

A Joint AI Call 2021 project



AI FORSchung

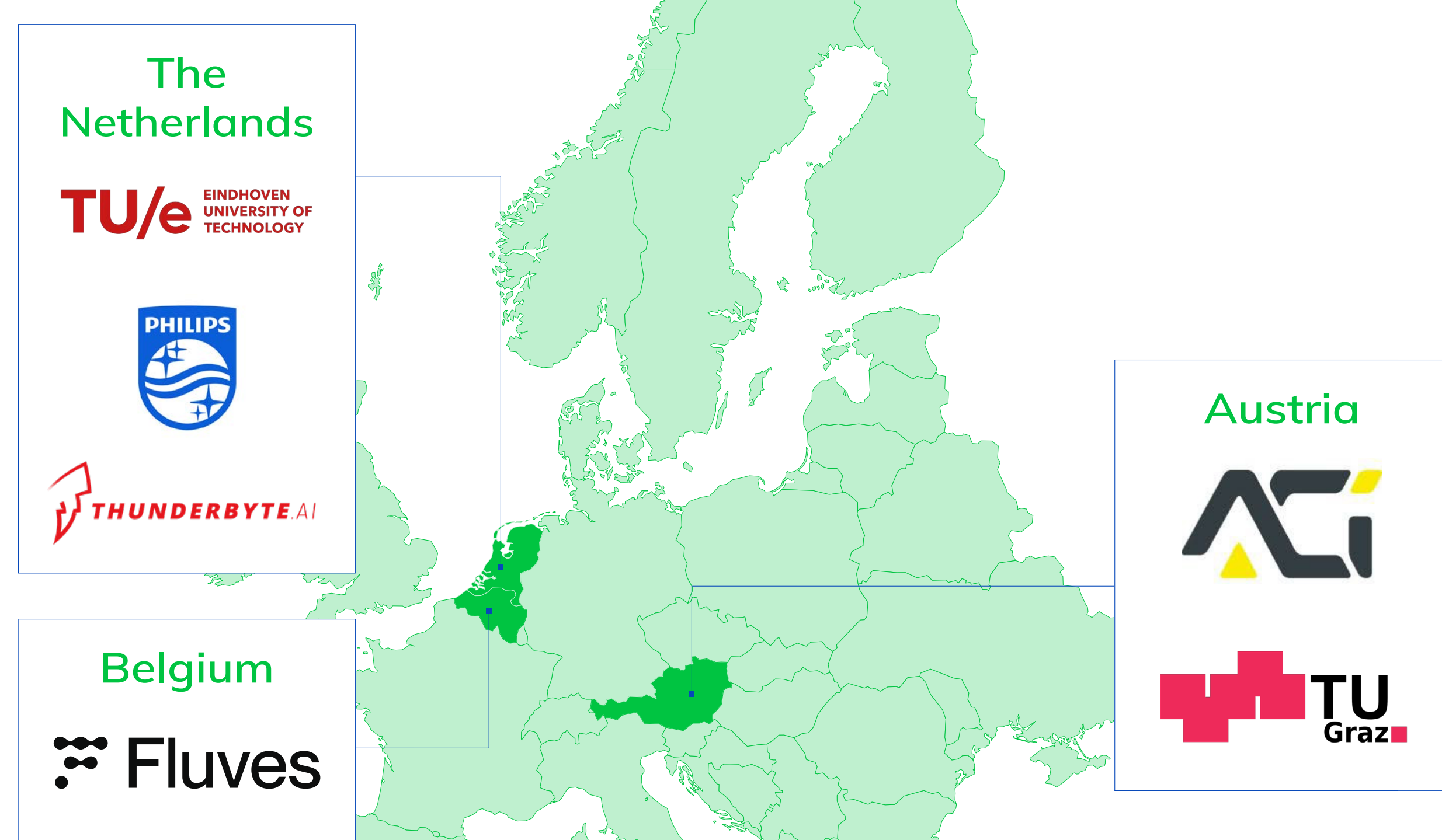


Improving fibre-optic sensing with artificial intelligence

Project summary

Imagine a technology with ground-breaking applications in healthcare, construction, and utilities sectors. It assists surgeons navigate catheters in the body through tortuous vessels to treat aneurysms. It enables detection of leakages in water pipelines buried under the ground. It provides measurements to monitor the health of tunnels and bridges. Fiber-optic sensing (FOS) is that technology. In AI FORSchung, we bring together expertise and data from such applications, develop AI-enhanced, large-scale signal and data analysis methods to advance the adoption of FOS across the spectrum of applications and open new fields through cost-effective and easy-to-use products.

Consortium



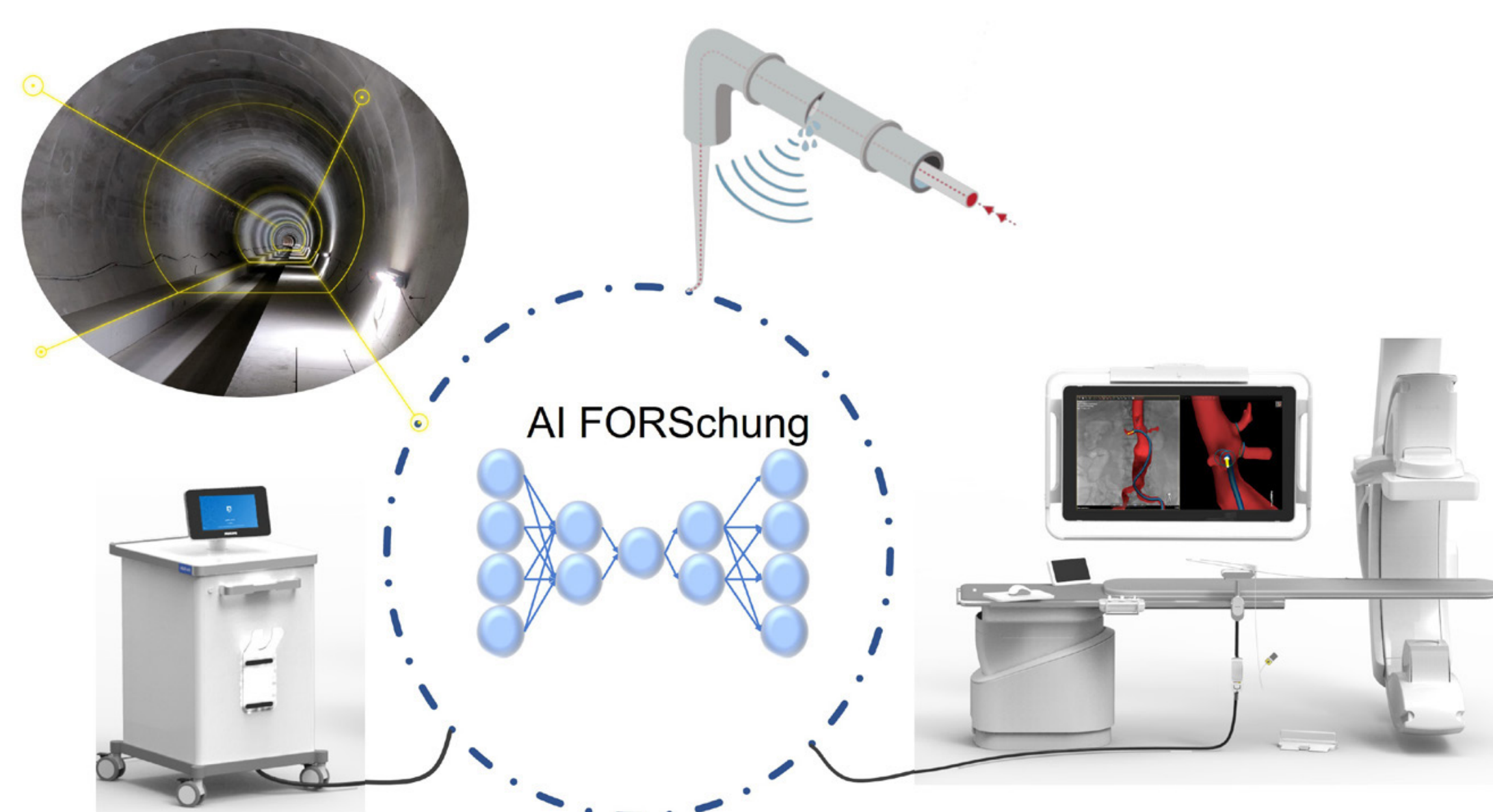
Project duration

September 2022 – August 2025

Expected key results / Unique advantages

- A unified, scalable framework enabling future FOS applications
- Intelligent FOS data compression
- Robust & fast anomaly detection for life-critical alerts

AI FORSchung focus areas



Project webpage



<https://itea4.org/project/ai-forschung.html>



Contact

Ahmet Ekin
Philips - The Netherlands
E: ahmet.ekin@philips.com

This ITEA project is supported by:



Rijksdienst voor Ondernemend Nederland

