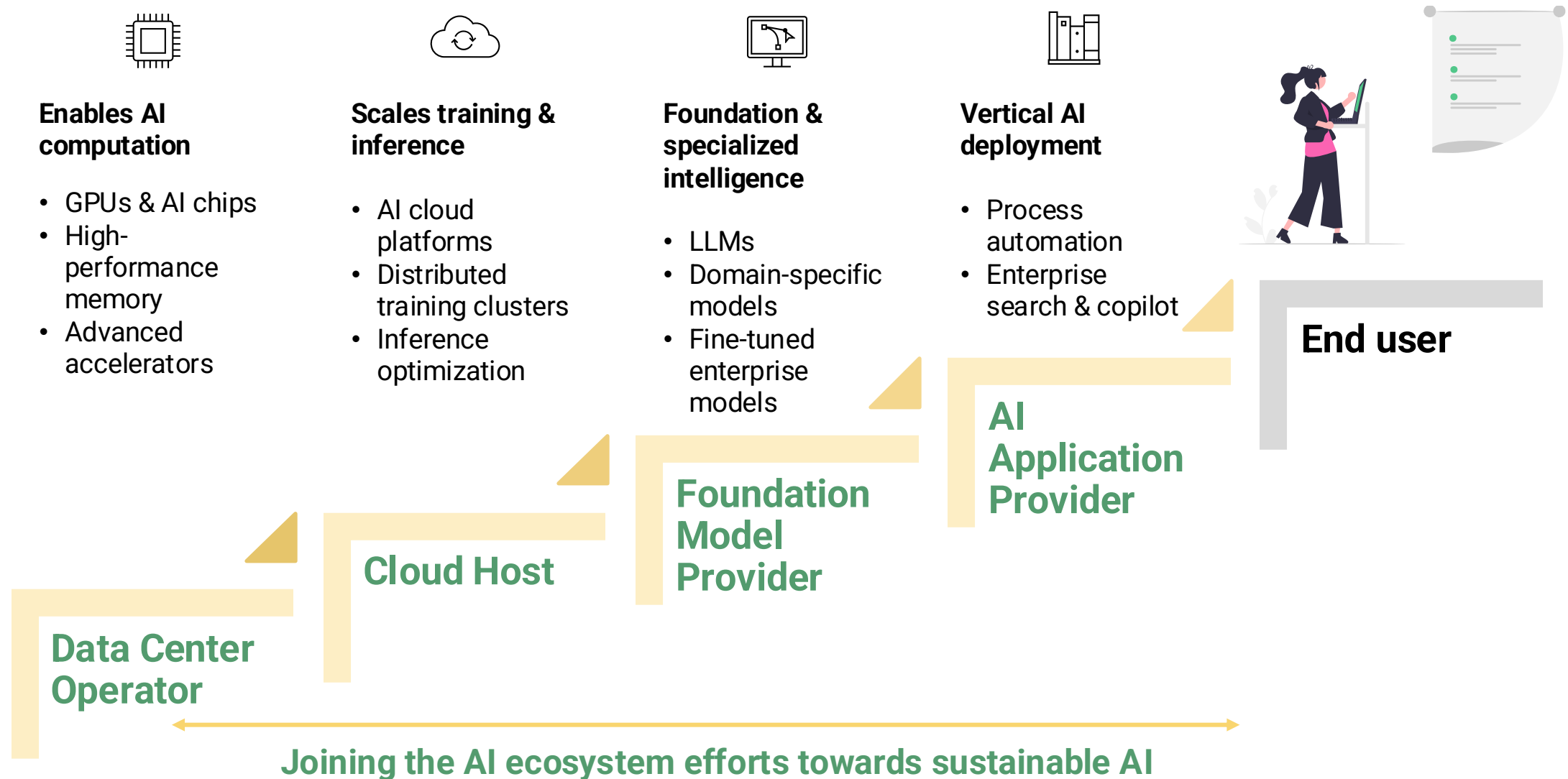
Our approach



- Strengthen & **extend existing** open-source tools ([EcoLogits](#), etc.) to foster the broader ecosystem and leverage prior work.
- Leverage **Resilio Database** and **Resilio Tech**
 - Use verified impact factors for different ICT components
 - Guided by the expert LCA framework from the Resilio Lab
- Incorporate **state-of-the-art research**



Engaging providers across the whole AI market

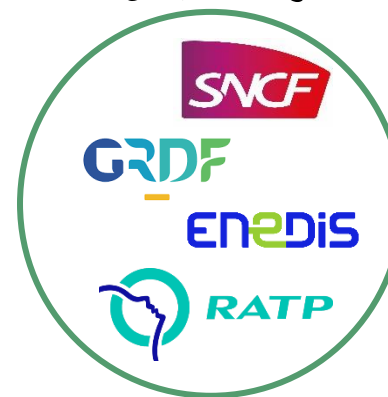


Advancing sustainable AI together

AI community powered by  resilio



Corporates



Academic



Global Partners²



Public Sectors



Note: (1) Confirmed companies: Meta, Exoscale, Swisscom, Infomaniak, Linagora, Scaleway, CGI, Apertus, SNCF, GRDF, ENEDIS, RATP. (2) Other companies shown are currently in discussion with Resilio and not yet confirmed participants.

Road to Geneva

THE RESEARCH AI PROJECT

Q1 2026

-  **Project kick-off**
-  **First partner onboarded**



First results

Initial data and validation results



Publications

Joint Statement of Demand and first findings

Q1 2027



Additional results

Extended analysis and pre-release to partners

AI SUMMIT GENEVA 2027



Public release



MAR 2026



JUL 2026



NOV 2026



JAN 2027



MAY 2027

ROAD TO GENEVA

MARKET OVERVIEW MAR – JUL 2026

 **Road to AI Summit London**
JUNE 2026
Event with the Swiss Embassy 

POLICY AND CUSTOMER DEMAND JUL – NOV 2026

 **Trust Valley Days · EPFL**
SEPT 2026

 **Munich Climate Week**
 with SustainableIT.org
OCT 2026
Event with the Swiss Embassy 

 **Road to AI Summit Paris**
NOV 2026
Event with the Swiss Embassy 

 **COP 31**
NOV 2026 *(to be announced)*

SUPPLIER'S RESPONSE NOV 2026 – MAY 2027

 **World Economic Forum**
JAN 2027 *(to be announced)*

 **Zurich Climate Week**
MAY 2027 *(to be announced)*

RESULTS JUNE 2027

 **AI Summit Geneva · release**
JUNE 2027





First results - Demo

Demo

1

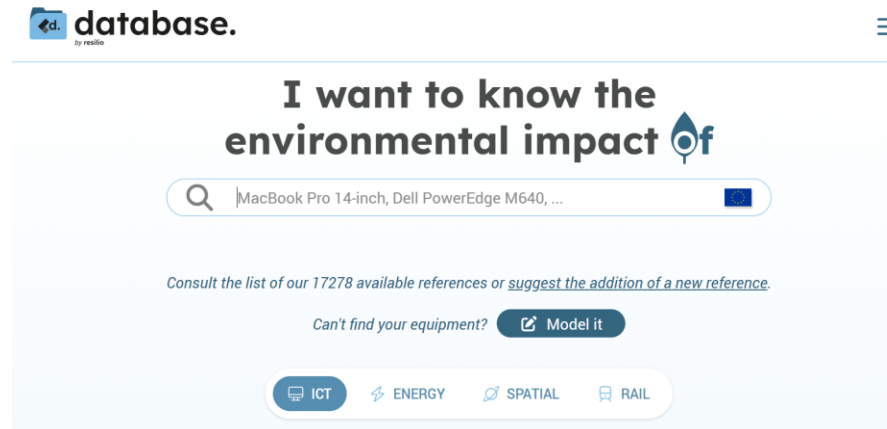
Login in **ResilioDB**: <https://db.resilio.tech/>

2

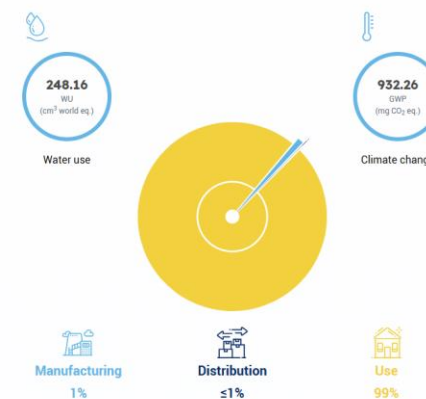
Search for a model, such as **GPT-5.4**

3

Find the footprint of a prompt



Contribution of life cycle steps to the footprint



Detailed impact





Next steps

Call for Action

Joint Statement of AI Adopters on Environmental Transparency

'ROAD TO GENEVA' TRACK

Joint Statement of AI Adopters on Environmental Transparency

*Addressed to model developers, cloud operators and hardware
manufacturers, towards the Geneva AI Summit, 21–22 June 2027*

I. PREAMBLE

The signatories are organisations that deploy artificial intelligence in their operations. We act here as adopters, situated downstream in a value chain whose environmental effects we report but do not directly control. We address this statement to model developers, cloud operators and hardware manufacturers, in a spirit of partnership. Significant efforts have been made on efficiency and energy sourcing, and we acknowledge them. Our concern is not with intent, but with the absence of a common basis for measurement.

Come sign the
Joint Statement of Demand

Joint Statement of AI Adopters on Environmental Transparency

III. REQUESTS

The signatories respectfully invite providers to work towards:

- (i) *Environmental data reflecting actual usage, made available through existing commercial channels;*
- (ii) *Convergence on a common methodology, and on units better suited to environmental decision-making than tokens alone;*
- (iii) *Data suitable for regulatory reporting and independent assurance, with commercial confidentiality preserved.*

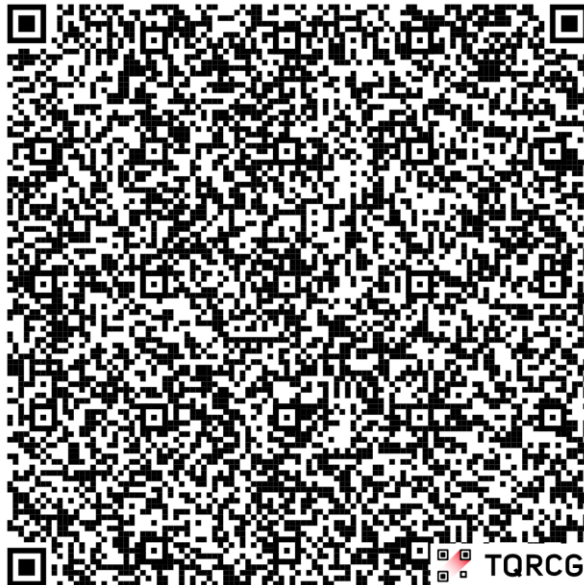
Contact:

you.li@resilio.tech

contact@resilio.tech

Call for Action

Joint Statement of AI Adopters on Environmental Transparency



Email us

The signatories respect their operations and the environment. We address this statement to model developers, cloud operators and hardware manufacturers, in a spirit of partnership. Significant efforts have been made on efficiency and energy sourcing, and we acknowledge them. Our concern is not with intent, but with the absence of a common basis for measurement.

Come sign the
Joint Statement of Demand



Project website

The signatories respect

- (i) Environmental data for commercial chains
- (ii) Convergence on environmental data
- (iii) Data suitable for commercial chains

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suited to
ce, with

Contact:

you.li@resilio.tech

contact@resilio.tech