

A Joint AI Call 2021 project



# AI FORSchung

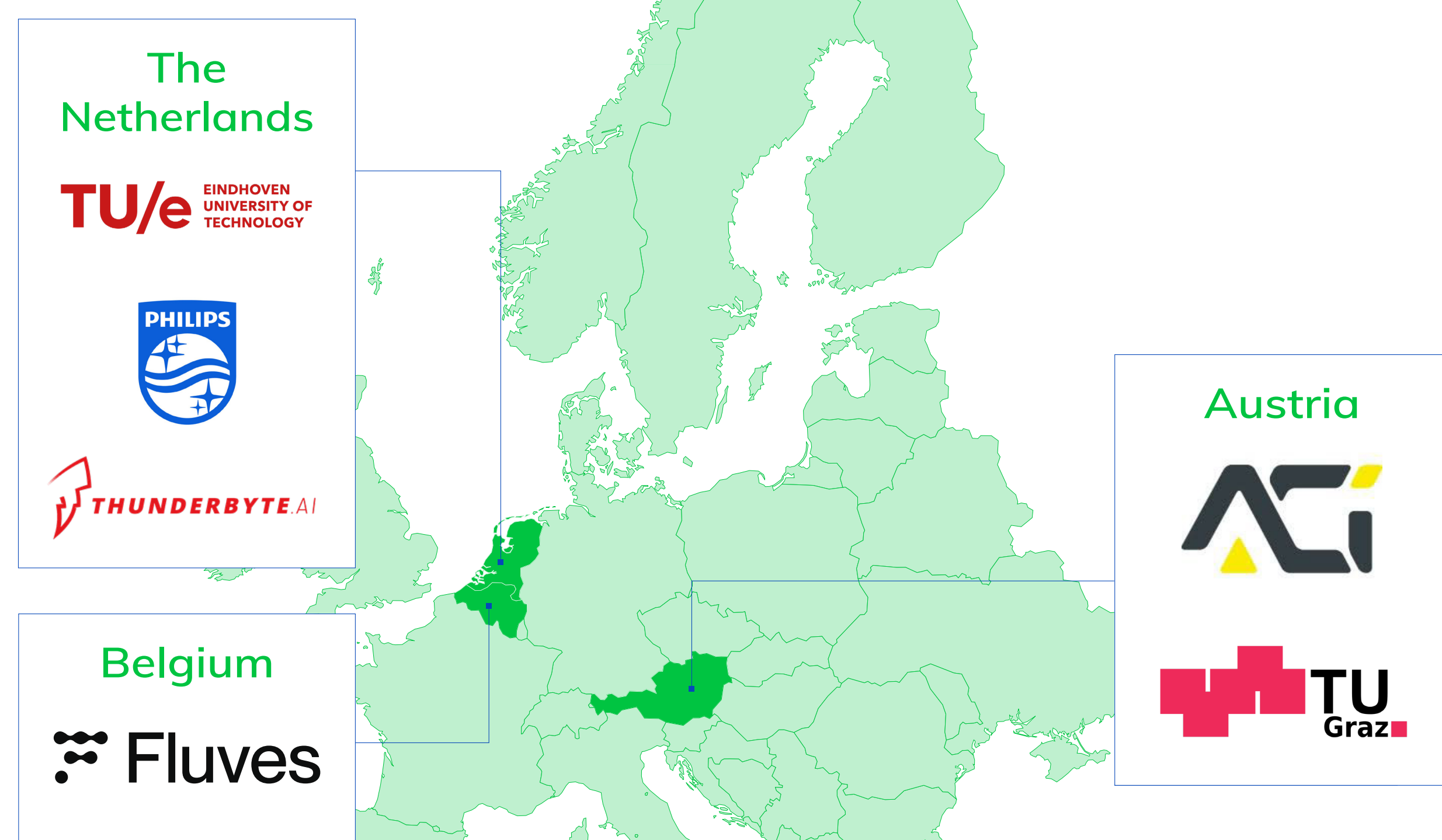


Improving fibre-optic sensing with artificial intelligence

## 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



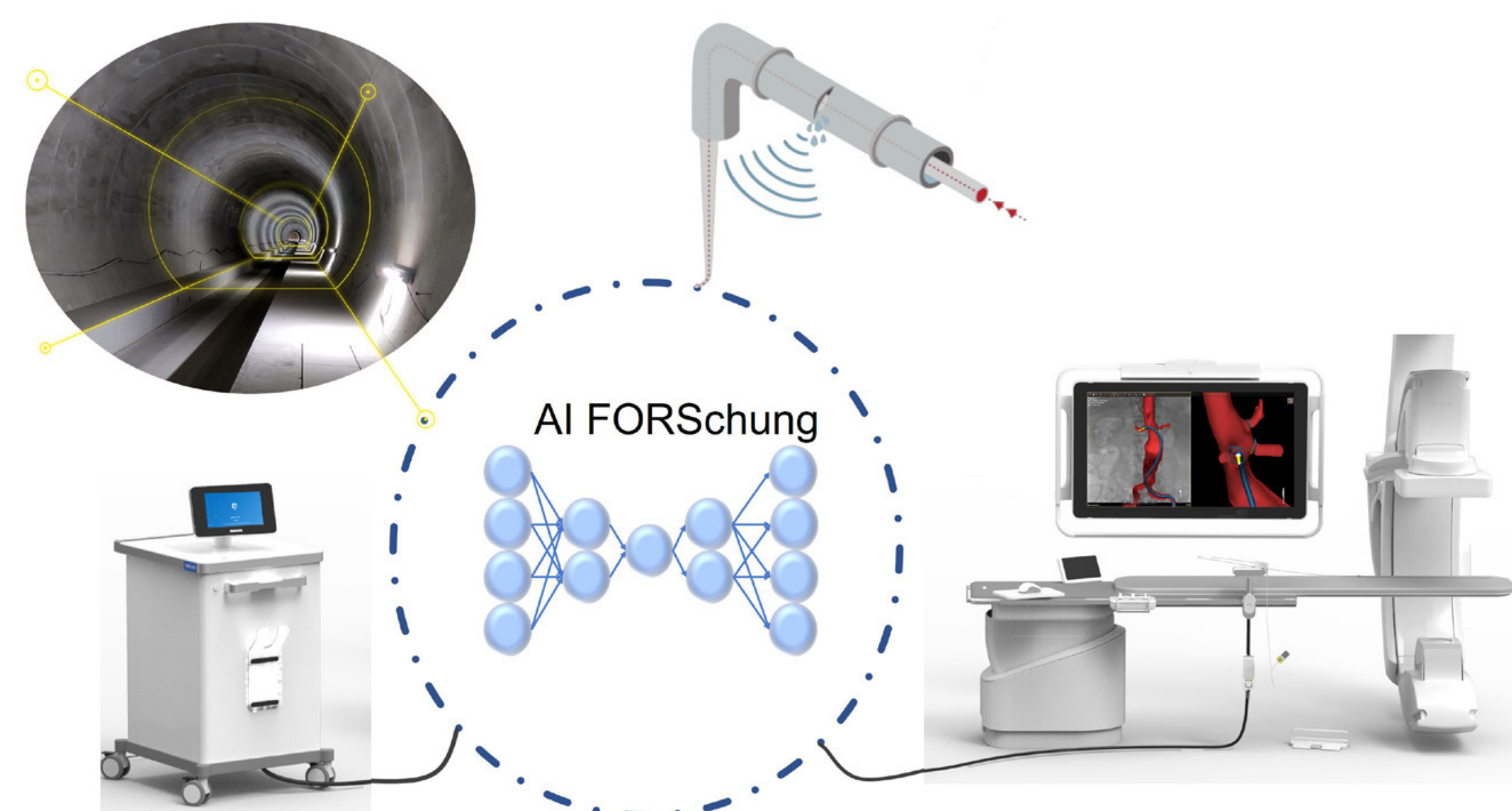
## Project duration

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>



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