



An ITEA Smart Health project

AIDESL



Fully Automated AI Data Extraction from Scientific Literature

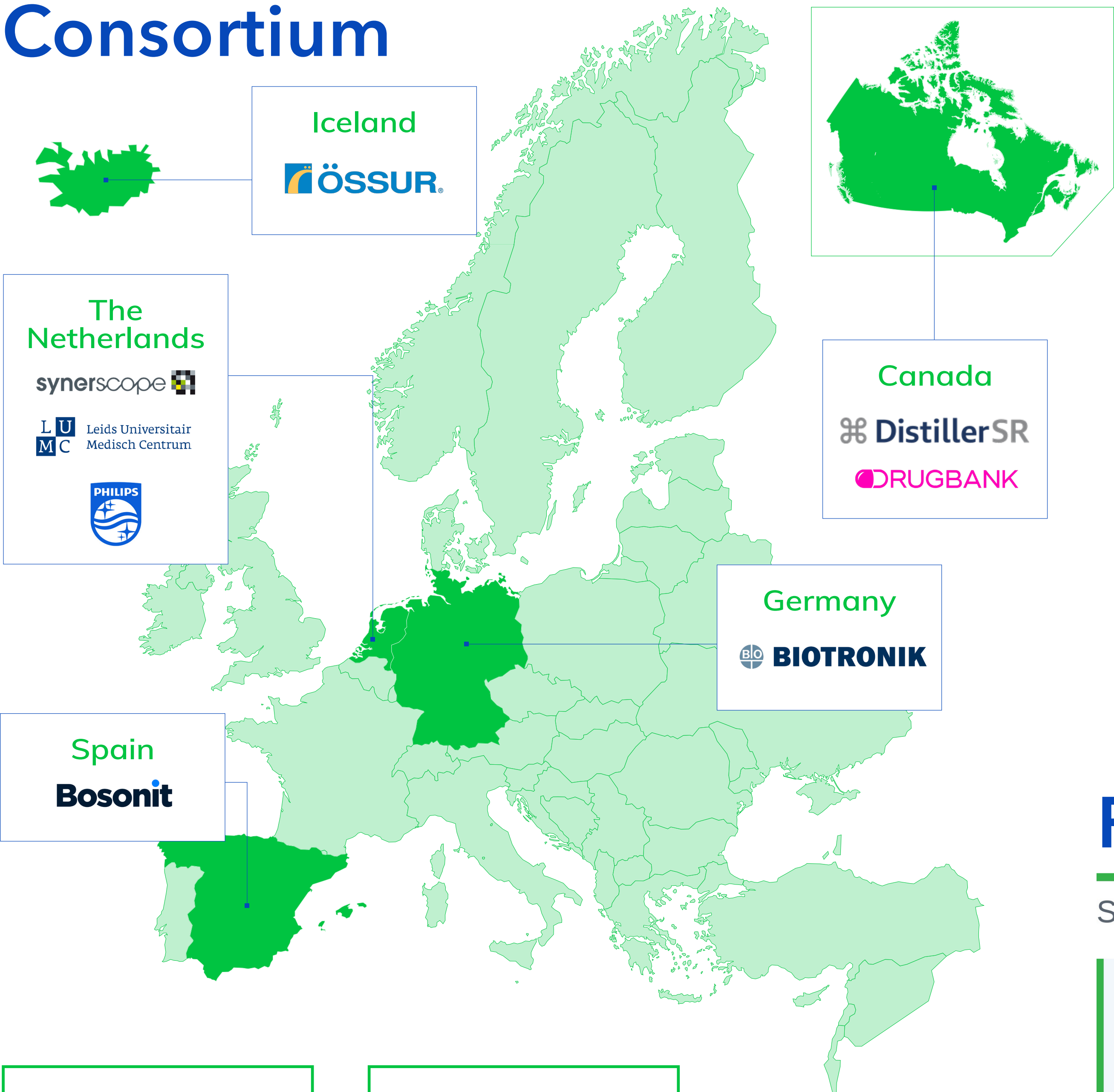
Project summary

Speed up systematic literature reviews (SLRs) while improving their accuracy, the ITEA project AIDESL is currently leveraging AI to automate data extraction from scientific literature, particularly in the healthcare domain. The project’s goal is to establish standards for AI in research while speeding the accessibility of data to improve the equitable development of new health innovation and knowledge.

Project duration

October 2025 - December 2027

Consortium



LEAFLET



WEBSITE

itea4.org/project/aidesl.html

Use case / Expected key results

- > Literature Review Data Extractor: Clinical, safety and performance evidence in regulatory submissions and drug dossiers across global markets
- > Safety Profile Extractor: Post-market surveillance, pharmacovigilance, PSUR and vigilance teams
- > Complex Data Extraction (Figures and Tables): Regulatory and HEOR submissions
- > RWE/HEOR Evidence Packager: Market access and reimbursement submissions across pharmaceutical drugs and devices

First validated results

Smart Evidence Extraction tested by consortium partners on live device literature

90.1% extraction accuracy average across 312 prompts, before any prompt optimisation Philips	3–5 weeks faster per literature review, against the manual baseline BIOTRONIK	7–25% higher data quality measured against the human gold standard BIOTRONIK
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Human-in-the-loop throughout.
Every AI-extracted value is source-linked and verified by a reviewer before it is used.

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