Budget:
€3.9 Million

Duration:
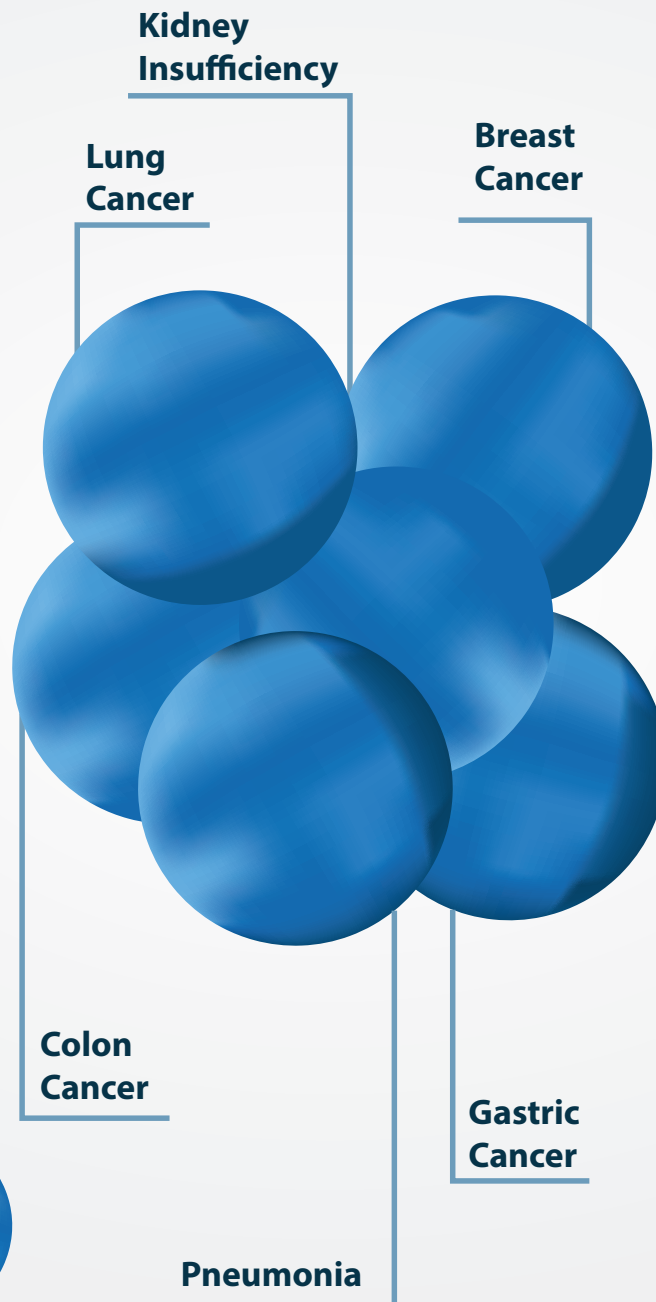42 Months

Consortium:
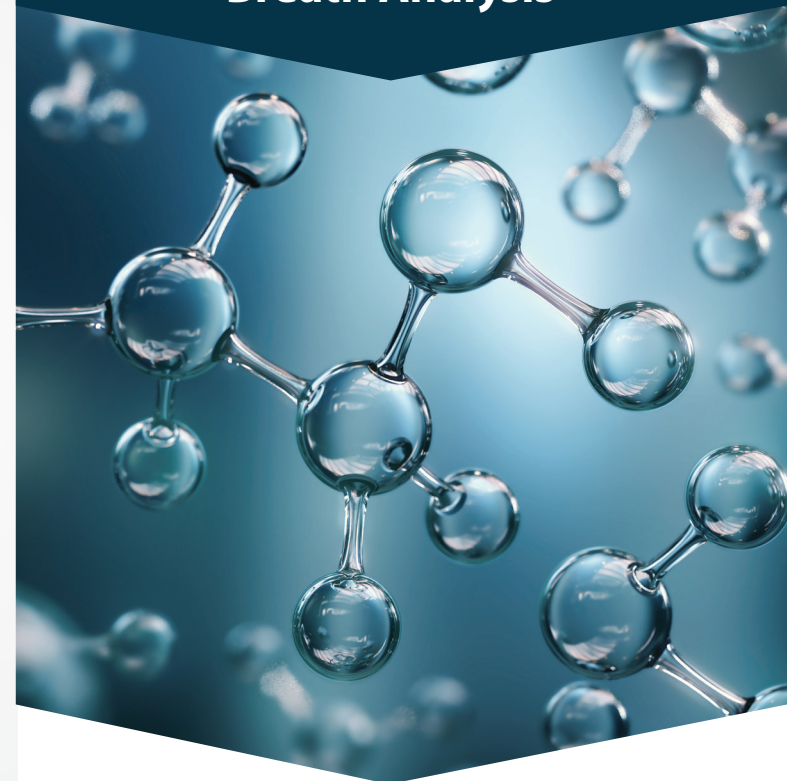12 Partners

Partner map

France

Belgium

Germany

Estonia

Greece

Switzerland

Lithuania
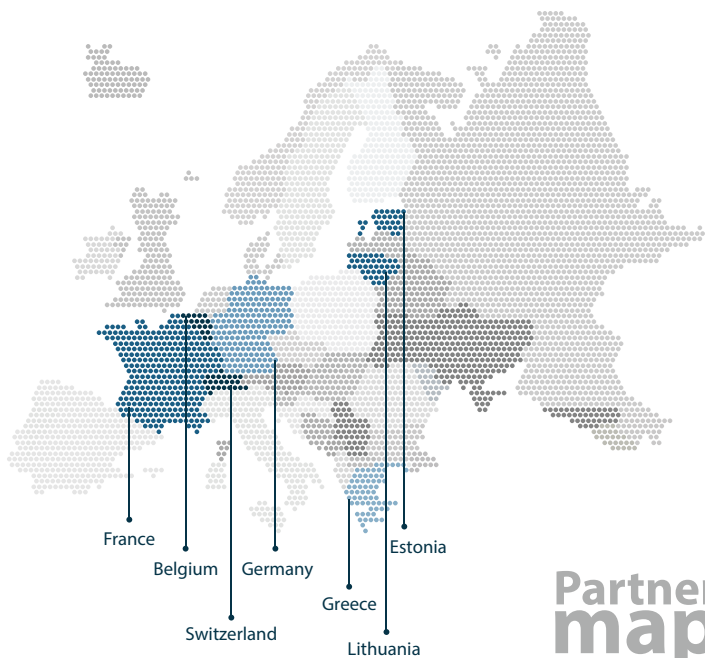
VOCORDER
will aid in detecting
early signs of

Kidney
Insufficiency

Lung
Cancer

Breast
Cancer

Colon
Cancer

Gastric
Cancer

Pneumonia

---

vocorder

Revolutionizing Healthcare Through Breath Analysis

VOCORDER aims to revolutionise healthcare monitoring by developing a portable device for early diagnosis of cancer, chronic and acute diseases in clinical practice through breath analysis.

Project overview

VOCORDER aims to create a paradigm shift in healthcare monitoring by developing a portable device for continuous assessment of health through breath analysis.

Our mission is to make health monitoring seamless and non-intrusive, empowering individuals and healthcare professionals with real-time data and proactive health management.

Our vision is to make continuous health monitoring a part of everyday life, helping in early disease detection and management. We are on a mission to create accessible, easy-to-use technology that integrates seamlessly into daily routines.

Our objective is to create a tool designed for the discreet and continuous monitoring of human health. This involves the development and implementation of a system that can consistently assess, process, and analyze human breath. The key aim is to detect early indicators of diseases, thereby facilitating timely and proactive healthcare interventions.

Strategic objectives

1. Provide a solution for easy-to-use breath analysis able to monitor the health of any individual at any setting.
2. Develop and demonstrate the beyond state-of-the-art technologies needed to implement the **VOCORDER** breath analysis apparatus.
3. Develop a health monitoring apparatus people can easily integrate into their everyday life.

Scientific and Technological objectives

1. Demonstration of QCLs and ICLs monolithically integrated arrays.
2. Integrate QCLs/ICLs arrays with MPLC components for beam combing and providing high quality beam profile.
3. Implement a detector-less sensing scheme.
4. Enable AI-based breath analysis for the identification of health conditions.
5. Implement clinical studies of **VOCORDER**.