



# NextAIRE Newsletter - Launch & First Activities



## OFFICIAL PROJECT LAUNCH IN ZAGREB

NextAIRE officially launched on 11 September 2025 in Zagreb, Croatia, bringing together partners from across Europe to initiate collaboration on AI-enabled air quality research and innovation.

The two-day meeting combined the formal launch with strategic working sessions focused on AI-enabled sensor calibration and air quality modelling, planning of 48 international and cross-sectoral secondments, and work package alignment, KPIs and implementation roadmap.



Consortium partners during the official project launch in Zagreb at Institute for Anthropological Research



Consortium partners during the second day of strategic discussions at Tomislavov Dom



## JOINT WEBINAR ON AI & SENSOR CALIBRATION

On 30 January, NextAIRE co-organised a joint session within the EDIAQI Webinar Series entitled "The Promise and Perils of AI-Driven Sensor Calibration and Smart Ventilation Management."

The session explored how AI and machine learning can improve calibration of low-cost indoor air quality sensors, while addressing uncertainty, transparency and regulatory considerations.

**Prof. Tareq Hussein – Professor of Atmospheric Sciences, University of Helsinki**

**Maria Figols – Chief Scientific Officer, inBiot Monitoring SL**

**Valentino Petrić – Senior Data Scientist at Smart Sense; AI Researcher at the Lisbon Council; PhD candidate at the University of Zagreb**

**Jurgo Preden – CEO, Airi Systems, Tallinn, Estonia**

### SPEAKERS INCLUDED:

THE DISCUSSION REINFORCED THE IMPORTANCE OF SCIENTIFIC VALIDATION, EXPLAINABILITY AND RESPONSIBLE AI DEPLOYMENT IN SMART VENTILATION AND IAQ SYSTEMS.

EDIAQI WEBINAR SERIES

## The Promise and Peril of AI-Driven Sensor Calibration and Smart Ventilation



FRIDAY  
30 JANUARY



TIME  
10:30 AM CET



EDIAQI Evidence Driven Indoor Air Quality Improvement



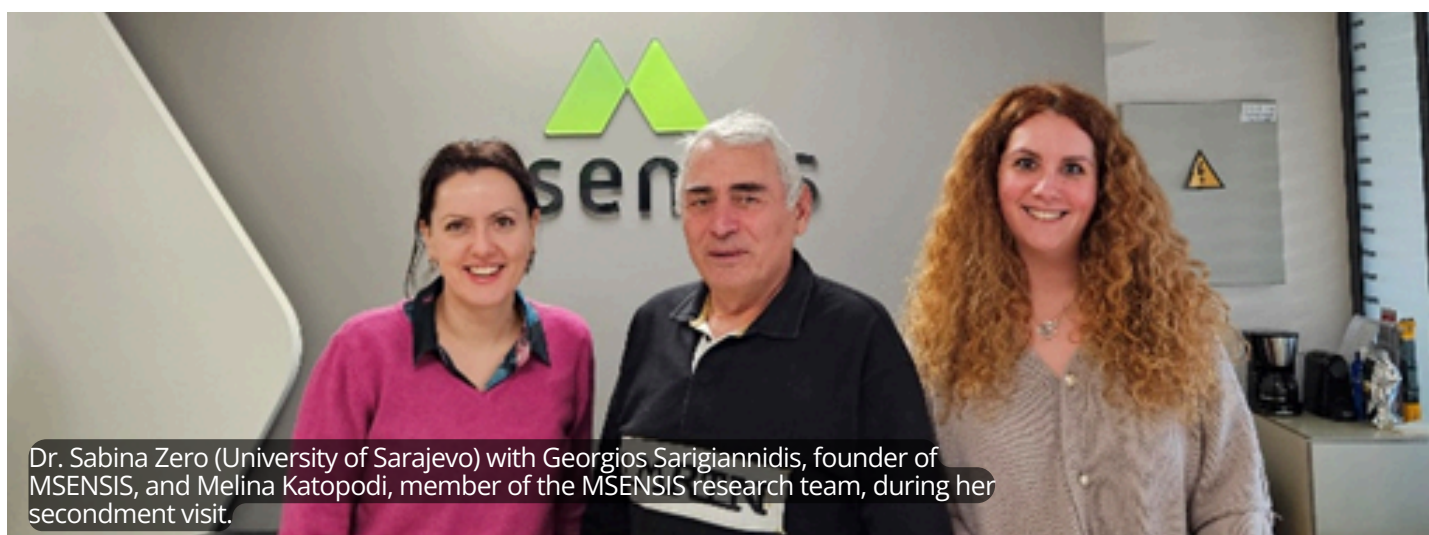
## RESEARCH & MOBILITY

Research and mobility activities within NextAIRE are now underway.

The first secondment has officially taken place with the visit of Dr. Sabina Zero (University of Sarajevo) to MSENSIS, strengthening collaboration between partners and supporting knowledge exchange on air quality monitoring and data analytics.

During her secondment, Dr. Zero worked with the MSENSIS team on air pollution monitoring in Sarajevo, combining chemical analysis with AI-based data processing and modelling.

"During my secondment, I expanded my professional skills by combining my background in chemistry with applied AI technologies. Working with the MSENSIS team gave me valuable insight into how research data can be processed and transformed into useful analytical outputs."

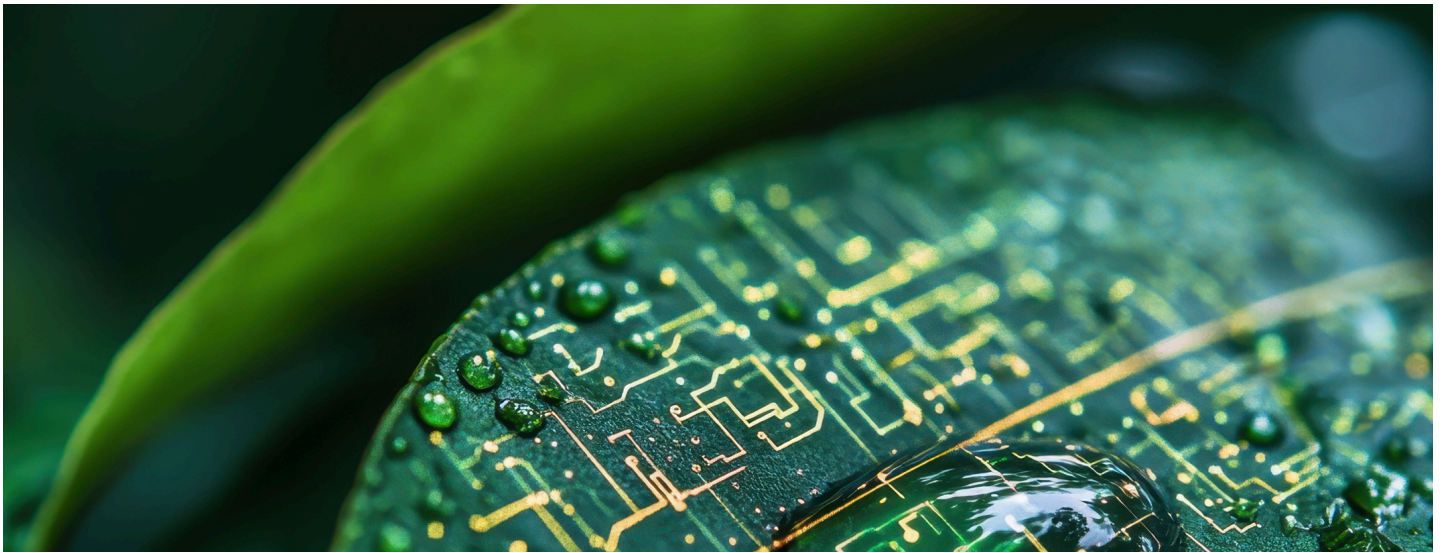


Dr. Sabina Zero (University of Sarajevo) with Georgios Sarigiannidis, founder of MSENSIS, and Melina Katopodi, member of the MSENSIS research team, during her secondment visit.

During her stay in Greece, Dr. Zero also had the opportunity to visit NCSR Demokritos, a NextAIRE partner organisation collaborating with MSENSIS on environmental measurements, sensor technologies and modelling applications.



Dr. Sabina Zero with Manos Manousakas during her visit to NCSR Demokritos.



In parallel, two peer-reviewed scientific publications linked to NextAIRE have already been published, marking important early milestones in the project's research work.

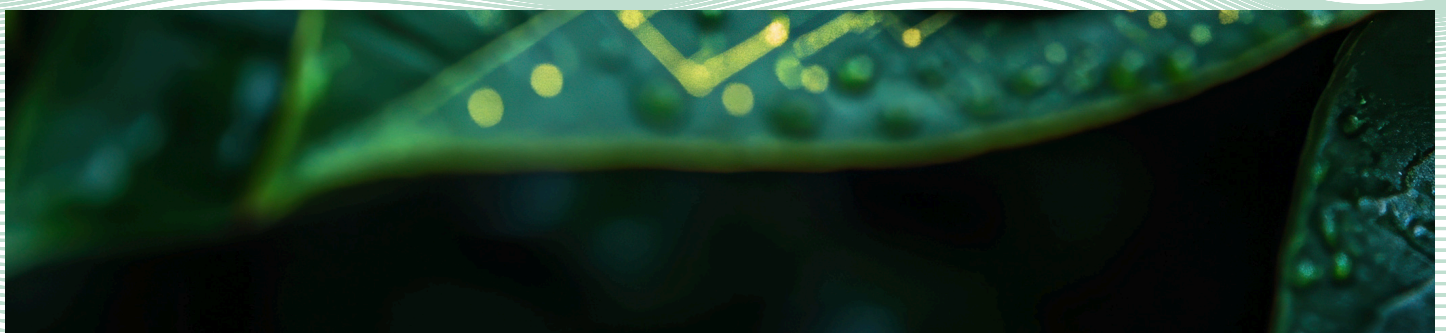
### **SEASONAL CO<sub>2</sub> PATTERNS IN SCHOOLS USING SENSORS AND ML**

One publication, in [Atmosphere \(2026\)](#), examines seasonal and regional variations in indoor CO<sub>2</sub> concentrations in Croatian schools using large-scale sensor networks and machine learning, highlighting the role of accurate calibration and detailed monitoring in vulnerable environments.

### **IMPROVING AIR QUALITY SENSORS WITH MACHINE LEARNING**

Another article, published in [Aerospace \(2025\)](#), explores AI-assisted data fusion and modelling approaches for air quality assessment, demonstrating how combined sensor analytics and machine learning can enhance predictive capabilities in real-world monitoring systems.

These outputs reinforce the scientific impact of NextAIRE's research agenda and contribute to advancing knowledge on AI-driven air quality technologies.



# PROJECT FACTSHEET RELEASED

The first [NextAIRE factsheet](#) has been published, presenting the project's objectives, partnership structure (16 partners from seven countries), secondment programme and research focus.



## Next Generation Artificial Intelligence Researchers for Air Quality Excellence

### Project Objective:

NextAIRE focuses on empowering European Research and Innovation talents in air quality monitoring through cross-sectoral training, artificial intelligence-driven innovation, and international collaboration, with a strong emphasis on Widening countries\*.

\*Widening countries: EU Member States with lower R&I performance receiving targeted support under Horizon Europe

## STAY CONNECTED

Follow NextAIRE and stay informed about research progress, mobility activities and upcoming dissemination events:



Website: <https://nextaire.eu/>



LinkedIn: <https://www.linkedin.com/company/project-nextaire-horizon-widera/>

**More updates coming soon.**



**Funded by  
the European Union**

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