

## Project Details

Starting date	1 <sup>st</sup> September 2023
Project duration	4 years
Coordinator	Virgilio MATTOLI
Project officer	Alina Maria TOMOIAGA
Cost	€4,158,610,00
EU contribution	€4,158,610,00

## Principal Investigators

Virgilio Mattoli	Istituto Italiano di Tecnologia
Mario Caironi	Istituto Italiano di Tecnologia
Marco Crepaldi	Istituto Italiano di Tecnologia
Serena Del Turco	Consiglio Nazionale delle Ricerche
Giuseppe Tarabella	Consiglio Nazionale delle Ricerche
Larisa Florea	Trinity College Dublin
Colm Delaney	Trinity College Dublin
Monica Mir	Institute for Bioengineering of Catalonia
Cesar Rodrigues Emmenegger	Institute for Bioengineering of Catalonia
Harald Giessen	University of Stuttgart



## CONTACTS

<https://iv-lab.eu>



# IV-LAB

**In-vessel implantable  
smart sensing device for  
personalised medicine**

HORIZON-EIC-2022-PATHFINDERCHALLENGES-01

**EIC Pathfinder  
Challenge: Towards the  
Healthcare Continuum**

European  
Innovation  
Council



Funded by  
the European Union

Project Number: 101115545

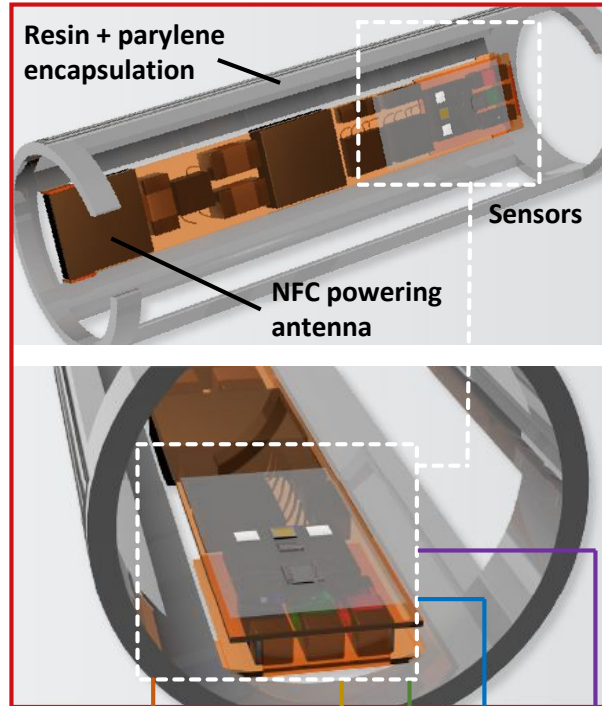
## Goal

Development of a new **multi-sensing** healthcare device, **implantable** into blood vessels for early detection and continuous tracking of hemodynamic behavior.

## Technology

**Unobtrusive** and proactive microdevice, capable of continuous measurement and monitoring of multiple specific hemodynamic biomarkers.

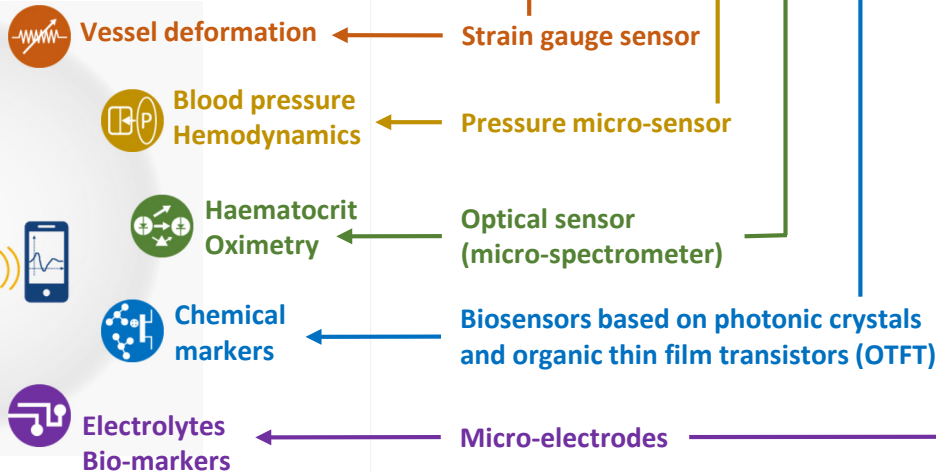
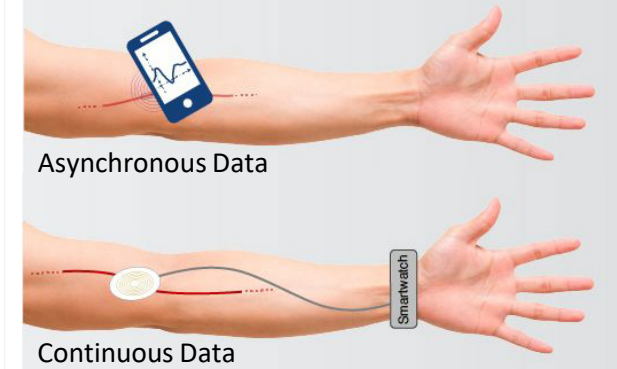
## All-in-one integrated platform



## Implantation in veins or arteries



## Remote long-term health monitoring



## Impact

- Reduce mortality and hospitalization of patients with cardiovascular disease, and improve their life quality and expectancy
- Enabling doctors to supply prompt diagnosis and tailored medical treatment.