

## HOSPITAL PARTNERS:

- **Bank of Cyprus Oncology Center**



Credits: Bank Of Cyprus Oncology Center

Located in Nicosia, the Bank of Cyprus Oncology Center specializes in the diagnosis and treatment of cancer.

- **Szent Damján Kórház**



Credits: Szent Damján Kórház

Szent Damján Kórház, located in Kiskvárda, Hungary, is offering a variety of clinical and healthcare services.

- **Careggi Hospital**



Credits: PIETRO SAVORELLI

Careggi University Hospital is one of the main healthcare and research centers in Florence and the wider Tuscany region.

- **Nikosia General Hospital**



Credits: knowyourdoctor-cy

Nikosia General Hospital is the largest and most advanced hospital in Cyprus, providing specialized and comprehensive healthcare as the country's only quaternary care center.

- **St. Rafael Hospital**



Credits: e-city.hu

St. Rafael Hospital, located in Zala Coynty, Hungary, offers comprehensive healthcare through 11 central departments dedicated to diagnosis, therapy, and patient care.



Official Website:

[www.conquair.eu](http://www.conquair.eu)



Social media:

LinkedIn



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## CONQUAIR PROJECT

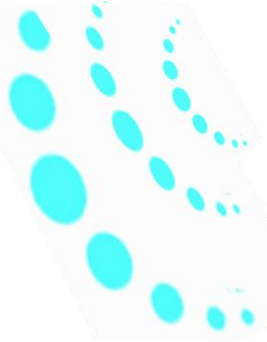
### ICT Applications to CONquer Optimal Quality of AIR in Long-Term Care Settings

The CONQUAIR project is an ambitious initiative designed to transform air quality management in healthcare environments. Launched in September 2024 and supported by "Eureka-Eurostars," this innovative two-year collaboration brings together **EMBIO Diagnostics** (coordinator, Cyprus), the **University of Florence, Class Srl** (Italy), and **Resysten Kft** (Hungary).



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# PROJECT IMPORTANCE

## Key Statistics:

- Indoor air pollution contributes to **2.7% of all diseases worldwide.**
- **92% of the global population** is exposed to pollutant levels exceeding WHO recommendations.
- Over **3.2 million patients** in the EU acquire infections in healthcare settings annually, leading to **37,000 direct deaths.**

## PROJECT IMPACT

### Expected Benefits:

- Enhanced air quality in healthcare facilities
- Reduction in healthcare-associated infections
- Increased protection for staff and patients

CONQUAIR's impact extends to **nursing homes, offices, schools, and other shared spaces**, making air quality management more accessible and efficient.

## DEVICES:



**airbeld™ Eos** with its powerful sensors and proprietary algorithm, provides real-time understanding of indoor pollutants and helps take informed decisions to sustain a healthy and comfortable environment.



**airbeld™** system is an integrated, cost-effective monitoring system designed to assess **Indoor Air Quality (IAQ)** and promptly detect and report hazardous incidents that directly impact health and well-being.



**Resysten®** hygiene coating technology binds at a molecular level to any surface creating uninhabitable conditions for biological contaminants to survive. **Anti-viral** – Proven to kill (GLP lab tested) SARs CoV1, SARs CoV2, Ebola, HBV, etc. **Anti-microbial** Proven to kill (GLP lab tested) hospital superbugs, MRSA, etc. **Anti-fungi, Anti-mold Anti-odor.** The **Resysten® Clean Air coating** actively breaks down airborne pollutants, reducing the concentration of harmful compounds and allergens, thereby contributing to cleaner and healthier indoor air.



## MAIN OBJECTIVE:

To develop cutting-edge ICT solutions ensuring optimal air quality in long-term care facilities.

## Challenges Addressed:

- Indoor air pollution
- Airborne pathogens
- Inadequate ventilation
- Poor hygiene practices
- Lack of advanced monitoring systems