

An ecosystem mapping, developed by Luxinnovation's Market Intelligence department, is based on the establishment of a consolidated database including public and private entities (organisations, companies, etc.) in Luxembourg that have similar profiles. This means that they belong to the same ecosystem or sector, target the same market, or use the same technology, for example.

WHAT IS COVERED BY THE AI ECOSYSTEM MAPPING?

The scope of the Luxembourg AI mapping was defined according to the "Call for the selection of Hosting Entities for acquiring or upgrading EuroHPC systems with AI capabilities and establishment of associated AI Factories" ([Source](#)).

The text of the call for expressions of interest defined the following key stakeholders:

1. **AI technology providers:** As the first level in the AI value chain, these companies create foundational AI models, algorithms and systems.
2. **AI solution developers:** Startups or established companies using existing AI technologies to develop, customise and deploy AI-driven applications, tools and services to businesses and industries.
3. **Potential data providers:** Holders of raw or processed data that could be used to train or improve AI algorithms.
4. **Innovative AI users:** Public and private organisations using, or planning to use, supercomputing capacities for AI projects, or that have received or applied for national and/or European funding for conducting AI-related R&D or innovation projects.
5. **AI support communities:** Consultancy companies as well as academic and research organisations that enable the use of AI technologies and support their adoption by end users.
6. **Private investors and incubators:** Organisations and funds that can provide capital, resources, mentorship and support to AI startups, tech companies and various AI projects.

HOW WAS THE AI ECOSYSTEM MAPPING DONE?

The Luxembourg AI mapping is based on an approach that maintains flexibility in data processing and facilitates data updating. The mapping methodology follows four main steps:

Step 1: Scope definition

The scope of the AI ecosystem mapping was defined based on the requirements of the AI Factories call and aligned with the needs and objectives of the Luxembourg AI Factory project.

Our objective was therefore to cover all known Luxembourg entities positioned along the artificial intelligence value chain.

Step 2: Identification and selection of relevant sources

In order to identify potentially relevant entities to be mapped as part of the current AI ecosystem in Luxembourg, the following sources were used (aggregated):

- Luxinnovation knowledge about Luxembourg companies
- Luxembourg AI Factory partners
- Associations and federations
- Corporate databases
- Company websites
- Open Data Portal

Each type of source was questioned to obtain results related to the scope of the mapping (i.e. entities that have a link with AI technologies).

This enabled us to build a raw database of entities potentially relevant to the mapping.

Step 3: Selection and classification of relevant entities

This step consisted in validating whether each identified organisation (public entity or private company) should be part of the mapping or not, as well as of enriching the information about the selected entities. It was carried out jointly by market intelligence analysts and sector experts.

To select and classify each company listed in the AI ecosystem in Luxembourg, additional information was collected on their business and activities related to AI technologies.

Step 4: Design of a decision support tool

This final step was aimed at exploiting the database that had been set up to support the decision-making process of policymakers and other stakeholders of the ecosystem. The following tools are provided:

- An [interactive dashboard](#) displaying the key figures of the AI ecosystem in Luxembourg in a synthetic and dynamic way.
- A monitoring tool offering access to the entire dataset to analyse and monitor the AI ecosystem. The access to the monitoring tool is restricted to selected stakeholders.
- A "[Facts & Figures](#)" report providing an in-depth analysis of the data in order to better characterise and understand the AI ecosystem.

Your feedback

For any request regarding this mapping, please feel free to contact us at:

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