

LEARN

FACT SHEET

Development of novel assessments for indoor air quality monitoring and impact on children's health



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Project information

Grant Agreement ID: 101057510

DOI: 10.3030/101057510

Start date: May 2022

End date: April 2026

Duration: 48 months

Funded under: Health

Total cost: € 7,550,976.25 million

EU contribution: € 7,550,974 million

Coordinator: International Iberian
Nanotechnology Laboratory (PT)

Programmes: HORIZON.2.1 - Health

Health HORIZON.2.1.2 - Environmental and Social Health Determinants

Topic: HORIZON-HLTH-2021-ENVHLTH-02-02 - Indoor air quality and health

Call for proposal: HORIZON-HLTH-2021-ENVHLTH-02

Funding scheme: HORIZON-AG - HORIZON Action Grant Budget-Based

Project consortium

International Iberian Nanotechnology Laboratory (INL)

EU contribution: € 2,185,756

Portugal [COORDINATOR]



Vrije Universiteit Brussel (VUB)

EU contribution: € 318,218

Belgium



ENVIROMETRICS

EU contribution: € 400,000

Greece



Katholieke Universiteit Leuven (KU LEUVEN)

EU contribution: € 871,500

Belgium

KU LEUVEN

Hasselt University (UHASSELT)

EU contribution: € 765,416

Belgium



MANN+HUMMEL

EU contribution: € 621,083

Germany

**MANN+
HUMMEL**

Project consortium

Nanotechnology Industries Association (NIA)

EU contribution: € 305,700

Belgium



IMEC The Netherlands (IMEC-NL)

EU contribution: € 236,305.94

Netherlands



Aarhus University (AU)

EU contribution: € 858,750

Denmark



FI Group

EU contribution: € 144,606

Spain



AlveoliX (AL)

EU contribution: -

Switzerland



Eindhoven University of Technology (TU/e)

EU contribution: € 843,639.06

The Netherlands



Project objective

The EU-funded LEARN project will develop and deploy **novel sensors** to detect the status of **air quality** and the presence of **possibly harmful air pollutants** in schools.

Specifically, it will check for **volatile organic compounds** and **ultrafine particles** and assess their impact on the **cognition of children**.

The project will use **C. elegans as a biosensor** to measure and characterise indoor and outdoor air pollutants and evaluate the presence of biomarkers of exposure.

LEARN will use **advanced human-based in vitro models of lung and skin** integrated into a revolutionary **multisensing device** to investigate their mechanisms of toxicity in real-time and explore novel remediation strategies to improve air quality and promote children's quality of life and life expectancy.

Thank you!



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learnproject-heu.eu

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